TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS

PROJECT NAME:	**ADS PROPERTIES CAR WASH**
PROJECT NO.:	**2021-04**
PROJECT LOCATION:	**SECTION 95, BLOCK 1, LOT 14.1**
REVIEW DATE:	**30 DECEMBER 2021**
MEETING DATE:	**6 JANUARY 2021**
PROJECT REPRESENTATIVE:	**PIETRZAK & PFAU**

1. Status of any review by the New York State Department of Transportation should be received.

2. The applicants are apparently proposing a right turn lane be constructed along the property frontage. Review of this turn lane by Creighton Manning as well as DOT should be provided.

3. The applicant has submitted information regarding technology proposed to be utilized to address stacking of vehicles on the site. This information should be reviewed by the Planning Board and Creighton Manning.

4. The applicants have received variances required from the ZBA.

5. City of Newburgh Flow Acceptance letter has been received dated 12 November 2021.

6. The applicants have referenced receipt of an Orange County Planning Department review letter dated 2 December 2021. This office has not received a copy of that. Planning Board should address any substantive comments received from the County.

Respectfully submitted,

MHE Engineering, D.P.C.

Patrick J. Hines
Principal

PJH/kbw

NEW YORK OFFICE
33 Airport Center Drive, Suite 202, New Windsor, NY 12553
845-567-3100 | F: 845-567-3232 | mheny@mhepc.com

PENNSYLVANIA OFFICE
111 Wheatfield Drive, Suite 1, Milford, PA 18337
570-296-2765 | F: 570-296-2767 | mhepa@mhepc.com

James VanDerWiele
Sergeant Sudz, LLC
Montgomery, NY 12549

Re: Automated Stacking

James,

Helios Engineering is pleased to present the following information for your review and consideration. The letter details the proposed topic of automated vehicle stacking.

Automation & Engineering

PLC, HMI, and SCADA systems

2D&3D AutoCAD

24/7 Remote Support

General Information

Utilizing an electrical automation system, the car wash automated stacking can alter as needed. Sensor detection would look for vehicles in specific locations. As the overall number of cars stacked in location increases the conveyor system can proportionally increase as needed through the control of the conveyor's variable frequency drive (VFD). Using a PLC in conjunction with the system's components would allow for different stacking plans and altering the conveyor speeds to match.

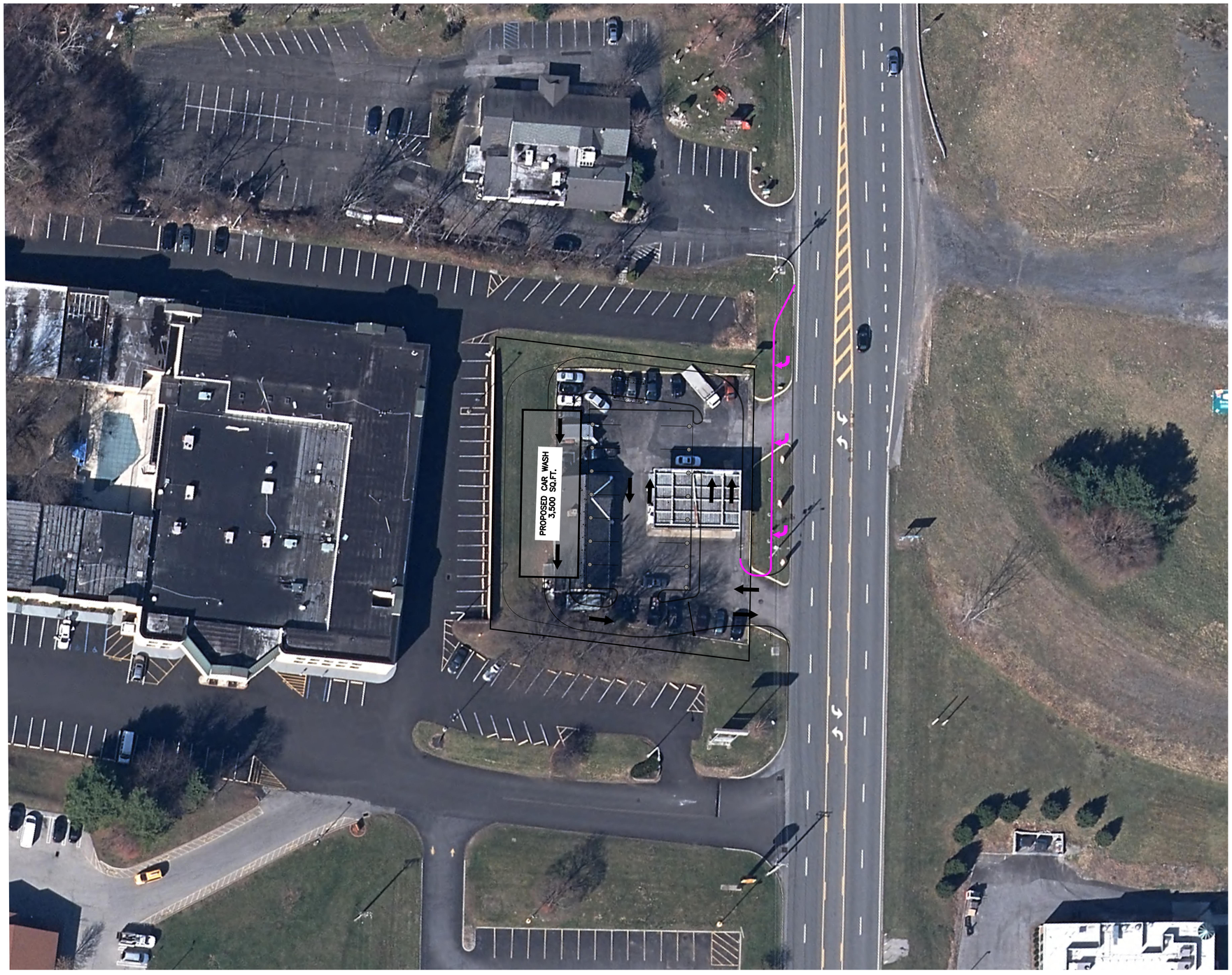
Alternative stacking plan:

