NATHANIEL J. HOLT, PE

dan@holtengineering.net

October 5, 2021

Town of North Castle Planning Board 17 Bedford Road Armonk, NY 10504

Attn: Christopher Carthy, Chairman

RE: Hugh Harris

9 Sterling Road North

Application for Site Plan and Wetland Permit Approval

Dear Chairman Carthy and Members of the Planning Board:

We last appeared before your Board on August 3, 2020 to continue our discussion to obtain Site Plan Approval and a Wetland Permit for the above referenced application after which we were referred to the Conservation Board for recommendation and comment. Subsequently, we made the necessary application and due in part to the impact of COVID on meeting dates as well as several appearances during which time we presented revised plans to obtain a positive recommendation from the Board. As indicated in the Conservation Board's correspondence to you, in a 4-2 vote the Board denied a positive recommendation for a wetland permit.

As noted in their correspondence we appeared before the Conservation Board and presented revised plans to address its concerns on five separate occasions. Each revision was directed at addressing specific comments or concerns of the Board. Each change resulted in decreasing the size of the pool and pool patio which subsequently reduced the intrusion into the already (previously) disturbed wetland buffer. Each submission always contained an extensive wetland planting/mitigation plan designed to both protect the wetland/wetland buffer but also to improve its overall health.

In the Conservation Board's correspondence to you they listed its position as follows:

- It was stated that the existing septic system is being relocated to facilitate the construction of the proposed swimming pool, while avoiding the need of a sideyard setback variance.

This is comment is inaccurate. The proposed swimming pool could have easily been in the area in which the proposed septic system will be built. That is: no side yard variance would be necessary or required. In fact, from the outset it was planned to locate the pool in the area that is now where the septic system will be. The reason is twofold:

1. Initially it was intended to construct the pool in the area in which the septic system ultimately received approval from the Health Department. However, when it was discovered that the existing septic system was in failure did the change occur.;

- 2. The soils in the area of the approved septic system were investigated and the testing observed by the Health Department. In fact, this is the only area which suitable soils were found. (Clearly, the new system could not be in an area where the septic system was already failing, in the wetlands themselves or within limiting distances to domestic water supply or impervious areas.) Logically locating the pool in the same area in which the existing septic system will be abandoned makes the most sense.
- It was stated that the Westchester County Department of Health 'has the inability to approve such projects" (septics in the wetland buffer).

Another inaccurate statement, but in fairness could be attributed to misinformation given to the Board. First of all, the rule that the Board was referring to is directed towards new applications. Secondly, the permit issued to Mr. Harris does not a meet the criteria of a "new permit" – the house and property exists therefore it is not a "new permit"; finally, the Health Department has issued a Remediation Permit to Mr. Harris. Essentially a remediation permit works within the regulations to create a functioning system while acknowledging that circumstances may require that some relaxation of the "Rules and Regulations" are allowed/necessary. The Board voted before a copy of the permit could be provided as proof.

The Conservation Board noted that the majority felt that the "proposed pool is a non-essential amenity" which would be located entirely within the wetland buffer. What the Board did not report is that they contacted a former Chairman of the Conservation Board, John Fava asking if locating pools entirely within the buffer would set a precedent. Mr. Fava advised the Board that it would not be a precedent.

Subsequently Mr Harris retained the services of Mary Jaehnig to prepare a Wetland Functional Analysis – a copy of that analysis is attached herein. The conclusions drawn by Ms. Jaehnig are clearly explained. Each category is given a "score" based upon established criteria when preparing such an analysis. Suffice it to say the section of the wetland on the Harris site is not of high quality and provides little benefit to water quality; but could be improved by some of the mitigative measures outlined within the report.

In consideration of the above discussions above and particularly Mary Jaehnig's Functional Wetland Analysis, Mr. Harris has directed me to return to your so that we can schedule a Public Hearing on the Wetland Permit, addressing the Gross Land Coverage issues and Site Plan Approval.

Very truly yours,

Nathaniel J. Holt, PE Holt Engineering & Consulting, PA

PFIZER – JÄHNIG ENVIRONMENTAL CONSULTING

September 28, 2021 Wetland Functional Assessment 9 Sterling Road North Armonk, New York

Setting:

The northwestern portion of the property located at 9 Sterling Road North is a locally regulated wetland as shown by the flagging of Evans Associates on September 18, 2019. The wetland is located on a hillside and is a headwater to a tributary to the Byram River. An intermittent watercourse is contained within the wetland and originates just northwest of the existing dwelling.

The watercourse and wetland is located on the lower flank of a slope that starts near Route 22, approximately 2000 feet to the east and ends 1000 feet to the west as the flow enters the Byram River tributary. The hillside wetland is fed by both subsoil seepage and stormwater runoff from Sterling Road North.

Wetland Description:

The wetland is scrub/shrub (open with a shrub and diverse groundcover) and becomes forested in the southwestern corner and along the northern property line. Minor rills are located on the hillside. The forested wetland supports red maple, ash spp., birch spp., with spicebush, arrowwood vibernum and winterberry in the shrub story. The scrub/shrub portion supports silky dogwood, highbush blueberry, shrub willow, sensitive fern, lurid sedge, foxtail sedge, asters, jewelweed, brambles, blue vervain, and rush spp., and dead trees. Invasive species such as phragmites, multiflora rose, Japanese barberry, wild grape, bitter dock, and purple loosestrife have taken hold on the edges and within the wetland.

