



# TOWN OF NORTH CASTLE

WESTCHESTER COUNTY  
17 Bedford Road  
Armonk, New York 10504-1898

Telephone: (914) 273-3000 x 43  
Fax: (914) 273-3554  
www.nortcastleny.com

RESIDENTIAL PROJECT  
REVIEW COMMITTEE  
Adam R. Kaufman AICP, Chair

## RESIDENTIAL PROJECT REVIEW COMMITTEE (RPRC) APPLICATION

### Section I- PROJECT

ADDRESS: 26 BLAIR RD

### Section III- DESCRIPTION OF WORK:

PROPOSED IN-GROUND SWIMMING POOL, STONE PATIO, STONE STEPS, FIRE PIT  
STONE SEPTWALL, + OUTDOOR KITCHEN

### Section III- CONTACT INFORMATION:

APPLICANT: DANIEL SHERMAN  
ADDRESS: 4 BROADWAY SUITE #9, VALHALLA, NY 10595  
PHONE: 914-824-0999 MOBILE: 914-755-0855 EMAIL: DAN.DAN.SHERMAN@LANDSCAPE@GMAIL.COM

PROPERTY OWNER:  
MARTIN + BLAKELY BRODBECK  
ADDRESS: 26 BLAIR RD, ARMONK, NY 10504  
PHONE: 914-439-3201 MOBILE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

PROFESSIONAL: DANIEL SHERMAN  
ADDRESS: 4 BROADWAY, SUITE #9, VALHALLA, NY 10595  
PHONE: 914-824-0999 MOBILE: 914-755-0855  
EMAIL: DAN.DAN.SHERMAN@LANDSCAPE@GMAIL.COM

### Section IV- PROPERTY INFORMATION:

Zone: R-2A Tax ID (lot designation) 2-8-13.E-48



**Town of North Castle**  
**Residential Project Review Committee**  
17 Bedford Road Armonk, New York 10504  
(914) 273-3542 (914) 273-3554 (fax)

**RPRC COMPLETENESS REVIEW FORM**

*This form represents the standard requirements for a completeness review for all Residential Project Review Committee submissions. Failure to provide all of the information requested will result in a determination that the application is incomplete.*

Project Name on Plan:

BRODBECK RESIDENCE

Initial Submittal  Revised Preliminary

Street Location:

26 BLAIR RD

Zoning District: R-2A Property Acreage: 2 Tax Map Parcel ID: 2-8-13.15-48

Date: 11/2/20

**DEPARTMENTAL USE ONLY**

Date Filed: \_\_\_\_\_ Staff Name: \_\_\_\_\_

**Preliminary Plan Completeness Review Checklist**

Items marked with a  are complete, items left blank  are incomplete and must be completed, "NA" means not applicable.

1. Plan prepared by a registered architect or professional engineer
2. Aerial photo (Google Earth) showing the applicant's entire property and adjacent properties and streets
3. Map showing the applicant's entire property and adjacent properties and streets
4. A locator map at a convenient scale
5. The proposed location, use and design of all buildings and structures
6. Existing topography and proposed grade elevations
7. Location of drives
8. Location of all existing and proposed site improvements, including drains, culverts, retaining walls and fences

**RPRC COMPLETENESS REVIEW FORM**

Page 2

<input type="checkbox"/>	9. Description of method of water supply and sewage disposal and location of such facilities
<input type="checkbox"/>	10. The name and address of the applicant, property owner(s) if other than the applicant and of the planner, engineer, architect, surveyor and/or other professionals engaged to work
<input type="checkbox"/>	11. Submission of a Zoning Conformance Table depicting the plan's compliance with the minimum requirements of the Zoning District
<input type="checkbox"/>	12. If a tree removal permit is being sought, submission of a plan depicting the location and graphical removal status of all Town-regulated trees within the proposed area of disturbance. In addition, the tree plan shall be accompanied by a tree inventory includes a unique ID number, the species, size, health condition and removal status of each tree.
<input type="checkbox"/>	13. If a wetlands permit is being sought, identification of the wetland and the 100-foot wetland buffer.

More information about the items required herein can be obtained from the North Castle Planning Department. A copy of the Town Code can be obtained from Town Clerk or on the North Castle homepage: <http://www.northcastleny.com/townhall.html>

_____	On this date, all items necessary for a technical review of the proposed site plan have been submitted and constitute a COMPLETE APPLICATION.
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**TOWN OF NORTH CASTLE**  
**WESTCHESTER COUNTY**  
 17 Bedford Road  
 Armonk, New York 10504-1898

**PLANNING DEPARTMENT**  
**Adam R. Kaufman, AICP**  
**Director of Planning**

**Telephone: (914) 273-3542**  
**Fax: (914) 273-3554**  
[www.northcastleny.com](http://www.northcastleny.com)

**GROSS LAND COVERAGE CALCULATIONS WORKSHEET**

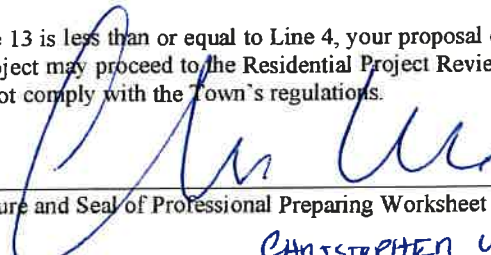
Application Name or Identifying Title: 26 BLAIRE RD Date: 11/3/20

Tax Map Designation or Proposed Lot No.: 101.04-1-34

Gross Lot Coverage

- |     |   |               |
|-----|---|---------------|
| 1.  | Total lot Area (Net Lot Area for Lots Created After 12/13/06):  | <u>87,120</u> |
| 2.  | <b>Maximum</b> permitted gross land coverage (per Section 355-26.C(1)(a)):  | <u>13,270</u> |
| 3.  | <b>BONUS</b> maximum gross land cover (per Section 355-26.C(1)(b)):   |               |
|     | Distance principal home is beyond minimum front yard setback<br><u>20.5</u> x 10 =  | <u>205</u>    |
| 4.  | <b>TOTAL Maximum Permitted gross land coverage</b> = Sum of lines 2 and 3   | <u>13,475</u> |
| 5.  | Amount of lot area covered by <b>principal building</b> :<br><u>4,003</u> existing + <u>0</u> proposed =                  | <u>4,003</u>  |
| 6.  | Amount of lot area covered by <b>accessory buildings</b> :<br>_____ existing + <u>220</u> proposed =                      | <u>220</u>    |
| 7.  | Amount of lot area covered by <b>decks</b> :<br><u>998</u> existing + <u>428</u> proposed =                               | <u>1426</u>   |
| 8.  | Amount of lot area covered by <b>porches</b> :<br><u>0</u> existing + <u>0</u> proposed =                                 | <u>0</u>      |
| 9.  | Amount of lot area covered by <b>driveway, parking areas and walkways</b> :<br><u>2470</u> existing + <u>0</u> proposed = | <u>2470</u>   |
| 10. | Amount of lot area covered by <b>terraces</b> :<br><u>0</u> existing + <u>1800</u> proposed =                             | <u>1800</u>   |
| 11. | Amount of lot area covered by <b>tennis court, pool and mechanical equip</b> :<br>_____ existing + <u>945</u> proposed =  | <u>945</u>    |
| 12. | Amount of lot area covered by <b>all other structures</b> :<br><u>0</u> existing + <u>0</u> proposed =                    | <u>0</u>      |
| 13. | <b>Proposed gross land coverage:</b> Total of Lines 5 - 12 =  | <u>10864</u>  |

If Line 13 is less than or equal to Line 4, your proposal **complies** with the Town's maximum gross land coverage regulations and the project may proceed to the Residential Project Review Committee for review. If Line 13 is greater than Line 4 your proposal does not comply with the Town's regulations.

  
 \_\_\_\_\_  
 Signature and Seal of Professional Preparing Worksheet  
**CHRISTOPHER UTSCHEL**

11/3/20  
 Date



TOWN OF NORTH CASTLE  
WESTCHESTER COUNTY  
17 Bedford Road  
Armonk, New York 10504-1898

PLANNING DEPARTMENT  
Adam R. Kaufman, AICP  
Director of Planning

January 29, 2019  
Telephone: (914) 273-3542  
Fax: (914) 273-3554  
[www.northcastleny.com](http://www.northcastleny.com)

## FLOOR AREA CALCULATIONS WORKSHEET

Application Name or Identifying Title: \_\_\_\_\_ Date: \_\_\_\_\_

Tax Map Designation or Proposed Lot No.: \_\_\_\_\_

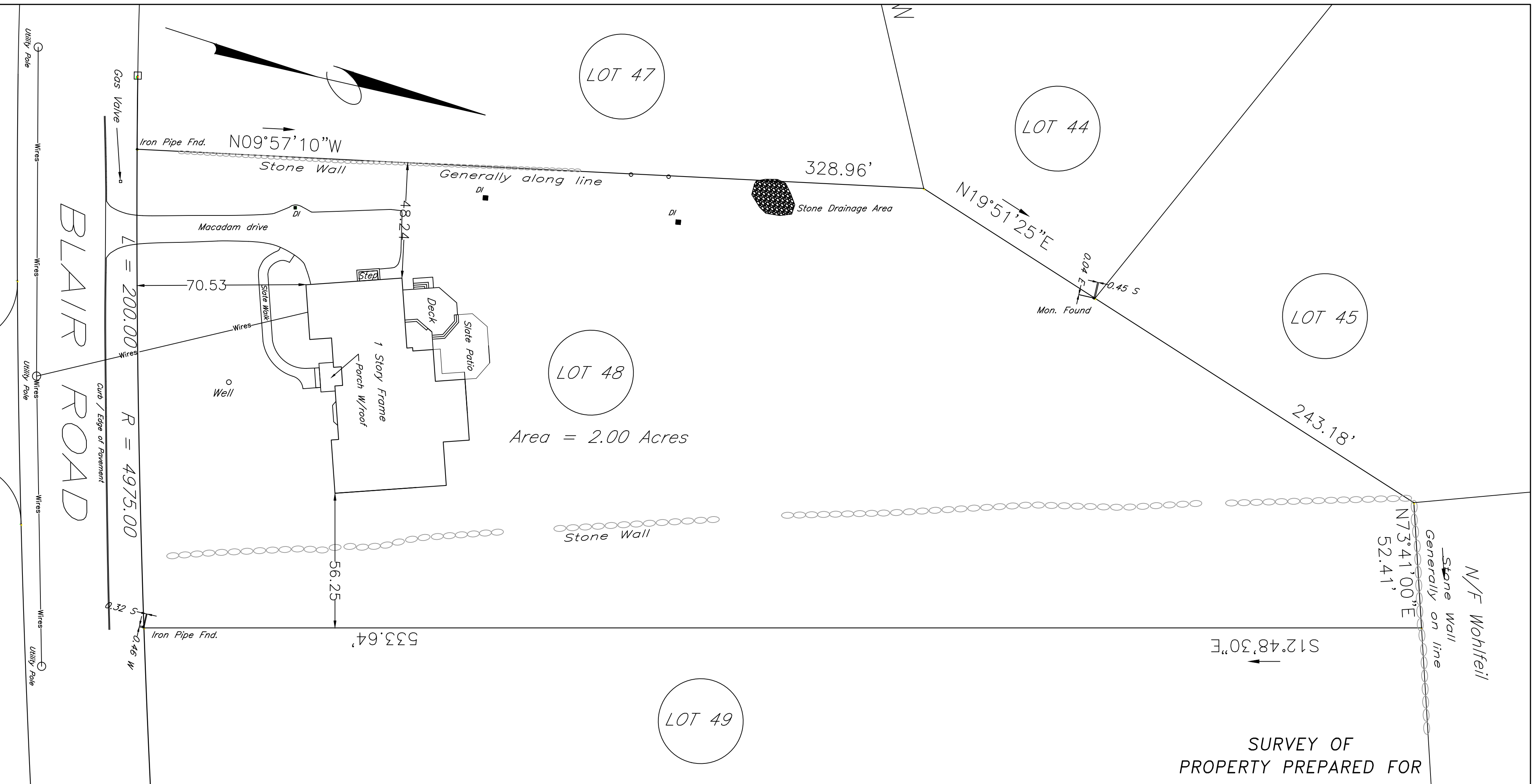
### Floor Area

1. Total Lot Area (Net Lot Area for Lots Created After 12/13/06): \_\_\_\_\_
2. **Maximum** permitted floor area (per Section 355-26.B(4)): \_\_\_\_\_
3. Amount of floor area contained within first floor:  
\_\_\_\_\_ existing + \_\_\_\_\_ proposed = \_\_\_\_\_
4. Amount of floor area contained within second floor:  
\_\_\_\_\_ existing + \_\_\_\_\_ proposed = \_\_\_\_\_
5. Amount of floor area contained within garage:  
\_\_\_\_\_ existing + \_\_\_\_\_ proposed = \_\_\_\_\_
6. Amount of floor area contained within porches capable of being enclosed:  
\_\_\_\_\_ existing + \_\_\_\_\_ proposed = \_\_\_\_\_
7. Amount of floor area contained within basement (if applicable – see definition):  
\_\_\_\_\_ existing + \_\_\_\_\_ proposed = \_\_\_\_\_
8. Amount of floor area contained within attic (if applicable – see definition):  
\_\_\_\_\_ existing + \_\_\_\_\_ proposed = \_\_\_\_\_
9. Amount of floor area contained within all accessory buildings:  
\_\_\_\_\_ existing + \_\_\_\_\_ proposed = \_\_\_\_\_
10. Proposed floor area: Total of Lines 3 – 9 = \_\_\_\_\_

If Line 10 is less than or equal to Line 2, your proposal **complies** with the Town's maximum floor area regulations and the project may proceed to the Residential Project Review Committee for review. If Line 10 is greater than Line 2 your proposal does not comply with the Town's regulations.

\_\_\_\_\_  
Signature and Seal of Professional Preparing Worksheet

\_\_\_\_\_  
Date



Area = 2.00 Acres

SURVEY OF  
 PROPERTY PREPARED FOR  
 Martin and Blakely Brodbeck  
 IN THE  
 TOWN OF North Castle  
 WESTCHESTER COUNTY, NEW YORK  
 Scale: 1" = 30'      June 1, 2016

I Richard D. Jordan jr. the surveyor who made this map, do hereby certify that this survey was completed on June 1, 2016 and this map was completed on June 1, 2016.  
 Possession only as indicated  
 The location of underground improvements, or encroachments hereon, if any exist are not certified or shown.

