BIBBO ASSOCIATES, L.L.P.
Consulting Engineers

Timothy S. Allen, P.E.
Nicholas Gaboury, P.E.
Matthew J. Gironda, P.E.

December 21, 2021

Town of North Castle
Residential Project Review Committee
17 Bedford Road
Armonk, NY 10504-1898

ATTN: Mr. Adam Kaufman, Chairman

RE: Site Plan
Abramo Residence
163 Hickory Kingdom Road

Dear Members of the Committee:

Please find attached the following materials in support of the Building Permit Application for the above referenced project:

- 1 copy – R.P.R.C. Checklist
- 1 copy – R.P.R.C. Application (w/ scan of check)
- 1 copy – Site Plan (4 Sheets)
- 1 copy – Floor Plans, prepared by William Bateman, RA
- 1 copy – Drainage Calculations
- 1 copy – Aerial Map
- 1 copy – Gross Land Coverage Worksheet (w/ graphical plan)
- 1 copy – Gross Floor Area Worksheet (w/ graphical plan)

Our client is proposing to construct a new five bedroom residence with an in-ground pool and pool house located at the above-referenced address. The proposed house will be served by a new onsite septic system and new drilled well. Please note, access to the site will be provided by the existing paved common driveway which connects to Hickory Kingdom Road.

We respectfully request this matter be placed on your next available meeting agenda for your review. Please feel free to contact us with any questions or comments you may have.

Very truly yours,

Nicholas Gaboury, P.E.

cc: M. Abramo, owner

TOWN OF NORTH CASTLE

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

RESIDENTIAL PROJECT
REVIEW COMMITTEE
Adam R. Kaufman AICP, Chair

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

RESIDENTIAL PROJECT REVIEW COMMITTEE (RPRC) APPLICATION

Section I- PROJECT

ADDRESS: 163 Hickory Kingdom Road

Section III- DESCRIPTION OF WORK:

Construction of new single family residence (5 bedrooms), in-ground pool, and a pool house with associated drainage systems, septic system, and drilled well.

Section III- CONTACT INFORMATION:

APPLICANT: Matt Abramo

ADDRESS: 530W 30th ST. Apt 23A, New York, NY 10001

PHONE: _____ MOBILE: 645-417-0435 EMAIL: jkabramo@gmail.com

PROPERTY OWNER: SAME AS ABOVE

ADDRESS: _____

PHONE: _____ MOBILE: 645-417-0435 EMAIL: jkabramo@gmail.com

PROFESSIONAL:: Bibbo Associates, LLP

ADDRESS: 293 Route 100, Suite 203 Somers, NY 10589

PHONE: (914) 277-5805 MOBILE: _____

EMAIL: ngaboury@bibboassociates.com

Section IV- PROPERTY INFORMATION:

Zone: R-4A Tax ID (lot designation) 95.04-2-3

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: Abramo

■ Initial Submittal ☐ Revised Preliminary

Street Location: 163 Hickory Kingdom Road

Zoning District: R-4A Property Acreage: 6.01 ± Tax Map Parcel ID: 95.04-2-3

Date: 12-21-2021

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

- ☐ 9. Description of method of water supply and sewage disposal and location of such facilities
- ☐ 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
- ☐ 11. Submission of a Zoning Conformance Table depicting the plan's compliance with the minimum requirements of the Zoning District
- ☐ 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.
- ☐ 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.

MATTHEW ABRAMO
MERCEDES ABRAMO
37 RUNNYMEDE RD.
CHATHAM, NJ 07928-1331

1-2
210 292

2652

DATE 8/4/21

PAY TO THE ORDER OF TOWN OF NEW CASTLE $ 1875.—

ONE THOUSAND · EIGHT HUNDRED · SEVENTY · FIVE & 00/100 DOLLARS

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MEMO 163HK (RPRC)

MP

⑆021000021⑆ 292012812865⑈ 2652

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

GROSS LAND COVERAGE CALCULATIONS WORKSHEET

Application Name or Identifying Title: Matt Abramo Date: 12/21/21

Tax Map Designation or Proposed Lot No.: 95.04-2-3

Gross Lot Coverage

1.	Total lot Area (Net Lot Area for Lots Created After 12/13/06):	6.01 Ac
2.	**Maximum** permitted gross land coverage (per Section 355-26.C(1)(b)):	26,338
3.	**BONUS** maximum gross land cover (per Section 355-26.C(1)(b)):	
	Distance principal home is beyond minimum front yard setback 507 x 10 = 5070	5070
4.	**TOTAL Maximum Permitted gross land coverage** = Sum of lines 2 and 3	31,408
5.	Amount of lot area covered by **principal building:** 0 existing + 4282 proposed =	4282
6.	Amount of lot area covered by **accessory buildings:** 0 existing + 441 proposed =	441
7.	Amount of lot area covered by **decks:** 0 existing + 0 proposed =	0
8.	Amount of lot area covered by **porches:** 0 existing + 0 proposed =	0
9.	Amount of lot area covered by **driveway, parking areas and walkways:** 0 existing + 7252 proposed =	7252
10.	Amount of lot area covered by **terraces:** 0 existing + 559 proposed =	559
11.	Amount of lot area covered by **tennis court, pool and mechanical equip:** 0 existing + 900 proposed =	900
12.	Amount of lot area covered by **all other structures:** 0 existing + 0 proposed =	0
13. Proposed	**gross land coverage:** Total of Lines 5 – 12 =	13,434

If Line 13 is less than or eq ual 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

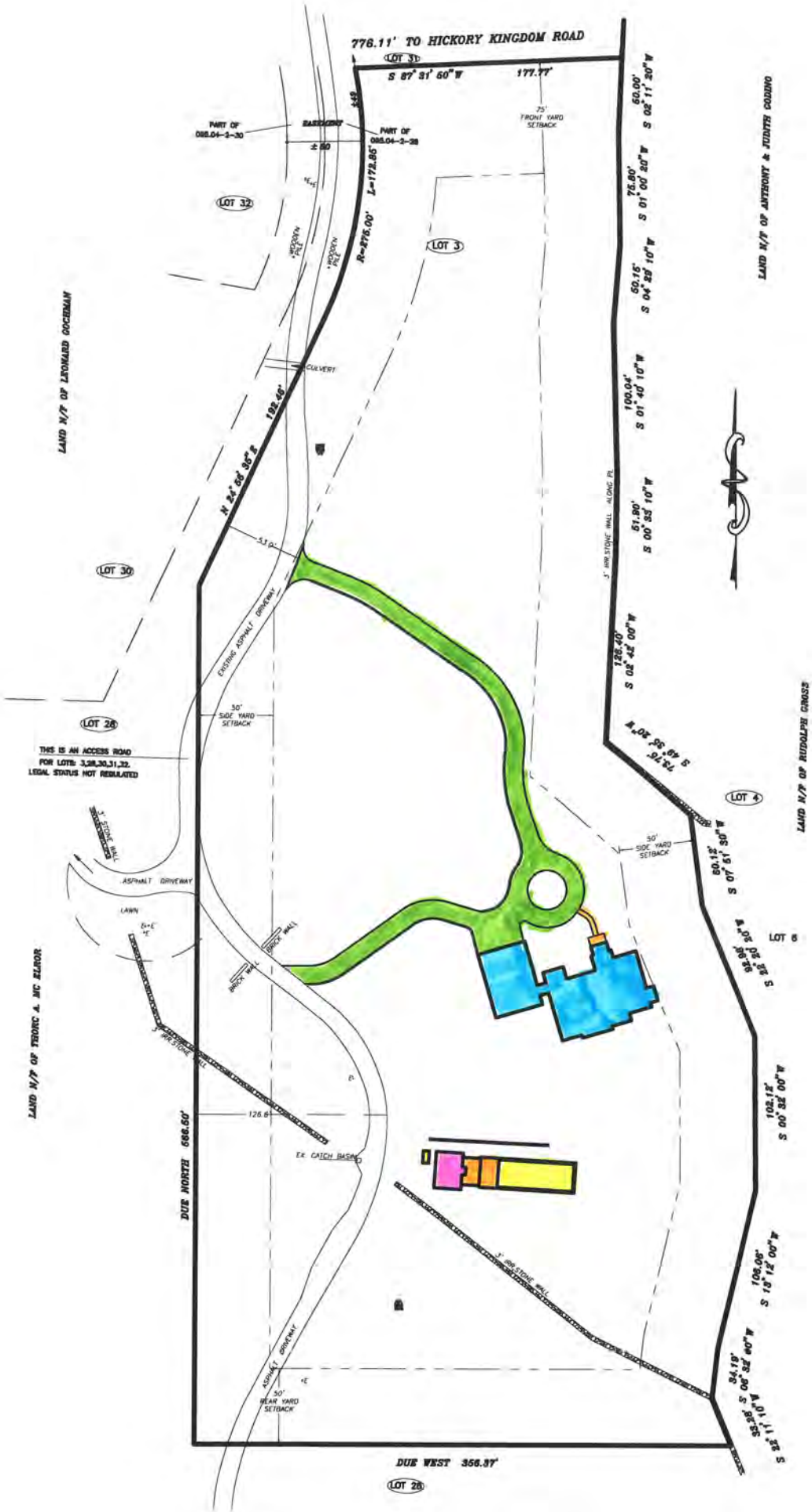
NICHOLAS GABOURY — STATE OF NEW YORK — 093349 — LICENSED PROFESSIONAL ENGINEER

12/21/21
Date

Project Abramo Residence - 163 Hickory Kingdom Road

Gross Land Coverage Breakdown

Legend		Existing (SF)	Proposed (SF)	Area (SF)
	Principal Building	0	4282	4,282
	Driveway	0	7252	7,252
	Pool and Pool Equipment Pad	0	900	900
	Terraces and Patios	0	559	559
	Pool House	0	441	441
	Total	0	13,434	13,434



INSET MAP

1" = 100'

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

FLOOR AREA CALCULATIONS WORKSHEET

Application Name or Identifying Title: Abramo Residence Date: 12/16/21

Tax Map Designation or Proposed Lot No.: Map 95.04 / Block 2 / Lot 3 - 163 Hickory Kingdom Road

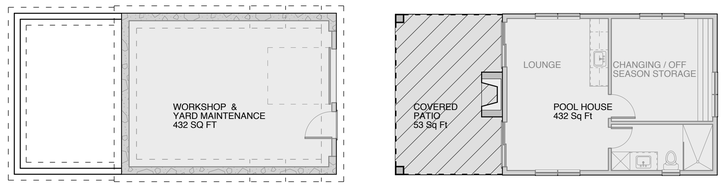
Floor Area

1.	Total Lot Area (Net Lot Area for Lots Created After 12/13/06):	6.015 AC / 262031.4 SF
2.	**Maximum** permitted floor area (per Section 355-26.B(4)):	16,240 SF
3.	Amount of floor area contained within first floor: ____ existing + 2,905 SF proposed =	2,905 SF
4.	Amount of floor area contained within second floor: ____ existing + 683 SF proposed =	683 SF
5.	Amount of floor area contained within garage: ____ existing + 840 SF proposed =	840 SF
6.	Amount of floor area contained within porches capable of being enclosed: ____ existing + 293 SF proposed =	293 SF
7.	Amount of floor area contained within basement (if applicable – see definition): ____ existing + 1,752 SF proposed =	1,752 SF
8.	Amount of floor area contained within attic (if applicable – see definition): ____ existing + N/A proposed =	N/A
9.	Amount of floor area contained within all accessory buildings: ____ existing + 864 SF proposed =	864 SF
10.	Proposed **floor area:** Total of Lines 3 – 9 =	7,337 SF

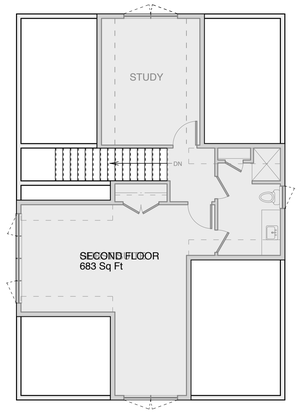
If Line 10 is less than or equal to Line 2, your proposal **complies** with the Town's maximum floor area regulations and the project may proceed to the Residential Project Review Committee for review. If Line 10 is greater than Line 2 your proposal does not comply with the Town's regulations.

Signature and Seal of Professional Preparing Worksheet

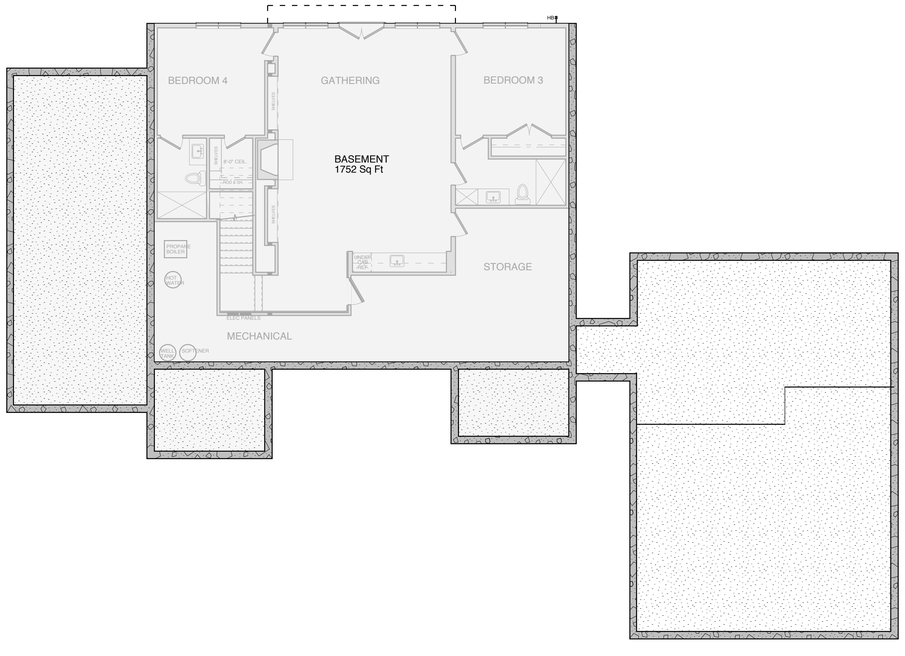
12/16/21
Date



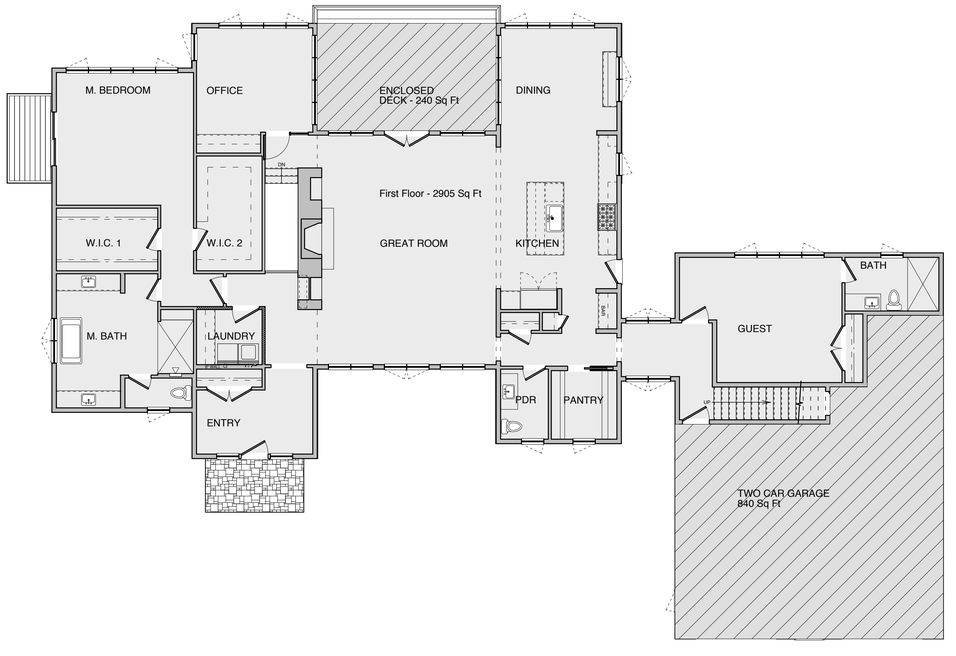
POOL HOUSE PLANS



GUEST SUITE OVER GARAGE



BASEMENT PLAN



FIRST FLOOR PLAN

SQUARE FOOTAGE CALCULATION PLANS

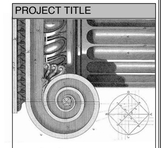
IMPORTANT NOTE:

THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTIO WITH THE WORK, FOR THE ACTS OR OMMISIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALWAYS USE DIMENSIONS AS SHOWN. DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR TO REPORT ANY DISCREPENCIES IMMEDIATELY TO THE ARCHITECT.

PREPARED BY

WILLIAM BATEMAN, ARCHITECT, AIA
DISTINCTIVE RESIDENTIAL ARCHITECTURE
INFO@WILLIAMBATEMAN.COM
518 788-7581
NEW YORK SOUTH CAROLINA

PROJECT TITLE



THE ABRAMO RESIDENCE

163 HICKORY KINGDOM ROAD
NORTH CASTLE, NY

RELEASE

- ■ FOR REVIEW
- □ FOR PERMITTING
- □ FOR CONSTRUCTION
- □ AS BUILT

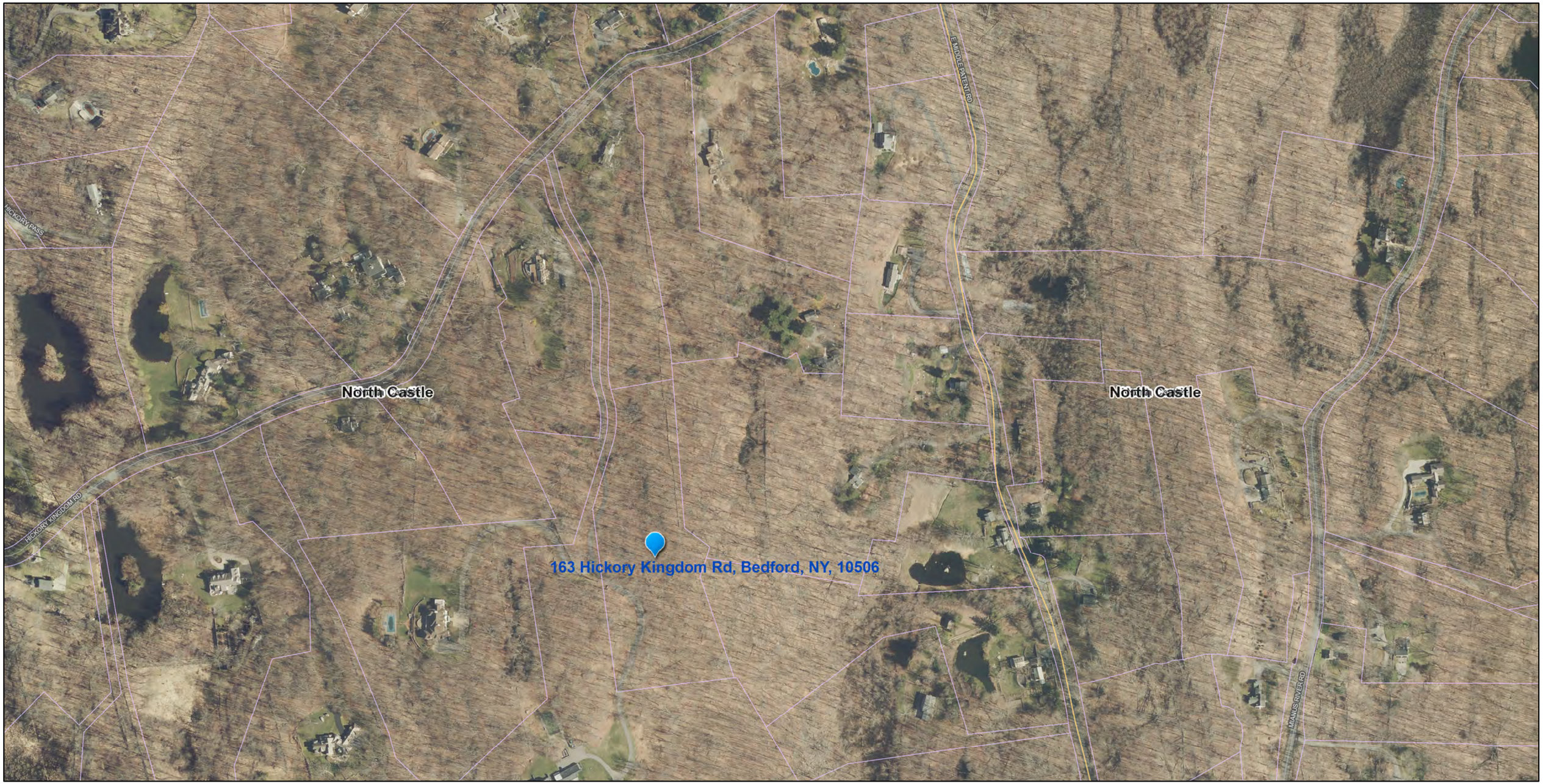
DATE PRINTED

Thu, Dec 16, 2021

SHEET NO.

