



June 27, 2022

Via Electronic Mail (planning@northcastleny.com)

Hon. Christopher Carthy and Members of the
Planning Board of the Town of North Castle
15 Bedford Road
Armonk, New York 10504

*Re: Application of Dino and Michelle DeLaurentiis for Site Plan Approval for the
Construction of a Single-Family Residence and a Tree Removal Permit
To Permit Tree Removal in Connection with the Development of the Residence
Property: 21 Nethermont Ave. North Castle Tax Map Section 122.16, Block 4, Lot 41*

Dear Chairman Carthy and Members of the Board:

We represent Dino and Michelle DeLaurentiis (the “Applicants”), who are seeking Site Plan approval to permit them to construct a single-family residence on the unimproved property they own at 21 Nethermont Avenue in the Town’s R-5 zoning district (the “Property”). Because the construction of the residence on the Property will require the removal of 20 Town-regulated trees, the Applicants are also seeking a Tree Removal Permit from your Board. *See* Town of North Castle Code §308-13A,D,F.

Prior Review

This application was previously reviewed by your Board at your January 25, 2021, May 10, 2021, May 24, 2021, November 8, 2021 and May 23, 2022 meetings.

The architecture of the proposed home was approved by the Town’s Architectural Review Board on March 3, 2021.

A variance from the requirements of North Castle Code §355-59[D], permitting reduced stopping sight distances from the proposed driveway was granted by the Town’s Zoning Board of Appeals on April 7, 2022.

The May 23rd Meeting

During your Board’s May 23, 2022 review of this application, there was a lengthy discussion about the configuration of the north (side) and west (rear) retaining walls, and the rip-rap slope in the western portion of the Property. Your Board asked the Applicants to review the configuration of these walls and the rip-rap slope with the primary goal of lessening the visual impact of the rip-rap slope, and improving the site grading to, among other things, limit the extent of grading in the rear of the Property near Town-

Hon. Christopher Carthy, Chairman
and Members of the Planning Board
of the Town of North Castle
June 27, 2022
Page 2

regulated trees to remain. Following your Board's May 23rd meeting, the Applicants and project engineer consulted with John Kellard, P.E., Town Engineer regarding these matters. Following that discussion, the Applicants had the site plan and landscaping plan revised to eliminate the rip-rap slope and replace it with a vegetated slope, improving the aesthetic of the rear yard and limiting the grading in the area of the Town-regulated trees to remain.

This Submission

Submitted herewith in support of the continued review of this site plan and tree removal permit application are the following:

1. *Response to Engineering and Planning Comments*, prepared by Gabriel E. Senor, P.C., dated June 21, 2022;
2. *Site Plan/Zoning Analysis/Grading Plan (SW-1)*, prepared by Gabriel E. Senor, P.C., dated October 3, 2021 and last revised June 23, 2022;
3. *Utility Plan (SW-2)*, prepared by Gabriel E. Senor, P.C., dated June 23, 2022;
4. *Cross Sections (SW-3)*, prepared by Gabriel E. Senor, P.C., dated June 23, 2022;
5. *Stormwater Pollution Prevention Plan & Erosion Control (SW-4)*, prepared by Gabriel E. Senor, P.C., dated September 10, 2020 and last revised June 23, 2022;
6. *Existing Conditions, Topographical Survey, and Tree Removals (TR-1)*, prepared by Gabriel E. Senor, P.C., dated October 3, 2021 and last revised June 27, 2022;
7. *Existing Conditions, Topographical Survey, and Steep Slope Analysis (TS-1)*, prepared by Gabriel E. Senor, P.C., dated September 10, 2020 and last revised June 15, 2022;
8. *Fill Delivery and Materials Staging (FS-1)*, prepared by Gabriel E. Senor, P.C., dated December 11, 2020 and last revised June 15, 2022;
9. *Sight Distance Analysis (SD-1)*, prepared by Gabriel E. Senor, P.C., dated October 22, 2021;
10. *Planting Plan*, prepared by Walter G. Nestler, P.C., dated May 4, 2022, revised June 10, 2022;
11. *Exterior Elevations (Sheets A-400.01 and A-401.01)*, prepared by Jeffrey Taylor Architect August 2, 2020, last revised December 3, 2021;

Hon. Christopher Carthy, Chairman
and Members of the Planning Board
of the Town of North Castle
June 27, 2022
Page 3

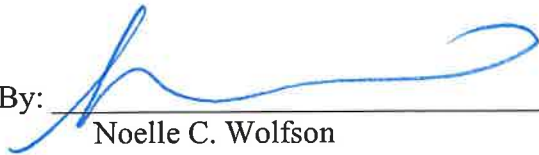
12. Drainage Calculations, prepared by Eliot Senor, P.E. & L.S., dated May 3, 2022 and last revised June 16, 2022.

We look forward to presenting this application at a public hearing before your Board on July 11, 2022 at which time we would ask that your Board adopt a resolution granting site plan approval and a tree removal permit for this project.

If you have any questions or if you need any additional information, please feel free to contact me.

Respectfully submitted,

Hocherman Tortorella & Wekstein, LLP

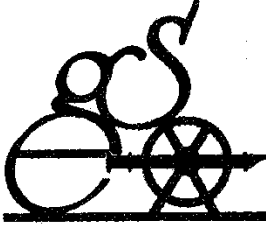
By: 

Noelle C. Wolfson

NCW

Enclosures

cc: Adam Kaufman, AICP
John Kellard, P.E.
Mr. Dino DeLaurentiis
Mrs. Michelle DeLaurentiis
Gabriel E. Senor, P.C.
Carlito Holt, P.E.
Walter G. Nestler, ASLA



Gabriel E. Senior, P.C.

Engineers Planners Surveyors

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MEMORANDUM

TO: Planning Board
Town of North Castle

FROM: Eliot Senior P.E. L.S.

SUBJECT: 21 Nethermont Ave

DATE: June 21, 2022

For ease of reference, we have provided our comments in **bold red** type. Comments addressed are highlighted in yellow

- 1 As previously noted, the applicant has provided cut and fill volume estimates for the development indicating that the proposed plan requires the import of approximately 900 cubic yards of fill. Given the condition of the existing roadways in the neighborhood (narrow, winding, steep), this office is concerned with the amount of truck traffic required for delivery and potential damage to existing roads. We recommend that the application is referred to the Highway Department for review and comment.

The Fill Delivery and Material Staging Plan has been revised to indicate that 275 cubic yards of fill is now required. It is not clear how the reduction is realized given that there is no significant change to the plan. It is also not clear whether this calculation includes the excavation and fill required for the building foundation. The applicant should provide a cut/fill map for review and clarification and continue to seek comment from the Highway Department.

Fill delivery and Material Staging plan has been updated with a calculation study of cut and fill. The net fill will be approximately 580 cubic yards. It is anticipated that it will take approximately 4 days for the delivery of such fill. It will be restricted to delivery after 9 am and to approximately 8 truckloads a day. Approximately 10 cubic yards will be removed for the foundation excavation. Bear in mind a house of this size on a level lot would produce approximately 380 cubic yards of fill to be removed. Thus, the generated transportation of fill has not been significantly increased (approximately 8 extra truckloads in comparison) from normal construction procedures.

2. As previously requested, notes shall be added to the "Fill Delivery and Material Staging Plan" specifying compaction requirements and the fill material specifications.

Compaction requirements have been added as requested. However, the plan shall be revised to include the requested fill material specifications and requirements in accordance with Chapter 161: Filling and Grading related to fill delivery manifests and certification that the material complies with 6 NYCRR, Part 360.

Fill delivery and Material Staging plan has been revised with above notation.

3. As previously noted, the plan proposes tiered six (6) foot high retaining walls in the rear of the property, in close proximity to the property line. The Board should review the retaining wall layout and consider whether they are aesthetically pleasing and compatible with the surrounding residential character. Additional screening or other mitigation may be recommended. The Board may wish to consider reducing the height of the tiered walls or adding a third tier (three — 4-foot walls as opposed to two — 6 foot walls). The applicant should provide cross sections at appropriate locations through the site, front to back and left to right, for the Board's understanding of how the proposed grading and retaining walls will relate to adjacent properties.

While minor modifications to the retaining wall layout have been proposed, it is our opinion that additional modifications can be made to further reduce the retaining walls along the property lines as well as to improve the proposed grading adjacent to the residence. As currently proposed, the finished grade immediately falls from the foundation providing no level side yard and poor access to the proposed stairs at the northwest corner. The applicant may wish to consider shifting the wall along the side yard toward the home or adding a short second tier to flatten the proposed grades around the house. It also seems that the wall at the rear property line could be shifted further into the site to minimize visual impact to the adjoining property. The requested cross sections have not yet been provided.

At the May 23rd meeting of your Board on this Application the applicant was advised to consult with Town Engineer John Kellard about alternatives to the wall design proposed on the Site Plan/Zoning Analysis/Grading Plan (SW-1), prepared by Gabriel E. Senor PC, dated October 3, 2021, last revised May 5, 2022. The applicant has consulted with Mr. Kellard about that aspect of the plan and based on that consultation, we have replaced the originally proposed rip-rap slope with a 1:1 vegetated slope to preserve 6 Town Regulated existing trees and one tree with a DBH of 6 inches in the rear of the property.

See Site Plan/Zoning Analysis/Grading (SW-1), prepared by Gabriel E. Senor PC, dated October 3, 2021 last revised June 23, 2022 submitted herewith.

4. As previously requested, for clarity and ease of review, the applicant shall provide a separate Site Plan and Grading and Utility Plan in addition to the Existing Conditions Plan. Due to the drawing scale and abundance of data included on a single sheet, it is difficult to decipher the various improvements from one another. The applicant should prepare a site plan that includes all proposed improvements, including, but not limited to, proposed residence, walkways, patios, driveway including dimensions, a zoning compliance table, the minimum building envelope illustrating building setbacks and dimensions, retaining walls and existing neighboring buildings and driveways. Proposed grading, utilities, erosion controls, etc., should be illustrated on separate plan sheets.

A Bulk Zoning Table has been provided; however, the references to Net Lot Area should be removed as they do not apply to single lots. The minimum required building envelope should be illustrated on the plan. The applicant has indicated that the information requested above will be submitted at a later date.

Plans have been separated as follows: Site Plan/Zoning Analysis/Grading, Utility Plan and Cross Sections for clarity. Building envelope is shown on plan SW-1 and Net Lot Area has been removed.

5. As previously requested, the net lot area calculations shall be removed from Sheet TS-1 "Existing Conditions, Topographic Survey & Steep Slope Analysis", since that is only applicable to subdivisions.

The above requested revision has not been addressed.

Net lot area calculations have been removed from this plan. (Sheet TS-1)

6. The applicant shall demonstrate zoning compliance with respect to building height. As defined by Town Code, the average grade used to determine building height in cases where the finished ground level slopes away from the exterior walls, as this does, the average grade shall be the lowest point within six (6) feet

from the perimeter of the building. The applicant has provided average grade calculations; however, it appears that the elevations were taken immediately adjacent to the building. The calculation and supporting data should be revised accordingly and verified by the Building Inspector.

The above requested revision has not been addressed.

It appears the building height and average grade calculations are correct. The Building Inspector should confirm. Please correct the proposed finished grades at the corners of the garage shown on the average grade exhibit. The applicant should also revise the proposed grade line on the Architect's elevations to comply with the grades used within their calculations.

Building grade calculation and diagram has been revised and are consistent with architect's plan. (Sheet SW-1)

7. The applicant shall provide a maximum wall height calculation to demonstrate compliance with Section 355-26 D, which limits height to 34 feet for the R-5, One-Family Residence Zoning District. Based on the building elevations provided, and the need to verify the average grade as noted above, the maximum wall height calculation should be provided to the Building Inspector for verification that an area variance would not be required.

Comment addressed.

8. As previously requested, sight distance profiles have been provided, however, they shall be corrected to illustrate adequate sight distance for a minimum of 200 feet in each direction. It is difficult to verify compliance based on the imagery provided. We would suggest importing the GIS topography and planimetric data to generate the profile as opposed to working from an image. The sight profile shall establish the driver's eye set 3.5 feet above grade, 14 feet back from the edge of the road with a line of sight to an object in the road 2 feet above grade. The elevations shall use the same datum as the submitted plans and correspond to the grades in the profiles.

The sight analysis plans for either the original or alternative driveway access do not illustrate all information necessary to properly evaluate the alternatives. The topography used for the analysis does

not correspond to the proposed grading plan. It seems that rather than convert the Westchester County GIS data to the plan topography, the opposite was done. This should be corrected for consistency and coordination with the proposed plan. Neither alternative illustrates the dense vegetation that exists along the northern property line, much of which is on the adjoining property and not und

er the applicant's control. The alternative driveway plan notes that the sight lines are obscured to the north due to a minor conflict with the proposed driveway turnaround. It appears that this could be rectified as part of the proposed grading plan. Finally, both alternatives will require sight easements across the front yards of both neighboring properties. The applicant should update the Board regarding any conversations they may have had with the property owners, as well as any communication with the Town Highway Department regarding any required clearing in the Town right-of-way. If the minimum required sight distance cannot be obtained, the plan should illustrate the minimum that can be provided as an area variance would be required from the Zoning Board of Appeals.

A Zoning Variance was obtained for the sight distance.

9. This office is concerned with the apparent lack of adequate sight lines from the driveway as proposed. The topography and alignment of the existing road and the dense vegetation on adjacent properties will appear to hinder safe lines of sight in either direction. It appears that the plan will require significant removal of existing vegetation to provide the necessary sight distance, much of which is on adjacent properties or within the right-of-way and will require agreement by the neighbors and sight line easements. As previously recommend, the applicant should prepare an alternate plan for the Planning Board's consideration illustrating the driveway access from the south side of the property toward the crest of the hill on Nethermont Avenue. We would recommend evaluating a driveway access with the grades descending from the road to lower the elevation of the site slightly, as well as the resulting elevation of residence to reduce the required fill and height of retaining walls.

This has not been addressed. See Comment No. 9 above. In addition, we note that the floor elevations for both alternatives in nearly the same. The applicant should consider revised grading schemes to raise the garage and first floor elevations of the alternative plan. Doing so would improve sight lines and reduce the grade of the drive.

Comment addressed.

10. As previously noted, a Landscaping Plan has been referenced but not submitted. The applicant shall submit a Landscape Plan and Restoration Plan, in accordance with Section 308.15.A(11) of the Town Code. The plan shall include a planting schedule that includes common name, scientific name, label symbol, size and quantity of proposed plants. The requested Landscape Plan shall be provided and coordinated with the final plan layout.

A Landscape Plan has been provided

11. As previously requested, the Tree Removal and Protection Plan and Summary Table shall be revised to include only trees on the subject property.

The plan has been updated to indicate that the entire site will be cleared of all existing trees. The Planning Board should discuss whether this is appropriate for the development.

The application shows seven (7) trees within the rear yard designated to remain. The applicant should show all trees on the grading plan. Fill and/or excavation within the rear yard appears to

extend into the root system of those trees to remain. Perhaps the applicant can re-study the proposed grading within this area with the introduction of a stepped wall leaving all existing grades below the wall intact.

Also, two (2) trees (12" and 14" Maples) within the northwest corner of the site could be saved if the walls were reconfigured or eliminated.

The small wall within the southwest corner of the house should be adjusted in height to permit the proposed grading to meet existing grades on-site.

“Existing Conditions, Topographical Survey, Tree Removals” plan has been revised to show current removals. Seven (7) trees are to remain. Grading has been changed to a 1:1 vegetated slope to protect root system. Retaining wall in southwest corner has been revised.

12. As previously requested, the driveway platform width should be increased to a minimum of 25 feet for adequate maneuverability out of the garage. The requested platform has been provided on the original plan but not dimensioned on the alternative plan for verification. Please clarify.

Comment addressed.

13. As previously requested, the invert elevations of the existing sanitary manholes in Nethermont Avenue shall be provided to verify the invert of the main line connection. The requested information has been provided. We note that the cover depth over the low-pressure sewer ejector connection is minimal and will require adjustment as the plan develops.

The sewer force main has been shown as a direct connection into the gravity sewer within Nethermont Avenue. I believe the Town Water and Sewer Department will require the force main to discharge into a new manhole on the applicant's property and flow by gravity to the main sewer from the manhole. Please meet with the Water and Sewer Department to clarify the connection details. Also, the headers on the utility profile for water and the sewer main appear to be interchanged. Please correct profile.

At the request of the Water and Sewer Department the 2” force main is to be connected to a 6” gravity connection at the property line. The 6” gravity wye connection will be connected to the sewer main with a Genco saddle connection. Connection detail shown and “headers” have been revised on Utility Profile. See SW-4

14. As previously requested, illustrate the connection between the storm system in the driveway and the existing storm system in Nethermont Avenue. Provide invert elevations as appropriate.

It appears that the requested rim manhole on the and invert elevations have been provided. We note, however, that the plan proposes to connect the discharge to the mitigation system directly to the pipe, as opposed to a manhole structure. The applicant may need to install a doghouse existing storm line. The details of this construction can be reviewed with the Highway Department as the plan develops. We will defer detailed review of the Stormwater Report until an alternative has been selected for development. We note that the stormwater calculations provided on the plan sheets are illegible and should be removed. In addition, the hydrologic model proposes a single design point. Under existing conditions, the design point is at the base of the hill at the rear of the property where

the entire site sheet flows toward. Under proposed conditions, however, there are two (2) design points; one at the front of the site where the collected runoff from the house and drive will discharge to the Town storm system, and a second at the base of the hill where the remainder of the site currently discharges. The hydrologic model and stormwater analysis shall be updated accordingly.

The connection to the storm drain is now made with a doghouse manhole. Drainage report shows design discharges. Location and invert of connection shown on SW-2. Details for doghouse manhole connection are shown on SW-4.

As previously noted, stormwater calculations have been submitted for mitigation of the 100-year design storm. It is noted, however, that the Hydrologic Soil Group (HSG) used for existing conditions differs from proposed conditions. Because the HSG is based on the underlying soils, the same HSG should be used for both existing and proposed conditions. The calculations shall be revised as necessary.

See Comment #14 above.

The plan shows a 3" orifice with a weir above. The summary of pond pipe indicates a 4" vertical orifice with a 3' weir. 25 and 100-year events are provided. The applicant needs to examine the attenuation for the 1, 2, 10 and 50-year storm events.

Outlet Structure now consists of 2 rows of 5/8" holes with a 3' wide weir as shown on plan SW-4 and drainage report. Drainage report reflects storms requested.

15. As previously noted, the stormwater design calculations shall include drainage maps for existing and proposed conditions to illustrate the drainage areas used in the design calculations.

The requested information has been provided and should be updated as the plan develops.

16. The plans shall include a note indicating the source of the survey and topographic data, including the referenced datum, utilized for the development of the plan.

The requested note has been added to Sheet SW-1.

Comment addressed.

General Comments by Planner

The site plan depicts the removal of 20 Town-regulated trees. Six Town-regulated trees (7 trees) will remain on the property. The Planning Department is concerned that the proposed trees to remain at the rear will be negatively impacted by the proposed fill in this area. In addition, the proposed wall and rip rap slope will be highly visible from 4 Freedom Road. It is recommended that the site plan eliminate the rip rap slope and the site plan revised to install an additional lower retaining wall. The Applicant should then plant between wall tiers and at the base of the lower wall. This would screen the walls and eliminate any fill below the walls.

The applicant has consulted with Mr. Kellard about that aspect of the plan and based on that consultation, has revised the plan to replace the originally proposed rip-rap slope with a 1:1 vegetated slope. This revised plan limits grading near the 6 Town Regulated existing trees and one tree with a DBH of 6 inches in the rear of the property to remain. See Site Plan/Zoning Analysis/Grading (SW-1), prepared by Gabriel E. Senor PC, dated October 3, 2021 last revised June 23, 2022 submitted herewith. Revised Landscaping plan has been provided.

The site contains a significant amount of rock that will need to be removed in order to develop the site. The development of this lot will require a substantial amount of rock chipping or blasting that may significantly impact surrounding properties. The Applicant should indicate the proposed method of rock removal. If blasting, the Applicant should provide a blasting plan for review pursuant to Article I of Chapter 122 of the Town Code. If Chipping is proposed, the Applicant should provide a chipping plan for review pursuant to Article II (recently adopted) of Chapter 122 of the Town Code. The Applicant should provide a chipping plan for review at this time. 4. The site plan depicts 3,631 square feet of Town-regulated steep slopes.

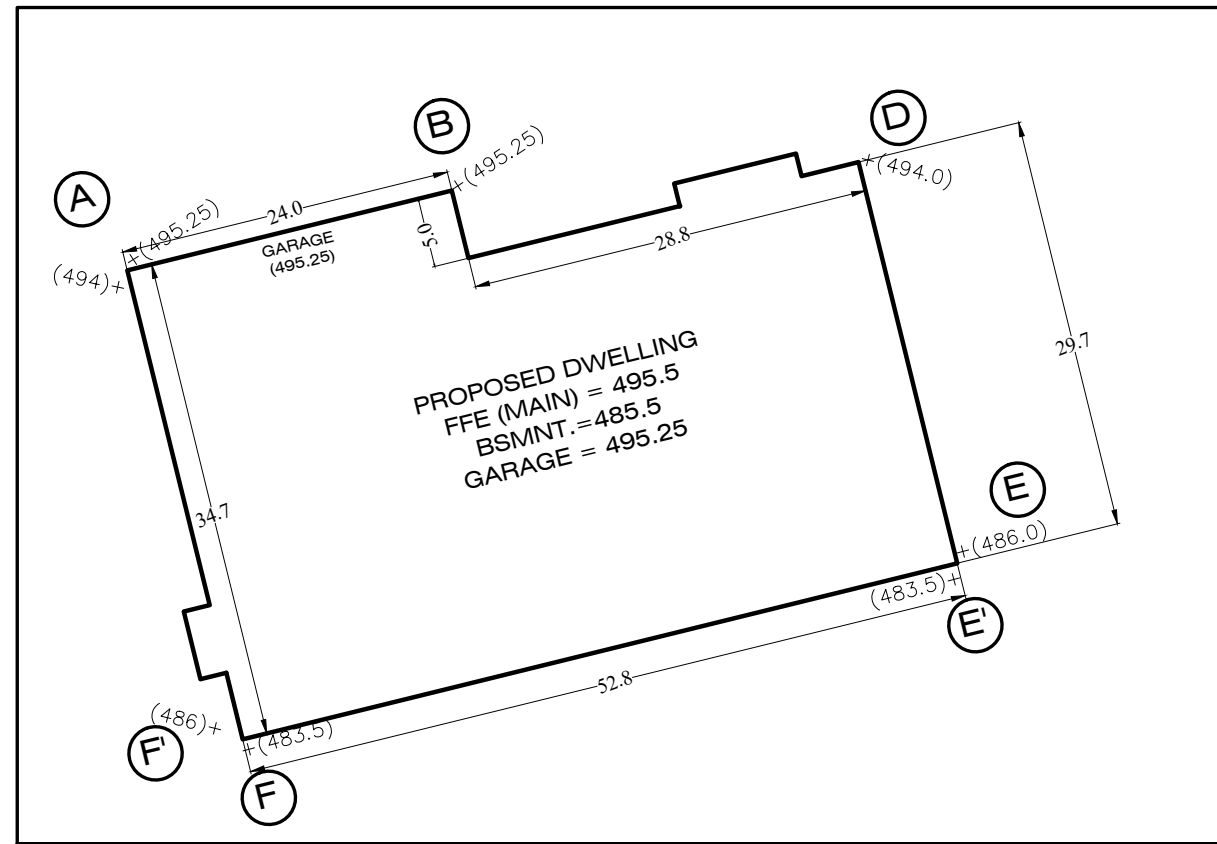
It is anticipated that rock removal will be kept to a minimum. The excavation of rock for the foundation will be kept to a minimum due to the implementation of crawl space and pinning of the foundation. (approximately 10 cubic yards)

GENERAL NOTES

- Gabriel E. Senor, P.C. is not responsible for construction supervision unless retained under separate contract.
- Gabriel E. Senor, P.C. must be notified prior to backfilling any storm water system for inspection if The Engineering Dept. will require a final letter of certification from the design engineer for the storm water approval, site work and drainage installation.
- Any changes made to these plans shall be approved by Gabriel E. Senor, P.C. Any changes must be filed and approved by the appropriate Department as amendments.
- Gabriel E. Senor, P.C. is not responsible for damages if changes are made and not approved as in item 1 above.
- All conditions, locations, dimensions and elevations shall be verified by the Contractor or Owner and must report all discrepancies to the Design Engineer prior to the start of construction.
- All work and materials shall comply with all applicable codes including, but not limited to the following: NYS Building Code, Local Zoning Code, ACI and AISC.
- The Contractor is responsible for all construction means and methods to implement the designs shown.
- Safety during construction is the responsibility of the Contractor and shall conform to all Local, State and Federal Agencies' requirements.
- The Contractor shall apply for and receive all necessary permits to perform the work shown on these plans prior to the start of construction.
- Final grading shall be sloped away from the building and foundations.
- Unless noted, all drainage piping on this plan is to be 6" Rigid HDPE ASTM F810-07 or better.
- This storm water design plan is not designed to accept footing drains. Refer to Architectural plans for footing drain design. Do not connect footing drains or sump pumps to this surface water drainage system.
- If the drainage system is to be built in a filled area, the fill should be well drained material with a settling period of one to three months prior to the system installation. Additional percolations are required after the settling period and the system design will be revised as necessary.
- Proposed Silt Fence to be installed along existing and proposed contours.
- Orange Construction Fence to be installed along the limits of the proposed disturbance limits line.
- Roof leaders to be connected to the drainage system with 6" rigid HDPE pipe at 2% min. slope or as shown.
- The Contractor and all Sub-Contractors must submit a "Contractor Certification Statement" as per section 294-8 of the NYSDEC "Stormwater Pollution Prevention Plan" manual prior to the start of construction.
- If imported fill material is required, it shall be certified in writing by a New York State licensed Professional Engineer as non-contaminated, clean fill suitable for the intended use. Percolation tests shall be performed by the Design Engineer to demonstrate that the stormwater management practice will drain down the entire water quality volume within 48 hours. The results of the percolation test (s) shall be submitted to the Municipal Engineer for review and approval.
- All proposed temporary seeding mixture shall be in accordance with the New York State Standards and Specifications for Urban Erosion Control, dated August 2005.
- New sewer laterals are required for all new construction. Laterals must be extra heavy cast iron or ductile iron pipe or as directed by Municipal Engineer.
- Connection permits are required from the Department of Public Works for Sewer, Water, and Storm Water System overflows.
- All trenches in the Municipality Right of Way must be backfilled with controlled density fill (k-crete) or as directed by Municipal Engineer.
- A street opening permit must be obtained from the Municipality, all work in the Right of Way and an inspection performed prior to back filling and final approvals.
- Replace or re-lay stone curb as directed by Municipal Engineer.
- A non-construction agreement for the basement in Special Flood Hazard Zone must be signed and filed prior to the issuance of a C. of O. for properties subjected to flooding.
- Curb cut permit is required from the Department of Public Works. Curb cut maximum width is 18 feet.
- The contractor shall schedule with the Municipality a rough grading inspection prior to any framing of a building above the first floor braced decking. Excess soils of significance shall be removed and disposed of upon completion of the rough grading.
- The structures for the storm water management system shall be installed at the earliest date possible when the structure's roof is complete. The contractor shall consult with the Municipality and schedule this work upon completion and inspection of the rough grading activities.
- The contractor shall secure a Street Opening Permit with the Municipality for all work to take place on the right of way including construction of a new driveway apron, and installation of new service laterals.
- If necessary, the Contractor shall secure a Tree Removal Permit with the Municipality prior to the commencement of construction activities.
- Contractor required to provide Dig Safe NY ticket prior to issuance of permits.
- proper construction of all walls four (4) feet and greater in height shall be certified by the Design Professional prior to issuance of a Certificate of Occupancy.

ZONING TABLE - 21 NETHERMONT AVE				
ZONE: SINGLE FAMILY RESIDENCE DISTRICT "R-5"				
TOTAL LOT AREA: 0.21 Acres (9,361.31 SF)				
DESCRIPTION	MIN/REQUIRED	PROPOSED		
MINIMUM LOT AREA	5000	SF	9,361.31	SF
75% WETLAND AREA	-		N/A	SF
50% STEEP SLOPE AREA	-		1,815.31	SF
MIN LOT FRONTAGE	50	FT	111.25	FT
MIN LOT WIDTH	50	FT	91.6 (AVG)	FT
MIN LOT DEPTH	100	FT	105 (AVG)	FT
FRONT YARD SETBACK	30	FT	30.7	FT
SIDE SETBACK	8	FT	8.0	FT
SECOND SIDE SETBACK	Total Both Sides - 18		22.3	FT
REAR YARD SETBACK	30	FT	31.8	FT
OFF-STREET PARKING	2	EA	2.0	EA
OFF-STREET LOADING	1	EA	1.0	EA
MAX BUILDING HEIGHT (AVG GRADE TO MID ROOF)	30	FT	25.87	FT
MAX BUILDING HEIGHT (HIGHEST SECTION PLANE)	35	FT	33.25	FT
MAX BUILDING COVERAGE (USING NET LOT AREA)	30%		23%	

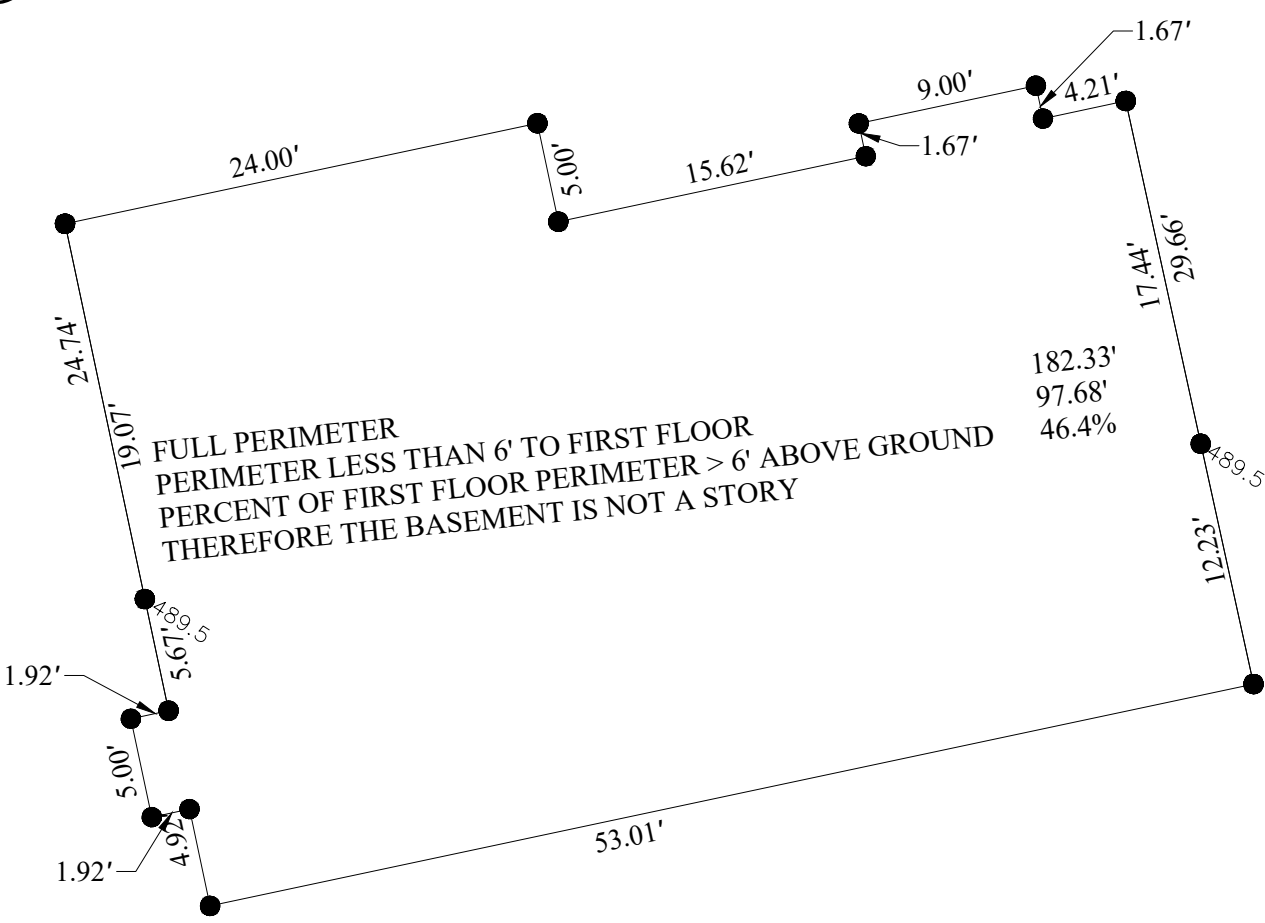
AVERAGE GRADE EXHIBIT AND CALCULATIONS



AVERAGE GRADE				
	elevation	elevation	ave elev.	length
A-B	495.25	495.25	495.25	24
B-D	495.43	494	494.715	28.83
D-E	494	486	490	29.66
E-F	483.5	483.5	483.5	52.83
F-A	486.5	494	490.25	34.7
			170.02	83237
				489.5719 ave grade

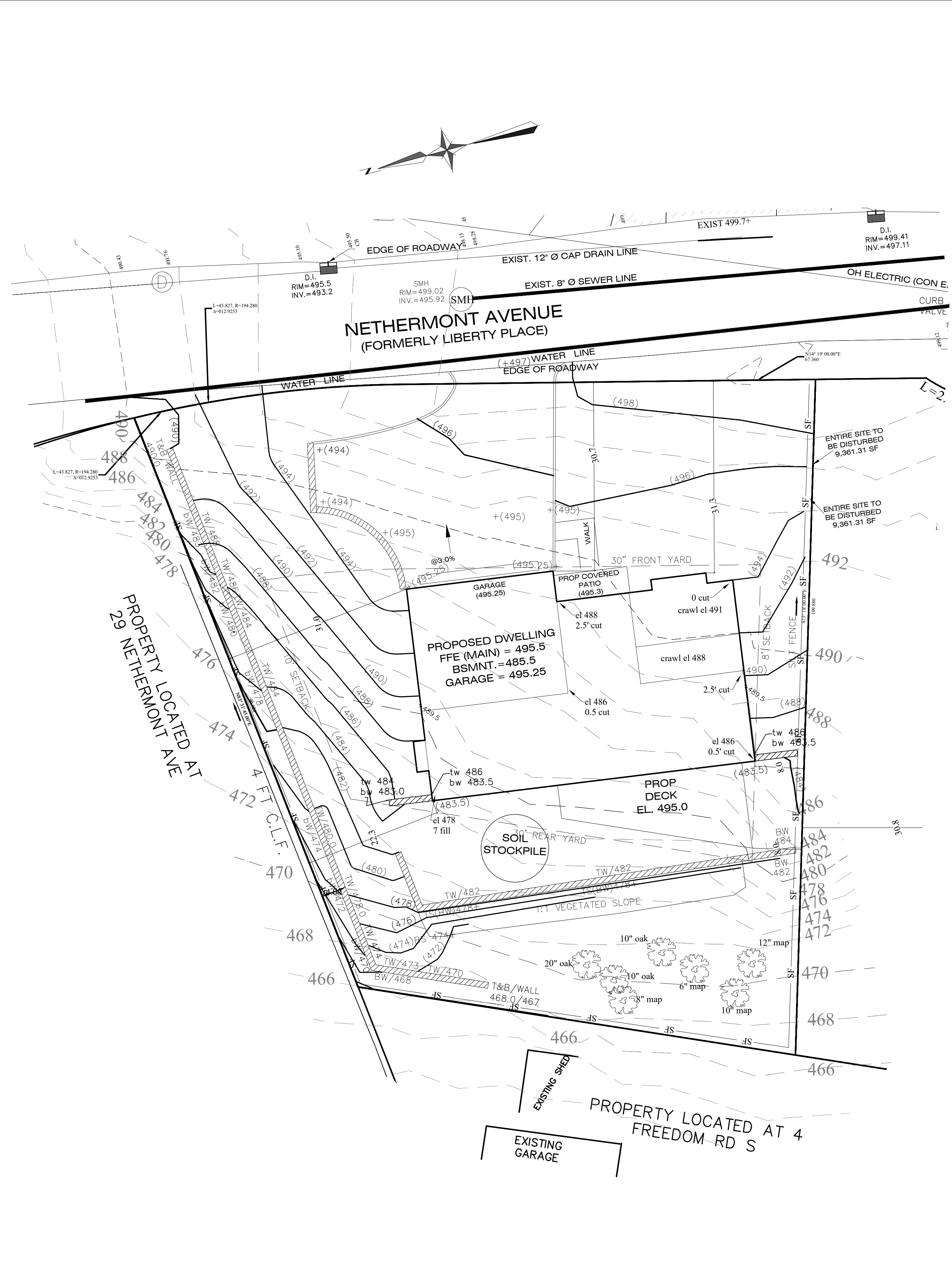
SEE ARCHITECTURAL DRAWINGS FOR BUILDING HEIGHT SCHEMATICS.

PERCENT OF FIRST FLOOR MORE MORE THAN 6' ABOVE GRADE



EROSION CONTROL NOTES

- INSTALLATION & MAINTENANCE OF EROSION CONTROL**
- CONSTRUCTION SCHEDULE**
NOTIFY APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 5 DAYS PRIOR TO START.
- EROSION CONTROL MEASURES**
- Install all erosion control measures prior to start of construction.
 - Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 Days prior to finish.
- INSPECTION BY MUNICIPALITY**
- MAINTENANCE (TO BE PERFORMED DURING ALL PHASES OF CONSTRUCTION)**
- After any rain causing runoff, Contractor to inspect silt fences, etc. and remove any excessive sediment and inspect stockpiles and correct and problems with seed establishment.
 - Inspections shall be documented in writing and submitted to the appropriate Municipal Agency having jurisdiction.
- STOCK PILING OF EXCAVATED MATERIAL**
- Strip Topsoil and Stockpile.
 - Stockpile Excavation Subgrade.
 - Seed piles with 1 lb. total annual rye or remove from site within two days.
- INSPECTION BY MUNICIPALITY**
- FINAL GRADING**
- Remove unneeded subgrade from site.
 - Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.
- INSPECTION BY MUNICIPALITY**
- LANDSCAPING**
- Spread topsoil evenly over areas to be seeded. Hand rake level.
 - Broadcast 1 25lb. bag of Jonathan Green "Fastgrow" mix or equal over areas to be seeded.



LEGEND

- ⊕ WATER MANHOLE
- ⊙ ELECTRIC MANHOLE
- ⊖ DRAIN MANHOLE
- ⊗ MANHOLE
- ⊠ ELECTRIC BOX
- 14 TREE
- SIZE TREE TO BE REMOVED
- UTILITY POLE
- ⊕ SIGN POST
- ⊗ HYDRANT
- ⊖ WATER VALVE
- ⊗ GAS VALVE
- ⊖ LIGHT POLE
- ⊖ GUY WIRES
- ⊕ TELE. MANHOLE
- ⊙ SEWER MANHOLE

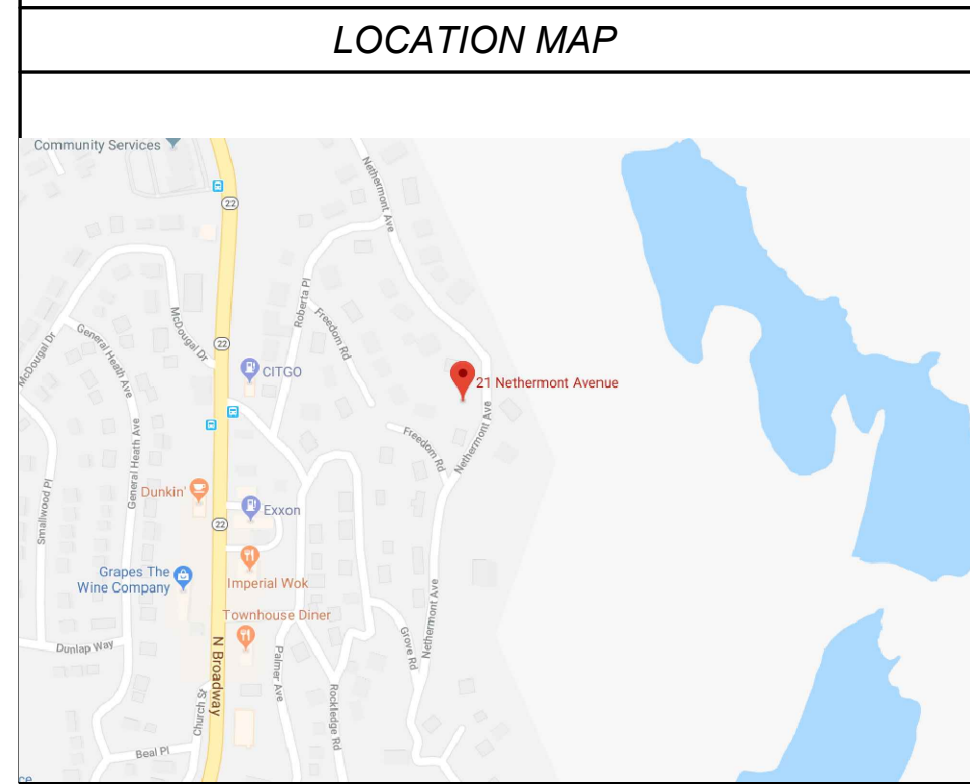
APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED: _____ DATE: _____

CHRISTOPHER CARTHY, CHAIRMAN
TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING PLANS REVIEWED FOR CONFORMANCE TO RESOLUTION: _____ DATE: _____

JOSEPH M. CERMELE, P.E.
KELLARD SESSIONS CONSULTING CONSULTING TOWN ENGINEERS

"Variance from Section 355-59D of the North Castle Code permitting 116 ft of sight distance from the driveway looking northbound and 114 ft of sight distance from the driveway looking southbound granted by the North Castle Zoning Board of Appeals on 4-7-22."



NO	DATE	DESC	BY
3	06/23/2022		SGA
2	05/5/2022		SGA
1	11-18-21	grading	es

REVISIONS

SITE PLAN/ZONING ANALYSIS/GRADING

PREPARED FOR: DINO DELAURENTIS

ADDRESS: 21 NETHERMONT AVE
NORTH CASTLE, NY (WHITE PLAINS P.O.)

TAX ID: SECTION 122.16 - TAX BLOCK 4 - LOT 41

SITUATED IN THE
TOWN OF NORTH CASTLE
WESTCHESTER COUNTY, NEW YORK

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GABRIEL E. SENOR, P.C.
CONSULTING ENGINEER LAND SURVEYORS
90 NORTH CENTRAL AVE., HARTSDALE, NEW YORK, 10530
• (914) 422-0070 FAX 422-3009

SCALE: 1" = 10'

DATE: OCTOBER 03, 2021

DRAWN BY: GC CHECKED BY: ES.

SW-1

- ADDITIONAL NOTES:**
- All retaining walls on the property are proposed.
 - Garbage will be kept in trash bins in the garage until the day prior to pick up and be brought to the end of the driveway in enclosed lockable bins the day prior to trash pick up.
 - All surveying performed by Gabriel E Senor P.C.

LEGEND

- ⊕ WATER MANHOLE
- ⊖ UTILITY POLE
- ⊙ ELECTRIC MANHOLE
- ⊖ SIGN POST
- ⊙ DRAIN MANHOLE
- ⊖ HYDRANT
- ⊙ MANHOLE
- ⊖ WATER VALVE
- ⊙ ELECTRIC BOX
- ⊖ GAS VALVE
- 102
- EXISTING GRADE
- (102)
- PROPOSED GRADE
- 14 TREE
- SIZE
- TREE TO BE REMOVED
- ⊕ TELE. MANHOLE
- ⊙ SEWER MANHOLE
- ⊖ GUY WIRES

SILT FENCE
or HAYBALES AS REQ'D

APPROVED BY TOWN OF NORTH CASTLE
PLANNING BOARD RESOLUTION,
DATED: _____

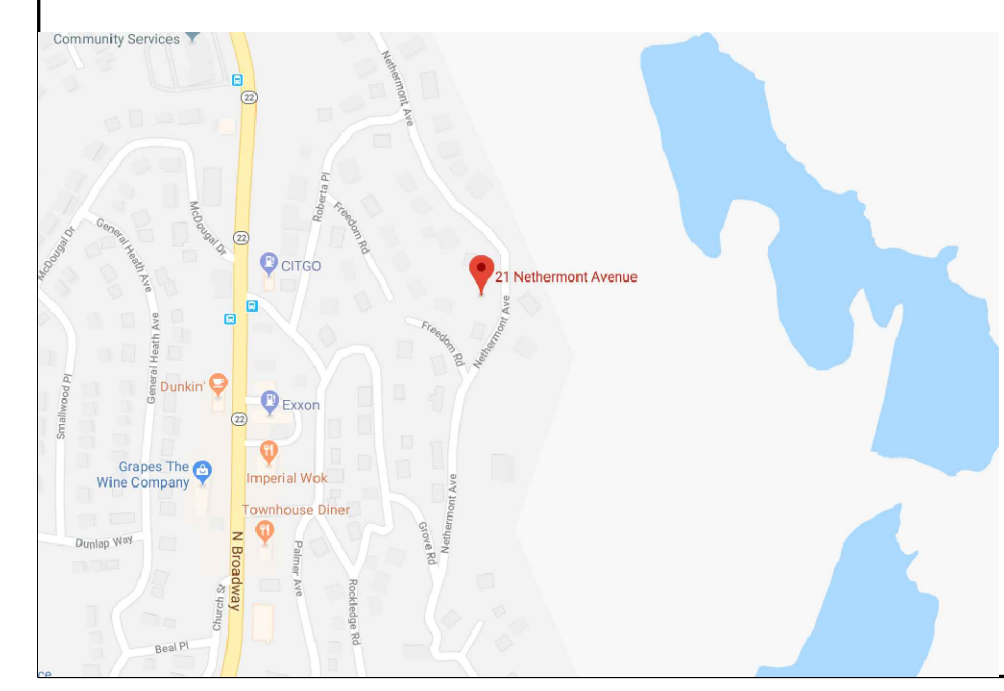
DATE: _____
CHRISTOPHER CARTHY, CHAIRMAN
TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING PLANS REVIEWED FOR
CONFORMANCE TO RESOLUTION: _____

DATE: _____
JOSEPH M. CERMELE, P.E.
KELLARD SESSIONS CONSULTING
CONSULTING TOWN ENGINEERS

"Variance from Section 355-59D of the
North Castle Code permitting 116 ft of
sight distance from the driveway looking
northbound and 114 ft of sight distance
from the driveway looking southbound
granted by the North Castle Zoning Board
of Appeals on 4-7-22."

