

TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT NAME:FAC SELF STORAGE/UHAUL-MIDDLEHOPEPROJECT NO.:21-33PROJECT LOCATION:SECTION 20, BLOCK 2, LOT 2REVIEW DATE:13 MAY 20022MEETING DATE:19 MAY 2022PROJECT REPRESENTATIVE:MECURIO-NORTON-TAROLLI-MARSHALL, ENGINEERING & LAND
SURVEYING/LARRY MARSHALL

- 1. Additional soil testing is being performed in the infiltration basin to comply with DEC Stormwater Design Manual. Information regarding the 2" per hour exfiltration must be confirmed.
- 2. Catch basin "O5" identifies an invert of 259.21 while the stormwater model identifies it at 259.71. the slope of this pipe is identified at 6.5% while the model identifies it at 1.28%.
- 3. The discharge routing device #3 identifies a 3' long by 2' broad crested weir. The detail identifies it as 30". SWPPP should be appropriately updated once infiltration rates have been identified.
- 4. Status of the DOT review should be received.
- 5. The ten (10) rental trucks depicted appear to extend into the access drives based on their current locations.
- 6. The applicant's representative are requested to evaluate the trench drain now proposed at the access drive. An 8" discharge pipe is identified. A large portion of the parking lot will discharge to the trench drain based on current grading.

Respectfully submitted,

MHE Engineering, D.P.C.

Patient & Adenes

Patrick J. Hines Principal PJH/kbw

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Lawrence J. Marshall, P.E.

John Tarolli, L.S.

Zachary A. Peters, P.E.

April 28, 2022

Planning Board Town of Newburgh 308 Gardnertown Road Newburgh, NY 12550 *also via email: planningboard@townofnewburgh.org*

> Re: Job No. 4762 Lands of Five SAC Self-Storage Corp Tax Parcel: 20-2-2 5325 NYS Route 9W Town of Newburgh <u>Commercial Site Plan</u> <u>Newburgh Project No. 2021-33</u>

Dear Board Members:

Attached please find the following items in reference to the above-captioned project:

1. Twelve (12) copies of the revised Site Plan

The following comments are in response to a review by Patrick Hines of McGoey, Hauser, & Edsall Consulting Engineers, dated December 10, 2021:

- 1. No response required.
- 2. A detailed response to the Town's Landscape Architect's review is provided below.
- 3. The Planning Board declared their intent to be Lead Agency at the March 3, 2022 meeting.
- 4. Soils testing locations are shown on sheet 3 of the site plan, with soils testing results provided on sheet 8. Additional soils testing is currently being coordinated for the proposed stormwater facilities to accommodate the testing depths specified in the NYSDEC Design Manual. Preliminary testing was completed, but deeper testing is required based on the final elevations of the designed stormwater facilities.
- 5. The Sewage Disposal System Requirements Table has been revised to specify a DB-9 distribution box, consistent with the details on sheet 9. Coordination with NYSDOT will be completed for the necessary permits.
- 6. We are currently working with NYSDOT on the design of the proposed minor commercial entrance, and the necessary permitting.
- 7. The Typical Parking Space Details on sheet 4 have been revised to provide double-line striping, as required.
- 8. The proposed water valving near the building has been revised to ensure potable water service is terminated when the fire protection line is closed.
- 9. General Note 21 has been added on sheet 7, as requested.
- 10. No response required.



The following comments are in response to a review by Karen Arent, Landscape Architect, dated February 19, 2022:

1. A majority of the previously proposed retaining wall has been removed in favor of grading the grassed area between the proposed building and U.S. Route 9W and reducing the finished floor elevation of the building. A significantly smaller section of retaining wall is proposed along the southerly portion of the front of the building and the easterly half of the southerly side of the building. The retaining wall has a maximum height of five feet, a significant reduction from the 16 feet previously proposed. The presence of the stormwater infiltration basin between the building and the road prevents larger trees from being planted across the front of the building.

The reduction in overall retaining wall height will significantly soften the building for passengers traveling along U.S. Route 9W from the previously submitted site plan. Additionally, several Shadblow Serviceberry trees have been proposed to be planted around the westerly and northerly sides of the stormwater basin.

- 2. The limited space between the building and paved areas and the stormwater basin prevents larger trees from being planted in the landscaped areas. Smaller trees, Shadblow Serviceberry, have been specified as an alternative.
- 3. A majority of the retaining wall have been removed and additional landscaping has been added. The removal of the wall and the additional green space will produce a significantly "softer" development than previously proposed.
- 4. The majority of the retaining wall and safety fencing have been removed along the front of the building. The proposed fencing will be located approximately 75-feet from the southerly travel lane of NYS Route 9W and approximately 10-feet higher in elevation. Visibility of the safety fencing will be significantly reduced as a result of the current site plan revisions. The fencing is currently proposed as chain link fence; if the Board would prefer a different style of fencing, please advise for the applicant's consideration.
- 5. The previously submitted building elevations include multiple architectural enhancements along the visible faces of the building. Additionally, the finished floor elevation of the building has been lowered by 8 feet.
- 6. A mixture of deciduous and evergreen landscaping has been provided along the southerly property line.
- 7. The drainage along the northerly side of the building has been updated as part of the most recent revisions. Additional landscaping has been provided along the northeasterly corner of the proposed building. No changes to the existing vegetation along the northerly property line are proposed.
- 8. See responses 6 & 7, above.
- 9. See response 6, above. Landscaping has been proposed along the southerly property line to screen the proposed building and access drive area.
- 10. A specification for the proposed wildflower mix has been included in Landscaping Note 6 on sheet 9.
- 11. Existing wooded areas are delineated by the existing treeline shown on the plans. Individual trees within the existing wooded areas are not shown. The proposed treeline





and limits of disturbance have also been been indicated on the plan. A Tree Protection Detail has been provided on sheet 9.

12. The notes requested in comments 12 - 16 have been added on sheet 9 as Planting Soil Notes 4 - 8.

The following comments are in response to a review by Starke Hipp and Kenneth Wersted, P.E. of Creighton Manning Engineering dated March 1, 2022:

- 1. No response required.
- 2. No response required.

Please place this project on the next available meeting agenda for discussion.

If you have any questions or concerns, please feel free to contact me at (845) 744-3620 or by email at <u>Imarshall@mntm.co</u>.

Sincerely,

Lawrence Marshall, P.E.

LM/lm Enc.

Cc: Phil Apap (via email) Patrick Hines (via email) Dominic Cordisco (via email) Kenneth Wersted, P.E. (via email) Karen Arent, L:A







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<u>GE</u>	REQUIRED	PROPOSED
	3 ACRES	5.24 ACRES
	100'	263,4'
	125'	723.2'
	60'	61.0'
	40'	475.3′
)	30'	31,0'
1)	60'	135.2′
OVERAGE	30%	10.11%
	35′	35'
(2)	80%	24.8%









OF WALL.

#<u>1</u> GRADATION: <u>SIEVE SIZ</u>E

HANCOR HEAVY DUTY TUBING.