A

Mapping Westchester County



7/16/2021, 11:49:28 AM

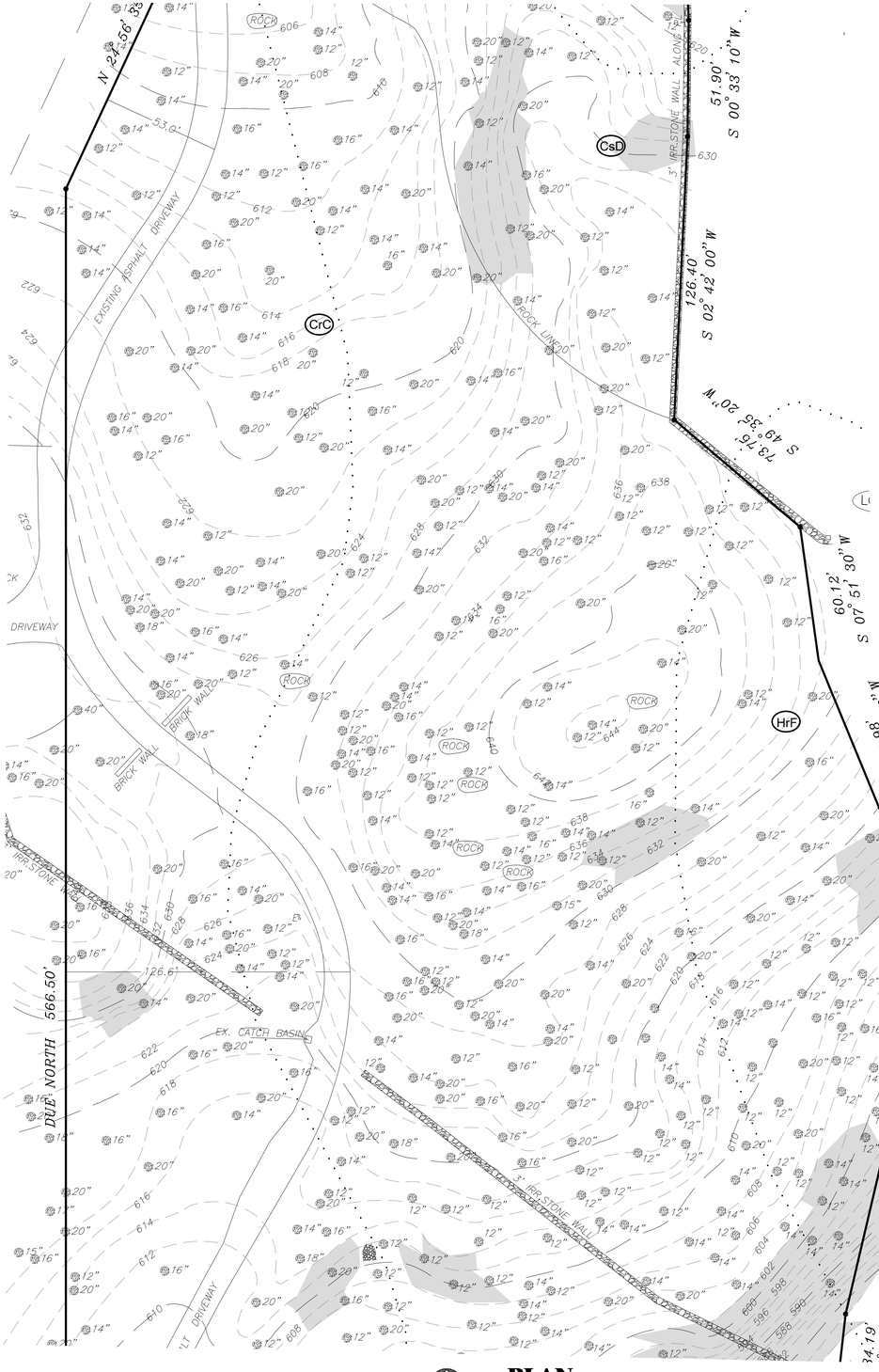
Municipal Boundaries

1:4,514

0 215 430 860 ft

N

GIS
http://giswww.westchestergov.com
Michaelian Office Building
148 Martine Avenue Rm 214
White Plains, New York 10601



PLAN

GRAPHIC SCALE

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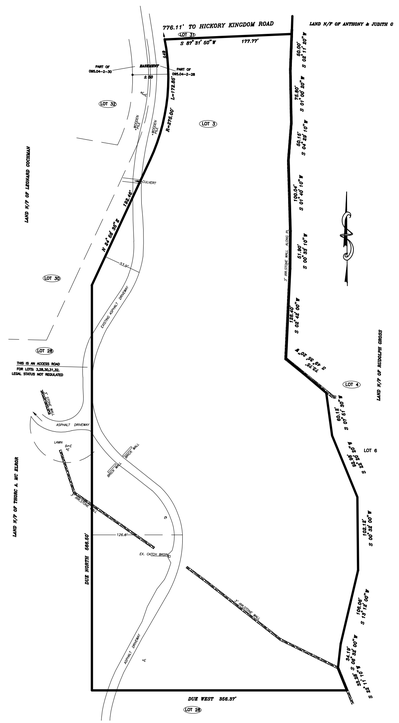
(IN FEET)

1 inch = 30 ft.

LOCATION MAP

1" = 1600'



INSET MAP

1" = 100'

LEGEND

- EXISTING PROPERTY LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- 410 EXISTING 10' CONTOUR
- 14" EXISTING TREE
- SOIL BOUNDARY LINE

CONTACT INFO:

MATTHEW ABRAMO
530 W 30TH ST APT 23A
NEW YORK, NY 10001

OLD BIBBO PROJECT NO. 2715

OLD WCDH PERMIT NO. NOC2000-11

P/O LEONARD GOCHMAN SUBDIVISION, MAP# 21099, DATE 7/30/82, R.S. LOT NO: 2

SEC NO: 95.04 **BLOCK NO: 2** **LOT NO: 3**

REVISIONS					
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

STATE OF NEW YORK · NICHOLAS GABOURY · LICENSED PROFESSIONAL ENGINEER · NO. 093349

NICHOLAS GABOURY P.E.

EXISTING CONDITIONS

ABRAMO - RESIDENCE

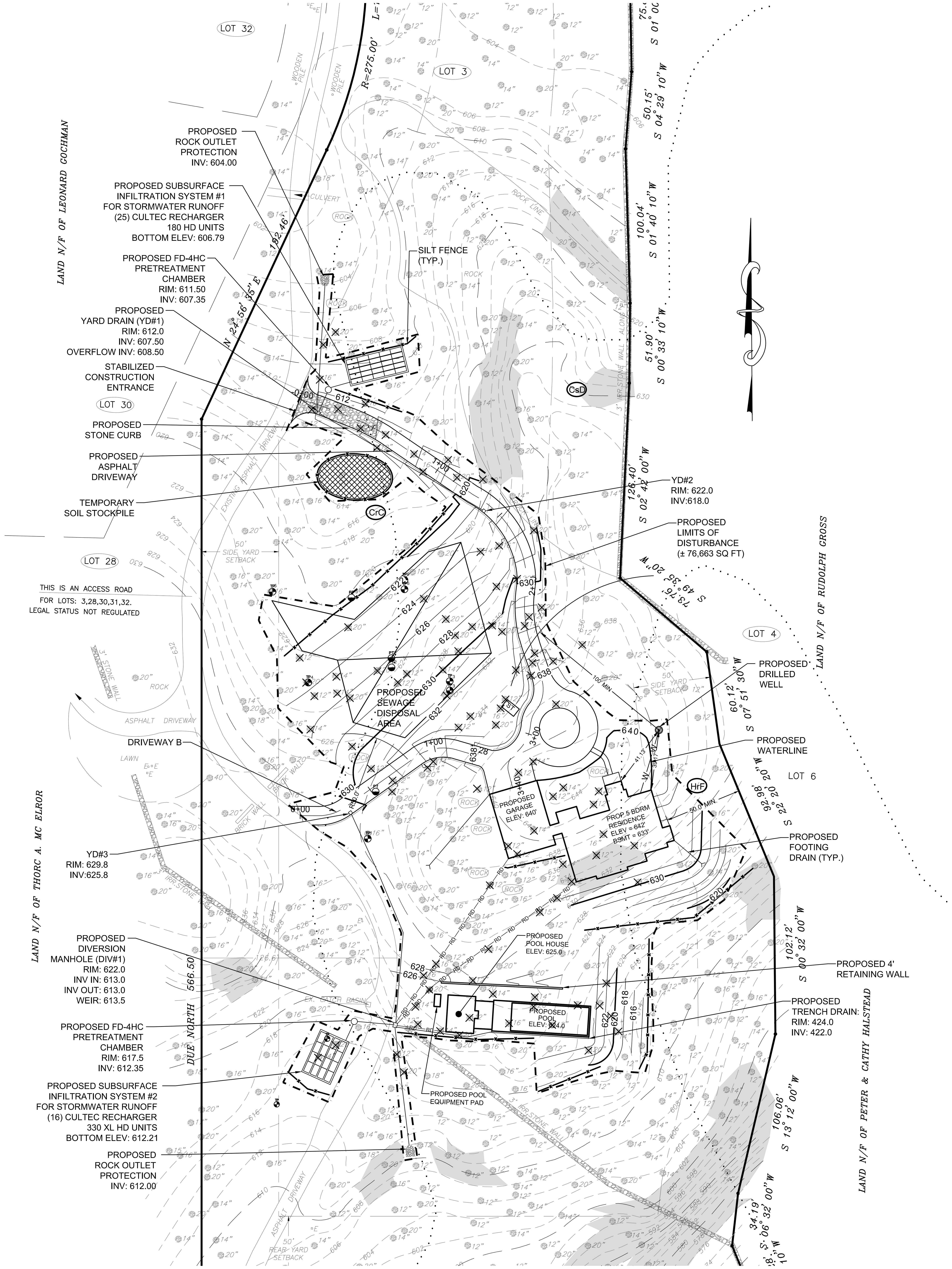
163 HICKORY KINGDOM ROAD
TOWN OF NORTH CASTLE, WESTCHESTER COUNTY, NY 10504

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	12-20-2021
SCALE:	AS SHOWN
FILE:	LL-1
DSGN / CHK:	NG
DRN. BY:	AW/NM
SHT NO.	1 OF 4
DWG NO.	**EX-1**

P:\Projects\POCANTICO-PARTNERS-ABRAMO\DWG\ABRAMO BASE MAP - 12-20-21.dwg, 12/20/2021 4:04:35 PM, AWilkowsky, 1:1

ZONING DATA		
TAX MAP DESIGNATION	SECTION 95.04, BLOCK 2, LOT 3	
ZONING DISTRICT	R-4A – RESIDENTIAL	
	MINIMUM REQUIREMENTS	PROVIDED
LOT AREA (ACRES)	4.0	6.015 (261,998 sf)
WIDTH (FT)	250	276.1
DEPTH (FT)	150	914.6
FRONT YARD (FT)	75	581.8
SIDE YARD (FT)	50	186.6 / 50.0
REAR YARD (FT)	50	266.6 / 168.4
MAXIMUM BLDG. COVERAGE (%)	6%	1.8%
MAX. GROSS LAND COV.	31,408 S.F.	13,434 S.F.



PLAN

GRAPHIC SCALE

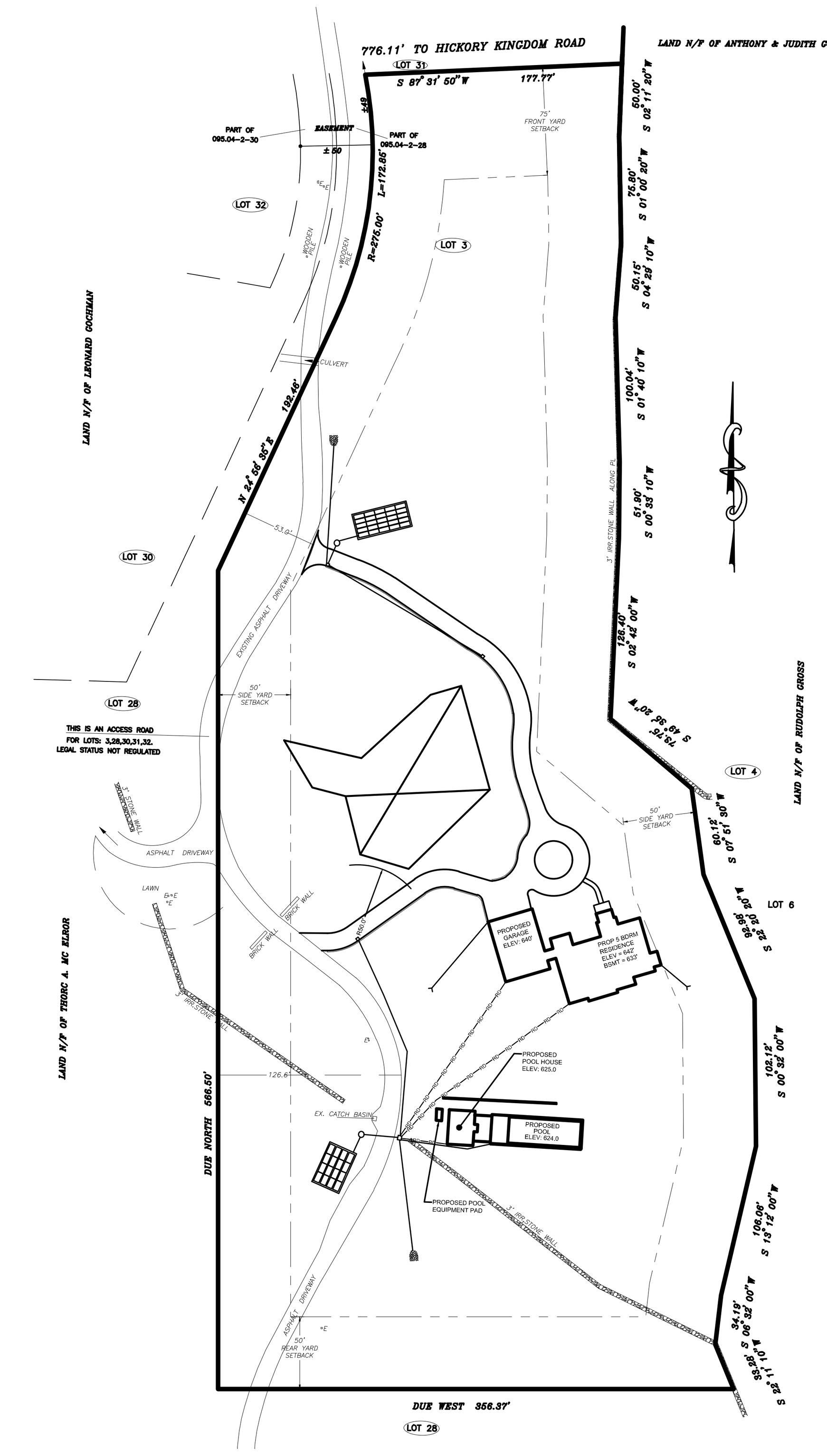
40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

LEGEND

- EXISTING PROPERTY LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR (410)
- SOIL TEST LOCATION (TP10)
- EXISTING TREE (14")
- EXISTING TREE TO BE REMOVED (14")
- PROPOSED 10' CONTOUR (330)
- PROPOSED 2' CONTOUR
- PRPOPOSED WATER LINE (W — W — W)
- SOIL BOUNDARY LINE
- TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED TEMPORARY SOIL STOCKPILE
- PROPOSED SILT FENCE
- LIMIT OF DISTURBANCE
- PROPOSED ROOF DRAINS (RD—RD—RD)
- PROPOSED SEPTIC TANK (ST)

LOCATION MAP
1" = 1600'



INSET MAP
1" = 100'

CONTACT INFO:

MATTHEW ABRAMO
530 W 30TH ST APT 23A
NEW YORK, NY 10001

OLD BIBBO PROJECT NO. 2715
OLD WCDH PERMIT NO. NOC2000-11

P/O LEONARD GOCHMAN SUBDIVISION, MAP# 21099, DATE 7/30/82, R.S. LOT NO: 2

SEC NO: 95.04 **BLOCK NO: 2** **LOT NO: 3**

REVISIONS: DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

SITE PLAN

ABRAMO - RESIDENCE
163 HICKORY KINGDOM ROAD
TOWN OF NORTH CASTLE, WESTCHESTER COUNTY, NY 10504

STATE OF NEW YORK · NICHOLAS GABOURY · LICENSED PROFESSIONAL ENGINEER · No. 089349
NICHOLAS GABOURY P.E.

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
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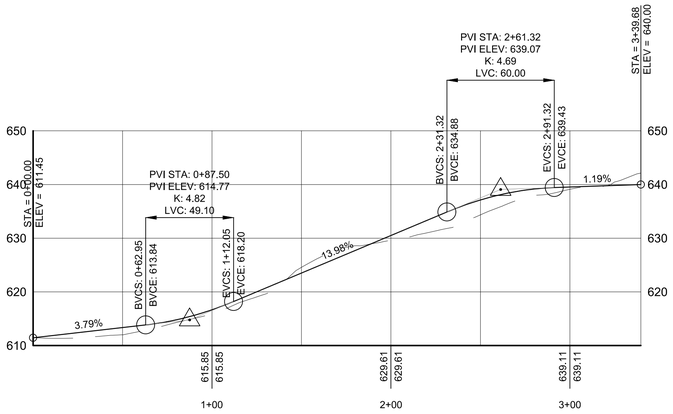
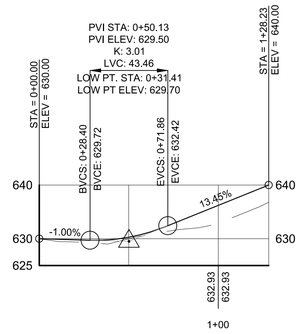
SHT NO.	4 OF 4
DWG NO.	SP-1

P:\Projects\POCANTICO-PARTNERS-ABRAMO\DWG\ABRAMO BASE MAP - 12-20-21.dwg, 12/20/2021 4:05:12 PM, AWitkowsky, 1:1



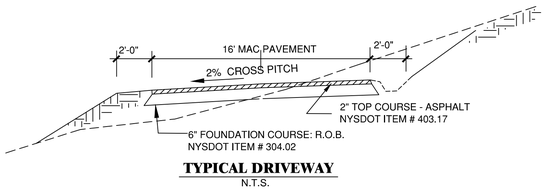
DRIVEWAY PROFILE

VERTICAL SCALE: 1" = 10'
HORIZONTAL SCALE: 1" = 40'

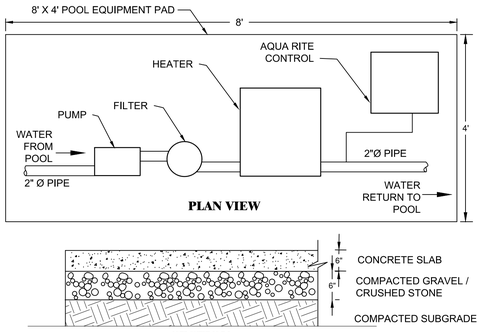


DRIVEWAY B PROFILE

VERTICAL SCALE: 1" = 10'
HORIZONTAL SCALE: 1" = 40'

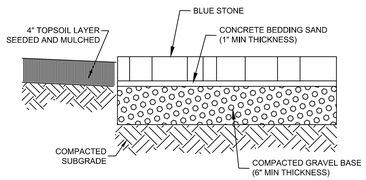


TYPICAL DRIVEWAY
N.T.S.



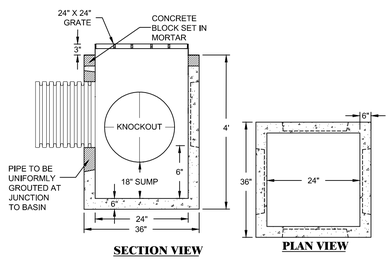
SECTION

POOL EQUIPMENT & CONC. PAD DETAIL



TYPICAL POOL PATIO SECTION

N.T.S.



YARD DRAIN DETAIL

N.T.S.
(RESIDENTIAL DRAIN AS MANUFACTURED
BY CONNECTICUT PRECAST CO.
H-20 LOADING REQUIRED)

CONTACT INFO:

MATTHEW ABRAMO
530 W 30TH ST APT 23A
NEW YORK, NY 10001

OLD BIBBO PROJECT NO. 2715
OLD WCDH PERMIT NO. NOC2000-11

P/O LEONARD GOCHMAN SUBDIVISION, MAP# 21099, DATE 7/30/82, R.S. LOT NO: 2
SEC NO: 95.04 BLOCK NO: 2 LOT NO: 3

REVISIONS					
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

STATE OF NEW YORK · NICHOLAS GABOURY · LICENSED PROFESSIONAL ENGINEER · NO. 093409

NICHOLAS GABOURY P.E.