It is hereby certified that this survey was prepared in accordance with the existing Standards of Practice for land surveys adopted by the New York State Association of Professional Land Surveyors.  
 Certifications indicated hereon shall run only to the persons for whom the survey is prepared, and on their behalf to the title company, governmental agency and lending institution listed hereon, and to the assignees of the lending institution. Certifications are not transferable to additional institutions or subsequent owners.

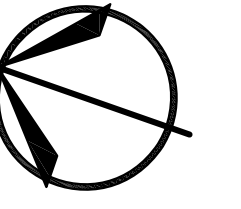
Being Lot 48 as shown on a certain map entitled, "Subdivision map, section 1B, Castle Hill, situated in the town of North Castle, Westchester Co., NY", Dated Feb. 10, 1967 and filed in the Westchester County Clerks Office, Division of Land Records, on Oct. 16, 1967, as Map # 15601

Unauthorized alteration or addition to a survey map bearing a Licensed Land Surveyors seal is a violation of Section 7208, Subdivision 2 of the New York State Education Law.  
 Only copies from the original of this survey marked with an original of the land surveyors's embossed seal shall be considered to be valid true copies.

N.Y. S. Lic. No. 050401

Richard D. Jordan Jr. LS  
 PO Box 552  
 Putnam Valley, NY 10579

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REVISION      DATE

REVISION	DATE

**BRODBECK RESIDENCE**

26 BLAIR RD  
 ARMONK, NY 10504

**OVERALL SITE PLAN**

**DANIEL SHERMAN**  
 LANDSCAPE ARCHITECT

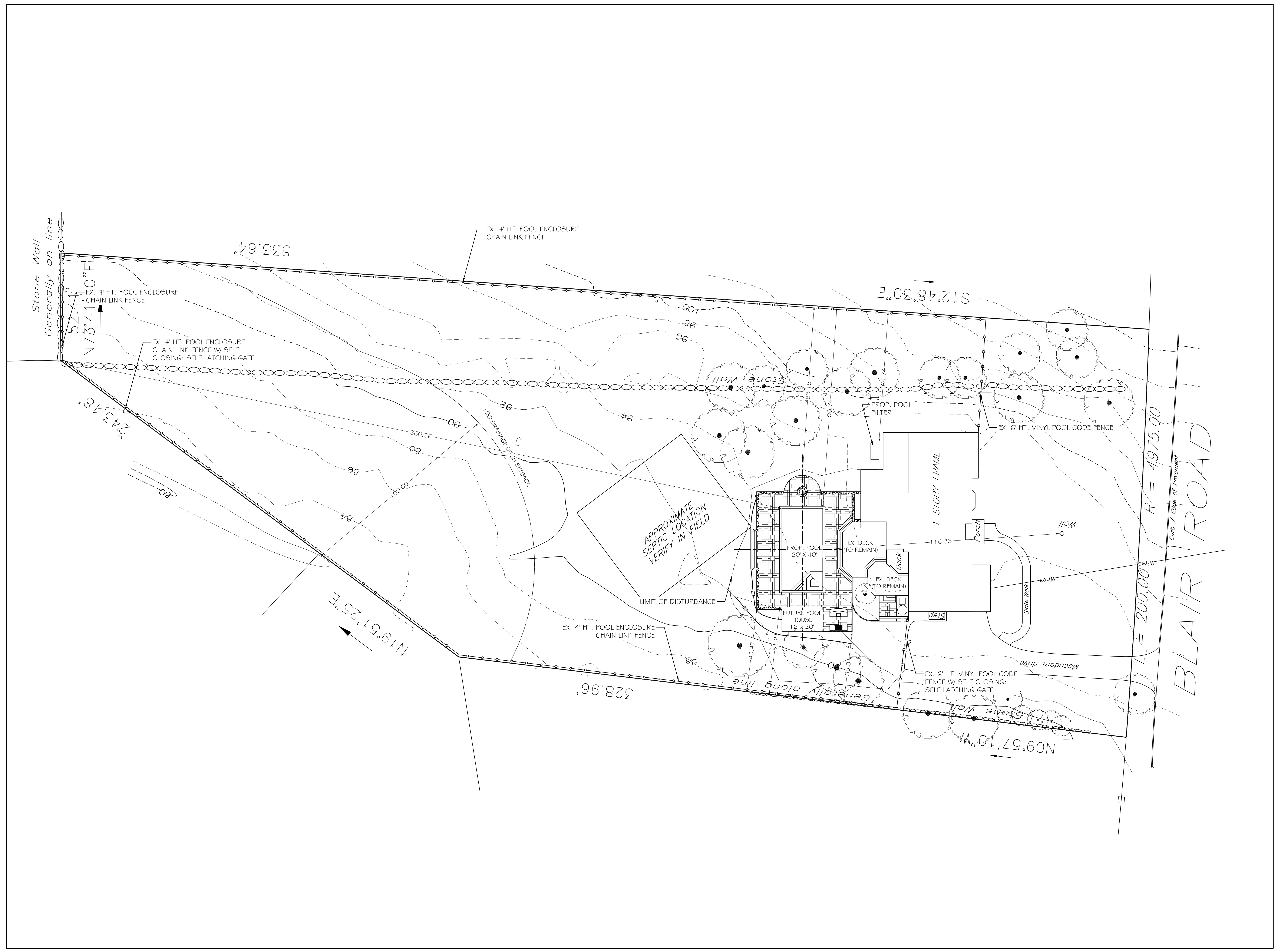
4 BROADWAY - SUITE 9  
 VALHALLA, NY 10595  
 PHONE: (914) 824 - 0999  
 FAX: (914) 824-0251

dan.danshermanlandscape@gmail.com  
 www.danshermanlandscape.com

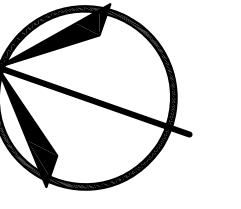


DATE: NOV. 17, 2020      SCALE: 1" = 20' - 0"

DRAWN BY: AL      DRAWING # L - 1



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REVISION      DATE

REVISION	DATE

BRODBECK RESIDENCE

26 BLAIR RD  
 ARMONK, NY 10504

SITE PLAN  
 (POOL)

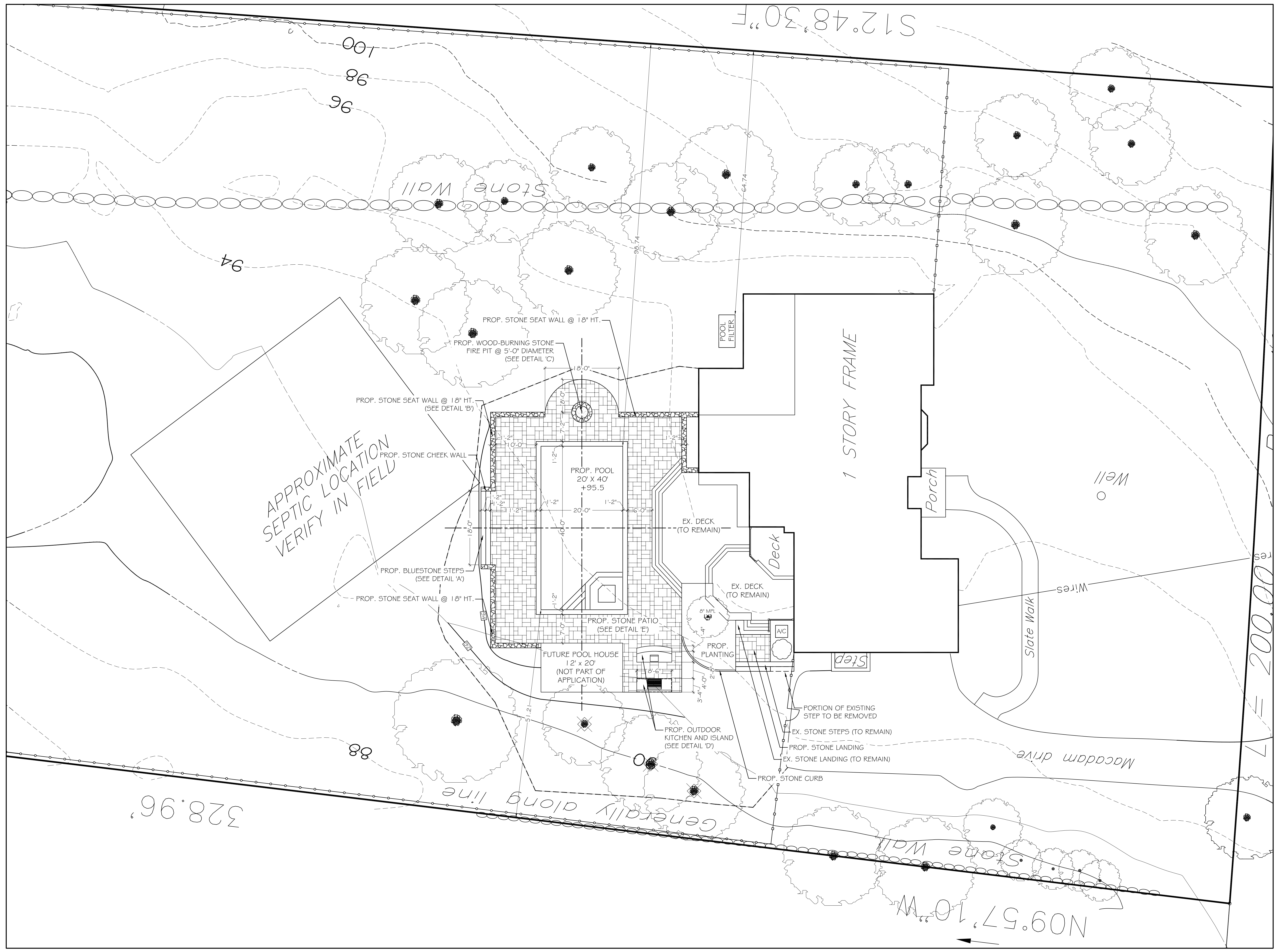
DANIEL SHERMAN  
 LANDSCAPE ARCHITECT  
 4 BROADWAY - SUITE 9  
 VALHALLA, NY 10595  
 PHONE: (914) 824 - 0999  
 FAX: (914) 824-0251

dan.danshermanlandscape@gmail.com  
 www.danshermanlandscape.com



DATE:                      SCALE:  
 NOV. 17, 2020        1" = 10' - 0"

DRAWN BY:              DRAWING #  
 AL                              L - 2



S12.48'30" F

94

100  
98  
96

APPROXIMATE  
 SEPTIC LOCATION  
 VERIFY IN FIELD

Stone Wall

1 STORY FRAME

Well

Slate Walk

Maccadam drive

res  
 LE = 200.00

328.96'