80	"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW." "ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY MAP MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED VALID, TRUE COPIES." "CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYORS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY		4-22-22			
	WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO	2	4-22-22	PLAN REVISIONS, COMMENTS	ZAP	
	ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS	1	22-11-22	DETAILED SITE PLAN	ZAP	
MAP CK:	AND/OR ASSIGNS, OR SUBSEQUENT OWNERS."	NO.	DATE	REVISION	ВΥ	

GRAPHIC SCALE

(IN FEET 1 inch = 20 ft.



PO BOX 166; 45 MAIN STREET; PINE BUSH, NY 12566 P: (845)744.3620 F: (845)744.3805 MNTM@MNTM.CO

Viercurio-Norton-Laroll

-Marshal

PROJECT: 4762

4 / 10

SHEET:

NY&DOT Notes:

1.) ALL WORK UNDER NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) JURISDICTION SHALL BE COMPLETED IN CONFORMANCE WITH NYSDOT 608-03 STANDARD SHEETS AND THE APPROVED DETAILS SHOWN ON THIS PLAN.

2.) SIGNS AND WORK ZONE TRAFFIC CONTROL SHALL ADHERE TO FEDERAL MUTCD WITH STATE SUPPLEMENT.

3.) PERFORM UTILITY INSTALLATION WITHIN THE NYSDOT RIGHT-OF-WAY (R.O.W.) IN ACCORDANCE WITH NYSDOT BLUE BOOK. 4.) ALL ADVERTISING SIGNS SHALL BE OFF THE NYSDOT RIGHT-OF-WAY.

5.) THE PUBLIC ROADWAY SHALL BE KEPT CLEAN AT ALL TIMES AND FREE OF ALL CONSTRUCTION DEBRIS.

6.) ALL WORK ZONE SIGNS AND FLAGGERS SHALL BE OFF THE ROADWAY WHEN NOT IN USE.

7.) NYSDOT NON-SEASONAL CONSTRUCTION IS NOT PERMITTED WITHIN THESE PLANS. ANOTHER REVIEW FROM NYSDOT IS REQUIRED WHEN ASKING FOR NON-SEASON WORK.

8.) ANY PROPOSED CHANGES WITHIN THE NYSDOT R.O.W. REQUIRES TWO (2) WEEK NOTICE TO THE REGION 8 NYSDOT PERMITS OFFICE AT (845) 431-5897.

9.) NOTIFY DIG SAFELY (811) A MINIMUM OF TWO (2) DAYS PRIOR TO THE COMMENCEMENT OF WORK.

IO.) ADHERE TO NYSDOT PERMIT CLOSURE PROCESS FOR INSPECTION, BOND RELEASE, AND CLOSURE OF PERMIT. II.) ANY SIDEWALKS AND SIDEWALK RAMPS PROPOSED REQUIRED ADA (AMERICANS WITH DISABILITIES ACT) COMPLIANT INSPECTIONS. A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER SHALL PERFORM THE REQUIRED PRE-POUR CONCRETE FORM INSPECTION AND SUBMIT A SIGNED & DATED INSPECTION REPORT VERIFYING THE FORMS MEET ADA REGULATIONS PRIOR TO THE SIDEWALKS BEING POURED.

12.) AFTER COMPLETION OF SIDEWALK CONSTRUCTION, IF ANY, A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER SHALL COMPLETE AND SUBMIT A SIGNED AND SEALED NYSDOT "CRITICAL ELEMENTS FOR THE DESIGN AND LAYOUT AND ACCEPTANCE OF PEDESTRIAN FACILITIES" FORM CONFIRMING COMPLIANCE WITH ALL OTHER APPLICABLE CODES, STANDARDS, AND SPECIFICATIONS. IN INSTANCES WHERE NONSTANDARD FEATURES CANNOT BE PROVIDED, A JUSTIFICATION FORM WILL NEED TO BE COMPLETED UNDER THE PROCESS PROMULGATED UNDER THE NYSDOT HIGHWAY DESIGN MANUAL CHAPTER 2 (REFER TO EXHIBIT 2-15A).

13.) NYSDOT CONSTRUCTION HOLIDAY LANE CLOSURES RESTRICTIONS AS STATED IN NYSDOT ENGINEERING DIRECTIVE ED 15-002 SHALL BE ADHERED TO.

14.) ALL UTILITIES WITHIN THE NYSDOT RIGHT OF WAY SHALL BE INSTALLED IN ACCORDANCE WITH THE NYSDOT BLUE BOOK (NYSDOT REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF UNDERGROUND UTILITY INSTALLATIONS WITHIN THE STATE HIGHWAY RIGHT-OF-WAY).

15.) NYSDOT NON-SEASONAL CONSTRUCTION IS NOT PERMITTED WITHIN THESE PLANS. IF NON-SEASONAL WORK IS REQUESTED, A SEPARATE REVIEW IS REQUIRED TO BE COMPLETED BY NYSDOT.

IG.) NYSDOT HIGHWAY WORK PERMITAND NYSDOT STAMPED, APPROVED PLANS SHALL BE ISSUED AND PRESENT AT JOB LOCATION AT ALL TIMES THROUGHOUT CONSTRUCTION.

17.) ALL SIGNS AND WORK ZONE TRAFFIC CONTROL SHALL ADHERE TO FEDERAL MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) REGULATIONS WITH NEW YORK STATE SUPPLEMENT.

18.) THE SCHOHARIE NYSDOT RESIDENT ENGINEER SHALL BE CONTACTED AT LEAST SEVEN (7) DAYS PRIOR TO THE START OF ANY WORK.

19.) ALL MATERIALS USED WITHIN THE NYSDOT RIGHT-OF-WAY MUST COMPLY WITH THE CURRENT NYSDOT STANDARDS AND SPECIFICATIONS.

20.) ROADWAY SHALL BE KEPT CLEAN AT ALL TIMES AND FREE OF ALL CONSTRUCTION DEBRIS.

21.) ALL WORK ZONE SIGNS AND FLAGGERS SHALL BE OFF THE ROADWAY WHEN NOT IN USE.

22.) ANY PROPOSED CHANGES WITHIN THE NYSDOT RIGHT OF WAY REQUIRES A MINIMUM TWO (2) WEEK NOTICE TO THE NYSDOT REGION 8 PERMITS OFFICE. 23.) ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE COMPLETED IN ACCORDANCE WITH NYSDOT 608-03 STANDARD SHEETS.