DETAILS

ABRAMO - RESIDENCE
163 HICKORY KINGDOM ROAD
TOWN OF NORTH CASTLE, WESTCHESTER COUNTY, NY 10504

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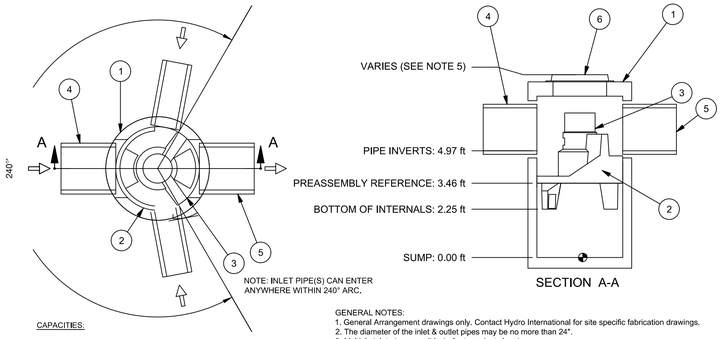


SECTION A-A

CAPACITIES:

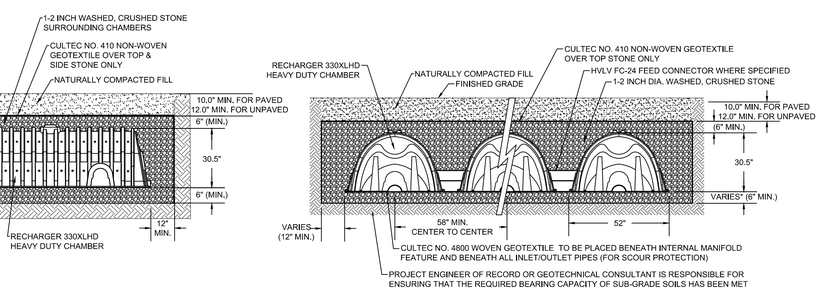
1. PEAK HYDRAULIC FLOW: 18.0 cfs
2. TREATMENT FLOW: 1.5 cfs (NJDEP CERTIFIED)
3. SEDIMENT STORAGE CAPACITY: 0.7 cu. yd.
4. OIL STORAGE CAPACITY: 191 gal.
5. MAXIMUM INLET/OUTLET PIPE DIAMETERS: 24 in.

Parts List		
ITEM	SIZE (in)	DESCRIPTION
1	48	I.D. PRECAST MANHOLE
2		LEDGER SUPPORT
3		SEPARATION MODULE
4		INLET PIPE (BY OTHERS)
5		OUTLET PIPE (BY OTHERS)
6	30	FRAME AND COVER (OR GRATE) (ROUND)

GENERAL NOTES:
1. General Arrangement drawings only. Contact Hydro International for site specific fabrication drawings.
2. The diameter of the inlet & outlet pipes may be no more than 24".
3. Multiple inlet pipes possible (refer to project plans).
4. Inlet/outlet pipe angle can vary to align with drainage network (refer to project plans).
5. Peak flow rate and minimum height limited by available cover and pipe diameter.
6. Larger sediment storage capacity may be provided with a deeper sump depth.

PRODUCT SPECIFICATIONS:
A. The treatment system shall use an induced vortex to separate pollutants from stormwater runoff.
B. The treatment system shall fit within the limits of excavation (area and depth) as shown in the project plans and will not exceed the dimensions for the design flow rates specified herein.
C. The treatment system shall remove greater than or equal to 90% of TSS based on the Target Particle Size (TPS) of 106 microns and/or 80% of TSS based on the TPS of 230 microns at 0.7 cfs and 1.2 cfs, respectively.
D. The treatment system shall convey the Peak On-line Flow Rates of up to 18 cfs without causing upstream surcharge conditions. Full-scale independent laboratory scour testing shall demonstrate effluent control of less than or equal to 5 mg/L for all flows up to 200% of MTFR-106.
E. The treatment system shall be capable of capturing and retaining fine silt and sand size particles. Analysis of captured sediment from full-scale field installations shall demonstrate particle sizes predominately in the 20-micron range

HYDRODYNAMIC SEPARATOR DETAIL
HYDRO INTERNATIONAL - FIRST DEFENSE MODEL FD-4HC
N.T.S.

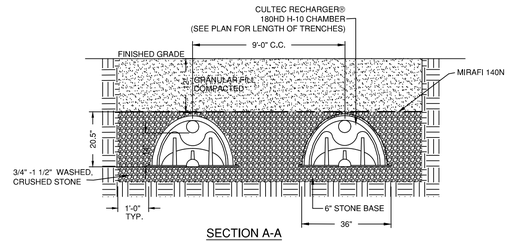


CULTEC, Inc.
Subsurface Stormwater Management Systems
P.O. Box 280
878 Federal Road
Brookfield, CT 06804
www.cultec.com

CULTEC RECHARGER 330XLHD
(N.T.S.)

GENERAL NOTES
RECHARGER 330XL HD BY CULTEC, INC, OF BROOKFIELD, CT.
REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS

ALL RECHARGER 330XL HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER. ALL RECHARGER 330XL HD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS

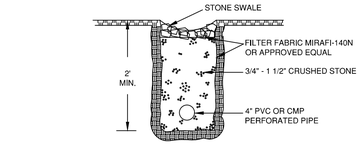


SECTION A-A

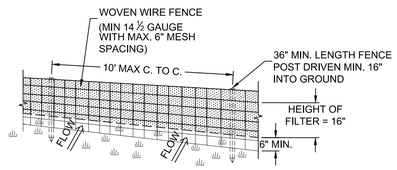
TYPICAL CROSS SECTION RECHARGER® 180HD
STANDARD H-10 CULTEC CHAMBER SYSTEM
N.T.S.

MANUFACTURER:
CULTEC INC.
878 FEDERAL ROAD
BROOKFIELD , CT 06804
(202) 775 - 4416

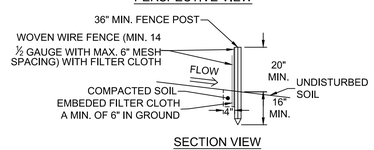
DIVERSION MANHOLE
N.T.S.



TRENCH DRAIN w/SWALE
N.T.S.



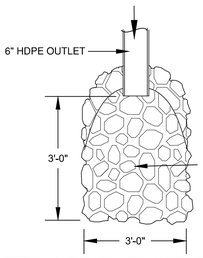
PERSPECTIVE VIEW



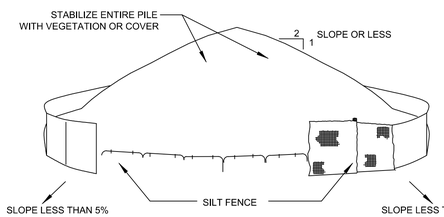
SECTION VIEW

CONSTRUCTION SPECIFICATIONS:
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL WITHER "T" OR "U" TYPE OR HARDWOOD
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL
N.T.S.



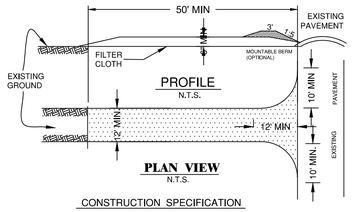
RIP RAP DRAINAGE OUTLET DETAIL
N.T.S.



INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE
2. MAXIMUM SLOPE OF STOCKPILING SHALL BE 1:2
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SILTATION FENCE DETAIL.

SOIL STOCKPILE DETAIL
N. T. S.



PLAN VIEW
N.T.S.

CONSTRUCTION SPECIFICATION

1) STONE SIZE- USE 2" STONE, OR RECYCLED CONCRETE EQUIVALENT.
2) LENGTH LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.)
3) THICKNESS- NOT LESS THAN SIX (6) INCHES.
4) WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5) FILTER CLOTH- WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6) SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE, IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7) MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8) WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE & WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9) PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL
N. T. S.

EROSION CONTROL PROGRAM:
PURPOSE:

ALL CONSTRUCTION ACTIVITIES INVOLVING THE REMOVAL OR DEPOSITION OF SOILS ARE TO BE PROVIDED WITH APPROPRIATE PROTECTIVE MEASURES TO INHIBIT EROSION AND TO CONTAIN SEDIMENT DEPOSITION WITHIN THE AREA UNDER DEVELOPMENT. THOSE METHODS DEEMED HIGHLY EFFECTIVE ARE DESCRIBED BELOW AND SHOWN ON THIS DRAWING.

REQUIRED PROCEDURES:
1. PRIOR TO THE START OF SITE CONSTRUCTION ALL CONSTRUCTION ENTRANCES TO THE SITE SHALL BE INSTALLED AND STABILIZED, AND ALL TEMPORARY SILT TRAPS AND/OR OTHER APPROVED SEDIMENT CONTROL MEASURES SHALL BE IN PLACE WHERE MOST EFFECTIVE.
2. ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL REMAIN IN PLACE, MAINTAINED REGULARLY IN PROPER FUNCTIONING CONDITION UNTIL ALL AREAS EXPOSED DURING SITE CONSTRUCTION HAVE BEEN SUITABLY STABILIZED WITH PAVEMENT, PERMANENT STRUCTURES AND /OR FINAL VEGETATIVE COVER.

CONSTRUCTION GUIDELINES:
1. WHEREVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED BY FLAGGING OR OTHER EFFECTIVE MEANS.
2. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION.
3. SITE CONSTRUCTION ACTIVITIES SHALL START WHENEVER POSSIBLE AT THE NEAREST POINT UPSTREAM OF THE SILT TRAPS AND PROCEED TO ACTIVITIES FURTHER UPSTREAM.
4. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE PERIOD OF EXPOSURE SHALL BE KEPT TO A MINIMUM, INSTALLING PERMANENT AND FINAL VEGETATION, PAVING, STRUCTURES, ETC., AT THE EARLIEST POSSIBLE OPPORTUNITY.
5. EROSION CONTROL MEASURES SHOWN ON THIS PLAN REPRESENT MINIMUM REQUIREMENTS FOR SITE EROSION CONTROL. FURTHER MEASURES MAY BE REQUIRED BY THE DESIGN ENGINEER DURING CONSTRUCTION BASED UPON SITE CONDITIONS.
6. NOTES ON STABILIZATION:
   A. ALL TOPSOIL TO BE STRIPPED FROM THE AREA BEING DEVELOPED, SHALL BE STOCKPILED NOT LESS THAN 150 FEET FROM ANY BODY OF SURFACE WATER AND SHALL BE IMMEDIATELY SEEDED AS SPECIFIED IN ITEM D BELOW.
   B. ON ALL EMBANKMENT FILL SLOPES, TOPSOIL SHALL BE STRIPPED AT LEAST FIVE (5) FEET WIDER THAN REQUIRED FOR THE EMBANKMENT TOE OF SLOPE. A PROTECTIVE BERM OF TOPSOIL SHALL BE LEFT IN THIS AREA RUNNING PARALLEL TO THE CONTOURS FOR THE PURPOSE OF RESTRICTING DRAINAGE RUNOFF. THE TOPSOIL BERM SHALL BE SEEDED AS REQUIRED FOR STOCKPILES.
   C. FURTHER EROSION AND SILTATION CONTROL MEASURES WHICH SHALL CONFORM TO THE STANDARDS OF THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION & SEDIMENT CONTROL SHALL ALSO BE EMPLOYED WHERE WHERE NECESSARY FOR SUPPLEMENTARY EROSION CONTROL MEASURES.
   D. ALL CUT SLOPES AND EMBANKMENT FILLS ARE TO BE IMMEDIATELY LAID BACK AND STABILIZED AS FOLLOWS:
      1. GRADED TO FINISHED SLOPES
      2. SCARIFIED
      3. TOPSOILED WITH NOT LESS THAN FOUR (4) INCHES OF SUITABLE TOPSOIL MATERIAL
      4. SEEDED WITH THE FOLLOWING GRASS MIXTURE BY WEIGHT (OR APPROVED EQUAL):
         50% KENTUCKY BLUE GRASS
         50% PERENNIAL RYE GRASS
         (SEED SHALL BE APPLIED AT THE RATE OF NOT LESS THAN 3-4 POUNDS PER 1000 S.F.)
      5. MULCHED WITH STRAW AT TWO (2) TONS/ACRE AND ANCHORED IN A SUITABLE MANOR. WHERE SLOPES EXCEED 3:1, SUITABLY ANCHORED NETTING SUCH SUCH AS TENEX N030 OR APPROVED EQUAL SHALL BE UTILIZED.

PIPE DIAMETER Ø	TRENCH WIDTH
4"	21"
6"	23"
8"	25"
12"	31"
15"	34"
18"	39"
24"	48"
30"	66"

ADDITIONAL NOTES:
1. ANY ADDITIONAL REQUIREMENTS AND SPECIFICATIONS SET FORTH BY THE PIPE MANUFACTURER MUST BE FOLLOWED FOR BACKFILLING
2. BACK FILL MATERIAL TO BE FREE OF FROST & STONES OVER 8" IN SIZE & COMPACTED AS REQUIRED

DRAINAGE PIPE INSTALLATION
N.T.S.

CONTACT INFO:

MATTHEW ABRAMO
530 W 30TH ST APT 23A
NEW YORK, NY 10001

OLD BIBBO PROJECT NO. 2715
OLD WCDH PERMIT NO. NOC2000-11

P/O LEONARD GOCHMAN SUBDIVISION, MAP# 21099, DATE 7/30/82, R.S. LOT NO: 2
SEC NO: 95.04 BLOCK NO: 2 LOT NO: 3

REVISIONS:					
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

NICHOLAS GABOURY P.E.

DETAILS
ABRAMO - RESIDENCE
163 HICKORY KINGDOM ROAD
TOWN OF NORTH CASTLE, WESTCHESTER COUNTY, NY 10504

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	12-20-2021
SCALE:	AS SHOWN
FILE:	LL-1
DSGN / CHK:	NG
DRN. BY:	AW/NM
SHT NO.	4 OF 4
DWG NO.	D-2

P:\Projects\POCANTICO-PARTNERS-ABRAMO\DWG\ABRAMO BASE MAP – 12-20-21.dwg, 12/20/2021 4:06:46 PM, AWitkowsky, 1:1

Drainage Calculations

Abramo Residence
163 Hickory Kingdom Road

Prepared By:

Nicholas Gaboury, P.E.
N.Y.S. License #: 099349

Rev.
Date: 12/20/2021

Enclosed herewith are stormwater calculations for the proposed site improvements at 163 Hickory Kingdom Road, located in the Town of North Castle.

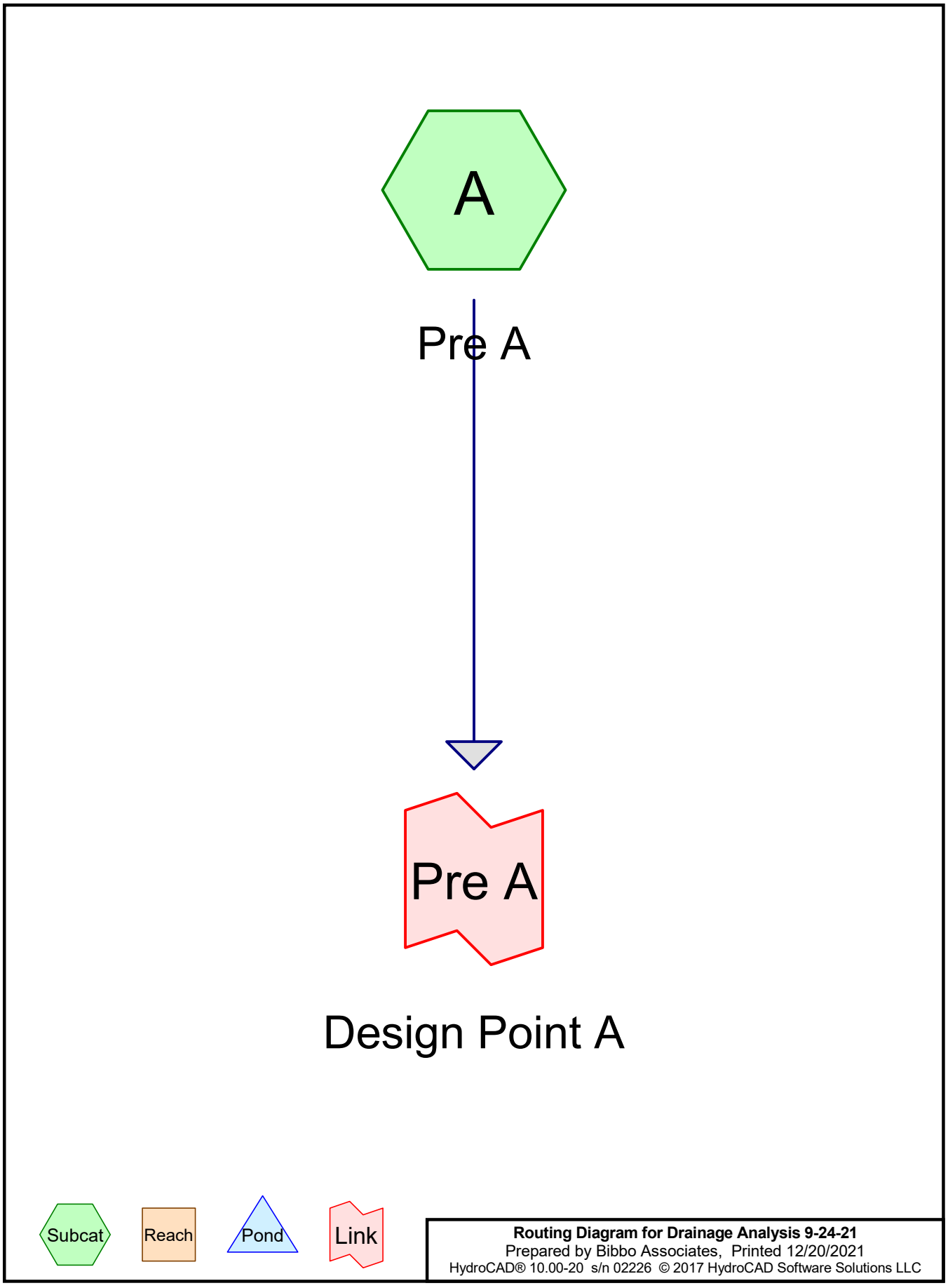
The site is currently vacant with a common driveway along the west side of the property. The residence will be served by a proposed onsite sewage disposal system and a proposed drilled well. The property drains towards the northern and southern property line due to a high point in the center of the property. The property is located in the Long Island Sound Basin and the total area of disturbance is 1.76 Acres. Soils identified within the area of disturbance consist of Charlton-Chatfield, Chatfield-Charlton, and Hollis-Rock outcrop complex. Charlton-Chatfield and Chatfield-Charlton belong to hydrologic group B. Hollis-Rock outcrop complex belongs to hydrologic group D. A soil map has been provided herewith.

The applicant is proposing to construct a single-family residence, driveway, and pool. The project will result in an addition of 13,434 sqft. of impervious coverage on the site. In order to mitigate the additional impervious surfaces, a stormwater management system has been designed for the site. Runoff will be collected from the new impervious areas with proposed yard drains and a trench drain. The stormwater enters a yard drain which then conveys it to underground infiltration systems. Infiltration system #1 consists of 16 (4x4) Cultec Recharger 180HD units. Infiltration system #2 consists of 16 (4x4) Cultec Recharger 330XL HD units. The infiltration systems will be provided pretreatment by the First Defense Unit capable of providing treatment to flows up to 1.50 cfs. Overflow from the infiltration systems will be diverted to proposed rock outlet protections. All proposed stormwater conveyance piping shall be high density polyethylene pipe (HDPE) unless otherwise noted.

The proposed infiltration systems have been sized to attenuate the post-development peak discharge from the 25-year storm to predevelopment rates, as required by the North Castle Town Code. In order to analyze the impact of the proposed construction, a stormwater model of the pool area was developed for both pre-development and post-development conditions. Design Point A was selected on the north west property line and Design Line B was taken along the 610 contour on the southern portion of the property. Please see the Watershed Map attached with this report.

HydroCAD v. 10.0, a computer-modeling program based upon TR-20, was used to generate peak flows from the subcatchments. In the program, the user inputs various characteristics for each subcatchment including a curve number and time of concentration. These two parameters relate runoff to the specific land characteristics of the subcatchment. Based upon the inputted data, peak flows are generated for the 25-year storm events for the pre-development and post-development subcatchments. HydroCAD output reports are located at the end of this report. The HydroCAD reports demonstrate that the stormwater management design will result in reduced peak flows from the project site under the post-construction conditions.