LOCATION MAP



NO	DATE	DESC	BY

REVISIONS

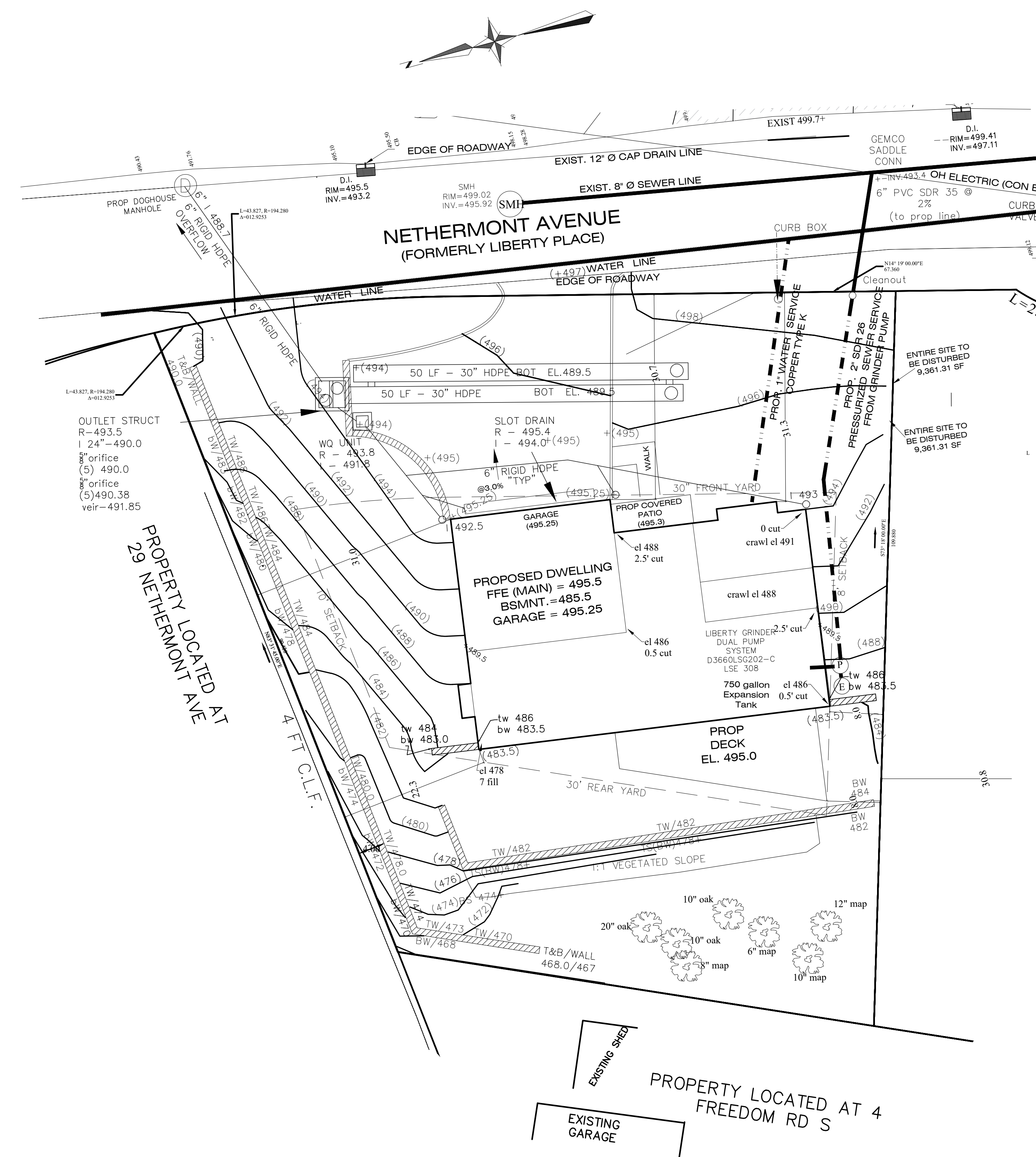
UTILITY PLAN

PREPARED FOR: DINO DELAURENTIS
ADDRESS: 21 NETHERMONT AVE
NORTH CASTLE, NY (WHITE PLAINS P.O.)
TAX ID: SECTION 122.16 - TAX BLOCK 4 - LOT 41
SITUATED IN THE
TOWN OF NORTH CASTLE
WESTCHESTER COUNTY, NEW YORK

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GABRIEL E. SENOR, P.C.
CONSULTING ENGINEER LAND SURVEYORS
90 NORTH CENTRAL AVE., HARTSDALE, NEW YORK, 10530
(914) 422-0070 FAX 422-3009

SCALE: 1" = 10'
DATE: JUNE 23, 2022
DRAWN BY: GC
CHECKED BY: ES.
SW-2



- ADDITIONAL NOTES:
- All retaining walls on the property are proposed.
 - Garbage will be kept in trash bins in the garage until the day prior to pick up and be brought to the end of the driveway in enclosed lockable bins the day prior to trash pick up.
 - All surveying performed by Gabriel E. Senior P.C.



LEGEND

⊕ WATER MANHOLE	⊕ UTILITY POLE
⊕ ELECTRIC MANHOLE	⊕ SIGN POST
⊕ DRAIN MANHOLE	⊕ HYDRANT
⊕ MANHOLE	⊕ WATER VALVE
⊕ ELECTRIC BOX	⊕ GAS VALVE
102	⊕ LIGHT POLE
EXISTING GRADE (102)	⊕ GUY WIRES
PROPOSED GRADE	⊕ TELE. MANHOLE
14 TREE	⊕ SEWER MANHOLE
SIZE	
TREE TO BE REMOVED	

SILT FENCE or HAYBALES AS REQ'D

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED: _____

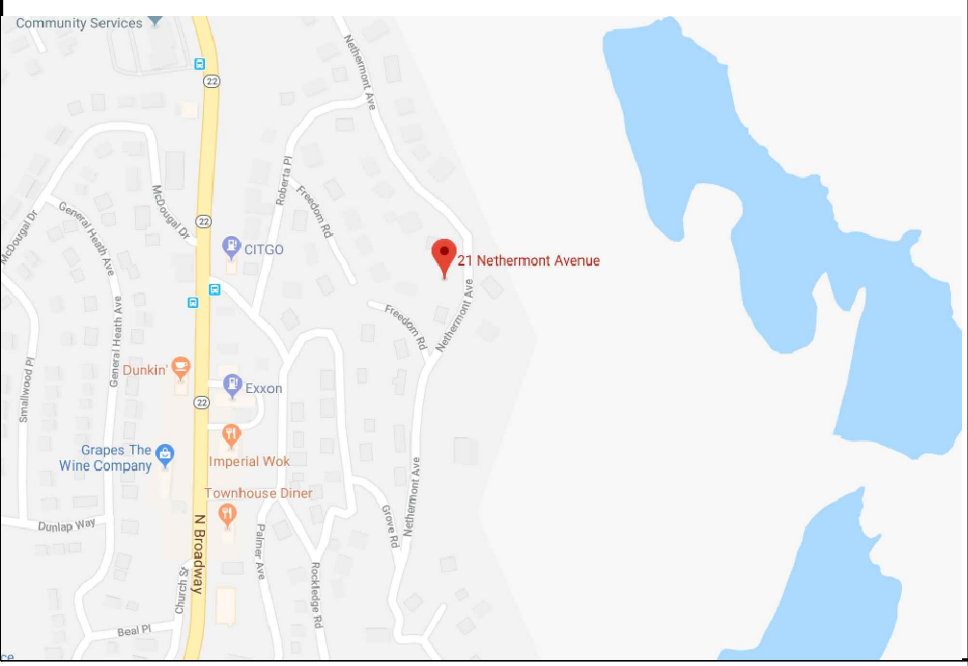
DATE: _____
CHRISTOPHER CARTHY, CHAIRMAN
TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING PLANS REVIEWED FOR CONFORMANCE TO RESOLUTION: _____

DATE: _____
JOSEPH M. CERMELE, P.E.
KELLARD SESSIONS CONSULTING
CONSULTING TOWN ENGINEERS

"Variance from Section 355-59D of the North Castle Code permitting 116 ft of sight distance from the driveway looking northbound and 114 ft of sight distance from the driveway looking southbound granted by the North Castle Zoning Board of Appeals on 4-7-22."

LOCATION MAP



NO	DATE	DESC	BY

CROSS SECTIONS

PREPARED FOR: DINO DELAURENTIS
ADDRESS: 21 NETHERMONT AVE
NORTH CASTLE, NY (WHITE PLAINS P.O.)
TAX ID: SECTION 122.16 - TAX BLOCK 4 - LOT 41
SITUATED IN THE
TOWN OF NORTH CASTLE
WESTCHESTER COUNTY, NEW YORK

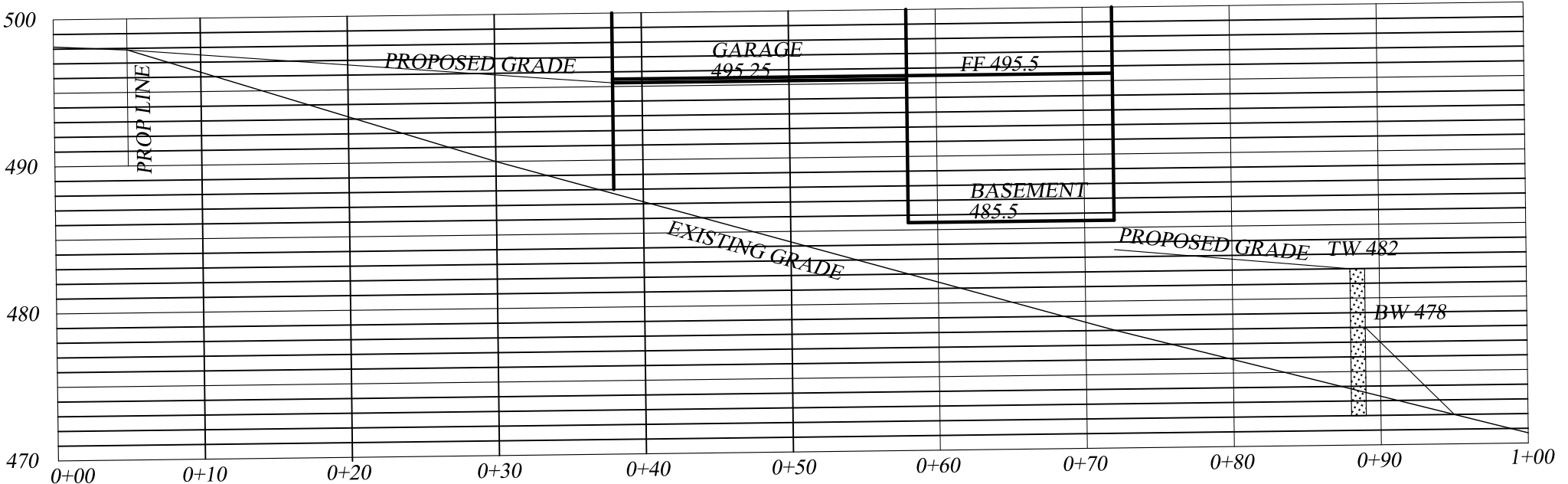
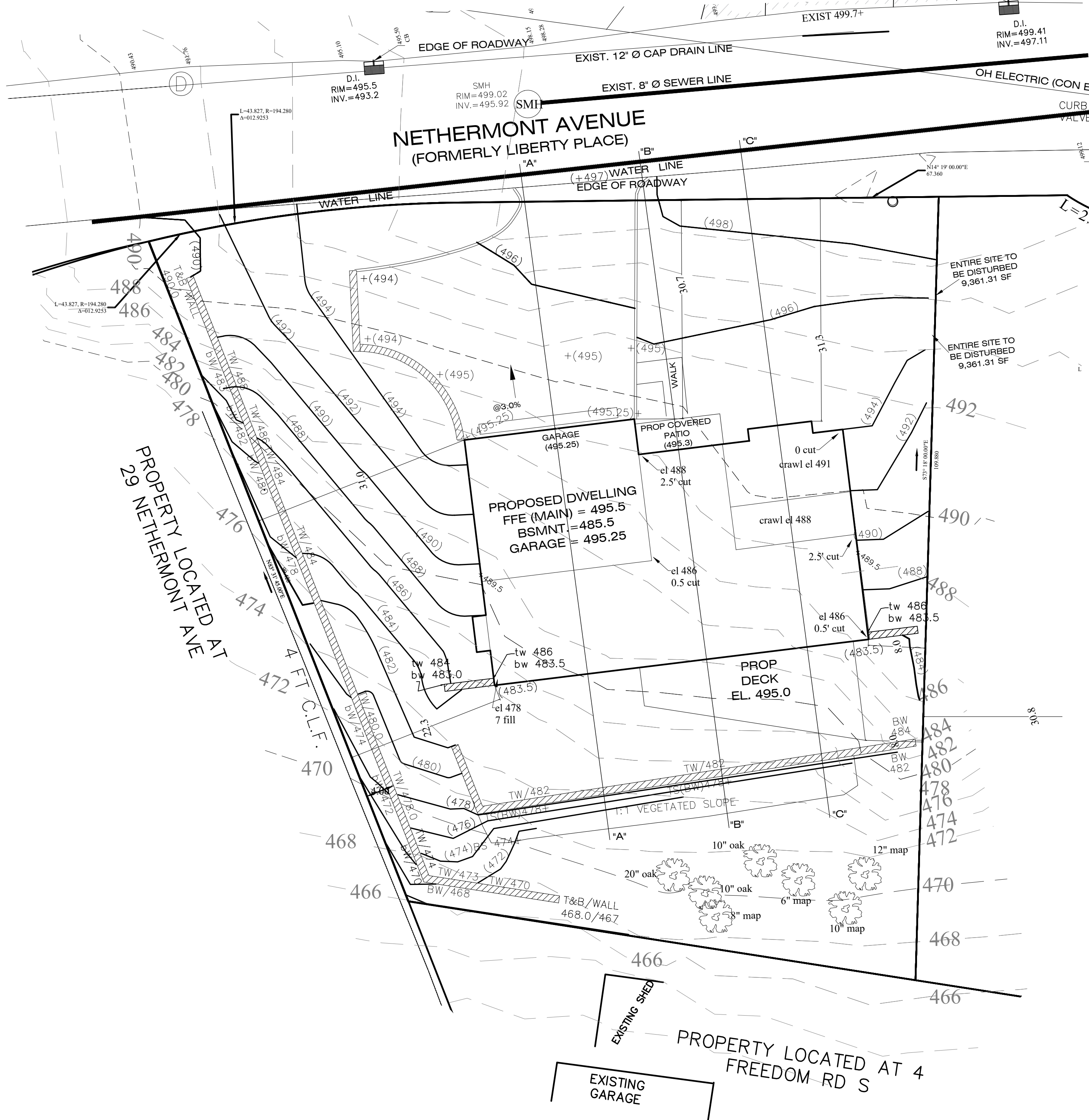
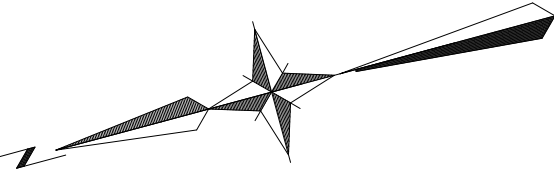
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GABRIEL E. SENOR, P.C.

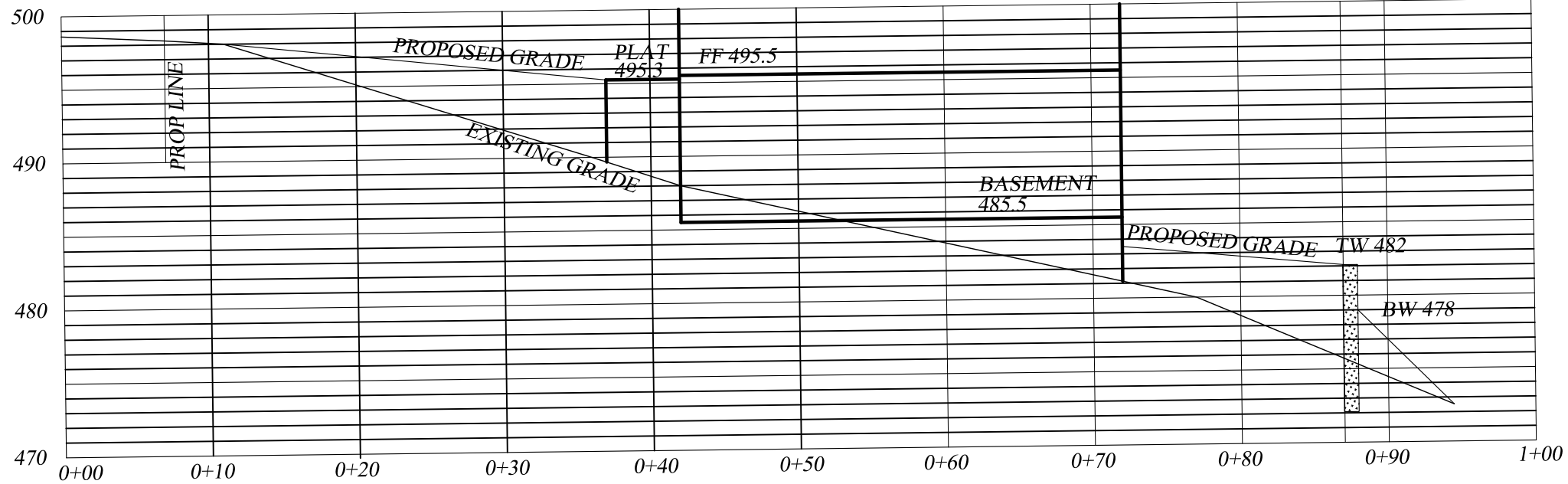
CONSULTING ENGINEER LAND SURVEYORS
90 NORTH CENTRAL AVE., HARTSDALE, NEW YORK, 10530
• (914) 422-0070 FAX 422-3009



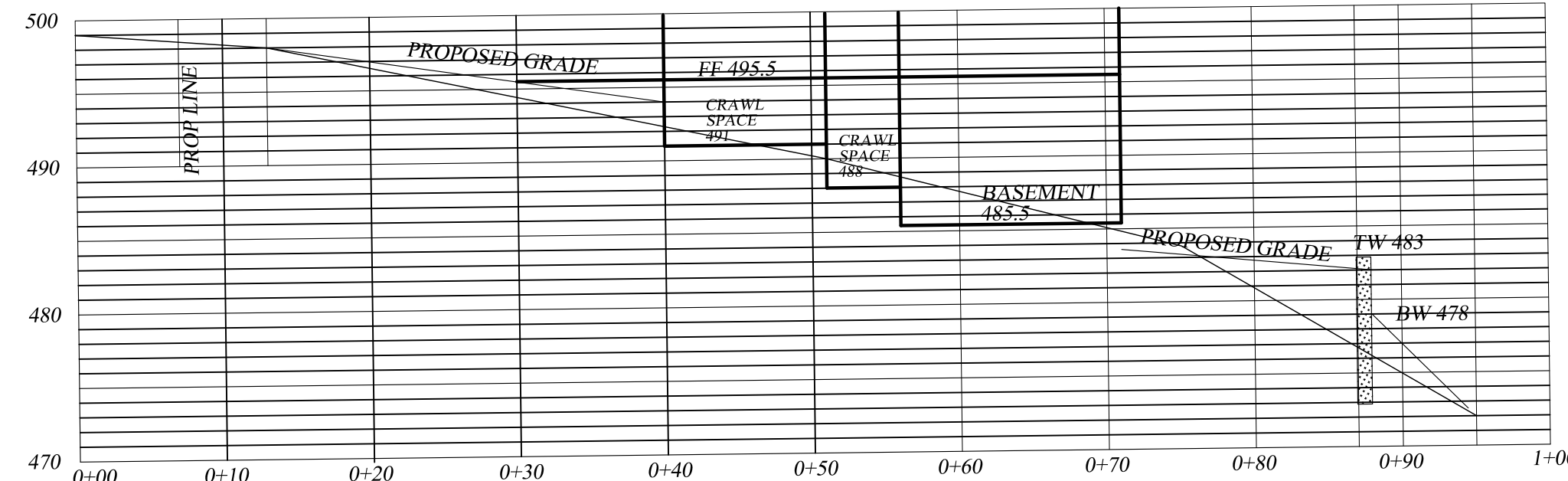
SCALE: 1" = 10'
DATE: JUNE 23, 2022
DRAWN BY: GC
CHECKED BY: ES.



SECTION "A"- "A"
HORZ/VERT 1"=10'

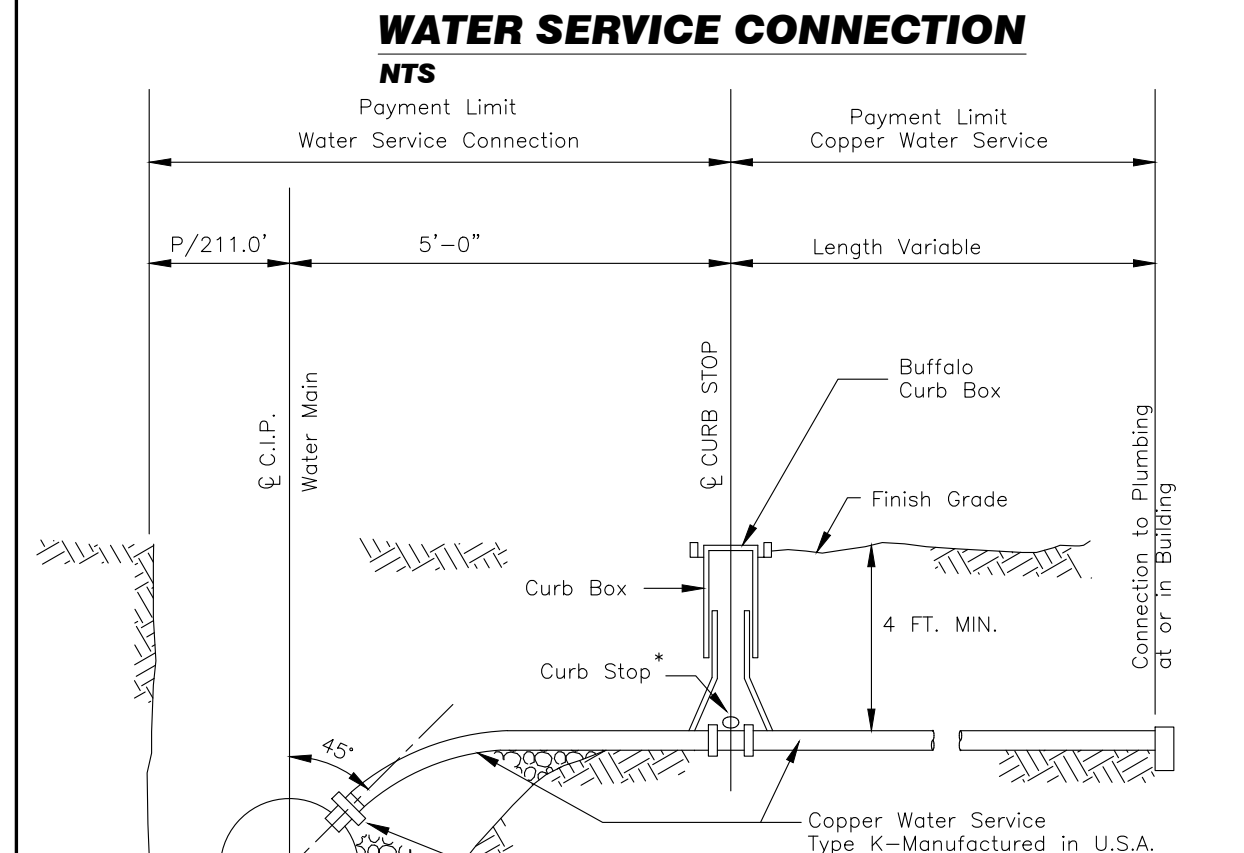
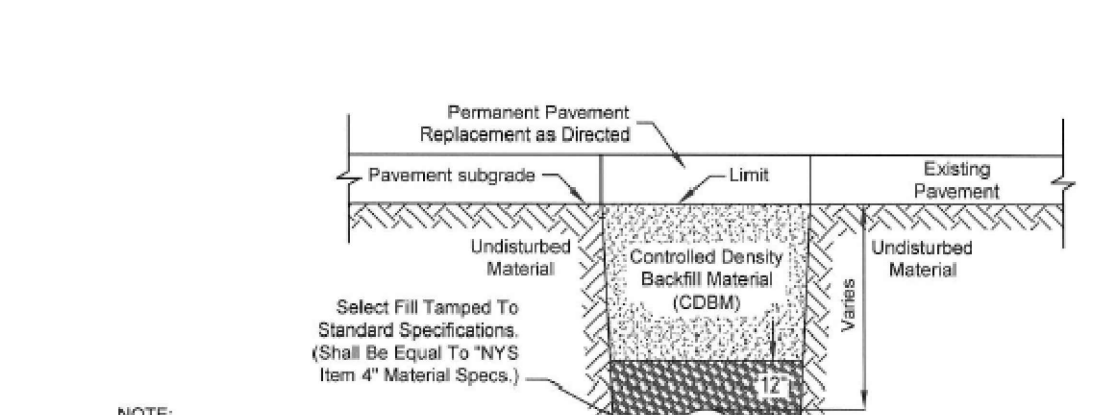
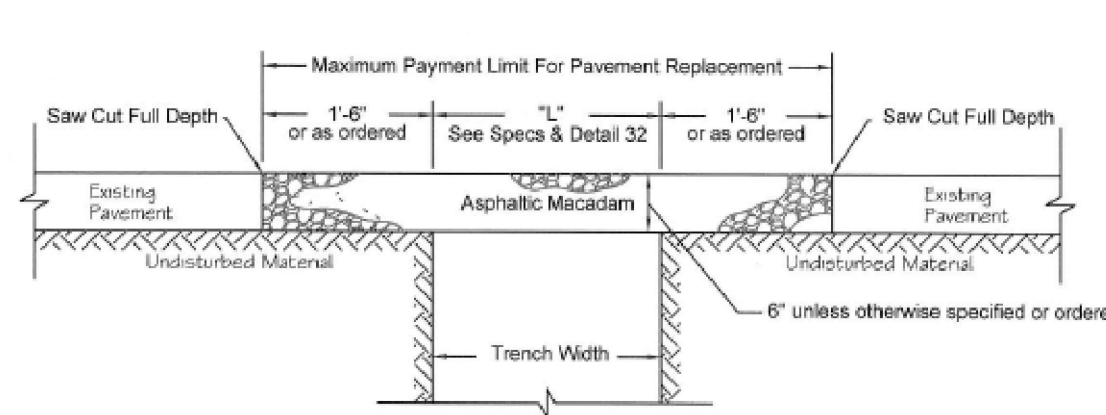
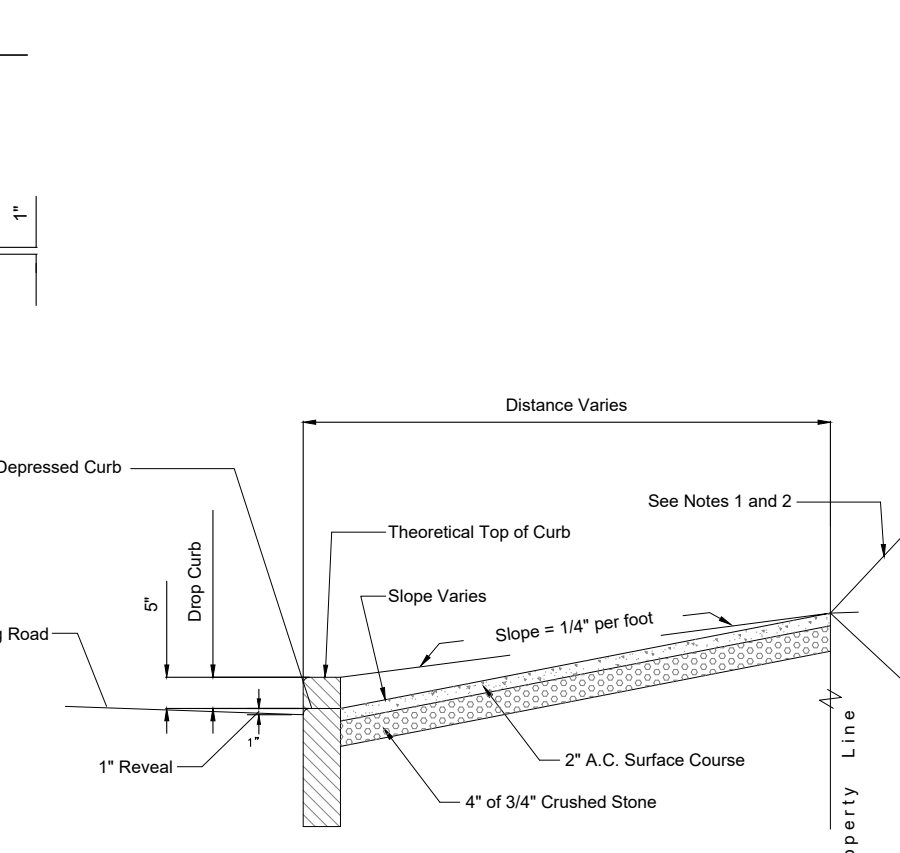
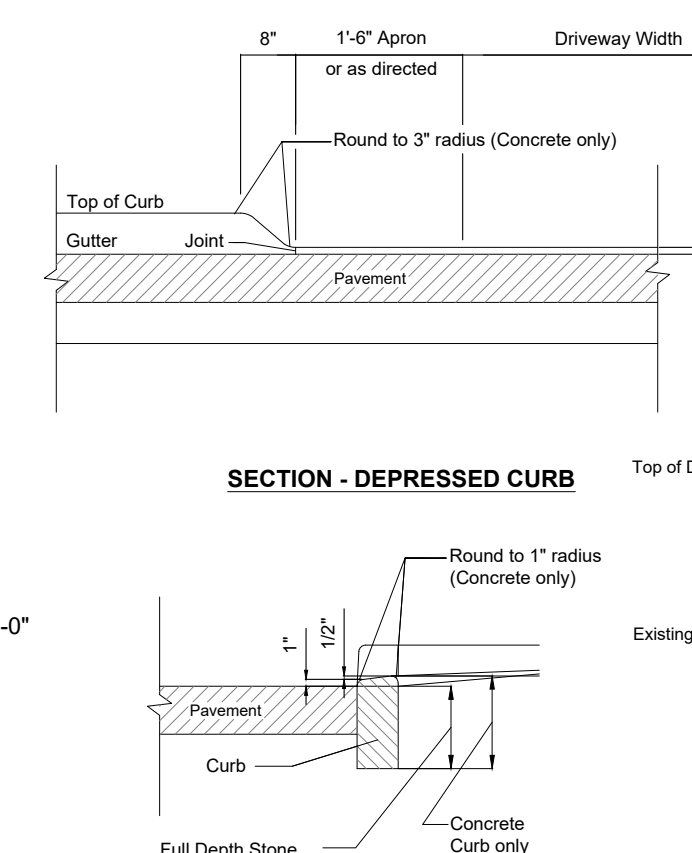
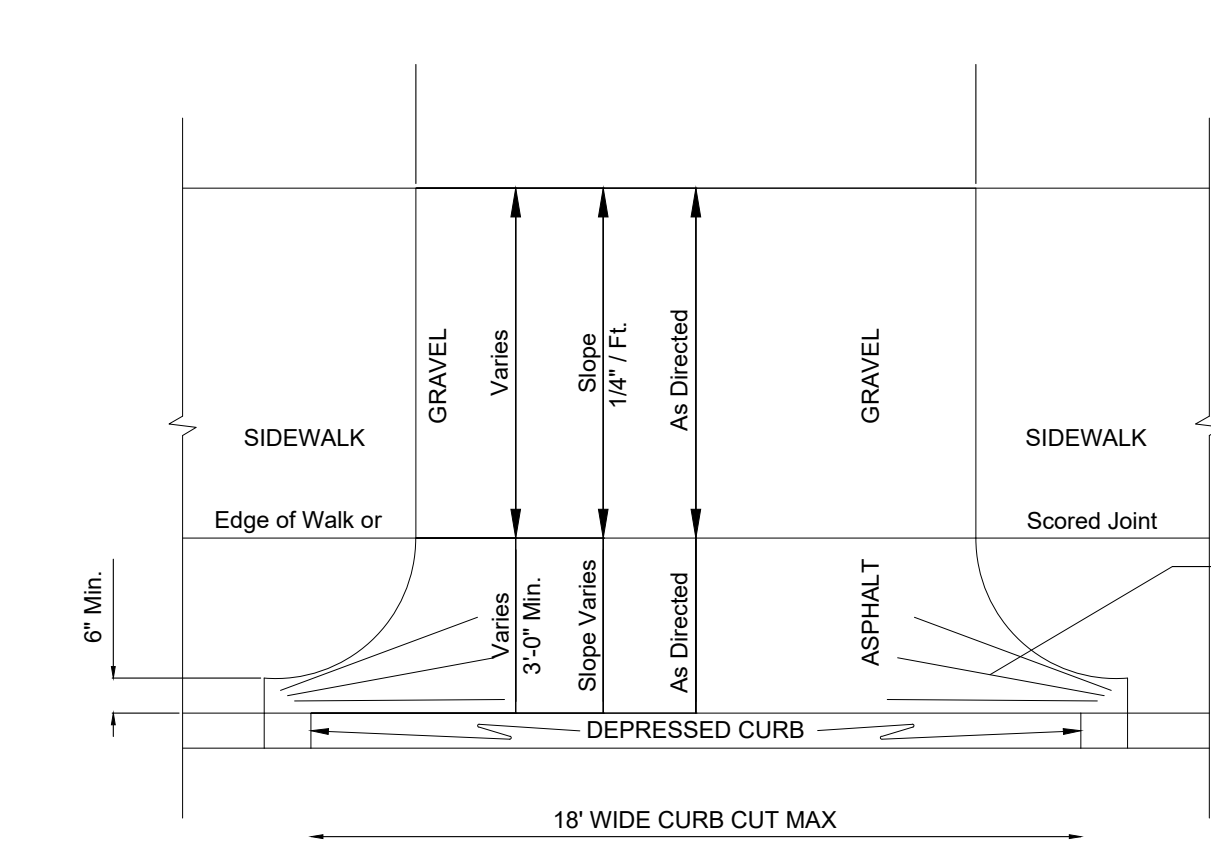


SECTION "B"- "B"
HORZ/VERT 1"=10'



SECTION "C"- "C"
HORZ/VERT 1"=10'

- ADDITIONAL NOTES:
- All retaining walls on the property are proposed.
 - Garbage will be kept in trash bins in the garage until the day prior to pick up and be brought to the end of the driveway in enclosed lockable bins the day prior to trash pick up.
 - All surveying performed by Gabriel E Senor P.C.



NOTE: 1. The base course shall consist of compacted 3/4" crushed stone.

Additional #3 bars Reinforcement Minimum length 4'-0"