CONVENTIONAL ROADWAY AST-C4 Notes: 1. Short-term stationary is daytime work that occupies a location for $~~\checkmark$ more than 1 hour within a single daylight period. 2. The Barrier Vehicle (and Advance Warning Vehicle(s) where appropriate) shall maintain the appropriate Roll-Ahead Distance, be an unoccupied truck, positioned parallel to traffic, parking brake set, placed in 2nd gear (Park / Neutral), have the wheels aligned with the lane striping and lane to maintain lane discipline and to stay in lane A (See Table 1) if struck. B. There shall be no workers, equipment or other vehicles in the buffer space or the roll ahead distance. TABLE 1 : ADVANCE WARNING SIGN SPACING **DISTANCE BETWEEN SIGNS** ♣ **5**0FT Min-100 FT. Max. Roadway S ≧ A (FT.) B(FT.) (1.5 - 2.5 Skip Lines) Spotter Recommended Cone spacing not to exceed 40 FT URBAN LOW 30 100 100 (≤30 MPH) URBAN <u>35</u> (35-40 MPH) 40 200 URBAN HIGH 45 350 350 (≥45MPH) RURAL 500 500 Roll Ahead Distance (See Table 2) TABLE 3: REQUIRED SIGN SIZES* DISTANCE /# SKIP LINES/# OF CONES SIGN SIGN SIGN SIZES ROLL Barrier Vehicle and TMIA are required LONGITUDINAL IN FT if speeds are 45mph or greater. BUFFER SPACE IN FT W20-1 36X36 in. 48X48 in. FOR SHOULDER WIDTH Barrier Vehicle is required and TMIA W21-5 36X36 in. 48X48 in. is recommended if speeds are MAX Less than 8 FT. 8 FT OR G20-2 36X18 in. 48X24 in. less than 45 mph. (MIN -MAX) WIDER
 25
 155 (~4 Skip Lines)
 20/1/2 - 40/1/2
 40/1/2
 *Freeway/Expressway sizes may be used on

 30
 200 (~5 Skip Lines)
 50
 100
 20/1/2 - 40/1/2
 40/1/2
 Conventional Highways, if space constraints do not exist.

 35
 250 (~6 Skip Lines)
 30
 100
 40/1/2-60/2/3
 80/2/3

 40
 305 (~8 Skip Lines)
 40/1/2-60/2/3
 80/2/3
 Buffer Space (See Table 2)
 45
 360 (~9 Skip Lines)
 75
 150
 60/2/3 - 100/3/4
 120/3/4

 50
 425 (~11 Skip Lines)
 75
 150
 80/2/3 - 100/3/4
 140/4/5
 55 495 (~13 Skip Lines) 100 200 80/2/3 - 120/3/4 160/4/5 This sign shall be located a Maximum G20-2 distance of 500' (12 Skip Lines) past 4 L/3 (See Table 2) the work area. - 🐣 🗕 W20-1 (18x18in.Min Warning W21-5 A (See Table 1) Flags Required) Work Area Arrow Panel (Caution Mode) Barrier Vehicle with TMIA NYSDOT WORK ZONE TRAFFIC CONTROL B (See Table 1) SHORT TERM STATIONARY OPERATION INVOLVING SHOULDER CLOSURE WITHOUT LANE ENCROACHMENT ON END ROAD WORK TWO LANE CONVENTIONAL ROADWAY DECEMBER 2019 TAST-C4 NOT TO SCALE Rev. 2019V.01

Work Zone Traffic Control Plan



			-	
/		\langle		
1				
		IS	3	– 1.5" TOP COURSE (12.5 TOP - 4 2.5" BINDER COURSE (19 BINDER 5" BASE COURSE (37.5 BASE - GRAVEL SUBBASE (NYSDOT 73



EX. WHITE LINE EDGE OF PAVEMENT

LOCATION

PROPOSED

DRIVE

9W 8302 3031

SIGHT LINE

1

3

4

-

NORTHERLY DIRECTION



NO

 \triangleleft

Sight Distance Table





	"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A					
	VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW					1
	YORK STATE EDUCATION LAW." "ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY					1
	MAP MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL					
	SHALL BE CONSIDERED VALID, TRUE COPIES."					
	"CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY					1
	PRACTICE FOR LAND SURVEYORS ADOPTED BY THE NEW YORK					
80	STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.					
	SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED					1
	INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY					1
	ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS	1	2-11-22	DETAILED SITE PLAN	ZAP	
	AND/OR ASSIGNS, OR SUBSEQUENT OWNERS."	NO.	DATE	REVISION	ВУ	

GRAPHIC SCALE

(IN FEET) 1 inch = 20 ft.

MAP CK:

SHEETS IN THE PLAN SET. for TAX MAP PARCEL: 2-2-05 U-Haul Self-Storage TOWN OF NEWBURGH COUNTY OF ORANGE STATE OF NEW YORK DRAFTED BY: LJM A. DATE: 2021 SEPT 8 Mercurio-Norton-Tarolli-Marshall PROJECT: 4762 SHEET: 5 / 10 PO BOX 166; 45 MAIN STREET; PINE BUSH, NY 12566 BY LAWRENCE MARSHALL PE #087107 P: (845)744.3620 F:(845)744.3805 MNTM@MNTM.CO



	IO'	
3′	4'	3′
	RIPRAP-LINED SWALE	

<u>NOTES:</u> 1.) SWALE SHALL BE STABILIZED 6" RIPRAP, 12" THICK. Riprap Lined Swale "A" Detail



Runoff Diversion Swale "A" Detail



MINIMUM OF 4" ITEM 4 LEVELING COURSE, 3" ASPHALT BINDER COURSE, AND I-1/2" ASPHALT TOP COURSE. Typical Storm Sewer Trench Detail NOT TO SCALE

TOP OF THE RUN-OF- BANK GRAVEL AND SHALL BE SEEDED AND MULCHED WITH SEED IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS. 3.) IN PAVED AREAS, THE EXISTING PAVEMENT SHALL BE SAW CUT PRIOR TO REMOVAL. REPLACEMENT OF THE PAVEMENT SHALL BE COMPLETED WITH A

<u>NOTES:</u> I.) RUN-OF-BANK BACKFILL SHALL BE INSTALLED IN 6" LIFTS & COMPACTED TO 95% PROCTOR DENSITY. RUN OF BANK GRAVEL SHALL NOT CONTAIN STONES LARGER THAN 4". 2.) IN LAWN AREAS, A MINIMUM OF 6 INCHES OF TOPSOIL SHALL BE PLACED ON



Typical Catch Basin Detail NOT TO SCALE

6.) ALL CATCH BASINS SHALL BE CONSTRUCTED TO WITHSTAND A MINIMUM OF H-20 LOADING. 7.) THIS DETAIL APPLIES TO ALL PROPOSED CATCH BASINS, WITH THE EXCEPTION OF CATCH BASIN 'I'.

WITH CAST-IN-PLACE CONCRETE OR A COMBINATION OF PRECAST CONCRETE ADJUSTMENT ELEMENTS AND BEDDING MATERIALS.

5.) GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAMES AND GRATES OF UP TO 2.5" SHALL BE MADE WITH BEDDING MATERIAL MEETING THE REQUIREMENTS OF MORTAR FOR CONCRETE MASONRY, CONCRETE GROUTING MATERIALS OR CONCRETE REPAIR MATERIAL. GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAMES AND GRATES OF UP TO 6" SHALL BE MADE WITH COMBINATION OF PRECAST CONCRETE PAVERS AND BEDDING MATERIALS. GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAMES AND GRATES OF UP TO 12" SHALL BE MADE

4.) CONNECTIONS BETWEEN BASIN AND PIPE SHALL BE MADE BY FILLING THE SPACE AROUND EACH PIPE WITH MORTAR FOR CONCRETE MASONRY, CONCRETE GROUTING MATERIAL, OR CONCRETE REPAIR MATERIAL.

3.) STEPS SHALL BE PROVIDED 12" ON CENTER WHEN DEPTH OF BASIN EXCEEDS 4'-O''.