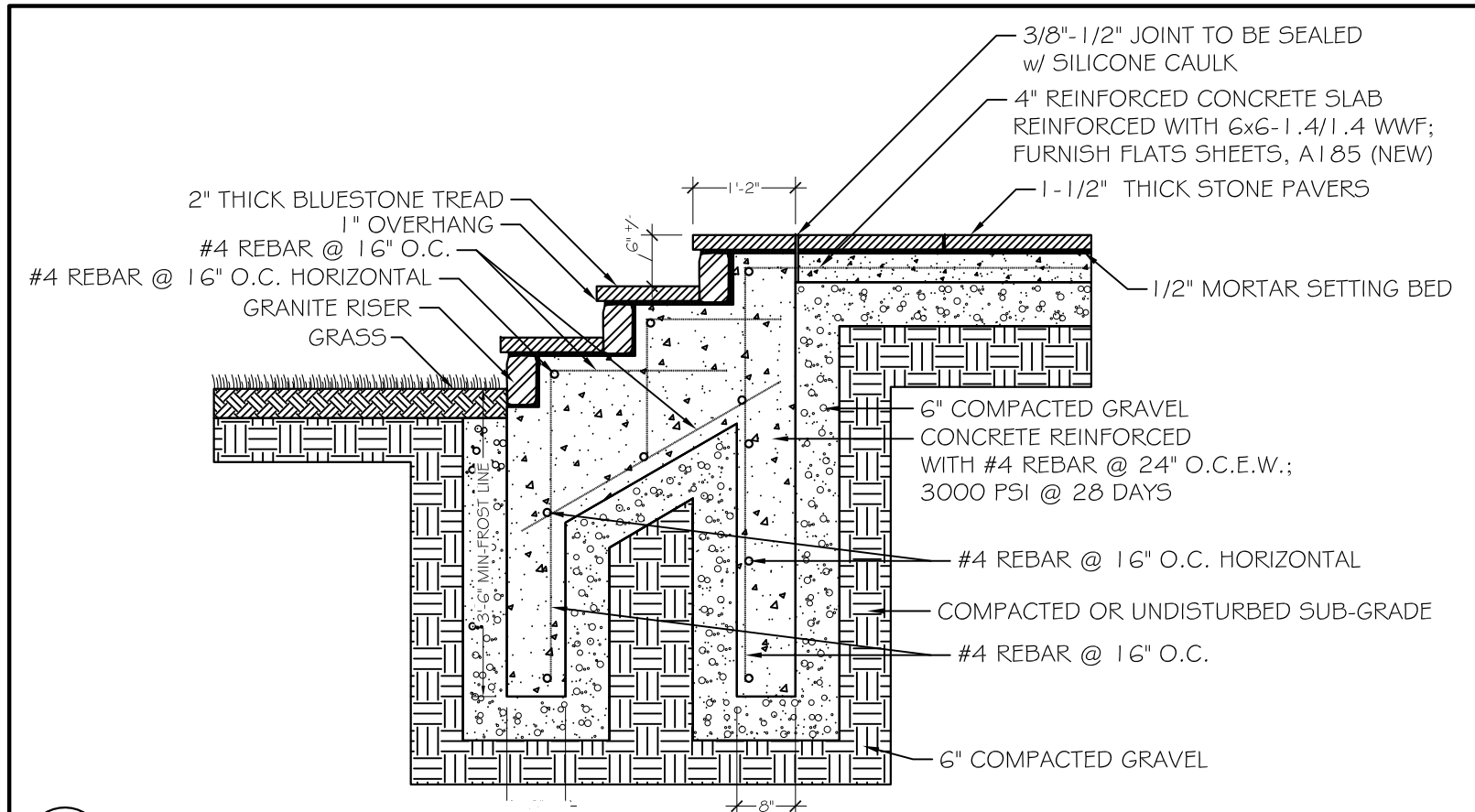
Generally along line

Stone Wall  
 N09.57'10" W

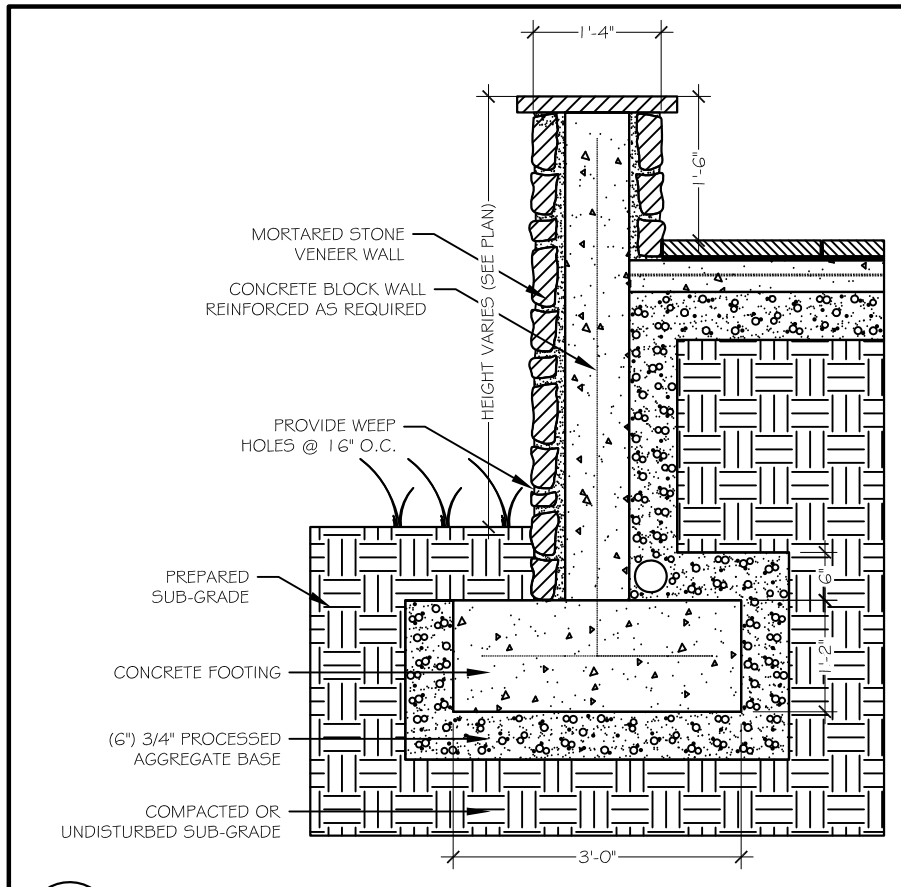


**GENERAL NOTES**

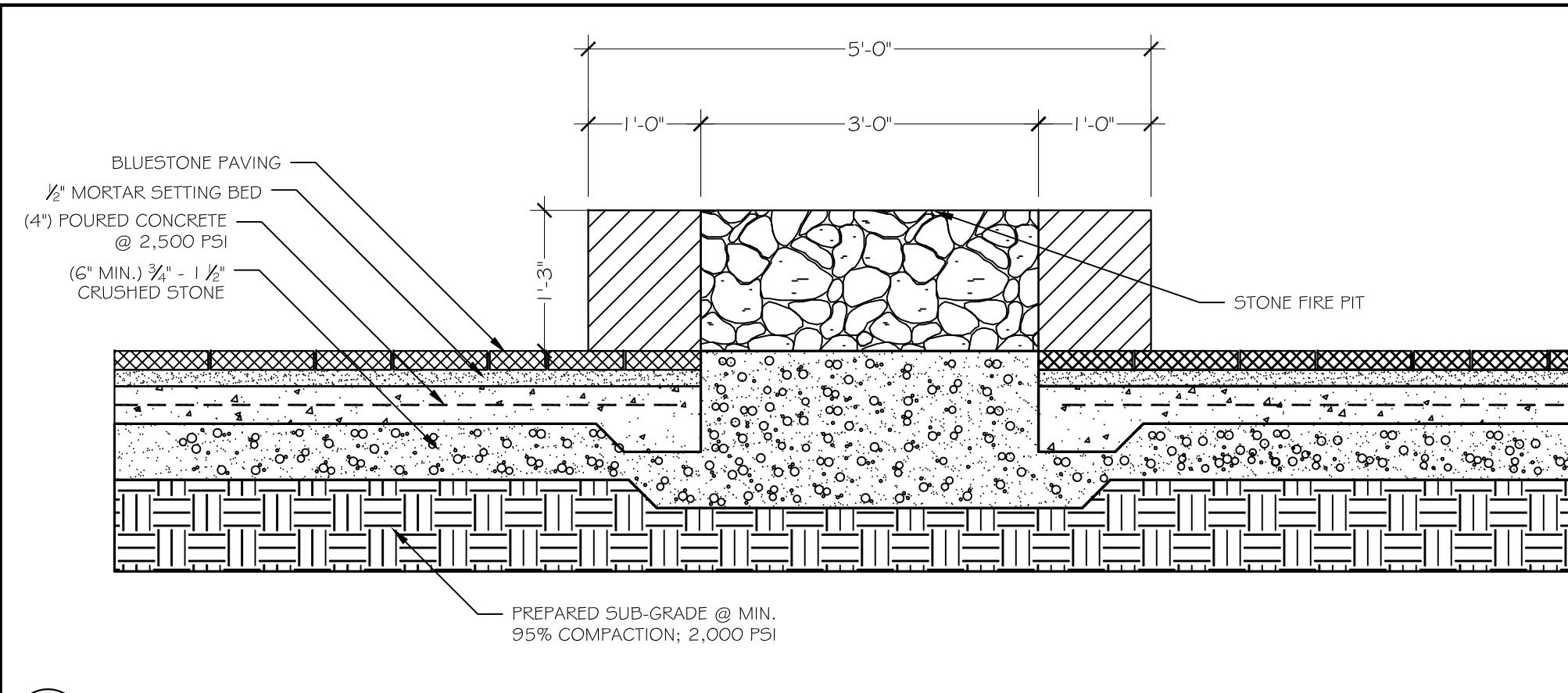
- CONTRACTOR IS TO VISIT SITE AND VERIFY ALL EXISTING CONDITIONS (INCLUDING UNDERGROUND UTILITIES, PIPES, ETC) AND LIMITATIONS AFFECTING THE PROPOSED WORK.
- ALL WORK IS TO BE PERFORMED IN COMPLIANCE WITH ALL LOCAL, STATE, AND APPLICABLE BUILDING CODE REGULATIONS.
- CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THE IS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY REPRESENTATIVES HARMLESS FROM AND ALL LIABILITY, REAL AND/OR ALLEGED, IN CONJUNCTION WITH THE PERFORMANCE OF THIS PROJECT.
- CONTRACTOR SHALL VERIFY LOCATIONS, LEVELS, DISTANCES, AND FEATURES THAT MAY AFFECT THE WORK. SHOULD EXISTING CONDITIONS DIFFER FROM THESE PLANS, STANDARD SPECIFICATIONS, AND SPECIAL PROVISIONS DO NOT ADEQUATELY DETAIL THE WORK TO BE DONE, CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO CONTINUING WITH ANY RELATED WORK. NO ALLOWANCE WILL BE MADE IN HIS BEHALF FOR ANY EXTRA EXPENSE RESULTING FROM FAILURE OR NEGLECT IN DETERMINING THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE.
- A SET OF SIGNED BLUEPRINTS AND A SET OF SPECIFICATIONS SHALL BE KEPT ON SITE AT ALL TIMES.
- CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY COMPANIES (48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO EXISTING UTILITY LINES UNLESS ENCROACHMENT PERMIT SPECIFIES OTHERWISE.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC TO THE SATISFACTION OF THE MUNICIPAL BUILDING DEPARTMENT.
- ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.



