SPARACO & YOUNGBLOOD, PLLC
*CIVIL ENGINEERING * LAND SURVEYING * SITE PLANNING*
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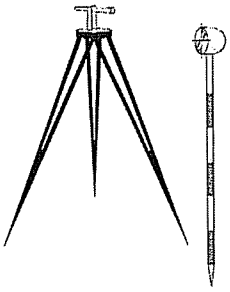


April 15, 2024

Village of New Hempstead
Planning Board
108 Old Schoolhouse Road
New City, NY 10956

Attn: Glenn McCreedy, PE

Re: Summit Carriage Homes – Drainage Addendum #2 to SWPPP
Job # SY-1798

- 8.54 acre parcel along Summit Park Road, New Hempstead, NY
- Section 42.10, Block 1, Lot #45
- Reference: SWPPP prepared by LJA (Leonard Jackson Associates) last revised 8-14-14 and subsequently updated with Addendum #1 prepared by LJA dated 7-28-15.

Dear Mr. McCreedy,

This project has previously received approval from the Village of New Hempstead for construction of an Active Adult Recreational community for approximately 60 townhouses and 1 community center.

The plans were originally prepared by Leonard Jackson Associates who has since retired and our office has been retained to update the approved site plan. The current as-built survey prepared by Atzl, Nasher & Zigler, PC and last revised 2-22-21 has been used as a base map for the revised site plan for this project.

A minor change to the plans is now proposed to add a pool and patio area adjacent to the community center as this amenity has been requested by the homeowners who currently reside at the facility.

According to the applicant, the 16 units in phase 1 have been sold and he is currently in the midst of selling units in phase 2 and it is desired that a pool be constructed on site by summertime for their use and enjoyment.

A full SWPPP was previously prepared by LJA and a later Addendum was prepared by LJA as referenced above.

As this project was prepared and approved under GP-0-10-001, we have reviewed the SWPPP prepared by LJA and its corresponding addendum and are proposing to utilize the same methodology for hydrologic consistency and to evaluate the proposed addition of the pool and walkways with connection to the site as-built road and sidewalk infrastructure.

The proposed pool and walkway connection areas are located in the overall sub-area which included the Clubhouse and Parking Lot as identified in the SWPPP.

We have updated the LJA water quality calculations for this sub-area to include an increase in impervious area of approximately 0.033 acres for a total of approximately 0.199 acres which require water quality treatment.

Originally LJA determined that (4) 8-foot diameter, 7-foot deep drywells were necessary in this area to accommodate the proposed impervious area. The proposed increase of the pool and patio areas will require (1) additional 8-foot diameter, 7-foot deep drywell (see detail attached) to be added onsite to handle the new pool and patio areas proposed for this submission.

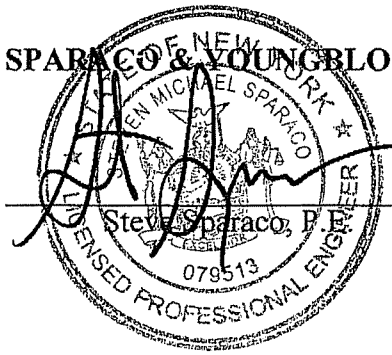
It is proposed to provide slot drains around the perimeter of the pool to catch pool and patio runoff and this will be conveyed directly to one 8-foot diameter, 7-foot deep drywell. The overflow from this drywell will be connected directly to the existing onsite 36-inch stormline draining Kim Lane at the Northwesterly corner of the site.

Please let us know if you have any questions on this matter.

Thank you for your assistance and cooperation.