NOTES

2.) CATCH BASINS SHALL BE EQUIPPED WITH A FLAT TOP FRAME AND GRATE, MODEL GRATE-30×48. GRATES SHALL BE BICYCLE GRATES. FRAMES AND GRATES AS MANUFACTURED BY WOODARDS CONCRETE PRODUCTS, BULLVILLE, NY, OR APPROVED EQUAL.

) CATCH BASINS SHALL BE PRECAST CONCRETE CATCH BASIN, MODEL CB-30×48, AS MANUFACTURED BY WOODARDS CONCRETE PRODUCTS, BULLVILLE, NY, OR APPROVED EQUAL.



3.5" MIN. TOPSOIL NATIVE SOIL BACKFILL -

360HD CHAMBER

CULTEC RECHARGER 360HD END CAP -----

AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE

COMPACTED TO 95% CULTEC RECHARGER -



BE UTILIZED AS TEMPORARY SEDIMENT TRAPS DURING CONSTRUCTION.

THE CHAMBERS SHALL BE BACKFILLED WITH 3/4" CRUSHED STONE.



I.) CATCH BASIN 'F' SHALL BE A CUSTOM CATCH BASIN WITH INTERIOR DIMENSIONS OF 72" × 72". THE BASIN SHALL BE DESIGNED TO ACCOMMODATE A MINIMUM OF H-ZO LOADING. THE BASIN SPECIFICATIONS SHALL BE CONSISTENT WITH A MODEL CB 30x48 PRECAST CATCH BASIN, AS MANUFACTURED BY WOODARDS CONCRETE PRODUCTS, BULLVILLE, NY, OR APPROVED EQUAL.

2.) CATCH BASIN SHALL BE EQUIPPED WITH A FLAT TOP FRAME AND GRATE, MODEL GRATE-30×48. THE GRATE SHALL BE LOCATED ON THE SIDE WALL CONTAINING THE ACCESS STEPS. GRATES SHALL BE BICYCLE GRATES. FRAMES AND GRATES AS MANUFACTURED BY WOODARDS CONCRETE PRODUCTS, BULLVILLE, NY, OR APPROVED EQUAL.

3.) STEPS SHALL BE PROVIDED 12" ON CENTER WHEN DEPTH OF BASIN EXCEEDS 4'-O''.

4.) CONNECTIONS BETWEEN BASIN AND PIPE SHALL BE MADE BY FILLING THE SPACE AROUND EACH PIPE WITH MORTAR FOR CONCRETE MASONRY, CONCRETE GROUTING MATERIAL, OR CONCRETE REPAIR MATERIAL.

5.) GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAMES AND GRATES OF UP TO 2.5" SHALL BE MADE WITH BEDDING MATERIAL MEETING THE REQUIREMENTS OF MORTAR FOR CONCRETE MASONRY, CONCRETE GROUTING MATERIALS OR CONCRETE REPAIR MATERIAL. GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAMES AND GRATES OF UP TO 6" SHALL BE MADE WITH COMBINATION OF PRECAST CONCRETE PAVERS AND BEDDING MATERIALS. GRADE ADJUSTMENT FOR TOP SLABS AND/OR FRAMES AND GRATES OF UP TO 12" SHALL BE MADE WITH CAST-IN-PLACE CONCRETE OR A COMBINATION OF PRECAST CONCRETE ADJUSTMENT ELEMENTS AND BEDDING MATERIALS.

NOT TO SCALE

THE OWNER / OPERATOR WILL BE RESPONSIBLE FOR ENSURING LONG TERM MAINTENANCE OF THE POST-CONSTRUCTION WATER QUALITY AND QUANTITY CONTROL DEVICES. MAINTENANCE OF THE DEVICES IS REQUIRED TO ENSURE PROPER TREATMENT OF STORMWATER RUNOFF. DESCRIPTIONS OF THE MAINTENANCE REQUIREMENTS FOR THE PROPOSED PRACTICES ARE PROVIDED BELOW AND ARE INCLUDED IN APPENDIX N OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THE PROJECT. DIVERSION SWALES: DIVERSION SWALES SHALL BE INSPECTED REGULARLY TO ENSURE PROPER FUNCTION. PARTICULAR ATTENTION SHALL BE GIVEN TO EVIDENCE OF SCOURING ALONG THE BOTTOM OF THE SWALE AND THE ACCUMULATION OF SEDIMENT. ANY AND ALL DEBRIS SHALL BE REMOVED DURING MOWING OPERATIONS. THE SWALE AND EMBANKMENT SHALL BE MOWED ON A SEMI-ANNUAL BASIS. ANY SCOURING OR EROSION OF PREVIOUSLY STABILIZED AREAS SHALL BE REPAIRED AND IMMEDIATELY STABILIZED ON AN ANNUAL BASIS. <u>OUTLET STRUCTURES:</u> OUTLET STRUCTURES SHALL BE INSPECTED REGULARLY TO ENSURE THE DEVICES ARE PROPERLY FUNCTIONING. ANY AND ALL DEBRIS LOCATED WITHIN THE BASINS SHALL BE REMOVED DURING INSPECTION. SPECIAL ATTENTION SHOULD BE GIVEN TO THE OUTLET PIPE TO ENSURE PROPER DISCHARGE. <u>ROCK PROTECTION:</u> ROCK PROTECTION AREAS SHALL BE INSPECTED REGULARLY FOR EVIDENCE OF EROSION OR SEDIMENT TRANSFER. ANY AND ALL DEBRIS SHALL BE REMOVED DURING THE COURSE OF THE INSPECTION. THE ROCK PAD SHALL BE CLEANED AND REPAIRED OR REPLACED WHENEVER MORE THAN ONE (1) INCH OF SEDIMENT HAS ACCUMULATED ON THE SURFACE OF THE STONE. ACCUMULATED SEDIMENT AT THE OUTLET IS INDICATIVE OF SCOURING OR EROSION OCCURRING UPSLOPE. IF SEDIMENT ACCUMULATION IS EVIDENT AT THE ROCK PROTECTION AREA, A THOROUGH INSPECTION OF THE UPSLOPE DRAINAGE SYSTEM SHOULD BE COMPLETED TO DETERMINE THE CAUSE. <u>SOIL RESTORATION:</u> VEGETATED AREAS SHALL BE INSPECTED REGULARLY FOR EVIDENCE OF EROSION OR SCOURING. BARE OR ERODED AREAS SHALL BE REPAIRED AND RESEEDED TO ESTABLISH A STABILIZED VEGETATIVE COVER. VEGETATED AREAS SHALL BE MOWED ON A SEMI-ANNUAL BASIS AND SHALL BE KEPT CLEAR OF VEHICULAR AND FOOT TRAFFIC. SUBSURFACE INFILTRATION BASINS: INFILTRATION BASINS SHALL BE INSPECTED REGULARLY TO ENSURE THE DEVICES ARE PROPERLY FUNCTIONING. PARTICULAR ATTENTION SHALL BE GIVEN TO CLOGGING OF DEVICES, EVIDENCE OF EROSION, ACCUMULATION OF SEDIMENT. ANY AND ALL DEBRIS LOCATED WITHIN THE INLET CATCH BASINS SHALL BE REMOVED DURING INSPECTION. SPECIAL ATTENTION SHOULD BE GIVEN TO THE OUTLET STRUCTURE TO ENSURE PROPER FUNCTION. THE AREAS AROUND THE BASIN SHALL BE MOWED, AT A MINIMUM, ON A SEMI-ANNUAL BASIS. ANY SCOURING OR EROSION OF PREVIOUSLY STABILIZED AREAS SHALL BE REPAIRED ON AN ANNUAL BASIS. Outlet Structure "OS" Detail THIS MAP IS INCOMPLETE UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP Details for Site Plan AND INVALID WITHOUT AL BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A SHEETS IN THE PLAN SET. VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW." TAX MAP PARCEL: "ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY 2-2-0 MAP MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL U-Haul Self-Storage TOWN OF NEWBURGH SHALL BE CONSIDERED VALID, TRUE COPIES." "CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY COUNTY OF ORANGE WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF STATE OF NEW YORK PRACTICE FOR LAND SURVEYORS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. DRAFTED BY: LJM SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED DATE: 2021 SEPT 8 INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY SITE REVISIONS, COMMENTS 4-22-22 Mercurio-Norton-Tarolli-Marshall PROJECT: 4762 WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS 1 SHEET: 6 / 10 2-11-22 DETAILED SITE PLAN PO BOX 166; 45 MAIN STREET; PINE BUSH, NY 12566 AND/OR ASSIGNS, OR SUBSEQUENT OWNERS." MAP CK: VO. DATE REVISION P: (845)744.3620 F:(845)744.3805 MNTM@MNTM.CO BY