**(A) DETAIL - BLUESTONE STEPS**  
SCALE : 1/2" = 1'-0"

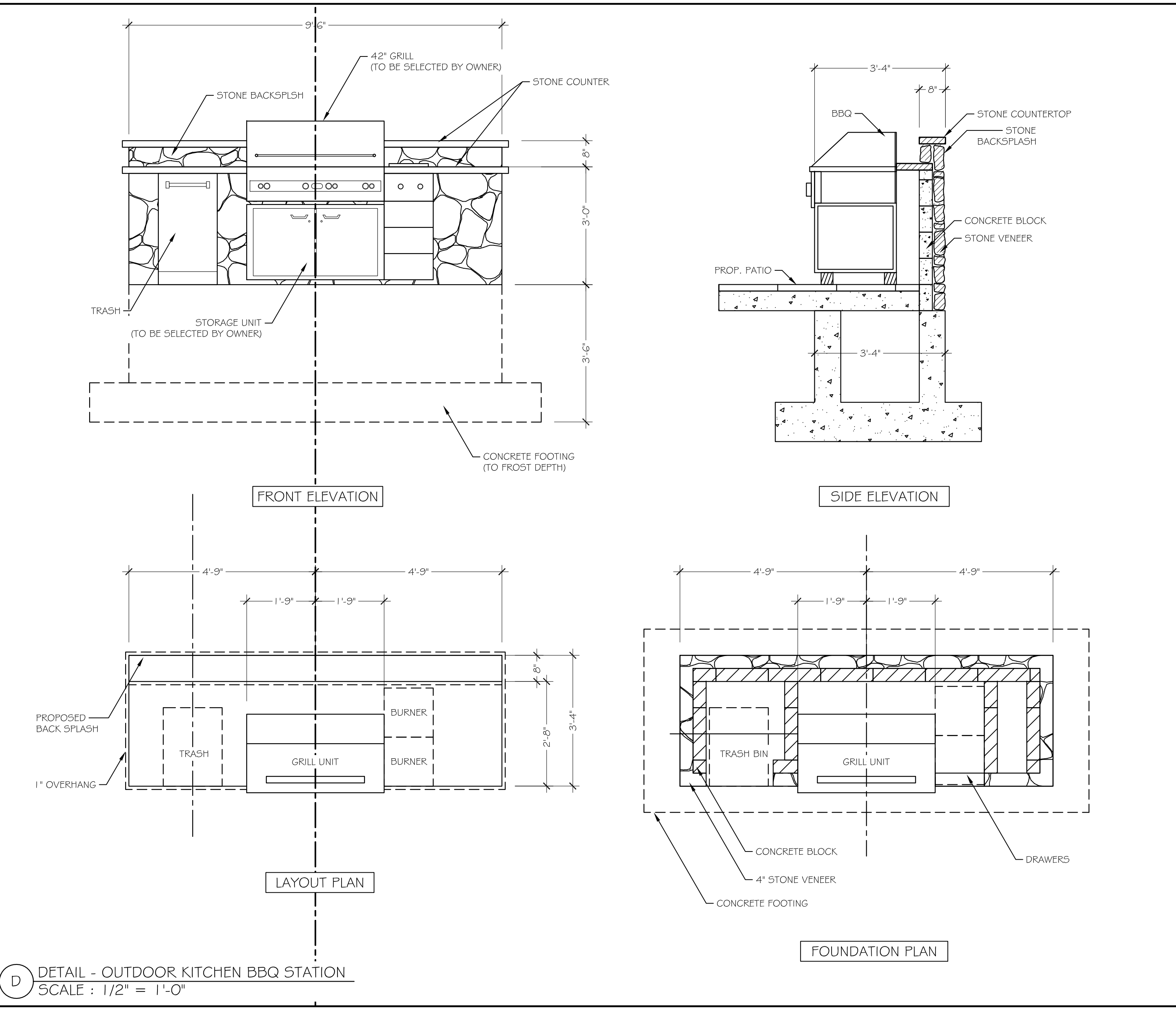


**(B) DETAIL - STONE SEATWALL**  
SCALE : 1/2" = 1'-0"

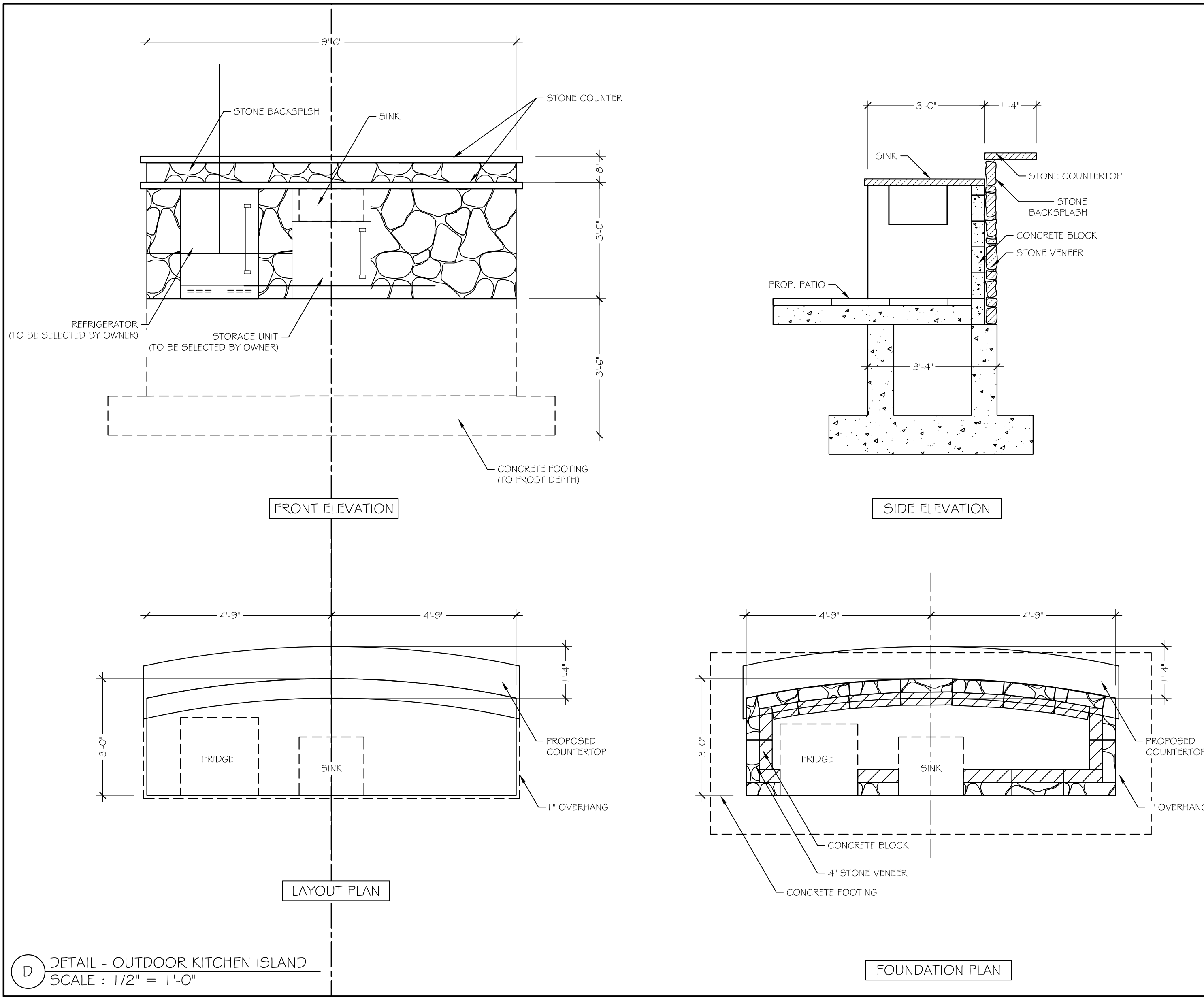


**(C) DETAIL - STONE FIRE PIT**  
SCALE : 3/4" = 1'-0"

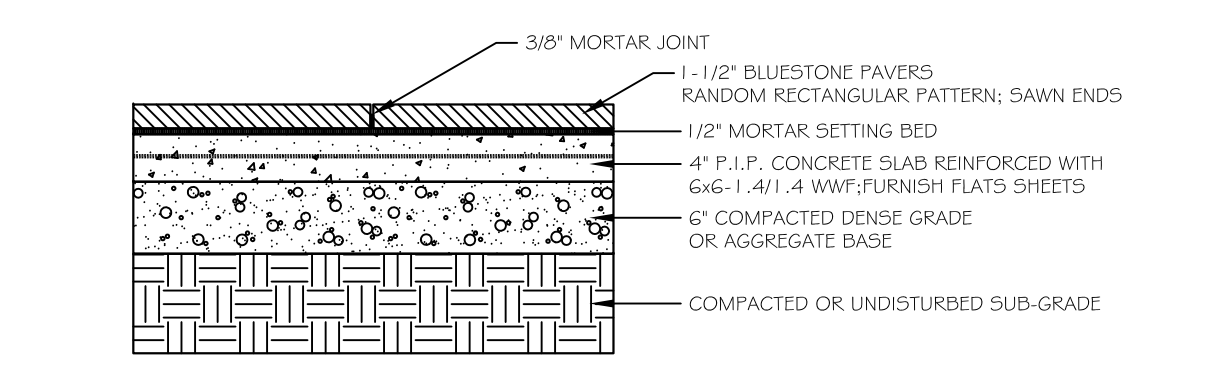
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**(D) DETAIL - OUTDOOR KITCHEN BBQ STATION**  
SCALE : 1/2" = 1'-0"



**(D) DETAIL - OUTDOOR KITCHEN ISLAND**  
SCALE : 1/2" = 1'-0"



**(E) DETAIL - BLUESTONE PAVING**  
SCALE : 3/4" = 1'-0"

**REVISION DATE**

REVISION	DATE

**BRODBECK RESIDENCE**

26 BLAIR RD  
ARMONK, NY 10504

**CONSTRUCTION DETAILS**

**DANIEL SHERMAN**  
LANDSCAPE ARCHITECT  
4 BROADWAY - SUITE 9  
VALHALLA, NY 10595  
PHONE: (914) 824 - 0999  
FAX: (914) 824-0251

dan.danshermanlandscape@gmail.com  
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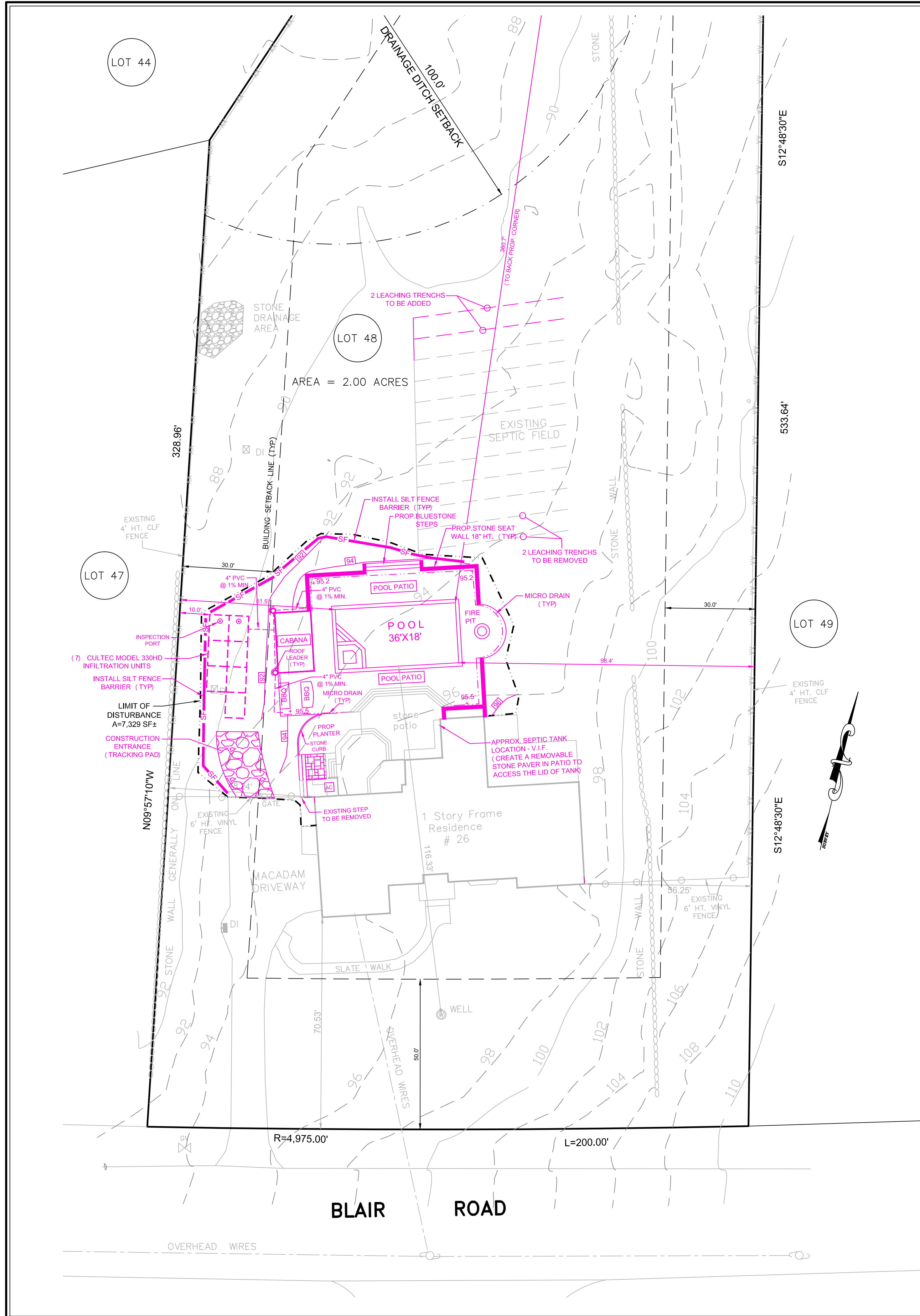


**DATE:**  
NOV. 17, 2020

**SCALE:**  
AS NOTED

**DRAWN BY:**  
AL

**DRAWING #**  
L - 3

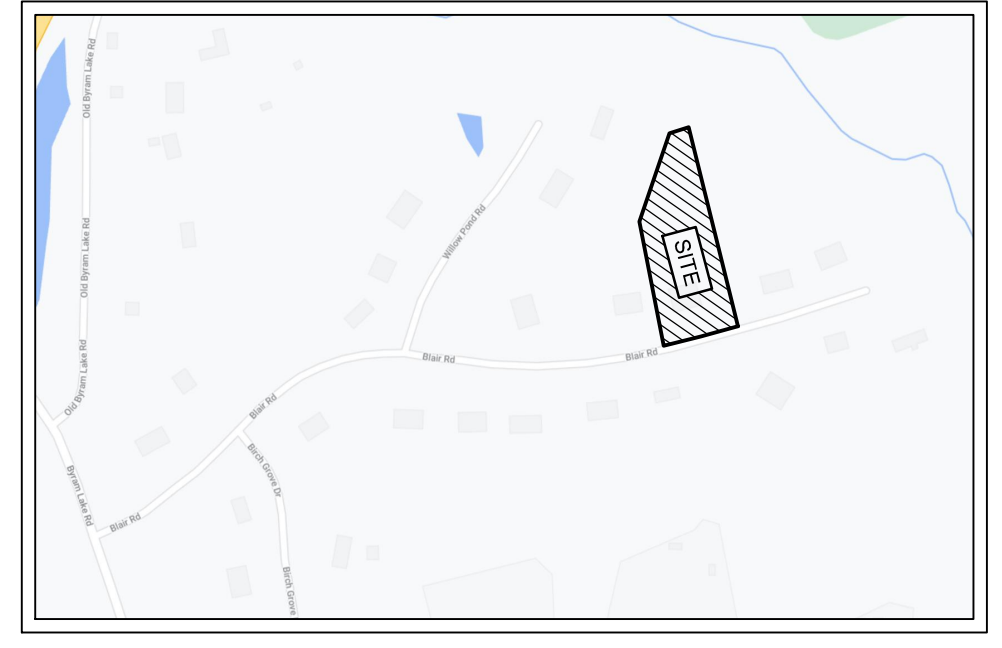


**Percolation Test No. 2 (TO BE VERIFIED W/TOWN)**

Start Time	End Time	Min. Elapsed	Depth to Water From Ground Surface Start (in.)	Stop (in.)	Water level Drop	Soil Rate Min./in. drop
9:37	9:41	4	46.5	49	2.5	1.6
9:43	9:47	4	43	46.5	2.5	1.6

**Test Pit #1 (TO BE VERIFIED W/TOWN)**

Depth 60"	Elevation ±	performed on
0-18"	377.5	3/4/20
18-54"		Fine Sand
54"-72"		Course Sand
72"		Ground Water

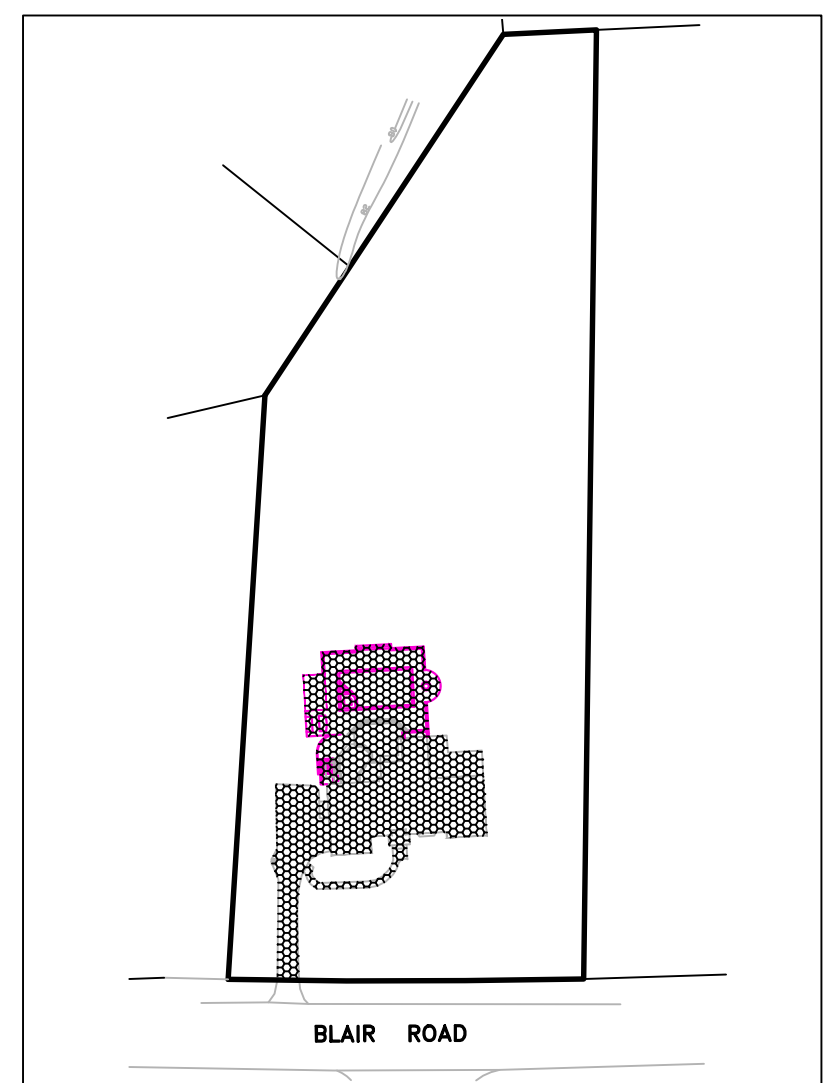
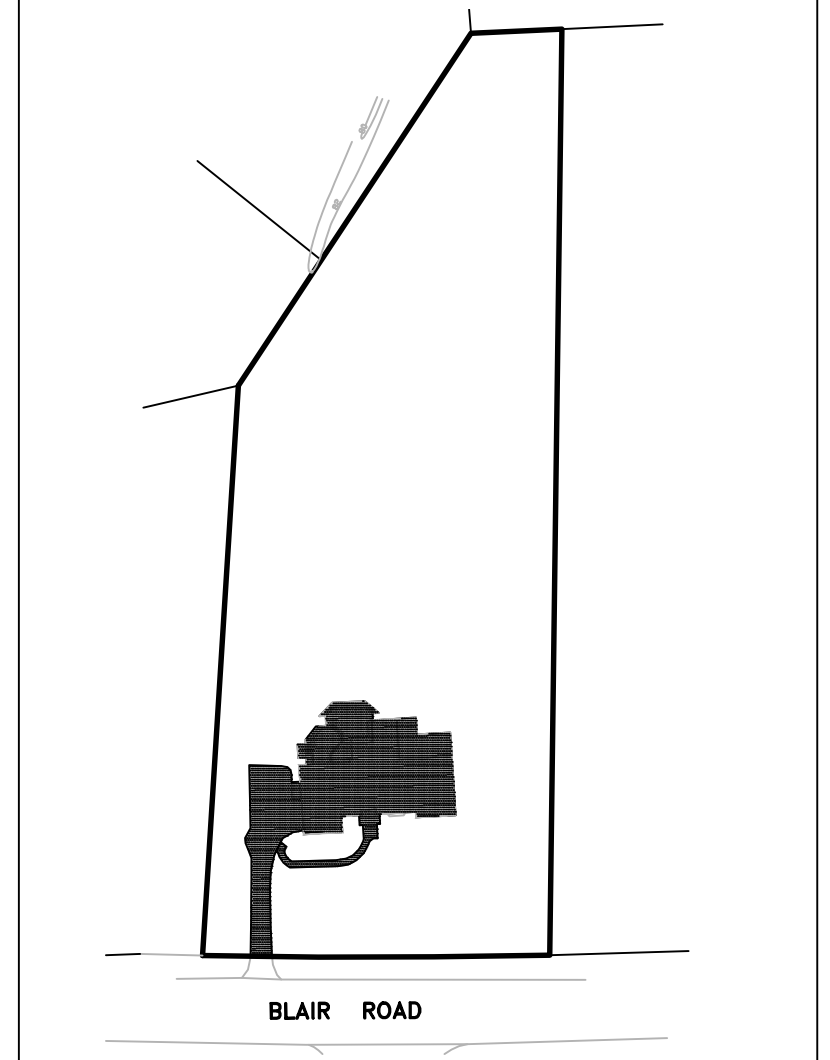