- Internal PLC timer based off of signal from last loop triggered
- Exit gate and vacuum area gate can open in accordance with the trigger and timer
- A digital sign or light stack can be controlled to redirect the flow of traffic
    - Sign can be a simple 'on/off' control, or multi-colored light stack that follows a detailed stacking order
- Text and/or emails can be generated to notify the necessary individuals the status
    - Can be integrated at all WashCo sites
    - Allows everyone to have immediate notification for ongoing changes
        - Texting and email services require network connectivity to the electrical control system's PLC

General Conditions

The system can be coupled with a human machine interface (HMI) that would allow specific operators to change the stacking plan timers if necessary. This can be secured by requiring a password access input before any alterations can be made.

Respectfully,
Kyle Sanders
Helios Engineering



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Dig Safely. New York.
Call 811
before you dig

11-20-21	ORIGINAL PREPARATION DATE	NR
DATE	DESCRIPTION	INITIALS
REVISIONS		
MAP CHECK DATE: 00/00/00	INITIALED BY: --.--	

PIETRZAK & PFAU
ENGINEERING & SURVEYING, PLLC

282 GREENWICH AVENUE, SUITE A
GOSHEN, NEW YORK 10924
(845) 294-0606

2 HAMILTON AVENUE
MONTICELLO, NEW YORK 12701
(845) 796-4646

JOSEPH J. PFAU P.E.
LICENSE NO. 068945

MICHAEL F. CREEGAN P.L.S.
LICENSE NO. 050323

VINCENT A. PIETRZAK P.E. P.L.S. LEED AP
P.E. LICENSE NO. 076936 P.L.S. LICENSE NO. 050075
N.J.P.L.S. LICENSE NO. 35396

SIGNATURE DATE

ADS PROPERTIES, LLC CAR WASH

TOWN OF NEWBURGH
COUNTY OF ORANGE, NEW YORK

PROJECT TITLE

POTENTIAL TURN LANE

SECTION 95 BLOCK 1 LOT 14.1

DRAWING TITLE

O.C.H.D. SHEET NO.	D.E.C. SHEET NO.	DRAWING NUMBER
N/A OF N/A	N/A OF N/A	1 OF 1
SCALE 1"=30'	CAD REFERENCE 31102.01 ENGBASE	PROJECT NUMBER 31102.01