(IN FEET 1 inch = 20 ft.

GRAPHIC SCALE

Stormwater Facility Maintenance Requirements



Effluent Sewage Pump Chamber Cross-section Detail



	WATERTIGHT	SEWER	ABSORPTION FIELDS OR UNLINED SAND FILTER (INCLUDING	ABSORPTION FIELDS LOCATED IN GRAVEL SOILS (INCL/IDING	SEEPAGE PITS (NCLUDING REPLACEMENT
FEATURES	TANK	LINE	REPLACEMENT AREA)	REPLACEMENT AREA)	AREA)
DRILLED WELL (PUBLIC WATER SUPPLY) (A)	100'	50'	200′	200'	200'
DRILLED WELL (PRIVATE WATER SUPPLY) (B)	50'	50'	100'	200'	150'
WATERLINE (PRESSURE) (C)	10'	10'	10'	IO'	10'
WATERLINE (SUCTION)	50'	50'	100'	100'	150'
DUG WELL / SPRING (D)	75'	50'	150'	200'	150'
SURFACE WATER (E)	50'	25'	100'	100'	100'
RESERVOIR (PRIVATE WATER SUPPLY) (F)	50'	50'	100'	100'	100'
RESERVOIR (PUBLIC WATER SUPPLY) (F)	100'	100'	200′	200'	200'
INTERCEPTOR DRAIN - OPEN DRAINAGE DIVERSION TO GROUNDWATER	25'	25'	50' (G)	50' (G)	50' (G)
STORMWATER MANAGEMENT - INFILTRATION	25'	25'	50' (G)	50′ (G)	50' (G)
STORMWATER MANAGEMENT - SURFACE WATER DISCHARGE (G)	50'	25'	100'	100'	100'
CULVERT (TIGHT PIPE)	25'	10'	35'	35'	35'
CULVERT OPENING	2.5'	25'	50'	50'	50'
CATCH BASIN	25'	NA	50'	50'	50'
SWIMMING POOL (IN-GROUND)	20'	10'	35'	35'	50'
FOUNDATION	10'	NA	20'	20'	20'
PROPERTY LINE	10'	10'	IO'	IO'	10'
TOP OF EMBANKMENT	25'	25'	50'	50'	50'
WETLAND (NYSDEC) (H)	100'	100'	100'	100'	100'

(H) A REDUCED SEPARATION DISTANCE, IF ANY, IS DETERMINED THROUGH THE PERMIT REVIEW PROCESS WITH THE NYSDEC.

Minimum Separation Distances From Existing Or Proposed Features

AS PER NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION "DESIGN STANDARDS FOR INTERMEDIATE SIZED WASTEWATER TREATMENT SYSTEMS", PUBLISHED MARCH 5, 2014

GRAPHIC SCALE	"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW." "ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY MAP MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED VALID, TRUE COPIES." "CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYOR'S ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.				
	INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY	S	22-22-22	PLAN REVISIONS, COMMENTS	ZAP
(IN FEET)	ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS	1	2-11-22	DETAILED SITE PLAN	ZAP
1 inch = 20 ft. MAP CK:	AND/OR ASSIGNS, OR SUBSEQUENT OWNERS."	NO.	DATE	REVISION	ВУ

DESIGN FLOW RATE (GPD)	SEPTIC TANK SIZE (GALLONS)	DISTRIBUTION BOX MODEL NUMBER	TYPE OF SYSTEM	DESIGN STABILIZED PERCOLATION RATE (MIN.)	MIN. LENGTH OF ABSORPTION TRENCH (L.F.)	PROPOSED LENGTH OF ABSORPTION TRENCH (L.F.)	SEWAGE DISPOSAL SYSTEM DESIGN
100	1,000	DB-9	А.Т.	21-30	84	051	4 ROWS @ 30 L.F.

I.) A.T. = ABSORPTION TRENCH TYPE SYSTEM

2.) THE ANTICIPATED SEWAGE GENERATION RATE IS 15 GALLONS PER DAY (GPD) BASED UPON A SINGLE EMPLOYEE AT 15 GPD PER EMPLOYEE. A DESIGN FLOW RATE OF 100 GPD HAS BEEN USED AS A CONSERVATIVE FLOW RATE.







Percolation Testing Results

TEST	HOLE #	1	2	3	4	5	6	7
TEST	ING DATE:	9-3-21	9-3-21	9-3-21	9-3-21	11-5-21	11-5-21	11-5-21
DEPTI	H / TESTER:	14'' - RTS	14" - RTS	33" - RTS	33" - RTS	60" - RS	60" - RTS	78" - RTS
D A TCH	RUN I ELAPSED TIME:	2:12	8:00	0:27	0:26	0:5/	<i>0</i> :38	4:30
TULT:	RUN Z ELAPSED TIME:	2:42	10:50	0:27	0:28	0:53	0:42	6:00
A ST N MN	RUN 3 ELAPSED TIME:	3:00	12:01			0:56	O:45	6:32
MITH MITH	RUN 4 ELAPSED TIME:							
TION DLETED	RUN 5 ELAPSED TIME:							
PERCOLA	RUN 6 ELAPSED TIME:							
	RUN 7 ELAPSED TIME:							
12 	STABILIZED RATE:	3:00	12:01	±/;00	±/;00	±/:00	±/;00	6:32

TEST HOLE #		12	13	12	13
TESTI	NG DATE:	11-16-21	11-16-21	11-16-21	11-16-21
DEPTH	H / TESTER:	24'' - WJ	24" - WJ	24'' - WJ	24" - WJ
ATCH	RUN I ELAPSED TIME:	4:06	15:13	4:06	15:13
OPW/	RUN Z ELAPSED TIME:	4:50	24:43	4:50	24:43
T REG H A ST IN MIN	RUN 3 ELAPSED TIME:	5:09	26:00	5:09	26:00
TES' WITH S ARE	RUN 4 ELAPSED TIME:		26:58		26:58
TION TIMES	RUN 5 ELAPSED TIME:				
COLA COM APSEL	RUN 6 ELAPSED TIME:				
PER(ESTING	RUN 7 ELAPSED TIME:				
1 *	STABILIZED RATE:	5:09	26:58	5:09	26:58





8

11-5-21

78" - RTS

7:26

8:25

9:0Z

9:02



FINISHED GRADE (VARIES)

FINISHED GRADE (VARIES)

DOMESTIC WATER TO BE

OF MAIN GATE VALVE -

TAPPED ON PRIVATE SIDE

8" DIP WATER LINE

INSTALLATION REQUIREMENTS.

