Sub-Slab Depressurization System (SSDS) Expansion Fact Sheet

LOCKHEED MARTIN

September 2021

1111 Marcus Avenue
Great Neck, New York

As a result of historical defense and industrial operations at 1111 Marcus Ave. in New Hyde Park dating back to World War II, contaminants are present in the groundwater, soil, sediments, and soil-vapor beneath the buildings' foundations. Lockheed Martin has been responsible for the site's environmental remediation since purchasing the site in 1996. Environmental investigations began in 1978 under prior ownership.

The volatile organic compounds (VOCs) found in the groundwater beneath the main building can readily change from a liquid to a vapor, much like how water evaporates. To remove the potential for these vapors to affect indoor air quality by traveling through the foundation, Lockheed Martin began construction of a sub-slab depressurization system (SSDS) in 2011 and began continuous operations in 2013.

Sub-slab depressurization systems use a vacuum technology. The air and vapors beneath the building are collected from vapor extraction points beneath the foundation slab and are then carried through a closed piping system to a treatment system. The treatment system is located in the garage south of the main building on the property. More information on the vapor collection and treatment system is available at: https://www.lockheedmartin.com/content/dam/lockheed-martin/eo/documents/remediation/great-neck/vapor-intrusion-program-2020.pdf

Lockheed Martin conducts quarterly monitoring to confirm the vacuum pressure is maintained under the slab. Vacuum monitoring at strategic points inside the main building provides continuous information about the effectiveness of the vacuum system.

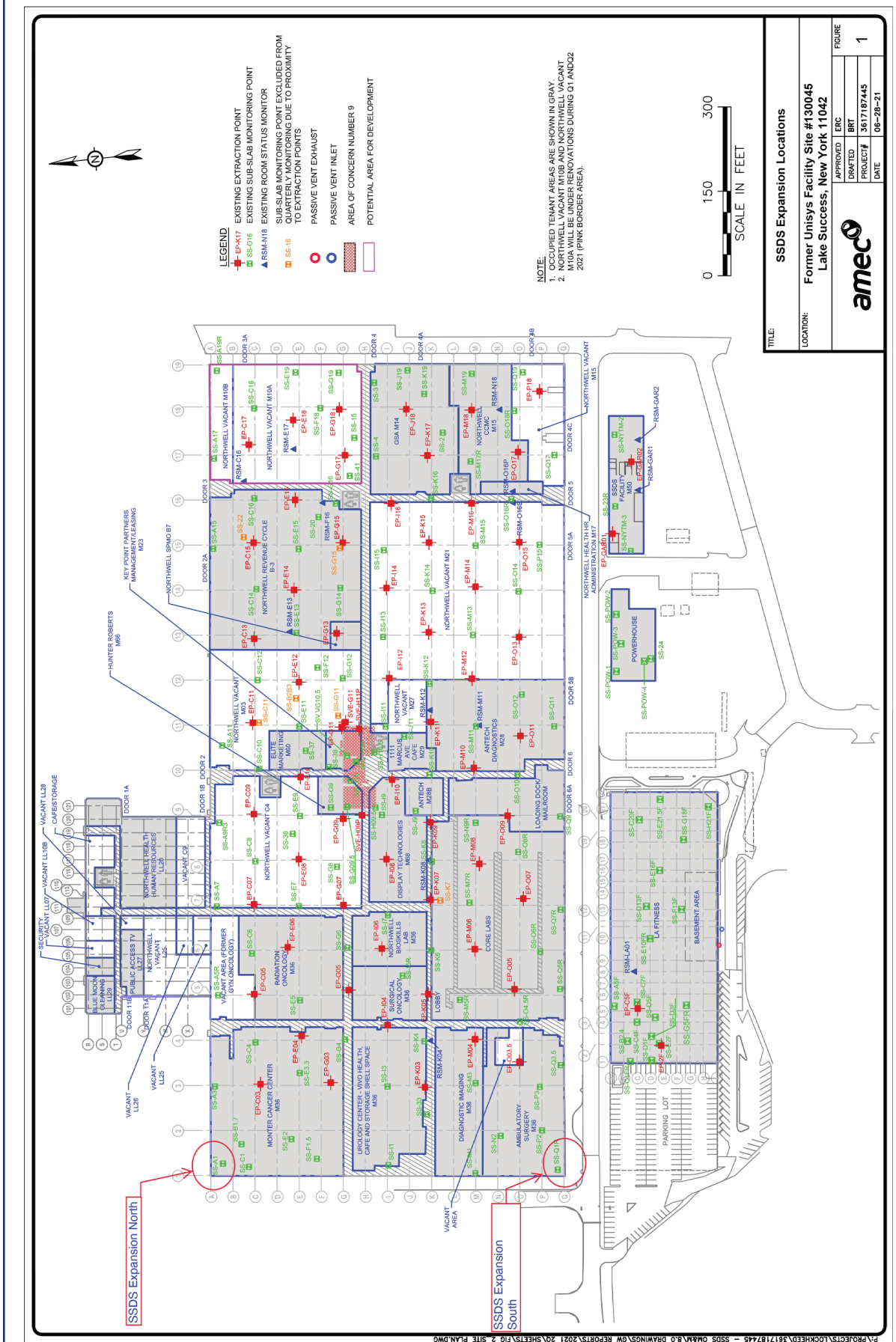
Two monitoring points, one in the northwest and one in the southwest corner of the main building, have shown vacuum readings that have intermittently failed to meet the differential pressure criterion. While this does not indicate indoor air concerns, in an abundance of caution, additional protective measures are being taken. At the direction of the New York State Department of Environmental Conservation and the New York State Department of Health, Lockheed Martin contractors will install two new extraction points to increase the vacuum conditions in these two far corners (shown in graphic on page 2).