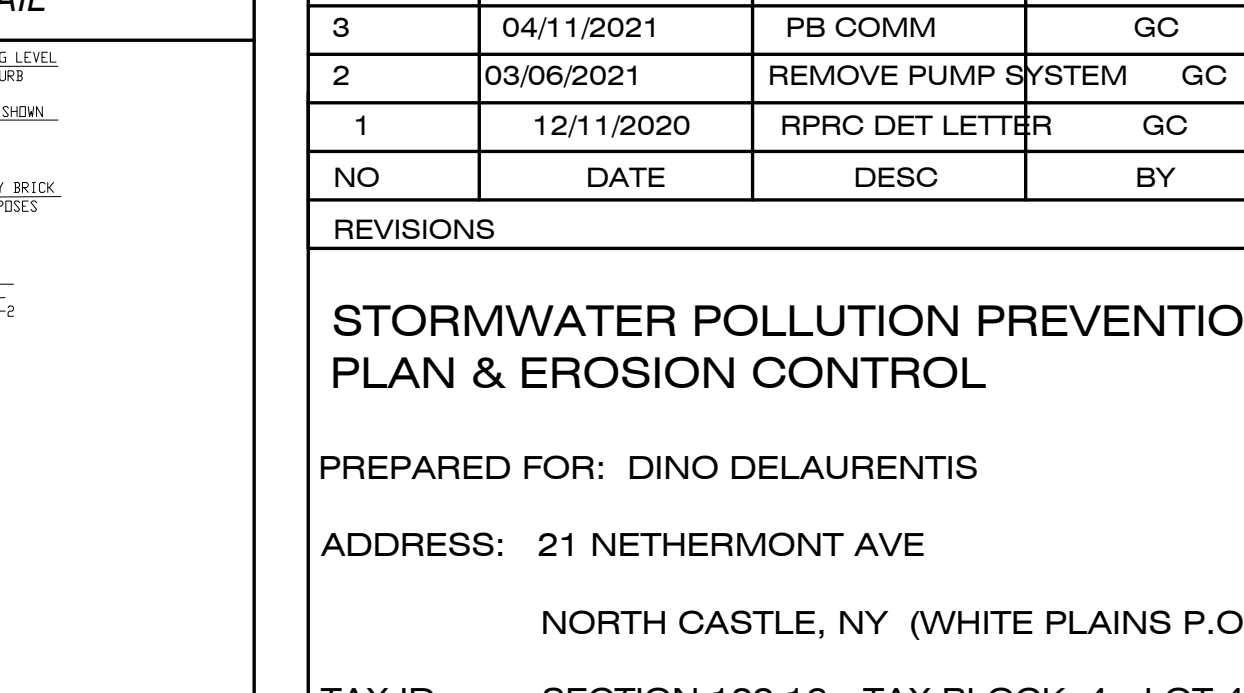
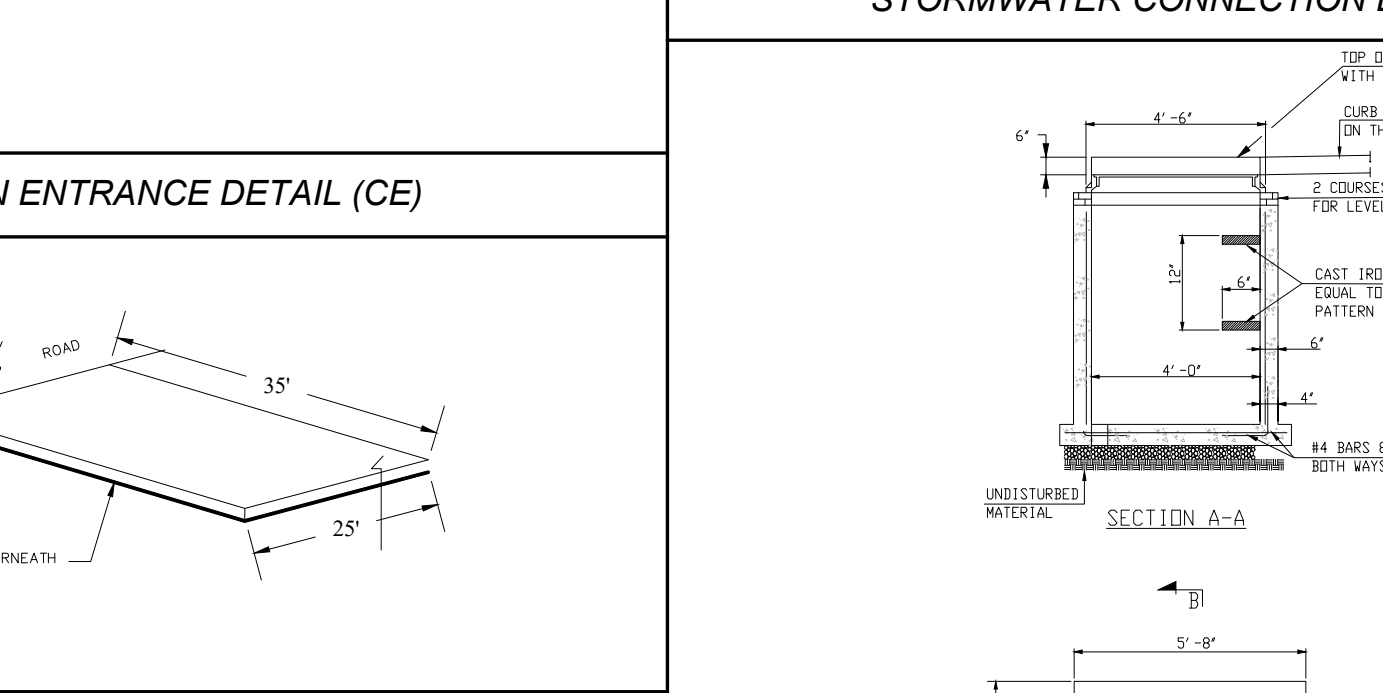
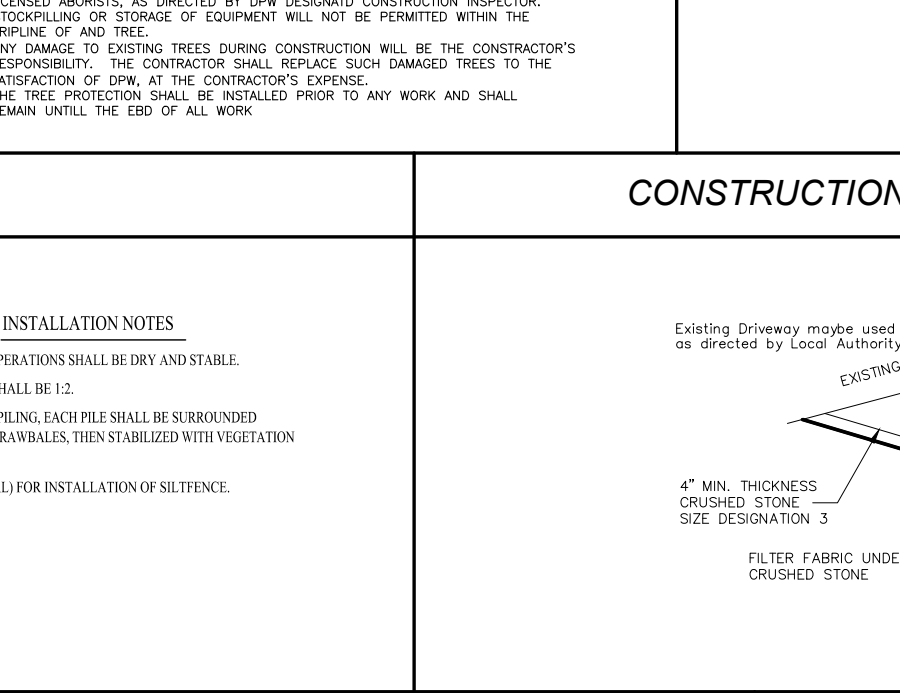
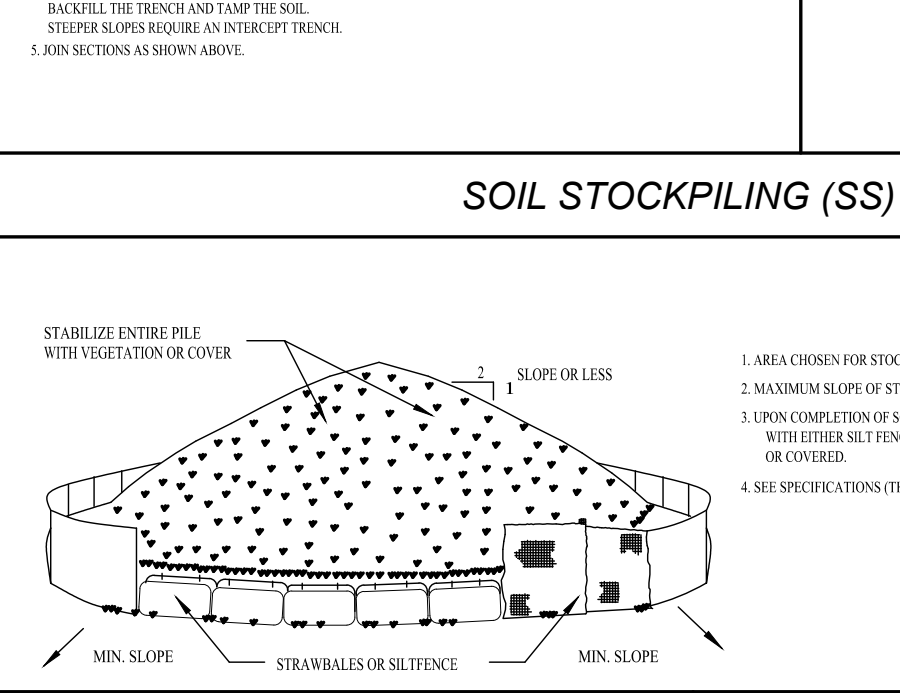
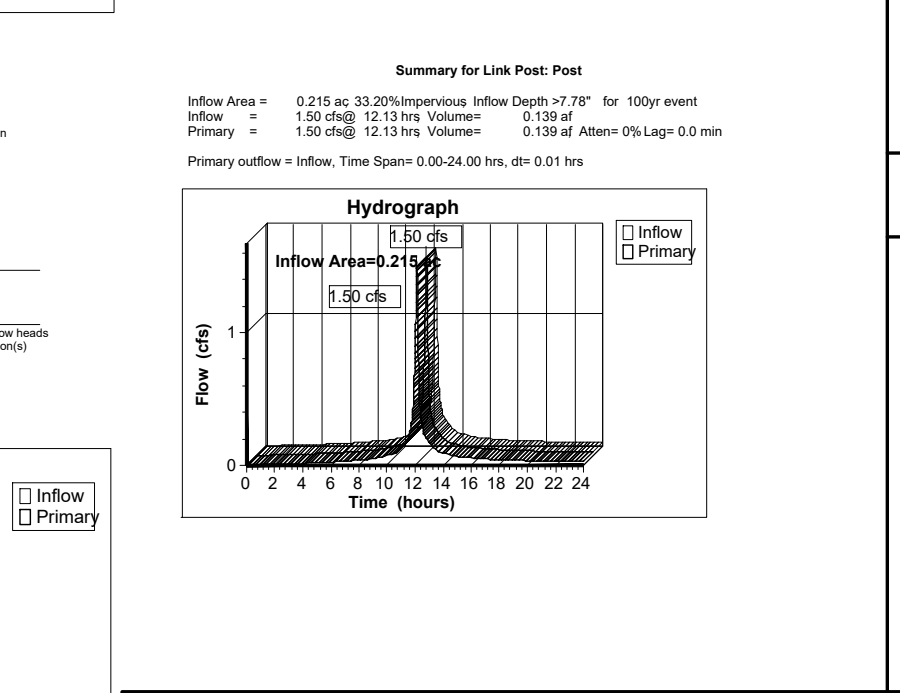
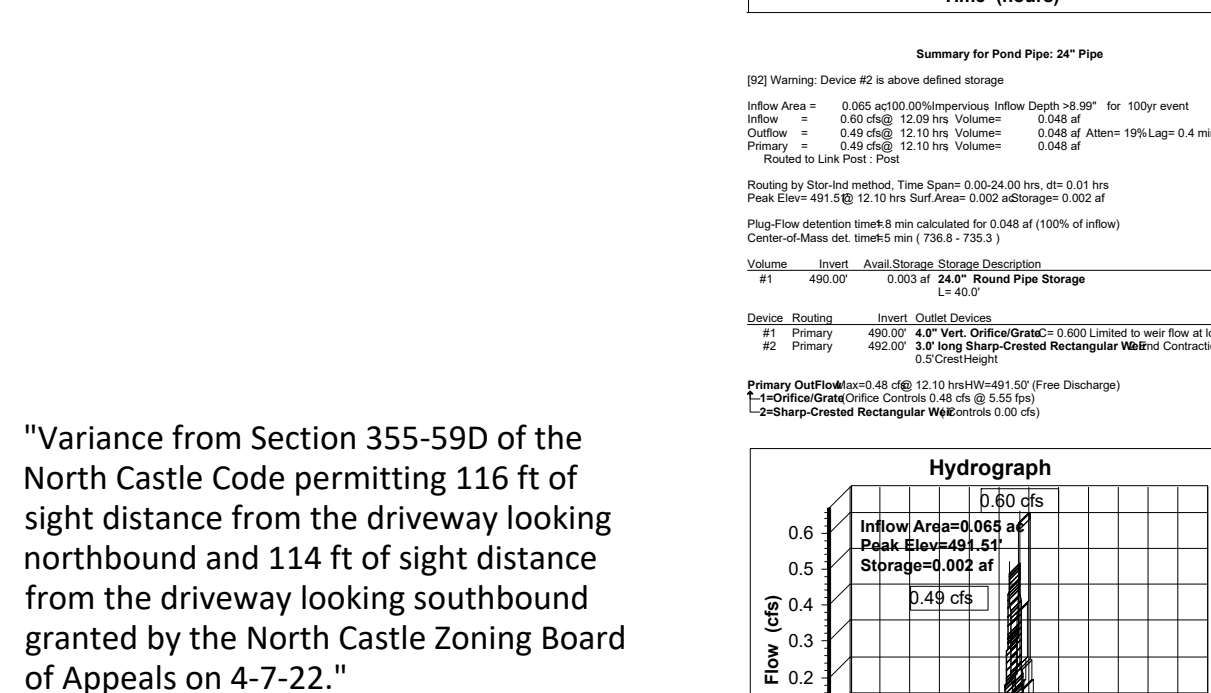
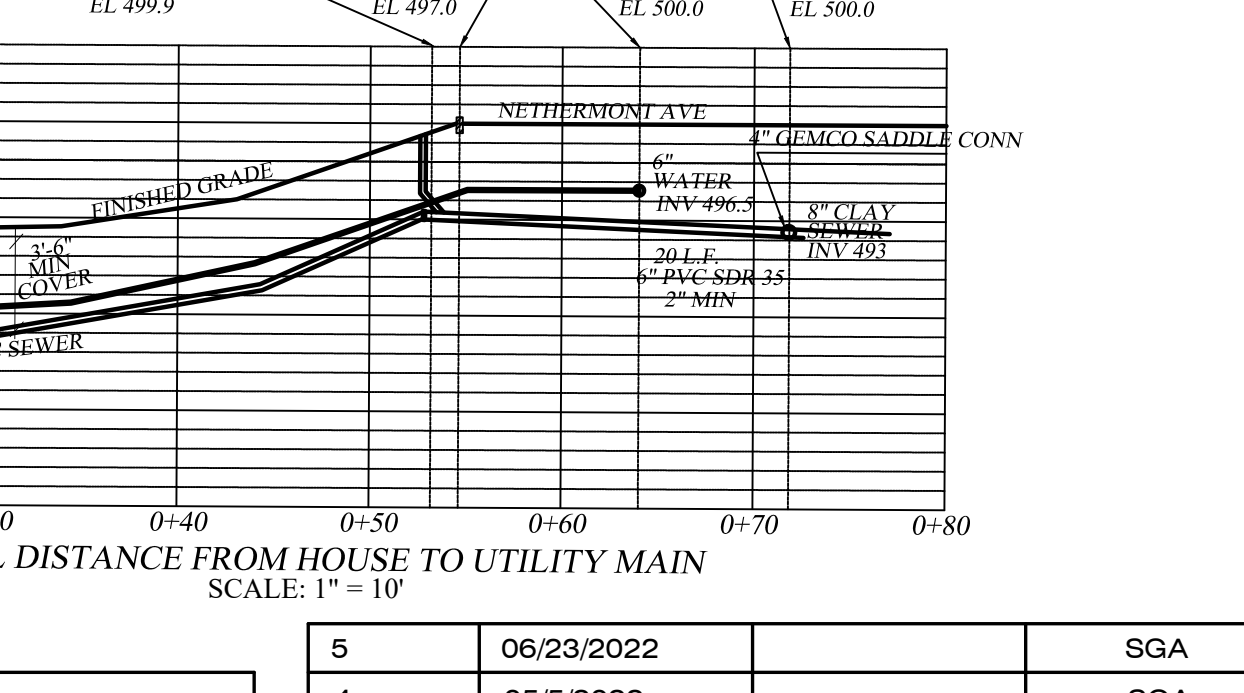
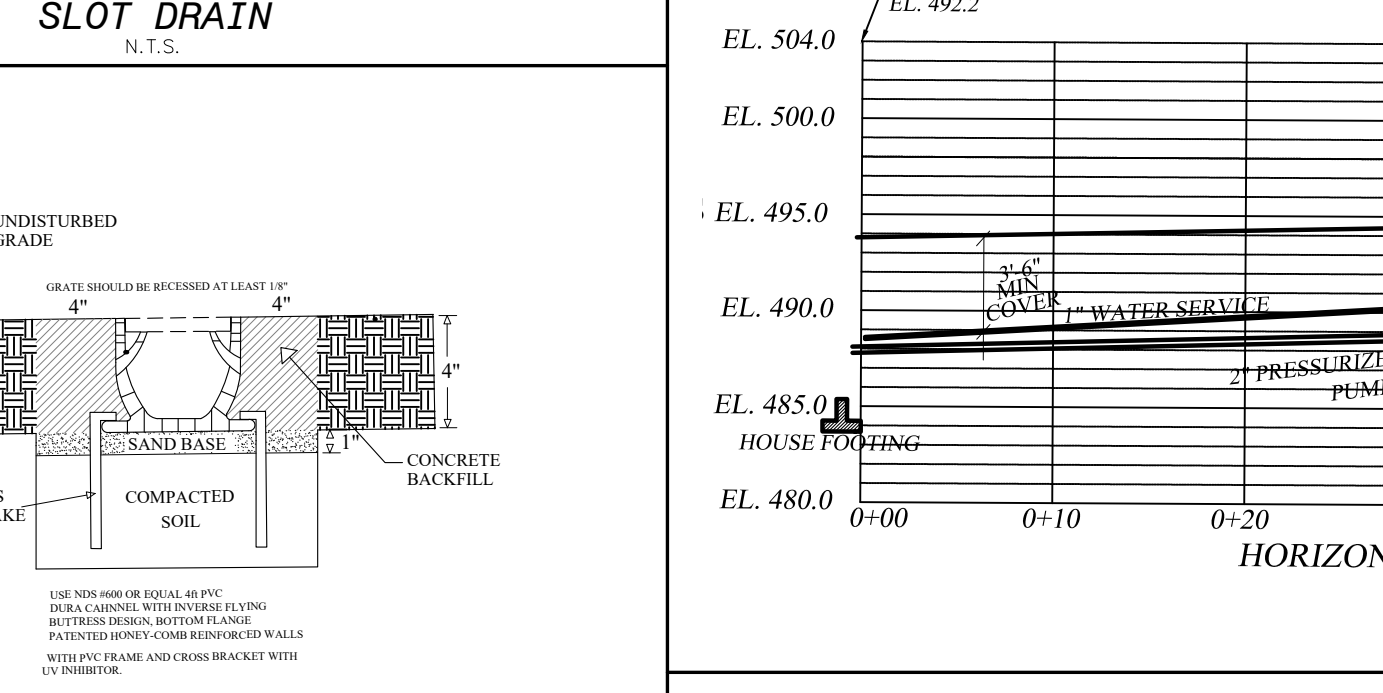
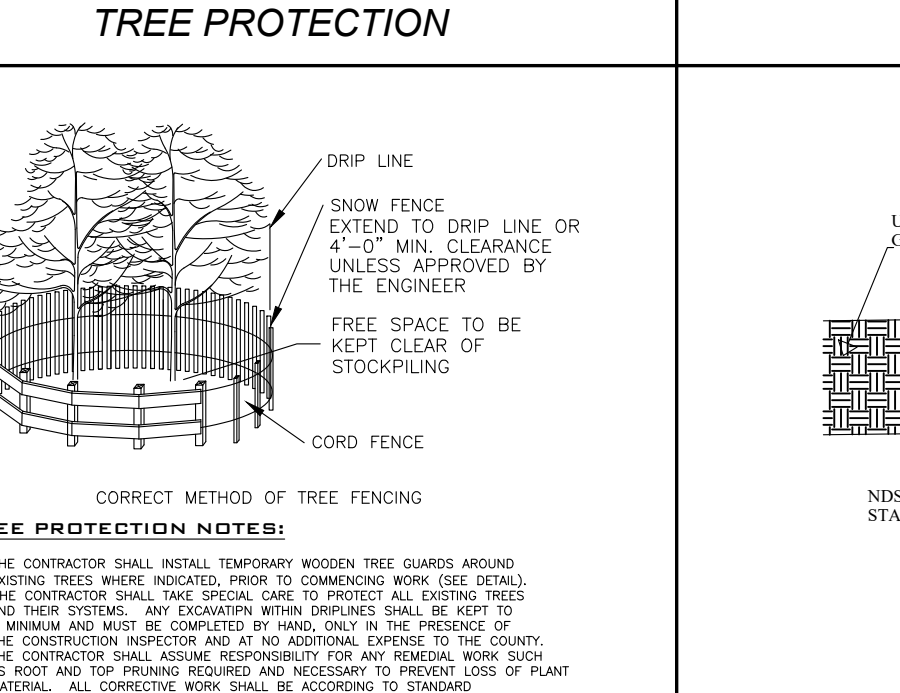
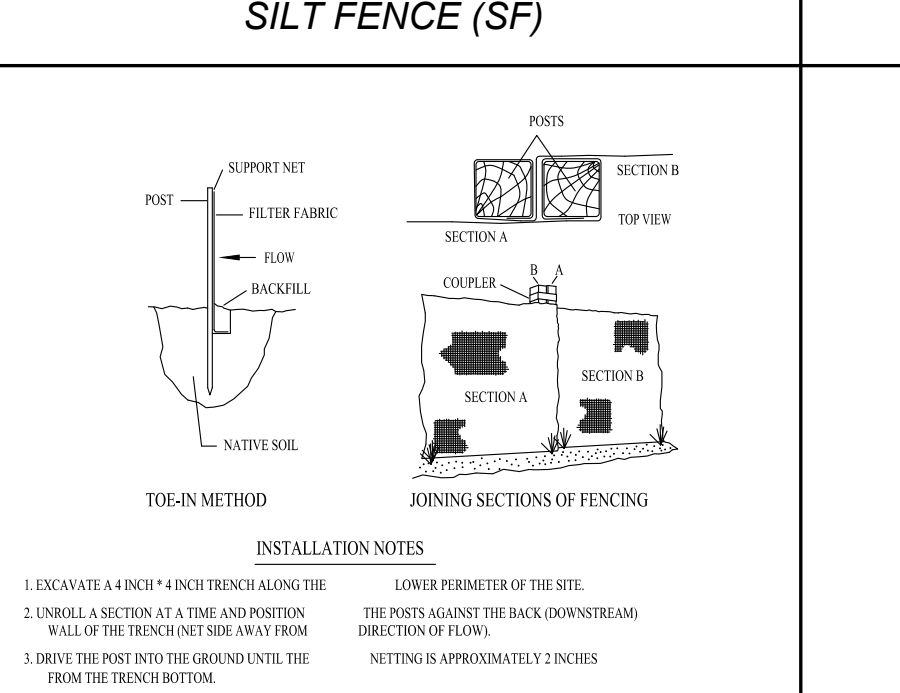
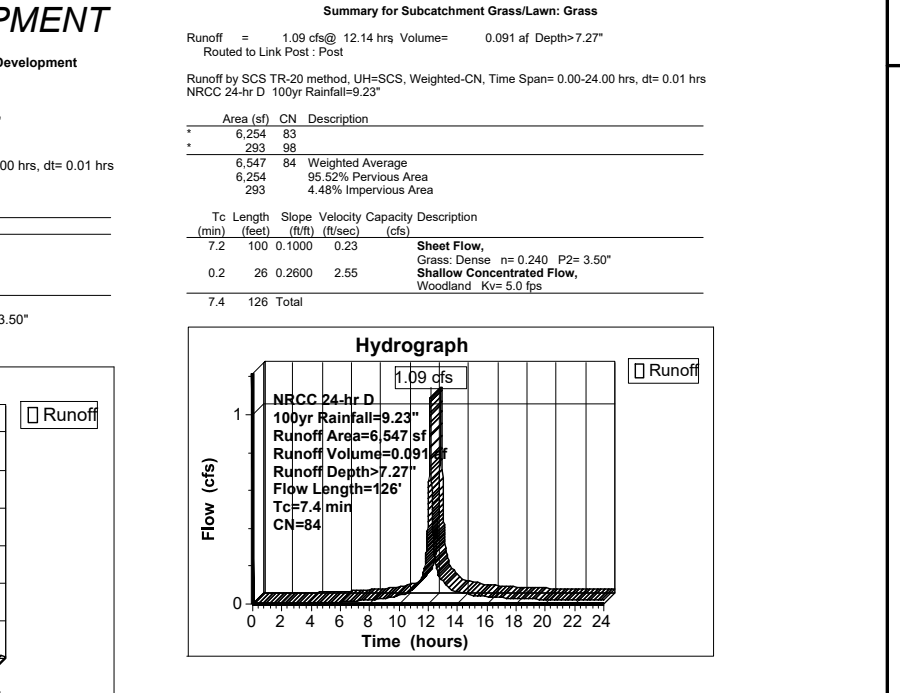
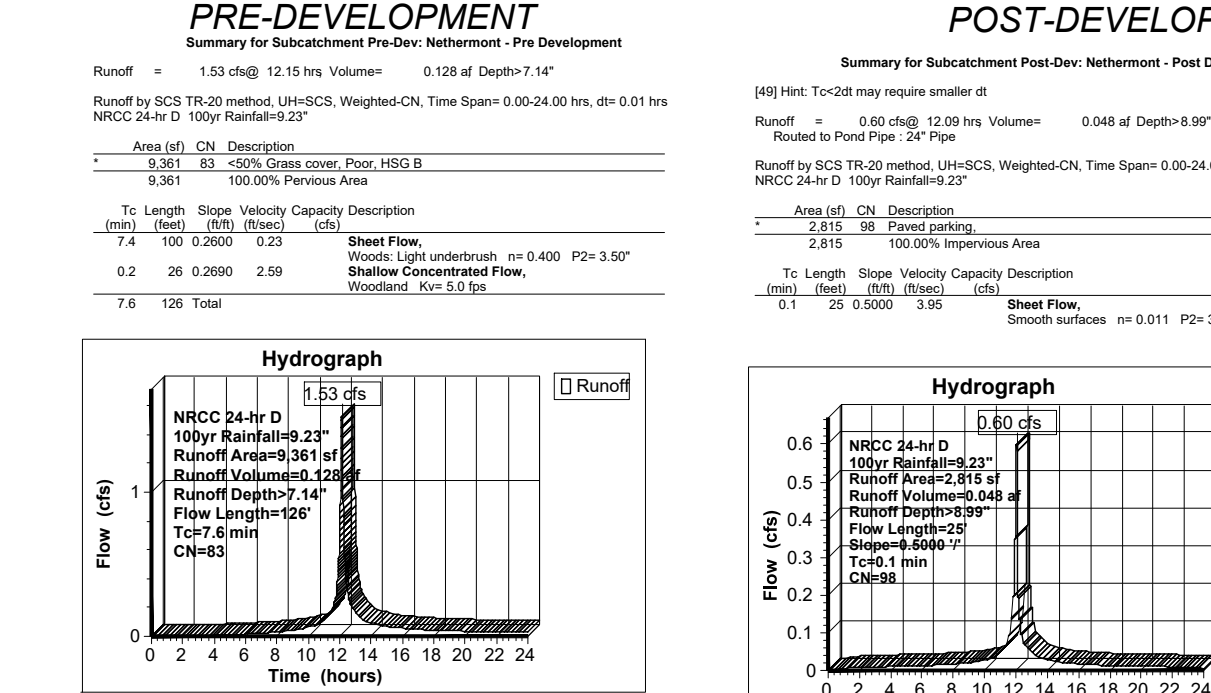
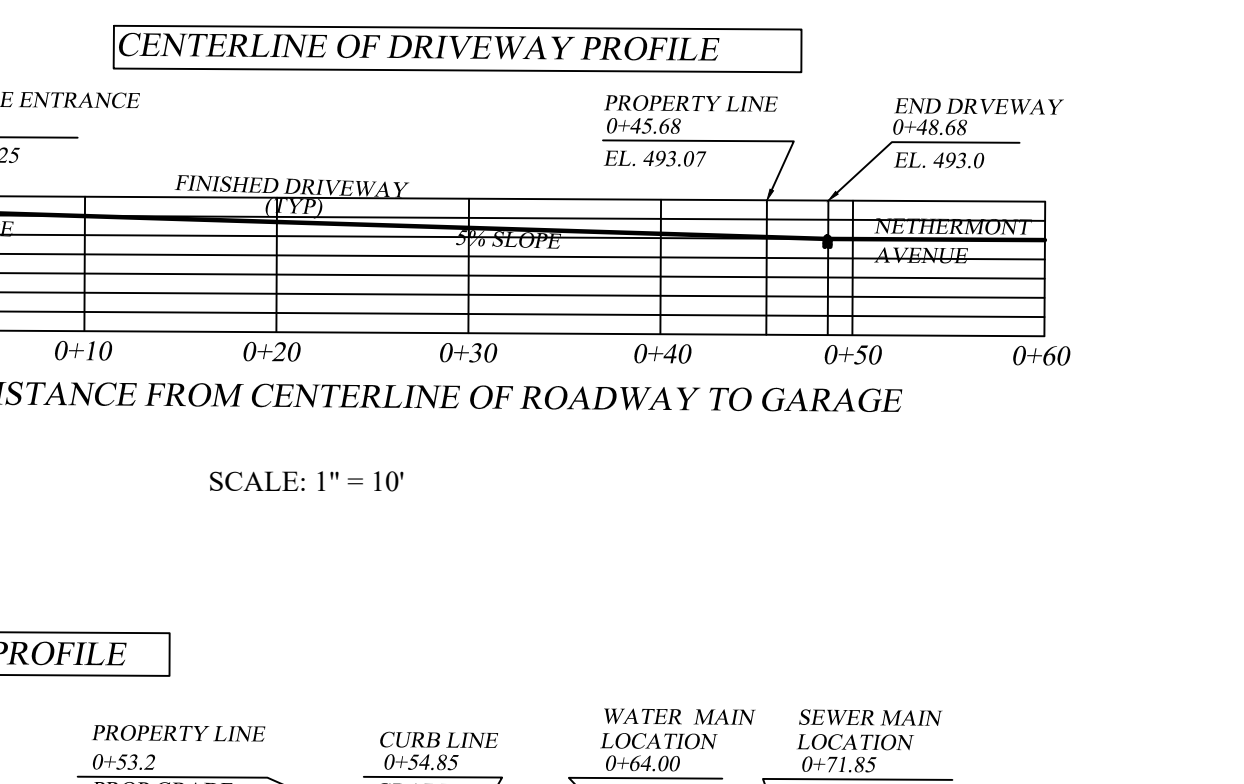
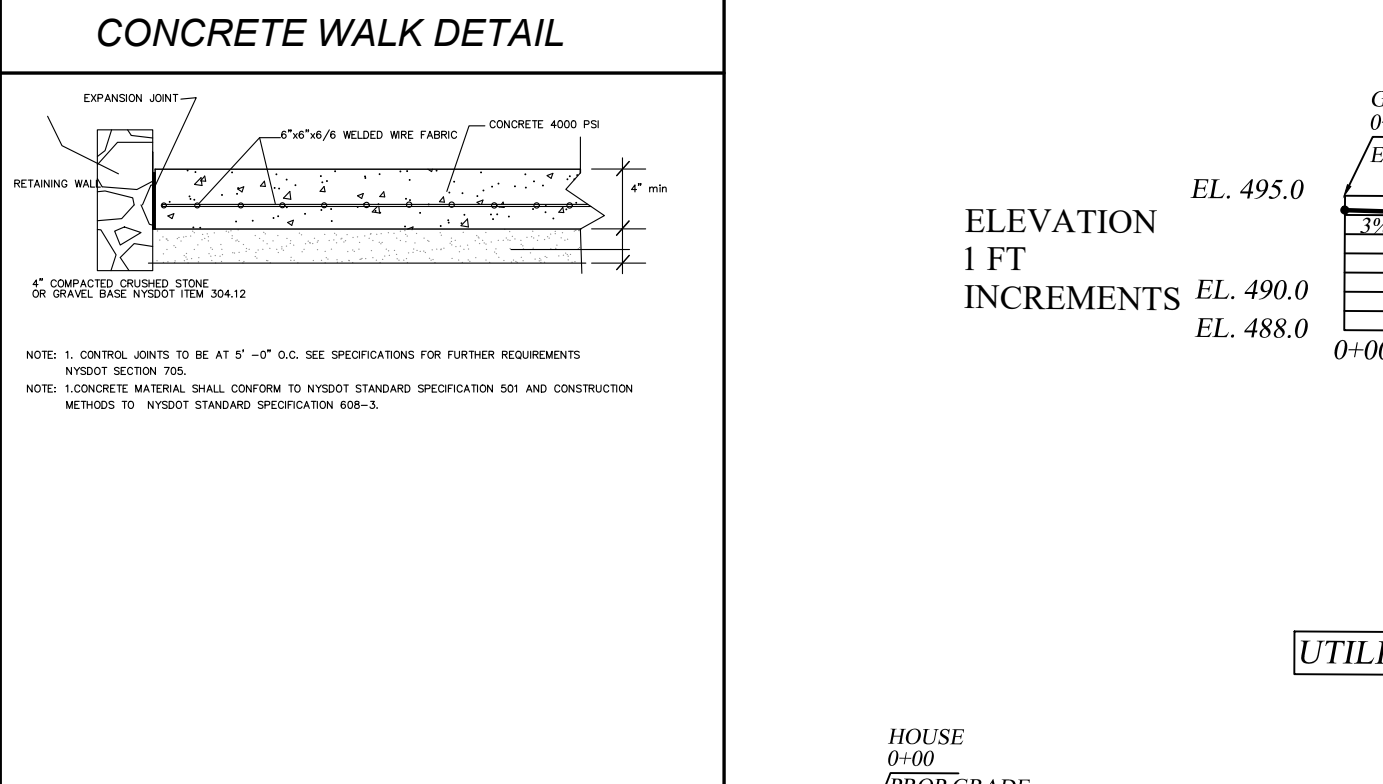
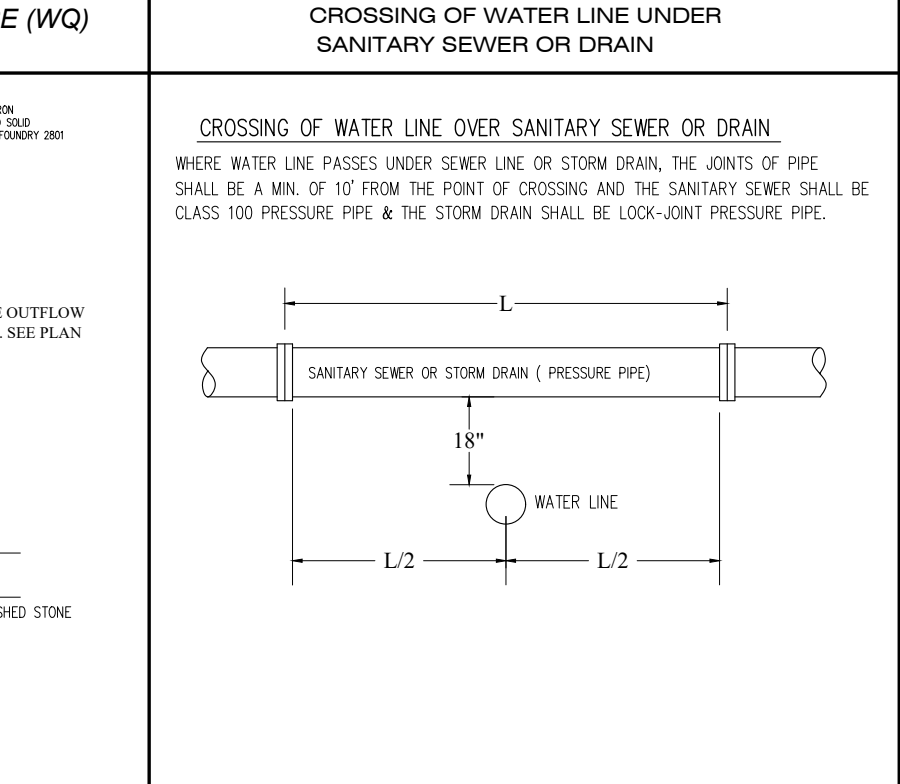
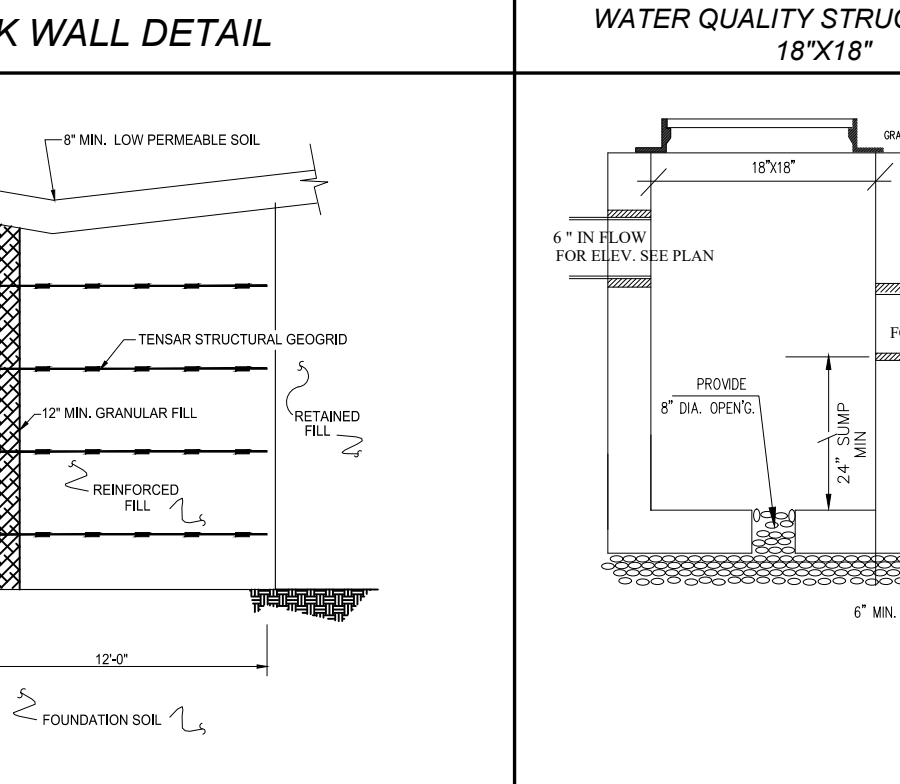
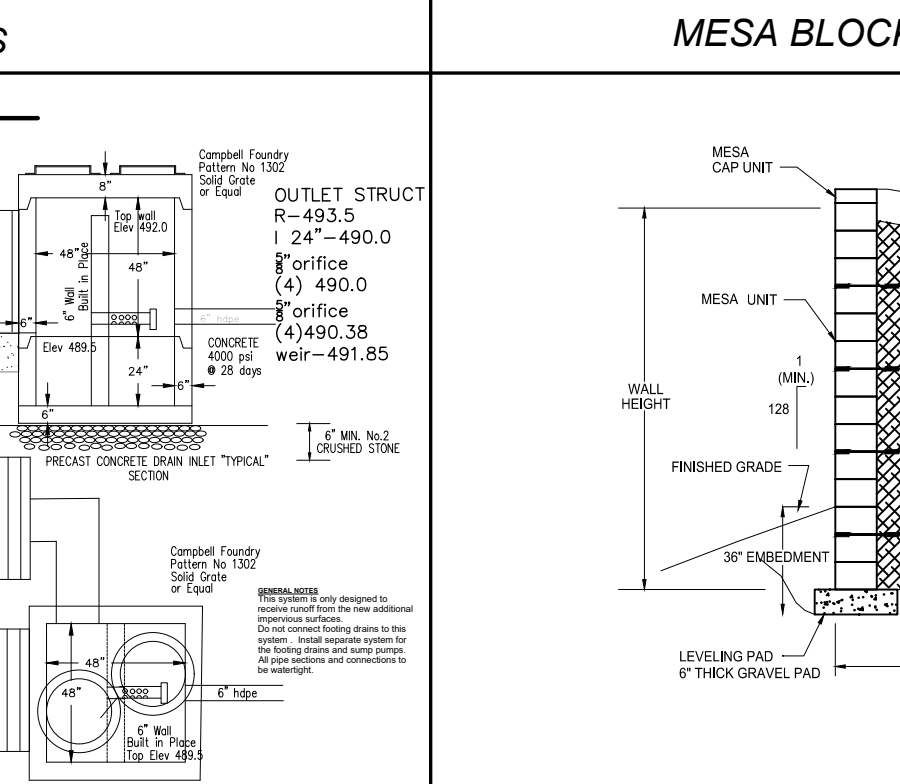
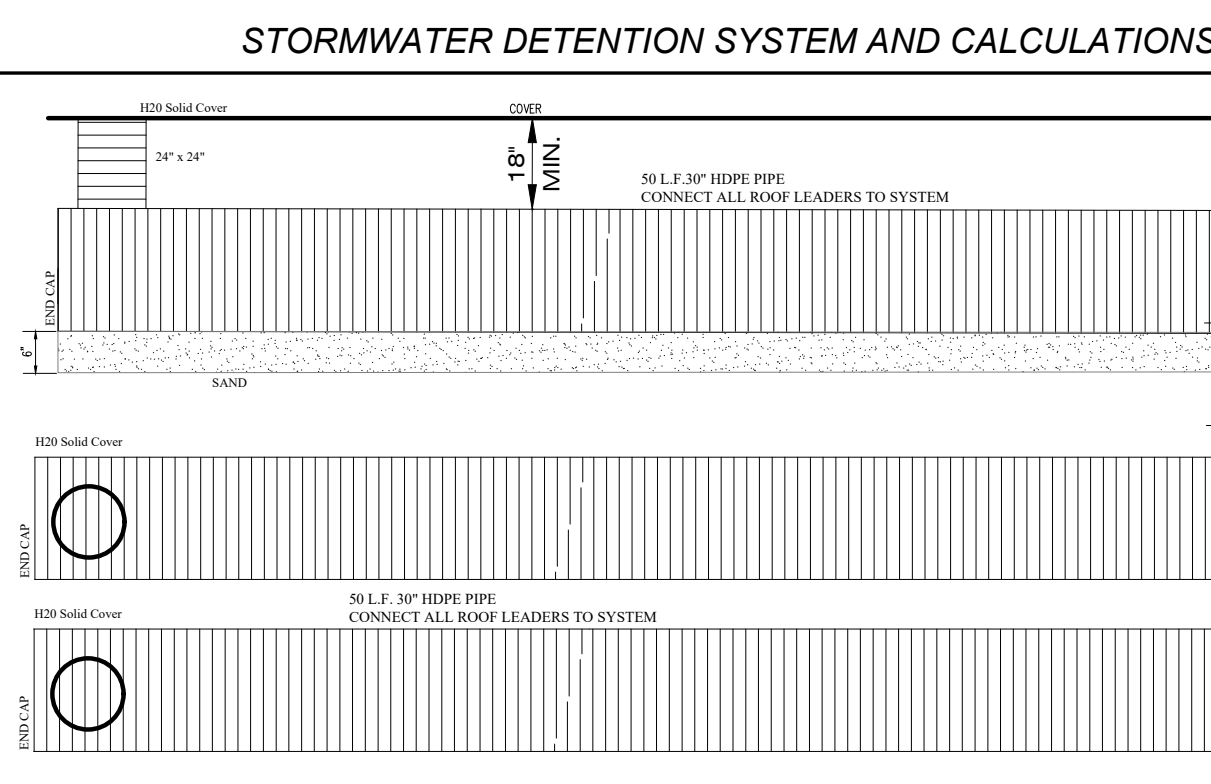
NOTE: 1. The base course shall consist of compacted 3/4" crushed stone.

NOTE: 1. Materials shall be set out and ready to be placed in the trench within 24 hours of the time the trench is excavated. 2. The contractor shall be responsible for the removal of any material that is not to be used in the trench. 3. The contractor shall be responsible for the removal of any material that is not to be used in the trench.

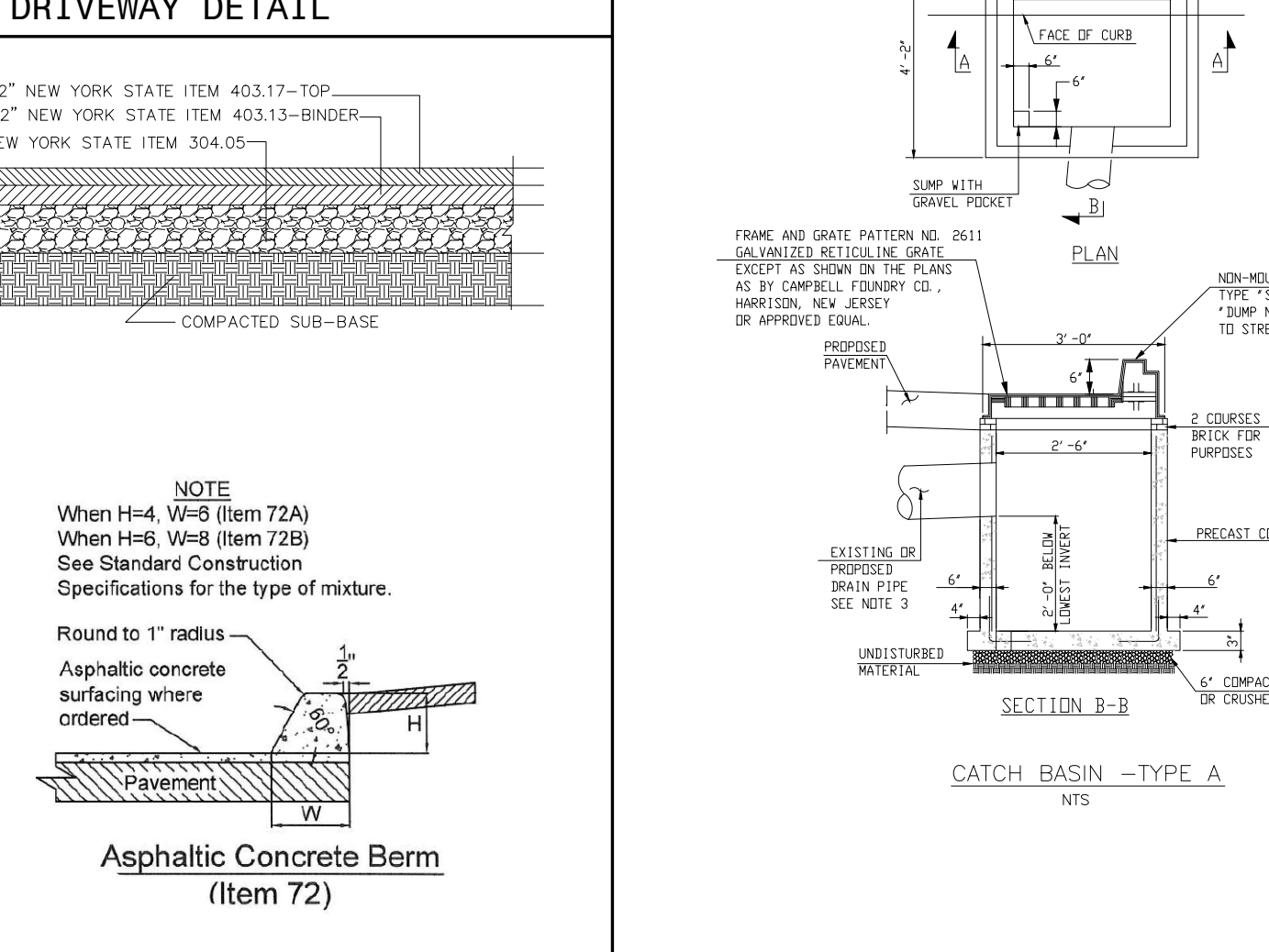
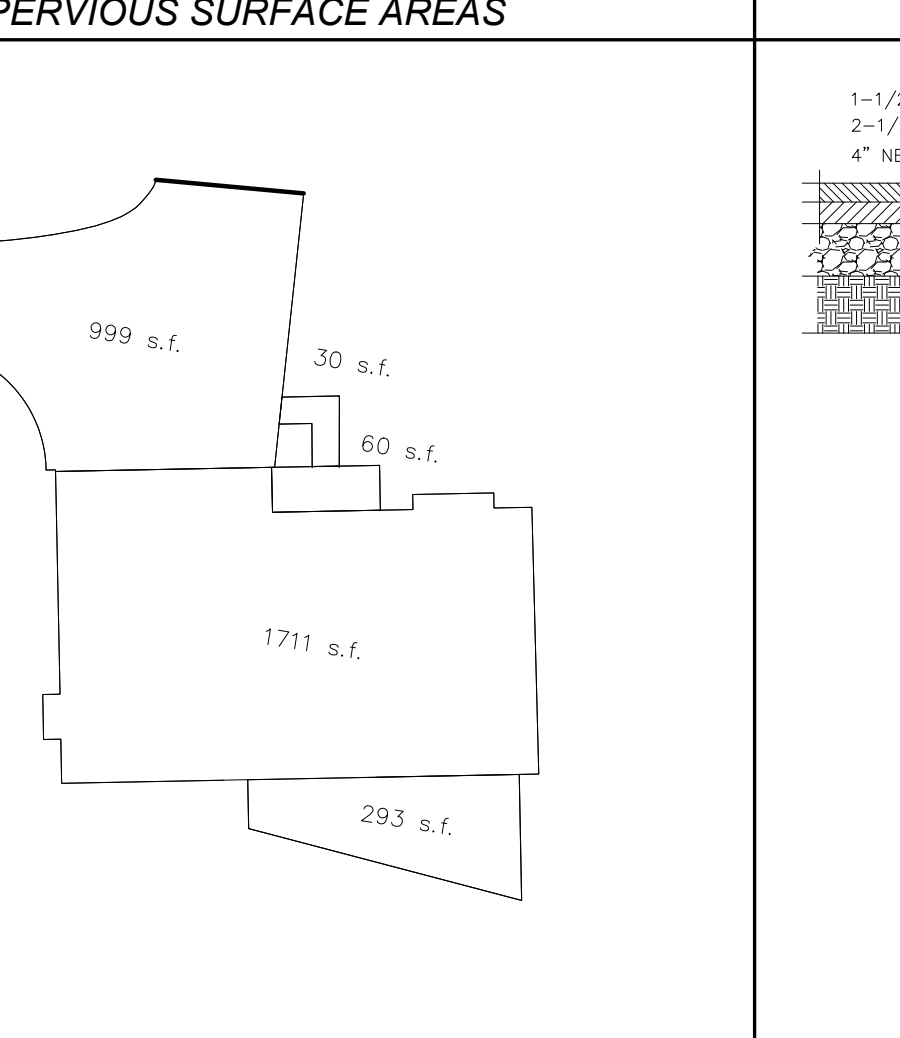
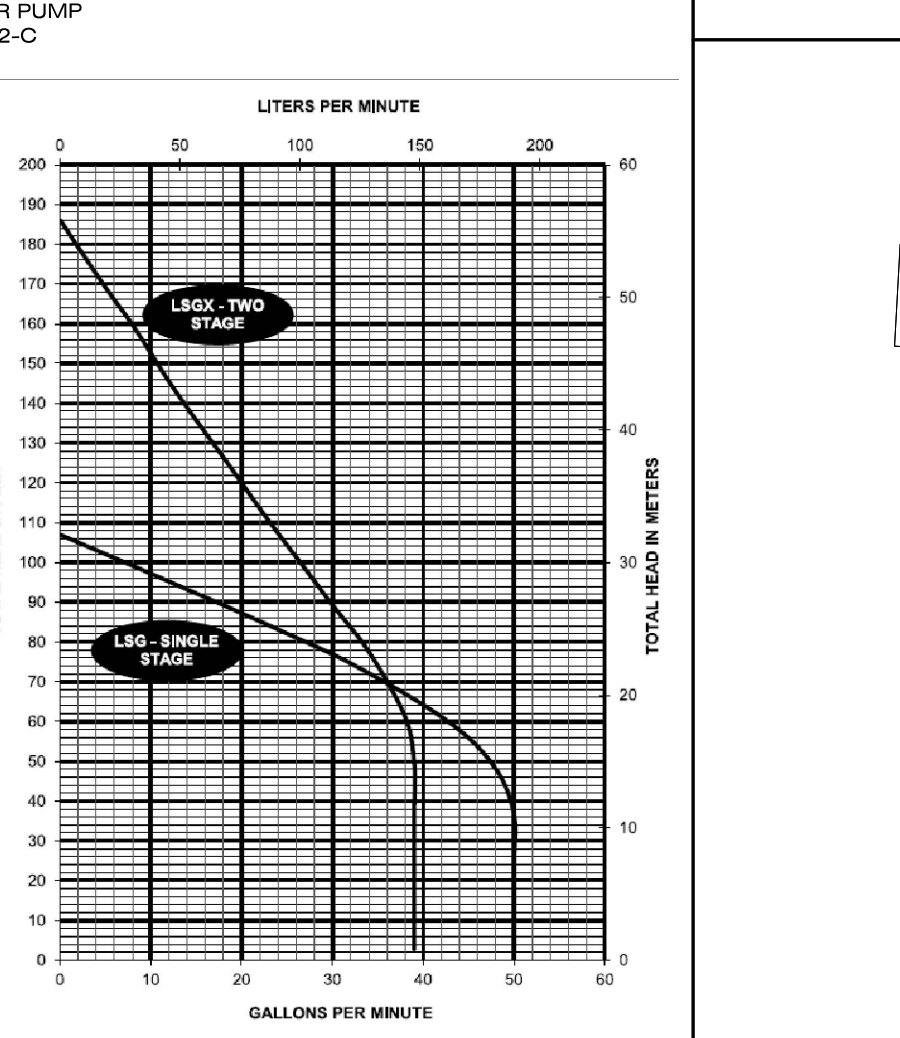
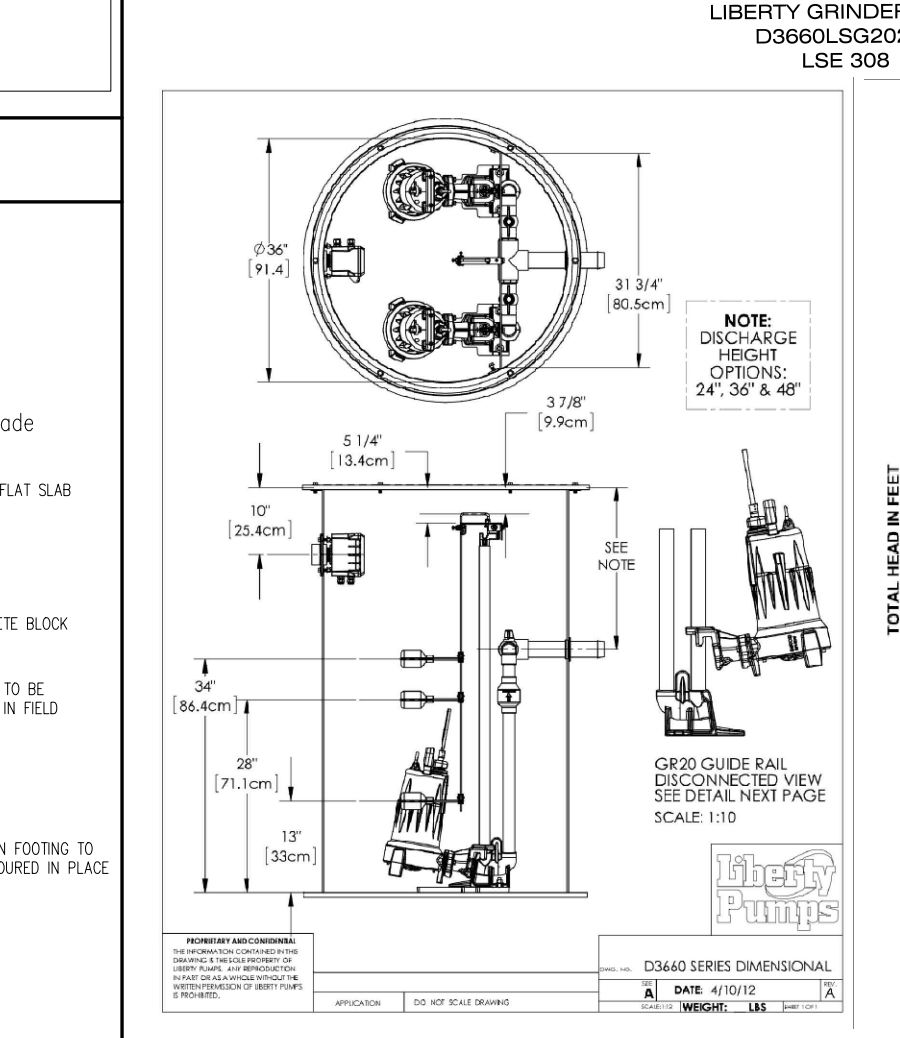
NOTE: When Temporary Pavement is to be placed over CDBM Control Density Backfill Material shall be extended to bottom of Temporary Pavement layer. Refer to Contract Documents for additional information.

GENERAL NOTES: 1. See Contract Documents for the type of trench backfill required. 2. No direct payment to be made for Select Fill or Controlled Density Backfill Material. Cost to be included in the various items bid. (See Contract Documents.) 3. For HDPE pipe refer to "Trench Backfill", Page 3 of 3.

NOTE: Curb Stop and Corporation Stop to be Mueller or equal. Crushed Stone Bedding to be used to support Copper Pipe in trench area.



"Variance from Section 355-59D of the North Castle Code permitting 116 ft of sight distance from the driveway looking northbound and 114 ft of sight distance from the driveway looking southbound granted by the North Castle Zoning Board of Appeals on 4-7-22."



5	06/23/2022		SGA
4	05/5/2022		SGA
3	04/11/2021	PB COMM	GC
2	03/06/2021	REMOVE PUMP SYSTEM	GC
1	12/11/2020	RPCC DET LETTER	GC
NO			

REVISIONS

STORMWATER POLLUTION PREVENTION PLAN & EROSION CONTROL

PREPARED FOR: DINO DELAURENTIS

ADDRESS: 21 NETHERMONT AVE

NORTH CASTLE, NY (WHITE PLAINS P.O.)

TAX ID: SECTION 122.16 - TAX BLOCK 4 - LOT 41

SITUATED IN THE TOWN OF NORTH CASTLE WESTCHESTER COUNTY, NEW YORK

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GABRIEL E. SENOR, P.C. CONSULTING ENGINEER LAND SURVEYORS 90 NORTH CENTRAL AVE., HARTSDALE, NEW YORK, 10530 (914) 422-0070 FAX 422-3009

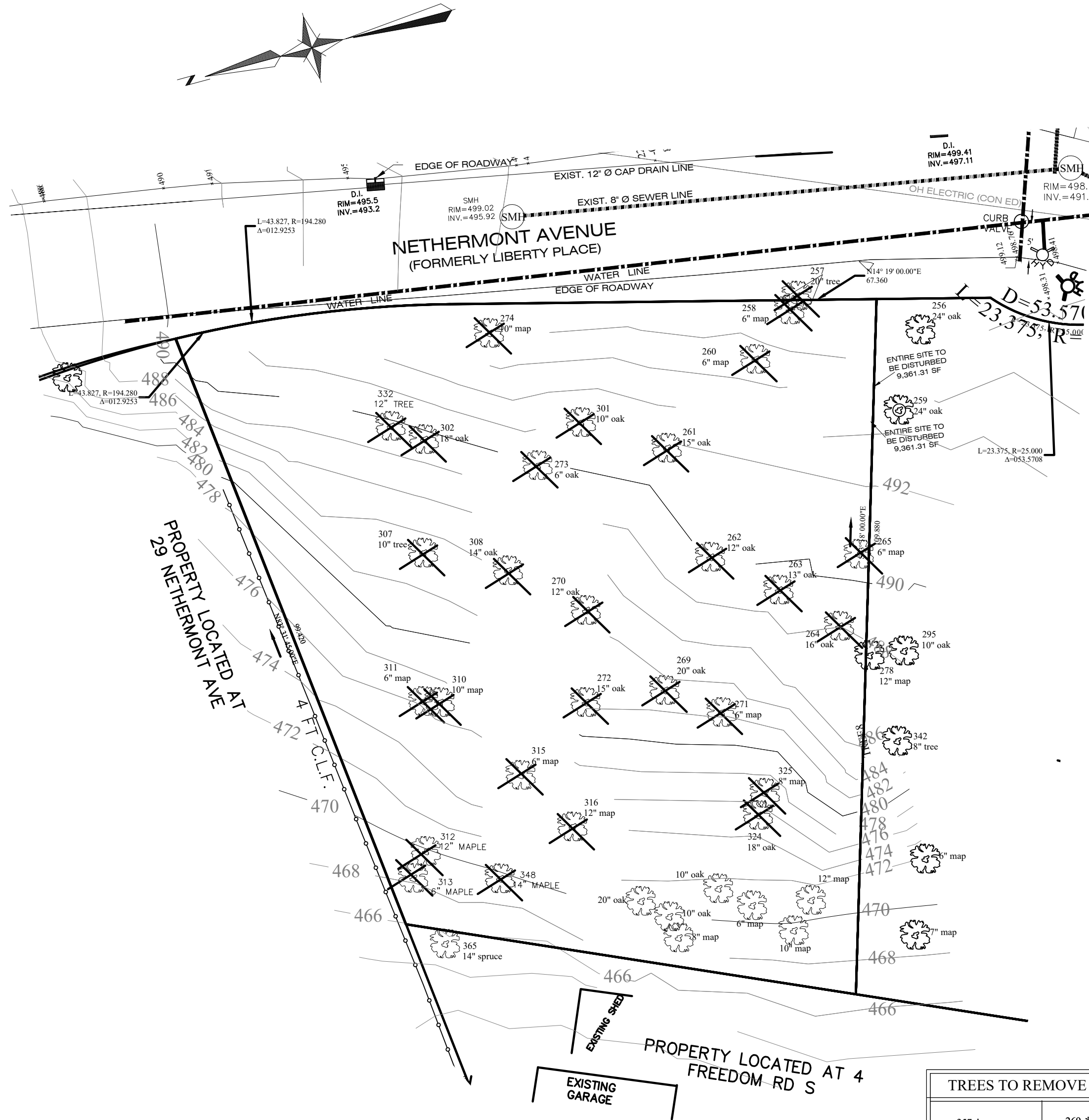
SCALE: as shown DATE: SEPTEMBER 10, 2020 DRAWN BY: GC CHECKED BY: ES.