GRASS -

PIPE IDENTIFICATION TAPE 24"

PIPE BEDDING: SAND BACKFILL —

DUCTICE IRON (D.I.) CLASS 52 -

COMPACTED TO 95% PROCTOR DENSITY.

OR TYPE K COPPER (SIZE

BOTTOM OF TRENCH-

STABLE UNDISTURBED -

SEEDING SPECIFICATIONS.

ABOVE TOP OF PIPE

LIMITS OF TRENCH

EXCAVATION

(SEE NOTE 5)

PER PLAN)

SUBGRADE

8" MUELLER MODEL -

TAPPING VALVE

T-2360-19



STORAGE BUILDING. Water Service Detail

Water System Notes:

1.) CONSTRUCTION OF POTABLE WATER UTILITIES AND CONNECTION TO THE TOWN OF NEWBURGH WATER SYSTEM REQUIRES A PERMIT FROM THE TOWN OF NEWBURGH WATER DEPARTMENT. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF HEALTH, ORANGE COUNTY DEPARTMENT OF HEALTH, AND TOWN OF NEWBURGH.

2.) ALL WATER SERVICE LINES FOUR (4) INCHES AND LARGER IN DIAMETER SHALL BE CEMENT LINED CLASS 52 DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA CI51/AZI.51 FOR DUCTILE IRON PIPE, LATEST REVISION. JOINTS SHALL BE EITHER PUSH-ON OR MECHANICAL JOINT AS REQUIRED.

3.) THRUST RESTRAINT OF THE PIPE SHALL BE THROUGH THE USE OF JOINT RESTRAINT. THRUST BLOCKS ARE NOT ACCEPTABLE. EXCEPT AS SHOWN FOR THE HYDRANT INSTALLATIONS. JOINT RESTRAINT SHALL BE THROUGH THE USE OF MECHANICAL JOINT PIPE WITH RETAINER GLANDS. ALL FITTINGS AND VALVES SHALL ALSO BE INSTALLED WITH RETAINER GLANDS FOR JOINT RESTRAINT. JOINT RESTRAINTS SHALL BE EBAA IRON MEGALUG SERIES 1100 FOR FLANGED FITTINGS AND EBAA IRON MEGALUG SERIES 1700 RESTRAINT HARNESSES FOR PIPES WITH PUSH ON JOINTS. MAKE AND MODEL MAY BE SUBSTITUTED WITH AN APPROVED EQUAL. THE USE OF A MANUFACTURED RESTRAINED JOINT PIPE IS ACCEPTABLE WITH PRIOR APPROVAL OF THE MUNICIPAL WATER DEPARTMENT.

4.) ALL FITTINGS SHALL BE CAST IRON OR DUCTILE IRON, MECHANICAL JOINT, CLASS 250 AND CONFORM TO ANSI/AWWA CIIO/A21.10 FOR DUCTILE AND GRAY IRON FITTINGS OR ANSI/AWWA CI53/A21.53 FOR DUCTILE IRON COMPACT FITTINGS, LATEST REVISION.

5.) ALL VALVES 4 TO 12 INCHES SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANSI/AWWA C509, LATEST REVISION, SUCH AS MUELLER MODEL A-2360-23 OR APPROVED EQUAL. ALL GATE VALVES SHALL OPEN LEFT (COUNTERCLOCKWISE).

6.) TAPPING SLEEVE SHALL BE MECHANICAL JOINT SUCH AS MUELLER H-615 OR EQUAL. TAPPING VALVES 4 TO 12 INCHES SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANSI/AWWA C509, LATEST REVISION, SUCH AS MUELLER MODEL T-2360-19 OR APPROVED EQUAL. ALL TAPPING SLEEVES AND VALVES SHALL BE TESTED TO 150 PSI MINIMUM+ TESTING OF THE TAPPING SLEEVE AND VALVE MUST BE WITNESSED AND ACCEPTED BY THE MUNICIPAL WATER DEPARTMENT PRIOR TO CUTTING INTO THE PIPE.

7.) HYDRANTS SHALL BE DRY-BARREL HYDRANTS, TYPE MUELLER SUPER CENTURION, IN ACCORDANCE WITH AWWAC502. HYDRANTS SHALL HAVE A MAIN VALVE SIZE OPENING OF FIVE INCHES NOMINAL, ONE (1) FIVE-INCH STORZ DISHARGE, TWO (2) TWO-AND-A-HALF-INCH NST HOSE NOZZLES, A ONE-AND-ONE-HALF-INCH PENTAGON OPERATING NUT AND A SIX-INCH MECHANICAL JOINT INLET SHOW CONNECTION WITH ACCESSORIES. THE HYDRANT DIRECTION OF OPENING SHALL BE LEFT (COUNTERCLOCKWISE).

8.) ALL WATER SERVICE LINES TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING. CORPORATION STOPS SHALL BE MUELLER H-15020N FOR 3/4 AND I INCH, MUELLER H-15000N OR B-25000N FOR I 1/2 AND 2 INCH SIZES. CURB VALVES SHALL BE MUELLER H-1502-2N FOR 3/4 AND I INCH AND MUELLER B-25204N FOR I I/2 AND 2 INCH SIZES. CURB BOXES SHALL BE MUELLER H-10314N FOR 3/4 AND I INCH AND MUELLER H-10310N FOR I 1/2 AND 2 INCH SIZES.

9.) ALL PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE MUNICIPAL WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS AS REQUIRED WITH THE LOCAL MUNICIPALITIES AND THE MUNICIPAL WATER DEPARTMENT. ALL DUCTILE IRON PIPES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA STANDARD C600-17 OR LATEST REVISION.

IO.) THE WATER MAIN SHALL BE TESTED, DISINFECTED AND FLUSHED IN ACCORDANCE WITH TOWN OF NEWBURGH, ORANGE COUNTY DEPARTMENT OF HEALTH, NEW YORK STATE DEPARTMENT OF HEALTH REQUIREMENTS AND AWWA STANDARD C651-14 OR LATEST REVISION REQUIREMENTS. ALL TESTING, DISINFECTION AND FLUSHING SHALL BE COORDINATED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT. PRIOR TO PUTTING THE WATER MAIN IN SERVICE, SATISFACTORY SANITARY RESULTS FROM A CERTIFIED LAB MUST BE SUBMITTED TO THE TOWN OF NEWBURGH. THE TEST SAMPLES MUST BE COLLECTED BY A REPRESENTATIVE OF THE TESTING LABORATORY.