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The wetland soil is relatively thin sandy loam and developed in glacial till over bedrock. The moderate slopes result in active changes to surface flow and rill development.

Wetland Buffer Description:

The wetland buffer has been disturbed during earlier site development. Soils have been regraded with areas of compacted fill. The vegetation present is a mix of early colonizer and mostly invasive species as groundcover. The invasive vegetation noted on the disturbed soils include bitter dock, purple loosestrife, goldenrod spp., creeping thistle, wild grape, multiflora rose, and phragmites. The buffer area is open and vulnerable to the spread of the invasive species.

Wetland Functions and Values:

The functional assessment uses 'A Rapid Procedure for Assessing Wetland Functional Capacity' by Dennis W. Magee and Garrett G. Hollands', 1998, based on Hydrogeomorphic (HGM) Classification.

The class for this wetland is a small slope wetland connected downstream to other systems. Features were noted and inventoried in the wetland to determine the value of each function.

1) Modification of Groundwater Discharge.

High Value, due to observed outlet, intersection of water table with topography despite component of stormwater road runoff.

2) Modification of Groundwater Recharge.

Low to no value, lacks capacity for long term storage of water necessary for significant recharge, fast transit time, no underlying glacial stratified drift deposits.

3)Storm and Flood Storage.

Low, Vegetation provides roughness which slows down runoff but water passes relatively quickly through the slope to downstream receiving waters.

4) Modification of Streamflow.

Moderate, the wetland is a source of groundwater discharge as well as surface runoff to downstream systems and helps provide stable base flow during dry times.

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5) Modification of Water Quality.

Low, residence time is low, long term storage is low, modification to water by physical and chemical treatment of solids is therefore low.

6)Export of Detritus.

Moderate, the wetland flushes detritus due to short residence time. This function is modified lower due to small size and moderate vegetation density.

7)Contribution to Abundance and Diversity of Wetland Vegetation. Low, due to unpredictable hydrology, small size, introduction of invasives.

8)Contribution to Abundance and Diversity of Wetland Fauna. Low, lack of open water, disturbed buffer plant community, lack of predictable hydrology.

Conclusions:

The highest values of the wetland involve discharge of groundwater to the surface and regulation of the base line flow of downstream watercourses. Export of detritus is also high and the detritus produced and carried downstream provides nutrients to benthic communities off site.

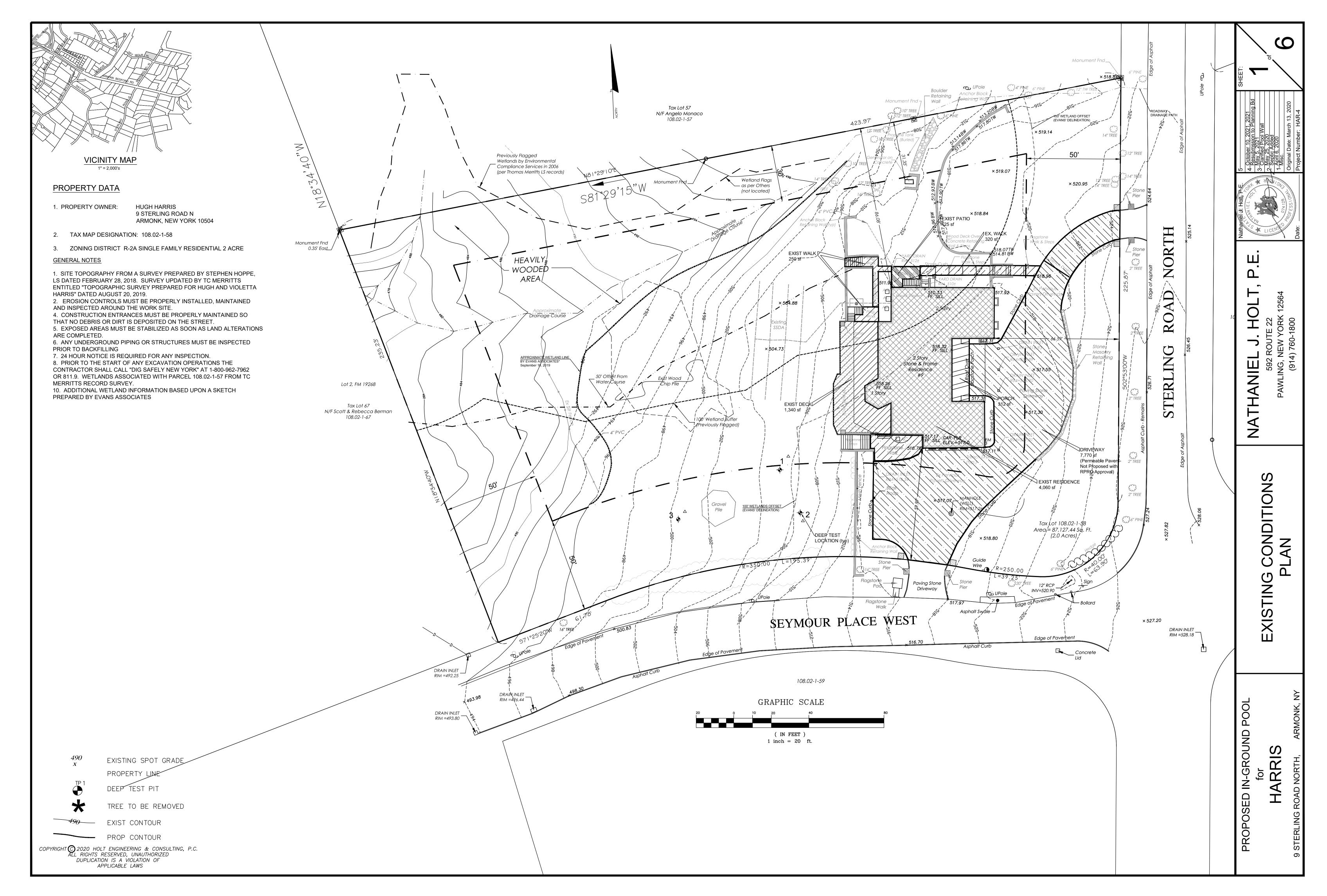
The degradation of the buffer and resulting invasive species with lack of shrub and tree layers is hurting the values for wetland flora and fauna. The compacted buffer fill also adds additional runoff to the wetland. Untreated road runoff enters the wetland during storm events.

