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Van Wyck Expressway Capacity Improvements

► The Van Wyck Expressway (I-678) is a vital corridor which provides access to and from John F. Kennedy (JFK) International Airport in Queens, NY. JFK is the busiest international air passenger gateway into North America, the 21st-busiest airport in the world, the sixth-busiest airport in the United States, and the busiest airport in the New York airport system, having handled just over 61 million passengers according to the most recent data. The Van Wyck Expressway also serves as the major route for commercial truck traffic to access the airport, with trucks accounting for eight percent of the morning peak volume and five percent of the evening peak volume on I-678.







Hayduk Engineering hosted its' Annual Holiday party in conjunction with the Long Island Builder's Institute at Villa Lombardi's in Holtsville. The event featured casino table games and gambling with "funny money" for raffle tickets to enter the Chinese auction. At our table of thirty, our team won not one, but two snow blowers and an electric fireplace! Thank you everybody for joining in the holiday fun, we had a blast.

A MESSAGE FROM THE PRINCIPAL

Hayduk Engineering Prevails During COVID-19 Pandemic

On March 9th Hayduk Engineering issued our Coronavirus Policy Guidance to all employees. By the end of that week we had begun the first stages of implementing a Remote "Work-from-Home" program. We had also begun, several weeks earlier, developing provisions for remote access to each employee's desktop office computer from their respective homes. Therefore, when the time was upon us, we were already fully prepared, and all work and projects proceeded unimpeded by the National Emergency.

Governor Cuomo's Executive Order 202, as amended, provides that the construction industry, including contractors, consultants, construction management firms and material suppliers are exempt from reduction in workforce requirements. According to the Long Island Builders Institute, the Empire State Development Corporation has advised that the designation of "construction" as an essential service applies to "all construction."

New York State and more specifically Long Island and Suffolk County (our home base) have been considered the hotspots of the nation, "ground zero," so-to-speak, for the pandemic. But our proactive approach to this situation has enabled Hayduk's performance to continue in the same fashion that our clients have become accustomed to, without interruption. No employees have been furloughed or laid off; in fact, we have increased our staff during this difficult time. It was and continues to be our intention to prevail over the Coronavirus and for our employees and our clients not to suffer undue stress or hardship as a result thereof. We encourage safety first and foremost, and we actively provide for same with our people as part of this policy.

With the continued teamwork among Hayduk Engineering management, our employees, our clients and regulatory agencies, I have every confidence that we will come through this together and all be stronger when we emerge. I am very proud to be the leader of a fine group of dedicated technical and professional people and to serve our clients and the public diligently and professionally both now and going forward as well.

Stephen G. Hayduk, P.E.

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Van Wyck Expressway Capacity Improvements continued

New York State Department of Transportation is implementing a \$1.22 billion design/build project to widen the Van Wyck Expressway. The purpose of the project is to provide increased vehicular capacity on the VWE between the Kew Gardens Interchange and JFK Airport. In addition, the project will address operational, geometric, and structural deficiencies on the VWE between the Kew Gardens Interchange and JFK Airport.

The VWE corridor that will be affected by this project is approximately 4 miles in length and impacts not only the main line but also the northbound and southbound service roads. A major component of this project is the development of an additional fourth lane that will function as a Managed Use Lane (MUL). The MUL will accommodate commercial and high occupancy vehicles.

The project is complicated by the limited available right-of-way and the presence of the AirTrain located in the center median for most of the project corridor which transports commuters from the LIRR Jamaica Station to JFK Airport. Much of the VWE in this section is also depressed with tall retaining walls on either side supporting the service roads and buildings above.

There are twentytwo (22) bridges along this corridor that will be impacted by the MUL and other infrastructure improvements. One of these structures is a major railroad bridge west of the Long Island Railroad (LIRR) Jamaica Station which carries trains into Manhattan. Each of the impacted structures will either be modified, rehabilitated, or replaced to facilitate the project. An additional bridge will also be constructed.

Hayduk Engineering, LLC worked as a subconsultant to WSP, who was responsible for completing the Draft and Final Environmental Impact Statements for the project (DEIS/ FEIS). The DEIS and FEIS deliverables

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New York State Department of Transportation is implementing a \$1.22 billion design/build project to widen the Van Wyck Expressway

incorporated preliminary design plans prepared to 30% complete.