- General Notes**
- Contractor to verify all conditions and dimensions prior to the start of work, any discrepancies are to be reported to the design engineer immediately.
  - The contractor shall notify DigSafelyNY at 811, no less than two days prior to commencing excavating activities.
  - All work shall conform to the official rules and regulations of the State of New York Building Construction, Fire, Safety and all other applicable Municipal, State and Federal regulations.
  - Underground Utilities are shown schematically and all utilities may not be shown hereon contractor to verify all utilities have been field marked by the appropriate agency and rely on those representations over locations indicated hereon.
  - Grading of the property shall be performed to provide positive drainage away from the proposed foundation.

- Erosion Control**
- Erosion control measures shall be installed as the first phase of work, and be maintained throughout the duration of the project
  - Maintenance and installation shall be in accordance with NYSDEC "Standards and Specifications for Erosion and Sediment Control".
  - The Town can require additional measures to be implemented at their discretion.
  - The plans indicate locations of erosion control measures however the contractor must use best management practices as necessary to assure proper controls.
  - The final subgrade shall receive no less than 4" of topsoil and be seeded and mulched.

- Town of North Castle Notes**
- All driveway work shall conform with the Town of North Castle code
  - Erosion control measures must be properly installed, maintained so the dirt and debris is not deposited on street.
  - Exposed areas must be stabilized as soon as alterations are completed.
  - Any under ground structures must be inspected prior to backfilling.
  - A minimum of 24 hours notice is required for any inspection
  - No Town Regulated tree removal is proposed.

- Map Reference**
- Survey information shown was taken from a Topographic Survey prepared by Richard D. Jordan Jr. LS dated September 8, 2015
  - See Architectural plans by Daniel Sherman, Landscape Architect for details Architectural Plans supercede in all building dimensions cases



**ZONING TABLE**  
26 BLAIR ROAD  
'R-1A' SINGLE FAMILY

	REQUIRED/ALLOWED	EXISTING	PROPOSED	VARIANCE GRANTED
MIN. LOT AREA	43,560 SF	2.00 ACRES	UNCHANGED	
LOT COVERAGE	8% 6,969 SF	4,003 SF	UNCHANGED	
MIN. LOT FRONTAGE	150'	200'	UNCHANGED	
FRONT YARD	50'	70.53'	UNCHANGED	
SIDE YARD	30'	48.24'	UNCHANGED	
SIDE YARD, TOTAL	60'	104.49'	UNCHANGED	
REAR YARD	50'	>200'	>200'	
MAXIMUM HEIGHT (STORIES)	2.5	2.5	UNCHANGED	
MAXIMUM HEIGHT (FEET)	30'-0"		UNCHANGED	

**LEGEND**

	● SS LOT SEWER SERVICE		⊙ HYDRANT
	● SCO SEWER CLEAN-OUT		⊙ W.V. WATER VALVE
	● STS LOT STORM SERVICE		
	● WS LOT WATER SERVICE		
	● E-X ELECTRIC CROSSING		
	● L LIGHTPOLE		
	● U UTILITY POLE		
	● T TRANSFORMER		
	---	---	---
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	X 8Mp		

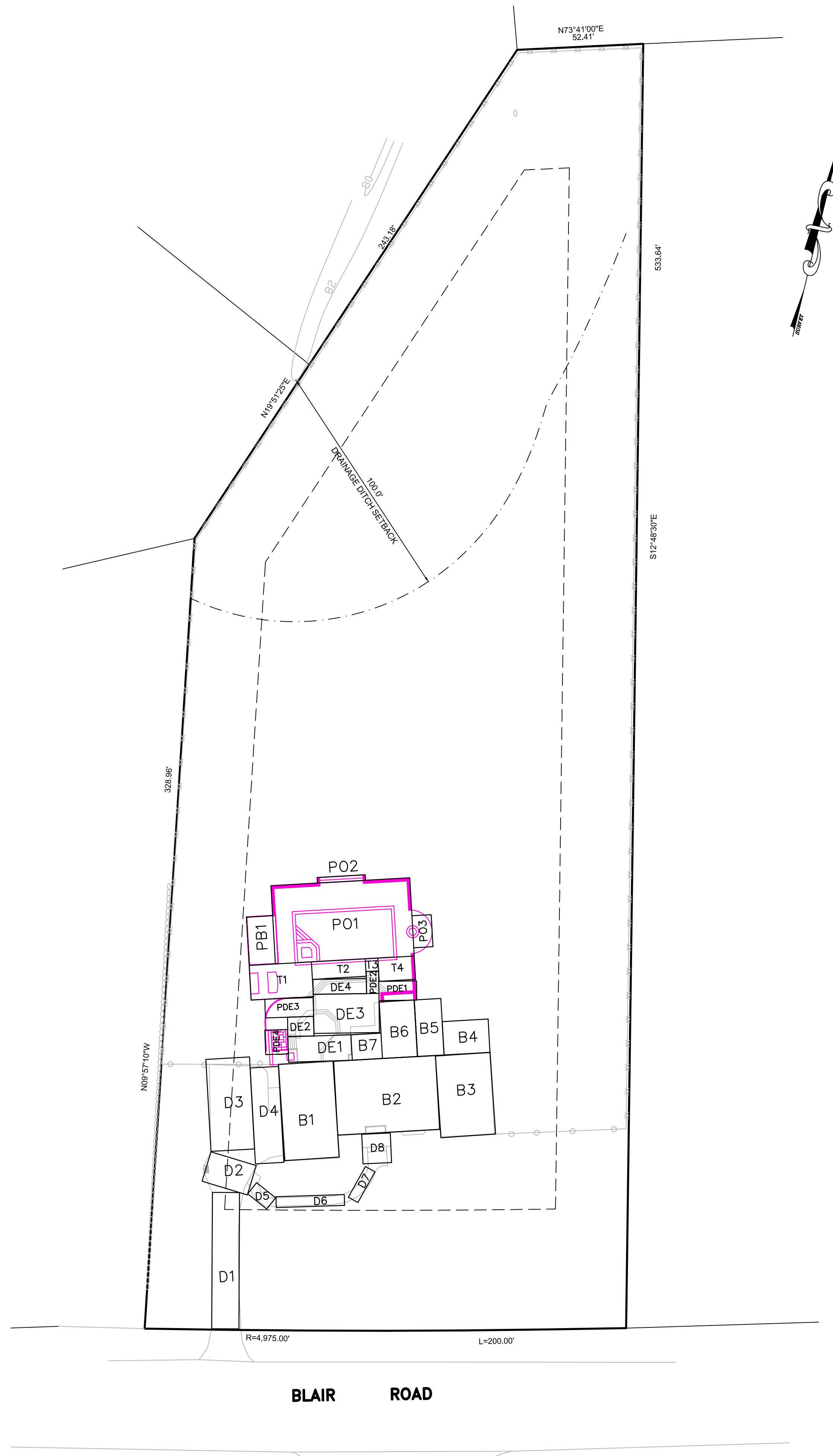
**REVISIONS**

NO.	DATE	DESCRIPTION

**CHRISTOPHER S. UTSCHIG, P.E.**  
Civil Engineering Design  
Stormwater - Construction Management  
Site - Construction Management  
85 Ralph Avenue  
White Plains, NY 10606  
(914) 397-9550

**SITE PLAN**  
BRODBECK RESIDENCE  
26 Blair Road  
Armonk, N.Y. 10504

SCALE: 1"=20'  
DATE: NOV. 15, 2020  
SHEET 1 OF 3  
JOB No. 1204



EX BUILDING AREA (B) SF		
B1	40X23	920
B2	42X31	1,302
B3	34X22	748
B4	19X14	266
B5	24X11	264
B6	24X15	360
B7	13X11	143
TOTAL		4,003

EX DECK AREA (DE) SF		
DE1	26X11	286
DE2	11X8	88
DE3	27X16	492
DE4	22X6	132
TOTAL		998

EX DRIVE AND WALKS AREA (P) SF		
D1	57X11	627
D2	20X13	260
D3	38X18	684
D4	40X12	480
D5	10X6	60
D6	28X5	140
D7	15X5	75
D8	12X12	144
TOTAL		2,470

PROP BUILDING AREA (PB) SF		
PB1	20X11	220
TOTAL		220

PROP POOL AREA (PO) SF		
PO1	58X32.5	1,885
PO2	20X2.5	50
PO3	13X8	104
TOTAL		2,039

PROP DECK (PDE) SF		
PDE1	16X8	128
PDE2	9X5	45
PDE3	20X8	160
PDE4	10X9.5	95
TOTAL		428

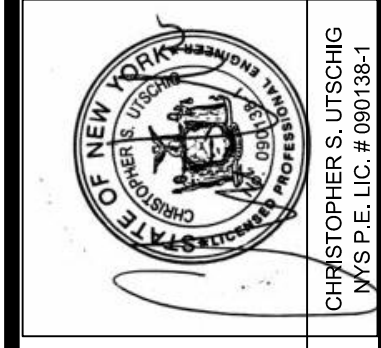
PROP TERRACE AREA (PT) SF		
T1	26X14.5	377
T2	22X7	154
T3	5X5	25
T4	15X10	150
TOTAL		706

TOTAL COVERAGE 10,864 SF

**LEGEND**

CATCH BASIN	LOT SEWER SERVICE	EXISTING TREE, SIZE, TYPE	HYDRANT
DRAINAGE INLET	SEWER CLEAN-OUT	FIRE ALARM SPURCE BOX	W.V. WATER VALVE
SEWER MANHOLE	LOT WATER SERVICE	TRAFFIC SIGN	G.V. GAS VALVE
DRAINAGE MANHOLE	ELECTRIC CROSSING	ROOF LEADER	UTILITY BOX
ELECTRIC MANHOLE	LIGHTPOLE	STREET SIGN	TEST PIT
MANHOLE	UTILITY POLE	EXISTING SPOT ELEVATION	PERCOLATION TEST
MONUMENT SET	TRANSFORMER		
PROPERTY LINE	CURB LINE		
EXISTING CONTOUR - INDEX	CURB CUT		
EXISTING CONTOUR - INTER	APPROXIMATE LOCATION OF WATER MAIN		
PROPOSED CONTOURS	DRAINAGE LINE		
FENCE			
SILT FENCE AND CONSTRUCTION FENCE	LIMIT OF DISTURBANCE		
EXISTING TREE TO BE REMOVED			

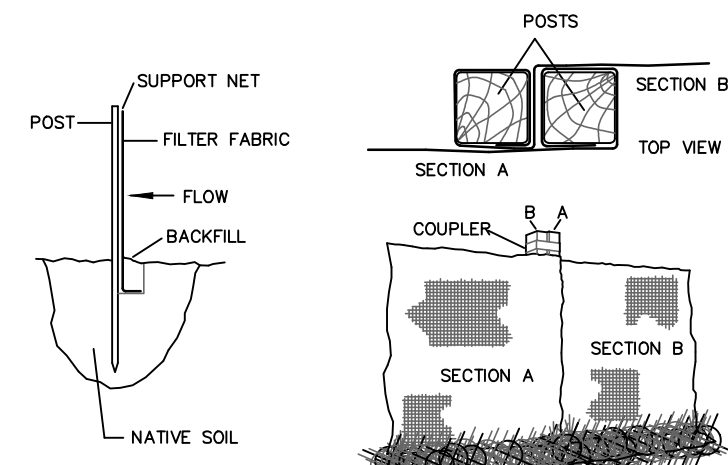
REVISIONS



**COVERAGE CALCULATION**  
 BRODBECK RESIDENCE  
 26 Blair Road  
 Armonk, N.Y. 10504

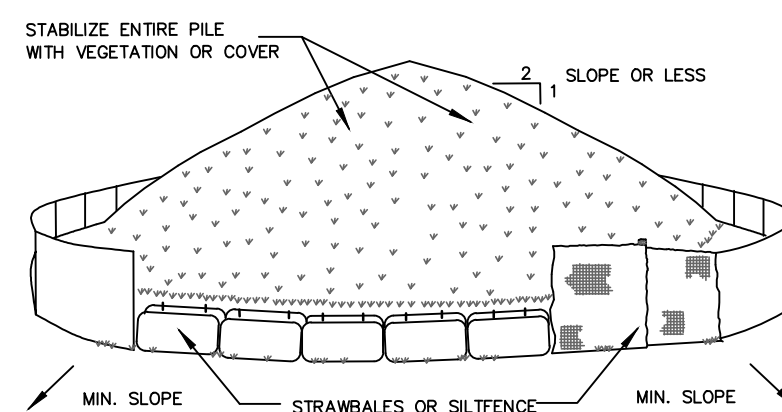
**CHRISTOPHER S. UTSCHIG, P.E.**  
 Civil Engineering Design  
 Stormwater - Construction Management  
 Site -  
 65 Ralph Avenue  
 White Plains, NY 10606  
 (914) 397-9550