A comprehensive planting plan to introduce native species in tree, shrub and ground layers would enhance the wildlife potential of both buffer and wetland, slow velocity of surface runoff to lessen erosion in the wetland and buffer. A restoration planting plan should include removal of some invasives, particularly the phragmites, in the buffer and wetland.

Submitted by,

Mary Lacknig

soil scientist



oata\HEC- Projects_Cad\HARRIS-ARMONK\HARRIS.Pool.2021.1005.dwg, 10/11/2021 1:

GENERAL NOTES

- 1. SITE TOPOGRAPHY FROM A SURVEY PREPARED BY STEPHEN HOPPE, LS DATED FEBRUARY 28, 2018. SURVEY UPDATED BY TC MERRITTS ENTITLED "TOPOGRAPHIC SURVEY PREPARED FOR HIGH AND VIOLETTA HARRIS" DATED AUGUST 20, 2019.
- 2. EROSION CONTROLS MUST BE PROPERLY INSTALLED, MAINTAINED AND INSPECTED AROUND THE WORK SITE
- 4. CONSTRUCTION ENTRANCES MUST BE PROPERLY MAINTAINED SO
- THAT NO DEBRIS OR DIRT IS DEPOSITED ON THE STREET. 5. EXPOSED AREAS MUST BE STABILIZED AS SOON AS LAND ALTERATIONS ARE COMPLETED.
- 6. ANY UNDERGROUND PIPING OR STRUCTURES MUST BE INSPECTED PRIOR TO BACKFILLING
- 7. 24 HOUR NOTICE IS REQUIRED FOR ANY INSPECTION.
- 8. PRIOR TO THE START OF ANY EXCAVATION OPERATIONS THE CONTRACTOR SHALL CALL "DIG SAFELY NEW YORK" AT 1-800-962-7962 OR 811.9. WETLANDS ASSOCIATED WITH PARCEL 108.02-1-57 FROM TC MERRITTS RECORD SURVEY.
- 10. ADDITIONAL WETLAND INFORMATION BASED UPON A SITE WALK AND SKETCH PREPARED BY EVANS ASSOCIATES

GROSS LAND COVERAGE CALCULATIONS WORKSHEET

| APPLICATION NAME: HUGH HARRIS TAX MAP DESIGNATION: 108.02-1-58 | | | | |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------|-----------|-----------|
| GROSS LOT COVERAGE | ORIGINAL ¹ | RPRC APPROVAL ² | CURRENT 3 | PROPOSED |
| 1. TOTAL LOT AREA | 87,120 sf | 87,120 sf | 87,120 sf | 87,120 sf |
| 2. MAXIMUM PERMITTED GROSS LAND COVERAGE | 13,270 sf | 13,270 sf | 13,270 sf | NA |
| BONUS MAXIMUM GROSS LAND COVER Distance principal home is beyond minimum front yard setback 16.5 ft x 10 = | 165 sf | 165 sf | 165 sf | 165 sf |
| 4. TOTAL MAXIMUM PERMITTED GROSS LAND COVERAGE | 13,435 sf | 13,435 sf | 13,435 sf | 13,435 sf |
| 5. AMOUNT OF LOT AREA COVERED BY PRINCIPAL BUILDING 4,060 sf (EXISTING) + 0 sf (PROPOSED) | 4,060 sf | 4,060 sf | 4,060 sf | 4,060 sf |
| 6. AMOUNT OF LOT AREA COVERED BY ACCESSORY BLDGS 0 sf (ORIGINAL) + 0 sf | 0 sf | 0 sf | 0 sf | 0 sf |
| 7. AMOUNT OF LOT AREA COVERED BY DECKS 728 sf (ORIGINAL) | 728 sf | 1,041 sf | 1,340 sf | 1,830 sf |
| 8. AMOUNT OF LOT AREA COVERED BY PORCHES 171 sf (ORIGINAL) | 171 sf | 312 sf | 312 sf | 312 sf |
| AMOUNT OF LOT AREA COVERED BY DRIVEWAY, PARKING AREAS AND WALKWAYS 266 sf (ORIGINAL) | 5,266 sf | 7,113 sf | 8,590 sf | 8,590 sf |
| 10. AMOUNT OF LOT AREA COVERED BY TERRACES/PATIOS 0 sf (ORIGINAL) | 0 sf | 278 sf | 130 sf | 420 sf |
| 11. AMOUNT OF LOT AREA COVERED BY TENNIS COURT, POOL: & MECHANICAL EQUIP 0 sf (ORIGINAL) | 0 sf | 0 sf | 0 sf | 672 sf |
| 12. AMOUNT OF LOT AREA COVERED BY ALL OTHER STRUC. 0 sf (ORIGINAL) | 0 sf | 0 sf | 0 sf | 0 sf |
| 13. PROPOSED GROSS LAND COVERAGE:Total of Lines 5-12: | 10,225 sf | 12,804 sf | 14,432 sf | 15,584 sf |