HydroCAD Output Reports


A
Pre A
Pre A
Design Point A
Subcat
Reach
Pond
Link

Summary for Subcatchment A: Pre A

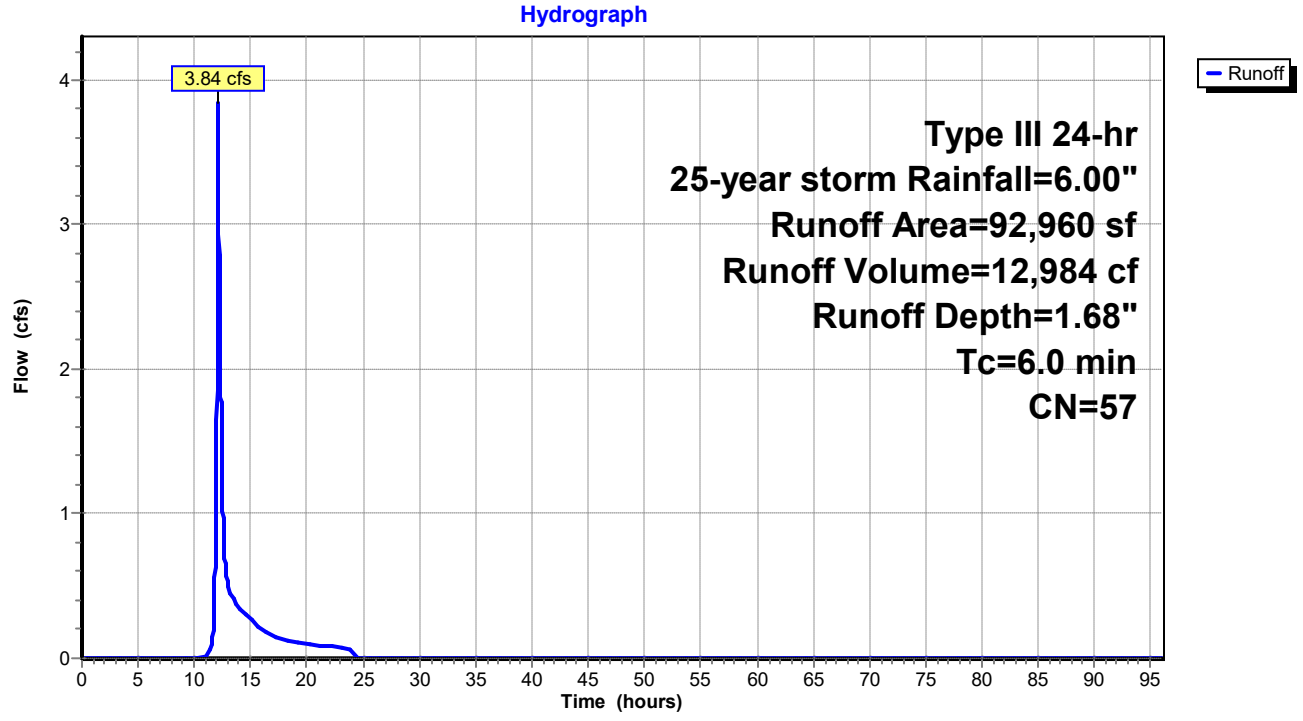
Runoff = 3.84 cfs @ 12.10 hrs, Volume= 12,984 cf, Depth= 1.68"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-year storm Rainfall=6.00"

	Area (sf)	CN	Description
*	3,482	98	Common Dirve
	2,494	61	>75% Grass cover, Good, HSG B
	86,984	55	Woods, Good, HSG B
	92,960	57	Weighted Average
	89,478		96.25% Pervious Area
	3,482		3.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment A: Pre A

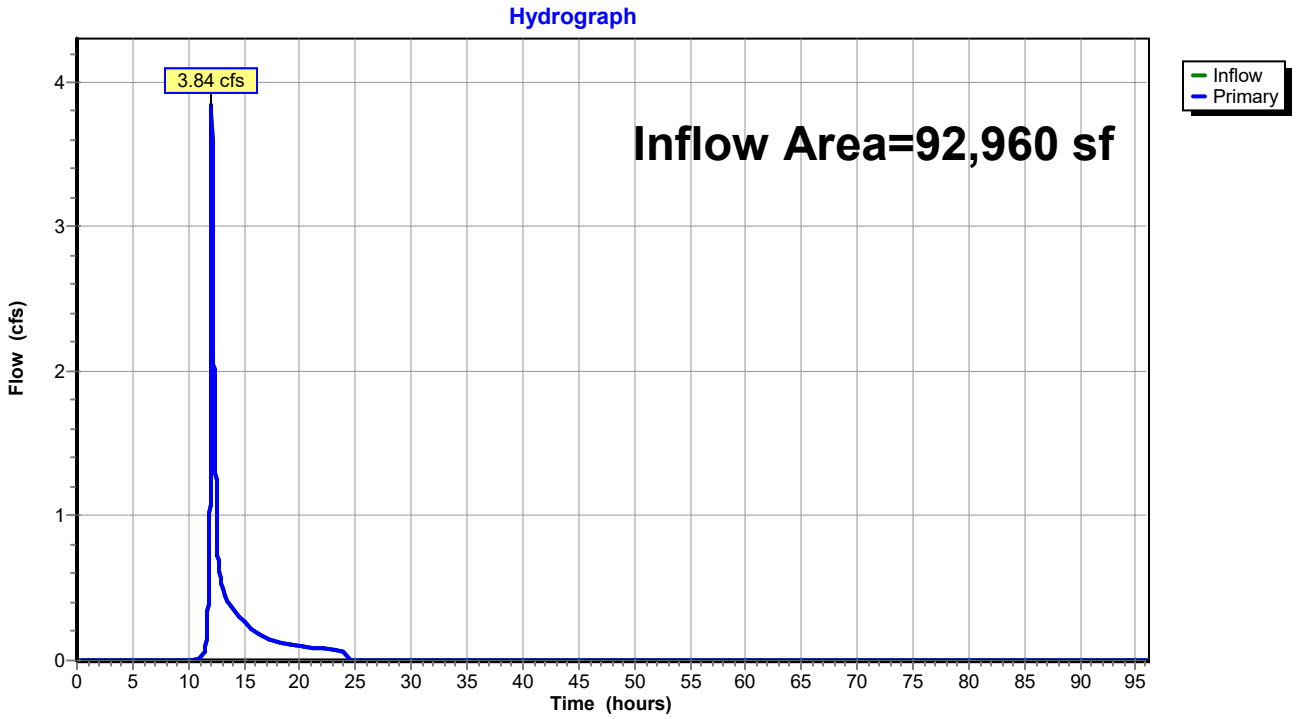


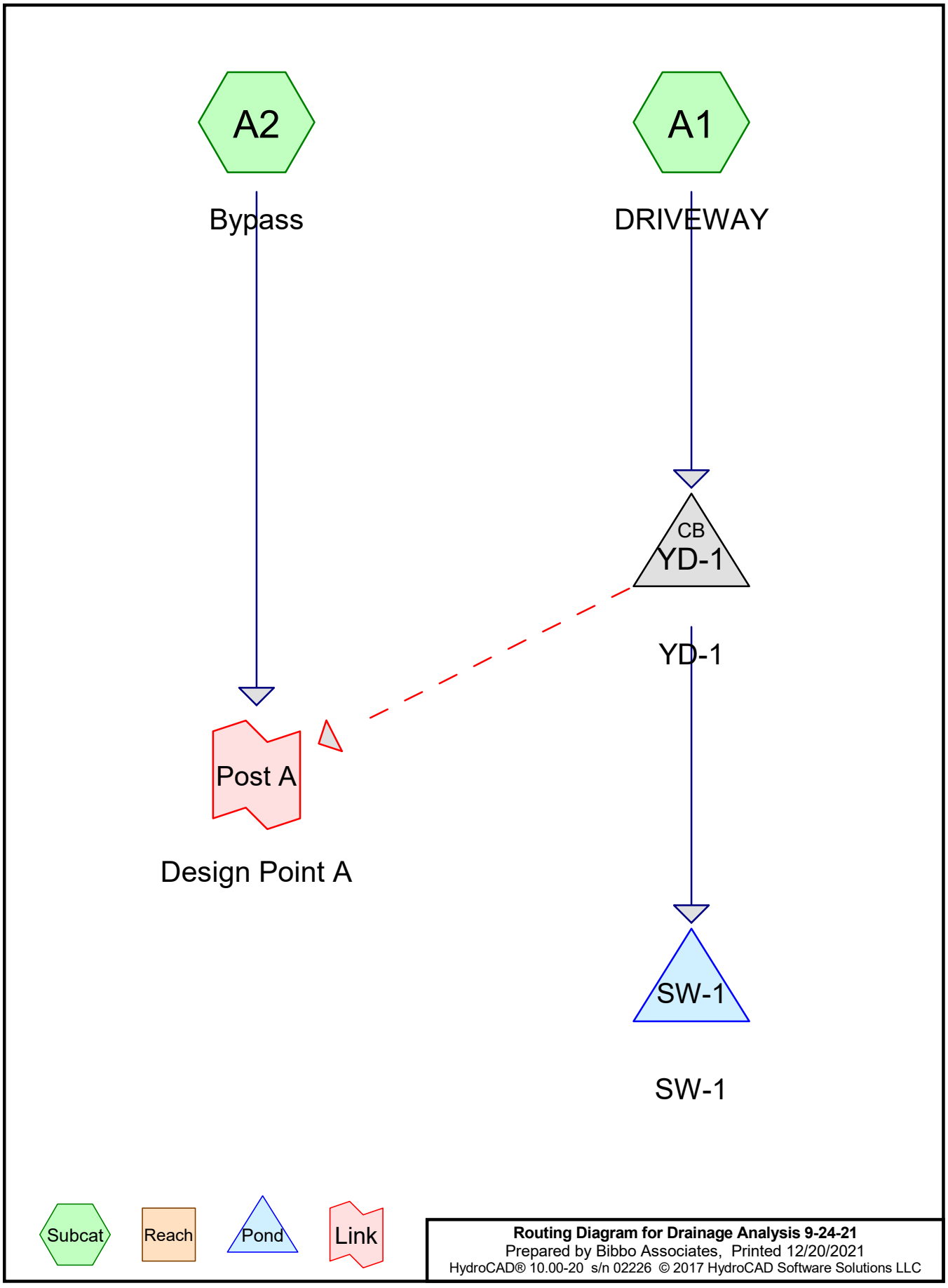
Summary for Link Pre A: Design Point A

Inflow Area = 92,960 sf, 3.75% Impervious, Inflow Depth = 1.68" for 25-year storm event
Inflow = 3.84 cfs @ 12.10 hrs, Volume= 12,984 cf
Primary = 3.84 cfs @ 12.10 hrs, Volume= 12,984 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link Pre A: Design Point A





Routing Diagram for Drainage Analysis 9-24-21
Prepared by Bibbo Associates, Printed 12/20/2021

Summary for Subcatchment A1: DRIVEWAY

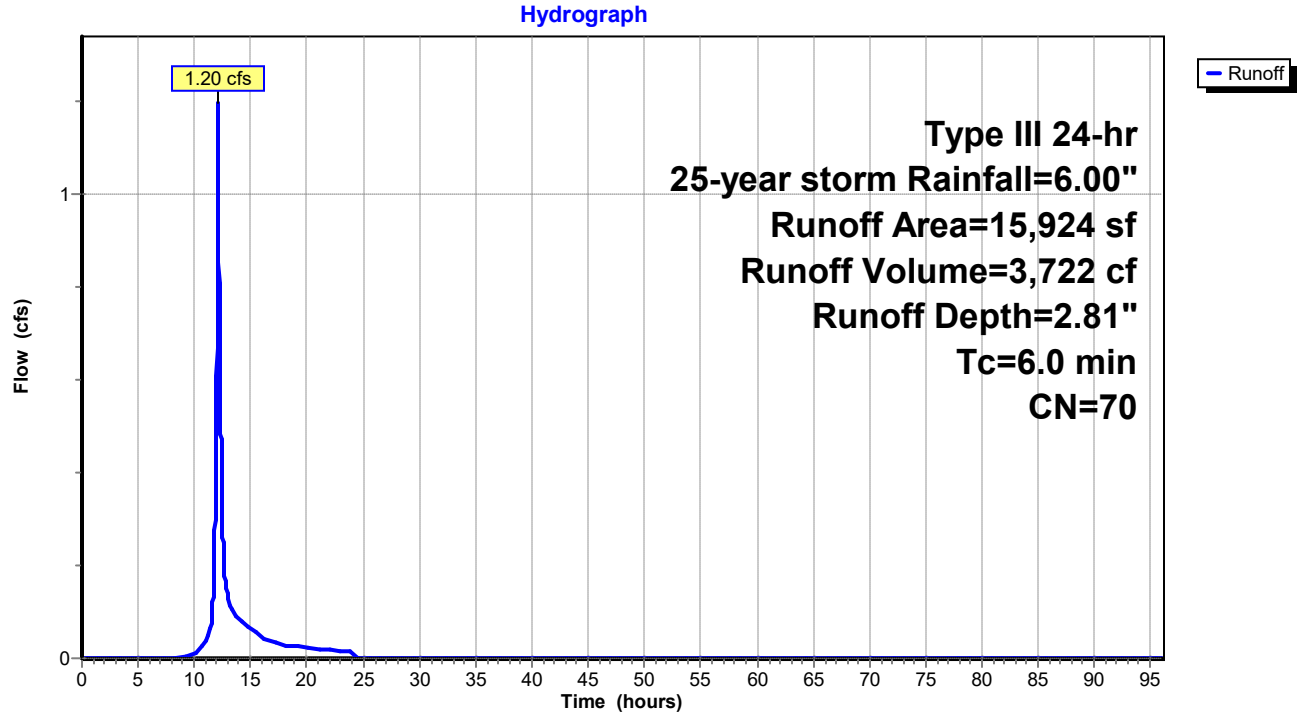
Runoff = 1.20 cfs @ 12.09 hrs, Volume= 3,722 cf, Depth= 2.81"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-year storm Rainfall=6.00"

	Area (sf)	CN	Description
*	4,870	98	Driveway
	3,956	61	>75% Grass cover, Good, HSG B
	7,098	55	Woods, Good, HSG B
	15,924	70	Weighted Average
	11,054		69.42% Pervious Area
	4,870		30.58% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment A1: DRIVEWAY



Summary for Subcatchment A2: Bypass

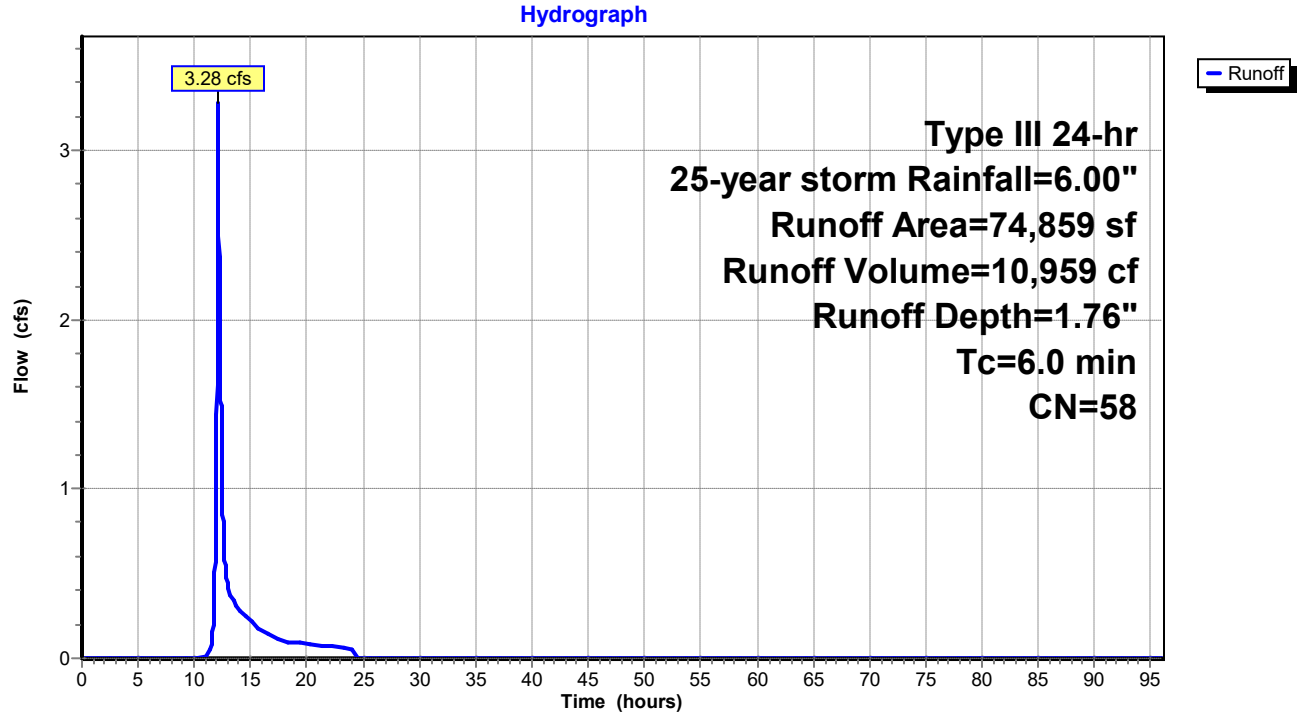
Runoff = 3.28 cfs @ 12.10 hrs, Volume= 10,959 cf, Depth= 1.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-year storm Rainfall=6.00"

	Area (sf)	CN	Description
*	3,790	98	Driveway
	11,459	61	>75% Grass cover, Good, HSG B
	59,610	55	Woods, Good, HSG B
	74,859	58	Weighted Average
	71,069		94.94% Pervious Area
	3,790		5.06% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment A2: Bypass



Summary for Pond SW-1: SW-1

Inflow Area = 15,924 sf, 30.58% Impervious, Inflow Depth = 2.15" for 25-year storm event
Inflow = 1.20 cfs @ 12.09 hrs, Volume= 2,853 cf
Outflow = 0.09 cfs @ 11.65 hrs, Volume= 2,853 cf, Atten= 93%, Lag= 0.0 min
Discarded = 0.09 cfs @ 11.65 hrs, Volume= 2,853 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Peak Elev= 608.90' @ 12.21 hrs Surf.Area= 624 sf Storage= 861 cf

Plug-Flow detention time= 79.8 min calculated for 2,853 cf (100% of inflow)
Center-of-Mass det. time= 79.8 min (944.9 - 865.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	606.79'	451 cf	**18.00'W x 34.65'L x 2.71'H Field A** 1,689 cf Overall - 561 cf Embedded = 1,128 cf x 40.0% Voids
#2A	607.29'	561 cf	**Cultec R-180** x 25 Inside #1 Effective Size= 33.6"W x 20.0"H => 3.44 sf x 6.33'L = 21.8 cf Overall Size= 36.0"W x 20.5"H x 7.33'L with 1.00' Overlap Row Length Adjustment= +1.00' x 3.44 sf x 5 rows
		1,013 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	606.79'	**6.000 in/hr Exfiltration over Horizontal area** Phase-In= 0.10'

Discarded OutFlow Max=0.09 cfs @ 11.65 hrs HW=606.90' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.09 cfs)

Pond SW-1: SW-1 - Chamber Wizard Field A

Chamber Model = Cultec R-180 (Cultec Recharger® 180HD - DISCONTINUED, Not for new designs)
Effective Size= 33.6"W x 20.0"H => 3.44 sf x 6.33'L = 21.8 cf
Overall Size= 36.0"W x 20.5"H x 7.33'L with 1.00' Overlap
Row Length Adjustment= +1.00' x 3.44 sf x 5 rows

36.0" Wide + 3.0" Spacing = 39.0" C-C Row Spacing

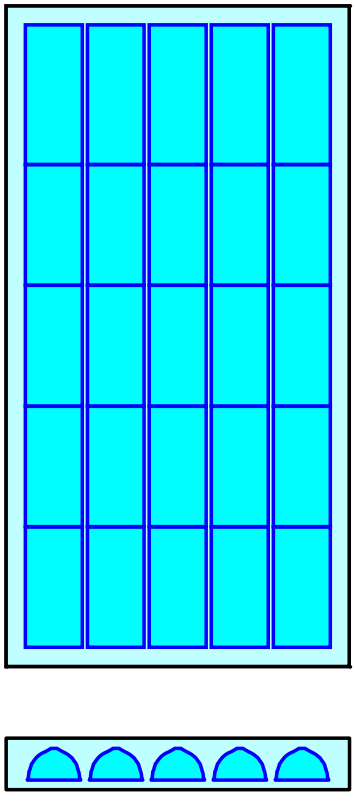
5 Chambers/Row x 6.33' Long +1.00' Row Adjustment = 32.65' Row Length +12.0" End Stone x 2 = 34.65' Base Length
5 Rows x 36.0" Wide + 3.0" Spacing x 4 + 12.0" Side Stone x 2 = 18.00' Base Width
6.0" Base + 20.5" Chamber Height + 6.0" Cover = 2.71' Field Height

25 Chambers x 21.8 cf +1.00' Row Adjustment x 3.44 sf x 5 Rows = 561.5 cf Chamber Storage

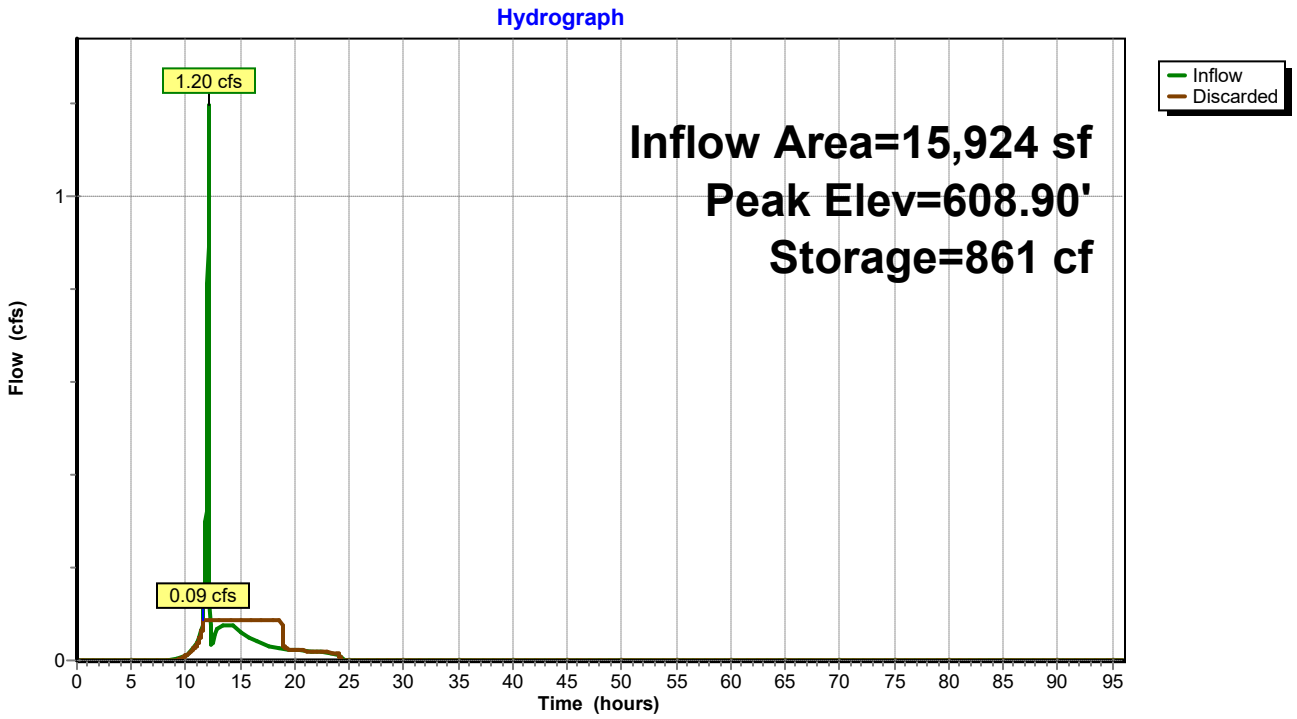
1,689.2 cf Field - 561.5 cf Chambers = 1,127.7 cf Stone x 40.0% Voids = 451.1 cf Stone Storage