I.) A BACKFLOW PREVENTION DEVICE (RPZ) IS REQUIRED TO BE DESIGNED AND INSTALLED ON THE DOMESTIC WATER SUPPLY LINE AS PART OF THE BUILDING PLUMBING PLANS. A DOUBLE CHECK VALVE SHALL BE DESIGNED AND INSTALLED ON THE FIRE SUPPRESSION LINE AS PART OF THE BUILDING PLUMBING PLANS. THE BACKFLOW PREVENTION DEVICE AND DOUBLE CHECK VALVE SHALL BE REVIEWED AND APPROVED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH PRIOR TO INSTALLATION.

12.) THE FINAL LAYOUT OF THE PROPOSED WATER CONNECTION, INCLUDING ALL MATERIALS, SIZE AND LOCATION OF THE SERVICE AND ALL APPURTENANCES, IS SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWN OF NEWBURGH WATER DEPARTMENT. NO PERMITS SHALL BE ISSUED FOR A WATER CONNECTION UNTIL A FINAL LAYOUT IS APPROVED BY THE RESPECTIVE DEPARTMENT.

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WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYORS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS, OR SUBSEQUENT OWNERS."	2 1 NO.	4-22-22 2-11-22 DATE	PLAN REVISIONS, COMMENTS DETAILED SITE PLAN REVISION	ZAP ZAP BY

(IN FEET

GRAPHIC SCALE

1 inch = 20 ft.

MAP CK:





Planting Soil Notes:

I.) ALL PLANTING AREAS SHOULD HAVE A MINIMUM OF TWO (2) FEET OF TOPSOIL COMPOST MIX. ALL TREES PLANTED INDIVIDUALLY MUST HAVE TOPSOIL COMPOST MIX AT TWO TIMES THE WIDTH OF THE BALL AT THE SAME DEPTH OF THE BALL.

2.) TOPSOIL-COMPOST MIX SHALL CONSIST OF 85%-90% STOCKPILED TOPSOIL (IF AVAILABLE) AND 10%-15% WELL-ROTTED COMPOST. TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE SOIL, CHARACTERISTICS OF PRODUCTIVE SOIL IN THE VICINITY, REASONABLY FREE FROM STONES, CLAY LUMPS, ROOTS, AND OTHER FOREIGN MATTER, WITH AN ACIDITY LEVEL BETWEEN 5.5 AND 7 pH. IF STOCKPILED TOPSOIL IS NOT AVAILABLE, USE PURCHASED TOPSOIL IN SUFFICIENT QUANTITY TO COMPLETE THE REQUIREMENTS AS SPECIFIED. PURCHASED SOIL SHALL MEET THE FOLLOWING PARTICLE SIZE DISTRIBUTIONS:

- LESS THAN OR EQUAL TO 15% OF GRAVEL (>2.00 mm)
- 40%-60% OF SAND (0.05-2.00 mm); - 30%-40% OF SILT (0.002-0.05 mm);
- 10%-20% CLAY (<0.002 mm) - 10%-15% WELL-ROTTED TOPSOIL WITH AN ACIDITY LEVEL 5.5-7.0 pH

TOPSOIL AND PURCHASED TOPSOIL SHALL BE SUBJECT TO APPROVAL BY A LANDSCAPE ARCHITECT.

3.) PLANTS SHOULD BE INSPECTED BEFORE PLANTING. DEAD PLANTS SHOULD BE REPLACED ONCE OR TWICE A YEAR DURING THE GROWING SEASON UNTIL THE TWO-YEAR WARRANTY PERIOD IS PASSED. SUCCESSFUL PLANT ACCLIMATION IS HIGHLY DEPENDENT ON PLANTING IN HIGH QUALITY SOIL. LANDSCAPE BOND WILL ONLY BE RELEASED UPON SUCCESSFUL PLANT ACCLIMATION.

4.) CONTRACTOR/APPLICANT IS RESPONSIBLE FOR CONTACTING THE TOWN LANDSCAPE ARCHITECT TO INSPECT SOILS AT THE BEGINNING OF SOIL WORK TO ENSURE SOIL MEETS SPECIFICATIONS ON THE APPROVED PLAN. PROFESSIONAL SOIL ANALYSIS MAY BE REQUIRED.

5.) SOILS SHOULD BE INSPECTED AGAIN BEFORE PLANTING OPERATIONS BEGIN.

6.) PLANTS SHOULD ALSO BE INSPECTED BEFORE PLANTING TO ENSURE PLANTS PROVIDED MEET SIZE SPECIFICATIONS AND ARE THE SAME SPECIES AS SPECIFIED.

7.) LANDSCAPING SHALL BE INSPECTED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). SOIL QUALITY IS DETERMINES IF PLANTS LIVE, DIE, LANGUISH, OR THRIVE. INSTALLATION OF SOIL AS DEFINED ON THE PLAN IS IMPORTANT FOR A CERTIFICATE OF OCCUPANCY (CO) AND RELEASE OF THE LANDSCAPING BOND.

8.) A PARTIAL RELEASE OF THE LANDSCAPING BOND CAN BE REQUESTED AFTER ONE (I) YEAR, AND WILL BE RECOMMENDED FOR APPROVAL, IF MORE THAN NINETY PERCENT (90%) OF THE PLANTS, INCLUDING GROUND COVERS, ARE IN GOOD HEALTH AT THE TIME OF INSPECTION. A FULL RELEASE OF THE BOND AFTER TWO (2) YEARS WILL BE RECOMMEND FOR APPROVAL IF NINETY PERCENT (90%) OF PLANTS ARE IN GOOD HEALTH AT THE TIME OF INSPECTION. IF MORE THAN TEN PERCENT (10%) OF THE PLANTS ARE NOT IN GOOD HEALTH, RECOMMENDATION FOR RELEASE OF THE BOND CANNOT BE MADE. PLANTS WILL NEED TO BE REPLACED AND MUST LIVE FOR ANOTHER YEAR BEFORE THE BOND CAN BE RECOMMENDED FOR RELEASE. THE CONTRACTOR MUST INSTALL SOIL AS DEFINED ON THE PLANS (AND THE PLANTS MUST BE APPROPRIATELY WATERED) FOR THE LANDSCAPING TO MEET REQUIREMENTS AND FOR RELEASE OF THE LANDSCAPING BOND TO BE RECOMMENDED.

Landscaping Notes:

I.) TOPSOIL SHALL BE SPREAD OVER ALL DISTURBED AREAS TO A MINIMUM COMPACTED THICKNESS OF 4". TOPSOIL SHALL BE FINELY GRADED AND LOOSENED TO REMOVE STONES AND ENSURE SEED ACCEPTANCE. SEE PLANTING SOIL NOTE I FOR REQUIRED TOPSOIL DEPTHS IN PLANTING AREAS.

2.) ALL DISTURBED AREAS NOT ENCUMBERED BY LANDSCAPING MULCH, PAVEMENT, CONCRETE, GRAVEL, OR OTHER IMPERVIOUS COVER WITHOUT A SPECIFIED GROUNDCOVER SHALL BE STABILIZED WITH A PERMANENT CONSTRUCTION AREA PLANTING MIXTURE IN ACCORDANCE WITH TABLE 4.4 OF THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" AND THE PERMANENT GRASS BLEND SPECIFICATION SHOWN ON THIS SHEET.