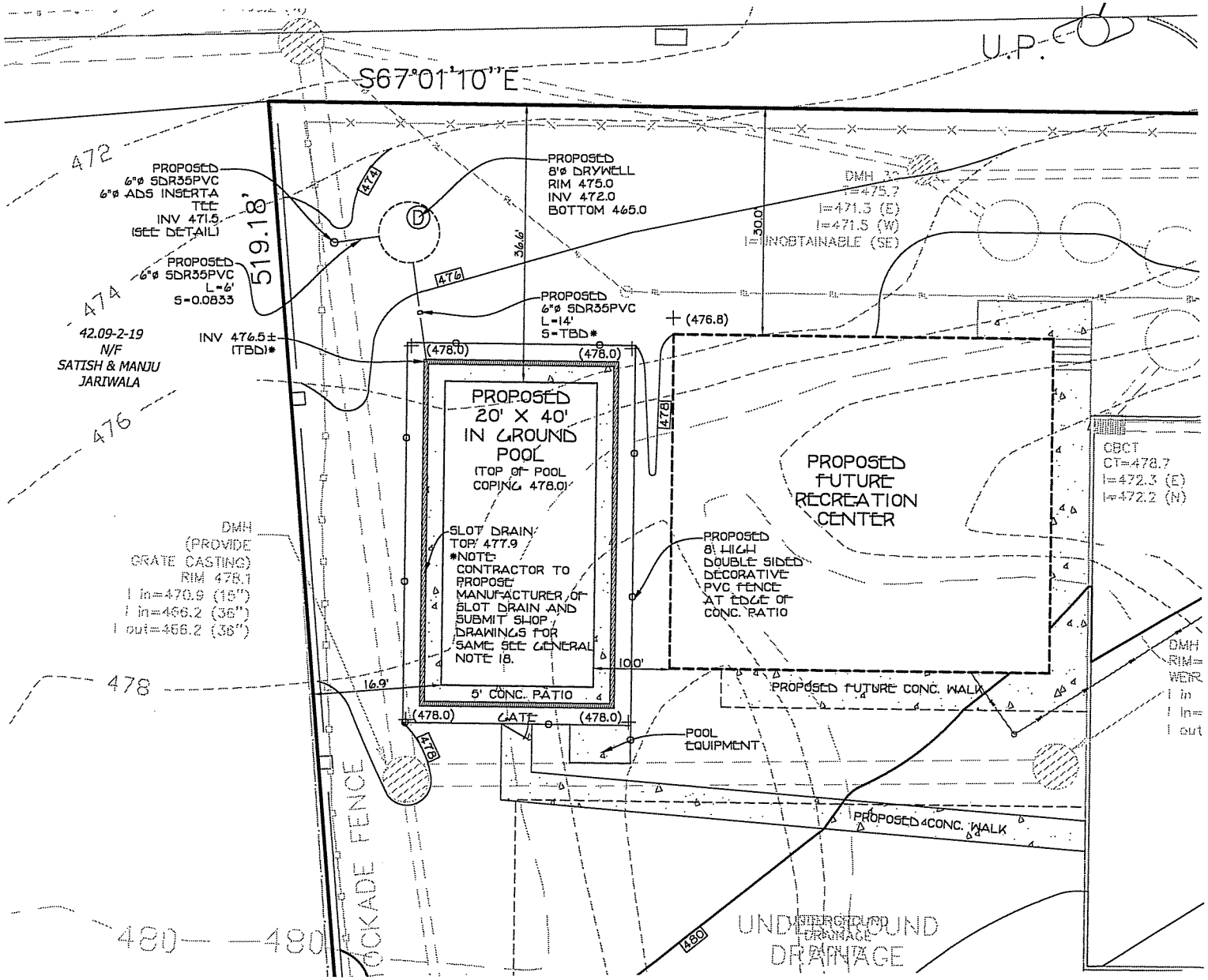
Sincerely,

SPARACO & YOUNGBLOOD, PLLC



Steve Sparaco, P.E.