Chamber Storage + Stone Storage = 1,012.6 cf = 0.023 af
Overall Storage Efficiency = 59.9%
Overall System Size = 34.65' x 18.00' x 2.71'

25 Chambers
62.6 cy Field
41.8 cy Stone



Pond SW-1: SW-1


Hydrograph
Inflow
Discarded
1.20 cfs
0.09 cfs
Inflow Area=15,924 sf
Peak Elev=608.90'
Storage=861 cf
Flow (cfs)
0
1
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95
Time (hours)

Summary for Pond YD-1: YD-1

Inflow Area = 15,924 sf, 30.58% Impervious, Inflow Depth = 2.81" for 25-year storm event
Inflow = 1.20 cfs @ 12.09 hrs, Volume= 3,722 cf
Outflow = 1.20 cfs @ 12.09 hrs, Volume= 3,722 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.20 cfs @ 12.09 hrs, Volume= 2,853 cf
Secondary = 0.63 cfs @ 12.22 hrs, Volume= 870 cf

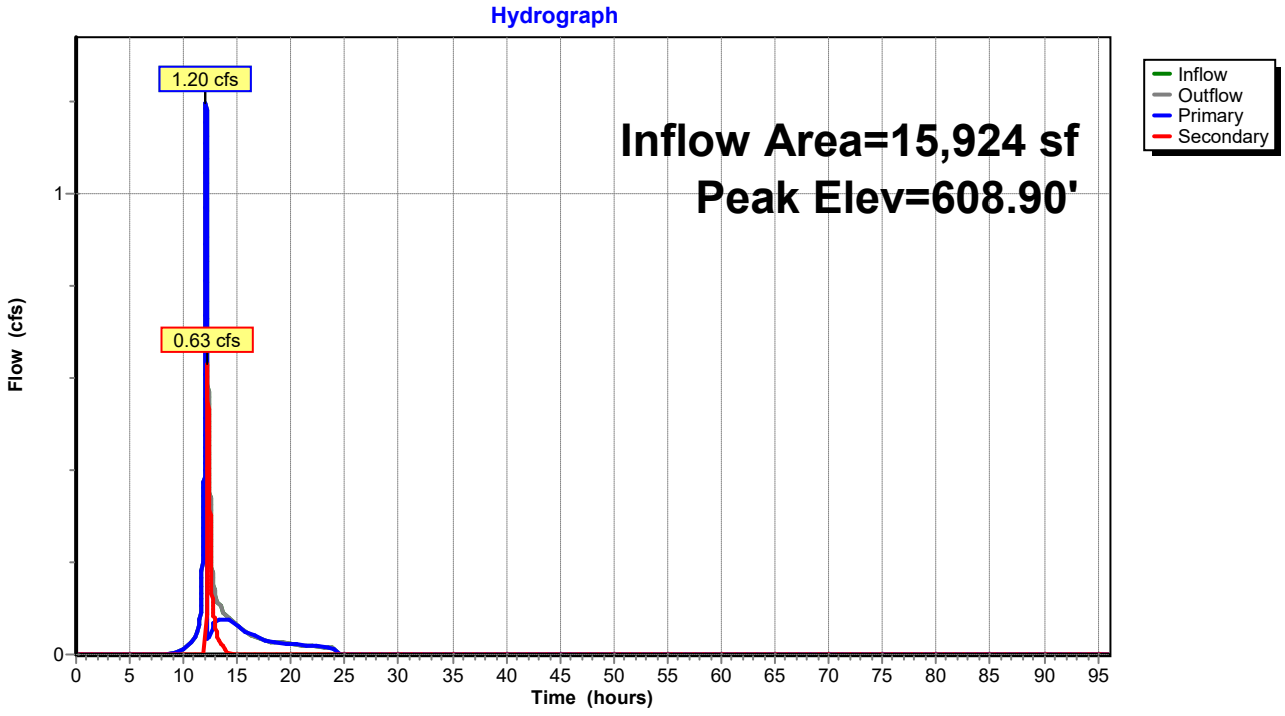
Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Peak Elev= 608.90' @ 12.22 hrs
Flood Elev= 374.75'

Device	Routing	Invert	Outlet Devices
#1	Primary	607.50'	**10.0" Round Primary** L= 27.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 607.50' / 607.21' S= 0.0107 '/' Cc= 0.900 n= 0.012, Flow Area= 0.55 sf
#2	Secondary	608.50'	**12.0" Round Secondary** L= 83.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 608.50' / 604.00' S= 0.0542 '/' Cc= 0.900 n= 0.012, Flow Area= 0.79 sf

Primary OutFlow Max=0.95 cfs @ 12.09 hrs HW=608.39' TW=608.25' (Dynamic Tailwater)
└─**1=Primary** (Outlet Controls 0.95 cfs @ 2.03 fps)

Secondary OutFlow Max=0.63 cfs @ 12.22 hrs HW=608.90' TW=0.00' (Dynamic Tailwater)
└─**2=Secondary** (Inlet Controls 0.63 cfs @ 2.15 fps)

Pond YD-1: YD-1

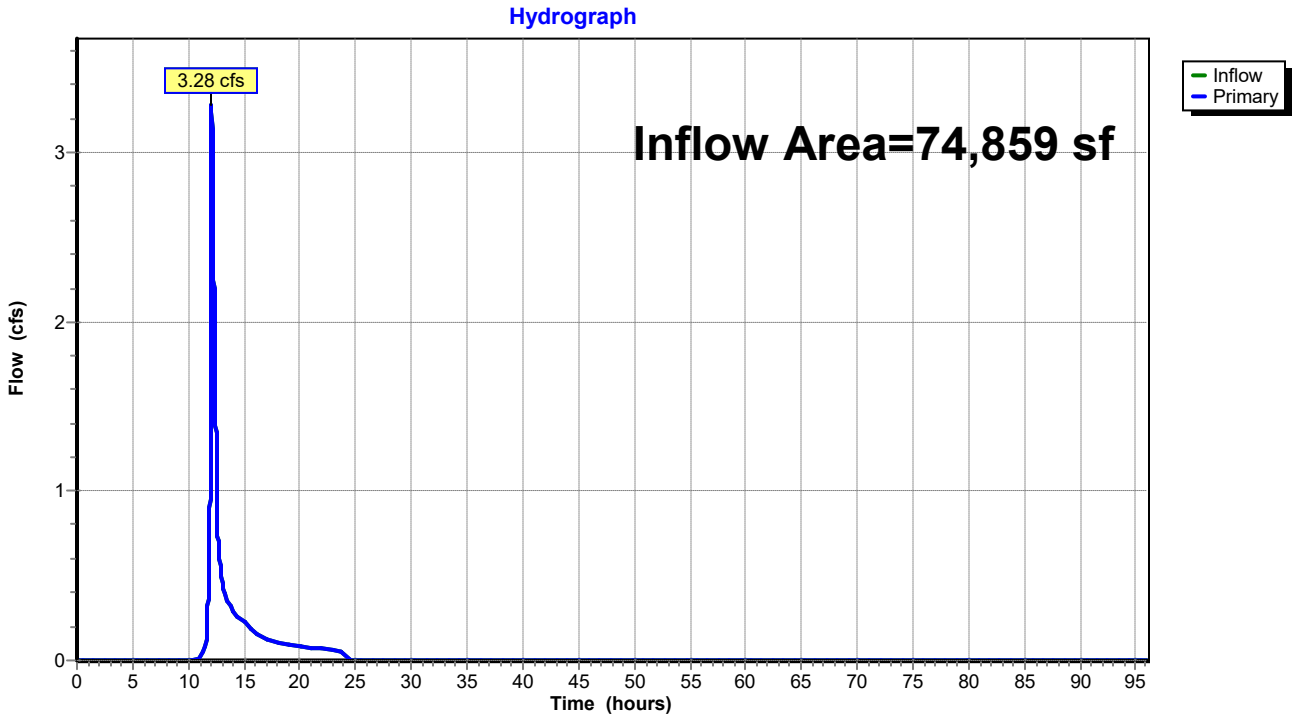


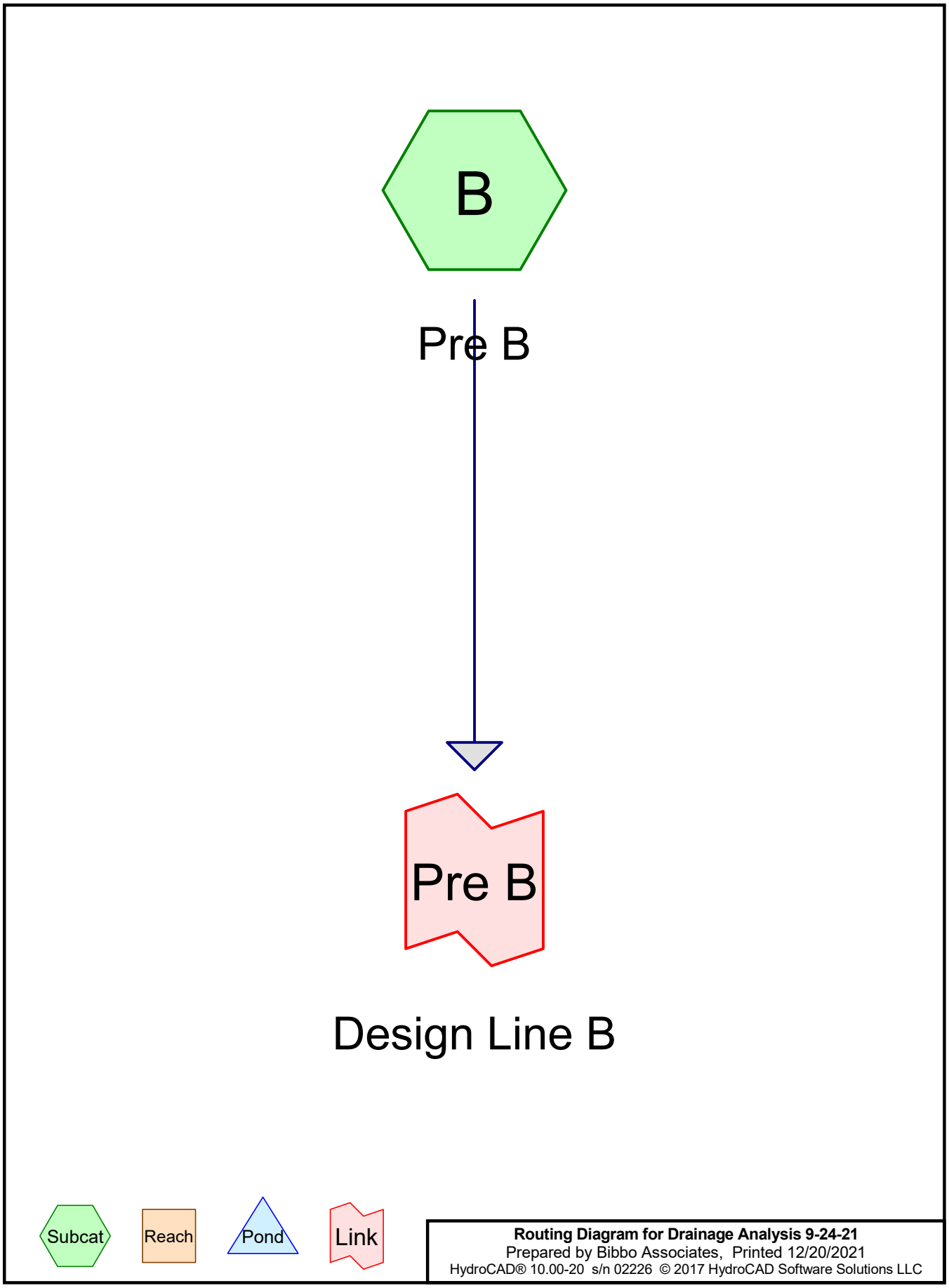
Summary for Link Post A: Design Point A

Inflow Area = 74,859 sf, 5.06% Impervious, Inflow Depth = 1.90" for 25-year storm event
Inflow = 3.28 cfs @ 12.10 hrs, Volume= 11,829 cf
Primary = 3.28 cfs @ 12.10 hrs, Volume= 11,829 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link Post A: Design Point A




B
Pre B
Pre B
Design Line B
Subcat
Reach
Pond
Link

Summary for Subcatchment B: Pre B

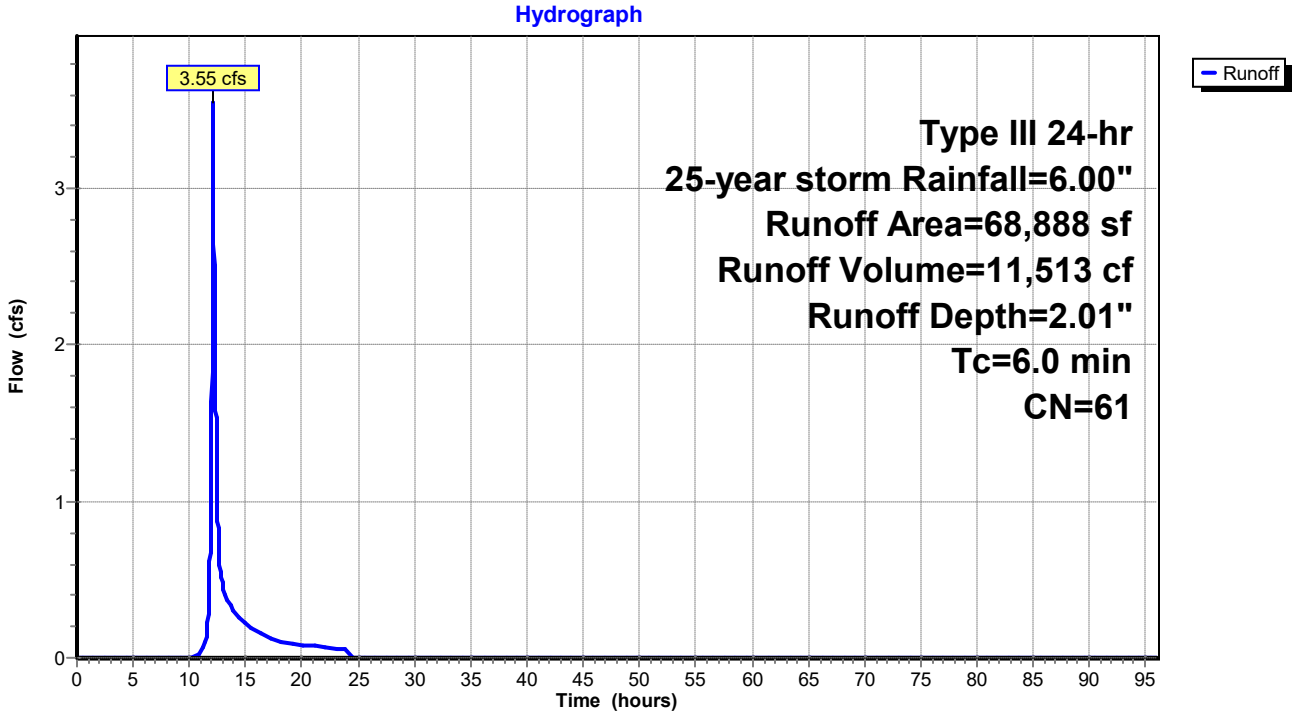
Runoff = 3.55 cfs @ 12.10 hrs, Volume= 11,513 cf, Depth= 2.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-year storm Rainfall=6.00"

	Area (sf)	CN	Description
*	3,400	98	Common Drive
	9,172	61	>75% Grass cover, Good, HSG B
	9,214	77	Woods, Good, HSG D
	47,102	55	Woods, Good, HSG B
	68,888	61	Weighted Average
	65,488		95.06% Pervious Area
	3,400		4.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment B: Pre B

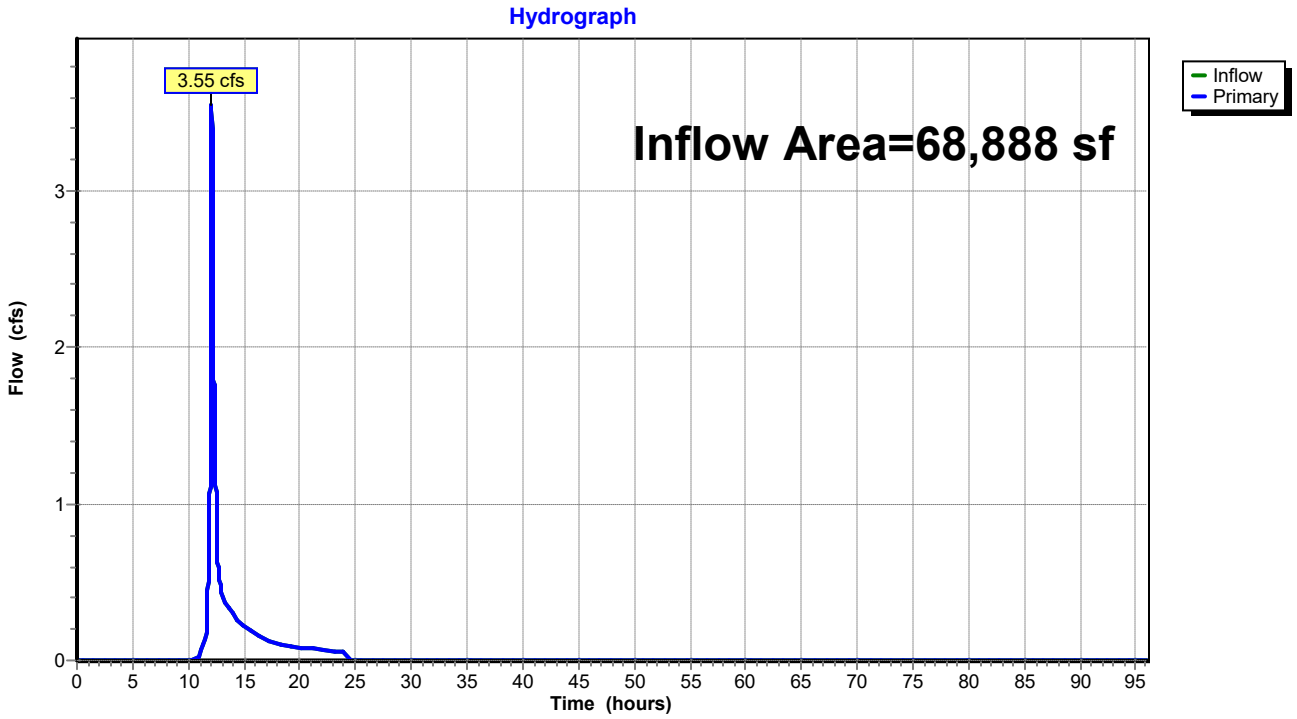


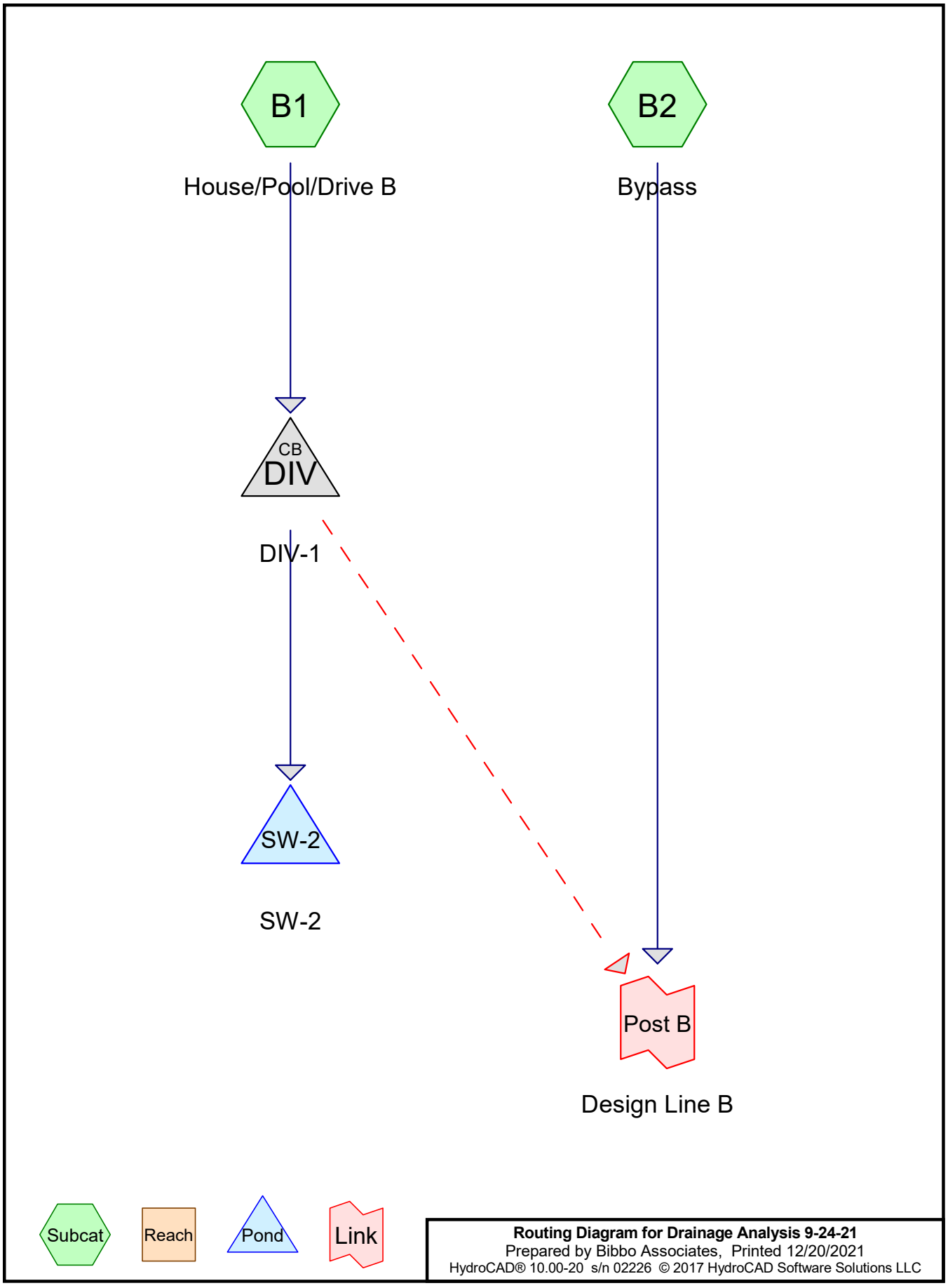
Summary for Link Pre B: Design Line B

Inflow Area = 68,888 sf, 4.94% Impervious, Inflow Depth = 2.01" for 25-year storm event
Inflow = 3.55 cfs @ 12.10 hrs, Volume= 11,513 cf
Primary = 3.55 cfs @ 12.10 hrs, Volume= 11,513 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link Pre B: Design Line B