SW-4

SHEET 4 of 6

SYMBOLS LEGEND

- CATCH BASIN
- DRAIN INLET
- UTILITY POLE
- SIGN POST
- ⊗ HYDRANT
- WATER VALVE
- GAS VALVE
- LIGHT POLE
- TRAFFIC POLE
- ⊙ TELE. MANHOLE
- ⊙ ELECTRIC BOX
- ⊙ SEWER MANHOLE
- ⊙ WATER MANHOLE
- ⊙ ELECTRIC MANHOLE
- ⊙ DRAIN MANHOLE
- ⊙ MANHOLE
- ⊙ MONITORING WELL
- ⊙ VALVE
- ⊙ 14" TREE
- SIZE
- +242.5 EXIST. ELEV.
- +242.5 PROP'D ELEV.
- ⊙ 14" TREE
- (TO BE REMOVED)
- III - III
- SILT FENCE
- or HAYBALES AS REQ'D



TREES TO REMAIN *
 10" maple

TREES TO REMOVE **			
257 * 20" TR	269 * OAK 20	307 * 10" TR	324 * OAK 18
258 MAPLE 6	270 * oak 12	308 * OAK 14	325 * MAPLE 8
260 MAPLE 6	271 MAPLE 6	310* MAPLE 10	332 * 12" TREE
261 * OAK 15	272 * OAK 15	311 MAPLE 6	348* MAPLE 14
262 * oak 12	273 OAK 6	312* 12" MAPLE	
263 * oak 13	274 * MAPLE 10	313 MAPLE 6	
264* oak 16	301* oak 10	315 MAPLE 6	
265 MAPLE 6	302* oak 18	316* MAPLE 12	

*Town Regulated
 ** Removals due to construction & proposed development including:
 Excavation, trenching, filling, grading, stormwater requirements, etc.

JOB NUMBER: R.O.187-74 CAD 2018

NOTES:

Locations, sizes and descriptions of all utilities are based on field survey location of surface appurtenances and available record plate data. Same is subject to scale and method limitations. Exact location for existing service installations may require verification by the respective utility companies (call 800-962-7962) and by excavation. The location, material and size of existing underground improvements or encroachments hereon are not certified underground routing cannot be guaranteed. Exact connections for existing service installations may require verification by excavation or dye testing. Such tests will be subject to additional fee based on time. Underground utilities may not always follow a straight line between surface appurtenances and should be confirmed by excavation and the respective companies. Please note that there are usually no utility company records of the location of on-site utilities connections.

NO.	DATE	BY
2	06/27/2022	SGA
1	06/15/2022	SGA

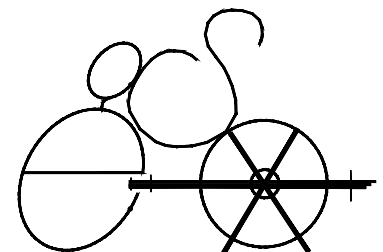
**EXISTING CONDITIONS,
 TOPOGRAPHICAL SURVEY,
 TREE REMOVALS**

TAX ID: SECTION 122.16 BLOCK
 4 LOT 7
 AS SHOWN ON THE OFFICIAL TAX MAP OF
 NORTH CASTLE
 LOCATED IN THE
 TOWN OF NORTH CASTLE
 P.O. BOX: WHITE PLAINS, NY
 WESTCHESTER COUNTY, NEW YORK.

GABRIEL E. SENOR, P.C.
 CONSULTING ENGINEER • LAND SURVEYORS
 90 NORTH CENTRAL AVE., HARTSDALE, NEW YORK, 10530
 (914) 422-0070 FAX 422-3009



SCALE: 1" = 15'
 DATE: OCTOBER 03, 2021
 DRAWN BY: GC
 CHECKED BY: ES.



GABRIEL E. SENOR, P.C.
 Engineer & Surveyor

90 NORTH CENTRAL AVE. HARTSDALE, NEW YORK 10530
 (914) 422-0070

SYMBOLS LEGEND

- CATCH BASIN
- DRAIN INLET
- UTILITY POLE
- SIGN POST
- ⊗ HYDRANT
- WATER VALVE
- GAS VALVE
- LIGHT POLE
- TRAFFIC POLE
- TELE. MANHOLE
- ⊗ ELECTRIC BOX
- SEWER MANHOLE
- WATER MANHOLE
- ELECTRIC MANHOLE
- DRAIN MANHOLE
- MANHOLE
- MONITORING WELL
- VALVE
- 14 TREE
- 1 SIZE
- +242.5 EXIST. ELEV.
- +242.5 PROP'D ELEV.
- 14 TREE
- (TO BE REMOVED)
- III - III - III
- SILT FENCE
- or HAYBALES AS REQ'D

NOTES:

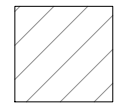
- See Stormwater Plan for Erosion Control Details.
- See Stormwater Plan for Erosion Control notes.
- All Landscaping and Tree Documentation Attached to submittal and provided by licensed Landscape Architect

DEFINITION:

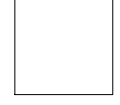
STEEP SLOPE
A natural geographical area, whether on one or more lots, which has a ratio of vertical distance to horizontal distance of 25% or greater over a horizontal area measuring at least 25 feet in all directions.

All Landscape Architecture and Arborist work performed by:
WALTER G. NESTLER P.C.
ISA Certified Arborist No. NY-5737A / ISA # 208644
Landscape Architect ASLA
511 Bolton Avenue
Bronx, New York 10473-2901
Tel: & FAX: (718) 842-5356
e-mail: wgnestler@aol.com

STEEP SLOPE LEGEND

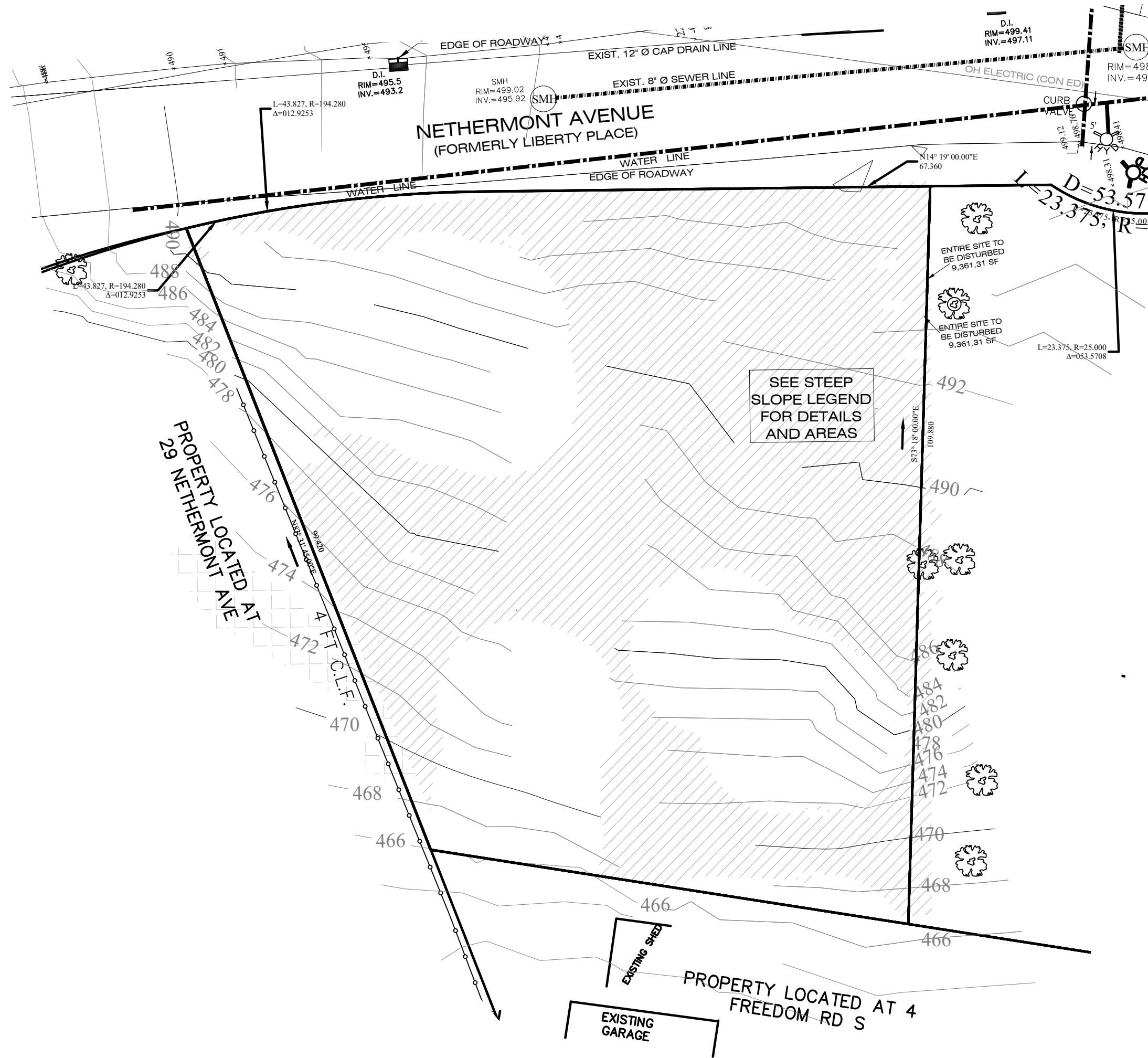


Area that DOES NOT meet the Steep Slope Criteria stated below = 5,730.68 SF



STEEP SLOPE AREA = Area of Slopes having a ratio of vertical distance to horizontal distance of 25% or greater over a horizontal area measuring at least 25 feet in all directions = 3,630.62 SF

ALL STEEP SLOPE AREA WILL BE DISTURBED



JOB NUMBER: R.O.187-74 CAD 2018

NOTES:

Locations, sizes and descriptions of all utilities are based on field survey location of surface appurtenances and available record plate data. Same is subject to scale and method limitations. Exact location for existing service installations may require verification by the respective utility companies (call 800-962-7962) and by excavation. The location, material and size of existing underground improvements or encroachments hereon are not certified underground routing cannot be guaranteed. Exact connections for existing service installations may require verification by excavation or dye testing. Such tests will be subject to additional fee based on time. Underground utilities may not always follow a straight line between surface appurtenances and should be confirmed by excavation and the respective companies. Please note that there are usually no utility company records of the location of on-site utilities connections.

3	06/15/2022		SGA
2	04/11/2021	PB Comments	GC
1	12/11/2020	FPRC DET. LETTER	GC

EXISTING CONDITIONS, TOPOGRAPHICAL SURVEY & STEEP SLOPE ANALYSIS

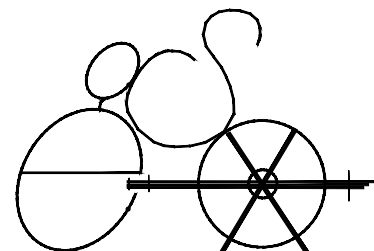
TAX ID: SECTION 122.16 BLOCK 4 LOT 7
AS SHOWN ON THE OFFICIAL TAX MAP OF NORTH CASTLE
LOCATED IN THE TOWN OF NORTH CASTLE
P.O. BOX: WHITE PLAINS, NY
WESTCHESTER COUNTY, NEW YORK.

GABRIEL E. SENOR, P.C.
CONSULTING ENGINEER & LAND SURVEYORS
90 NORTH CENTRAL AVE., HARTSDALE, NEW YORK, 10530
(914) 422-0070 FAX 422-3009



SCALE: 1" = 15'
DATE: SEPTEMBER 10, 2020
DRAWN BY: GC
CHECKED BY: ES.

TS - 1



GABRIEL E. SENOR, P.C.
Engineer & Surveyor

90 NORTH CENTRAL AVE, HARTSDALE, NEW YORK 10530
(914) 422-0070

GENERAL INFORMATION AND NOTES:

- THE SITE REQUIRES APPROXIMATELY 580 +/- C.Y. OF FILL
- THERE IS 18 C.Y. OF FILL PER TRUCK LOAD
- THE SITE REQUIRES APPROXIMATELY 15 TRUCK LOADS OF FILL.
- EACH TRUCK WILL TAKE APPROXIMATELY 8 MINUTES TO DUMP AND PULL OFF.
- 2 FLAG MEN MUST BE PRESENT AT ALL TIMES DURING DELIVERIES OF FILL IN ORDER TO ENSURE NO ISSUES WITH TRAFFIC FROM EITHER DIRECTION (NORTH OR SOUTH) ON NETHERMONT AVE.
- FILL DELIVERIES TO BE PERFORMED BETWEEN THE HOURS OF 10AM AND 2PM WHEN TRAFFIC IS AT ITS MINIMUM.
- PLEASE NOTE, THE FOUNDATION DOES NOT GET POURED UNTIL RETAINING WALLS ARE CONSTRUCTED AND BACK FILLED TO THEIR APPROXIMATE PROPOSED GRADE ELEVATIONS.
- ALL COMPACTION OF THE FILLED AREAS MUST BE IN ACCORDANCE WITH SECTION 203-3.12 OF THE NYS DOT STANDARD SPECIFICATIONS. NOT LESS THAN 90% OF STANDARD PROCTOR MAXIMUM DENSITY SHALL BE ATTAINED AND NOT LESS THAN 95% FOR SUBGRADE AREAS. LIFT THICKNESS AND METHOD OF COMPACTION MUST BE IN ACCORDANCE WITH SECTION 203-3.12 (B) AND APPROVED BY DESIGN ENGINEER ONCE THE COMPACTION EQUIPMENT IS PROVIDED BY THE CONTRACTOR.
- FILL MATERIAL SHALL MEET SPECIFICATIONS AND REQUIREMENTS IN ACCORDANCE WITH CHAPTER 161: FILLING AND GRADING RELATED TO FILL DELIVERY MANIFESTS AND CERTIFICATION THAT THE MATERIAL COMPLIES WITH 6 NYCRR PART 360.

STAGE 1: DIAGRAM A

ASSUMING ALL EROSION CONTROL AND PERMITS/APPROVALS HAVE BEEN OBTAINED, THE FILL DELIVERY/STAGING PLAN IS AS FOLLOWS:

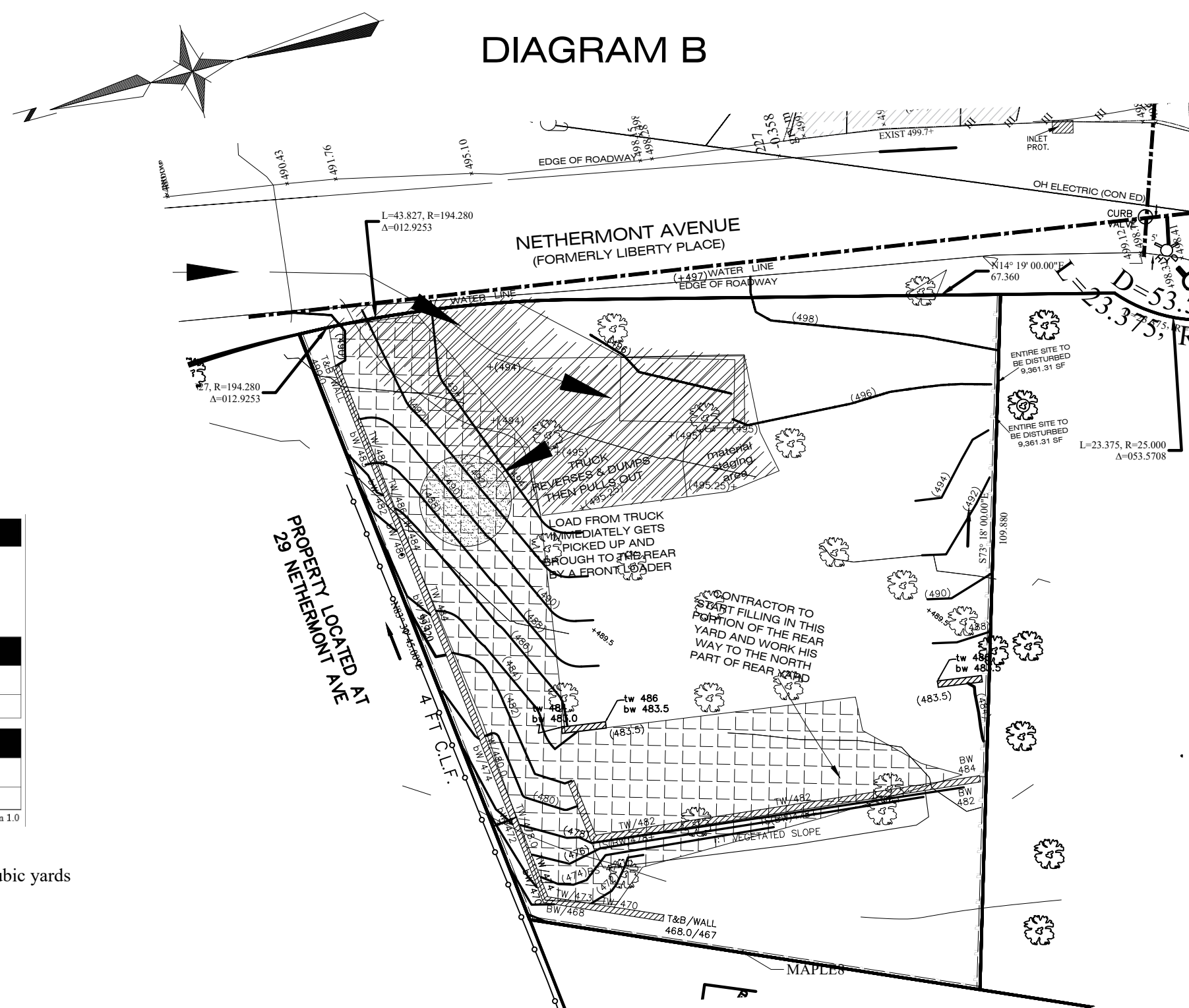
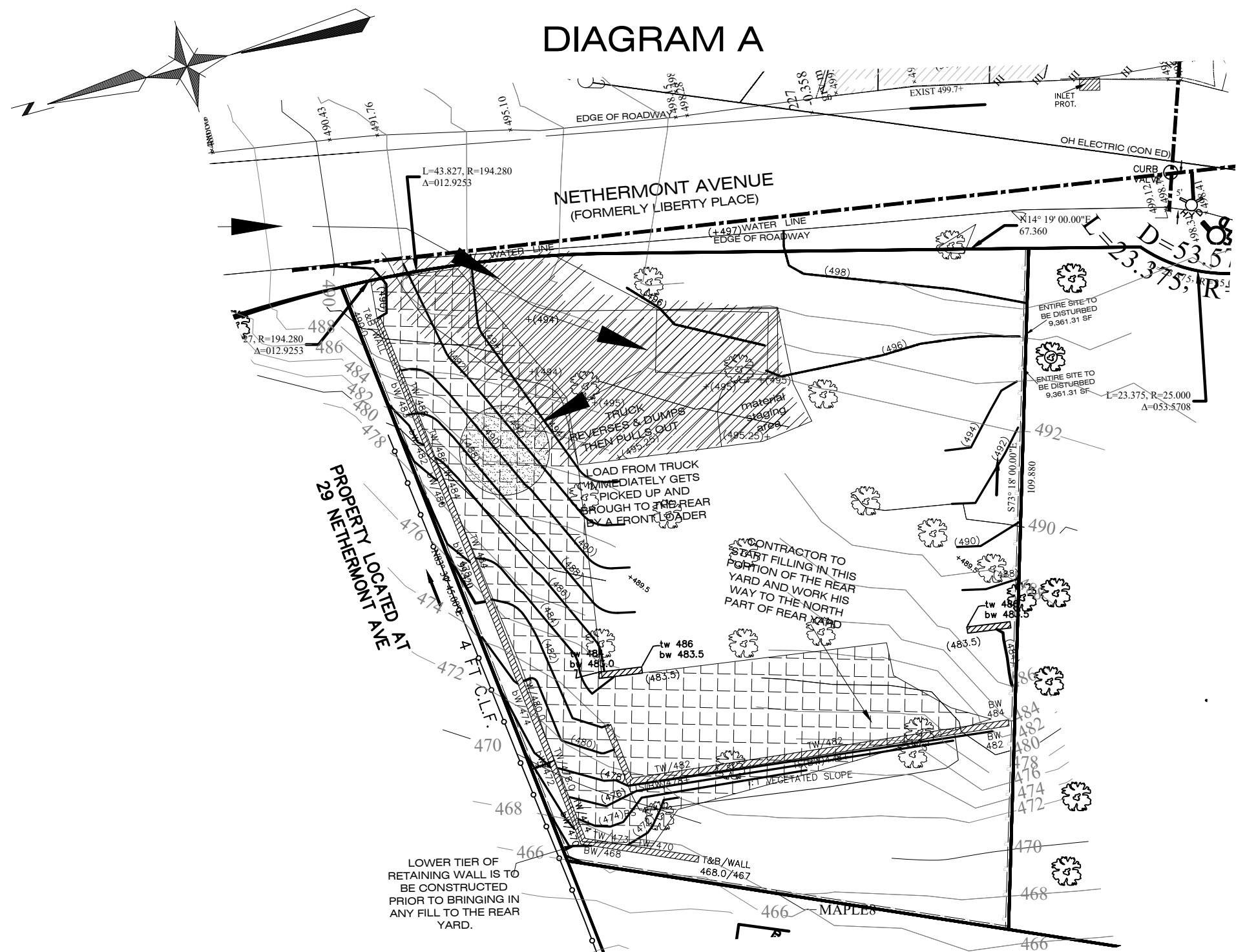
- 1) PERFORM ALL TREE REMOVALS, INCLUDING REMOVAL OF STUMPS.
- 2) BRING 4-5 TRUCK LOADS OF FILL INITIALLY TO LEVEL OUT THE PROPOSED DRIVEWAY AREA WHICH WILL BE USED AS THE TRUCK ENTRANCE/TURN AROUND/DUMPING AREA.
- 3) PREP THE CONSTRUCTION ENTRANCE AREA SHOWN ACCORDING TO THE CONSTRUCTION ENTRANCE DETAIL AND MAKE SURE IT IS STABLE AND FLAT ENOUGH FOR THE DUMP AND DELIVERY TRUCKS TO MANEUVER.
- 4) NEXT THE FIRST TIER OF THE RETAINING WALL WILL BE CONSTRUCTED IN ITS ENTIRETY.
- 5) ON COMPLETION OF THE CONSTRUCTION OF REAR MOST RETAINING WALL, THE FILL DELIVERIES MAY BEGIN, ACCORDING TO DIAGRAM A NOTES.
- 6) AT NO TIME WILL STOCKPILES OF SOIL BE LEFT STAGNANT AT ANY POINT THROUGHOUT THE OPERATION, THE CONTRACTOR IS TO SPREAD THE FILL IMMEDIATELY ON DELIVERY AS DESCRIBED ON THIS PLAN SHEET.

STAGE 2: DIAGRAM B

- 1) THE SECOND TIER OF THE RETAINING WALL WILL BE CONSTRUCTED IN ITS ENTIRETY.
- 2) ON THE COMPLETION OF THE WALL CONSTRUCTION, UTILIZING THE SAME CONSTRUCTION ENTRANCE THAT WAS ESTABLISHED DURING STAGE 1, THE FILL DELIVERIES FOR THE BACKFILL OF THE SECOND TIER OF THE WALL WILL BEGIN.
- 3) AFTER THE DUMP TRUCK PULLS IN WITH THE FILL MATERIAL, AND REVERSES TO DUMP IT IN THE LOCATION SHOWN, A FRONT LOADER OR MACHINE OF THE SITE WORK CONTRACTORS CHOICE WILL BE USED TO MOVE THE MATERIAL TO THE REAR YARD BEGINNING AT THE SOUTH END OF THE REAR YARD AND WORKING THEIR WAY TO THE NORTH END OF THE REAR YARD WITH THE BACK FILL.
- 4) AT NO TIME WILL STOCKPILES OF SOIL BE LEFT STAGNANT AT ANY POINT THROUGHOUT THE OPERATION, THE CONTRACTOR IS TO SPREAD THE FILL IMMEDIATELY ON DELIVERY AS DESCRIBED ON THIS PLAN SHEET.

STAGE 3:

- 1) ON COMPLETION OF STAGE 2, THE CONTRACTOR MAY BEGIN THE FOUNDATION INSTALLATION AND REMAINING FILL AND SITE WORK ASSOCIATED WITH THE SIDE YARDS AND FRONT YARDS OF THE PROPERTY.



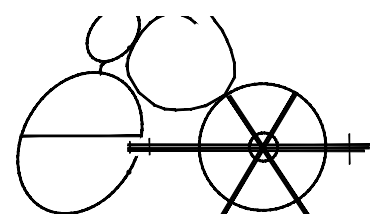
Cut/Fill Report

Generated: 2022-06-14 15:11:01
 By user: steve
 Drawing: P:\DWG Drawings\ALL OTHER\DWG Drawings\ALL OTHER\SGA.dwg

Volume Summary						
Name	Type	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)
Surface14	fill	1.000	1.000	7282.57	129.78	709.82
Totals				2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)
Total				7282.57	129.78	709.82

* Value adjusted by cut or fill factor other than 1.0

Note: Excavation for house foundation is estimated to be approximately 10 cubic yards with the implementation of crawl spaces and foundation pinning.



GABRIEL E. SENOR, P.C.
 Engineer & Surveyor

90 NORTH CENTRAL AVE, HARTSDALE, NEW YORK 10530
 (914) 422-0070

JOB NUMBER: R.O.187-74 CAD 2018

NOTES:

Locations, sizes and descriptions of all utilities are based on field survey location of surface appurtenances and available record plate data. Same is subject to scale and method limitations. Exact location for existing service installations may require verification by the respective utility companies (call 800-962-7962) and by excavation. The location, material and size of existing underground improvements or encroachments hereon are not certified underground routing cannot be guaranteed. Exact connections for existing service installations may require verification by excavation or dye testing. Such tests will be subject to additional fee based on time. Underground utilities may not always follow a straight line between surface appurtenances and should be confirmed by excavation and the respective companies. Please note that there are usually no utility company records of the location of on-site utilities connections.

NO.	DATE	DESCRIPTION	BY
2	06/15/2022		SGA
1	04/11/2021	PB COMM	GC

FILL DELIVERY AND MATERIAL STAGING

TAX ID: SECTION 122.16 BLOCK 4 LOT 7

AS SHOWN ON THE OFFICIAL TAX MAP OF NORTH CASTLE LOCATED IN THE TOWN OF NORTH CASTLE P.O. BOX: WHITE PLAINS, NY WESTCHESTER COUNTY, NEW YORK.

GABRIEL E. SENOR, P.C.

CONSULTING ENGINEER & LAND SURVEYORS
 90 NORTH CENTRAL AVE., HARTSDALE, NEW YORK, 10530
 (914) 422-0070 FAX 422-3009



SCALE: 1" = 20'
 DATE: DECEMBER 11, 2020
 DRAWN BY: GC
 CHECKED BY: ES.

FS - 1

- NOTES:**
- TOPOGRAPHIC DATA USED IN THE SIGHT DISTANCE ANALYSIS WAS TAKEN FROM WESTCHESTER COUNTY GIS
 - ALL STOPPING SIGHT DISTANCE AND LINE OF SIGHT CALCULATIONS SHOWN, WERE PERFORMED BY PROVIDENT DESIGN ENGINEERING, AND ARE ATTACHED AS PART OF THIS SUBMITTAL.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED: _____

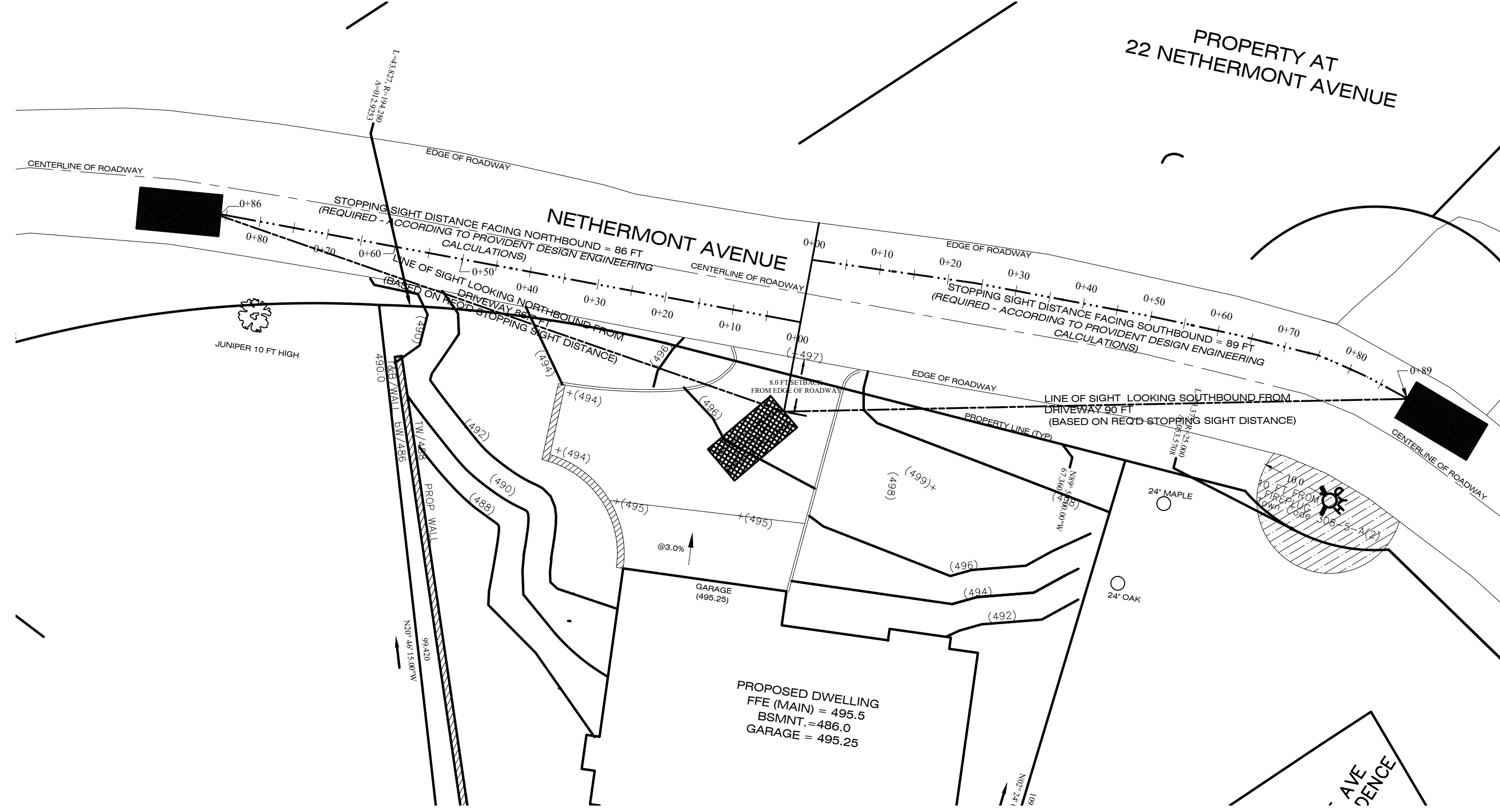
DATE: _____
CHRISTOPHER CARTHY, CHAIRMAN
TOWN OF NORTH CASTLE PLANNING BOARD

ENGINEERING PLANS REVIEWED FOR CONFORMANCE TO RESOLUTION: _____

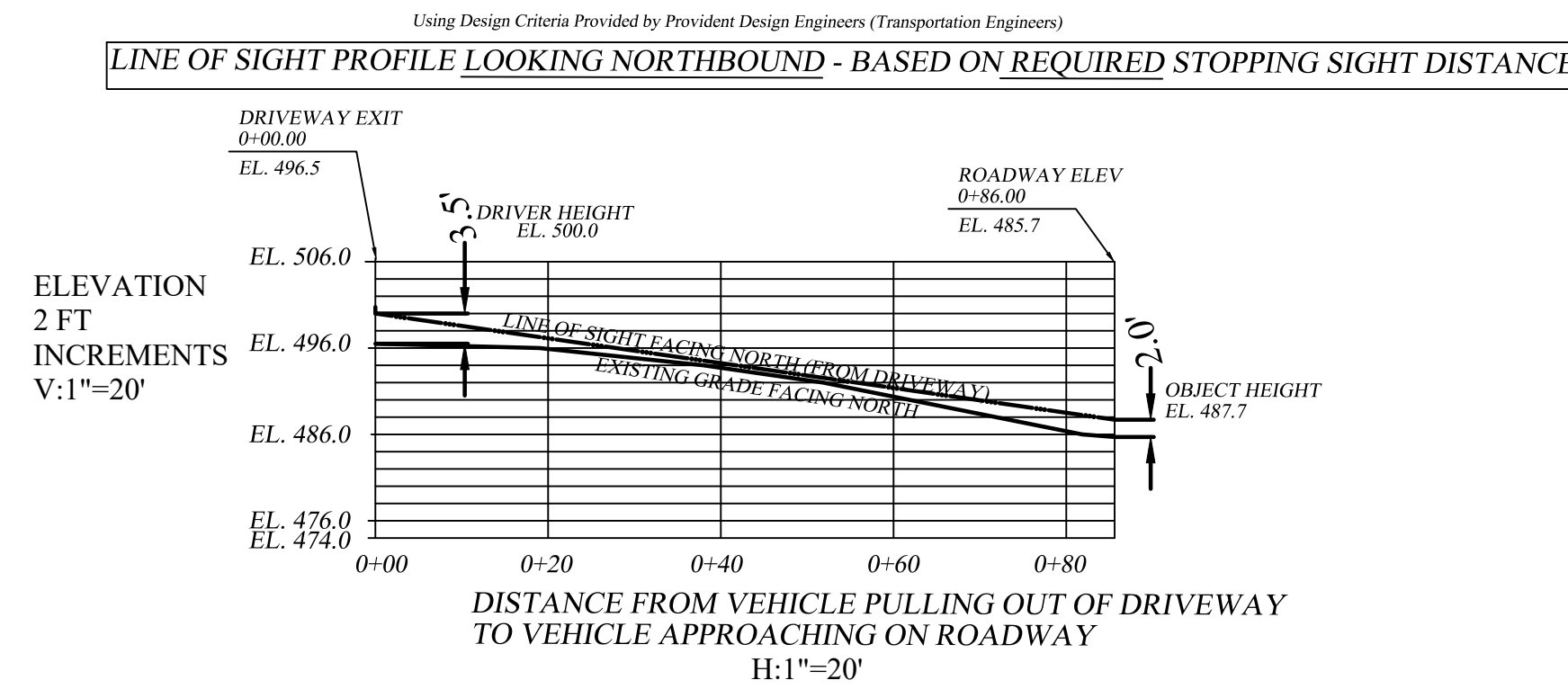
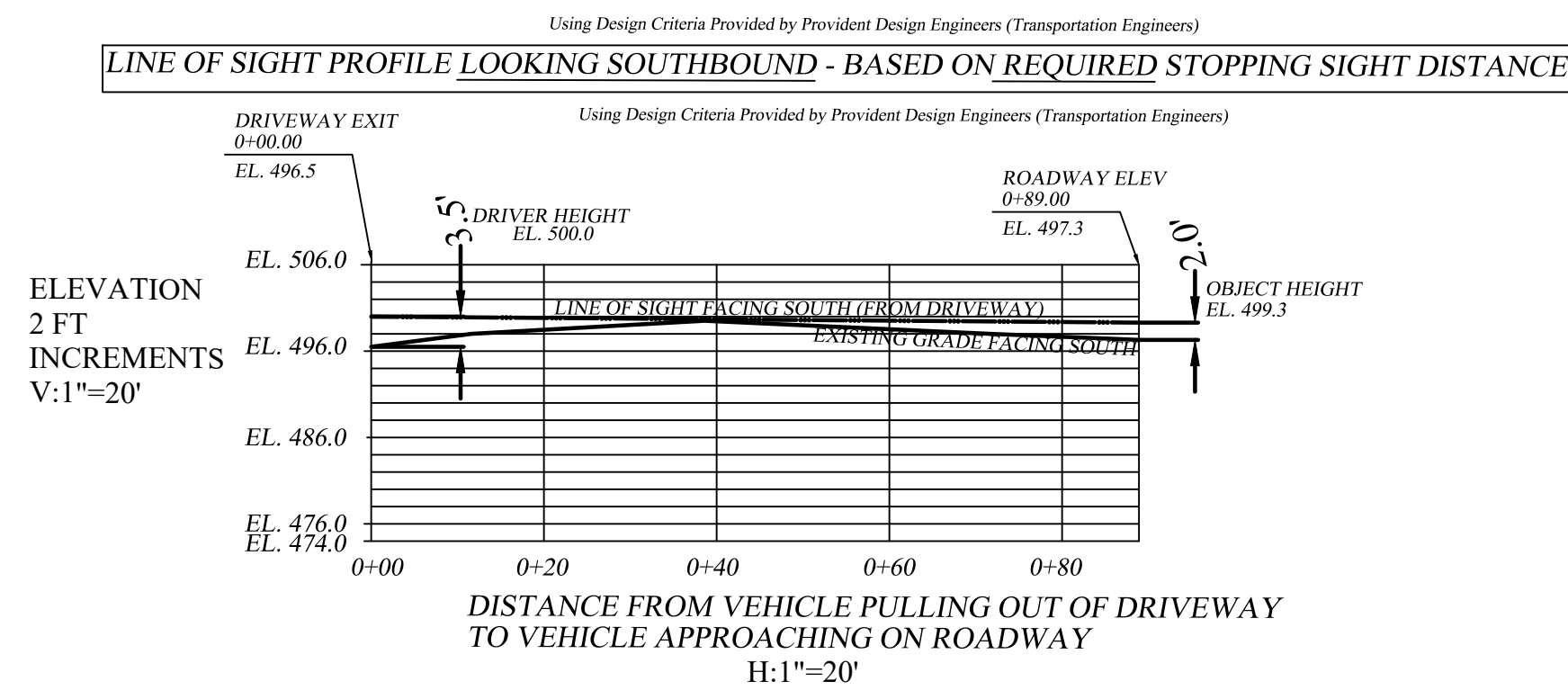
DATE: _____
JOSEPH M. CERMELE, P.E.
KELLARD SESSIONS CONSULTING
CONSULTING TOWN ENGINEERS

"Variance from Section 355-59D of the North Castle Code permitting 116 ft of sight distance from the driveway looking northbound and 114 ft of sight distance from the driveway looking southbound granted by the North Castle Zoning Board of Appeals on 4-7-22."

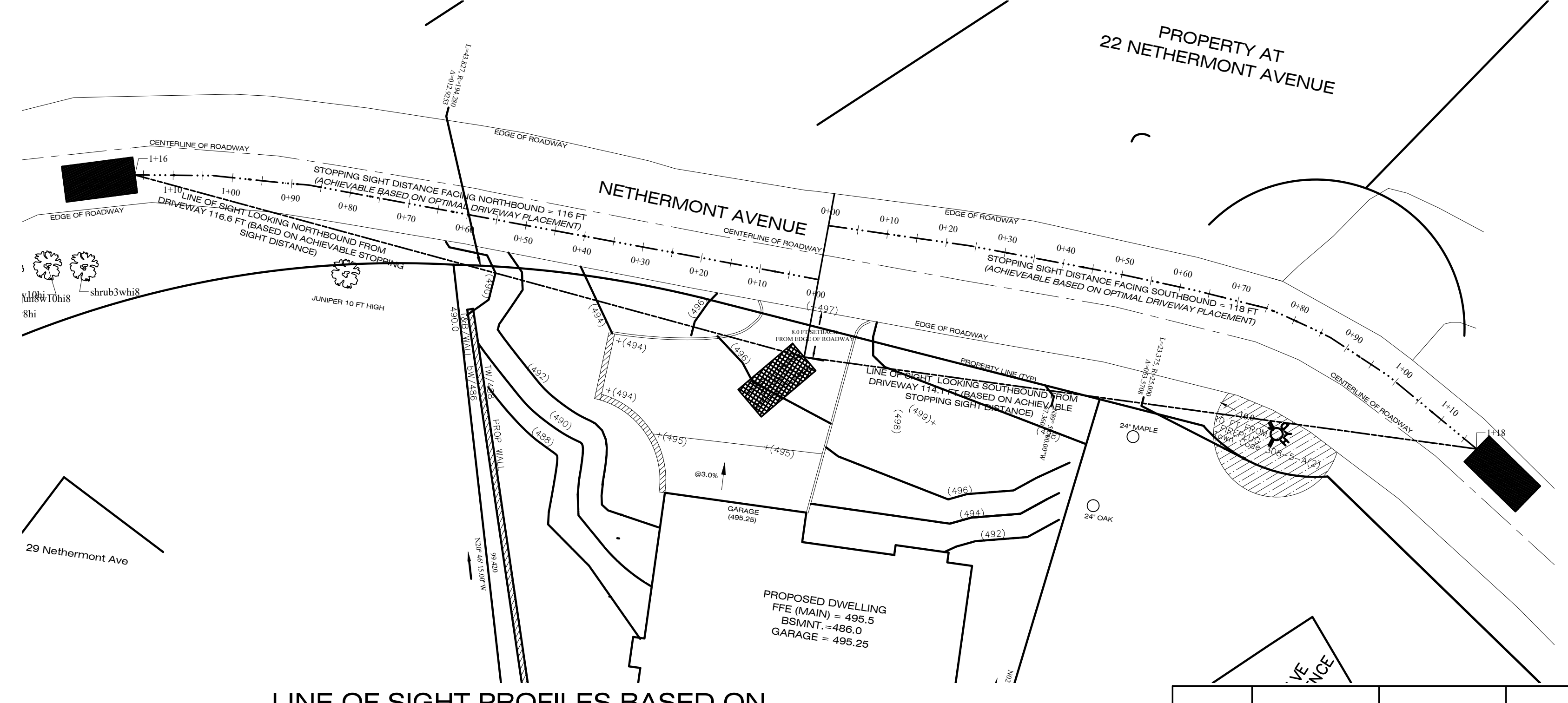
REQUIRED STOPPING SIGHT DISTANCE BASED ON PROVIDENT DESIGN ENGINEERING CALCULATIONS
SCALE: 1" = 15'



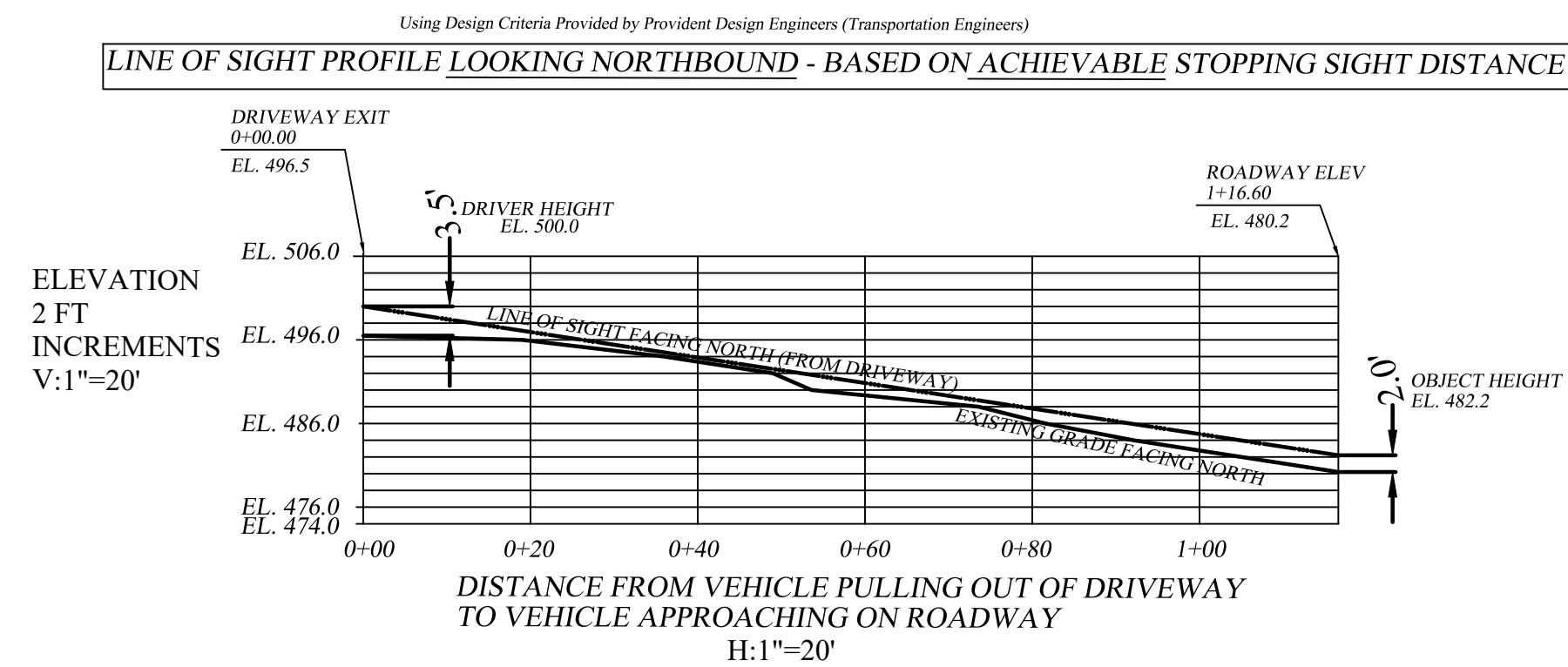
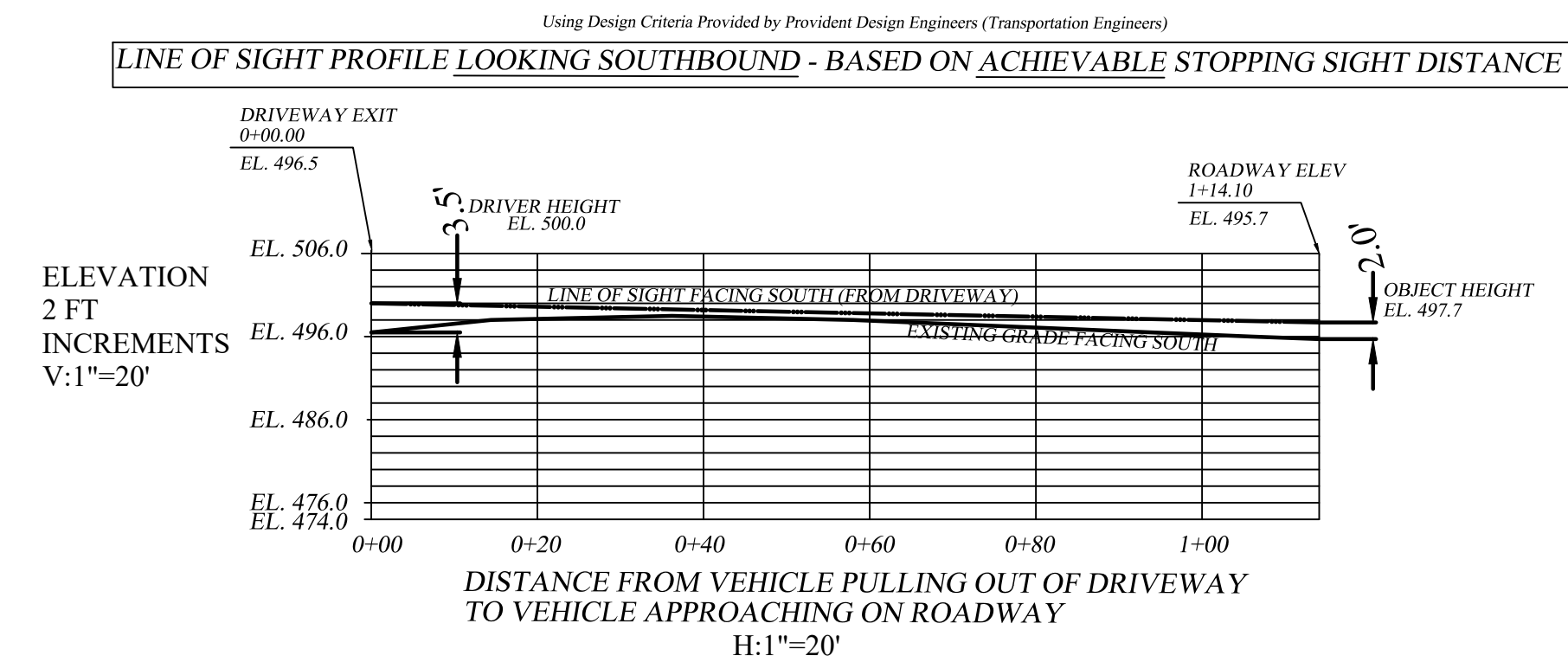
LINE OF SIGHT PROFILES BASED ON REQUIRED STOPPING SIGHT DISTANCE



ACHIEVABLE STOPPING SIGHT DISTANCE BASED ON OPTIMAL DRIVEWAY PLACEMENT
SCALE: 1" = 15'



LINE OF SIGHT PROFILES BASED ON ACHIEVABLE STOPPING SIGHT DISTANCE



NO	DATE	DESC	BY
REVISIONS			

21 NETHERMONT ZBA SIGHT DISTANCE ANALYSIS

PREPARED FOR: DINO DELAURENTIS

ADDRESS: 21 NETHERMONT AVE

NORTH CASTLE, NY (WHITE PLAINS P.O.)