AREAS FROM GROSS LAND COVERAGE CALCULATIONS WORKSHEET, DATED MAY 10, 2018 PROPOSED AREAS SHOWN ON GROSS LAND COVERAGE CALCULATIONS WORKSHEET, DATED MAY 10, 2018 ³AREAS FROM "AS-BUILT" SURVEY PREPARED BY TC MERRITTS DATED OCTOBER 3, 2019

LEGEND

= EXIST CONTOUR

EXISTING SPOT GRADE

TREE TO BE REMOVED

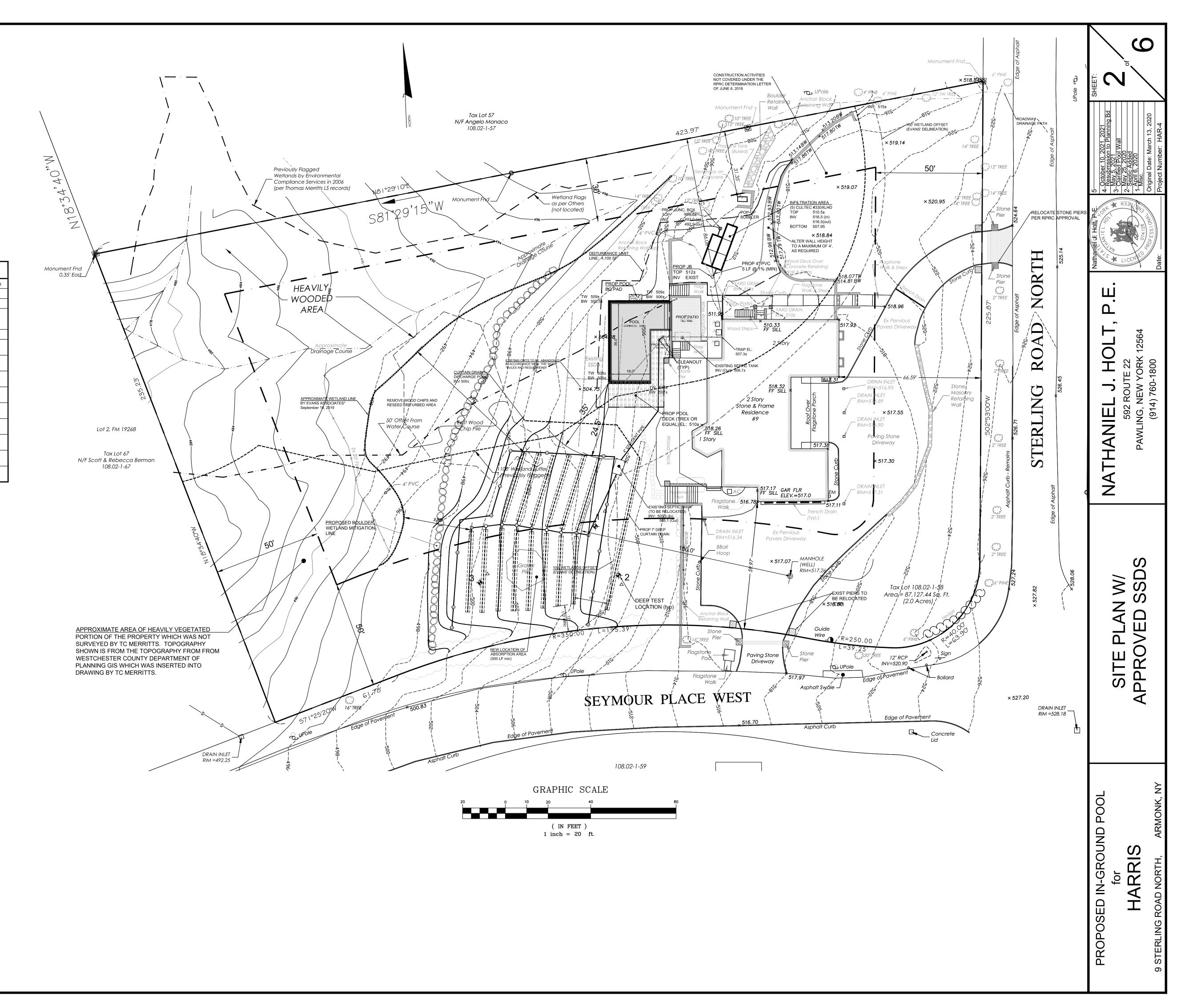
- PROPERTY LINE

DEEP TEST PIT

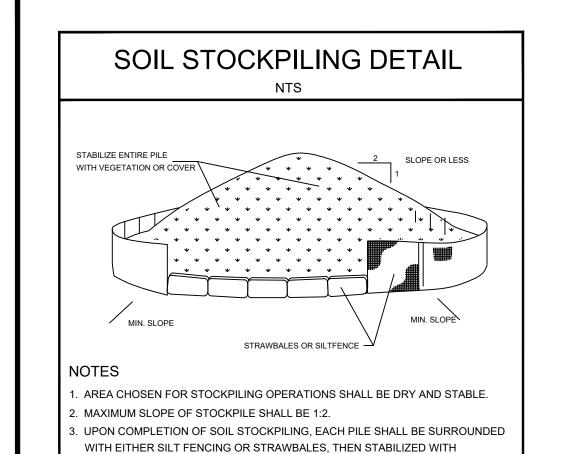
