

► On August 1, 2023 the Village of Islandia approved the Final Site Plan for the proposed Jake's 58 Casino Expansion project. Hayduk Engineering has been working on this project as the lead civil engineer since 2019 for Suffolk Regional Off Track Betting Corporation (OTB). The project proposes to expand the existing Jake's 58 facility by introducing a 110,500 SF building addition to house an additional 1,000 Video Lottery Terminals (VLTs), restaurants, bars, an ultra-lounge, convention area, and office spaces. The project also

Jake's 58 Expansion Project



Renderings courtesy of BLD Architecture, DPC, the Project Architect

Summer 2023 NEWSLETTER

- **Jakes 58 Expansion Project**
- **Woodhaven Center of Care SD#11 Connection**



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Hayduk Engineering listed as one of the
Top 100 Design Firms in NY/NJ by Engineering
News Record for the **3rd year in a row!**



Jake's 58 Expansion Project continued

includes the renovation and remodeling of existing spaces within the existing Jake's 58 facility and a new 168,000 SF parking garage.

The site work for the project includes the expansion of the property from 7.9 acres to 12.52 acres located on the east side of Bedford Avenue and the construction of 3 new satellite parking lots on 5.26 acres on the west side of Bedford Avenue. A total of 1,989 parking stalls will be provided with the new expanded facility, including a combination of self-park, valet service, handicapped-

accessible, structured parking, and Electric Vehicle (EV) dedicated stalls. Improvements along Bedford Avenue and the Long Island Expressway North Service Road are also provided as part of the project.

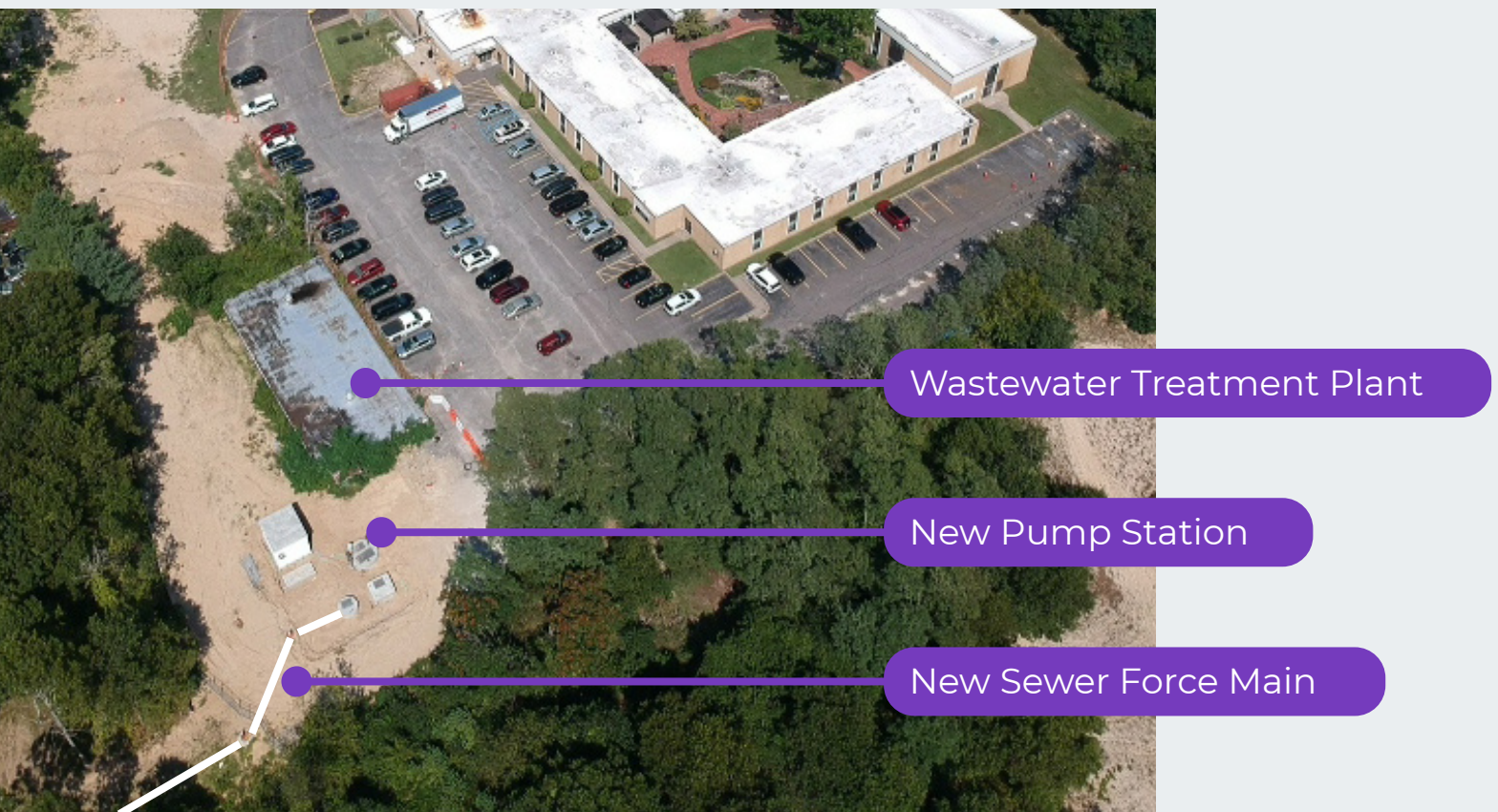
A major component of the civil engineering design for the project included the design of over 1,700 linear feet of retaining walls and a new 10' tall screen wall atop the proposed retaining wall along the eastern property line of the Jake's 58 site. Several sections of the new retaining walls are over 17' tall and were designed using a steel H-pile supported precast concrete panel system,

as well as segmental gravity retaining walls.