cc: Client

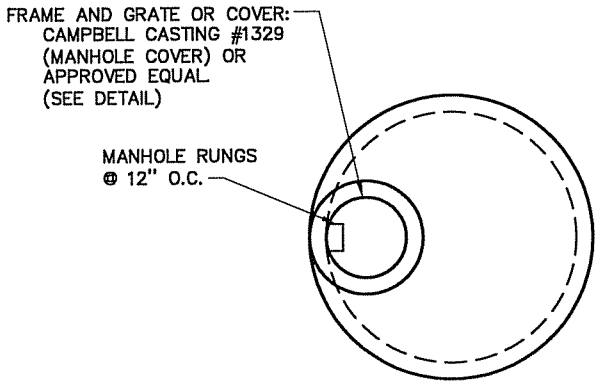


Summit Carriage Homes SY-1798

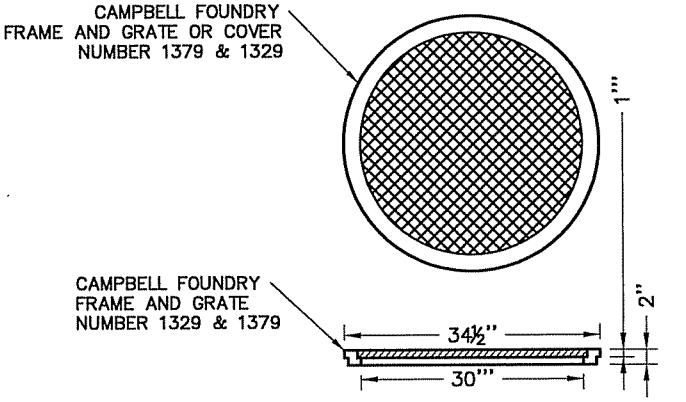
PART PLAN OF PROPOSED WORK AREA @ 1"=20'

4/15/24

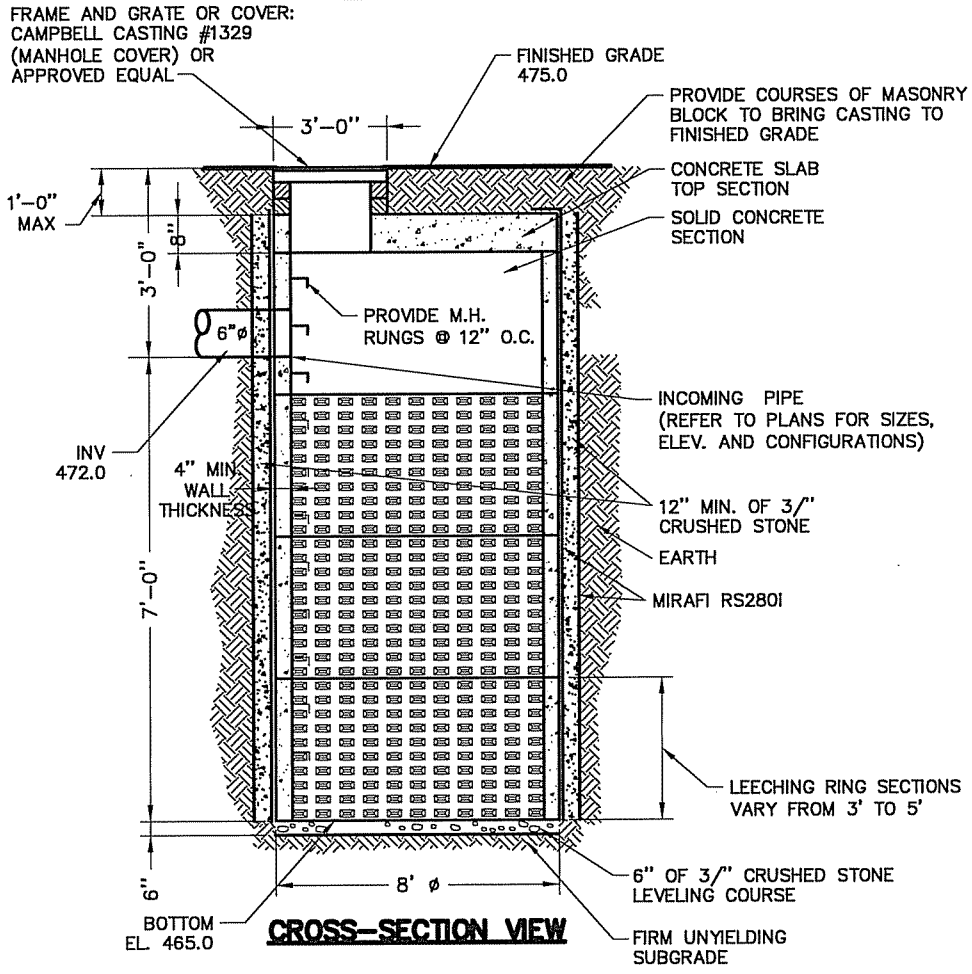
FIGURE 1



PLAN VIEW



CAMPBELL FOUNDRY
FRAME AND COVER DETAIL



CROSS-SECTION VIEW

NOTES:

1. CONTRACTOR TO SUBMIT P.E. CERTIFIED SHOP DRAWINGS FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.

2. MINIMUM STRENGTH CONCRETE 4500 PSI WALL THICKNESS 4"" WITH ADEQUATE STEEL REINFORCEMENT TO WITHSTAND CONSTRUCTION LOADS.