PROP CONTOUR

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DUPLICATION IS A VIOLATION OF

APPLICABLE LAWS



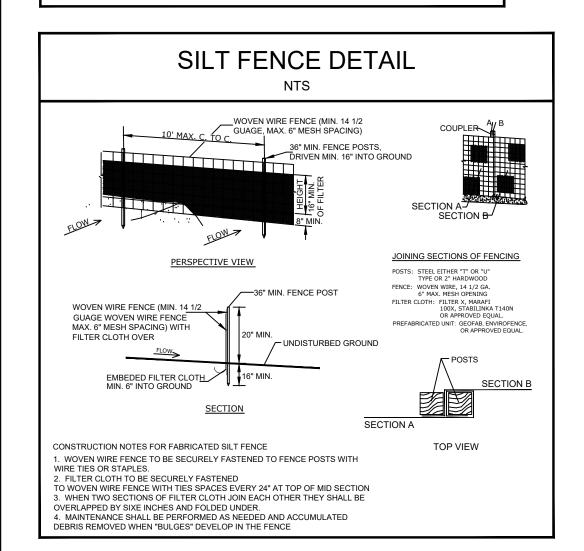
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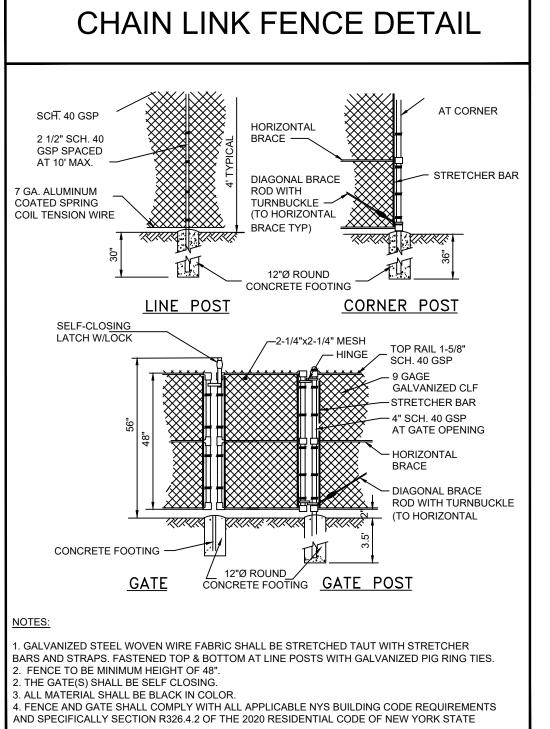


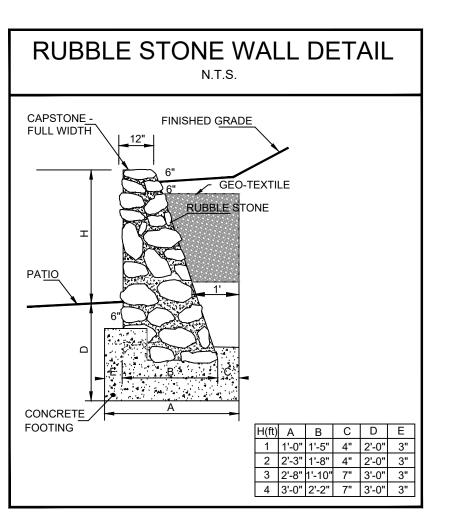
I. SOIL STOCKPILES SHALL BE LOCATED A MINIMUM OF 100' FROM WETLANDS AND

VEGETATION OR COVERED.

WATERCOURSES.