TAX ID: SECTION 122.16 - TAX BLOCK 4 - LOT 41

SITUATED IN THE TOWN OF NORTH CASTLE WESTCHESTER COUNTY, NEW YORK

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CONSULTING ENGINEER AND SURVEYORS
90 NORTH CENTRAL AVE., HARTSDALE, NEW YORK, 10530
• (914) 422-0070 FAX 422-3009

SCALE: AS SHOWN

DATE: OCTOBER 22, 2021

DRAWN BY: GC CHECKED BY: ES.

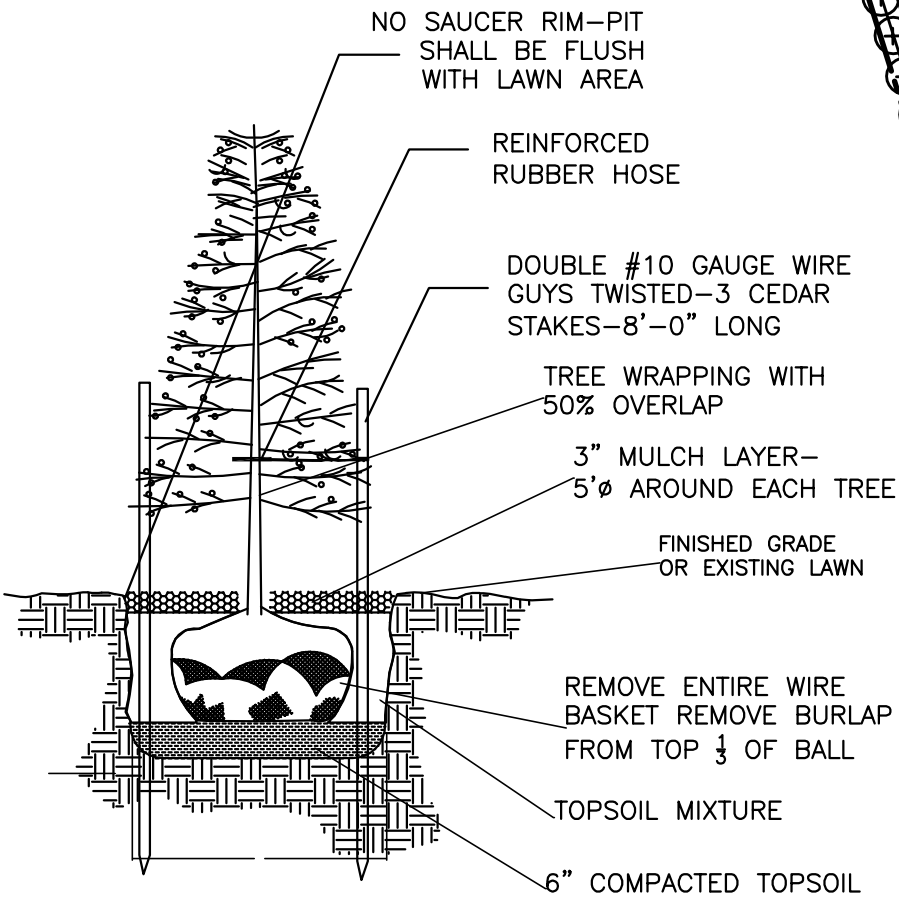
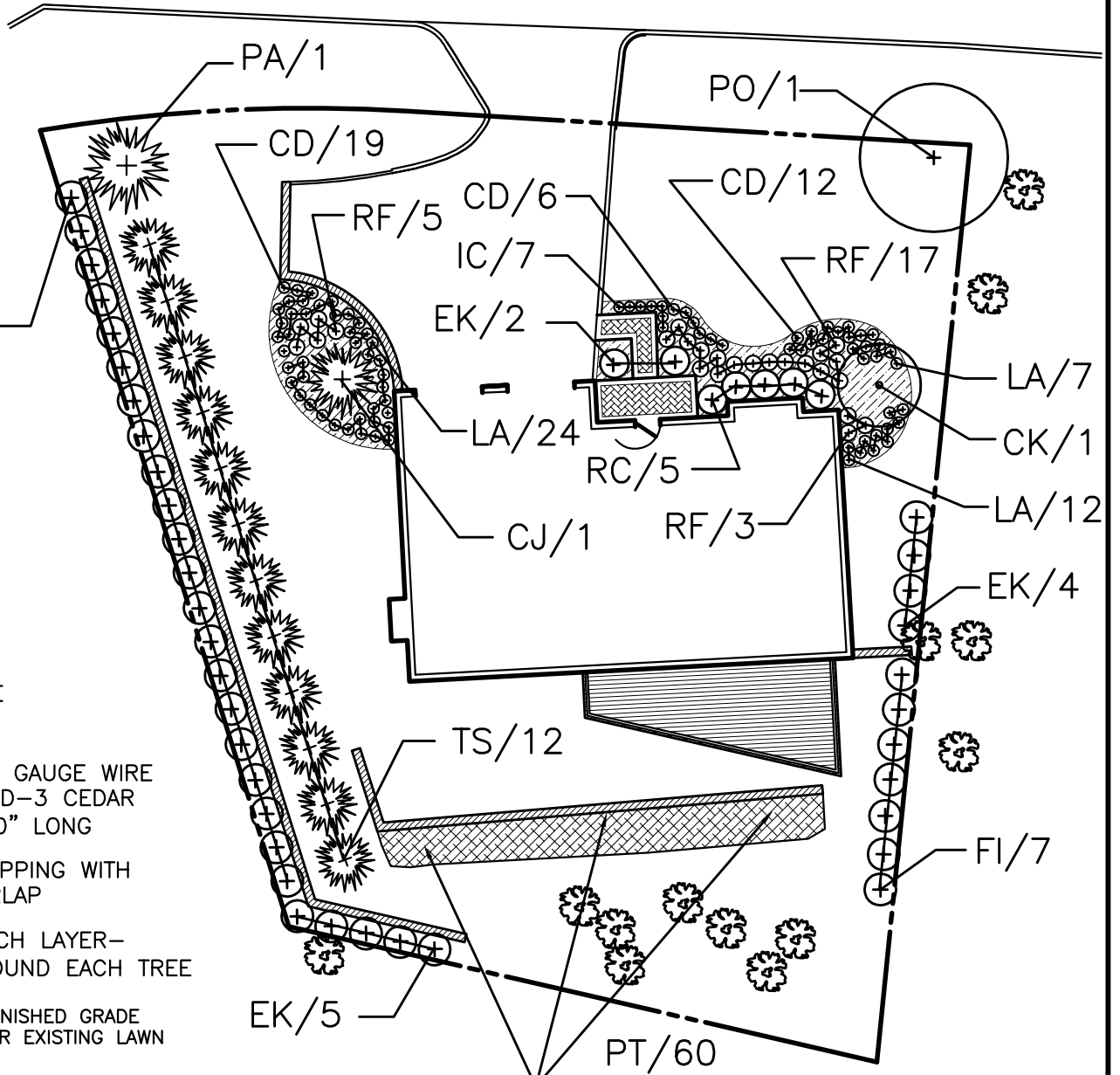
SD-1

LEGEND:

- PROPOSED EVERGREEN TREE
- PROPOSED DECIDUOUS TREE
- PROPOSED SHRUB
- MULCHED BED
- EXISTING TREE TO REMAIN



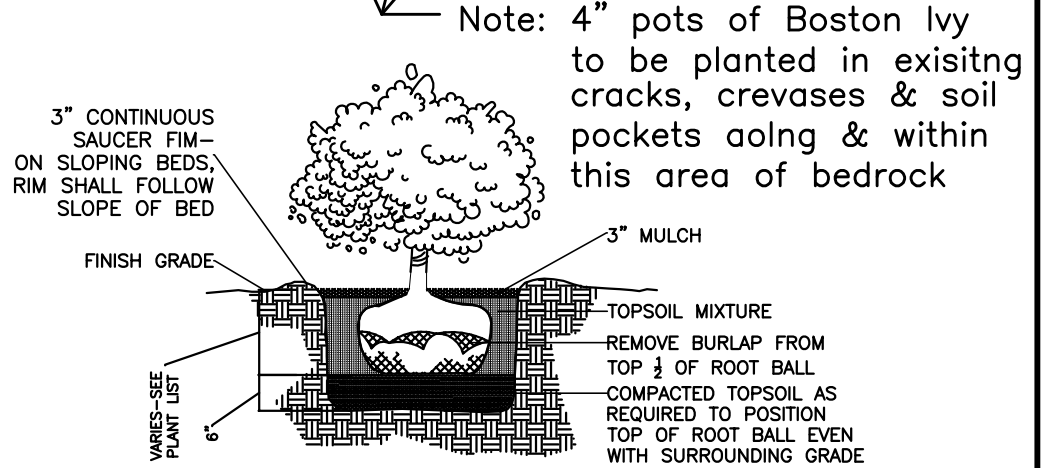
SCALE: 1" = 20'-0"



EVERGREEN TREE PLANTING

Not To Scale

NOTE: All planting beds to receive 2" shredded cedar bark mulch



SHRUB PLANTING DETAIL

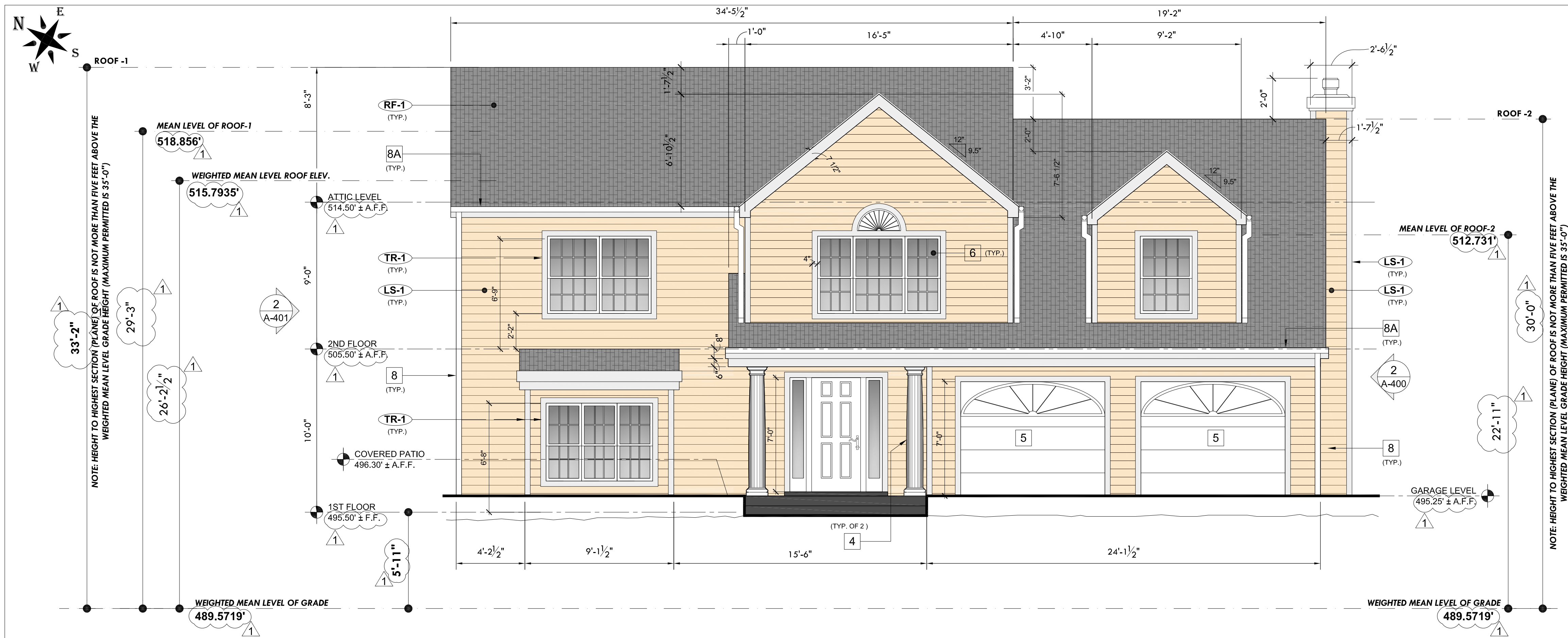
Not To Scale

PROPOSED PLANT LIST						
Sym.	Quantity	Botanical Name	Common Name	Size	Spacing	Remarks
CD	37	Cotoneaster dammeri	Bearberry Contoneaster	1 gal.	3' min.	Full, Symmetrical spreading
CK	1	Cornus kousa	Korean Dorwood	3" cal.	- NA -	multi stem, low branching
CJ	1	Cryptomeria japonica	Japanese Cedar	8'-10'	- NA -	Low branched, full to grade
FI	28	Forsythia X intermedia	Common Foreythia	5'-6'	6' min.	multi Stem, 5 stems min.
EK	11	Euonymus kiautschovicus	Euonymus "Manhattan"	7 gal.	5' min.	full, tight crown
IC	7	Ilex crenata convexa	Chinese Holly	5 gal.	3' min.	compact, symmetrical crown
LA	43	Leucothoe axillaris	Fountain Leucothoe	1 gal.	3' min.	multi stem, 5-6 per plant
PT	60	Parthenocissus tricuspidata	Boston Ivy	4" pot	18" min.	multi stem, 2' min.
PA	1	Picea abies	Norway Spruce	8'-10'	12' min.	low branched, symmetrical, full
PO	1	Platanus occidentalis	American Sycamore	3" cal.	- NA -	pruned 5' min above grade
RC	5	Rhododendron catawbiense	Roseum Elegans Rhododendron	7 gal.	5' min.	full, tight crown
RF	25	Rhododendron fortunei	Delaware Valley White Azalea	7 gal.	4' min.	full, tight crown
TS	12	Thuja standisjii x plicata "Green Giant"	Green Giant Arborvite	6'-7'	8' min.	Central Leader, Low, full, to grade

WALTER G. NESTLER P.C.
 LANDSCAPE ARCHITECT ASLA
 ISA CERTIFIED ARBORIST
 511 BOLTON AVENUE
 BRONX, NEW YORK 10473-2901
 VOICE & FAX: (718) 842-5356
 E-MAIL: WGNESTLER @ AOL.COM



PLANTING PLAN
 Application No.: 2020-2947
 21 Nethermont Avenue
 White Plains, New York 10603
 Tax ID: 122.16-4-41
 Zoning District: R-5
 REVISED: 6/10/22
 May 4, 2022
 Sheet: 2 of 2

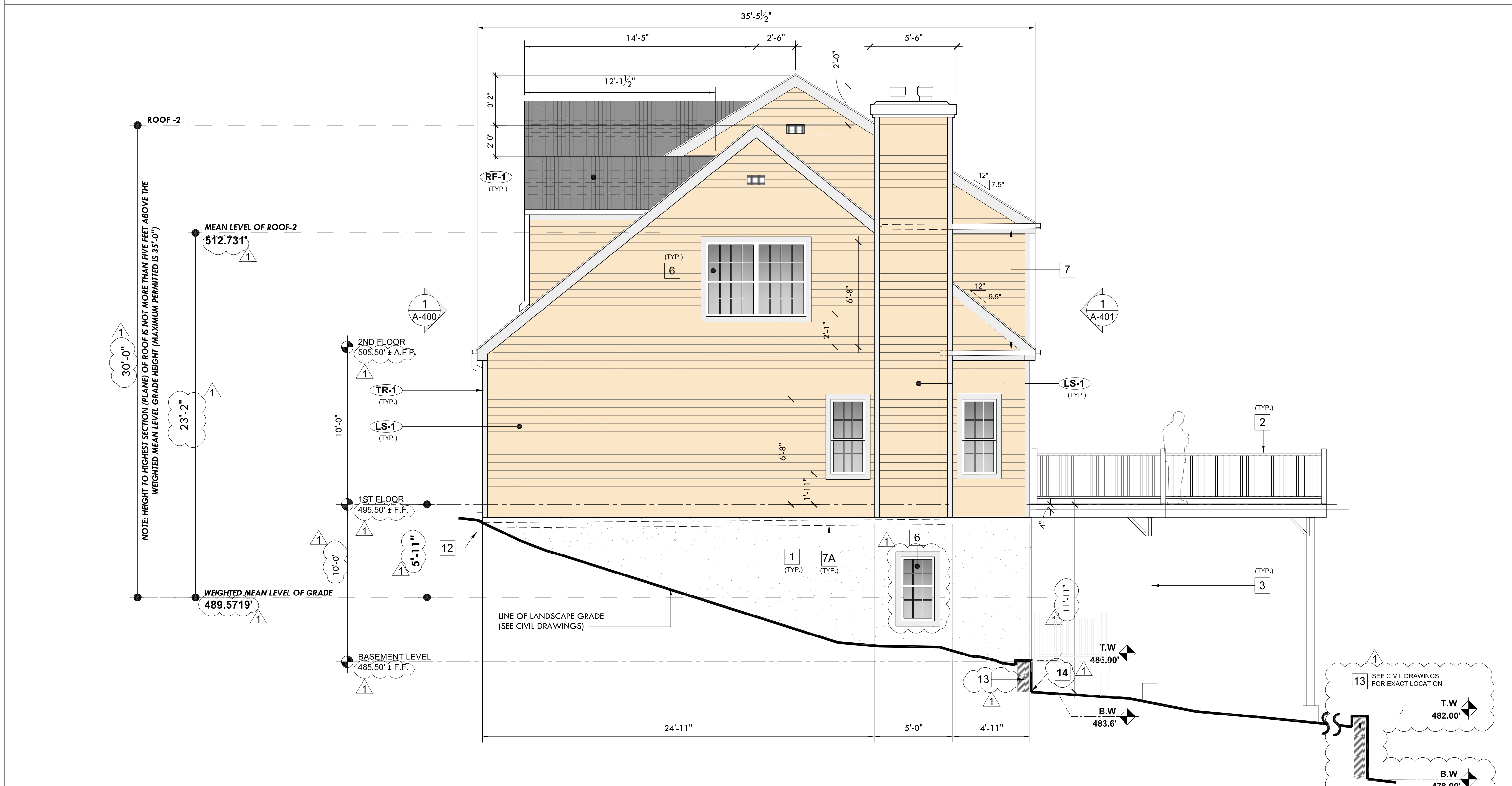


EAST ELEVATION (FRONT)
SCALE: 1/4" = 1'-0"

FINISH	DESCRIPTION
LS-1 LAP SIDING	MANUFACTURER:..... JAMESHARDIE FINISH:..... SMOOTH COLOR:..... DESIGNER CREAM SIZE:..... 6-1/4" WITH 5" EXPOSURE
TR-1 TRIM BOARD	MANUFACTURER:..... AZEK FINISH:..... SMOOTH COLOR:..... WHITE SIZE:.....
RF-1 ROOFING	MANUFACTURER:..... GAF TIMBERLINE HDZ FINISH:..... ASPHALT ROOF SHINGLES COLOR:..... CHARCOAL

NO.	DESCRIPTION
1	SMOOTH FINISHED PARGED REINFORCED EXPOSE CONCRETE .
2	+42" HIGH P.T RAILING WITH 2x2 P.T BALUSTERS @ 4" O.C
3	6x6 P.T COLUMNS OVER 18" DIA. "SONETUBE" FOOTING 42" MIN. BELOW GRADE
4	12" Ø TAPERED COMPOSITE BEARING COLUMNS FOR ENTRY PORCH OVERHANG. (BEARING)
5	INSULATED GARAGE DOORS
6	DOUBLE GLAZED VINYL CLAD, DOUBLE HUNG OPERABLE WINDOWS (TYPICAL) - SEE WINDOW SCHEDULE
7	RETURN RAIN GUTTER ON SIDE OF BUILDING AND RUN CONCEALED BELOW ROOF LINE ABOVE FAMILY ROOM INTO CHIMNEY ENCLOSURE. TIE IN ALL RAIN LEADERS INTO STORM SYSTEM IN NETHERMONT AVENUE WITH GRAVITY DRAINAGE (TYPICAL)
7A	INSTALL CONCEALED 4" PVC HEAVY WALL PIPE FOR CONTINUATION OF GRAVITY RAIN DRAINAGE TO NETHERMONT AVE. (SEE CIVIL DRAWINGS FOR REQUIREMENTS)
8	RAIN LEADERS TO BE TIED INTO GRAVITY DRAINAGE FOR DIRECT CONNECTION TO NETHERMONT AVE. STORM SYSTEM (SEE CIVIL DRAWINGS FOR REQUIREMENTS)
8A	CONTINUOUS ALUM. RAIN GUTTER
9	INSTALL RAIN GUTTER ON SIDE OF BUILDING & PENETRATE ROOF WHERE THE GUTTER INTERSECTS THE SLOPING ROOF SEE NORTH ELEVATION ON DWG. A-400
10	LINE OF RAIN GUTTER CONCEALED ABOVE FAMILY ROOM INTO CHIMNEY
11	WOOD FRAMED CHIMNEY TO BE CANTILEVERED OUT AT BOTTOM WITH TRIPLED UP 2x10's AT EACH END. 2x10's TO PROJECT INTO FLOOR FRAMING THE SAME DISTANCE AS CANTILEVERED.
12	FOR CONTINUATION OF GRAVITY STORM DRAINAGE (SEE CIVIL DRAWINGS)
13	NEW RETAINING WALL (SEE CIVIL DRAWINGS)
14	BOTT. OF GRADE ELEVATION ALONG REAR OF BUILDING = 483.6 495.5 - 483.6 = 11'-11" HEIGHT FROM REAR GRADE TO 1ST FLOOR - (LESS THAN 12'-0")
15	WOOD DECK WITH HANDRAILS (+2'-10") AND STEPS DOWN TO GRADE.

WEIGHTED MEAN ROOF ELEVATION CALCULATIONS (WEIGHTED MEAN LEVEL OF GRADE = 488.5719')	
EAST ELEVATION	
A. SOUTH SIDE ROOF MEAN ELEVATION =	29'-3"
B. NORTH SIDE ROOF MEAN ELEVATION =	23'-2"
WEIGHTED MEAN ROOF ELEVATION EAST SIDE	
A + B / 2 = 26 - 2-1/2" ABOVE MEAN GRADE ELEVATION	
NORTH ELEVATION	
A. MEDIAN LEVEL OF END GABLE ROOF=	23'-2"
23'-2" ABOVE MEAN GRADE ELEVATION	



NORTH ELEVATION (SDIE)
SCALE: 1/4" = 1'-0"

JEFFREY TAYLOR ARCHITECT
572 NORTH BROADWAY
WHITE PLAINS, NEW YORK 10603
TEL 914 289 0011



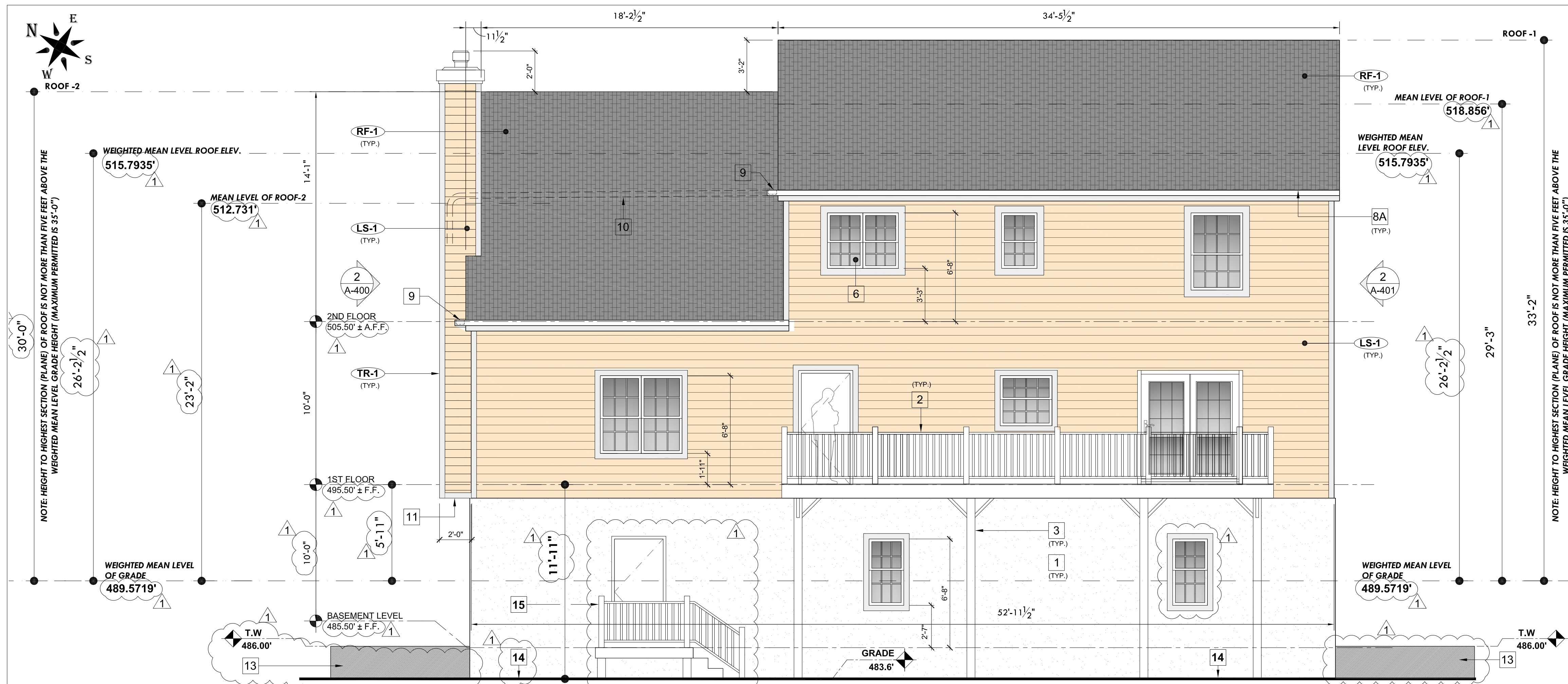
REVISIONS:	REVISIONS PER RPRC COMMENTS
12.14.20	REVISED FOR ARB REVIEW
02.17.21	ISSUED FOR ARB REVIEW
12.03.21	REVISED PER CIVIL ENGINEERING GRADE REVISIONS

PROJECT NO. 9458
START DATE: 08.02.20
DRAWN BY: FTA (R.M)
SCALE: AS NOTED

SHEET TITLE:
EXTERIOR ELEVATIONS

DELAURENTIS RESIDENCE
NEW HOUSE CONSTRUCTION
21 NETHERMONT AVENUE
TOWN OF NORTH CASTLE, NY 10504

SHEET NO:
A-400.01



WEST ELEVATION (REAR)
SCALE: 1/4" = 1'-0"

FINISH LEGEND

FINISH	DESCRIPTION
LS-1 LAP SIDING	MANUFACTURER:..... JAMESHARDIE FINISH:..... SMOOTH COLOR:..... DESIGNER CREAM SIZE:..... 6-1/4" WITH 5" EXPOSURE
TR-1 TRIM BOARD	MANUFACTURER:..... AZEK FINISH:..... SMOOTH COLOR:..... WHITE SIZE:.....
RF-1 ROOFING	MANUFACTURER:..... GAF TIMBERLINE HDZ FINISH:..... ASPHALT ROOF SHINGLES COLOR:..... CHARCOAL

CONSTRUCTION KEY NOTES

- | NO. | DESCRIPTION |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | SMOOTH FINISHED PARGED REINFORCED EXPOSE CONCRETE. |
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| 3 | 6x6 P.T COLUMNS OVER 18" DIA. "SONETUBE" FOOTING 42" MIN. BELOW GRADE |
| 4 | 12" Ø TAPERED COMPOSITE BEARING COLUMNS FOR ENTRY PORCH OVERHANG. (BEARING) |
| 5 | INSULATED GARAGE DOORS |
| 6 | DOUBLE GLAZED VINYL CLAD, DOUBLE HUNG OPERABLE WINDOWS (TYPICAL) - SEE WINDOW SCHEDULE |
| 7 | RETURN RAIN GUTTER ON SIDE OF BUILDING AND RUN CONCEALED BELOW ROOF LINE ABOVE FAMILY ROOM INTO CHIMNEY ENCLOSURE. TIE IN ALL RAIN LEADERS INTO STORM SYSTEM IN NETHERMONT AVENUE WITH GRAVITY DRAINAGE (TYPICAL) |
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| 8A | CONTINUOUS ALUM. RAIN GUTTER |
| 9 | INSTALL RAIN GUTTER ON SIDE OF BUILDING & PENETRATE ROOF WHERE THE GUTTER INTERSECTS THE SLOPING ROOF SEE NORTH ELEVATION ON DWG. A-400 |
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| 13 | NEW RETAINING WALL (SEE CIVIL DRAWINGS) |
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495.5 - 483.6 = 11'-11" HEIGHT FROM REAR GRADE TO 1ST FLOOR - (LESS THAN 12'-0") |
| 15 | WOOD DECK WITH HANDRAILS (+2'-10") AND STEPS DOWN TO GRADE. |

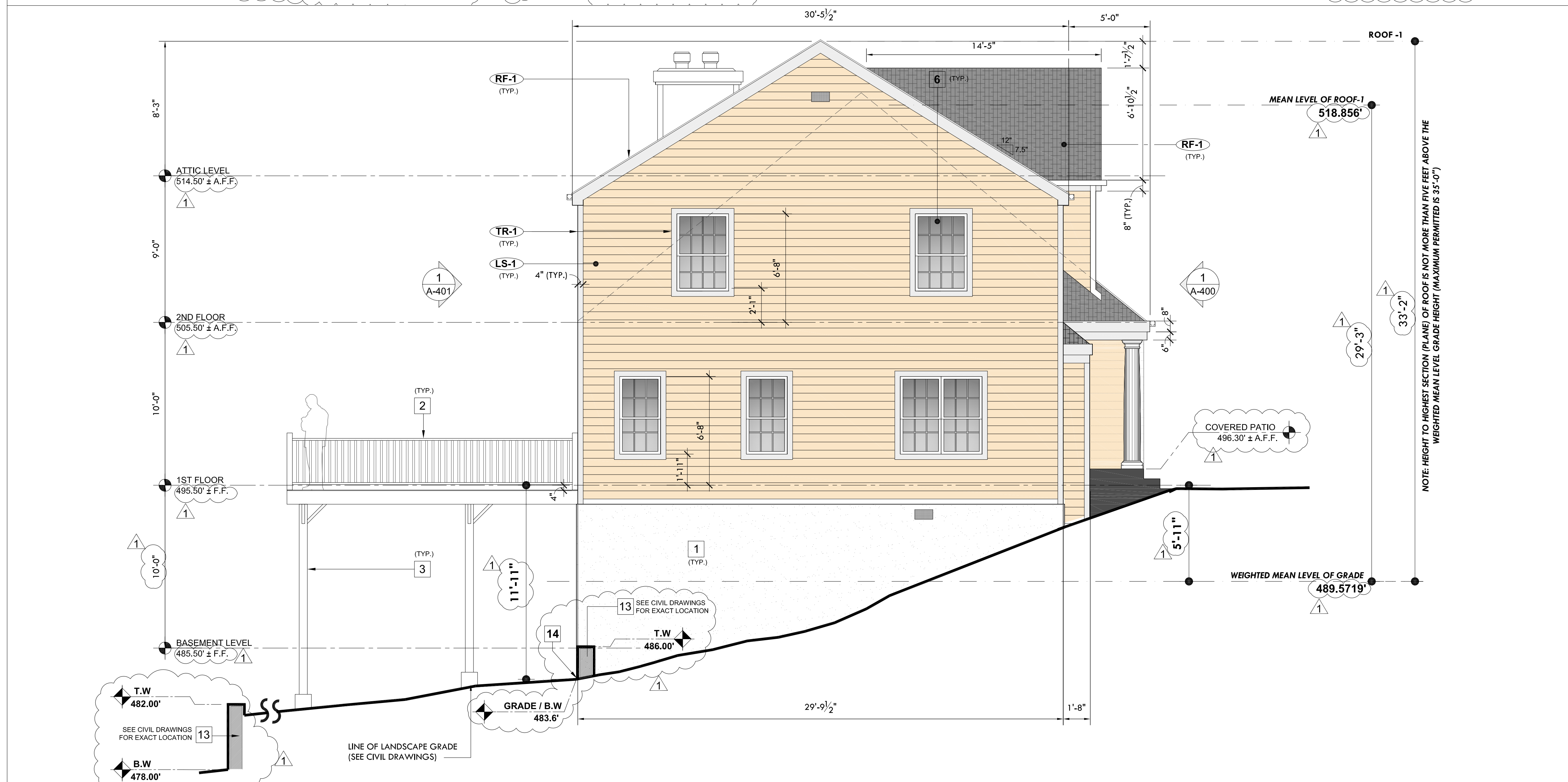
WEIGHTED MEAN ROOF ELEVATION CALCULATIONS
(WEIGHTED MEAN LEVEL OF GRADE = 489.5719)

WEST ELEVATION

- A. NORTH SIDE ROOF MEAN ELEVATION = 23'-2"
 - B. SOUTH SIDE ROOF MEAN ELEVATION = 29'-3"
- WEIGHTED MEAN ROOF ELEVATION WEST SIDE
 $A + B / 2 = 26 - 2-1/2$ ABOVE MEAN GRADE ELEVATION

SOUTH ELEVATION

- A. MEDIAN LEVEL OF END GABLE ROOF = 29'-3"
- 29'-3" ABOVE MEAN GRADE ELEVATION



SOUTH ELEVATION (SIDE)
SCALE: 1/4" = 1'-0"



JEFFREY TAYLOR ARCHITECT
572 NORTH BROADWAY
WHITE PLAINS, NEW YORK 10603

TEL 914 289 0011



DEC 03 2021

REVISIONS:
12.14.20 REVISED PER RPRC COMMENTS
02.17.21 ISSUED FOR ARB REVIEW
12.03.21 REVISED PER CIVIL ENGINEERING GRADE REVISIONS

PROJECT NO. 9458
START DATE: 08.02.20
DRAWN BY: FTA (R.M)
SCALE: AS NOTED

SHEET TITLE:
EXTERIOR ELEVATIONS

DELAURENTIS RESIDENCE
NEW HOUSE CONSTRUCTION
21 NETHERMONT AVENUE
TOWN OF NORTH CASTLE, NY 10504

SHEET NO:
A-401.01

**Drainage Calculations
21 Nethermont Road
North Castle , New York**

Eliot Senor P.E. & L.S.
May 3, 2022
June 16,2022

The analysis was performed utilizing the Soil Conservation Service (SCS) TR-20 and TR-55 methodologies. Rainfall intensity was utilized for 1, 2, 10, 25, 50 and 100 Year storm event at 2.82”, 3.45”, 5.11”, 6.41”, 7.63” and 9.23” for a 24 hour rainfall in Westchester County. The development is the construction of a new one family house and associated impervious surfaces. For purposes of calculations the pre-existing condition of the developed area was examined as un-developed grass/woods area. For the post development condition, excess surface stormwater generated by the impervious surfaces of the residence and associated impervious surfaces shall be stored in a drainage detention structure which will have a controlled outlet to the drainage system in the street.

Pre-Development 25 Year Storm

The Soil Conservation Service’s TR-20 method (a more accurate and precise calculation methodology than TR-55) as incorporated in the HydroCAD software was used to determine the pre-development and post-development runoff rates of the additions.

The Pre-Development rate of the site was examined as a pre-developed grass/woods area.

Post-Development 25 Year Storm

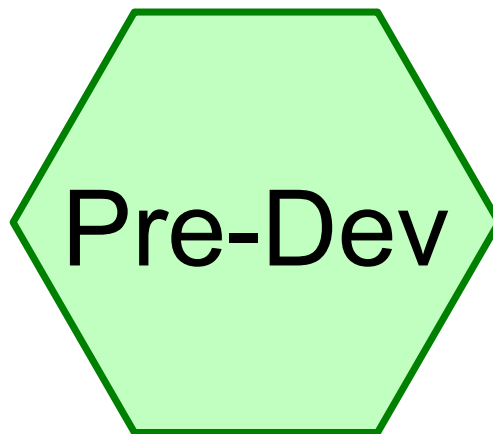
Runoff is to be mitigated by a system consisting of a detention chamber with a controlled outlet. The control outlet will discharge to the drainage system in the street.

- 100 linear ft of 30” diameter HDPE Pipe (Bot El 489.5)
- 4 holes 5/8” el 489.5
- 4 holes 5/8” el 489.88
- Weir El 492 -4’ wide

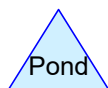
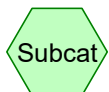
Table Stormwater Runoff

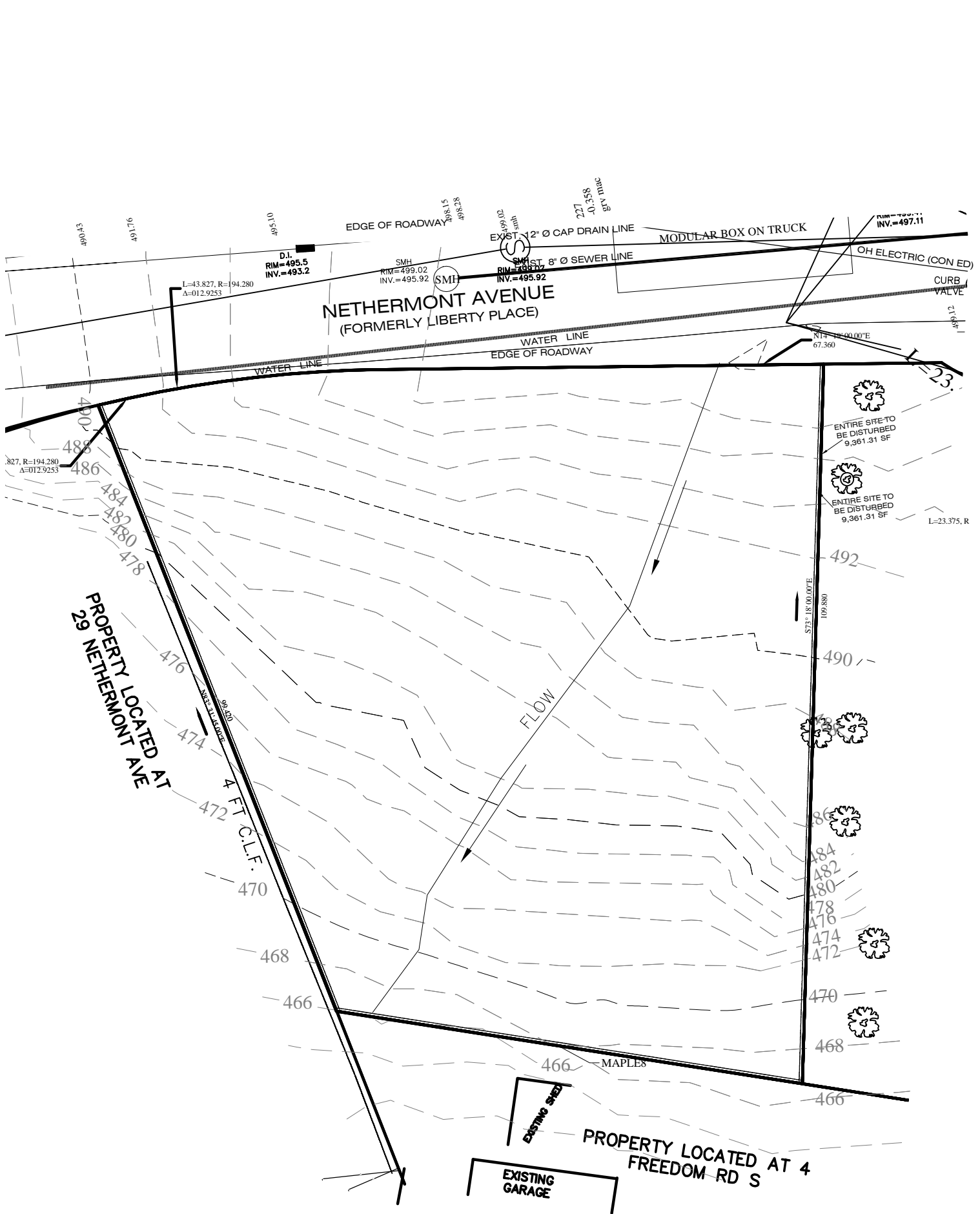
Design Storm (25 yr)	Total Pre-Development Existing Conditions	Total Post-Development Peak Runoff (cfs)
1	0.30	0.29
2	0.41	0.39
10	0.73	0.58
25	0.98	0.86
50	1.23	1.06
100	1.54	1.36

Given the Post Development basin routing runoff rates for the selected storms shown peak runoff has no significant net increase of those of the Pre Development condition. It is concluded that the proposed design satisfactorily meets the regulation of no net increase in the rate of offsite storm water discharge.



Nethermont - Pre Development





**NETHERMONT AVENUE
(FORMERLY LIBERTY PLACE)**

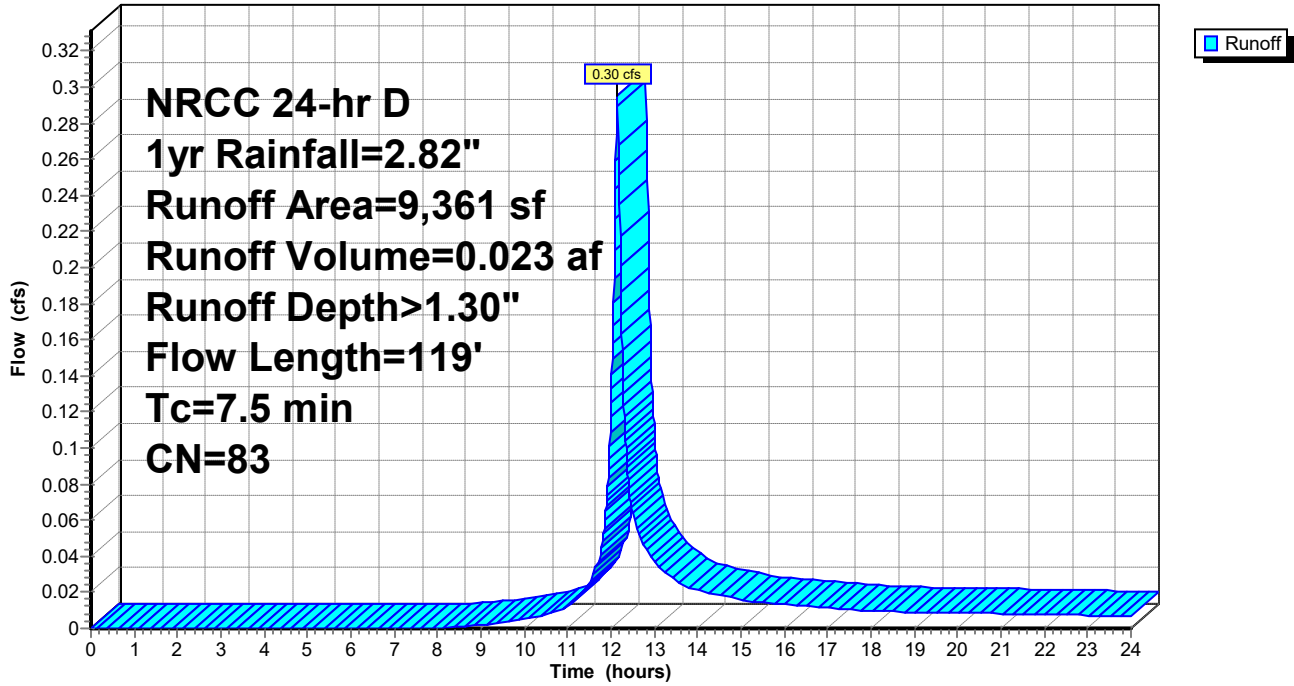
**PROPERTY LOCATED AT
29 NETHERMONT AVE**

**PROPERTY LOCATED AT 4
FREEDOM RD S**

pre-development

Subcatchment Pre-Dev: Nethermont - Pre Development

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 1yr Rainfall=2.82"

Prepared by {enter your company name here}

Printed 6/24/2022

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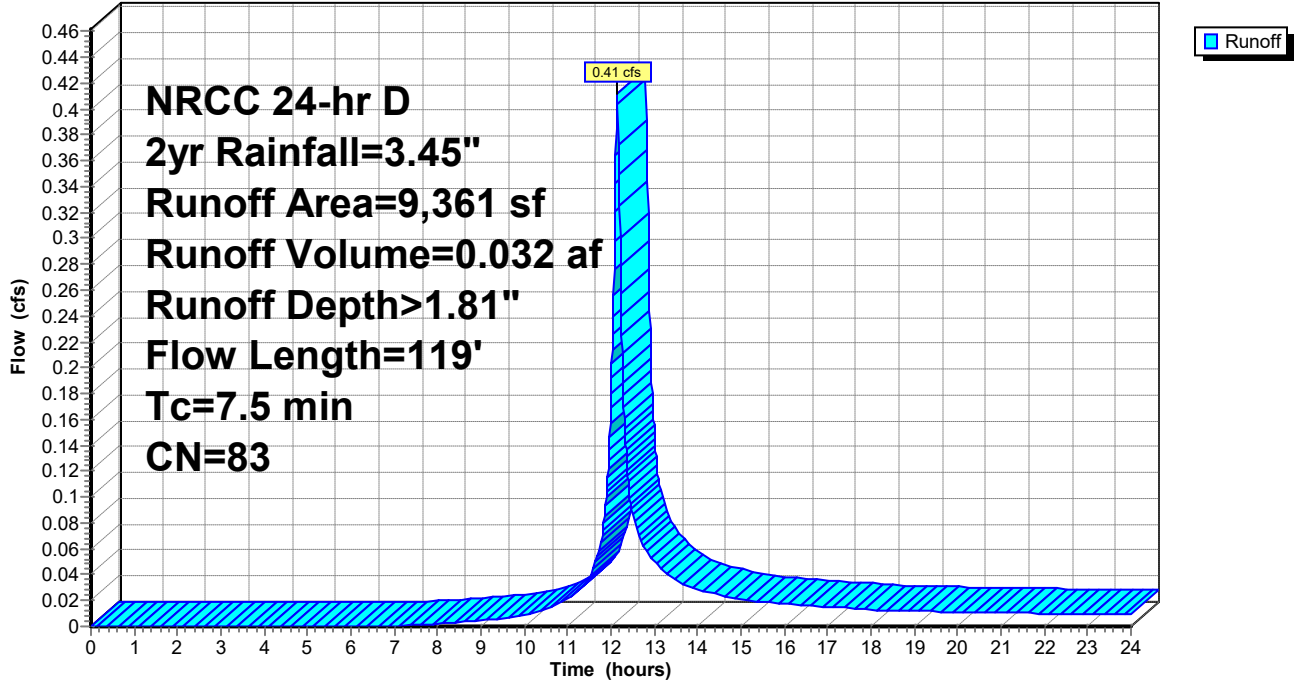
Page 3

Hydrograph for Subcatchment Pre-Dev: Nethermont - Pre Development

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.02	0.00	0.00
1.00	0.04	0.00	0.00
1.50	0.06	0.00	0.00
2.00	0.08	0.00	0.00
2.50	0.11	0.00	0.00
3.00	0.13	0.00	0.00
3.50	0.16	0.00	0.00
4.00	0.18	0.00	0.00
4.50	0.21	0.00	0.00
5.00	0.23	0.00	0.00
5.50	0.26	0.00	0.00
6.00	0.29	0.00	0.00
6.50	0.32	0.00	0.00
7.00	0.35	0.00	0.00
7.50	0.39	0.00	0.00
8.00	0.43	0.00	0.00
8.50	0.47	0.00	0.00
9.00	0.52	0.01	0.00
9.50	0.57	0.01	0.00
10.00	0.63	0.02	0.00
10.50	0.70	0.04	0.01
11.00	0.80	0.06	0.01
11.50	0.94	0.11	0.02
12.00	1.35	0.30	0.13
12.50	1.88	0.61	0.07
13.00	2.02	0.71	0.04
13.50	2.12	0.78	0.03
14.00	2.19	0.83	0.02
14.50	2.25	0.87	0.02
15.00	2.30	0.91	0.02
15.50	2.35	0.94	0.01
16.00	2.39	0.97	0.01
16.50	2.43	1.00	0.01
17.00	2.47	1.03	0.01
17.50	2.50	1.06	0.01
18.00	2.53	1.08	0.01
18.50	2.56	1.10	0.01
19.00	2.59	1.12	0.01
19.50	2.61	1.14	0.01
20.00	2.64	1.16	0.01
20.50	2.66	1.18	0.01
21.00	2.69	1.20	0.01
21.50	2.71	1.22	0.01
22.00	2.74	1.24	0.01
22.50	2.76	1.25	0.01
23.00	2.78	1.27	0.01
23.50	2.80	1.29	0.01
24.00	2.82	1.30	0.01