SCALE: 1"=30'  
 DATE: NOV. 15, 2020  
 SHEET 2 OF 3  
 JOB No. 1204



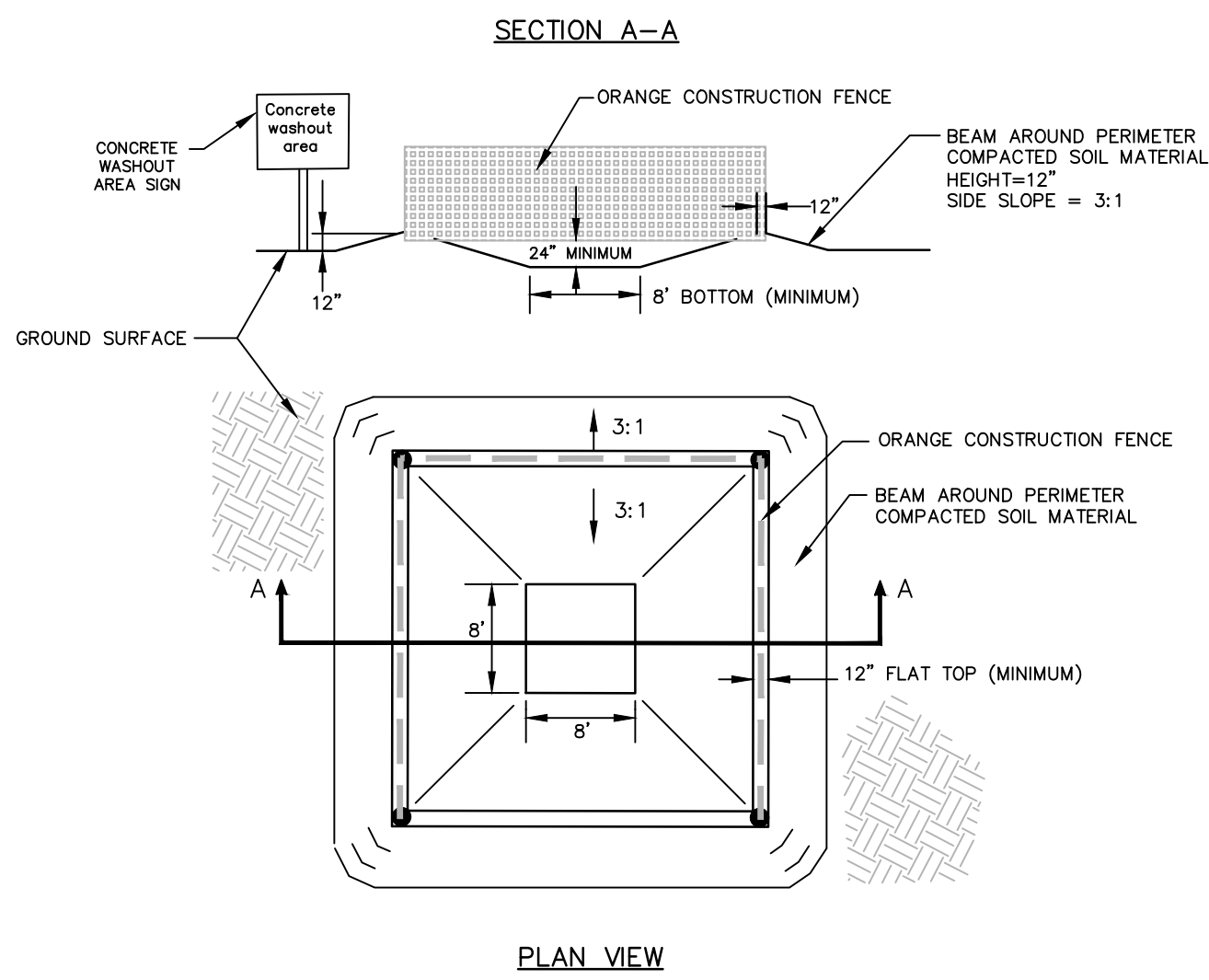
- INSTALLATION NOTES**
1. EXCAVATE A 4 INCH X 4 INCH TRENCH ALONG THE PROPOSED FENCE ALIGNMENT.
  2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).
  3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.
  4. LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL.
  5. JOIN SECTIONS AS SHOWN ABOVE.
  6. CONTRIBUTING AREA SLOPE LENGTH SHALL BE LIMITED TO LENGTHS ON N.Y.S. GUIDELINES.

**SILT FENCE**  
NOT TO SCALE



- INSTALLATION NOTES**
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
  2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
  3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED AS NOTED.
  4. TEMPORARILY STABILIZE AS NOTED IN SPECIFICATIONS.

**SOIL STOCKPILING**  
NOT TO SCALE



**CONCRETE WASHOUT DETAIL**  
N.T.S.

**NDS**  
We put water in its place

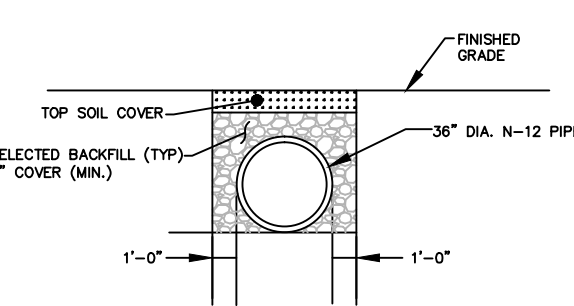
NDS, INC.  
851 NORTH HARVARD AVE.  
LINDSAY, CA 93247  
TOLL FREE: 1-800-726-1994  
PHONE: (559) 562-9888  
FAX: (559) 562-4488  
www.ndspro.com

**NOTES:**

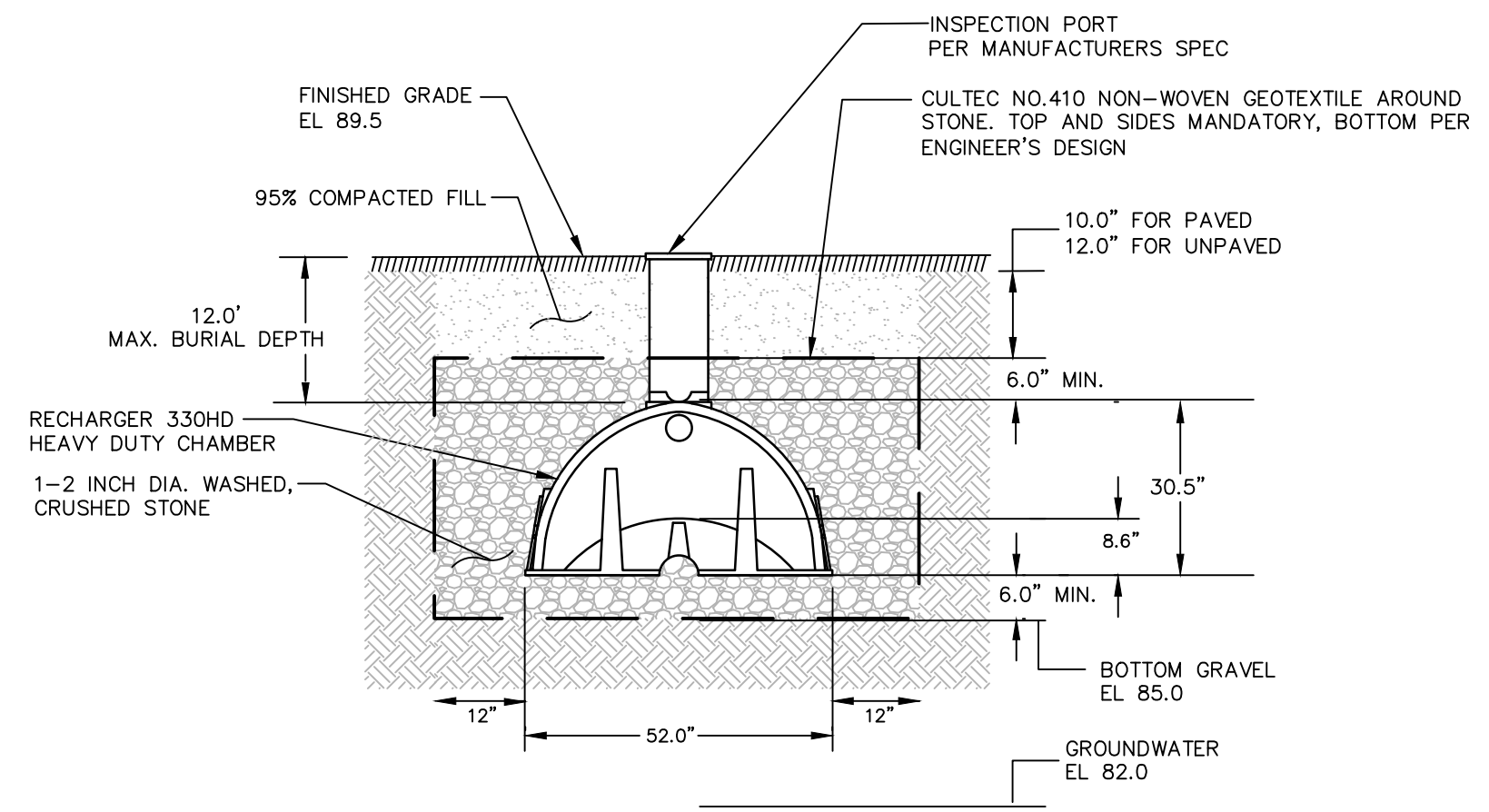
1. NDS ADAPTERS THAT FIT THIS BASIN ARE AS FOLLOWS: # 1242, # 1243, # 1245, # 1266 & #1889 USE # 1206 IF PLUGGING AN OUTLET.
2. PERFORATIONS ON NON OPEN SIDES AND BTM. TO BE CUT OUT WHEN ADDING EXTRA OUTLETS.
3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. DO NOT SCALE DRAWING.
5. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
6. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

**SQUARE CATCH BASIN**  
12" SQUARE CATCH BASIN PLUMBING CONNECTIONS

REVISION DATE 8-24-2015

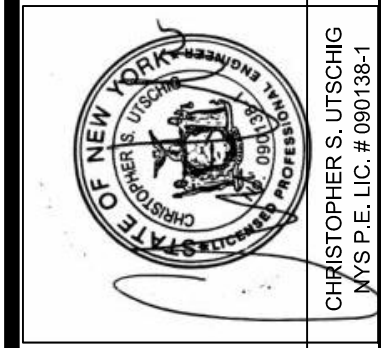


**TYPICAL PIPE TRENCH**  
N.T.S.



**CULTEC RECHARGER 330HD**  
N.T.S.

NO.	DESCRIPTION	DATE



**CONSTRUCTION DETAILS**  
 BRODBECK RESIDENCE  
 26 Blair Road  
 Armonk, N.Y. 10504

**CHRISTOPHER S. UTSCHIG, P.E.**  
 Civil Engineering Design  
 Site - Stormwater - Construction Management  
 85 Ralph Avenue  
 White Plains, NY 10606

*Engineer's Report*  
*for*  
*The Brodbeck Residence*

26 Blair Road  
Armonk, New York

Dated 11/2/20

Revised \_\_\_\_\_

Prepared by:  
Christopher S. Utschig P.E.  
65 Ralph Ave White Plains, NY  
914 391-9550

NYS Professional Engineer Lic # 090138

## Introduction

This report has been prepared in support of the improvements to the property at 26 Blair Road. The proposed improvements will include a pool, new patio, and reconfigured patio. The report and associated plans were prepared in accordance with the Westchester County, NY, Stormwater Management Best Management Practices for Stormwater Runoff Control in compliance with the requirements of the Town of North Castle pursuant to a Surface Water Control Permit. The existing conditions identified on the site plan were taken from a survey prepared by Richard D. Jorden LS. The geometry for the proposed improvements are from plans prepared by Dan Sherman LA.

### A. Existing Conditions

The existing property is a 2.0 Ac residentially zoned property within the R2-A zone. The property is occupied by a 2 1/2 story single family home; additional improvements include a driveway, patio, , deck, and walks. The balance of the property is landscaped lawn area and wooded areas. The existing condition includes 7,380 sf of impervious area. The subject properties topography can be described as gently sloping. There appears to be an existing drainage system that will remain untouched. Based on Westchester County Soil Mapping the onsite soils in the area of infiltration and proposed development are (Pah) Paxton Loam type soils, having a type "C" hydrologic group.

### C. Proposed Condition

The proposed condition includes a rear yard in ground pool, reconstructed and expanded patio and walkways. The grading as proposed leaves the existing yard grading essentially untouched and thereby leaving the existing drainage patterns unchanged. The proposed condition will result in an impervious area of 10,798 sf. the balance of the property will remain unchanged, this represents an increase in impervious area of 3,374 sf. The comparative analysis was performed in Hydrocad for the entire property for both the Existing and Proposed condition for the 25 year storm. The analysis resulted in volumes of runoff for the existing and proposed condition to be 25,213 cf and 25,940 cf respectively, a net increase of 727 cf

The on-site drainage has been designed to provide mitigation for all proposed increase in impervious area when analyzing for the 25 Year storm event. The design was analyzed using the Westchester County Best Management Practices Manual for Type III storms, modeled with Hydro Cad, for the 25-yr(6.4") storm event. The design proposes an underground detention system consisting of 7 cultec 330 HD's. The system has been sized such that the additional volume of runoff from the design storm is fully mitigated through storage and infiltration.