4.) TREE AND SHRUB PLANTING SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: SPRING PLANTING: MARCH I - JUNE 30 FALL PLANTING: SEPTEMBER I - NOVEMBER I

5.) PLANTING BEDS SHALL BE INSTALLED AROUND ALL PROPOSED TREES AND SHRUBS IMMEDIATELY FOLLOWING INSTALLATION. PLANTING BEDS SHALL CONSIST OF HARDWOOD MULCH. SEE PLANTING SOIL NOTES FOR SOIL REQUIREMENTS WITHIN PLANTING BEDS.
6.) STEEP SLOPES AND OTHER SPECIFIED AREAS SHALL BE STABILIZED WITH A WILDFLOWER MIX. THE MIX SHALL BE 'NATIVE NORTHEAST WILDFLOWER MIX' AS MANUFACTURED BY AMERICAN MEADOWS, OR APPROVED EQUIVALENT.





Landscaping Detail

			Site F	Planting	Table			
	KEY	COMMON NAME	BOTANICAL NAME	QUANTITY	ТУРЕ	HARIDNESS ZONE	PLANTING SIZE	MATURE SIZE
	Ac	SHADBLOW SERVICEBERRY	AMELANCIER CANADENSIS	22	DECIDUOUS TREES	3 - 7	8' - 10' HGT.	20' - 30'
	Ar	RED MAPLE	ACER RUBRUM	3	DECIDUOUS TREES	3 - 9	2.0 - 2.5" C.	40' - 60'
	Ns	BLACK TUPELO	NYSSA SYLVATICA	3	DECIDUOUS TREES	4 - 9	1.0" - 1.5" C.	30' - 50'
	Fi	FORSYTHIA	FORSYTHIA X INTERMEDIA	49	DECIDUOUS SHRUBS	5 - 8	5' - 6' HGT.	6' - 10'
•	Rt	ARCTIC FIRE RED TWIG DOGWOOD	CORNUS STOLORIFERA 'ARCTIC FIRE'	38	DECIDUOUS SHRUBS	3 - 7	18'' - 24''	4' - 6'
	BmG∨	GREEN VELVET BOXWOOD	BUXUS MICROPHYLLA 'GREEN VELVET'	46	EVERGREEN SHRUBS	5 - 8	24'' - 30''	2' - 4'
	IgS	ILEX GLABRA 'SHAMROCK	SHAMROCK INKBERRY	20	evergreen Shrubs	4 - 9	18'' - 24''	3' - 5'

		"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP				
		BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A				
		VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW				
		YORK STATE EDUCATION LAW."				
		"ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY				
		MAP MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL				
		SHALL BE CONSIDERED VALID, TRUE COPIES."	⊪—			
		"CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY				
RAPHIC SCALE		WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF				
		PRACTICE FOR LAND SURVEYORS ADOPTED BY THE NEW YORK	⊪—			
20 40	80	STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.				
		SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED				
		INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO	2	4-22-22	PLAN REVISIONS, COMMENTS	ZA
(IN FEET)		ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS	1	25-11-22	DETAILED SITE PLAN	ZA
1 inch = 20 ft. MAP CK:		AND/OR ASSIGNS, OR SUBSEQUENT OWNERS."	NO.	DATE	REVISION	ВУ

Groundcover d	Specifications
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PERMANENT GRASS BLEND: MIX #6

WILDFLOWER MIX: 'NATIVE NORTHEAST WILDFLOWER MIX' AS MANUFACTURED BY AMERICAN MEAD

AS MANUFACTURED BY AMERICAN MEADOWS, OR APPROVED EQUIVALENT

Permanent Grass Blend (Mix #6)

SEED MIXTURE	VARIETY	SEEDING RATE (LBS PER ACRE)	SEEDING RATE (LBS PER 1,000 S.F.)
CREEPING RED FESCUE	ENSYLVA, PENNLAWN, BOREAL	20	0.45
CHEWINGS FESCUE	COMMON	05	0.45
PERENNIAL RYEGRASS	PENNFINE, LINN	5	0.10
RED CLOVER	COMMON	10	0.45











Lighting Notes:

I.) ALL LIGHT INTENSITIES PROVIDED BY: RC LURIE II22 NORTH 7TH STREET PHOENIX, AZ 85006 (602) 817-1925 RCLURIE.COM





Lighting Detail

PROPOSED POLE MOUNTED FIXTURE (SEE LIGHTING SCHEDULE)

PROPOSED WALL MOUNTED FIXTURE (SEE LIGHTING SCHEDULE)

2.) ALL LIGHTING FIXTURES SHALL BE DOWNWARD FACING.

LIGHT	LABEL	MA
А	WST LED PI 40K VF MVOLT DDBXD	LIT
В	WST LED PI 40K VF MVOLT DDBXD EL	LIT
С	DSX2 LED P4 40K T4M MVOLT HS DDBXD SSS	LIT
D	DSX2 LED P4 40K BLC MVOLT DDBXD SSS	LIT
E	DSX2 LED P4 40K RCCO MVOLT DDBXD SSS	LIT

Lighting	Schedule
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IANUFACTURER	QUANTITY
ITHONIA LIGHTING	6
ITHONIA LIGHTING	3
ITHONIA LIGHTING	1
ITHONIA LIGHTING	2
ITHONIA LIGHTING	1

CALCULATION SUMMARY

ſ						
	LABEL	AVG	MAX	MIN		
	SITE FT-C © GRADE	0.6	11.3	0.0		
	*MAX LEVEL BELOW WALL-PACK FIXTURE ON FREE-STANDING SELF-STORAGE BUILDINGS.					

"UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP				
BEARING A LICENSED LAND SURVEYOR'S EMBOSSED SEAL IS A				
VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW				
YORK STATE EDUCATION LAW."				
"ONLY COPIES FROM THE ORIGINAL TRACING OF THIS SURVEY				
MAP MARKED WITH THE LAND SURVEYOR'S EMBOSSED SEAL				
SHALL BE CONSIDERED VALID, TRUE COPIES."				
"CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY				
WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF				
PRACTICE FOR LAND SURVEYORS ADOPTED BY THE NEW YORK				
STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.				
SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED				
INDIVIDUALS AND/OR INSTITUTIONS FOR WHOM THE SURVEY				
WAS PREPARED. CERTIFICATIONS ARE NOT TRANSFERABLE TO				
ADDITIONAL INDIVIDUALS, INSTITUTIONS, THEIR SUCCESSORS	1	2-11-22	DETAILED SITE PLAN	ZAI
AND/OR ASSIGNS, OR SUBSEQUENT OWNERS."	NO.	DATE	REVISION	ВУ

GRAPHIC SCALE



MOUNTING LOCATION	MOUNTING HEIGHT	COLOR TEMP	LUMENS	BUG RATING
WALL	15-FT	4000K	1,639	BO-UO-GO
WALL	10-FT	4000K	1,639	B <i>O-UO-GO</i>
POLE	25-FT	4000K	25,364	ВЗ- <i>UО-G5</i>
POLE	25-FT	4000K	27,374	B2 <i>-U0-G</i> 4
POLE	25-FT	4000K	20,369	B2-UO-G4