Subcatchment Pre-Dev: Nethermont - Pre Development

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 2yr Rainfall=3.45"

Prepared by {enter your company name here}

Printed 6/24/2022

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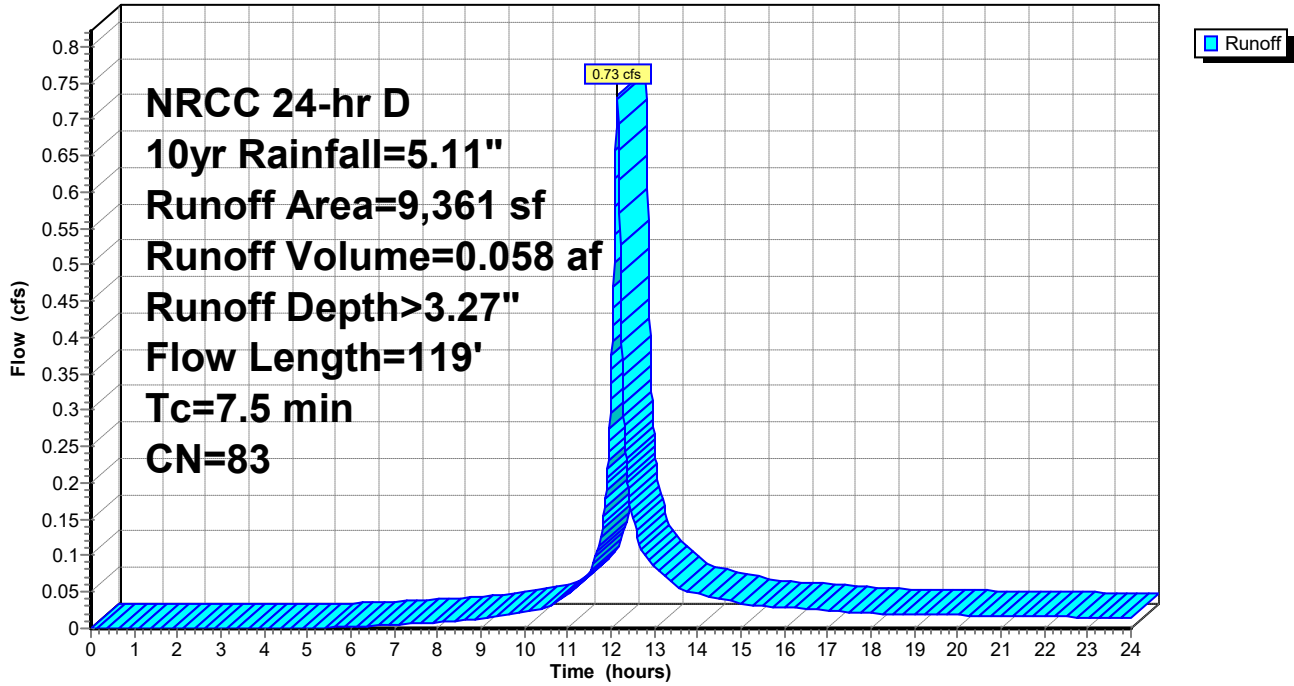
Page 5

Hydrograph for Subcatchment Pre-Dev: Nethermont - Pre Development

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.02	0.00	0.00
1.00	0.05	0.00	0.00
1.50	0.08	0.00	0.00
2.00	0.10	0.00	0.00
2.50	0.13	0.00	0.00
3.00	0.16	0.00	0.00
3.50	0.19	0.00	0.00
4.00	0.22	0.00	0.00
4.50	0.25	0.00	0.00
5.00	0.29	0.00	0.00
5.50	0.32	0.00	0.00
6.00	0.36	0.00	0.00
6.50	0.39	0.00	0.00
7.00	0.43	0.00	0.00
7.50	0.48	0.00	0.00
8.00	0.53	0.01	0.00
8.50	0.58	0.01	0.00
9.00	0.63	0.02	0.00
9.50	0.70	0.04	0.01
10.00	0.77	0.05	0.01
10.50	0.86	0.08	0.01
11.00	0.98	0.12	0.02
11.50	1.16	0.20	0.04
12.00	1.65	0.47	0.18
12.50	2.29	0.90	0.09
13.00	2.47	1.03	0.05
13.50	2.59	1.12	0.04
14.00	2.68	1.19	0.03
14.50	2.75	1.25	0.02
15.00	2.82	1.30	0.02
15.50	2.87	1.34	0.02
16.00	2.92	1.39	0.02
16.50	2.97	1.42	0.02
17.00	3.02	1.46	0.02
17.50	3.06	1.49	0.01
18.00	3.09	1.52	0.01
18.50	3.13	1.55	0.01
19.00	3.16	1.58	0.01
19.50	3.20	1.61	0.01
20.00	3.23	1.63	0.01
20.50	3.26	1.66	0.01
21.00	3.29	1.68	0.01
21.50	3.32	1.71	0.01
22.00	3.35	1.73	0.01
22.50	3.37	1.75	0.01
23.00	3.40	1.77	0.01
23.50	3.43	1.80	0.01
24.00	3.45	1.82	0.01

Subcatchment Pre-Dev: Nethermont - Pre Development

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 10yr Rainfall=5.11"

Prepared by {enter your company name here}

Printed 6/24/2022

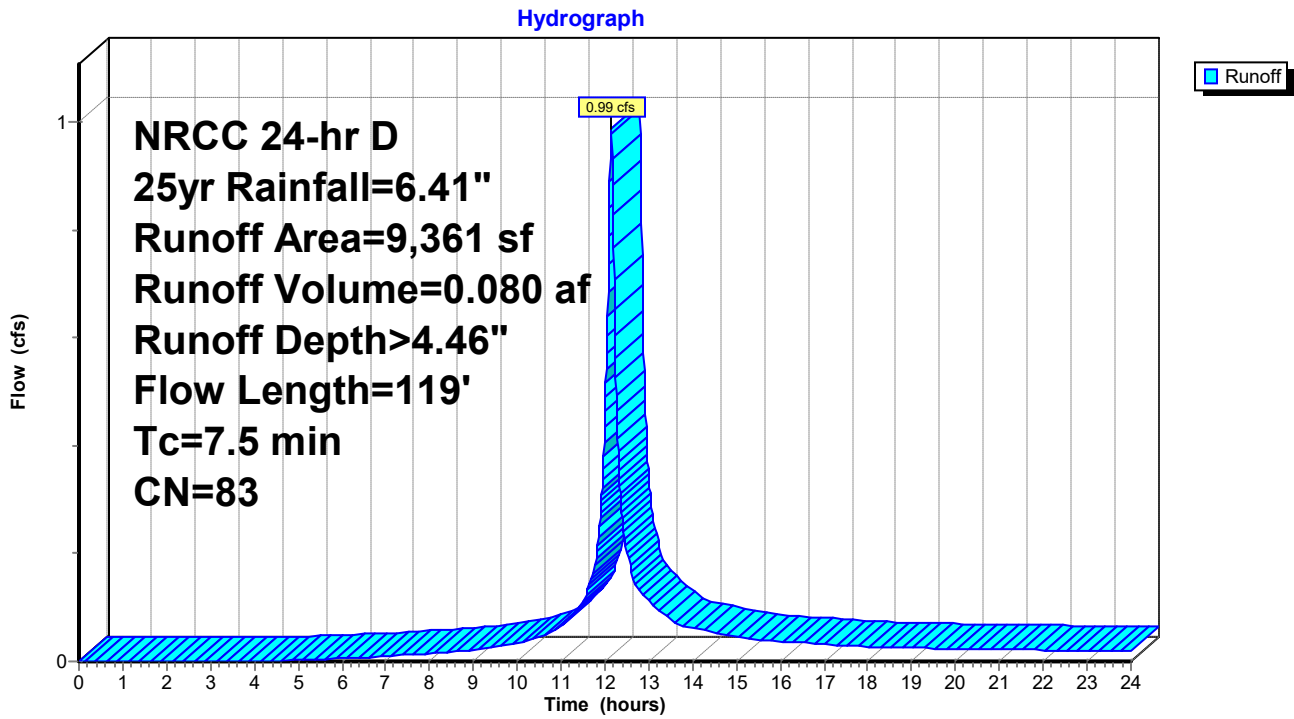
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Page 7

Hydrograph for Subcatchment Pre-Dev: Nethermont - Pre Development

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.04	0.00	0.00
1.00	0.07	0.00	0.00
1.50	0.11	0.00	0.00
2.00	0.15	0.00	0.00
2.50	0.20	0.00	0.00
3.00	0.24	0.00	0.00
3.50	0.28	0.00	0.00
4.00	0.33	0.00	0.00
4.50	0.38	0.00	0.00
5.00	0.43	0.00	0.00
5.50	0.48	0.00	0.00
6.00	0.53	0.01	0.00
6.50	0.58	0.01	0.00
7.00	0.64	0.02	0.00
7.50	0.71	0.04	0.01
8.00	0.78	0.06	0.01
8.50	0.86	0.08	0.01
9.00	0.94	0.11	0.01
9.50	1.03	0.15	0.02
10.00	1.15	0.19	0.02
10.50	1.28	0.26	0.03
11.00	1.45	0.35	0.05
11.50	1.71	0.51	0.08
12.00	2.45	1.02	0.34
12.50	3.40	1.77	0.15
13.00	3.66	1.99	0.09
13.50	3.83	2.14	0.06
14.00	3.96	2.26	0.05
14.50	4.08	2.35	0.04
15.00	4.17	2.44	0.03
15.50	4.25	2.51	0.03
16.00	4.33	2.58	0.03
16.50	4.40	2.64	0.03
17.00	4.47	2.70	0.02
17.50	4.53	2.75	0.02
18.00	4.58	2.80	0.02
18.50	4.63	2.85	0.02
19.00	4.68	2.89	0.02
19.50	4.73	2.93	0.02
20.00	4.78	2.98	0.02
20.50	4.83	3.02	0.02
21.00	4.87	3.06	0.02
21.50	4.91	3.10	0.02
22.00	4.96	3.13	0.02
22.50	5.00	3.17	0.02
23.00	5.04	3.21	0.02
23.50	5.07	3.24	0.01
24.00	5.11	3.27	0.01

Subcatchment Pre-Dev: Nethermont - Pre Development



Nethermont Lot May2022

NRCC 24-hr D 25yr Rainfall=6.41"

Prepared by {enter your company name here}

Printed 6/24/2022

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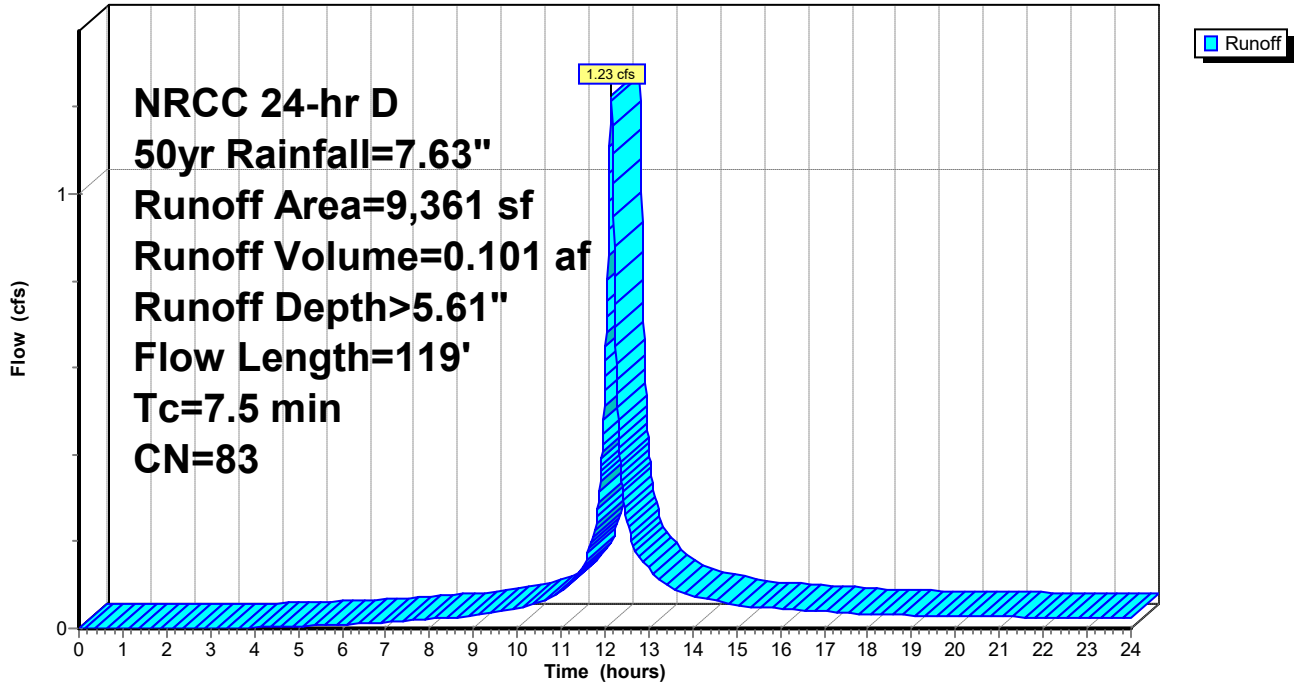
Page 9

Hydrograph for Subcatchment Pre-Dev: Nethermont - Pre Development

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.05	0.00	0.00
1.00	0.09	0.00	0.00
1.50	0.14	0.00	0.00
2.00	0.19	0.00	0.00
2.50	0.25	0.00	0.00
3.00	0.30	0.00	0.00
3.50	0.36	0.00	0.00
4.00	0.41	0.00	0.00
4.50	0.47	0.00	0.00
5.00	0.53	0.01	0.00
5.50	0.60	0.02	0.00
6.00	0.66	0.03	0.01
6.50	0.73	0.04	0.01
7.00	0.81	0.06	0.01
7.50	0.89	0.09	0.01
8.00	0.98	0.12	0.01
8.50	1.07	0.16	0.02
9.00	1.18	0.21	0.02
9.50	1.30	0.27	0.03
10.00	1.44	0.34	0.03
10.50	1.60	0.44	0.04
11.00	1.82	0.58	0.07
11.50	2.15	0.80	0.11
12.00	3.07	1.50	0.46
12.50	4.26	2.52	0.20
13.00	4.59	2.80	0.11
13.50	4.81	3.00	0.08
14.00	4.97	3.15	0.06
14.50	5.11	3.28	0.05
15.00	5.23	3.39	0.04
15.50	5.34	3.48	0.04
16.00	5.43	3.57	0.04
16.50	5.52	3.65	0.03
17.00	5.60	3.73	0.03
17.50	5.68	3.80	0.03
18.00	5.75	3.86	0.03
18.50	5.81	3.92	0.03
19.00	5.88	3.98	0.02
19.50	5.94	4.03	0.02
20.00	6.00	4.09	0.02
20.50	6.05	4.14	0.02
21.00	6.11	4.19	0.02
21.50	6.16	4.24	0.02
22.00	6.22	4.29	0.02
22.50	6.27	4.34	0.02
23.00	6.32	4.39	0.02
23.50	6.36	4.43	0.02
24.00	6.41	4.47	0.02

Subcatchment Pre-Dev: Nethermont - Pre Development

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 50yr Rainfall=7.63"

Prepared by {enter your company name here}

Printed 6/24/2022

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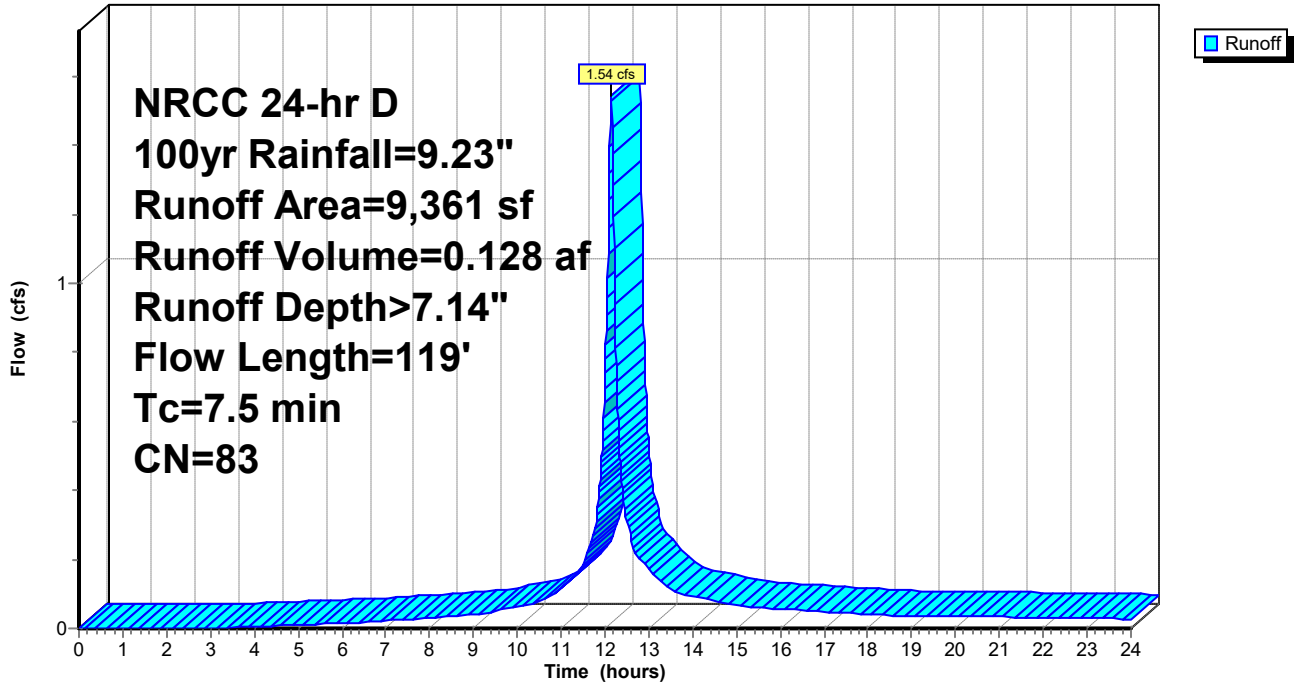
Page 11

Hydrograph for Subcatchment Pre-Dev: Nethermont - Pre Development

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.05	0.00	0.00
1.00	0.11	0.00	0.00
1.50	0.17	0.00	0.00
2.00	0.23	0.00	0.00
2.50	0.29	0.00	0.00
3.00	0.36	0.00	0.00
3.50	0.42	0.00	0.00
4.00	0.49	0.00	0.00
4.50	0.56	0.01	0.00
5.00	0.63	0.02	0.01
5.50	0.71	0.04	0.01
6.00	0.79	0.06	0.01
6.50	0.87	0.08	0.01
7.00	0.96	0.12	0.01
7.50	1.06	0.16	0.02
8.00	1.16	0.20	0.02
8.50	1.28	0.26	0.03
9.00	1.40	0.32	0.03
9.50	1.54	0.40	0.04
10.00	1.71	0.51	0.05
10.50	1.91	0.63	0.06
11.00	2.17	0.81	0.09
11.50	2.56	1.10	0.14
12.00	3.66	1.99	0.58
12.50	5.07	3.24	0.25
13.00	5.46	3.60	0.14
13.50	5.72	3.84	0.09
14.00	5.92	4.02	0.08
14.50	6.09	4.17	0.06
15.00	6.23	4.30	0.05
15.50	6.35	4.42	0.05
16.00	6.47	4.53	0.05
16.50	6.57	4.63	0.04
17.00	6.67	4.72	0.04
17.50	6.76	4.80	0.04
18.00	6.84	4.88	0.03
18.50	6.92	4.95	0.03
19.00	7.00	5.02	0.03
19.50	7.07	5.09	0.03
20.00	7.14	5.16	0.03
20.50	7.21	5.22	0.03
21.00	7.27	5.29	0.03
21.50	7.34	5.35	0.03
22.00	7.40	5.41	0.03
22.50	7.46	5.46	0.02
23.00	7.52	5.52	0.02
23.50	7.58	5.57	0.02
24.00	7.63	5.62	0.02

Subcatchment Pre-Dev: Nethermont - Pre Development

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 100yr Rainfall=9.23"

Prepared by {enter your company name here}

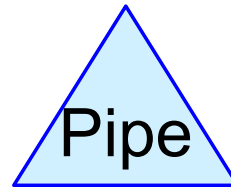
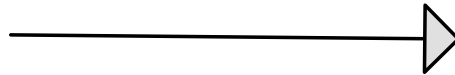
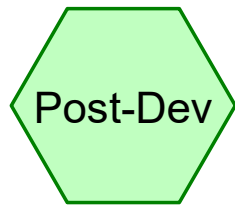
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Page 13

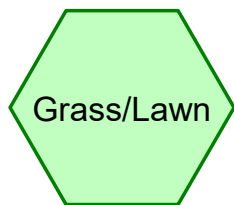
Hydrograph for Subcatchment Pre-Dev: Nethermont - Pre Development

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.07	0.00	0.00
1.00	0.13	0.00	0.00
1.50	0.20	0.00	0.00
2.00	0.28	0.00	0.00
2.50	0.35	0.00	0.00
3.00	0.43	0.00	0.00
3.50	0.51	0.00	0.00
4.00	0.59	0.02	0.01
4.50	0.68	0.03	0.01
5.00	0.77	0.05	0.01
5.50	0.86	0.08	0.01
6.00	0.95	0.11	0.01
6.50	1.05	0.15	0.02
7.00	1.16	0.20	0.02
7.50	1.28	0.26	0.03
8.00	1.41	0.33	0.03
8.50	1.55	0.41	0.04
9.00	1.69	0.50	0.04
9.50	1.87	0.61	0.05
10.00	2.07	0.74	0.06
10.50	2.31	0.91	0.08
11.00	2.62	1.15	0.11
11.50	3.09	1.52	0.18
12.00	4.42	2.66	0.74
12.50	6.14	4.22	0.30
13.00	6.61	4.66	0.17
13.50	6.92	4.96	0.12
14.00	7.16	5.18	0.09
14.50	7.36	5.37	0.08
15.00	7.54	5.54	0.07
15.50	7.68	5.68	0.06
16.00	7.82	5.81	0.06
16.50	7.95	5.93	0.05
17.00	8.07	6.04	0.05
17.50	8.18	6.15	0.04
18.00	8.28	6.24	0.04
18.50	8.37	6.33	0.04
19.00	8.46	6.42	0.04
19.50	8.55	6.50	0.04
20.00	8.64	6.59	0.04
20.50	8.72	6.67	0.03
21.00	8.80	6.74	0.03
21.50	8.88	6.82	0.03
22.00	8.95	6.89	0.03
22.50	9.03	6.96	0.03
23.00	9.10	7.03	0.03
23.50	9.16	7.09	0.03
24.00	9.23	7.16	0.03



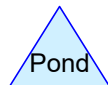
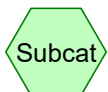
Nethermont - Post Development

30" Pipe



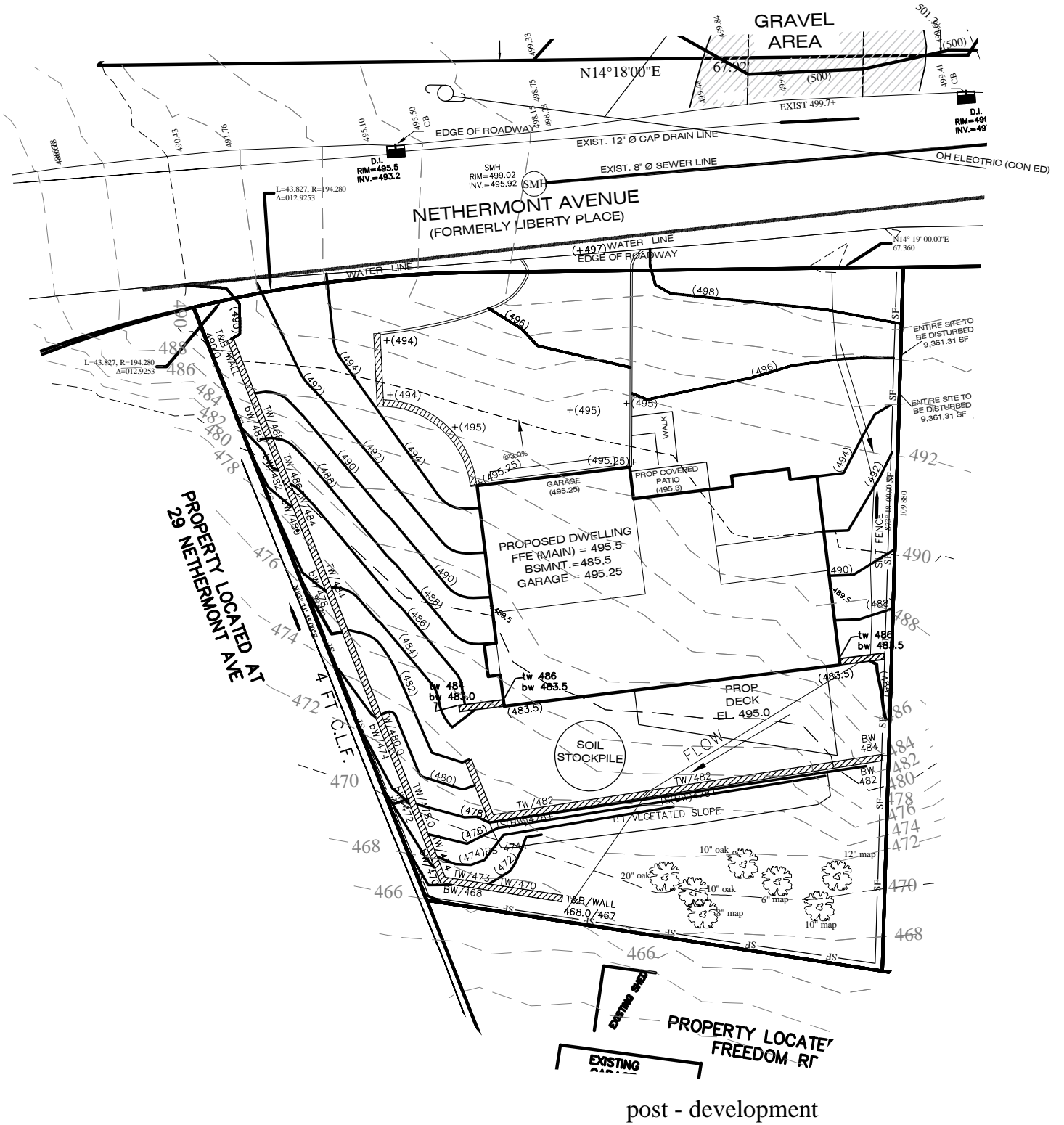
Grass

Post



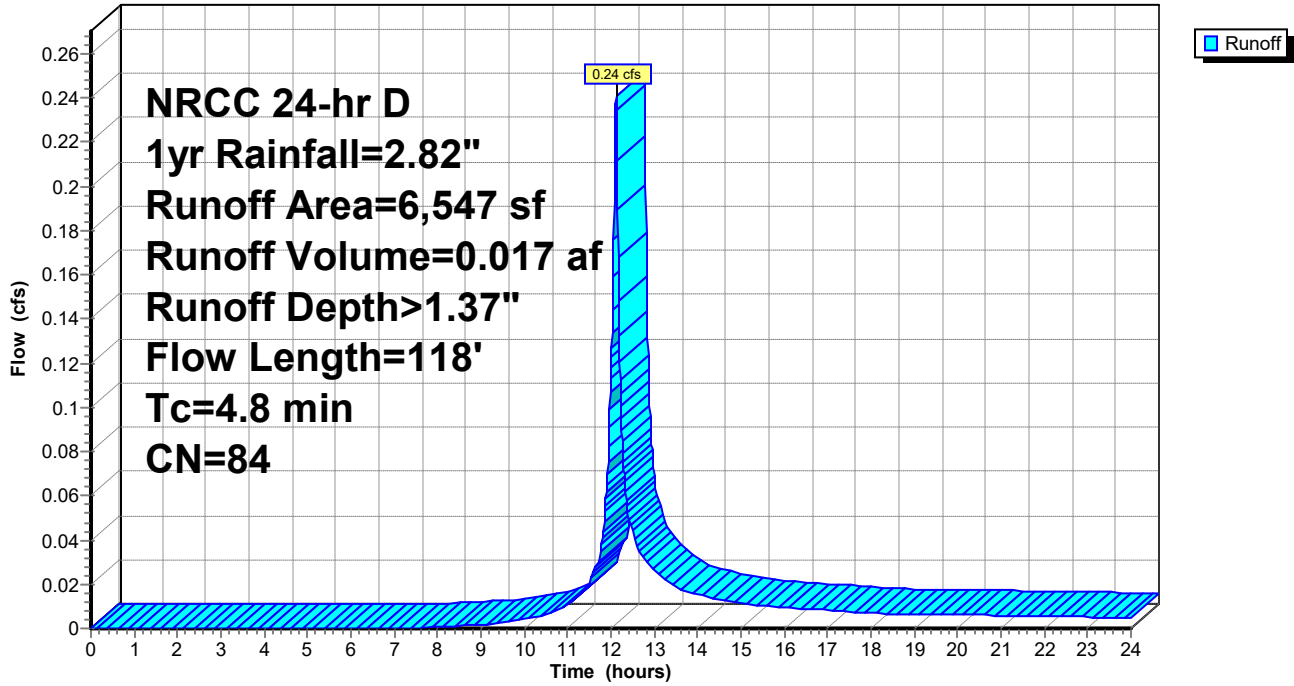
Routing Diagram for Nethermont Lot May2022

Prepared by {enter your company name here}, Printed 6/24/2022
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Subcatchment Grass/Lawn: Grass

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 1yr Rainfall=2.82"

Prepared by {enter your company name here}

Printed 6/24/2022

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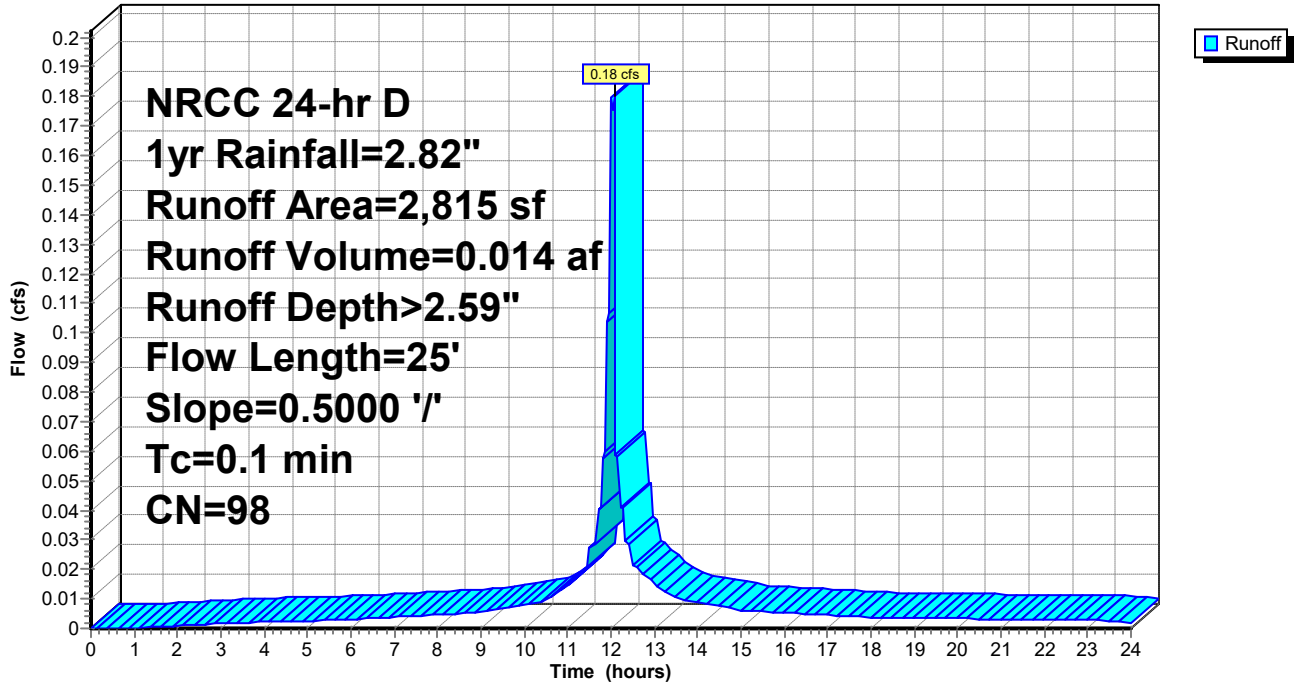
Page 3

Hydrograph for Subcatchment Grass/Lawn: Grass

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.02	0.00	0.00
1.00	0.04	0.00	0.00
1.50	0.06	0.00	0.00
2.00	0.08	0.00	0.00
2.50	0.11	0.00	0.00
3.00	0.13	0.00	0.00
3.50	0.16	0.00	0.00
4.00	0.18	0.00	0.00
4.50	0.21	0.00	0.00
5.00	0.23	0.00	0.00
5.50	0.26	0.00	0.00
6.00	0.29	0.00	0.00
6.50	0.32	0.00	0.00
7.00	0.35	0.00	0.00
7.50	0.39	0.00	0.00
8.00	0.43	0.00	0.00
8.50	0.47	0.00	0.00
9.00	0.52	0.01	0.00
9.50	0.57	0.02	0.00
10.00	0.63	0.03	0.00
10.50	0.70	0.05	0.01
11.00	0.80	0.08	0.01
11.50	0.94	0.13	0.02
12.00	1.35	0.33	0.12
12.50	1.88	0.66	0.05
13.00	2.02	0.76	0.03
13.50	2.12	0.83	0.02
14.00	2.19	0.88	0.02
14.50	2.25	0.93	0.01
15.00	2.30	0.96	0.01
15.50	2.35	1.00	0.01
16.00	2.39	1.03	0.01
16.50	2.43	1.06	0.01
17.00	2.47	1.09	0.01
17.50	2.50	1.12	0.01
18.00	2.53	1.14	0.01
18.50	2.56	1.16	0.01
19.00	2.59	1.18	0.01
19.50	2.61	1.20	0.01
20.00	2.64	1.22	0.01
20.50	2.66	1.24	0.01
21.00	2.69	1.26	0.01
21.50	2.71	1.28	0.01
22.00	2.74	1.30	0.01
22.50	2.76	1.32	0.01
23.00	2.78	1.34	0.01
23.50	2.80	1.35	0.01
24.00	2.82	1.37	0.01

Subcatchment Post-Dev: Nethermont - Post Development

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 1yr Rainfall=2.82"

Prepared by {enter your company name here}

Printed 6/24/2022

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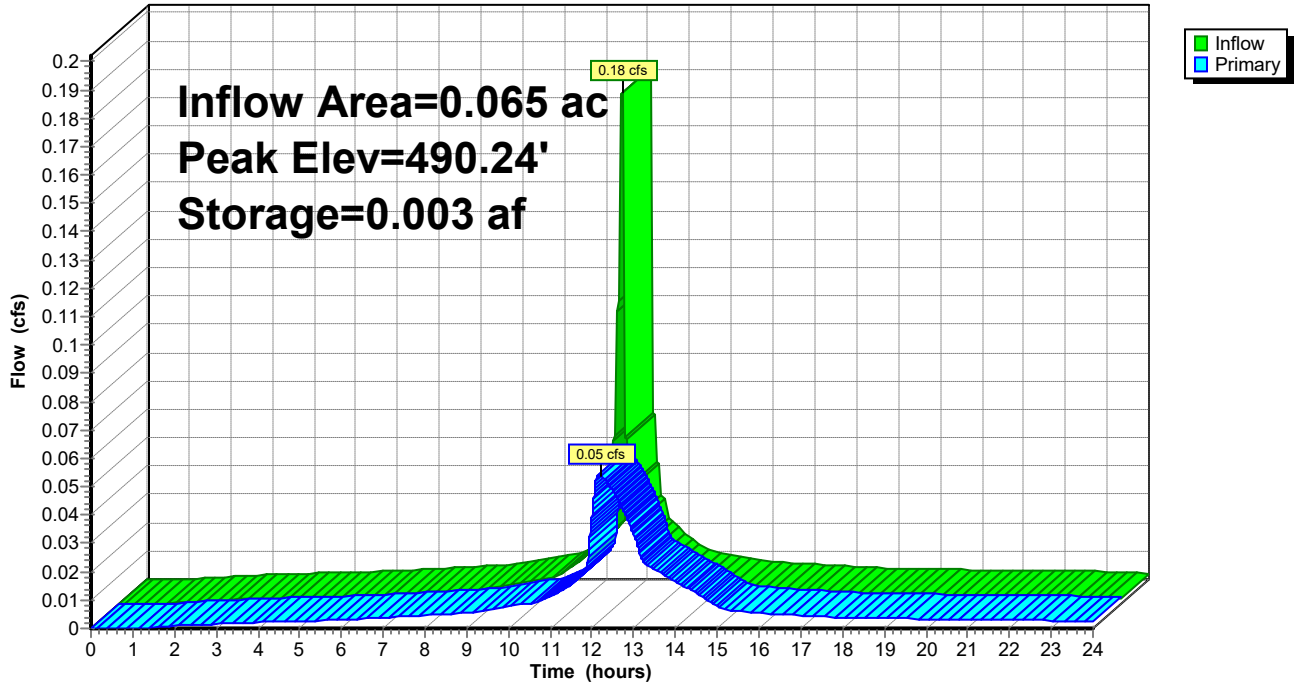
Page 5

Hydrograph for Subcatchment Post-Dev: Nethermont - Post Development

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.02	0.00	0.00
1.00	0.04	0.00	0.00
1.50	0.06	0.00	0.00
2.00	0.08	0.01	0.00
2.50	0.11	0.02	0.00
3.00	0.13	0.03	0.00
3.50	0.16	0.04	0.00
4.00	0.18	0.06	0.00
4.50	0.21	0.08	0.00
5.00	0.23	0.09	0.00
5.50	0.26	0.12	0.00
6.00	0.29	0.14	0.00
6.50	0.32	0.16	0.00
7.00	0.35	0.19	0.00
7.50	0.39	0.22	0.00
8.00	0.43	0.26	0.00
8.50	0.47	0.29	0.01
9.00	0.52	0.33	0.01
9.50	0.57	0.38	0.01
10.00	0.63	0.44	0.01
10.50	0.70	0.51	0.01
11.00	0.80	0.60	0.01
11.50	0.94	0.74	0.02
12.00	1.35	1.13	0.13
12.50	1.88	1.65	0.03
13.00	2.02	1.79	0.02
13.50	2.12	1.89	0.01
14.00	2.19	1.96	0.01
14.50	2.25	2.02	0.01
15.00	2.30	2.07	0.01
15.50	2.35	2.12	0.01
16.00	2.39	2.16	0.01
16.50	2.43	2.20	0.00
17.00	2.47	2.24	0.00
17.50	2.50	2.27	0.00
18.00	2.53	2.30	0.00
18.50	2.56	2.33	0.00
19.00	2.59	2.36	0.00
19.50	2.61	2.38	0.00
20.00	2.64	2.41	0.00
20.50	2.66	2.43	0.00
21.00	2.69	2.46	0.00
21.50	2.71	2.48	0.00
22.00	2.74	2.50	0.00
22.50	2.76	2.53	0.00
23.00	2.78	2.55	0.00
23.50	2.80	2.57	0.00
24.00	2.82	2.59	0.00

Pond Pipe: 30" Pipe

Hydrograph

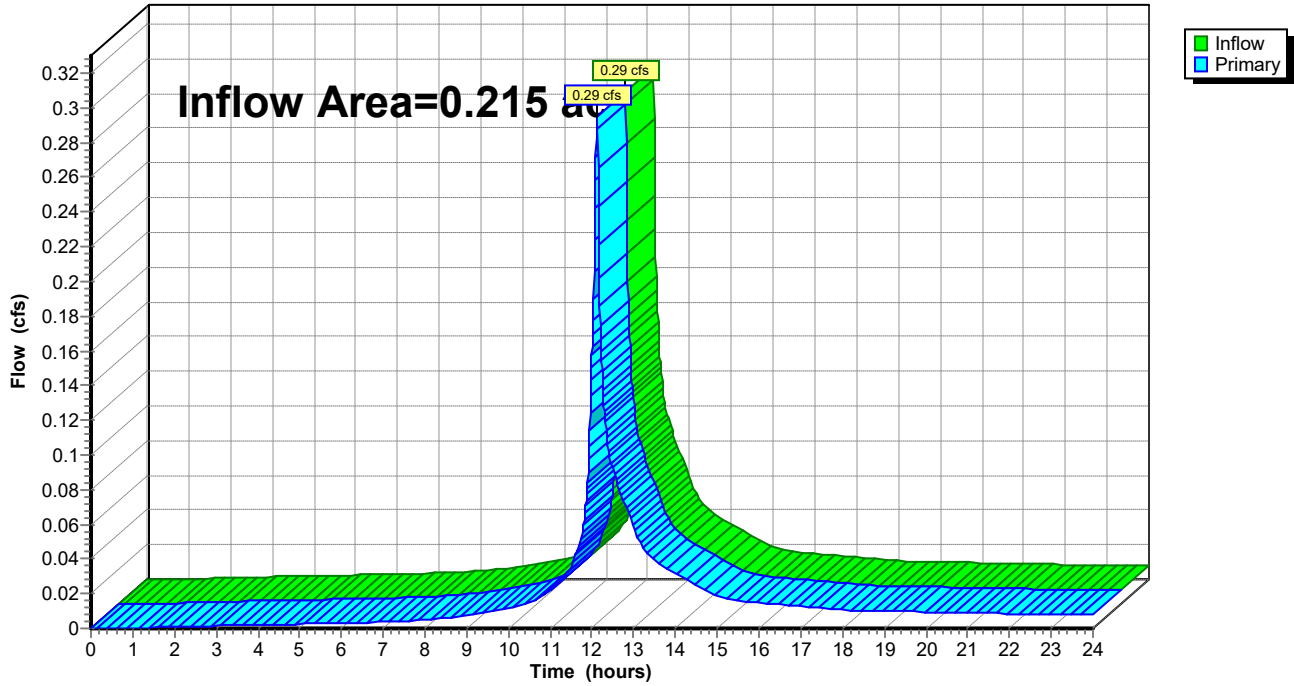


Hydrograph for Pond Pipe: 30" Pipe

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.000	489.50	0.00
0.50	0.00	0.000	489.50	0.00
1.00	0.00	0.000	489.50	0.00
1.50	0.00	0.000	489.50	0.00
2.00	0.00	0.000	489.51	0.00
2.50	0.00	0.000	489.51	0.00
3.00	0.00	0.000	489.52	0.00
3.50	0.00	0.000	489.52	0.00
4.00	0.00	0.000	489.53	0.00
4.50	0.00	0.000	489.53	0.00
5.00	0.00	0.000	489.53	0.00
5.50	0.00	0.000	489.53	0.00
6.00	0.00	0.000	489.53	0.00
6.50	0.00	0.000	489.53	0.00
7.00	0.00	0.000	489.54	0.00
7.50	0.00	0.000	489.54	0.00
8.00	0.00	0.000	489.54	0.00
8.50	0.01	0.000	489.54	0.01
9.00	0.01	0.000	489.55	0.01
9.50	0.01	0.000	489.55	0.01
10.00	0.01	0.000	489.57	0.01
10.50	0.01	0.000	489.58	0.01
11.00	0.01	0.000	489.62	0.01
11.50	0.02	0.000	489.69	0.02
12.00	0.13	0.002	490.01	0.04
12.50	0.03	0.002	490.15	0.05
13.00	0.02	0.001	489.95	0.03
13.50	0.01	0.001	489.83	0.02
14.00	0.01	0.000	489.72	0.02
14.50	0.01	0.000	489.63	0.01
15.00	0.01	0.000	489.57	0.01
15.50	0.01	0.000	489.55	0.01
16.00	0.01	0.000	489.55	0.01
16.50	0.00	0.000	489.54	0.00
17.00	0.00	0.000	489.54	0.00
17.50	0.00	0.000	489.54	0.00
18.00	0.00	0.000	489.54	0.00
18.50	0.00	0.000	489.53	0.00
19.00	0.00	0.000	489.53	0.00
19.50	0.00	0.000	489.53	0.00
20.00	0.00	0.000	489.53	0.00
20.50	0.00	0.000	489.53	0.00
21.00	0.00	0.000	489.53	0.00
21.50	0.00	0.000	489.53	0.00
22.00	0.00	0.000	489.53	0.00
22.50	0.00	0.000	489.53	0.00
23.00	0.00	0.000	489.53	0.00
23.50	0.00	0.000	489.53	0.00
24.00	0.00	0.000	489.53	0.00

Link Post: Post

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 1yr Rainfall=2.82"

Prepared by {enter your company name here}

Printed 6/24/2022

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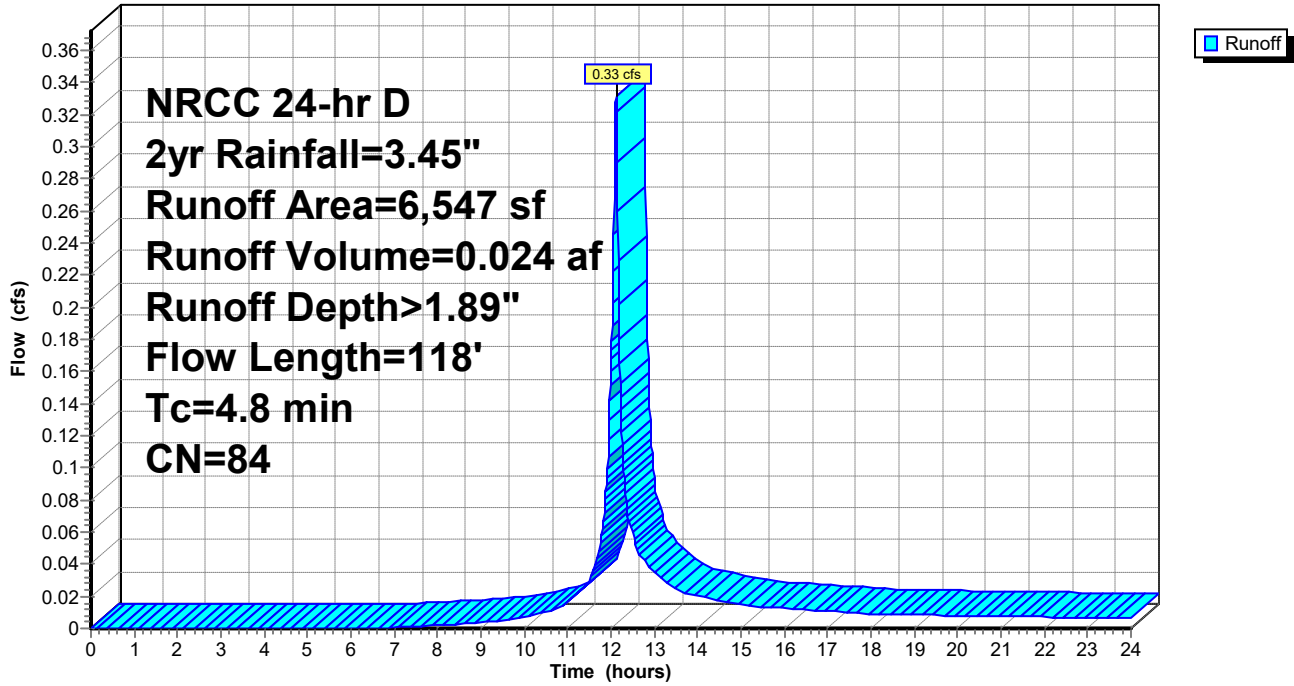
Page 9

Hydrograph for Link Post: Post

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00
1.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00
2.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00
3.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00
4.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00
5.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00
6.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00
7.00	0.00	0.00	0.00
7.50	0.00	0.00	0.00
8.00	0.01	0.00	0.01
8.50	0.01	0.00	0.01
9.00	0.01	0.00	0.01
9.50	0.01	0.00	0.01
10.00	0.01	0.00	0.01
10.50	0.01	0.00	0.01
11.00	0.02	0.00	0.02
11.50	0.03	0.00	0.03
12.00	0.16	0.00	0.16
12.50	0.09	0.00	0.09
13.00	0.06	0.00	0.06
13.50	0.04	0.00	0.04
14.00	0.03	0.00	0.03
14.50	0.03	0.00	0.03
15.00	0.02	0.00	0.02
15.50	0.02	0.00	0.02
16.00	0.01	0.00	0.01
16.50	0.01	0.00	0.01
17.00	0.01	0.00	0.01
17.50	0.01	0.00	0.01
18.00	0.01	0.00	0.01
18.50	0.01	0.00	0.01
19.00	0.01	0.00	0.01
19.50	0.01	0.00	0.01
20.00	0.01	0.00	0.01
20.50	0.01	0.00	0.01
21.00	0.01	0.00	0.01
21.50	0.01	0.00	0.01
22.00	0.01	0.00	0.01
22.50	0.01	0.00	0.01
23.00	0.01	0.00	0.01
23.50	0.01	0.00	0.01
24.00	0.01	0.00	0.01