### D. Construction Phasing Plan and Sediment and Erosion Control Management

#### Maintenance of Temporary and Permanent Structures and Practices

Temporary and permanent erosion controls measures will be maintained and inspected in accordance with the **Grading and Drainage Plan**. All proposed soil erosion and sediment control practices are designed in accordance with the following publications:

- New York State Standards and Specifications for Erosion and Sediment Control, August 2005, latest edition.
- New York State Guidelines for Urban Erosion and Sediment Control, latest edition,
- New York State General Permit for Stormwater Discharges,

- "Reducing the Impacts of Stormwater Runoff from New Development", as published by the New York State Department of Environmental Conservation (NYSDEC), second edition, April 1993.

The proposed soil erosion and sediment control devices include: protective earthmoving procedures and grading practices, soil stabilization, inlet protection, stabilized construction entrance and silt fencing. The approach of the plan is to control off-site sedimentation, and re-establish vegetation as soon as practicable.

Construction shall be implemented in the following order:

1. Erosion and sediment control (ESC) measures and Pollution Prevention (PP) implementation,
  - a) Install silt fences along easterly project limits,
  - b) Maintain existing macadam driveway to utilize as a site construction entrance to the project area, material storage area and dumpster location.
    - i) Contractor shall install stone stabilized entrance at end of the existing paved driveway in advance of construction vehicles requiring access from graded /exposed soils to City Streets.
  - c) Install Tree Protection
  - d) Install temporary sanitary facilities (portable toilets) in a location that is at least 20 from any drainage facility or flow path. Recommend staking the facility to prevent accidental tipping by construction activity or wind.
  - e) Install waste container – maintain rigorous site cleaning schedule to prevent debris from blowing off site. Construction waste shall be stored in a dumpster and carried off-site on a regular basis
  - f) Allocate concrete washout areas
2. Clearing and grubbing.
  - a) Strip top soil and stockpile. Initiate cover practices and sediment controls at the base of the stockpile. Stockpile can be temporarily stabilized with tarp or mulch and/or temporary seeding.
  - b) Disturbed areas where construction will cease for more than 14 days will be stabilized with erosion controls, such hydro-seeding, hydro-mulch, or hay
3. Excavate for pool.
  - a) Install dewatering practice if necessary.
4. Construct hardscape
5. Install subsurface storage and infiltration system and site drainage to capture runoff.
6. Final stabilization of disturbed areas
  - a) Install minimum 4" topsoil and final stabilize with lawn or mulch in landscape areas.
  - b) Remove all ESC and PP measures upon approval of design engineer and/or ESC inspector.

Awarded contractor shall be responsible for the proper implementation of the ESC and PP practices. The following maintenance program is proposed in order to maintain the proper function of all drainage and erosion and sediment control facilities:

- Inspect sediment control devices and construction access point routinely and if necessary remove accumulated sedimentation and debris; at no point should the filter bed be allowed to continue operations beyond 50% of its capacity being compromised by debris.
- All disturbed area will be stabilized and the sediment build-up in the filter removed. After the construction is completed, any areas disturbed shall be stabilized immediately after the required work is completed.
- Restore and re-seed any eroded areas as soon as possible
- The Stormwater Management Facilities Maintenance Program will be managed by the home owner and shall include removal of sediment from the on-site catch basins and underground storage facilities.

The contractor shall provide a Trained Individual to be present on site at all times during soil disturbing activities

Any disturbed areas shall be re-vegetated as soon as possible. Topsoil shall be temporarily stockpiled for future use in grading and landscaping. Stockpile locations have been provided on the Erosion and Sediment Control Plan and shall be contained within a silt fence/hay bale barrier.

The existing driveway shall be maintained throughout construction to be utilized for the site construction entrance. A temporary stabilized construction entrance comprised of a stone anti-track pad shall be installed as necessary to minimize dirt tracking. The purpose of a stabilized entrance is to remove as much soil from the construction vehicle tires prior to exiting the site and traveling on the existing roadways.

For dewatering activities during excavation of the footings, a dewatering pump shall be located in a perforated tub surrounded by filter fabric and stone (or approved alternative). Clean discharge should be directed to onsite drainage appurtenances to minimize erosion of soils. Discharge with suspended sediment shall be connected to a sediment bag on undisturbed ground in a location where the discharge will not cause erosion or flow over exposed soils.

If the contractor encounters ground water during the excavation of the filtering system, he shall notify the design engineer immediately. The contractor shall store all excavated material at the designated location show on the Grading and Erosion Control Plan with the appropriate erosion control measures corresponding to the stockpile detail.

Contractor shall be responsible for maintaining the cleanliness of the streets (driveways/parking and adjacent areas) and storm drain inlet protection (as applicable) Best Management Practices (BMPs) throughout the construction project.

Permanent seeding shall be installed immediately after the final design grades are achieved but no later than fourteen (14) days after construction activities have ceased. After stabilization, accumulated sediment shall be removed from site for disposal along with construction debris, trash and temporary BMPs

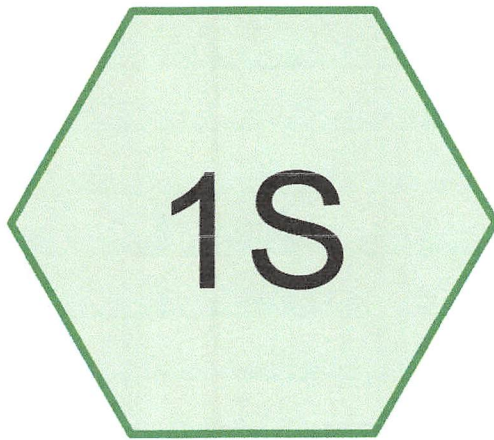
**E. Conclusion:**

The implementation of this stormwater management plan will mitigate the post development stormwater flows and not adversely affect the adjacent properties or the existing drainage system. The additional stormwater runoff generated by the proposed addition has been attenuated by the construction of an underground storage system.

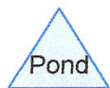


**APPENDIX A**

***Existing Condition Calculations***



Existing



**Existing**

Prepared by Microsoft

HydroCAD® 10.00-20 s/n 09858 © 2017 HydroCAD Software Solutions LLC

Printed 11/3/2020

Page 2

**Area Listing (all nodes)**

Area (sq-ft)	CN	Description (subcatchment-numbers)
79,740	74	>75% Grass cover, Good, HSG C (1S)
7,380	98	Water Surface, HSG B (1S)
<b>87,120</b>	<b>76</b>	<b>TOTAL AREA</b>

**Existing**

Prepared by Microsoft

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Printed 11/3/2020

Page 3

**Soil Listing (all nodes)**

Area (sq-ft)	Soil Group	Subcatchment Numbers
0	HSG A	
7,380	HSG B	1S
79,740	HSG C	1S
0	HSG D	
0	Other	
<b>87,120</b>		<b>TOTAL AREA</b>

**Existing**

Prepared by Microsoft

HydroCAD® 10.00-20 s/n 09858 © 2017 HydroCAD Software Solutions LLC

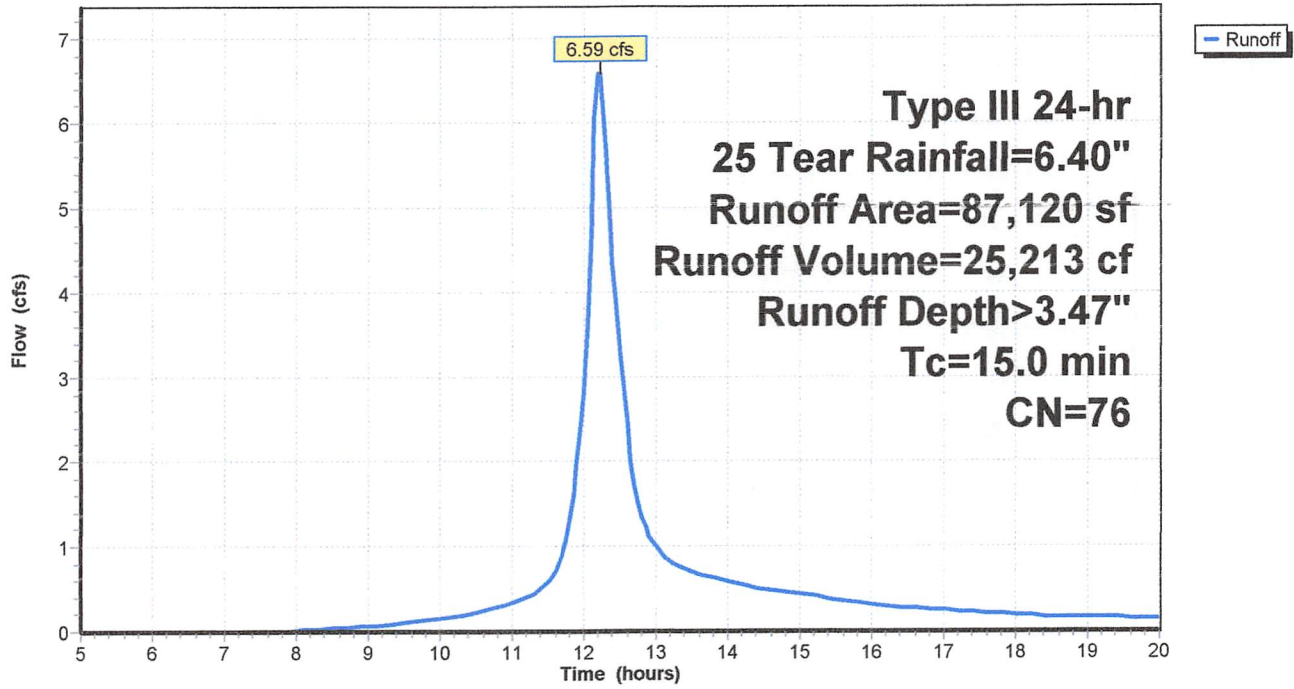
Type III 24-hr 25 Tear Rainfall=6.40"

Printed 11/3/2020

Page 4

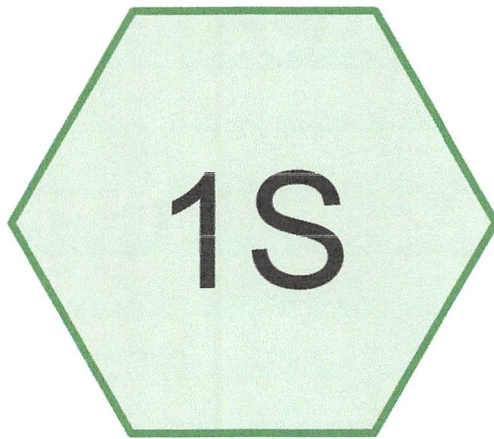
**Subcatchment 1S: Existing**

Hydrograph



**APPENDIX B**

*Proposed Condition Calculations*



Proposed



**Proposed**

Prepared by Microsoft

HydroCAD® 10.00-20 s/n 09858 © 2017 HydroCAD Software Solutions LLC

Printed 11/3/2020

Page 2

**Area Listing (all nodes)**

Area (sq-ft)	CN	Description (subcatchment-numbers)
<b>76,322</b>	<b>74</b>	<b>&gt;75% Grass cover, Good, HSG C (1S)</b>
<b>10,798</b>	<b>98</b>	<b>Paved parking, HSG B (1S)</b>
<b>87,120</b>	<b>77</b>	<b>TOTAL AREA</b>



**Proposed**

Prepared by Microsoft

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Printed 11/3/2020

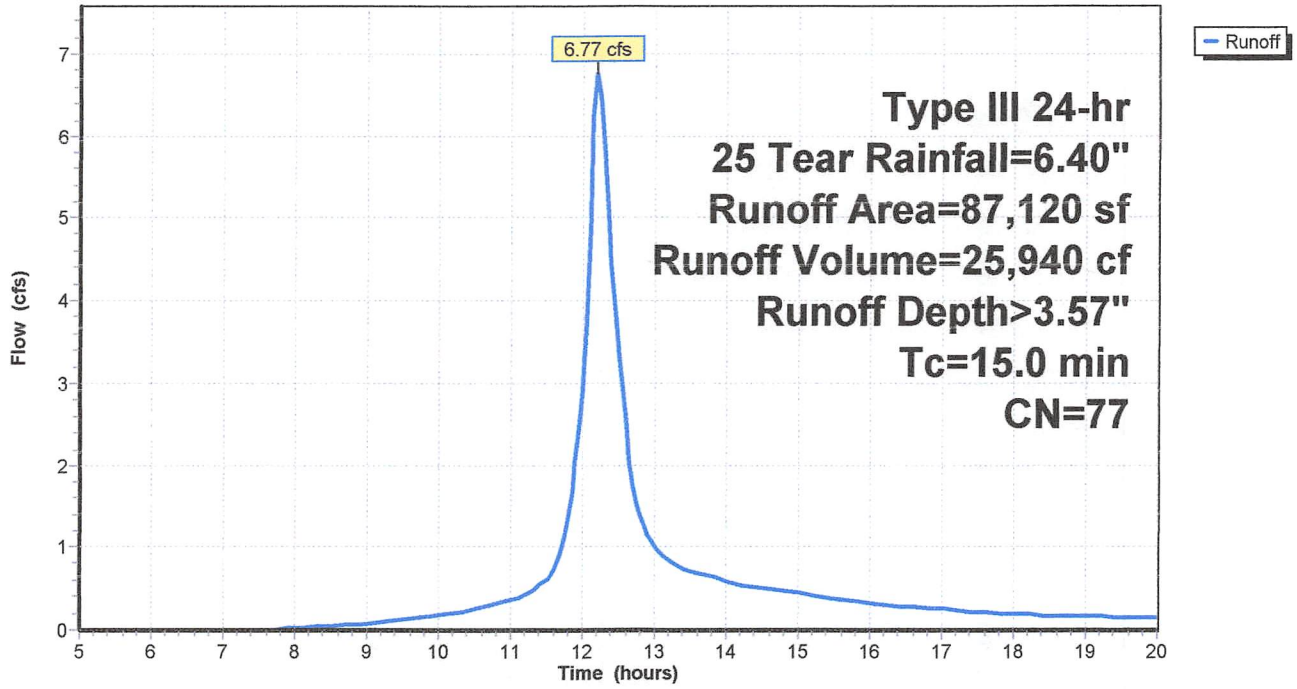
Page 3

**Soil Listing (all nodes)**

Area (sq-ft)	Soil Group	Subcatchment Numbers
0	HSG A	
10,798	HSG B	1S
76,322	HSG C	1S
0	HSG D	
0	Other	
<b>87,120</b>		<b>TOTAL AREA</b>

### Subcatchment 1S: Proposed

Hydrograph



**APPENDIX C**  
***Infiltration Calculations***



# CULTEC Recharger® 330XLHD Stormwater Chamber

The Recharger® 330XLHD is a 30.5" (775 mm) tall, high capacity chamber. Typically when using this model, fewer chambers are required resulting in less labor and a smaller installation area. The Recharger® 330XLHD has the side portal internal manifold feature. HVLV® FC-24 Feed Connectors are inserted into the side portals to create the internal manifold.