Our scope of services on this assignment included the development of a feasibility study to evaluate alternatives to build either a flyover bridge or tunnel at the LIRR Jamaica Station structure for the proposed Managed Use Lanes. In addition, we performed preliminary engineering for the design of all southbound service road improvements, stormwater modeling of existing and proposed conditions using HydroCAD, engineering design of additional drainage structures on the VWE mainline, engineering design for the replacement of all overhead sign structures along the VWE mainline and cost estimating services. The FEIS was completed in August 2019 and the design-build contract procurement began in August 2019 with a contract award anticipated for early 2020.

MacArthur Industrial Sewer District

Suffolk County Department of Public Works (SCDPW) retained Hayduk Engineering, LLC to develop a new sewer district, or sewer district extension, to service the industrial area surrounding and including the Long Island MacArthur Airport in the Town of Islip, New York. Suffolk County and the Town of Islip have identified this region as having high redevelopment potential if public sewers were made available. Several high profile redevelopment projects are already in progress in the area adjacent to the Long Island Railroad (LIRR) Ronkonkoma Train Station, including the Ronkonkoma Hub project Transit Oriented Development (TOD) and the Ronkonkoma Vision Project. The redevelopment potential for this region is primarily focused on the availability of mass transit via the LIRR, proximity to two (2) major highways including the Long Island Expressway (I-495) and Sunrise Highway (NY-27), and the presence of the airport.

Approximately 75% of Suffolk County is currently unsewered. This project is one of several large scale regional sewer projects that are being implemented by Suffolk County, the first of their kind in many decades. The primary goals of the sewer projects are to:

- Improve surface water and groundwater quality by eliminating septic systems via consolidating sewer discharges to wastewater treatment facilities.
- Spark economic growth by allowing for higher density development of under-utilized properties via the availability of public sewers.

The scope of this project includes the engineering design of the main conveyance infrastructure for the MacArthur Industrial Sewer District. Currently, this includes the design of a 4,000 linear foot (LF) 12" diameter interceptor sewer, an equalization tank/pumping station with a design capacity of approximately 1.15 million gallons per day (average daily flow) featuring screening facilities, three (3) 30 horsepower equalization station pumps, diffused aeration system, emergency power generation facilities, control building, valve chamber, flow metering facilities, 10,000 linear feet of dual force mains, and a low pressure sewer system to potentially service a small out-of-district commercial area.

SELF-STORAGE DEVELOPMENT BOOM



► The self-storage real estate industry continues to expand its growth on Long Island with the design and construction of several new facilities. Due to the presence and development of smaller multifamily rental units, more and more L.I. residents are availing themselves of rental storage spaces and the selfstorage development market is rushing to meet the demand.

Hayduk Engineering recently completed this 5+ acre, 90,000 SF Public Storage facility project located on Middle Country Road in Middle Island, NY. Since the facility was occupied in May 2019, it has become one of the most successful self-storage facilities in the area. Hayduk Engineering was responsible for civil and site engineering for the project including; RPZ and water distribution system design, on-site sanitary sewers and septic system design, site grading and storm drainage, 3d earthwork modeling and cut/fill analysis, parking lot and pavement design, erosion and sediment control design, site lighting design, preparation of a Stormwater Pollution Prevention Plan, and landscape design.

NEW HIRES



Sundeep Singh, I.E. Staff Engineer II



Herging Victor Construction Inspector (NICET II)

OTHER

COMPANY NEWS

Timothy Shaw Office Engineer (NICET IV)

RECENT CONTRACT AWARDS

PRIME

Town of Smithtown Long Beach Road Reconstruction, Highway

Design, Civil Engineering, Survey, and Environmental Services

PRIME

Suffolk Regional Off Track Betting Corp. OTB Medford, Site Planning, Wastewater Engineering Services

SUB

MTA Bridges & Tunnels

Throgs Neck Bridge Tower Fender Protection – Civil and Structural Engineering and Inspection services

S U B

SUNY Stony Brook

Tabler Quad – Storm and Sanitary Sewer System Capacity Analysis

▶ A N N O U N C E M E N T S

Stephen A. Hayduk received 2019 Rising Star Award and was elected as Board Director by NYWEA L.I. Chapter at the 2019 Election Dinner on December 17, 2019.

Philip J. Prendergast obtained his ACI Grade I certification.