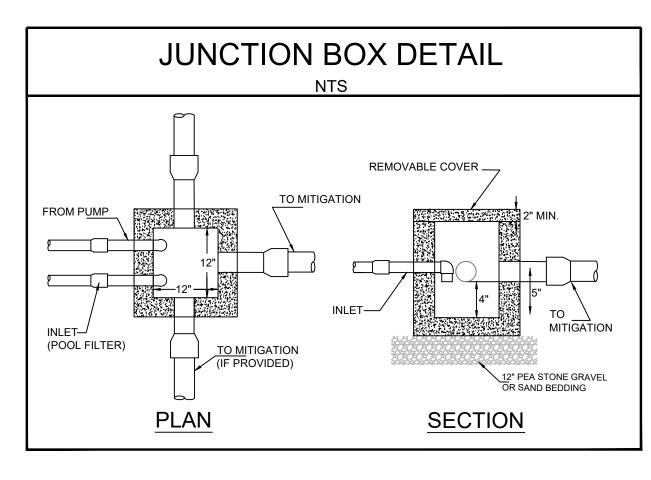


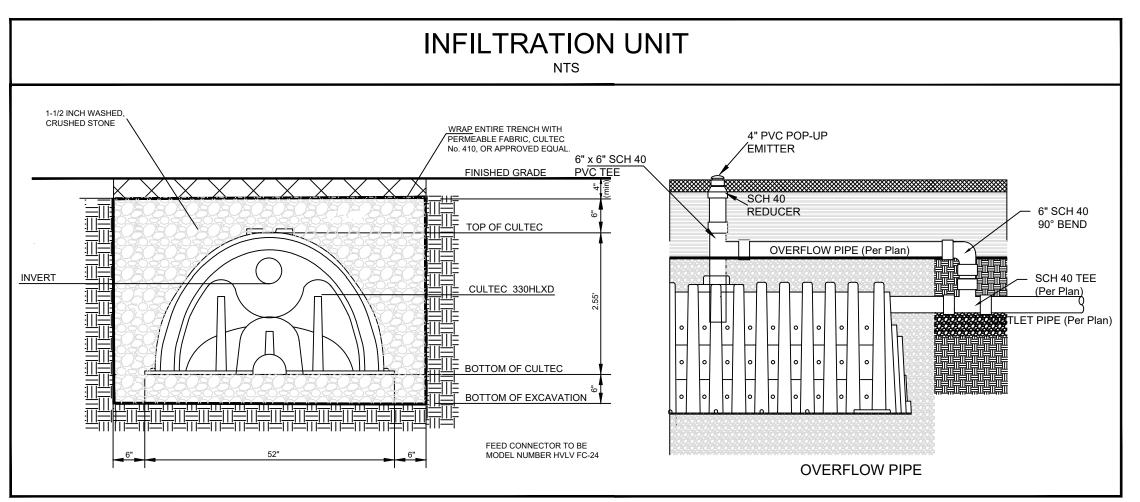
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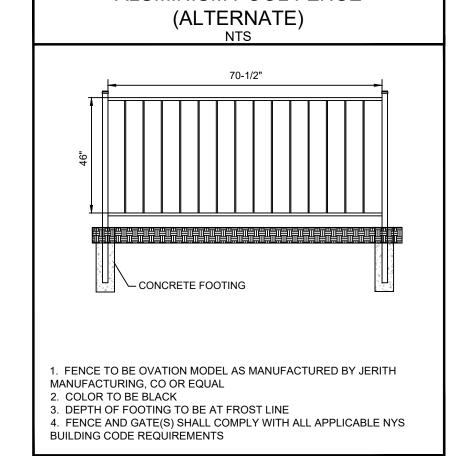
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Monument Fr

PROPOSED MITIGATION AREA

PROPOSED BOULDER

WETLAND MITIGATION

LIMIT LINE

HIPS AND

D AREA

REMOVAL OF INVASIVE SPECIES)

STORMWATER ANALYSIS ALUMINIUM POOL FENCE **EXISTING CONDITIONS** PROPERTY AREA: 87,120 SF SOIL TYPE: WdB -WOODBRIDGE PERVIOUS AREAS (HSG = C/D) LAWN-POOR (RCN 73) 4,585 sf = 0.11 acPROPOSED CONDITIONS DECK (TREX) (60% IMP) POOL (NOT INCLUDED IN RUNOFF) LAWN (RCN 75) TOTAL RUNOFF CURVE NUMBER

RUNOFF VOLUME CAPTURE 25 YR STORM EVENT (6") OVER INCREASE IN IMPERVIOUS AREA THE INCREASE IN RUNOFF VOLUME DUE TO THE INCREASE IN IMPERVIOUS AREA IS:

GRAPHIC SCALE

(IN FEET) 1 inch = 10 ft.

500 sf = 0.011 ac (0.007 ac Net) 765 sf = 0.018 ac3,520 sf = 0.081 ac4,785 sf = 0.110 ac

Wetland Flags

as per Others

(not located)

DISTURBANCE LIMIT

PROP POOL

POOL

EQ PAD

TW 508: _BW__505:

0.007 ac x 98 = 0.6860.081 ac x 75 = 6.075LAWN 6.761 = 76.8, **SAY 77**

382.5 cf / 11.32 cf/lf = 33.8 lf = 5 Units;

THEREFORE:

VOLUME PROVIDED: 440 cf

PAVEMENT DRIVEWAY)

PROPOSED MITIGATION

 $(3.67" - 3.3") / 12 \times 4,585 \text{ sf} = 141 \text{ cf}$

POOL VOLUME: 765 sf x 0.5ft = 382.5 cf

POOL DRAWDOWN VOLUME CONTROLS

ONE CULTEC UNIT (MODEL 330XLHD)

HAS THE CAPACITY OF 11.32 cf/ft.