STORM DRY WELL DETAIL

N.T.S.

Figure 2

SPARACO & YOUNGBLOOD, PLLC
18 NORTH MAIN STREET
HARRIMAN, NY 10926
845-782-8543

WATER QUALITY CALCULATIONS

Project:	**SUMMIT CARRIAGE HOMES**
Location:	**Village of New Hempstead**
LJA #:	**07011**
Drainage Sub-area:	**Clubhouse and Parking Lot**
Date:	**15-Apr-24**
By:	**SMS**

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HARRIMAN, NY 10926
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Water Quality Volume Calculations

Project: SUMMIT CARRIAGE HOMES
Location: VILLAGE OF NEW HEMPSTEAD
S&Y# SY-1798

By: SMS
Date: 4/15/2024

Water Quality Calculations - Dry Well Design
Sub-Area: ***Clubhouse and Parking Lot***

A) NYSDEC Required Storage Volume:

P: 1.2 = 90% Rainfall Event Number from Figure #1
Rv: 0.9500 = 0.05 + 0.009(I) (Min. Rv =0.2) Use Rv = 0.95
I: 100.00 = Impervious coverage percentage
A: 0.199 = Site Area to Basin (in acres) *(Originally 0.166 ac, new increase is 0.033 ac)*

WQv: **0.019** = Req'd Water Quality Volume (in ac-ft)

$$= \frac{(P)(Rv)(A)}{12}$$

824 = Req'd Water Quality Volume in cubic ft.

B) NYSDEC Required Pretreatment

Pre-treatment Volume must be 100% of WQv since percolation rate exceeds 5 inches/hour (Note Actual percolation rate is assumed 10 inches/hr.)

100% WQv = 0.0189 ac-ft
= **824** cubic ft. = Required Pre-treatment Volume

C) Provided Pretreatment

Provide a sedimentation manhole, DIA: 8 ft.
Depth of sedimentation manhole: 7 ft.

Volume per tank, V: 351.85 Cu.Ft.

Number of Sedimentation Manholes Required: 2.34
Provide 2 sedimentation manholes

D) Water Quality Volume Calculations

Proposed Dry Well Diameter:	8
Proposed # of Dry Wells:	3

Rim Elevation: 478.0

Chart : Basin Volume:

							1	2	1x2=3	4	5	4-5=6
Contour Elev. (ft)	Contour Area Proposed (ft^2)	Contour Area Average (ft^2)	Contour Area Proposed (ac)	Contour Area Average (ac)	Depth (ft)	Volume (ft^3)	Volume (ac-ft)	Number of Proposed Dry Wells	Total Volume (ac-ft)	Cumulative Total Volume (ac-ft)	*Req'd Water Quality Volume (ac-ft)	Net Volume Provided (ac-ft)
478.0	50.3		0.0012									
		50.3		0.0012	1	50.3	0.0012	3	0.0035	0.0035	0.0189	-0.0154
477.0	50.3		0.0012									
		50.3		0.0012	1	50.3	0.0012	3	0.0035	0.0069	0.0189	-0.0120
476.0	50.3		0.0012									
		50.3		0.0012	1	50.3	0.0012	3	0.0035	0.0104	0.0189	-0.0085
475.0	50.3		0.0012									
		50.3		0.0012	1	50.3	0.0012	3	0.0035	0.0138	0.0189	-0.0051
474.0	50.3		0.0012									
		50.3		0.0012	1	50.3	0.0012	3	0.0035	0.0173	0.0189	-0.0016
473.0	50.3		0.0012									
		50.3		0.0012	1	50.3	0.0012	3	0.0035	0.0208	0.0189	0.0019
472.0	50.3		0.0012									
		50.3		0.0012	1	50.3	0.0012	3	0.0035	0.0242	0.0189	0.0053
471.0	50.3		0.0012									

Provide 2 Sedimentation Manholes, 8 ft. dia. and 7 ft. deep for Pretreatment
Provide 3 Drywells, 8 ft. dia. and 7 ft. deep for Water Quality