Phase 1 of the project includes the construction of the 3 satellite parking lots and is in construction, while Phase 2 is currently in the bidding process. Hayduk Engineering is continuing to assist SROTBC through the bidding and construction phases of the project, including weekly Stormwater Pollution Prevention Plan (SWPPP) inspections and compliance during construction. Stay tuned for construction progress updates as the project progresses! ■



Woodhaven Center of Care Sewer Connection



► The Woodhaven Center of Care is an existing adult home and assisted living facility located in Port Jefferson Station, NY. The property features two parcels; one containing the adult home and the other containing the assisted living facility. Both buildings are serviced by a Wastewater Treatment Plant (WWTP)

with an original design capacity of 30,000 gallons per day (gpd), average daily flow. The original facility was built in the 1970's and was designed to provide secondary treatment only; it does not have the ability to provide tertiary treatment (nitrogen removal). Several years ago, the Owner was

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required to replace the existing WWTP to bring it into compliance with current nitrogen removal requirements.



Hayduk Engineering, LLC has been the Engineer of Record for this facility since 2010 and has been involved in several different iterations of design projects for the WWTP, which at various stages included an expansion to 70,000 gpd, 125,000 gpd, and 250,000 gpd. The 250,000 gpd design was intended to be a sub-regional facility that would be taken over, owned, and operated by Suffolk County Department of Public Works. After several meetings with local civic groups, this approach was

abandoned and the design flow of the replacement WWTP was ultimately intended to provide for the existing facilities and connection of a few nearby parcels, with a design capacity of 70,000 gpd.

The proposed replacement WWTP iterations were all designed utilizing the Xylem/Sanitaire Intermittent Cycle Extended Aeration System (ICEAS) Sequencing Batch Reactor (SBR) process technology with fine screening and polishing filters. The new replacement WWTP was planned to be constructed directly adjacent to the existing facility within the future expansion area provided with the original design of the facility. Upon nearly receiving approval of the Engineering Design Report for the proposed 70,000 gpd facility, it was discovered that the Selden Sewer District (Suffolk County Sewer District #11) had recently completed a stress test which resulted in additional capacity becoming available for out-of-district connections. Woodhaven

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Hayduk Engineering has been recognized as a “**Hot Firm**” by Zweig Group for the **2nd year in a row**. The Hot Firms list identifies the **100 fastest growing firms in the Architecture, Engineering, and Construction Industries in North America**.





Hayduk Engineering is a Reader Rankings winner in the category for **Best Engineering Firm** by Long Island Business News for the **3rd year in a row!**

Woodhaven Center of Care Sewer Connection continued

applied for connection and received approval from the Suffolk County Sewer Agency.

The current project includes the construction of a new sewage pumping station containing a submersible duplex pumping system with level controls, a valve chamber, flow meter pit, control building, emergency generator, and a 7,000 linear foot force main connection to SCSD #11. The existing WWTP and leaching field will be abandoned, and new sewer laterals will be constructed on site to connect the existing buildings to the pumping station. The project is also required to provide various site improvements pursuant to the requirements of the Town of Brookhaven.

As a condition of connection to Sewer District #11, Hayduk Engineering was required to complete a hydraulic analysis of the sewer collection

infrastructure downstream of the proposed connection point. As a result, we discovered that Pump Station #15 required upgrades, which includes replacement of pumps, piping, valves, and controls.

The project is currently in the construction phase and is expected to be completed by the end of the year. Adjo Contracting Corp. is the Contractor and Hayduk Engineering is providing Construction Administration Services. ■



Newly resurfaced Bicycle Path in Port Jefferson Station, resurfaced due to sewer force main construction



Woodhaven Pump Station site, under construction



► Announcement

Daniel J. Stahl, P.E. obtained his Revit certification from Autodesk. Congratulations!

► We're Hiring

Hayduk Engineering is seeking to fill a limited number of key management-level and senior engineering positions in our Civil/Site, Transportation, Wastewater Engineering Divisions, as well as several bridge and tunnel inspection and construction inspection positions. Please contact Stephen A. Hayduk, P.E. at sah@haydukengineering.com for more information.

► New Hires

Tamir Awad
Assistant Team Leader

Christian Baird
Staff Engineer

Bernard Boampong-Appiah
Assistant Team Leader

► Recent Contract Designations

Prime

LA Fitness Wastewater Treatment Plant Flow Study, Port Jefferson Station, NY

Wastewater engineering services

Self Storage Facility, Riverhead, NY

Civil/site engineering services

Town of Southampton - Hampton Bays Sewer Planning Study

Wastewater engineering services

9 Brothers Building Supply New Showroom, Riverhead, NY

Civil/site engineering services

Village of Port Jefferson - Downtown Walkability Study

Transportation engineering services

SUNY Stony Brook University Civil Retainer Contract

Civil/site engineering services

Sub

MTA C&D Cross Bay and Marine Parkway Bridges Design-Build

Transportation engineering services

MTA C&D Power Redundancy at Bronx-Whitestone Bridge and Verrazano-Narrows Bridge

Electrical engineering services

PANYNJ - Outer Bridge Crossing Structural Rehabilitation

Transportation engineering services

NYSEFC - Municipal Sewage System Asset Management Program

Wastewater engineering services

MTA C&D - Biennial Inspection of the Bronx-Whitestone Bridge, Queens-Midtown Tunnel, Hugh L. Carey Tunnel, Cross Bays Bridge, Marine Parkway Bridge, and Throgs Neck Bridge

Structures inspection services

NYSDOT - Region 10 Drainage Enhancements

Civil engineering services



HaydukEngineering.com 631-476-0600