WINTERIZATION DRAWDOWN

**NO ALLOWANCE TAKEN FOR PERCOLATION, UPON TESTING, THE DESIGN WILL BE MODIFIED AS MAY BE NECESSARY NO PROPOSED MITIGATION FOR POOL DECK AND PATIO - OFFSET BY INSTALLATION OF PERMEABLE

APPROVED BY THE TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION DATED:

CHRISTOPHER CARTHY, CHAIRMAN TOWN OF NORTH CASTLE PLANNING BOARD

INFILTRATION AREA (5) CULTEC #330XLHD

510.5±

507.95

-ALTER WALL HEIGHT

TO A MAXIMUM OF 4',

AS REQUIRED

Wood Deck Over

FF SILL

FF SILL ELEV. = 517.0

2 Story

Stone & Frame

Residence

YARD DRA

Wood Steps-

TOP 512±

INV EXIST

PROP PATIO

PROP POOL

/ DECK (TREX OR EQUAL) EL: 510± ×

Concrete Retaining

Walk &

517.31

Roof (gston

517.38

NATH,

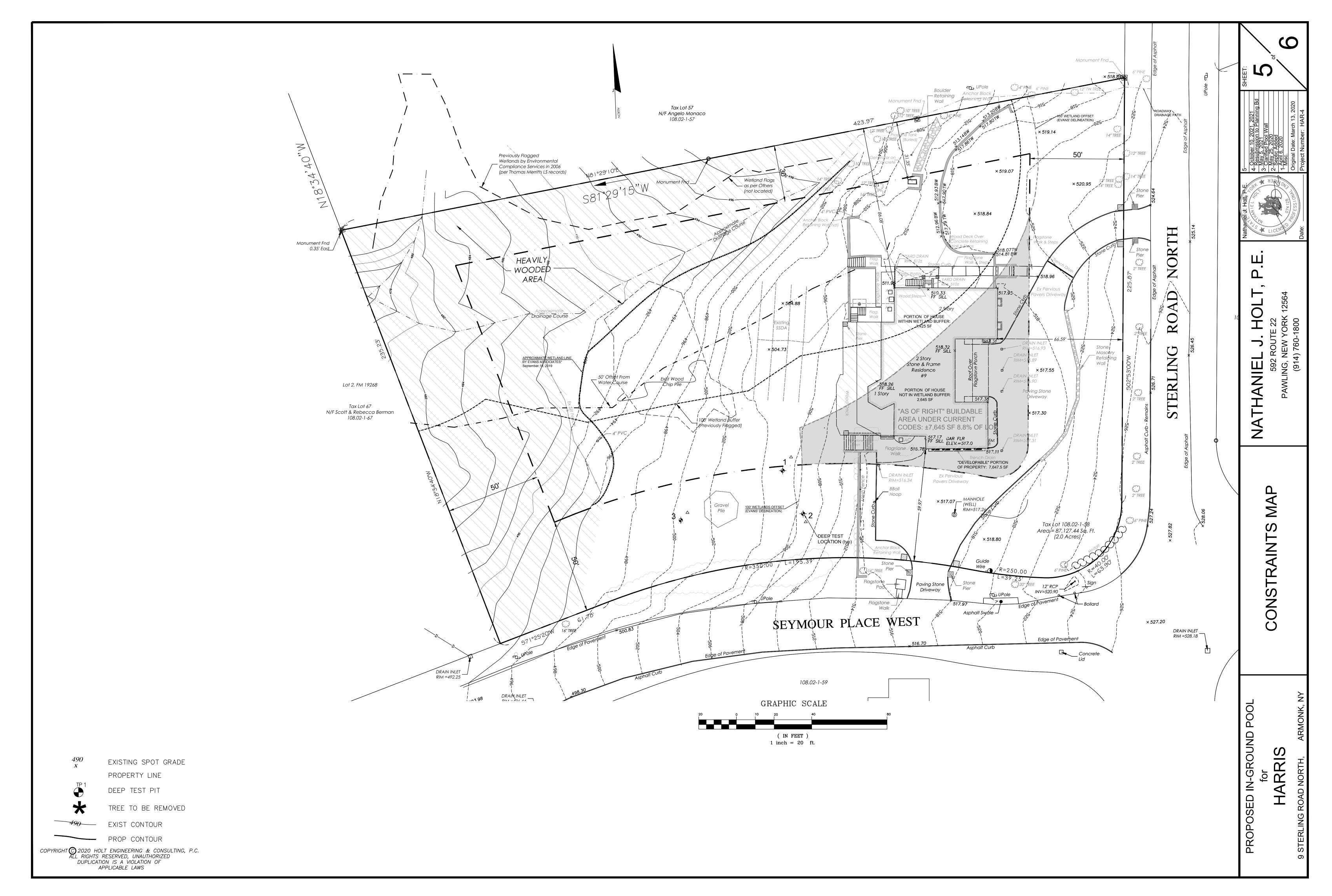
516.5 (in)

516.5(out)