Construction of the two new extraction points will begin in September and is expected to continue through Thanksgiving 2021. The two extraction points will be installed horizontally from the exterior through the foundation wall just below the building slab. Piping from each extraction point will extend up the outside of the building and then extend horizontally on the building roof to connect to the existing SSDS piping. The piping re-enters the building and ties into the existing SSDS.

Excavation activities and lifting materials to the roof will occur overnight. Construction on the rooftop and in the unoccupied areas of the building will occur during normal business hours (7 am to 3 pm). During the overnight excavation activities, the roadway immediately west of the building will be reduced to one lane (as shown in graphic on page 3). Overnight activities will occur from 7 pm to 6:30 am at the northwest corner and 7 pm to 5:30 am at the southwest corner.

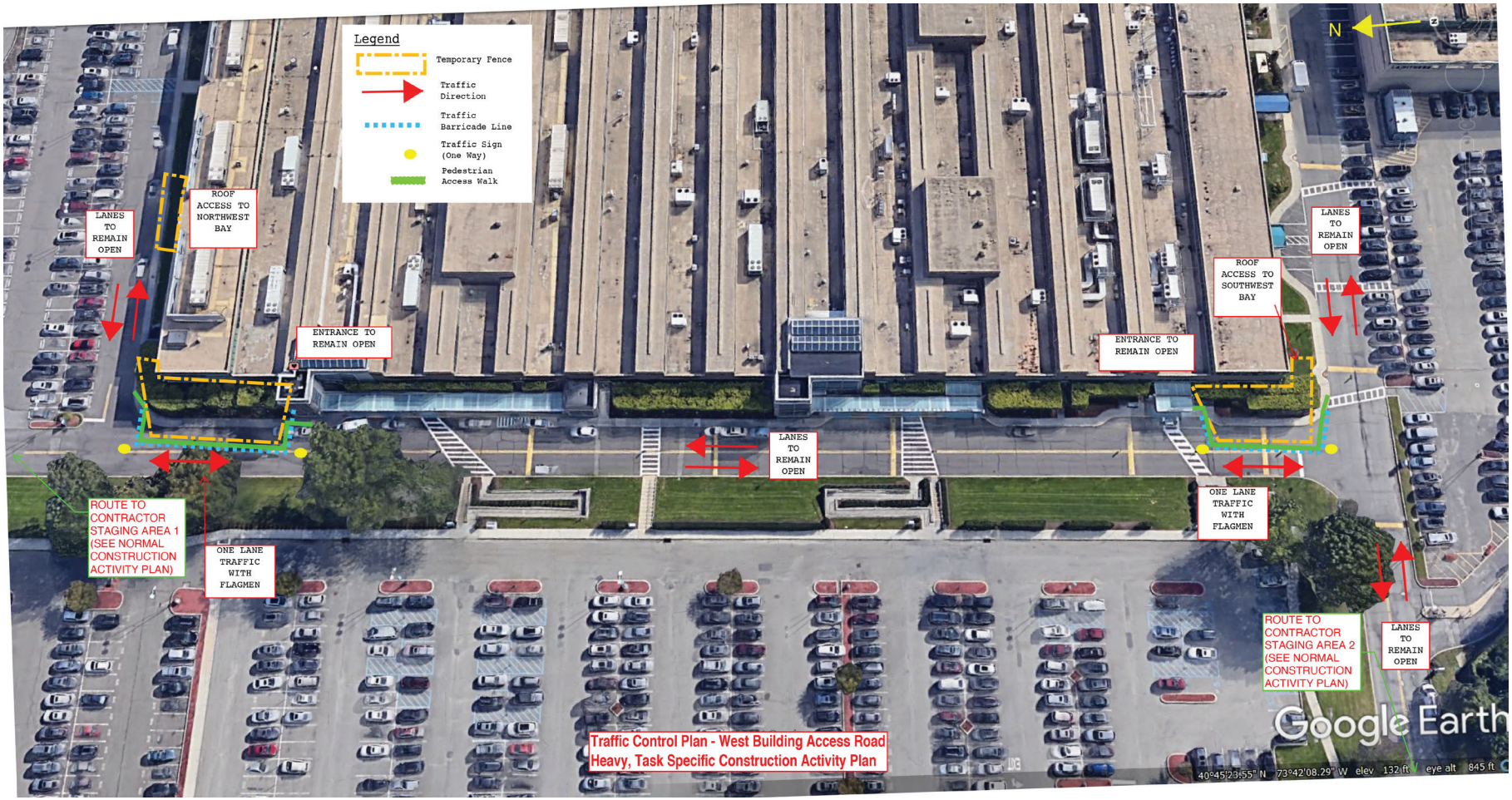
Additional information on all remediation aspects can be found at the Lockheed Martin website: www.lockheedmartin.com/greatneck. For questions or concerns, please contact Lockheed Martin Communications at 800-449-4486.

Extraction point installation and excavation activities as well as materials lifting will occur in off-business hours, at night, to limit impacts to building operations. Work conducted during business hours should not impact visitors and workers.



Two new extraction points are being constructed in the far northwest and southwest corners of the building (shown in red circles). Vapors collected from beneath the building at these new points will be piped along the roof to connect to existing sub-slab depressurization system piping and routed to the treatment system located in the garage southeast of the building.

Two new extraction points are being constructed in the northwest and southwest corners of the building (shown in yellow dashed lines – north is on the left side of this figure). Efforts are being made to limit impacts to visitors and workers. Material staging areas are shown in yellow on the far left (north) and lower right (southwest). All walkways and entrances will remain open during business hours.



Extraction point installation and excavation activities as well as materials lifting will occur in off-business hours, at night, to limit impacts to building operations. Traffic will be reduced to one-lane only during those times. One-lane traffic signs and flagmen will be utilized at each end of the one-lane section to facilitate the safe flow of traffic.