Routing Diagram for Drainage Analysis 9-24-21
Prepared by Bibbo Associates, Printed 12/20/2021

Summary for Subcatchment B1: House/Pool/Drive B

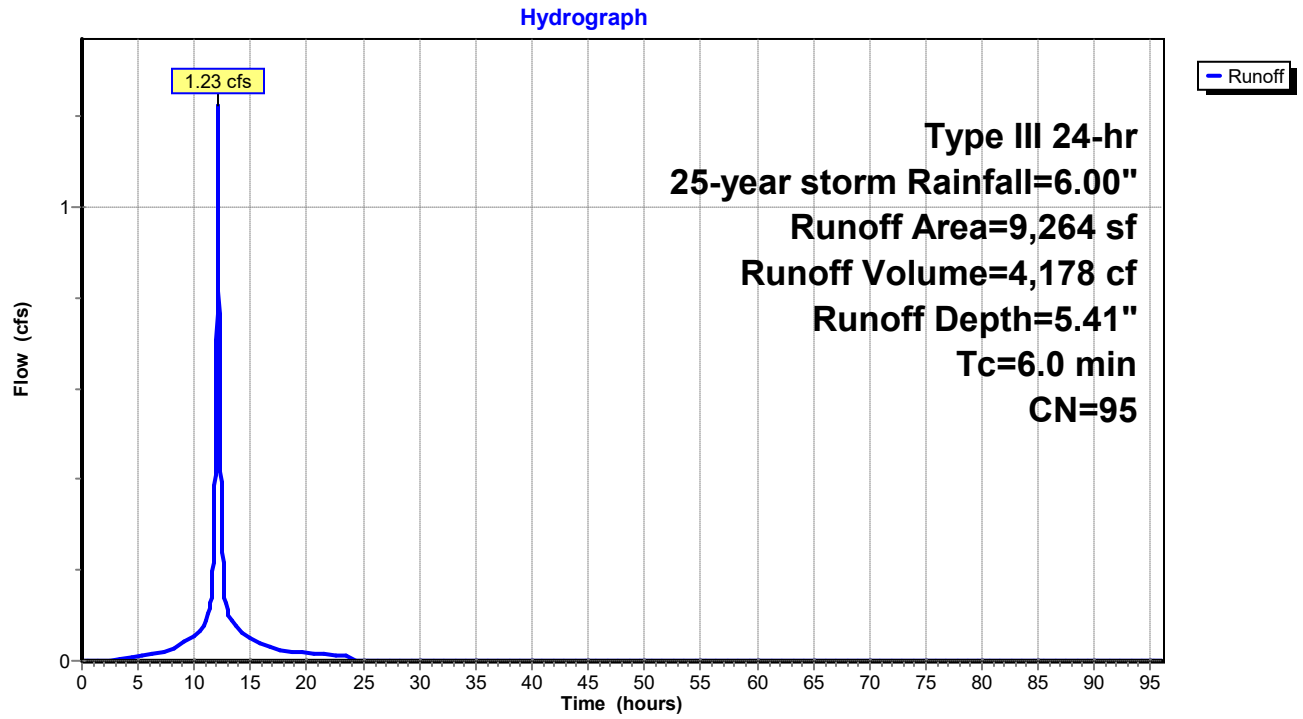
Runoff = 1.23 cfs @ 12.08 hrs, Volume= 4,178 cf, Depth= 5.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-year storm Rainfall=6.00"

	Area (sf)	CN	Description
*	4,282	98	House
*	1,900	98	Pool/Patio/Pool House
	700	61	>75% Grass cover, Good, HSG B
*	2,382	98	Driveway B
	9,264	95	Weighted Average
	700		7.56% Pervious Area
	8,564		92.44% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment B1: House/Pool/Drive B



Summary for Subcatchment B2: Bypass

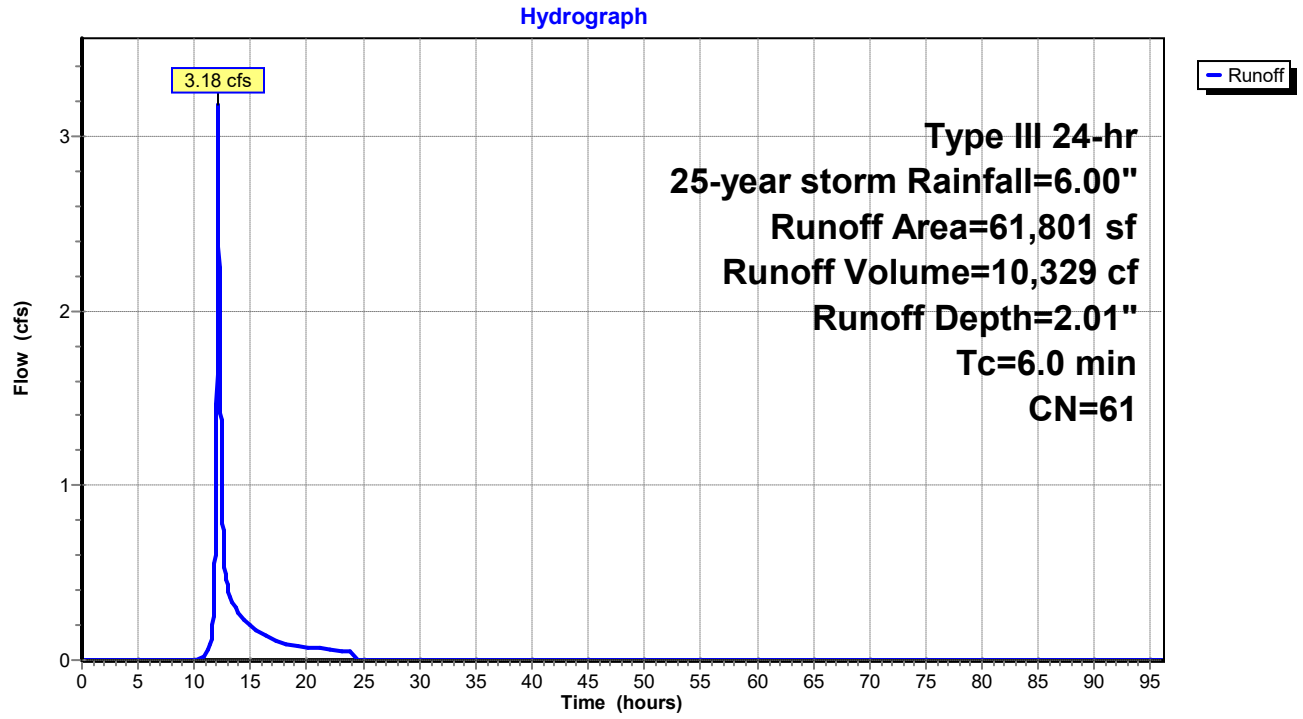
Runoff = 3.18 cfs @ 12.10 hrs, Volume= 10,329 cf, Depth= 2.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Type III 24-hr 25-year storm Rainfall=6.00"

	Area (sf)	CN	Description
*	3,400	98	Common Drive
	1,494	80	>75% Grass cover, Good, HSG D
	11,414	61	>75% Grass cover, Good, HSG B
	6,782	77	Woods, Good, HSG D
	38,711	55	Woods, Good, HSG B
	61,801	61	Weighted Average
	58,401		94.50% Pervious Area
	3,400		5.50% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry,**

Subcatchment B2: Bypass



Summary for Pond DIV: DIV-1

Inflow Area = 9,264 sf, 92.44% Impervious, Inflow Depth = 5.41" for 25-year storm event
Inflow = 1.23 cfs @ 12.08 hrs, Volume= 4,178 cf
Outflow = 1.23 cfs @ 12.08 hrs, Volume= 4,178 cf, Atten= 0%, Lag= 0.0 min
Primary = 1.02 cfs @ 12.08 hrs, Volume= 3,692 cf
Secondary = 0.36 cfs @ 12.27 hrs, Volume= 486 cf

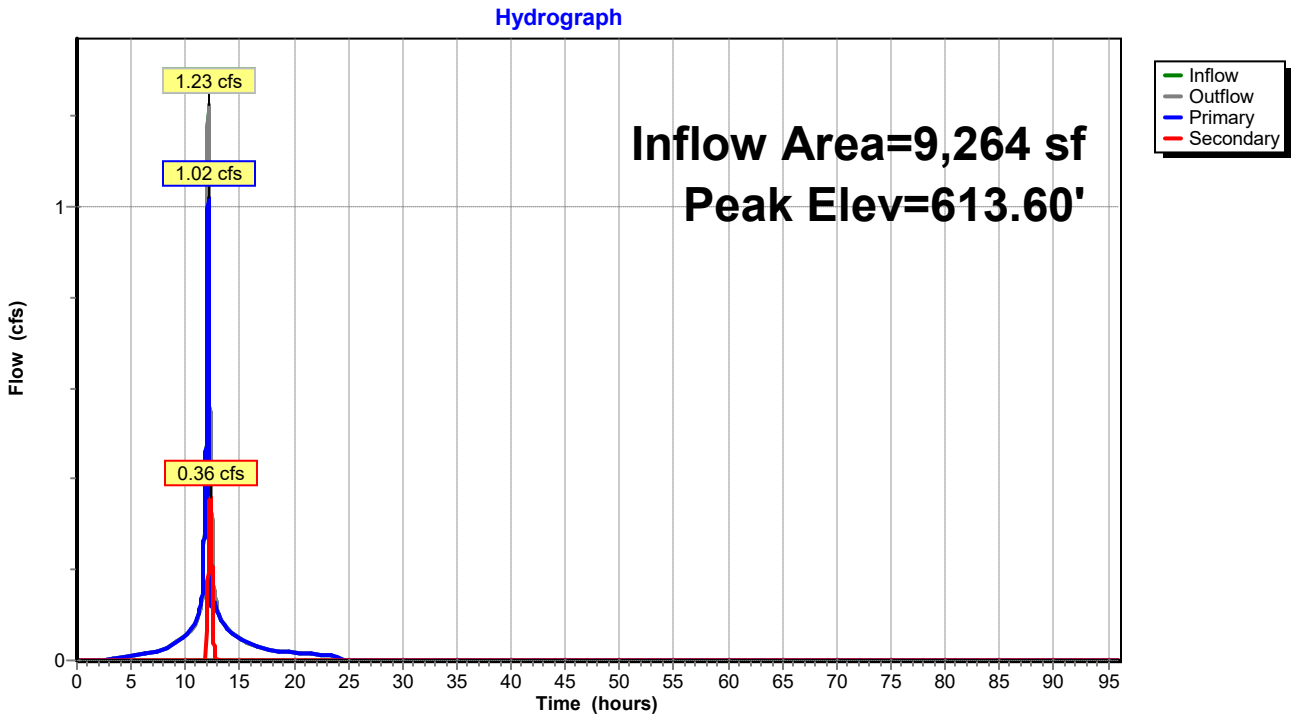
Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Peak Elev= 613.60' @ 12.27 hrs
Flood Elev= 374.75'

Device	Routing	Invert	Outlet Devices
#1	Primary	613.00'	**10.0" Round Primary** L= 35.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 613.00' / 612.21' S= 0.0226 '/' Cc= 0.900 n= 0.012, Flow Area= 0.55 sf
#2	Secondary	613.00'	**18.0" Round Secondary** L= 78.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 613.00' / 612.00' S= 0.0128 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf
#3	Device 2	613.50'	**4.0' long x 0.5' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 Coef. (English) 2.80 2.92 3.08 3.30 3.32

Primary OutFlow Max=1.00 cfs @ 12.08 hrs HW=613.57' TW=613.04' (Dynamic Tailwater)
└**1=Primary** (Outlet Controls 1.00 cfs @ 3.57 fps)

Secondary OutFlow Max=0.36 cfs @ 12.27 hrs HW=613.60' TW=0.00' (Dynamic Tailwater)
└**2=Secondary** (Passes 0.36 cfs of 1.75 cfs potential flow)
└**3=Broad-Crested Rectangular Weir** (Weir Controls 0.36 cfs @ 0.89 fps)

Pond DIV: DIV-1



Summary for Pond SW-2: SW-2

Inflow Area = 9,264 sf, 92.44% Impervious, Inflow Depth = 4.78" for 25-year storm event
Inflow = 1.02 cfs @ 12.08 hrs, Volume= 3,692 cf
Outflow = 0.15 cfs @ 11.63 hrs, Volume= 3,692 cf, Atten= 85%, Lag= 0.0 min
Discarded = 0.15 cfs @ 11.63 hrs, Volume= 3,692 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs
Peak Elev= 613.59' @ 12.28 hrs Surf.Area= 656 sf Storage= 857 cf

Plug-Flow detention time= 31.9 min calculated for 3,691 cf (100% of inflow)
Center-of-Mass det. time= 31.9 min (798.9 - 767.1)

Volume	Invert	Avail.Storage	Storage Description
#1A	611.71'	578 cf	**20.83'W x 31.50'L x 3.54'H Field A** 2,324 cf Overall - 879 cf Embedded = 1,445 cf x 40.0% Voids
#2A	612.21'	879 cf	**Cultec R-330XLHD** x 16 Inside #1 Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap Row Length Adjustment= +1.50' x 7.45 sf x 4 rows
		1,457 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	611.71'	**10.000 in/hr Exfiltration over Horizontal area** Phase-In= 0.10'

Discarded OutFlow Max=0.15 cfs @ 11.63 hrs HW=611.82' (Free Discharge)
↑**1=Exfiltration** (Exfiltration Controls 0.15 cfs)

Pond SW-2: SW-2 - Chamber Wizard Field A

Chamber Model = Cultec R-330XLHD (Cultec Recharger® 330XLHD)
Effective Size= 47.8"W x 30.0"H => 7.45 sf x 7.00'L = 52.2 cf
Overall Size= 52.0"W x 30.5"H x 8.50'L with 1.50' Overlap
Row Length Adjustment= +1.50' x 7.45 sf x 4 rows

52.0" Wide + 6.0" Spacing = 58.0" C-C Row Spacing

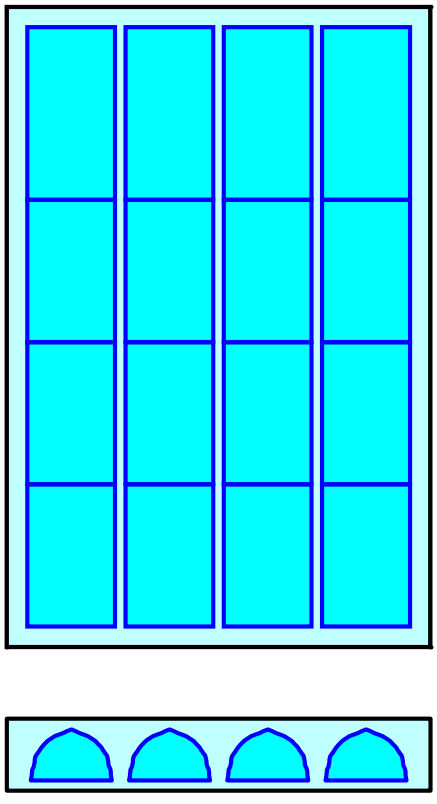
4 Chambers/Row x 7.00' Long +1.50' Row Adjustment = 29.50' Row Length +12.0" End Stone x 2 = 31.50' Base Length
4 Rows x 52.0" Wide + 6.0" Spacing x 3 + 12.0" Side Stone x 2 = 20.83' Base Width
6.0" Base + 30.5" Chamber Height + 6.0" Cover = 3.54' Field Height

16 Chambers x 52.2 cf +1.50' Row Adjustment x 7.45 sf x 4 Rows = 879.2 cf Chamber Storage

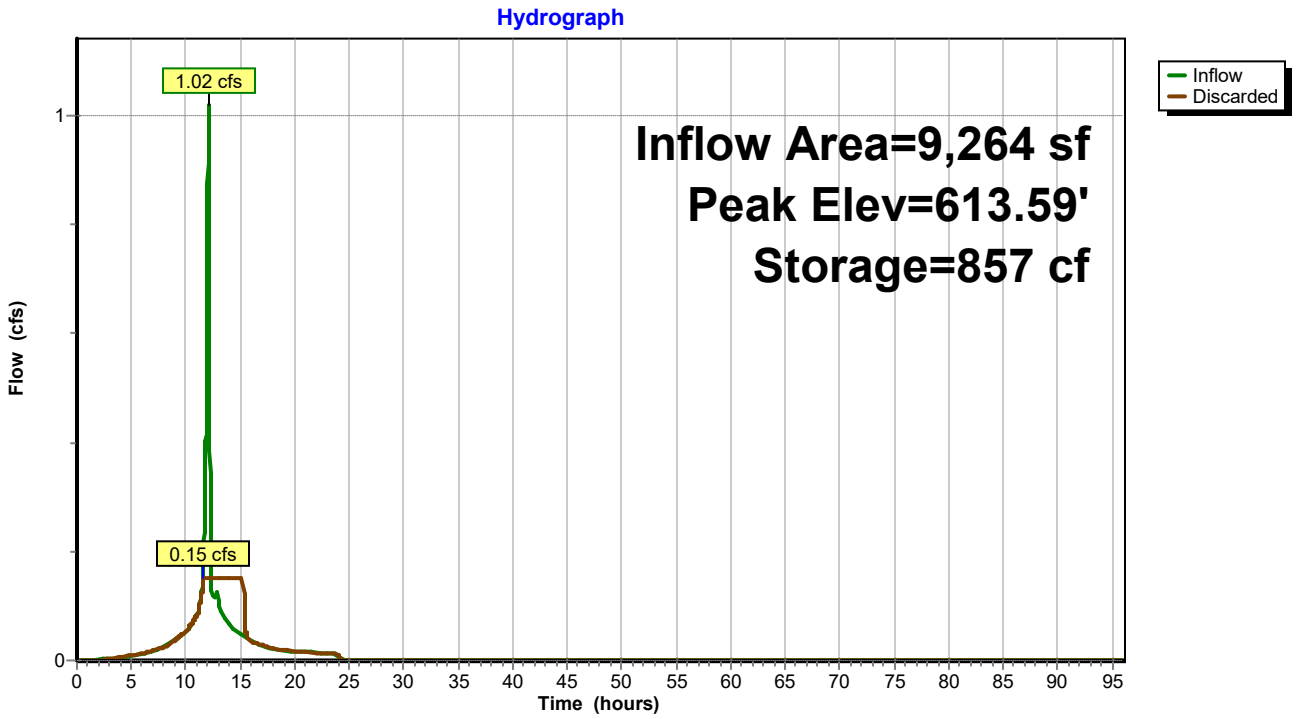
2,324.2 cf Field - 879.2 cf Chambers = 1,445.0 cf Stone x 40.0% Voids = 578.0 cf Stone Storage

Chamber Storage + Stone Storage = 1,457.2 cf = 0.033 af
Overall Storage Efficiency = 62.7%
Overall System Size = 31.50' x 20.83' x 3.54'