Subcatchment Grass/Lawn: Grass

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 2yr Rainfall=3.45"

Prepared by {enter your company name here}

Printed 6/24/2022

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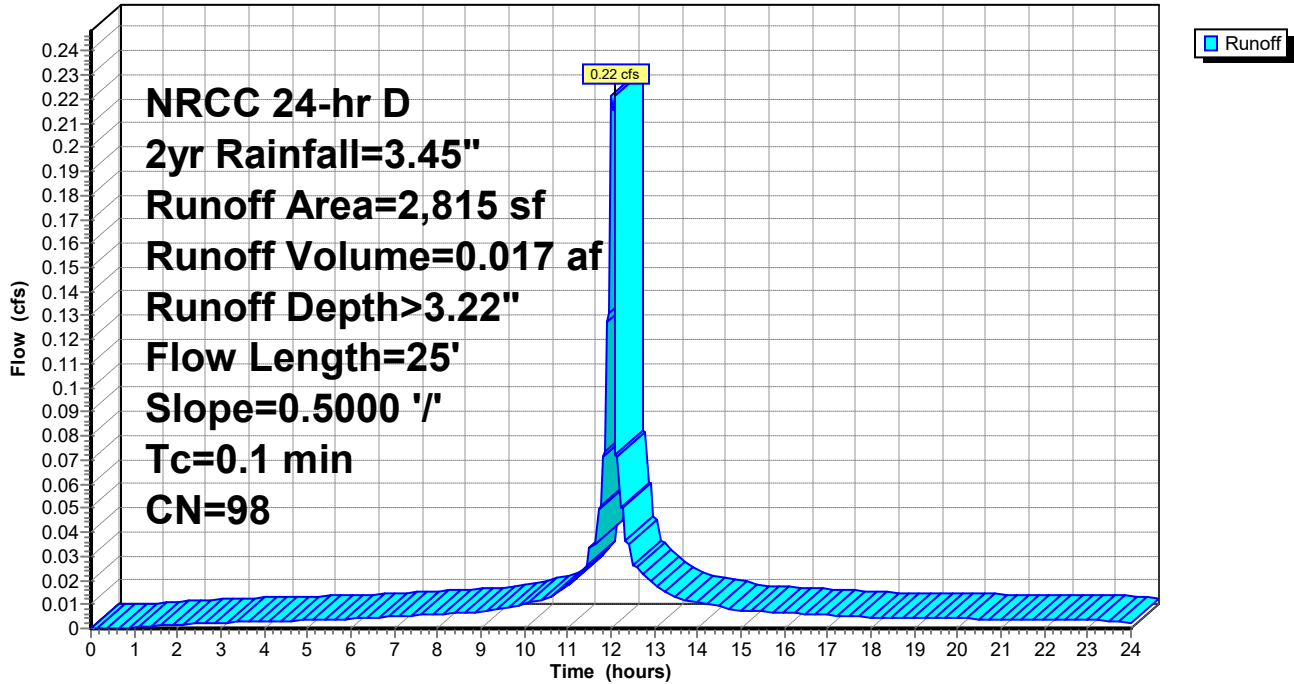
Page 11

Hydrograph for Subcatchment Grass/Lawn: Grass

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.02	0.00	0.00
1.00	0.05	0.00	0.00
1.50	0.08	0.00	0.00
2.00	0.10	0.00	0.00
2.50	0.13	0.00	0.00
3.00	0.16	0.00	0.00
3.50	0.19	0.00	0.00
4.00	0.22	0.00	0.00
4.50	0.25	0.00	0.00
5.00	0.29	0.00	0.00
5.50	0.32	0.00	0.00
6.00	0.36	0.00	0.00
6.50	0.39	0.00	0.00
7.00	0.43	0.00	0.00
7.50	0.48	0.00	0.00
8.00	0.53	0.01	0.00
8.50	0.58	0.02	0.00
9.00	0.63	0.03	0.00
9.50	0.70	0.05	0.01
10.00	0.77	0.07	0.01
10.50	0.86	0.10	0.01
11.00	0.98	0.14	0.02
11.50	1.16	0.22	0.03
12.00	1.65	0.51	0.17
12.50	2.29	0.96	0.06
13.00	2.47	1.09	0.04
13.50	2.59	1.18	0.02
14.00	2.68	1.25	0.02
14.50	2.75	1.32	0.02
15.00	2.82	1.37	0.01
15.50	2.87	1.41	0.01
16.00	2.92	1.45	0.01
16.50	2.97	1.49	0.01
17.00	3.02	1.53	0.01
17.50	3.06	1.56	0.01
18.00	3.09	1.59	0.01
18.50	3.13	1.62	0.01
19.00	3.16	1.65	0.01
19.50	3.20	1.68	0.01
20.00	3.23	1.71	0.01
20.50	3.26	1.73	0.01
21.00	3.29	1.76	0.01
21.50	3.32	1.78	0.01
22.00	3.35	1.81	0.01
22.50	3.37	1.83	0.01
23.00	3.40	1.85	0.01
23.50	3.43	1.87	0.01
24.00	3.45	1.89	0.01

Subcatchment Post-Dev: Nethermont - Post Development

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 2yr Rainfall=3.45"

Prepared by {enter your company name here}

Printed 6/24/2022

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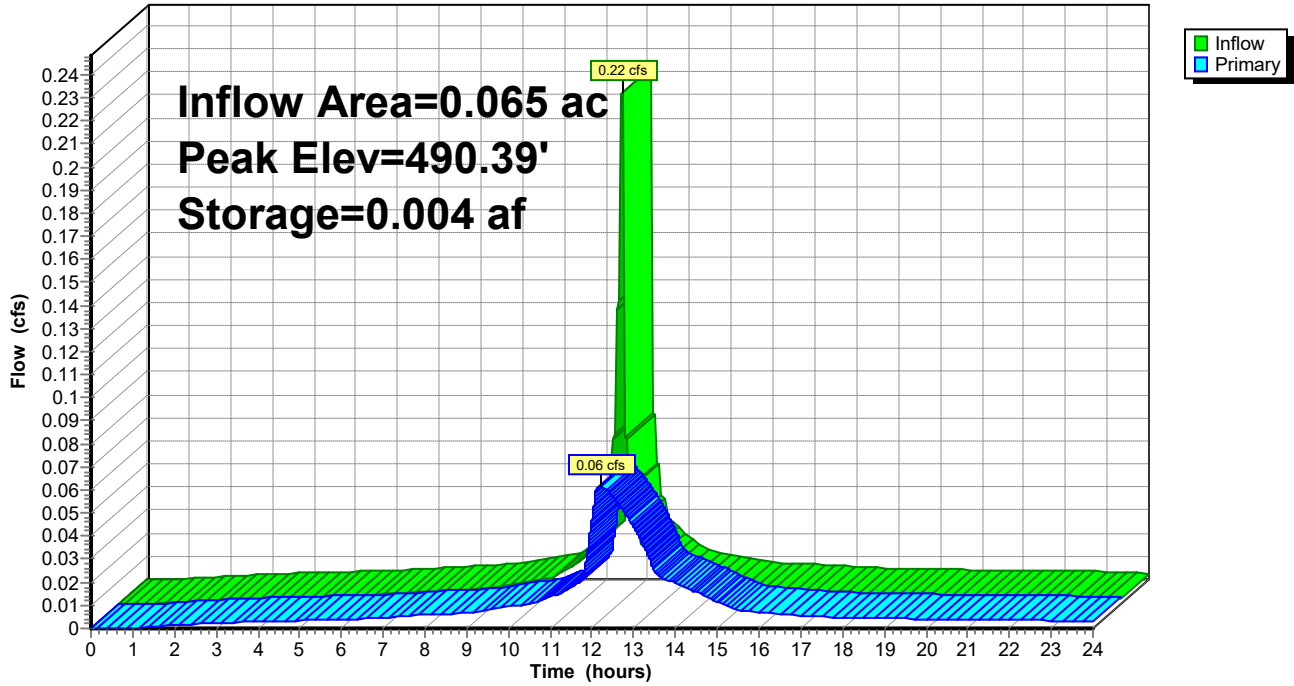
Page 13

Hydrograph for Subcatchment Post-Dev: Nethermont - Post Development

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.02	0.00	0.00
1.00	0.05	0.00	0.00
1.50	0.08	0.01	0.00
2.00	0.10	0.01	0.00
2.50	0.13	0.03	0.00
3.00	0.16	0.04	0.00
3.50	0.19	0.06	0.00
4.00	0.22	0.09	0.00
4.50	0.25	0.11	0.00
5.00	0.29	0.13	0.00
5.50	0.32	0.16	0.00
6.00	0.36	0.19	0.00
6.50	0.39	0.22	0.00
7.00	0.43	0.26	0.00
7.50	0.48	0.30	0.01
8.00	0.53	0.34	0.01
8.50	0.58	0.39	0.01
9.00	0.63	0.44	0.01
9.50	0.70	0.50	0.01
10.00	0.77	0.57	0.01
10.50	0.86	0.66	0.01
11.00	0.98	0.77	0.02
11.50	1.16	0.94	0.03
12.00	1.65	1.43	0.16
12.50	2.29	2.07	0.03
13.00	2.47	2.24	0.02
13.50	2.59	2.36	0.01
14.00	2.68	2.45	0.01
14.50	2.75	2.52	0.01
15.00	2.82	2.59	0.01
15.50	2.87	2.64	0.01
16.00	2.92	2.69	0.01
16.50	2.97	2.74	0.01
17.00	3.02	2.78	0.01
17.50	3.06	2.83	0.01
18.00	3.09	2.86	0.00
18.50	3.13	2.90	0.00
19.00	3.16	2.93	0.00
19.50	3.20	2.96	0.00
20.00	3.23	3.00	0.00
20.50	3.26	3.03	0.00
21.00	3.29	3.06	0.00
21.50	3.32	3.08	0.00
22.00	3.35	3.11	0.00
22.50	3.37	3.14	0.00
23.00	3.40	3.17	0.00
23.50	3.43	3.19	0.00
24.00	3.45	3.22	0.00

Pond Pipe: 30" Pipe

Hydrograph

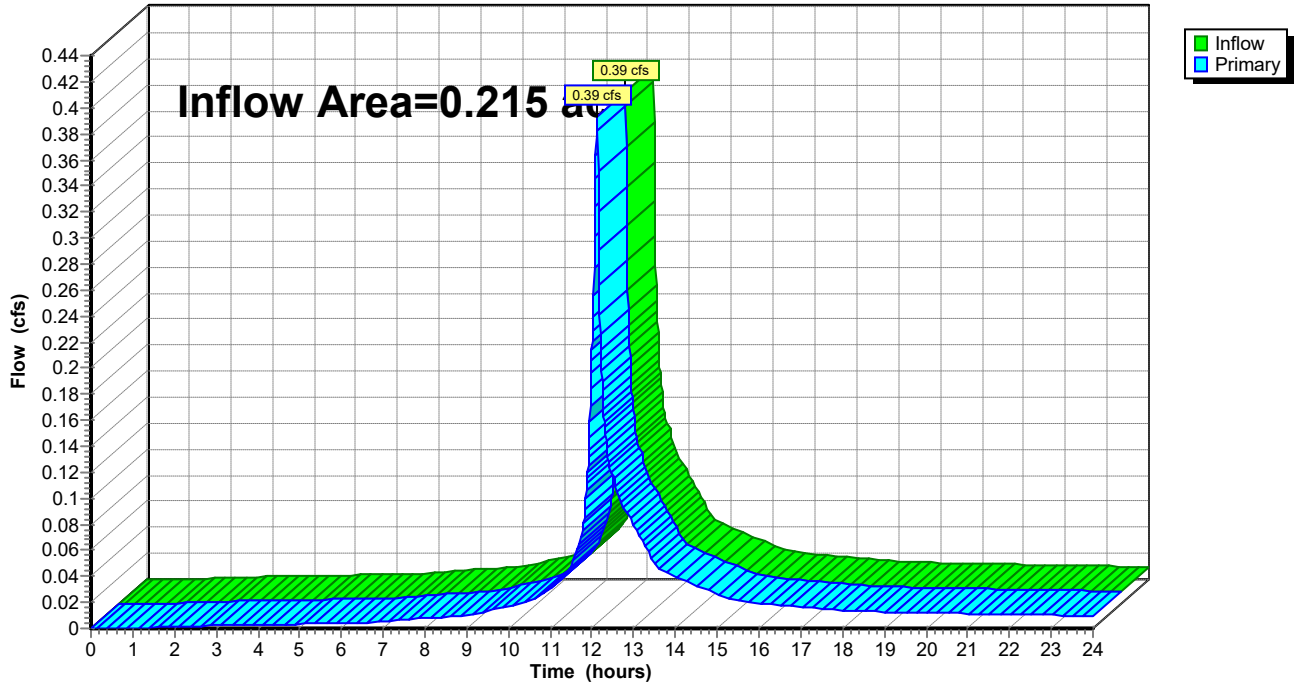


Hydrograph for Pond Pipe: 30" Pipe

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.000	489.50	0.00
0.50	0.00	0.000	489.50	0.00
1.00	0.00	0.000	489.50	0.00
1.50	0.00	0.000	489.51	0.00
2.00	0.00	0.000	489.52	0.00
2.50	0.00	0.000	489.52	0.00
3.00	0.00	0.000	489.53	0.00
3.50	0.00	0.000	489.53	0.00
4.00	0.00	0.000	489.53	0.00
4.50	0.00	0.000	489.53	0.00
5.00	0.00	0.000	489.53	0.00
5.50	0.00	0.000	489.53	0.00
6.00	0.00	0.000	489.54	0.00
6.50	0.00	0.000	489.54	0.00
7.00	0.00	0.000	489.54	0.00
7.50	0.01	0.000	489.55	0.01
8.00	0.01	0.000	489.55	0.01
8.50	0.01	0.000	489.55	0.01
9.00	0.01	0.000	489.56	0.01
9.50	0.01	0.000	489.57	0.01
10.00	0.01	0.000	489.59	0.01
10.50	0.01	0.000	489.60	0.01
11.00	0.02	0.000	489.65	0.01
11.50	0.03	0.001	489.74	0.02
12.00	0.16	0.002	490.11	0.05
12.50	0.03	0.003	490.30	0.06
13.00	0.02	0.002	490.08	0.04
13.50	0.01	0.001	489.90	0.02
14.00	0.01	0.001	489.79	0.02
14.50	0.01	0.000	489.70	0.02
15.00	0.01	0.000	489.62	0.01
15.50	0.01	0.000	489.57	0.01
16.00	0.01	0.000	489.56	0.01
16.50	0.01	0.000	489.55	0.01
17.00	0.01	0.000	489.55	0.01
17.50	0.01	0.000	489.54	0.01
18.00	0.00	0.000	489.54	0.00
18.50	0.00	0.000	489.54	0.00
19.00	0.00	0.000	489.54	0.00
19.50	0.00	0.000	489.54	0.00
20.00	0.00	0.000	489.54	0.00
20.50	0.00	0.000	489.54	0.00
21.00	0.00	0.000	489.54	0.00
21.50	0.00	0.000	489.54	0.00
22.00	0.00	0.000	489.53	0.00
22.50	0.00	0.000	489.53	0.00
23.00	0.00	0.000	489.53	0.00
23.50	0.00	0.000	489.53	0.00
24.00	0.00	0.000	489.53	0.00

Link Post: Post

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 2yr Rainfall=3.45"

Prepared by {enter your company name here}

Printed 6/24/2022

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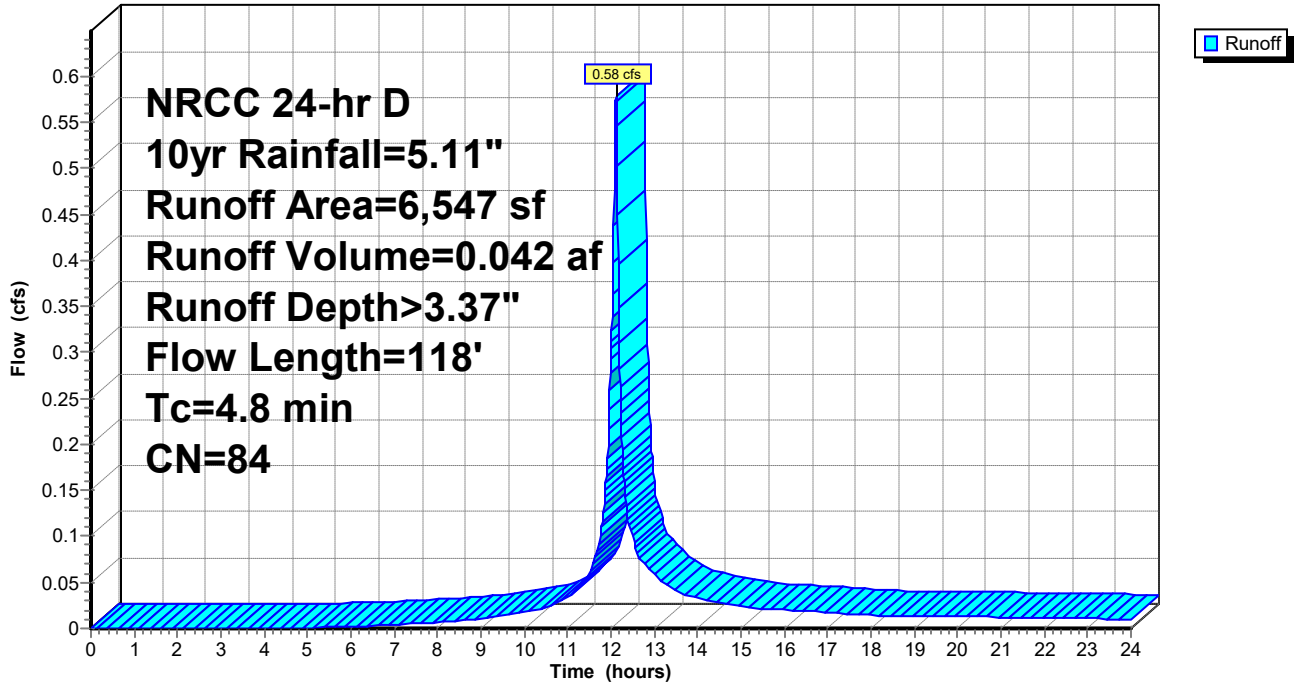
Page 17

Hydrograph for Link Post: Post

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00
1.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00
2.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00
3.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00
4.00	0.00	0.00	0.00
4.50	0.00	0.00	0.00
5.00	0.00	0.00	0.00
5.50	0.00	0.00	0.00
6.00	0.00	0.00	0.00
6.50	0.00	0.00	0.00
7.00	0.01	0.00	0.01
7.50	0.01	0.00	0.01
8.00	0.01	0.00	0.01
8.50	0.01	0.00	0.01
9.00	0.01	0.00	0.01
9.50	0.01	0.00	0.01
10.00	0.02	0.00	0.02
10.50	0.02	0.00	0.02
11.00	0.03	0.00	0.03
11.50	0.05	0.00	0.05
12.00	0.21	0.00	0.21
12.50	0.12	0.00	0.12
13.00	0.08	0.00	0.08
13.50	0.05	0.00	0.05
14.00	0.04	0.00	0.04
14.50	0.03	0.00	0.03
15.00	0.03	0.00	0.03
15.50	0.02	0.00	0.02
16.00	0.02	0.00	0.02
16.50	0.02	0.00	0.02
17.00	0.02	0.00	0.02
17.50	0.02	0.00	0.02
18.00	0.01	0.00	0.01
18.50	0.01	0.00	0.01
19.00	0.01	0.00	0.01
19.50	0.01	0.00	0.01
20.00	0.01	0.00	0.01
20.50	0.01	0.00	0.01
21.00	0.01	0.00	0.01
21.50	0.01	0.00	0.01
22.00	0.01	0.00	0.01
22.50	0.01	0.00	0.01
23.00	0.01	0.00	0.01
23.50	0.01	0.00	0.01
24.00	0.01	0.00	0.01

Subcatchment Grass/Lawn: Grass

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 10yr Rainfall=5.11"

Prepared by {enter your company name here}

Printed 6/24/2022

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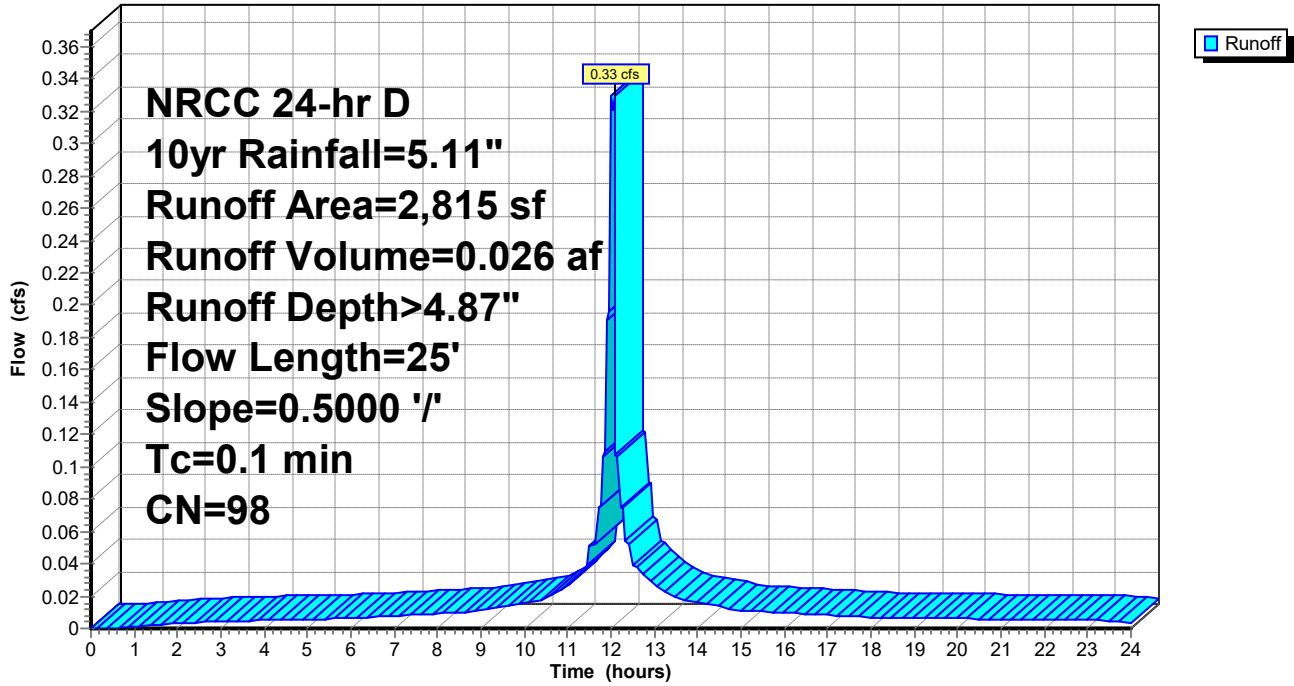
Page 19

Hydrograph for Subcatchment Grass/Lawn: Grass

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.04	0.00	0.00
1.00	0.07	0.00	0.00
1.50	0.11	0.00	0.00
2.00	0.15	0.00	0.00
2.50	0.20	0.00	0.00
3.00	0.24	0.00	0.00
3.50	0.28	0.00	0.00
4.00	0.33	0.00	0.00
4.50	0.38	0.00	0.00
5.00	0.43	0.00	0.00
5.50	0.48	0.00	0.00
6.00	0.53	0.01	0.00
6.50	0.58	0.02	0.00
7.00	0.64	0.03	0.00
7.50	0.71	0.05	0.01
8.00	0.78	0.07	0.01
8.50	0.86	0.09	0.01
9.00	0.94	0.13	0.01
9.50	1.03	0.17	0.01
10.00	1.15	0.22	0.02
10.50	1.28	0.29	0.02
11.00	1.45	0.39	0.03
11.50	1.71	0.55	0.06
12.00	2.45	1.08	0.30
12.50	3.40	1.85	0.10
13.00	3.66	2.07	0.06
13.50	3.83	2.23	0.04
14.00	3.96	2.34	0.03
14.50	4.08	2.44	0.03
15.00	4.17	2.52	0.02
15.50	4.25	2.60	0.02
16.00	4.33	2.66	0.02
16.50	4.40	2.73	0.02
17.00	4.47	2.79	0.02
17.50	4.53	2.84	0.02
18.00	4.58	2.89	0.01
18.50	4.63	2.94	0.01
19.00	4.68	2.98	0.01
19.50	4.73	3.03	0.01
20.00	4.78	3.07	0.01
20.50	4.83	3.11	0.01
21.00	4.87	3.15	0.01
21.50	4.91	3.19	0.01
22.00	4.96	3.23	0.01
22.50	5.00	3.27	0.01
23.00	5.04	3.30	0.01
23.50	5.07	3.34	0.01
24.00	5.11	3.37	0.01

Subcatchment Post-Dev: Nethermont - Post Development

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 10yr Rainfall=5.11"

Prepared by {enter your company name here}

Printed 6/24/2022

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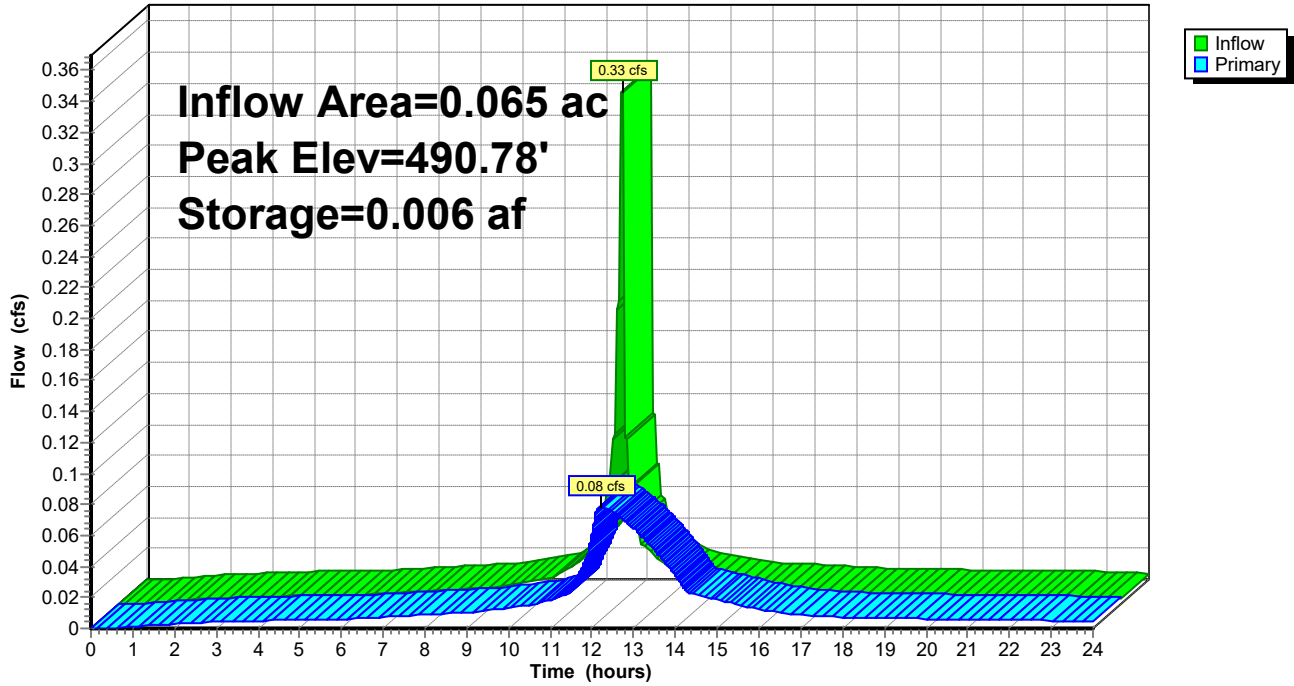
Page 21

Hydrograph for Subcatchment Post-Dev: Nethermont - Post Development

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.04	0.00	0.00
1.00	0.07	0.00	0.00
1.50	0.11	0.02	0.00
2.00	0.15	0.04	0.00
2.50	0.20	0.07	0.00
3.00	0.24	0.10	0.00
3.50	0.28	0.13	0.00
4.00	0.33	0.17	0.01
4.50	0.38	0.21	0.01
5.00	0.43	0.25	0.01
5.50	0.48	0.30	0.01
6.00	0.53	0.34	0.01
6.50	0.58	0.39	0.01
7.00	0.64	0.45	0.01
7.50	0.71	0.51	0.01
8.00	0.78	0.58	0.01
8.50	0.86	0.65	0.01
9.00	0.94	0.73	0.01
9.50	1.03	0.82	0.01
10.00	1.15	0.93	0.02
10.50	1.28	1.06	0.02
11.00	1.45	1.23	0.03
11.50	1.71	1.49	0.04
12.00	2.45	2.22	0.24
12.50	3.40	3.16	0.05
13.00	3.66	3.42	0.03
13.50	3.83	3.60	0.02
14.00	3.96	3.73	0.02
14.50	4.08	3.84	0.01
15.00	4.17	3.94	0.01
15.50	4.25	4.02	0.01
16.00	4.33	4.10	0.01
16.50	4.40	4.17	0.01
17.00	4.47	4.23	0.01
17.50	4.53	4.29	0.01
18.00	4.58	4.35	0.01
18.50	4.63	4.40	0.01
19.00	4.68	4.45	0.01
19.50	4.73	4.50	0.01
20.00	4.78	4.54	0.01
20.50	4.83	4.59	0.01
21.00	4.87	4.63	0.01
21.50	4.91	4.68	0.01
22.00	4.96	4.72	0.01
22.50	5.00	4.76	0.01
23.00	5.04	4.80	0.01
23.50	5.07	4.84	0.00
24.00	5.11	4.87	0.00

Pond Pipe: 30" Pipe

Hydrograph

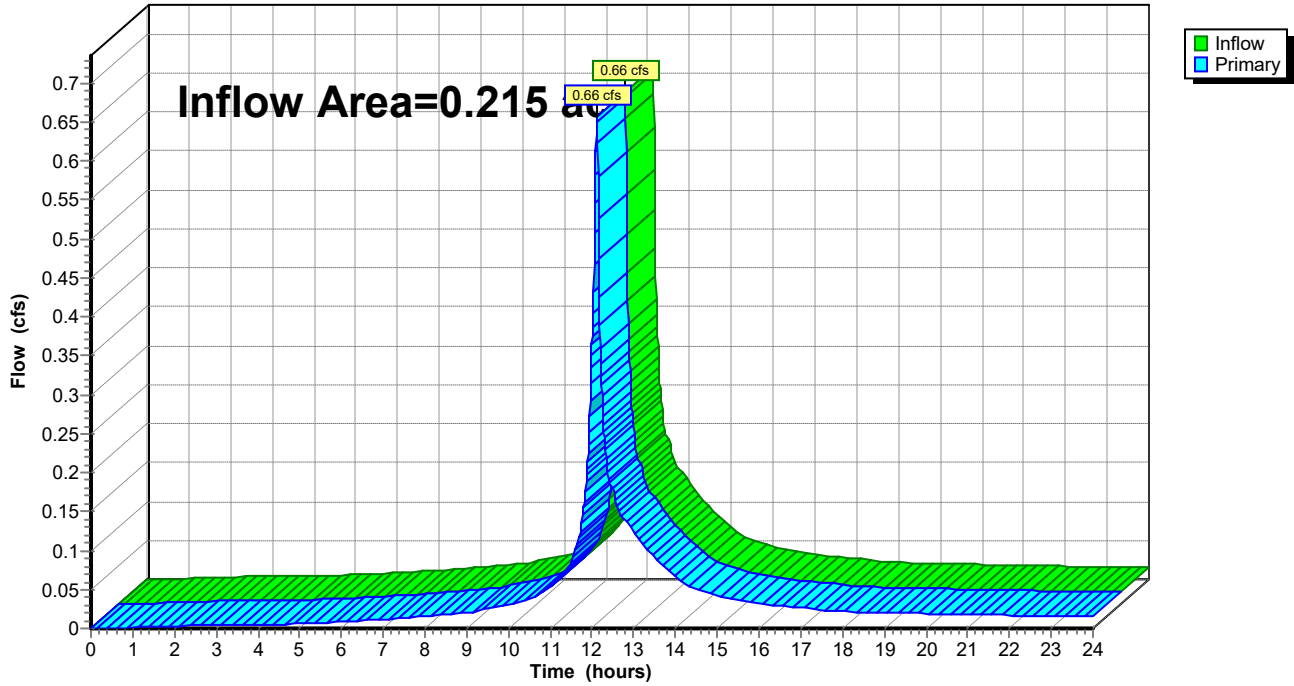


Hydrograph for Pond Pipe: 30" Pipe

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.000	489.50	0.00
0.50	0.00	0.000	489.50	0.00
1.00	0.00	0.000	489.51	0.00
1.50	0.00	0.000	489.53	0.00
2.00	0.00	0.000	489.53	0.00
2.50	0.00	0.000	489.53	0.00
3.00	0.00	0.000	489.54	0.00
3.50	0.00	0.000	489.54	0.00
4.00	0.01	0.000	489.54	0.00
4.50	0.01	0.000	489.55	0.01
5.00	0.01	0.000	489.55	0.01
5.50	0.01	0.000	489.55	0.01
6.00	0.01	0.000	489.55	0.01
6.50	0.01	0.000	489.56	0.01
7.00	0.01	0.000	489.56	0.01
7.50	0.01	0.000	489.57	0.01
8.00	0.01	0.000	489.58	0.01
8.50	0.01	0.000	489.59	0.01
9.00	0.01	0.000	489.60	0.01
9.50	0.01	0.000	489.62	0.01
10.00	0.02	0.000	489.65	0.01
10.50	0.02	0.000	489.68	0.02
11.00	0.03	0.001	489.76	0.02
11.50	0.04	0.001	489.90	0.02
12.00	0.24	0.003	490.36	0.06
12.50	0.05	0.005	490.71	0.08
13.00	0.03	0.004	490.45	0.06
13.50	0.02	0.002	490.18	0.05
14.00	0.02	0.001	489.96	0.03
14.50	0.01	0.001	489.85	0.02
15.00	0.01	0.001	489.77	0.02
15.50	0.01	0.000	489.69	0.02
16.00	0.01	0.000	489.63	0.01
16.50	0.01	0.000	489.60	0.01
17.00	0.01	0.000	489.58	0.01
17.50	0.01	0.000	489.57	0.01
18.00	0.01	0.000	489.56	0.01
18.50	0.01	0.000	489.56	0.01
19.00	0.01	0.000	489.56	0.01
19.50	0.01	0.000	489.55	0.01
20.00	0.01	0.000	489.55	0.01
20.50	0.01	0.000	489.55	0.01
21.00	0.01	0.000	489.55	0.01
21.50	0.01	0.000	489.55	0.01
22.00	0.01	0.000	489.55	0.01
22.50	0.01	0.000	489.55	0.01
23.00	0.01	0.000	489.54	0.01
23.50	0.00	0.000	489.54	0.00
24.00	0.00	0.000	489.54	0.00

Link Post: Post

Hydrograph

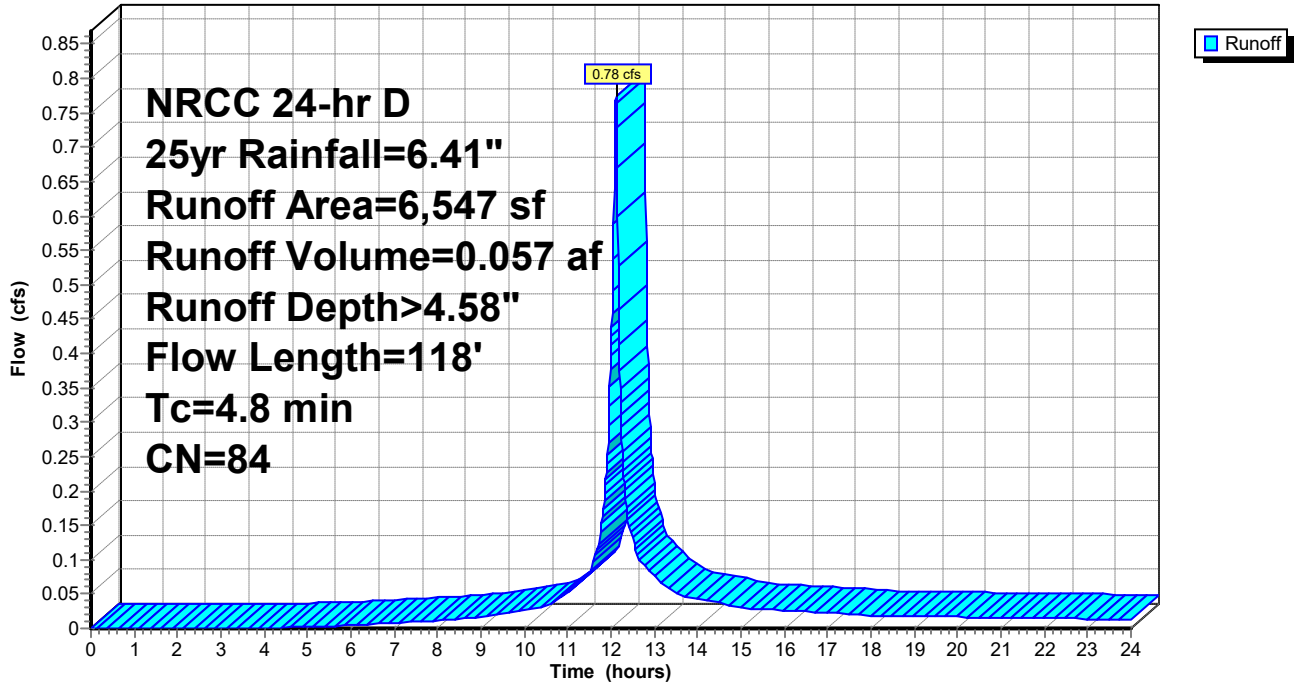


Hydrograph for Link Post: Post

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00
1.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00
2.00	0.00	0.00	0.00
2.50	0.00	0.00	0.00
3.00	0.00	0.00	0.00
3.50	0.00	0.00	0.00
4.00	0.00	0.00	0.00
4.50	0.01	0.00	0.01
5.00	0.01	0.00	0.01
5.50	0.01	0.00	0.01
6.00	0.01	0.00	0.01
6.50	0.01	0.00	0.01
7.00	0.01	0.00	0.01
7.50	0.01	0.00	0.01
8.00	0.02	0.00	0.02
8.50	0.02	0.00	0.02
9.00	0.02	0.00	0.02
9.50	0.03	0.00	0.03
10.00	0.03	0.00	0.03
10.50	0.04	0.00	0.04
11.00	0.05	0.00	0.05
11.50	0.08	0.00	0.08
12.00	0.36	0.00	0.36
12.50	0.18	0.00	0.18
13.00	0.12	0.00	0.12
13.50	0.09	0.00	0.09
14.00	0.07	0.00	0.07
14.50	0.05	0.00	0.05
15.00	0.04	0.00	0.04
15.50	0.04	0.00	0.04
16.00	0.03	0.00	0.03
16.50	0.03	0.00	0.03
17.00	0.03	0.00	0.03
17.50	0.02	0.00	0.02
18.00	0.02	0.00	0.02
18.50	0.02	0.00	0.02
19.00	0.02	0.00	0.02
19.50	0.02	0.00	0.02
20.00	0.02	0.00	0.02
20.50	0.02	0.00	0.02
21.00	0.02	0.00	0.02
21.50	0.02	0.00	0.02
22.00	0.02	0.00	0.02
22.50	0.02	0.00	0.02
23.00	0.02	0.00	0.02
23.50	0.02	0.00	0.02
24.00	0.02	0.00	0.02

Subcatchment Grass/Lawn: Grass

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 25yr Rainfall=6.41"

Prepared by {enter your company name here}

Printed 6/24/2022

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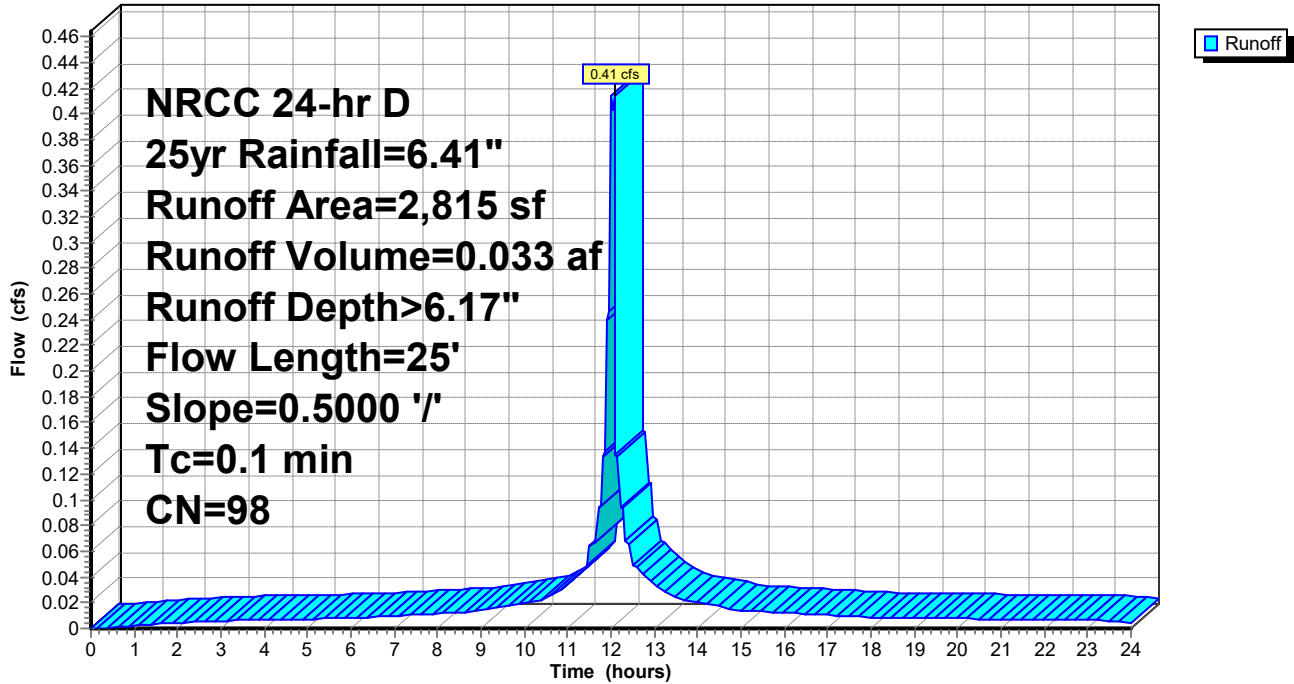
Page 27

Hydrograph for Subcatchment Grass/Lawn: Grass

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.05	0.00	0.00
1.00	0.09	0.00	0.00
1.50	0.14	0.00	0.00
2.00	0.19	0.00	0.00
2.50	0.25	0.00	0.00
3.00	0.30	0.00	0.00
3.50	0.36	0.00	0.00
4.00	0.41	0.00	0.00
4.50	0.47	0.00	0.00
5.00	0.53	0.01	0.00
5.50	0.60	0.02	0.00
6.00	0.66	0.04	0.00
6.50	0.73	0.05	0.01
7.00	0.81	0.08	0.01
7.50	0.89	0.11	0.01
8.00	0.98	0.14	0.01
8.50	1.07	0.18	0.01
9.00	1.18	0.23	0.02
9.50	1.30	0.30	0.02
10.00	1.44	0.38	0.03
10.50	1.60	0.48	0.03
11.00	1.82	0.62	0.05
11.50	2.15	0.85	0.08
12.00	3.07	1.57	0.41
12.50	4.26	2.60	0.13
13.00	4.59	2.90	0.08
13.50	4.81	3.10	0.05
14.00	4.97	3.25	0.04
14.50	5.11	3.38	0.04
15.00	5.23	3.48	0.03
15.50	5.34	3.58	0.03
16.00	5.43	3.67	0.03
16.50	5.52	3.75	0.02
17.00	5.60	3.83	0.02
17.50	5.68	3.90	0.02
18.00	5.75	3.96	0.02
18.50	5.81	4.02	0.02
19.00	5.88	4.08	0.02
19.50	5.94	4.14	0.02
20.00	6.00	4.19	0.02
20.50	6.05	4.25	0.02
21.00	6.11	4.30	0.02
21.50	6.16	4.35	0.02
22.00	6.22	4.40	0.01
22.50	6.27	4.45	0.01
23.00	6.32	4.49	0.01
23.50	6.36	4.54	0.01
24.00	6.41	4.58	0.01

Subcatchment Post-Dev: Nethermont - Post Development

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 25yr Rainfall=6.41"

Prepared by {enter your company name here}

Printed 6/24/2022

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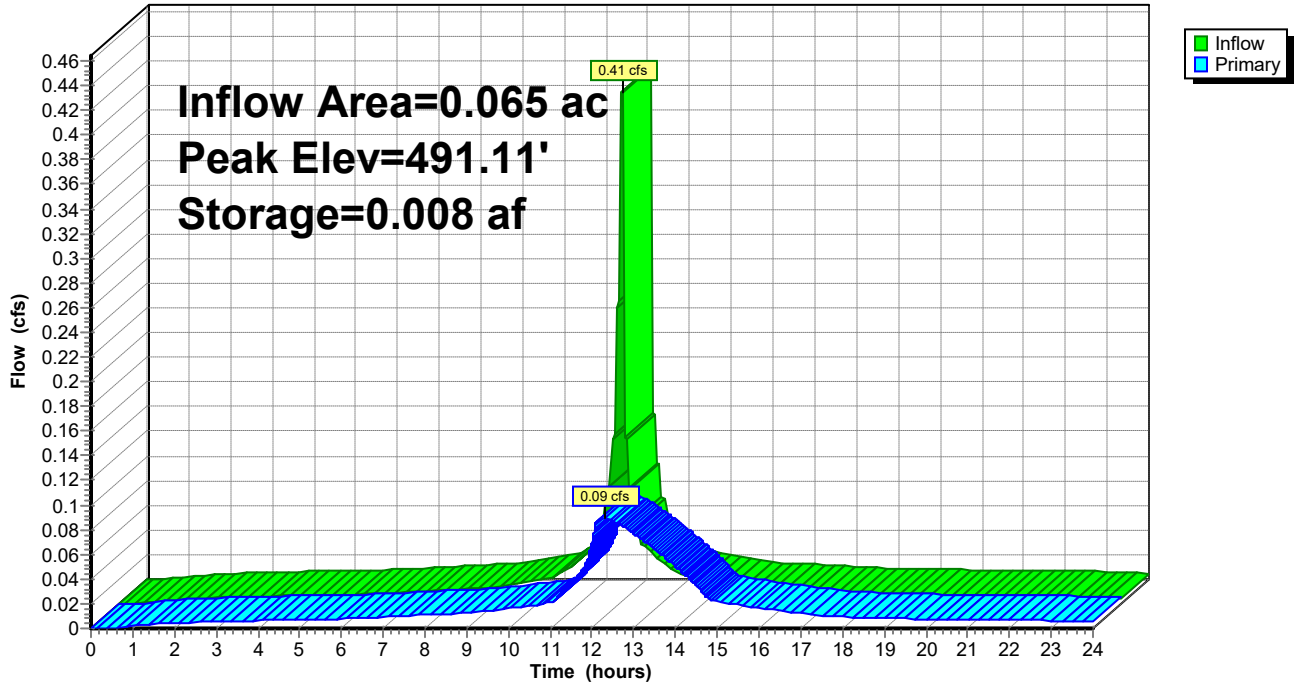
Page 29