Size (L x W x H)	8.5' x 52" x 30.5" 2.59 m x 1321 mm x 775 mm
Installed Length	7' 2.13 m
Length Adjustment per Run	1.50' 0.46 m
Chamber Storage	7.46 ft <sup>3</sup> /ft 0.69 m <sup>3</sup> /m 52.21 ft <sup>3</sup> /unit 1.48 m <sup>3</sup> /unit
Min. Installed Storage	11.32 ft <sup>3</sup> /ft 1.05 m <sup>3</sup> /m 79.26 ft <sup>3</sup> /unit 2.24 m <sup>3</sup> /unit
Min. Area Required	33.83 ft <sup>2</sup> 3.14 m <sup>2</sup>
Chamber Weight	73.0 lbs 33.11 kg
Shipping	30 chambers/skid 2,335 lbs/skid 10 skids/48' flatbed
Min. Center-to-Center Spacing	4.83' 1.47 m
Max. Allowable Cover	12' 3.66 m
Max. Inlet Opening in End Wall	24" HDPE, PVC 600 mm HDPE, PVC
Max. Allowable O.D. in Side Portal	10" HDPE, 12" PVC 250 mm HDPE, 300 mm PVC
Compatible Feed Connector	HVLV FC-24 Feed Connector

Calculations are based on installed chamber length.  
All above values are nominal.  
Min. installed storage includes 6" (152 mm) stone base, 6" (152 mm) stone above crown of chamber and typical stone surround at 58" (1473 mm) center-to-center spacing.

	Stone Foundation Depth		
	6" 152 mm	12" 305 mm	18" 457 mm
Chamber and Stone Storage Per Chamber	79.26 ft <sup>3</sup> 2.24 m <sup>3</sup>	86.03 ft <sup>3</sup> 2.44 m <sup>3</sup>	92.79 ft <sup>3</sup> 2.63 m <sup>3</sup>
Min. Effective Depth	3.54' 1.08 m	4.04' 1.23 m	4.54' 1.38 m
Stone Required Per Chamber	2.50 yd <sup>3</sup> 1.91 m <sup>3</sup>	3.13 yd <sup>3</sup> 2.39 m <sup>3</sup>	3.76 yd <sup>3</sup> 2.87 m <sup>3</sup>

Calculations are based on installed chamber length.  
Includes 6" (305 mm) stone above crown of chamber and typical stone surround at 58" (1473 mm) center-to-center spacing and stone foundation as listed in table.  
Stone void calculated at 40%.

## Recharger® 330XLHD Bare Chamber Storage Volumes

Elevation		Incremental Storage Volume				Cumulative Storage	
in.	mm	ft <sup>3</sup> /ft	m <sup>3</sup> /m	ft <sup>3</sup>	m <sup>3</sup>	ft <sup>3</sup>	m <sup>3</sup>
30.5	775	0.000	0.000	0.000	0.000	52.213	1.479
30	762	0.019	0.002	0.133	0.004	52.213	1.479
29	737	0.051	0.005	0.357	0.010	52.080	1.475
28	711	0.084	0.008	0.588	0.017	51.723	1.465
27	686	0.124	0.012	0.868	0.025	51.135	1.448
26	660	0.150	0.014	1.05	0.030	50.267	1.424
25	635	0.173	0.016	1.211	0.034	49.217	1.394
24	609	0.191	0.018	1.337	0.038	48.006	1.360
23	584	0.207	0.019	1.449	0.041	46.669	1.322
22	559	0.221	0.021	1.547	0.044	45.220	1.281
21	533	0.233	0.022	1.631	0.046	43.673	1.237
20	508	0.244	0.023	1.708	0.048	42.042	1.191
19	483	0.254	0.024	1.778	0.050	40.334	1.142
18	457	0.264	0.025	1.848	0.052	38.556	1.092
17	432	0.271	0.025	1.897	0.054	36.708	1.040
16	406	0.283	0.026	1.981	0.056	34.811	0.986
15	381	0.294	0.027	2.058	0.058	32.830	0.930
14	356	0.296	0.027	2.072	0.059	30.772	0.871
13	330	0.299	0.028	2.093	0.059	28.700	0.813
12	305	0.301	0.028	2.107	0.060	26.607	0.754
11	279	0.303	0.028	2.121	0.060	24.500	0.694
10	254	0.304	0.028	2.128	0.060	22.379	0.634
9	229	0.306	0.028	2.142	0.061	20.251	0.574
8	203	0.313	0.029	2.191	0.062	18.109	0.513
7	178	0.321	0.030	2.247	0.064	15.918	0.451
6	152	0.322	0.030	2.254	0.064	13.671	0.387
5	127	0.323	0.030	2.261	0.064	11.417	0.323
4	102	0.324	0.030	2.268	0.064	9.156	0.259
3	76	0.325	0.030	2.275	0.064	6.888	0.195
2	51	0.327	0.030	2.289	0.065	4.613	0.131
1	25	0.332	0.031	2.324	0.066	2.324	0.066
<b>Total</b>		<b>7.459</b>	<b>0.693</b>	<b>52.213</b>	<b>1.479</b>	<b>52.213</b>	<b>1.479</b>

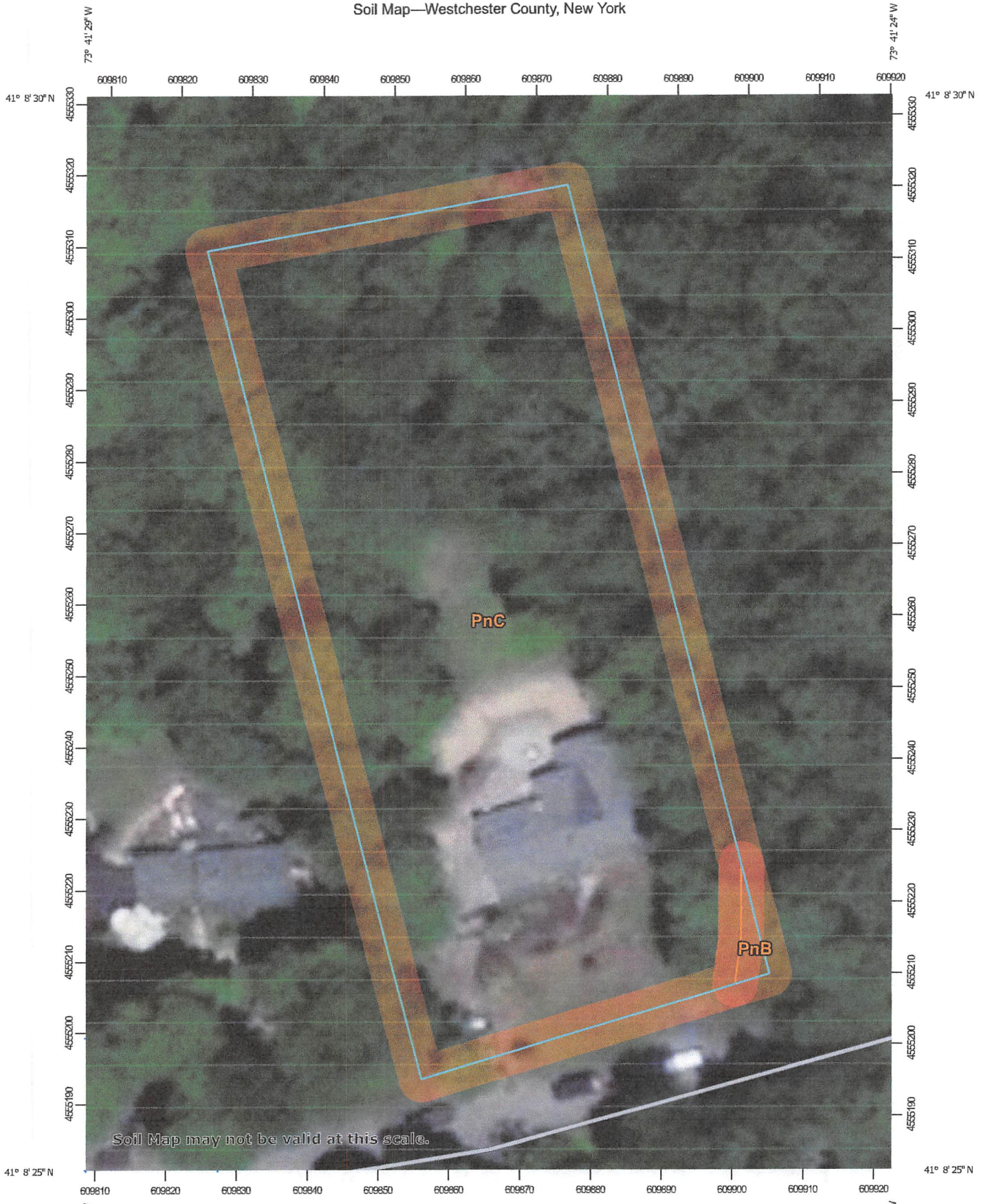
Calculations are based on installed chamber length.

Visit <http://cultec.com/downloads/> for Product Downloads and CAD details.

For more information, contact CULTEC at (203) 775-4416 or visit [www.cultec.com](http://www.cultec.com).

**APPENDIX D**  
*USDA Soils Report*

Soil Map—Westchester County, New York



Soil Map may not be valid at this scale.

Map Scale: 1:733 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

## MAP LEGEND

-  Area of Interest (AOI)
-  Area of Interest (AOI)
- Soils**
-  Soil Map Unit Polygons
-  Soil Map Unit Lines
-  Soil Map Unit Points
- Special Point Features**
-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features
- Water Features**
-  Streams and Canals
- Transportation**
-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads
- Background**
-  Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Westchester County, New York  
 Survey Area Data: Version 16, Jun 11, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Oct 16, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PnB	Paxton fine sandy loam, 3 to 8 percent slopes	0.0	0.6%
PnC	Paxton fine sandy loam, 8 to 15 percent slopes	1.5	99.4%
<b>Totals for Area of Interest</b>		<b>1.5</b>	<b>100.0%</b>



Map Unit Symbol	Map Unit Name	Component Name	Hydrologic Soil Group
LcA	Leicester loam, 0 to 3 percent slopes, stony	Leicester	A/D
LcB	Leicester loam, 3 to 8 percent slopes, stony	Leicester	A/D
LcB	Leicester loam, 3 to 8 percent slopes, stony	Leicester	A/D
LeB	Leicester loam, 2 to 8 percent slopes, very stony	Leicester	A/D
LeB	Leicester loam, 2 to 8 percent slopes, very stony	Leicester	A/D
Pa	Palms muck	Palms	A/D
Pc	Palms and Carlisle soils, ponded	Palms	A/D
Pc	Palms and Carlisle soils, ponded	Carlisle	A/D
PnB	Paxton fine sandy loam, 2 to 8 percent slopes	Paxton	C
PnC	Paxton fine sandy loam, 8 to 15 percent slopes	Paxton	C
PnD	Paxton fine sandy loam, 15 to 25 percent slopes	Paxton	C
PoB	Paxton fine sandy loam, 2 to 8 percent slopes, very stony	Paxton	C
PoC	Paxton fine sandy loam, 8 to 15 percent slopes, very stony	Paxton	C
PoD	Paxton fine sandy loam, 15 to 25 percent slopes, very stony	Paxton	C
Pt	Pits, gravel	Pits, gravel	
Pv	Pits, quarry	Pits, quarry	
Pw	Pompton silt loam, loamy substratum	Pompton	B/D
Ra	Raynham silt loam	Raynham	C/D
RdA	Ridgebury loam, 0 to 3 percent slopes	Ridgebury	B/D
RdA	Ridgebury loam, 0 to 3 percent slopes	Ridgebury	B/D
RdB	Ridgebury loam, 3 to 8 percent slopes	Ridgebury	B/D
RdB	Ridgebury loam, 3 to 8 percent slopes	Ridgebury	B/D
RdB	Ridgebury loam, 3 to 8 percent slopes	Ridgebury	B/D
RgB	Ridgebury loam, 2 to 8 percent slopes, very stony	Ridgebury	B/D
RgB	Ridgebury loam, 2 to 8 percent slopes, very stony	Ridgebury	B/D
RhA	Riverhead loam, 0 to 3 percent slopes	Riverhead	A
RhA	Riverhead loam, 0 to 3 percent slopes	Riverhead	A
RhB	Riverhead loam, 3 to 8 percent slopes	Riverhead	A
RhC	Riverhead loam, 8 to 15 percent slopes	Riverhead	A
RhD	Riverhead loam, 15 to 25 percent slopes	Riverhead	A
RhE	Riverhead loam, 25 to 50 percent slopes	Riverhead	A
SbB	Stockbridge silt loam, 2 to 8 percent slopes	Stockbridge	C
Sh	Sun loam	Sun	C/D
Sm	Sun loam, extremely stony	Sun	C/D
SuA	Sutton loam, 0 to 3 percent slopes	Sutton	B
SuB	Sutton loam, 3 to 8 percent slopes	Sutton	B
Ub	Udorthents, smoothed	Udorthents	B
Uc	Udorthents, wet substratum	Udorthents	A/D
UdB	Unadilla silt loam, 2 to 6 percent slopes	Unadilla	B
Uf	Urban land	Urban land	
Uf	Urban land	Urban land	
UHB	Urban land-Charlton complex, 2 to 8 percent slopes	Urban land	
UHB	Urban land-Charlton complex, 2 to 8 percent slopes	Charlton	B