16 Chambers
86.1 cy Field
53.5 cy Stone



Pond SW-2: SW-2

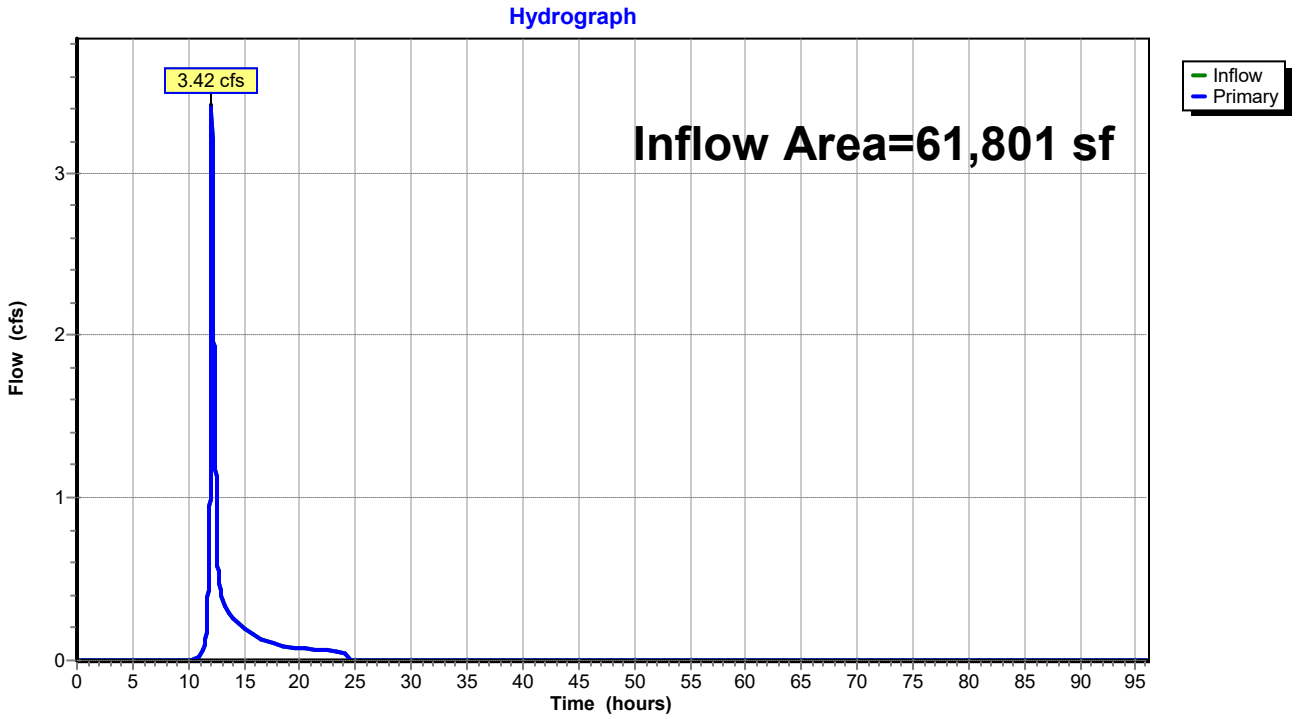

Hydrograph
Inflow
Discarded
1.02 cfs
0.15 cfs
Inflow Area=9,264 sf
Peak Elev=613.59'
Storage=857 cf
Flow (cfs)
Time (hours)
0
1
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95

Summary for Link Post B: Design Line B

Inflow Area = 61,801 sf, 5.50% Impervious, Inflow Depth = 2.10" for 25-year storm event
Inflow = 3.42 cfs @ 12.10 hrs, Volume= 10,815 cf
Primary = 3.42 cfs @ 12.10 hrs, Volume= 10,815 cf, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-96.00 hrs, dt= 0.01 hrs

Link Post B: Design Line B



Soil Map

Map Scale: 1:1,800 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 25 50 100 150

Feet: 0 50 100 200 300

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 Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

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 17, Sep 1, 2021

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.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CrC	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	B	5.0	44.2%
CsD	Chatfield-Charlton complex, 15 to 35 percent slopes, very rocky	B	4.8	42.1%
HrF	Hollis-Rock outcrop complex, 35 to 60 percent slopes	D	1.6	13.8%
Totals for Area of Interest			**11.3**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

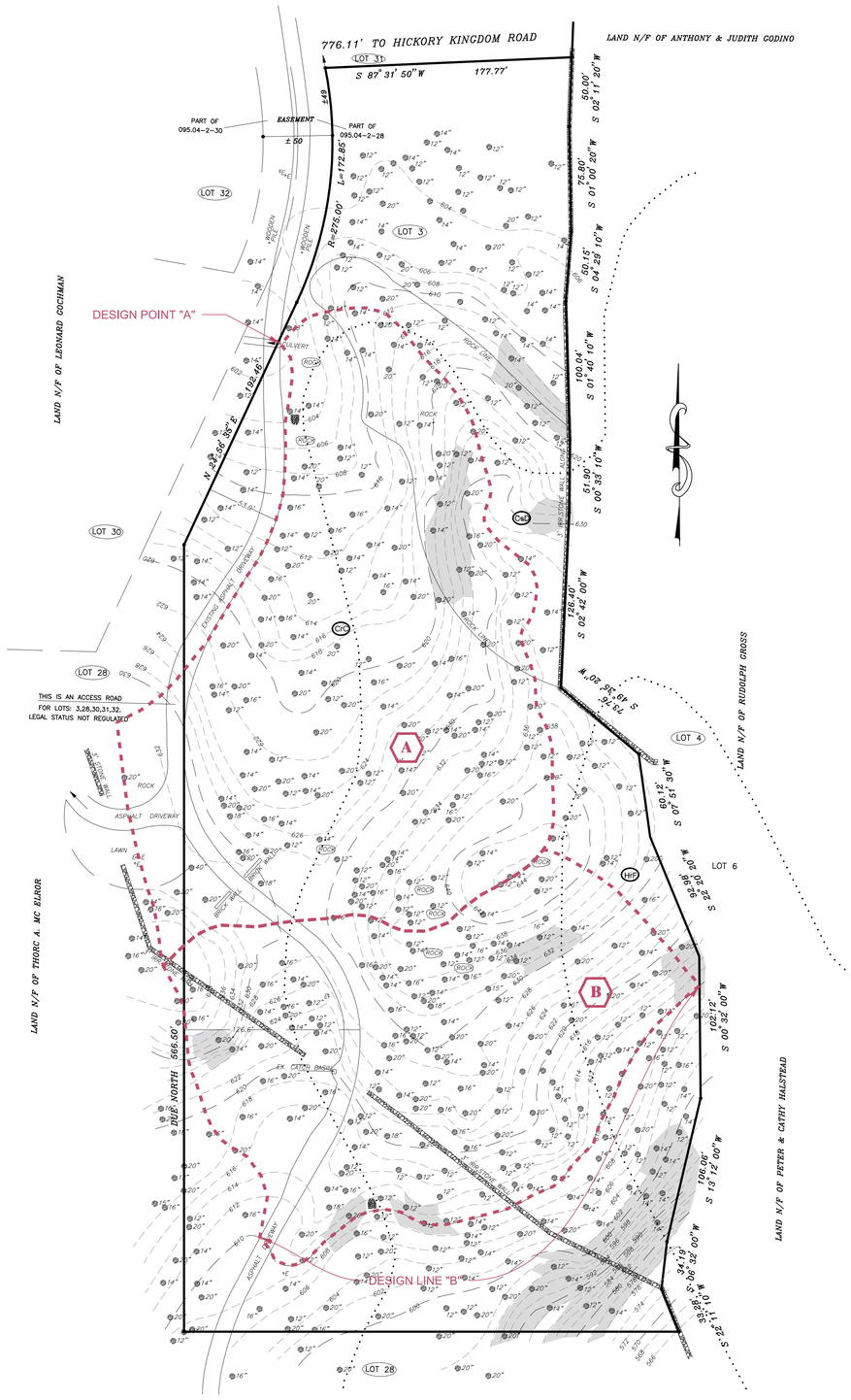
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Watershed Map



LEGEND

- EXISTING PROPERTY LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- 410 EXISTING 10' CONTOUR
- 14" EXISTING TREE
- WATERSHED BOUNDARY LINE
- A WATERSHED IDENTIFICATION
- SOIL BOUNDARY LINE
- CrC USGS SOIL CLASSIFICATION

PLAN

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

CONTACT INFO:

MATTHEW ABRAMO
530 W 30TH ST APT 23A
NEW YORK, NY 10001

OLD BIBBO PROJECT NO. 2715
OLD WCDH PERMIT NO. NOC2000-11

P/O LEONARD GOCHMAN SUBDIVISION, MAP# 21099, DATE 7/30/82, R.S. LOT NO: 2

SEC NO: 95.04 **BLOCK NO: 2** **LOT NO: 3**

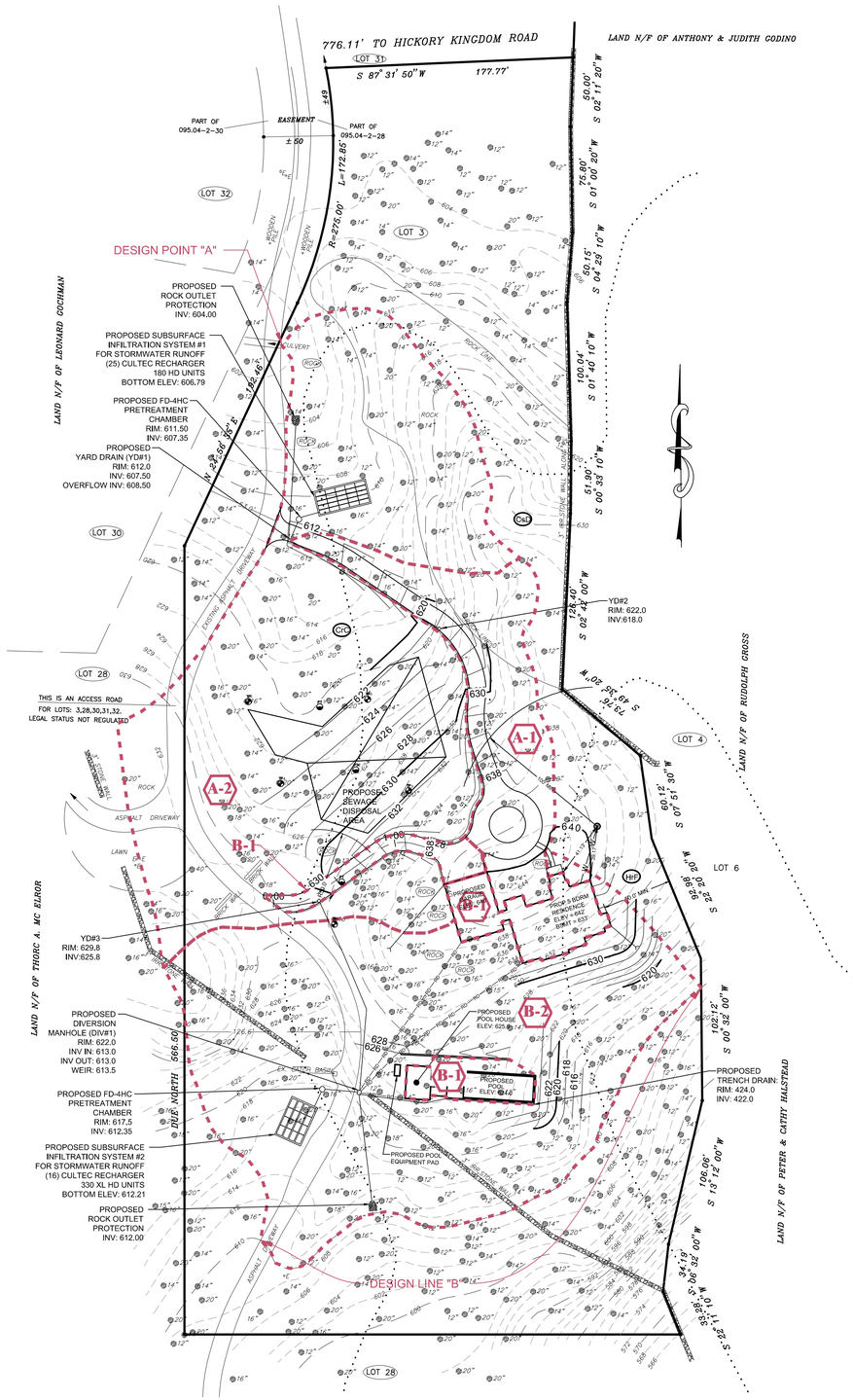
REVISIONS:					
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

PRE-DEVELOPMENT

ABRAMO - RESIDENCE
163 HICKORY KINGDOM ROAD
TOWN OF NORTH CASTLE, WESTCHESTER COUNTY, NY 10504

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	12-20-2021
SCALE:	1" = 40'
FILE:	LL-1
DSGN / CHK:	NG
DRN. BY:	NM/AW
SHT NO.	1 OF 2
DWG NO.	PRE



PLAN

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft.

LEGEND

- EXISTING PROPERTY LINE
- EXISTING STONE WALL
- EXISTING 2' CONTOUR
- 410 EXISTING 10' CONTOUR
- TP-10 SOIL TEST LOCATION
- 14" EXISTING TREE
- 330 PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- WATERSHED BOUNDARY LINE
- A WATERSHED IDENTIFICATION
- SOIL BOUNDARY LINE
- CrC USGS SOIL CLASSIFICATION
- PROPOSED ROOF AND FOOTING DRAINS

CONTACT INFO:

MATTHEW ABRAMO
530 W 30TH ST APT 23A
NEW YORK, NY 10001

OLD BIBBO PROJECT NO. 2715
OLD WCDH PERMIT NO. NOC2000-11

P/O LEONARD GOCHMAN SUBDIVISION, MAP# 21099, DATE 7/30/82, R.S. LOT NO: 2
SEC NO: 95.04 BLOCK NO: 2 LOT NO: 3

REVISIONS					
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION	BY/CK

POST DEVELOPMENT

ABRAMO - RESIDENCE
163 HICKORY KINGDOM ROAD
TOWN OF NORTH CASTLE, WESTCHESTER COUNTY, NY 10504

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	12-20-2021
SCALE:	1" = 40'
FILE:	LL-1
DSGN / CHK:	NG
DRN. BY:	NM/AW
SHT NO.	2 OF 2
DWG NO.	POST

P:\Projects\POCANTICO-PARTNERS-ABRAMO\DWG\ABRAMO BASE MAP - 12-20-21.dwg, 12/20/2021 4:01:52 PM, AWilkowsky, 1:1

NORTH / FRONT ELEVATION

IMPORTANT NOTE:

THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTIO WITH THE WORK, FOR THE ACTS OR OMMISIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALWAYS USE DIMENSIONS AS SHOWN. DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR TO REPORT ANY DISCREPENCIES IMMEDIATELY TO THE ARCHITECT.

PREPARED BY

WILLIAM BATEMAN, ARCHITECT, AIA

DISTINCTIVE RESIDENTIAL ARCHITECTURE

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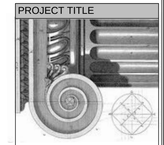
518 788-7581

NEW YORK SOUTH CAROLINA

PROJECT TITLE



THE ABRAMO RESIDENCE

163 HICKORY KINGDOM ROAD

NORTH CASTLE, NY

RELEASE

- ■ FOR REVIEW
- □ FOR PERMITTING
- □ FOR CONSTRUCTION
- □ AS BUILT

DATE PRINTED

9/13/21

SHEET NO.

A-04

WEST / RIGHT ELEVATION

IMPORTANT NOTE:

THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, DEVIATIONS, TECHIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTIO WITH THE WORK, FOR THE ACTS OR OMMISIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALWAYS USE DIMENSIONS AS SHOWN. DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR TO REPORT ANY DISCREPENCIES IMMEDIATELY TO THE ARCHITECT.

PREPARED BY

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NEW YORK 518 788-7581 SOUTH CAROLINA

PROJECT TITLE

THE ABRAMO RESIDENCE

163 HICKORY KINGDOM ROAD
NORTH CASTLE, NY

RELEASE

- ■ FOR REVIEW
- □ FOR PERMITTING
- □ FOR CONSTRUCTION
- □ AS BUILT

DATE PRINTED

9/13/21

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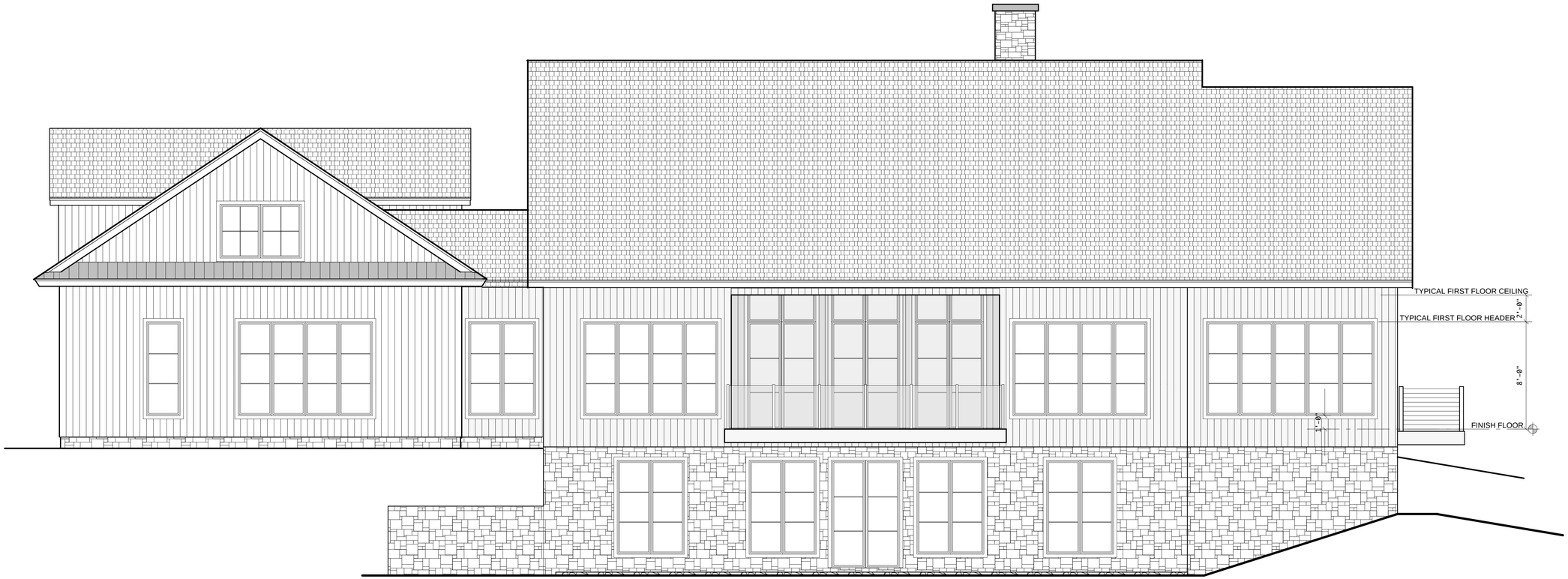
A-05



SOUTH / REAR ELEVATION

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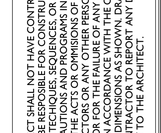

THE ABRAMO RESIDENCE
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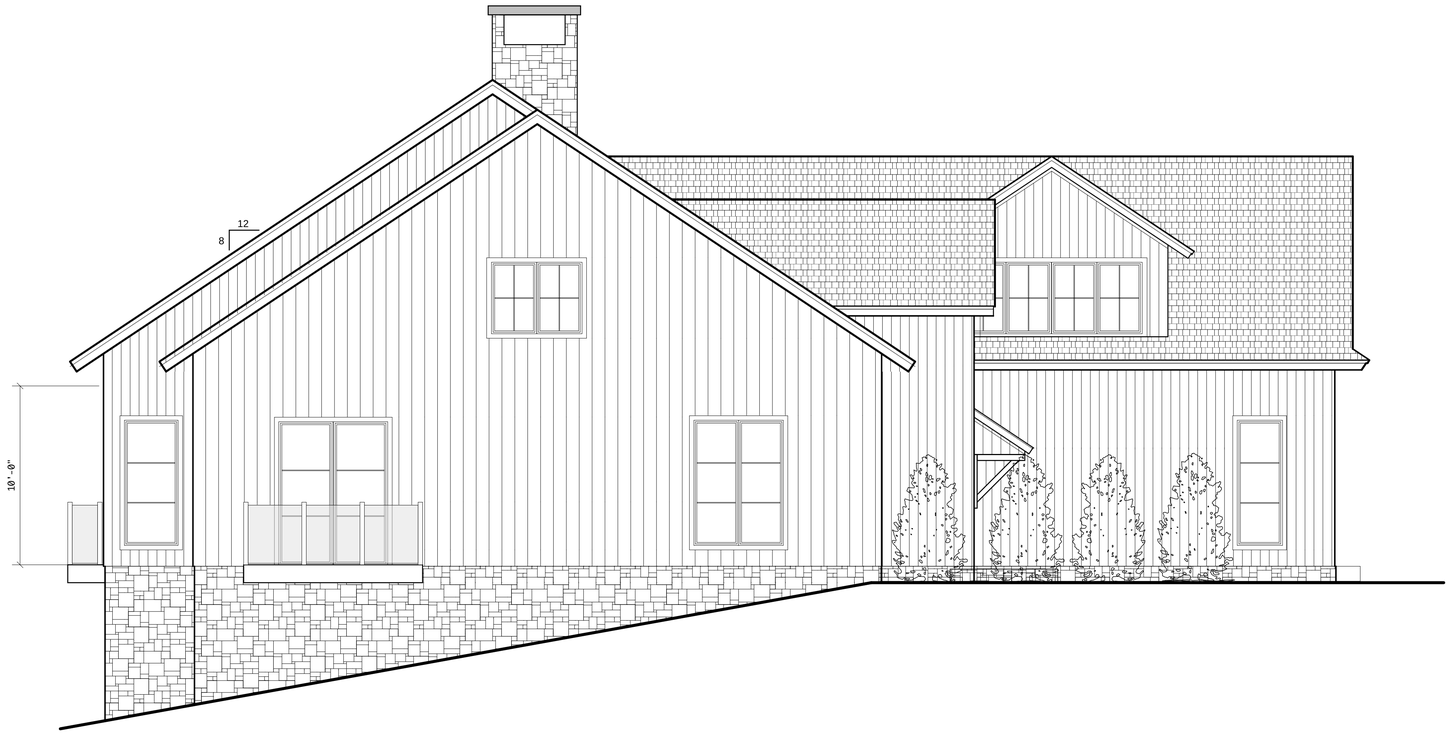
A-06