Hydrograph for Subcatchment Post-Dev: Nethermont - Post Development

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.05	0.00	0.00
1.00	0.09	0.01	0.00
1.50	0.14	0.03	0.00
2.00	0.19	0.07	0.00
2.50	0.25	0.10	0.01
3.00	0.30	0.14	0.01
3.50	0.36	0.19	0.01
4.00	0.41	0.24	0.01
4.50	0.47	0.29	0.01
5.00	0.53	0.35	0.01
5.50	0.60	0.41	0.01
6.00	0.66	0.47	0.01
6.50	0.73	0.53	0.01
7.00	0.81	0.60	0.01
7.50	0.89	0.68	0.01
8.00	0.98	0.77	0.01
8.50	1.07	0.86	0.01
9.00	1.18	0.96	0.01
9.50	1.30	1.08	0.02
10.00	1.44	1.22	0.02
10.50	1.60	1.38	0.02
11.00	1.82	1.60	0.03
11.50	2.15	1.92	0.05
12.00	3.07	2.84	0.30
12.50	4.26	4.03	0.06
13.00	4.59	4.35	0.03
13.50	4.81	4.57	0.02
14.00	4.97	4.74	0.02
14.50	5.11	4.88	0.02
15.00	5.23	5.00	0.01
15.50	5.34	5.10	0.01
16.00	5.43	5.20	0.01
16.50	5.52	5.28	0.01
17.00	5.60	5.37	0.01
17.50	5.68	5.44	0.01
18.00	5.75	5.51	0.01
18.50	5.81	5.58	0.01
19.00	5.88	5.64	0.01
19.50	5.94	5.70	0.01
20.00	6.00	5.76	0.01
20.50	6.05	5.82	0.01
21.00	6.11	5.87	0.01
21.50	6.16	5.93	0.01
22.00	6.22	5.98	0.01
22.50	6.27	6.03	0.01
23.00	6.32	6.08	0.01
23.50	6.36	6.13	0.01
24.00	6.41	6.17	0.00

Pond Pipe: 30" Pipe

Hydrograph

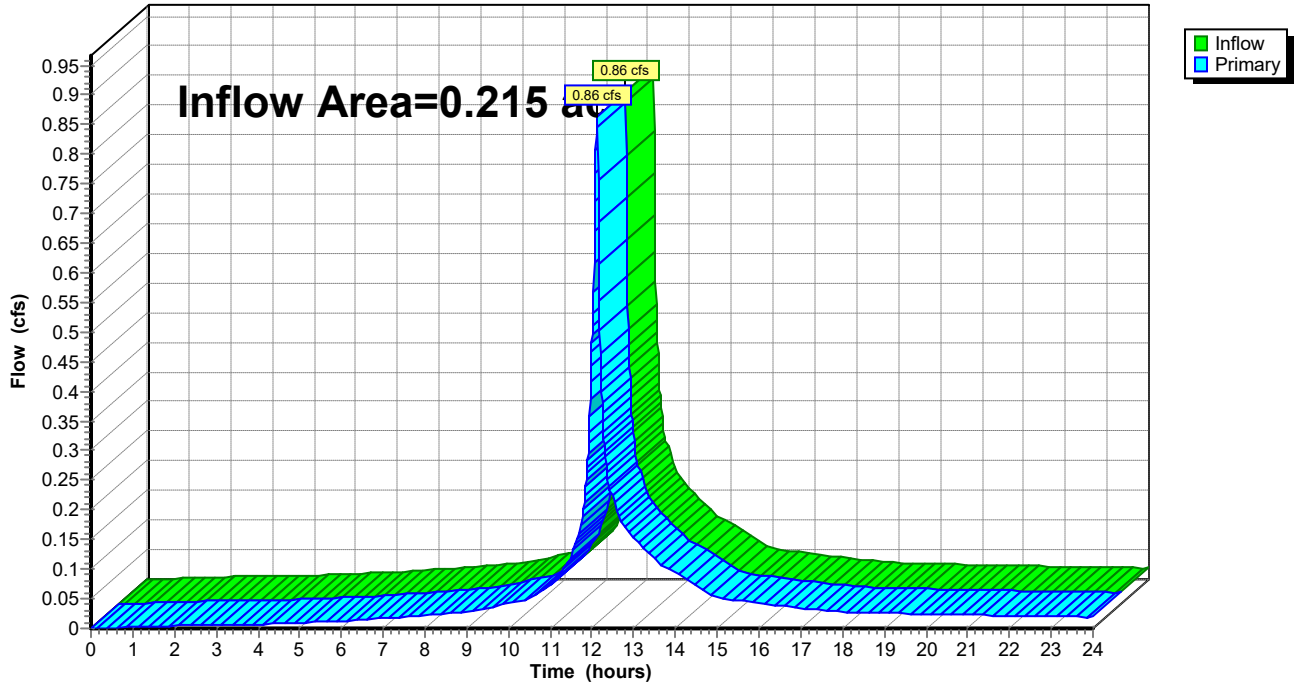


Hydrograph for Pond Pipe: 30" Pipe

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.000	489.50	0.00
0.50	0.00	0.000	489.50	0.00
1.00	0.00	0.000	489.52	0.00
1.50	0.00	0.000	489.53	0.00
2.00	0.00	0.000	489.54	0.00
2.50	0.01	0.000	489.54	0.01
3.00	0.01	0.000	489.55	0.01
3.50	0.01	0.000	489.55	0.01
4.00	0.01	0.000	489.56	0.01
4.50	0.01	0.000	489.56	0.01
5.00	0.01	0.000	489.56	0.01
5.50	0.01	0.000	489.57	0.01
6.00	0.01	0.000	489.57	0.01
6.50	0.01	0.000	489.58	0.01
7.00	0.01	0.000	489.59	0.01
7.50	0.01	0.000	489.60	0.01
8.00	0.01	0.000	489.61	0.01
8.50	0.01	0.000	489.62	0.01
9.00	0.01	0.000	489.64	0.01
9.50	0.02	0.000	489.67	0.01
10.00	0.02	0.000	489.71	0.02
10.50	0.02	0.001	489.76	0.02
11.00	0.03	0.001	489.85	0.02
11.50	0.05	0.002	489.98	0.04
12.00	0.30	0.004	490.55	0.07
12.50	0.06	0.007	491.05	0.09
13.00	0.03	0.006	490.76	0.08
13.50	0.02	0.004	490.45	0.06
14.00	0.02	0.002	490.17	0.05
14.50	0.02	0.001	489.97	0.03
15.00	0.01	0.001	489.86	0.02
15.50	0.01	0.001	489.78	0.02
16.00	0.01	0.000	489.72	0.02
16.50	0.01	0.000	489.67	0.01
17.00	0.01	0.000	489.63	0.01
17.50	0.01	0.000	489.60	0.01
18.00	0.01	0.000	489.59	0.01
18.50	0.01	0.000	489.58	0.01
19.00	0.01	0.000	489.57	0.01
19.50	0.01	0.000	489.57	0.01
20.00	0.01	0.000	489.57	0.01
20.50	0.01	0.000	489.57	0.01
21.00	0.01	0.000	489.56	0.01
21.50	0.01	0.000	489.56	0.01
22.00	0.01	0.000	489.56	0.01
22.50	0.01	0.000	489.56	0.01
23.00	0.01	0.000	489.55	0.01
23.50	0.01	0.000	489.55	0.01
24.00	0.00	0.000	489.55	0.01

Link Post: Post

Hydrograph

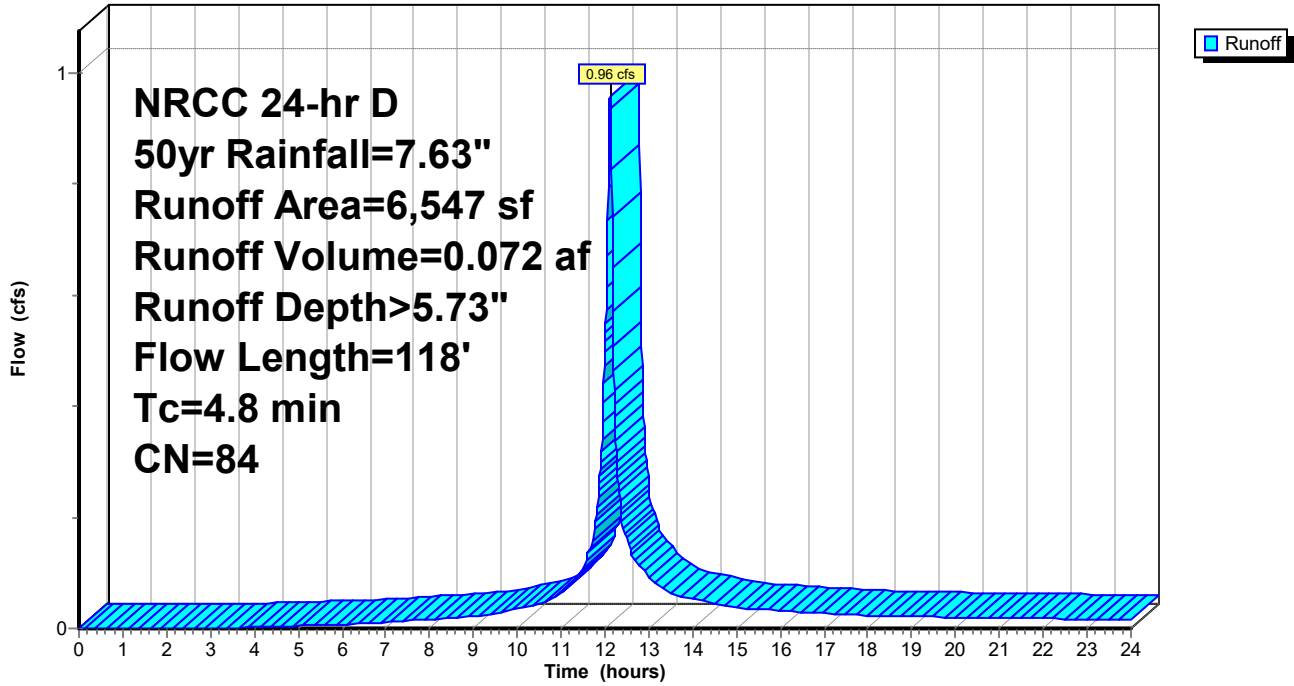


Hydrograph for Link Post: Post

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00
1.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00
2.00	0.00	0.00	0.00
2.50	0.01	0.00	0.01
3.00	0.01	0.00	0.01
3.50	0.01	0.00	0.01
4.00	0.01	0.00	0.01
4.50	0.01	0.00	0.01
5.00	0.01	0.00	0.01
5.50	0.01	0.00	0.01
6.00	0.01	0.00	0.01
6.50	0.01	0.00	0.01
7.00	0.02	0.00	0.02
7.50	0.02	0.00	0.02
8.00	0.02	0.00	0.02
8.50	0.03	0.00	0.03
9.00	0.03	0.00	0.03
9.50	0.03	0.00	0.03
10.00	0.04	0.00	0.04
10.50	0.05	0.00	0.05
11.00	0.07	0.00	0.07
11.50	0.12	0.00	0.12
12.00	0.48	0.00	0.48
12.50	0.22	0.00	0.22
13.00	0.15	0.00	0.15
13.50	0.12	0.00	0.12
14.00	0.09	0.00	0.09
14.50	0.07	0.00	0.07
15.00	0.05	0.00	0.05
15.50	0.05	0.00	0.05
16.00	0.04	0.00	0.04
16.50	0.04	0.00	0.04
17.00	0.03	0.00	0.03
17.50	0.03	0.00	0.03
18.00	0.03	0.00	0.03
18.50	0.03	0.00	0.03
19.00	0.03	0.00	0.03
19.50	0.03	0.00	0.03
20.00	0.02	0.00	0.02
20.50	0.02	0.00	0.02
21.00	0.02	0.00	0.02
21.50	0.02	0.00	0.02
22.00	0.02	0.00	0.02
22.50	0.02	0.00	0.02
23.00	0.02	0.00	0.02
23.50	0.02	0.00	0.02
24.00	0.02	0.00	0.02

Subcatchment Grass/Lawn: Grass

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 50yr Rainfall=7.63"

Prepared by {enter your company name here}

Printed 6/24/2022

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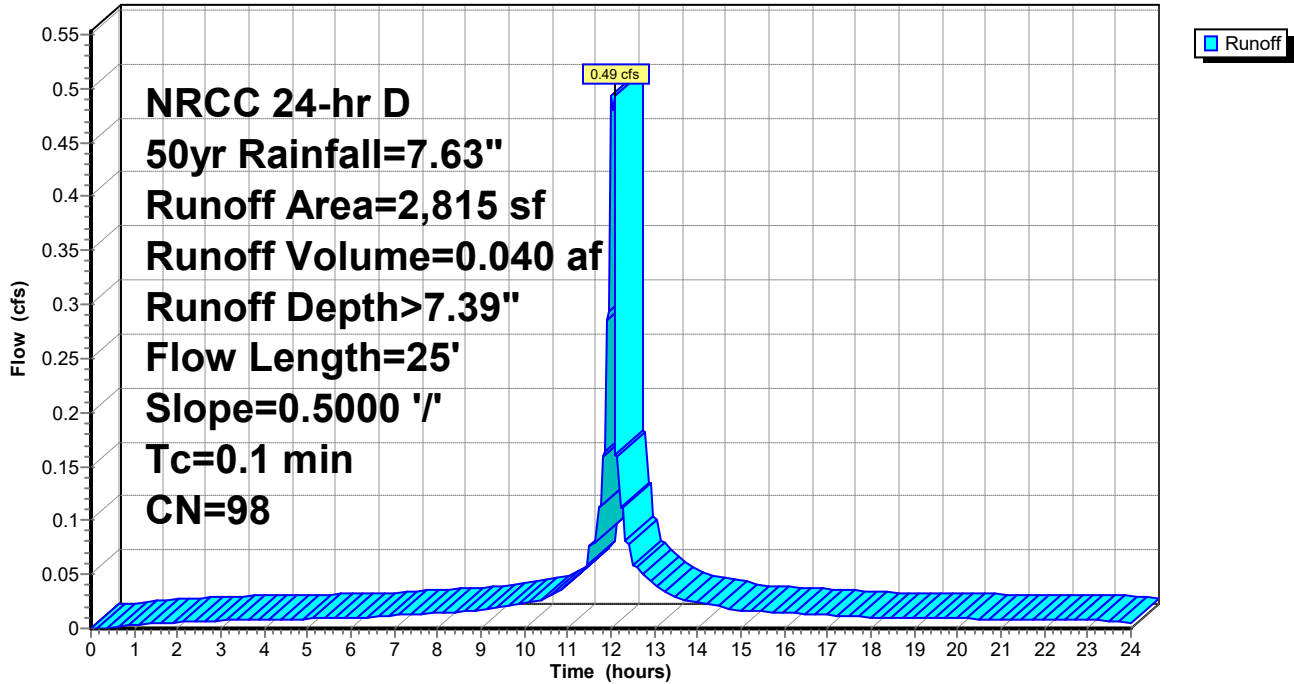
Page 35

Hydrograph for Subcatchment Grass/Lawn: Grass

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.05	0.00	0.00
1.00	0.11	0.00	0.00
1.50	0.17	0.00	0.00
2.00	0.23	0.00	0.00
2.50	0.29	0.00	0.00
3.00	0.36	0.00	0.00
3.50	0.42	0.00	0.00
4.00	0.49	0.01	0.00
4.50	0.56	0.02	0.00
5.00	0.63	0.03	0.00
5.50	0.71	0.05	0.01
6.00	0.79	0.07	0.01
6.50	0.87	0.10	0.01
7.00	0.96	0.13	0.01
7.50	1.06	0.18	0.01
8.00	1.16	0.23	0.02
8.50	1.28	0.29	0.02
9.00	1.40	0.36	0.02
9.50	1.54	0.44	0.03
10.00	1.71	0.55	0.03
10.50	1.91	0.68	0.04
11.00	2.17	0.86	0.06
11.50	2.56	1.16	0.10
12.00	3.66	2.07	0.52
12.50	5.07	3.34	0.16
13.00	5.46	3.70	0.09
13.50	5.72	3.94	0.06
14.00	5.92	4.12	0.05
14.50	6.09	4.28	0.05
15.00	6.23	4.41	0.04
15.50	6.35	4.53	0.03
16.00	6.47	4.64	0.03
16.50	6.57	4.74	0.03
17.00	6.67	4.83	0.03
17.50	6.76	4.91	0.03
18.00	6.84	4.99	0.02
18.50	6.92	5.06	0.02
19.00	7.00	5.14	0.02
19.50	7.07	5.20	0.02
20.00	7.14	5.27	0.02
20.50	7.21	5.34	0.02
21.00	7.27	5.40	0.02
21.50	7.34	5.46	0.02
22.00	7.40	5.52	0.02
22.50	7.46	5.58	0.02
23.00	7.52	5.63	0.02
23.50	7.58	5.69	0.02
24.00	7.63	5.74	0.02

Subcatchment Post-Dev: Nethermont - Post Development

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 50yr Rainfall=7.63"

Prepared by {enter your company name here}

Printed 6/24/2022

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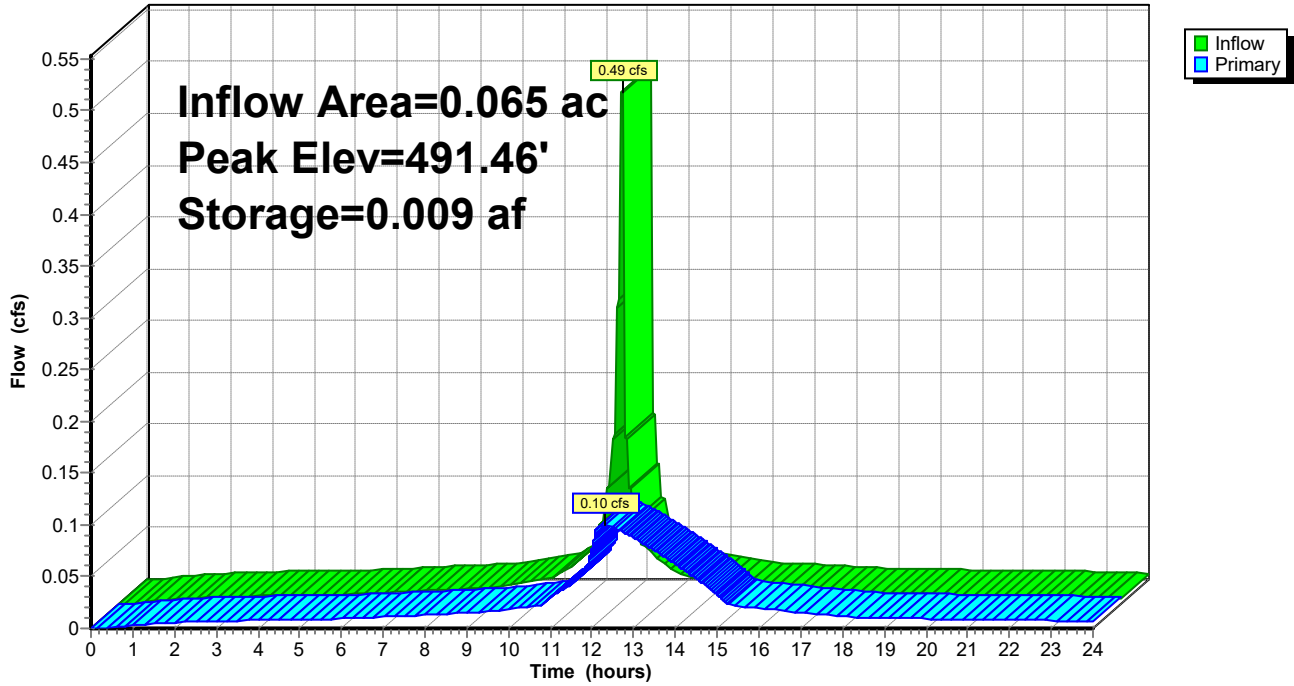
Page 37

Hydrograph for Subcatchment Post-Dev: Nethermont - Post Development

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.05	0.00	0.00
1.00	0.11	0.02	0.00
1.50	0.17	0.05	0.00
2.00	0.23	0.09	0.01
2.50	0.29	0.14	0.01
3.00	0.36	0.19	0.01
3.50	0.42	0.25	0.01
4.00	0.49	0.31	0.01
4.50	0.56	0.37	0.01
5.00	0.63	0.44	0.01
5.50	0.71	0.51	0.01
6.00	0.79	0.58	0.01
6.50	0.87	0.66	0.01
7.00	0.96	0.75	0.01
7.50	1.06	0.85	0.01
8.00	1.16	0.95	0.01
8.50	1.28	1.06	0.02
9.00	1.40	1.18	0.02
9.50	1.54	1.32	0.02
10.00	1.71	1.49	0.02
10.50	1.91	1.68	0.03
11.00	2.17	1.94	0.04
11.50	2.56	2.33	0.06
12.00	3.66	3.42	0.36
12.50	5.07	4.84	0.07
13.00	5.46	5.23	0.04
13.50	5.72	5.49	0.03
14.00	5.92	5.68	0.02
14.50	6.09	5.85	0.02
15.00	6.23	5.99	0.02
15.50	6.35	6.11	0.02
16.00	6.47	6.23	0.01
16.50	6.57	6.33	0.01
17.00	6.67	6.43	0.01
17.50	6.76	6.52	0.01
18.00	6.84	6.61	0.01
18.50	6.92	6.68	0.01
19.00	7.00	6.76	0.01
19.50	7.07	6.83	0.01
20.00	7.14	6.90	0.01
20.50	7.21	6.97	0.01
21.00	7.27	7.03	0.01
21.50	7.34	7.10	0.01
22.00	7.40	7.16	0.01
22.50	7.46	7.22	0.01
23.00	7.52	7.28	0.01
23.50	7.58	7.34	0.01
24.00	7.63	7.39	0.00

Pond Pipe: 30" Pipe

Hydrograph

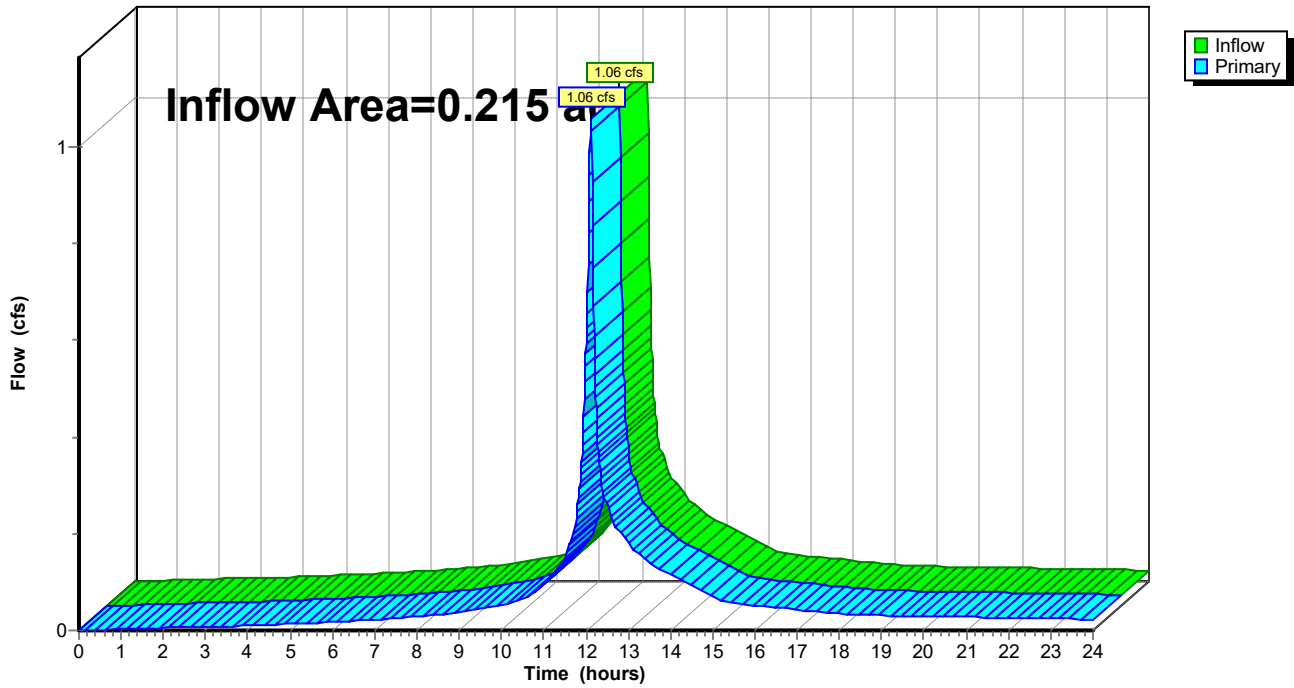


Hydrograph for Pond Pipe: 30" Pipe

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.000	489.50	0.00
0.50	0.00	0.000	489.50	0.00
1.00	0.00	0.000	489.53	0.00
1.50	0.00	0.000	489.54	0.00
2.00	0.01	0.000	489.55	0.01
2.50	0.01	0.000	489.55	0.01
3.00	0.01	0.000	489.56	0.01
3.50	0.01	0.000	489.57	0.01
4.00	0.01	0.000	489.57	0.01
4.50	0.01	0.000	489.57	0.01
5.00	0.01	0.000	489.58	0.01
5.50	0.01	0.000	489.58	0.01
6.00	0.01	0.000	489.59	0.01
6.50	0.01	0.000	489.60	0.01
7.00	0.01	0.000	489.61	0.01
7.50	0.01	0.000	489.63	0.01
8.00	0.01	0.000	489.64	0.01
8.50	0.02	0.000	489.66	0.01
9.00	0.02	0.000	489.68	0.01
9.50	0.02	0.000	489.71	0.02
10.00	0.02	0.001	489.77	0.02
10.50	0.03	0.001	489.83	0.02
11.00	0.04	0.001	489.93	0.03
11.50	0.06	0.002	490.06	0.04
12.00	0.36	0.006	490.73	0.08
12.50	0.07	0.009	491.39	0.10
13.00	0.04	0.007	491.06	0.09
13.50	0.03	0.005	490.72	0.08
14.00	0.02	0.004	490.40	0.06
14.50	0.02	0.002	490.14	0.05
15.00	0.02	0.001	489.95	0.03
15.50	0.02	0.001	489.86	0.02
16.00	0.01	0.001	489.80	0.02
16.50	0.01	0.001	489.74	0.02
17.00	0.01	0.000	489.69	0.02
17.50	0.01	0.000	489.65	0.01
18.00	0.01	0.000	489.62	0.01
18.50	0.01	0.000	489.60	0.01
19.00	0.01	0.000	489.59	0.01
19.50	0.01	0.000	489.59	0.01
20.00	0.01	0.000	489.59	0.01
20.50	0.01	0.000	489.58	0.01
21.00	0.01	0.000	489.58	0.01
21.50	0.01	0.000	489.57	0.01
22.00	0.01	0.000	489.57	0.01
22.50	0.01	0.000	489.57	0.01
23.00	0.01	0.000	489.57	0.01
23.50	0.01	0.000	489.56	0.01
24.00	0.00	0.000	489.56	0.01

Link Post: Post

Hydrograph

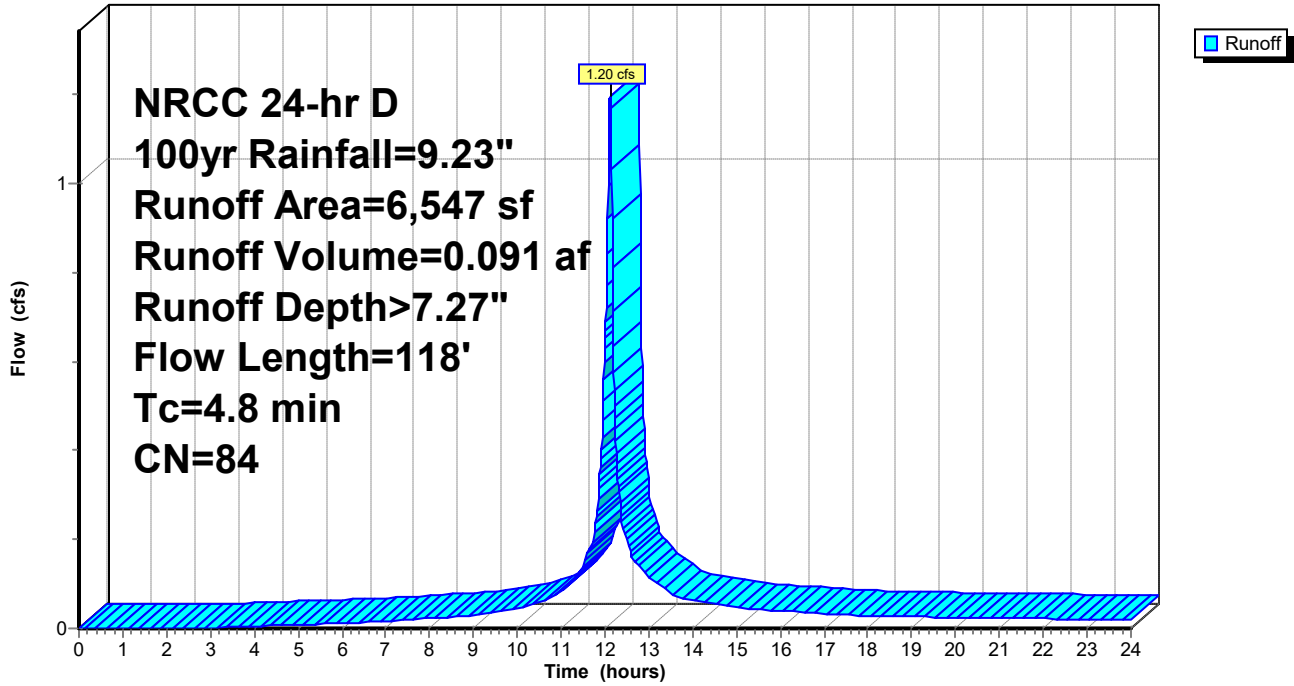


Hydrograph for Link Post: Post

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00
1.00	0.00	0.00	0.00
1.50	0.00	0.00	0.00
2.00	0.01	0.00	0.01
2.50	0.01	0.00	0.01
3.00	0.01	0.00	0.01
3.50	0.01	0.00	0.01
4.00	0.01	0.00	0.01
4.50	0.01	0.00	0.01
5.00	0.01	0.00	0.01
5.50	0.02	0.00	0.02
6.00	0.02	0.00	0.02
6.50	0.02	0.00	0.02
7.00	0.02	0.00	0.02
7.50	0.03	0.00	0.03
8.00	0.03	0.00	0.03
8.50	0.03	0.00	0.03
9.00	0.04	0.00	0.04
9.50	0.04	0.00	0.04
10.00	0.05	0.00	0.05
10.50	0.06	0.00	0.06
11.00	0.09	0.00	0.09
11.50	0.15	0.00	0.15
12.00	0.59	0.00	0.59
12.50	0.26	0.00	0.26
13.00	0.18	0.00	0.18
13.50	0.14	0.00	0.14
14.00	0.11	0.00	0.11
14.50	0.09	0.00	0.09
15.00	0.07	0.00	0.07
15.50	0.06	0.00	0.06
16.00	0.05	0.00	0.05
16.50	0.05	0.00	0.05
17.00	0.04	0.00	0.04
17.50	0.04	0.00	0.04
18.00	0.03	0.00	0.03
18.50	0.03	0.00	0.03
19.00	0.03	0.00	0.03
19.50	0.03	0.00	0.03
20.00	0.03	0.00	0.03
20.50	0.03	0.00	0.03
21.00	0.03	0.00	0.03
21.50	0.03	0.00	0.03
22.00	0.03	0.00	0.03
22.50	0.03	0.00	0.03
23.00	0.02	0.00	0.02
23.50	0.02	0.00	0.02
24.00	0.02	0.00	0.02

Subcatchment Grass/Lawn: Grass

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 100yr Rainfall=9.23"

Prepared by {enter your company name here}

Printed 6/24/2022

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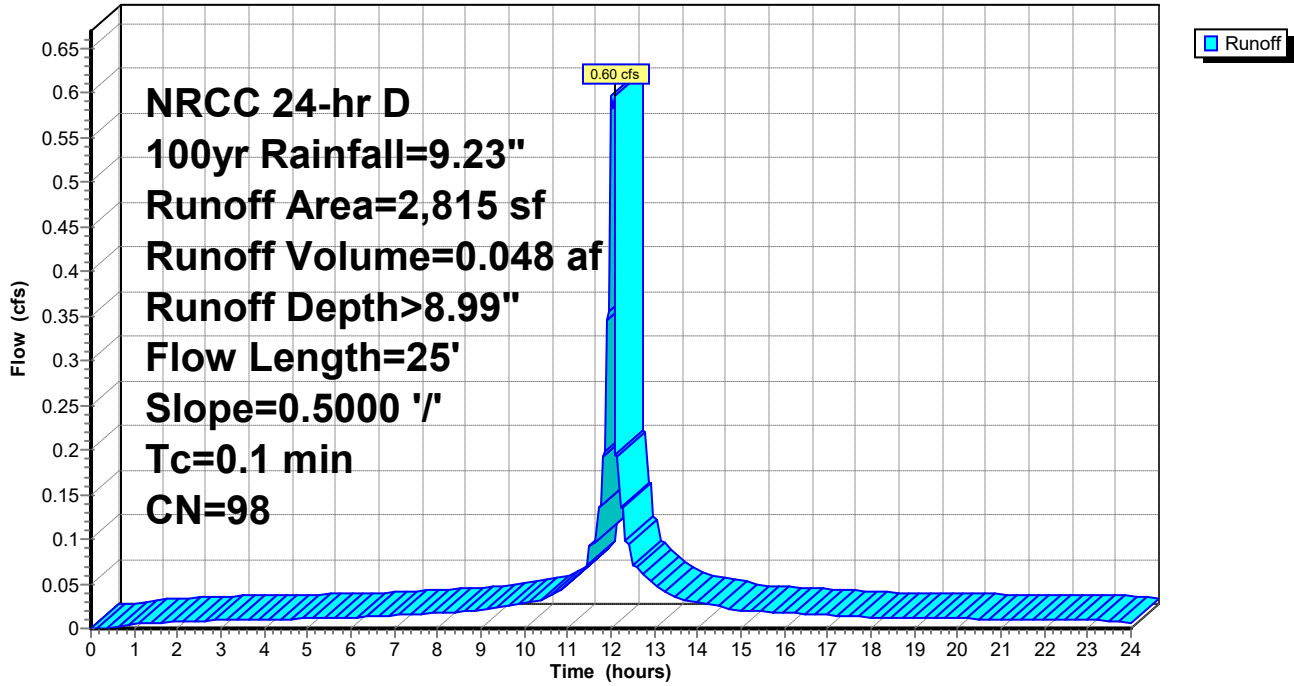
Page 43

Hydrograph for Subcatchment Grass/Lawn: Grass

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.07	0.00	0.00
1.00	0.13	0.00	0.00
1.50	0.20	0.00	0.00
2.00	0.28	0.00	0.00
2.50	0.35	0.00	0.00
3.00	0.43	0.00	0.00
3.50	0.51	0.01	0.00
4.00	0.59	0.02	0.00
4.50	0.68	0.04	0.01
5.00	0.77	0.07	0.01
5.50	0.86	0.10	0.01
6.00	0.95	0.13	0.01
6.50	1.05	0.17	0.01
7.00	1.16	0.23	0.02
7.50	1.28	0.29	0.02
8.00	1.41	0.36	0.02
8.50	1.55	0.44	0.03
9.00	1.69	0.54	0.03
9.50	1.87	0.65	0.04
10.00	2.07	0.79	0.05
10.50	2.31	0.97	0.06
11.00	2.62	1.21	0.08
11.50	3.09	1.59	0.13
12.00	4.42	2.75	0.65
12.50	6.14	4.33	0.20
13.00	6.61	4.77	0.12
13.50	6.92	5.07	0.08
14.00	7.16	5.29	0.06
14.50	7.36	5.49	0.06
15.00	7.54	5.65	0.05
15.50	7.68	5.79	0.04
16.00	7.82	5.93	0.04
16.50	7.95	6.05	0.04
17.00	8.07	6.16	0.03
17.50	8.18	6.27	0.03
18.00	8.28	6.36	0.03
18.50	8.37	6.45	0.03
19.00	8.46	6.54	0.03
19.50	8.55	6.62	0.03
20.00	8.64	6.71	0.02
20.50	8.72	6.79	0.02
21.00	8.80	6.86	0.02
21.50	8.88	6.94	0.02
22.00	8.95	7.01	0.02
22.50	9.03	7.08	0.02
23.00	9.10	7.15	0.02
23.50	9.16	7.22	0.02
24.00	9.23	7.28	0.02

Subcatchment Post-Dev: Nethermont - Post Development

Hydrograph



Nethermont Lot May2022

NRCC 24-hr D 100yr Rainfall=9.23"

Prepared by {enter your company name here}

Printed 6/24/2022

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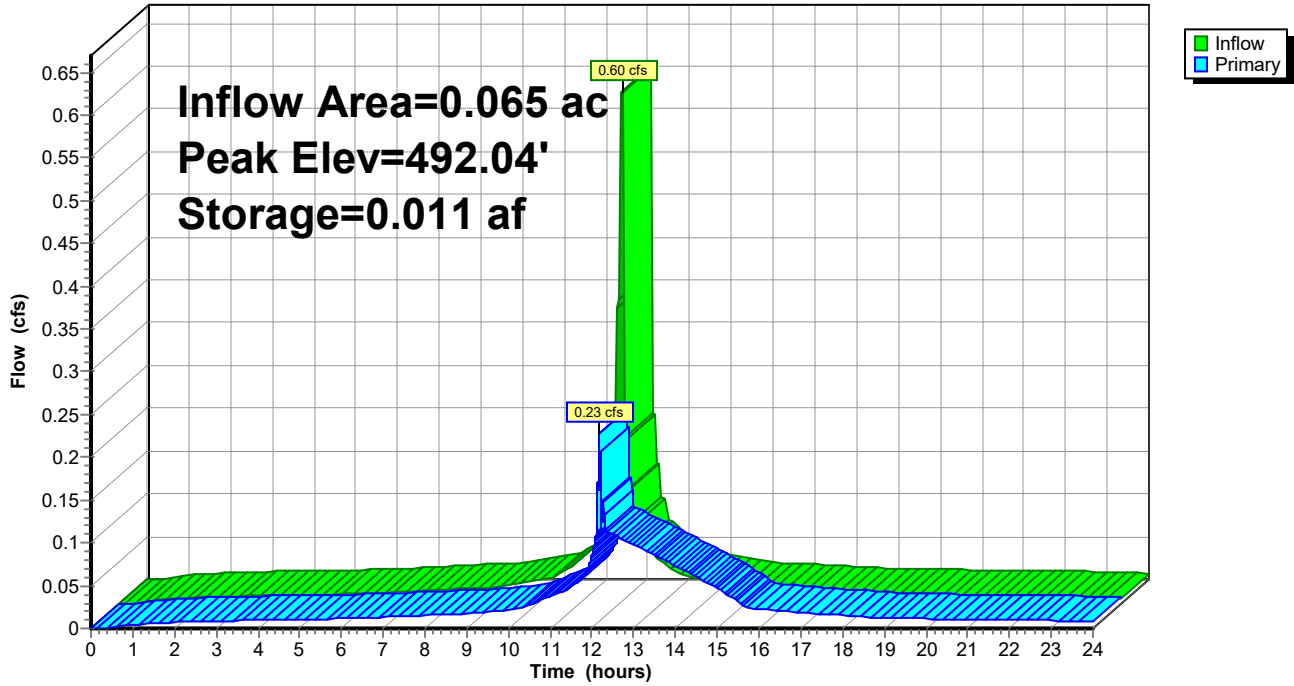
Page 45

Hydrograph for Subcatchment Post-Dev: Nethermont - Post Development

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00
0.50	0.07	0.00	0.00
1.00	0.13	0.03	0.00
1.50	0.20	0.07	0.01
2.00	0.28	0.13	0.01
2.50	0.35	0.19	0.01
3.00	0.43	0.26	0.01
3.50	0.51	0.33	0.01
4.00	0.59	0.40	0.01
4.50	0.68	0.48	0.01
5.00	0.77	0.57	0.01
5.50	0.86	0.65	0.01
6.00	0.95	0.74	0.01
6.50	1.05	0.84	0.01
7.00	1.16	0.95	0.01
7.50	1.28	1.06	0.02
8.00	1.41	1.19	0.02
8.50	1.55	1.33	0.02
9.00	1.69	1.47	0.02
9.50	1.87	1.64	0.02
10.00	2.07	1.84	0.03
10.50	2.31	2.08	0.03
11.00	2.62	2.39	0.05
11.50	3.09	2.86	0.08
12.00	4.42	4.19	0.43
12.50	6.14	5.90	0.08
13.00	6.61	6.37	0.05
13.50	6.92	6.69	0.03
14.00	7.16	6.92	0.03
14.50	7.36	7.12	0.02
15.00	7.54	7.30	0.02
15.50	7.68	7.44	0.02
16.00	7.82	7.58	0.02
16.50	7.95	7.71	0.02
17.00	8.07	7.83	0.01
17.50	8.18	7.94	0.01
18.00	8.28	8.04	0.01
18.50	8.37	8.13	0.01
19.00	8.46	8.22	0.01
19.50	8.55	8.31	0.01
20.00	8.64	8.39	0.01
20.50	8.72	8.48	0.01
21.00	8.80	8.56	0.01
21.50	8.88	8.64	0.01
22.00	8.95	8.71	0.01
22.50	9.03	8.78	0.01
23.00	9.10	8.86	0.01
23.50	9.16	8.92	0.01
24.00	9.23	8.99	0.01

Pond Pipe: 30" Pipe

Hydrograph

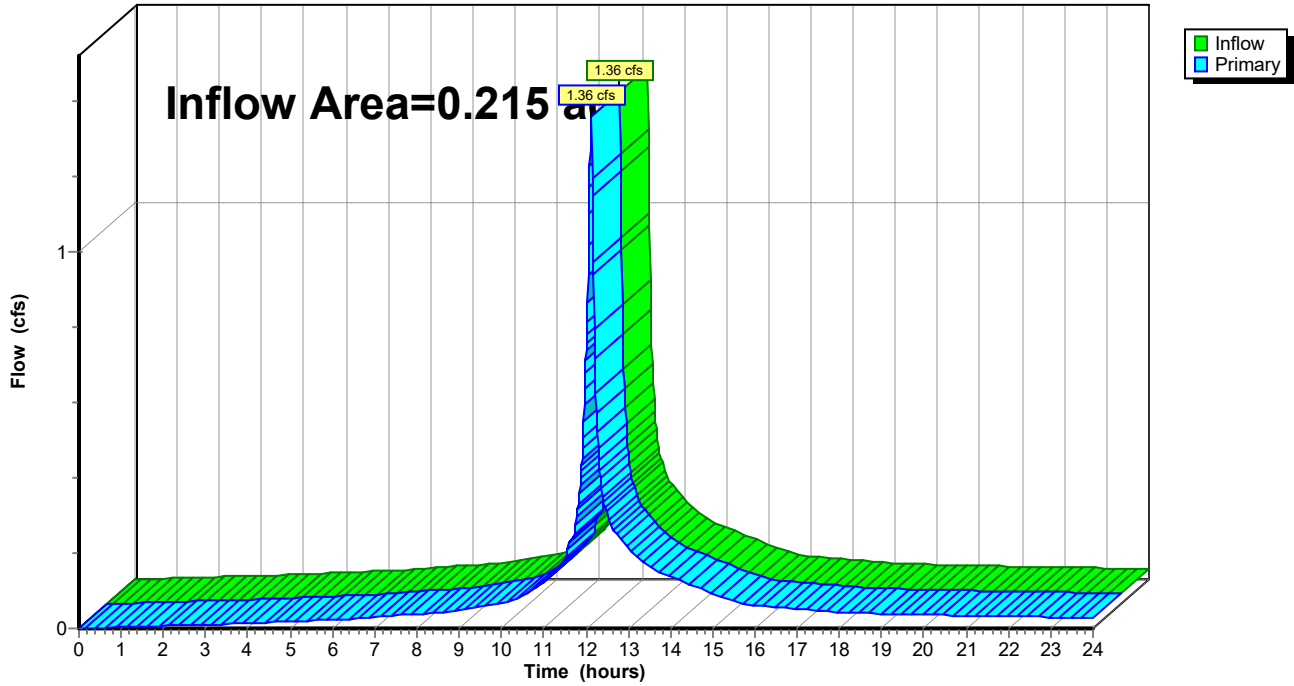


Hydrograph for Pond Pipe: 30" Pipe

Time (hours)	Inflow (cfs)	Storage (acre-feet)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.000	489.50	0.00
0.50	0.00	0.000	489.51	0.00
1.00	0.00	0.000	489.54	0.00
1.50	0.01	0.000	489.55	0.01
2.00	0.01	0.000	489.56	0.01
2.50	0.01	0.000	489.57	0.01
3.00	0.01	0.000	489.58	0.01
3.50	0.01	0.000	489.59	0.01
4.00	0.01	0.000	489.59	0.01
4.50	0.01	0.000	489.60	0.01
5.00	0.01	0.000	489.61	0.01
5.50	0.01	0.000	489.61	0.01
6.00	0.01	0.000	489.62	0.01
6.50	0.01	0.000	489.63	0.01
7.00	0.01	0.000	489.65	0.01
7.50	0.02	0.000	489.67	0.01
8.00	0.02	0.000	489.69	0.02
8.50	0.02	0.000	489.72	0.02
9.00	0.02	0.001	489.74	0.02
9.50	0.02	0.001	489.78	0.02
10.00	0.03	0.001	489.85	0.02
10.50	0.03	0.001	489.92	0.03
11.00	0.05	0.002	489.99	0.04
11.50	0.08	0.002	490.15	0.05
12.00	0.43	0.007	490.98	0.08
12.50	0.08	0.011	491.85	0.11
13.00	0.05	0.009	491.41	0.10
13.50	0.03	0.007	491.01	0.09
14.00	0.03	0.005	490.66	0.07
14.50	0.02	0.003	490.36	0.06
15.00	0.02	0.002	490.12	0.05
15.50	0.02	0.001	489.94	0.03
16.00	0.02	0.001	489.87	0.02
16.50	0.02	0.001	489.82	0.02
17.00	0.01	0.001	489.78	0.02
17.50	0.01	0.001	489.73	0.02
18.00	0.01	0.000	489.69	0.02
18.50	0.01	0.000	489.65	0.01
19.00	0.01	0.000	489.64	0.01
19.50	0.01	0.000	489.62	0.01
20.00	0.01	0.000	489.62	0.01
20.50	0.01	0.000	489.61	0.01
21.00	0.01	0.000	489.60	0.01
21.50	0.01	0.000	489.60	0.01
22.00	0.01	0.000	489.59	0.01
22.50	0.01	0.000	489.59	0.01
23.00	0.01	0.000	489.59	0.01
23.50	0.01	0.000	489.58	0.01
24.00	0.01	0.000	489.58	0.01

Link Post: Post

Hydrograph



Hydrograph for Link Post: Post

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	0.00	0.00
0.50	0.00	0.00	0.00
1.00	0.00	0.00	0.00
1.50	0.01	0.00	0.01
2.00	0.01	0.00	0.01
2.50	0.01	0.00	0.01
3.00	0.01	0.00	0.01
3.50	0.01	0.00	0.01
4.00	0.01	0.00	0.01
4.50	0.02	0.00	0.02
5.00	0.02	0.00	0.02
5.50	0.02	0.00	0.02
6.00	0.02	0.00	0.02
6.50	0.03	0.00	0.03
7.00	0.03	0.00	0.03
7.50	0.03	0.00	0.03
8.00	0.04	0.00	0.04
8.50	0.04	0.00	0.04
9.00	0.05	0.00	0.05
9.50	0.06	0.00	0.06
10.00	0.07	0.00	0.07
10.50	0.08	0.00	0.08
11.00	0.12	0.00	0.12
11.50	0.18	0.00	0.18
12.00	0.74	0.00	0.74
12.50	0.31	0.00	0.31
13.00	0.21	0.00	0.21
13.50	0.17	0.00	0.17
14.00	0.14	0.00	0.14
14.50	0.12	0.00	0.12
15.00	0.09	0.00	0.09
15.50	0.07	0.00	0.07
16.00	0.06	0.00	0.06
16.50	0.06	0.00	0.06
17.00	0.05	0.00	0.05
17.50	0.05	0.00	0.05
18.00	0.04	0.00	0.04
18.50	0.04	0.00	0.04
19.00	0.04	0.00	0.04
19.50	0.04	0.00	0.04
20.00	0.04	0.00	0.04
20.50	0.03	0.00	0.03
21.00	0.03	0.00	0.03
21.50	0.03	0.00	0.03
22.00	0.03	0.00	0.03
22.50	0.03	0.00	0.03
23.00	0.03	0.00	0.03
23.50	0.03	0.00	0.03
24.00	0.03	0.00	0.03