EAST / LEFT SIDE ELEVATION

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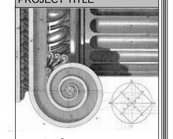

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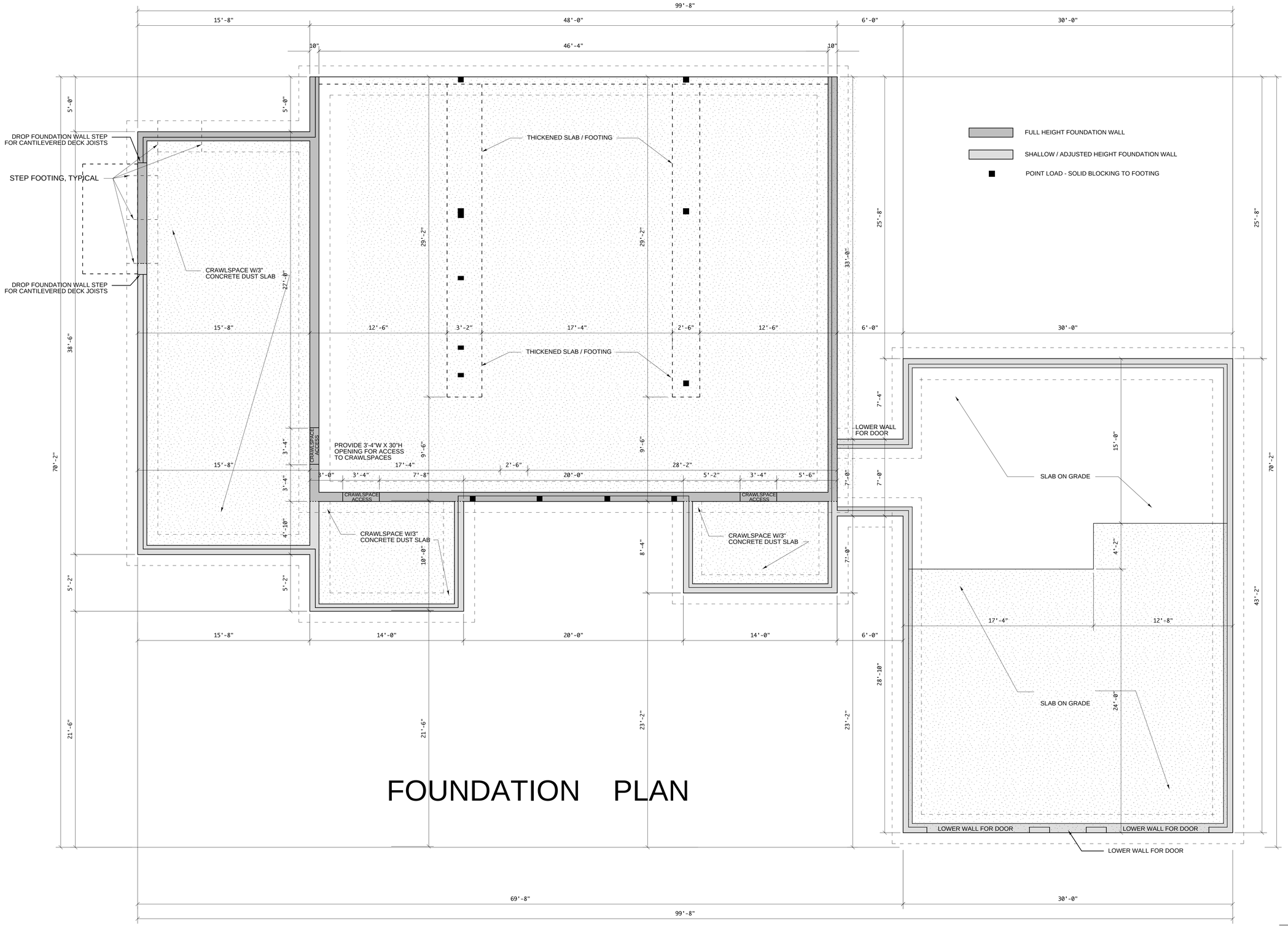

FOUNDATION PLAN

PROJECT NORTH

IMPORTANT NOTE:

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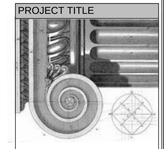

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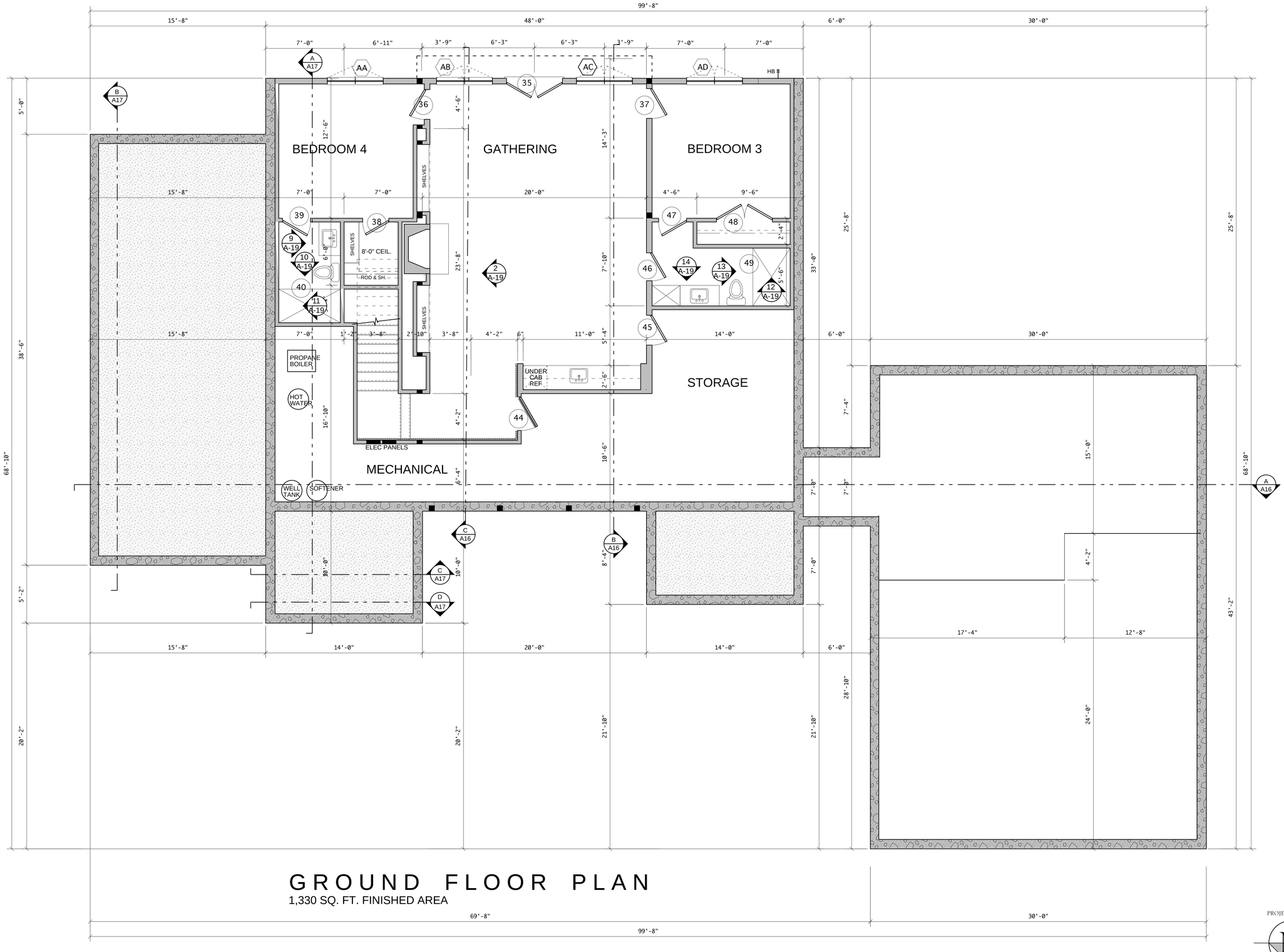

GROUND FLOOR PLAN

1,330 SQ. FT. FINISHED AREA

PROJECT NORTH

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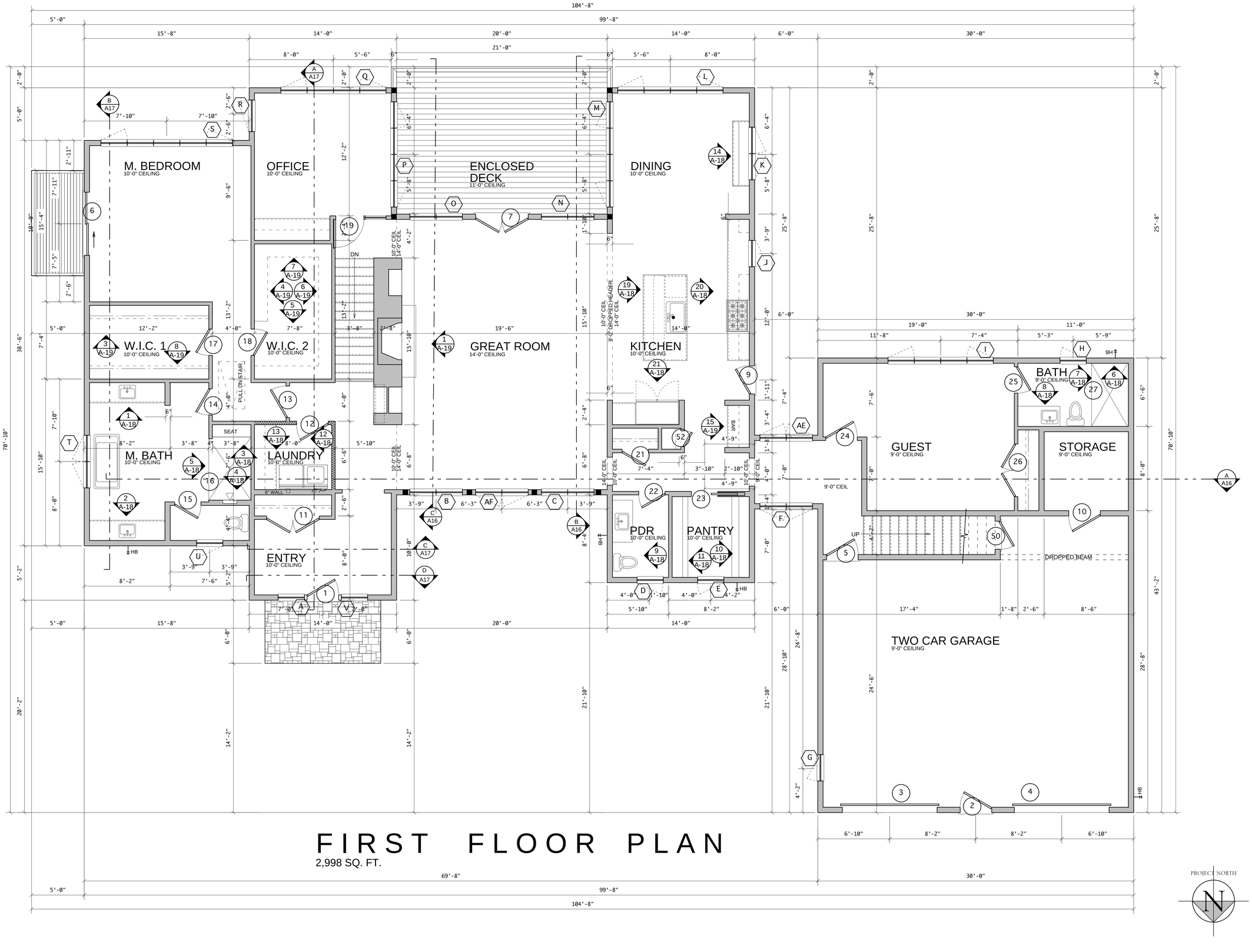

FIRST FLOOR PLAN

2,998 SQ. FT.

PROJECT NORTH

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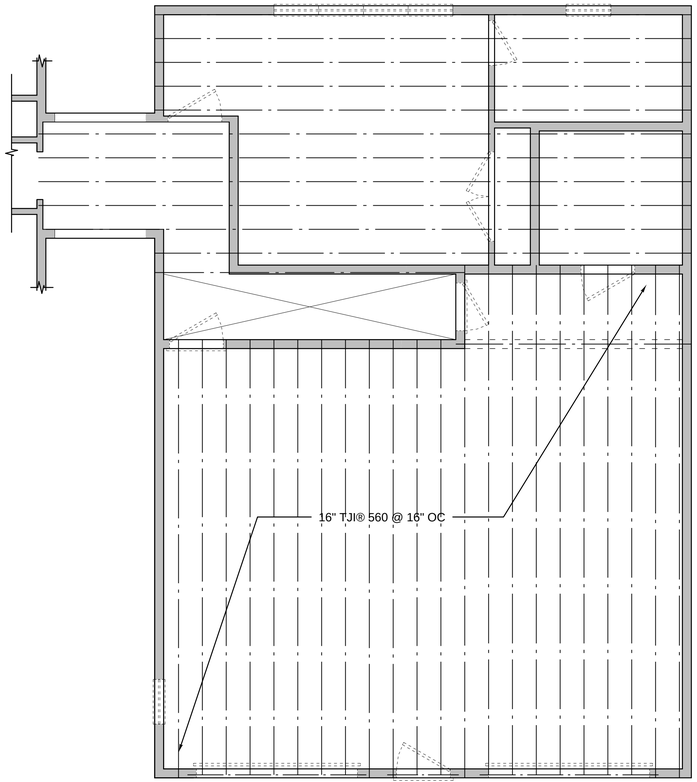
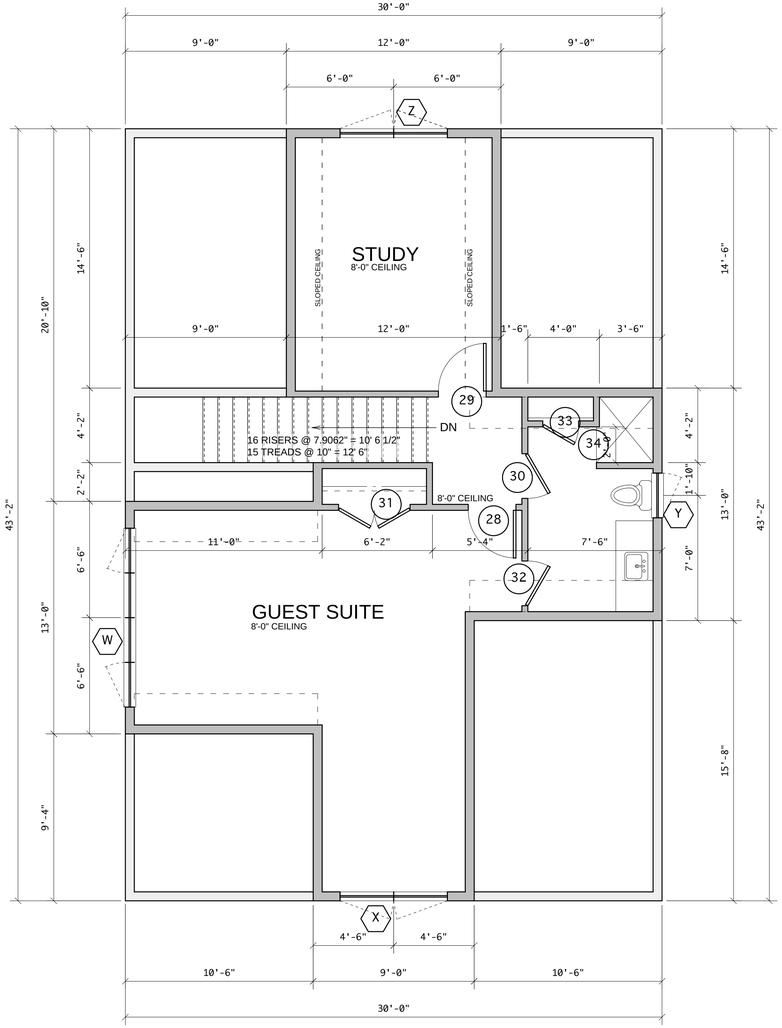


GUEST SUITE OVER GARAGE FRAMING PLAN



GUEST SUITE OVER GARAGE
596 SQ. FT.

PROJECT NORTH

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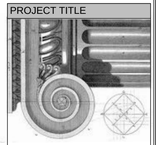

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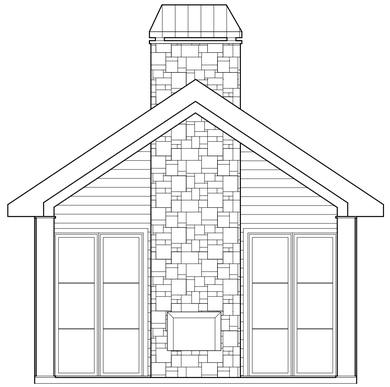
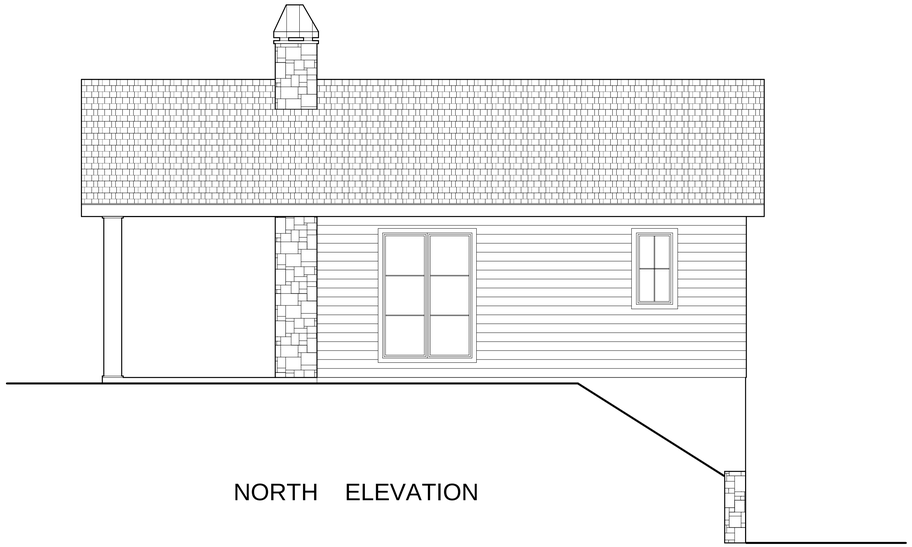
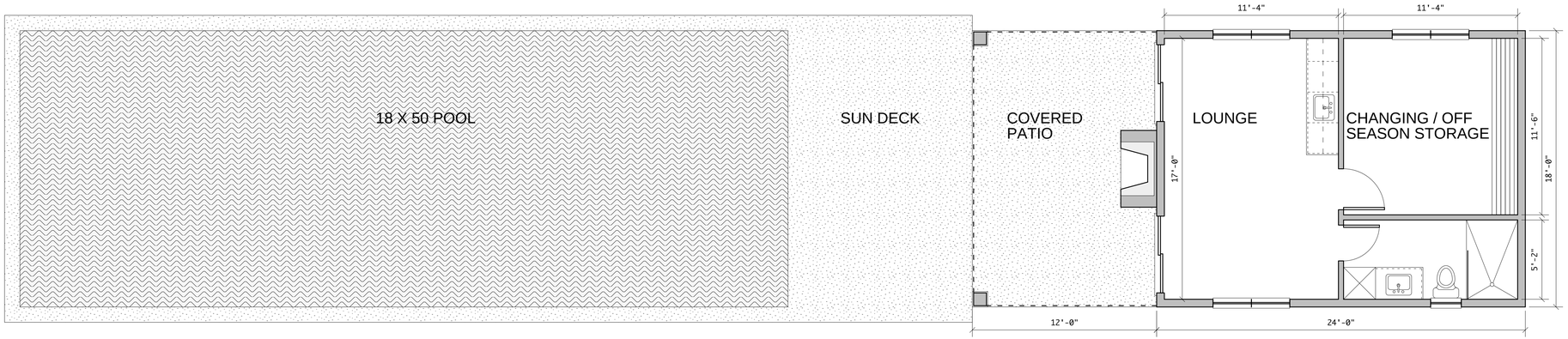


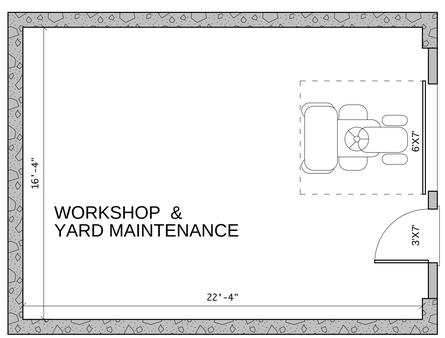
EAST ELEVATION



NORTH ELEVATION



POOL HOUSE PLAN



WORKSHOP PLAN

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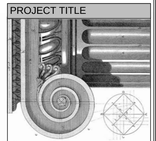

THE ABRAMO RESIDENCE

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Fri, May 7, 2021

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