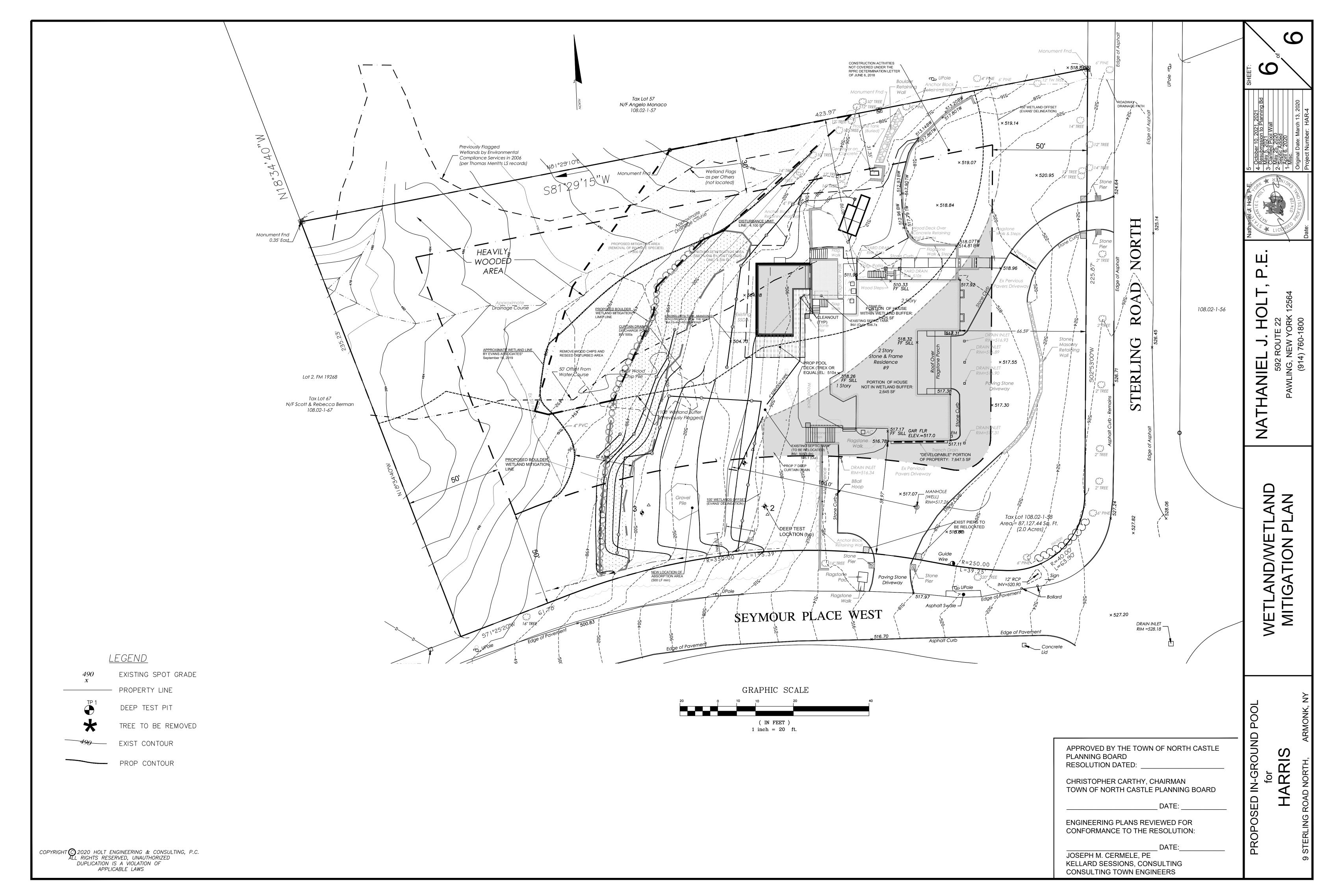
V

ENGINEERING PLANS REVIEWED FOR CONFORMANCE TO THE RESOLUTION:

JOSEPH M. CERMELE, PE KELLARD SESSIONS, CONSULTING CONSULTING TOWN ENGINEERS



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-009--EXISTING~ AMBOO HEDGE __------SEPTIC FIELDS (37) Aronia arbutifolia 'Brilliantissima' -5' WIDE GATE-—DISTANCE BETWEEN 100' WETLAND OFFSET (EVANS' DELINEATION) <u>}⊟</u>};=11195 _919--516.70 RESIDENCE × 517.07 517.97 × 518.84 × 519.14 100' WETLAND OFFSET-(EVANS' DELINEATION) × 520.95 < 518.84 502°53'00"W 225.87 Asphalt Curb - Remains × 527.20 × 527.82 TO SCALE WHEN PLOTTED ON 24x36 PROGRESS SET NOT FOR CONSTRUCTION

■ PLANTING SCHEDULE

QTY BOTANICAL NAME COMMON NAME SIZE COMMENTS

37 | Aronia arbutifolia 'Brilliantissima' | Red Chokeberry 3 Gallon 24 llex glabra Virginia Sweetspire | 3 Gallon 34 | Itea virginica 'Little Henry' 30 Myrica pennsylvanica Northern Bayberry

160 | Carex pennsylvanica Pennsylvania Sedge | 2 Gallon | 18" o.c.

☐ PROPOSED PLANTING IMAGES





Aronia arbutifolia 'Brilliantissima'





□ PLANTING NOTES

AMERICAN ASSOCIATION OF NURSERYMEN, INC.

1. PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED; INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND CLEAN-UP.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND

ALIGNMENT. LAYOUT TO BE APPROVED BY LA PRIOR TO INSTALLATION.

3. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE FROM DEFECTS AND INJURIES.

4. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL.

5. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISIONS SHALL BE MADE FOR A GROWTH GUARANTEE OF AT LEAST ONE YEAR FROM THE DATE OF ACCEPTANCE FOR TREES AND SHRUBS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE.

6. INSOFAR AS IT IS PRACTICABLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT, IRRIGATE & CARE FOR

7. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI 260 (REV. 1980) "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE

8. ALL PLANTS SHALL BE PLANTED IN AMENDED TOP SOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACK FILLING PROGRESSES, PLANTING MIX TO BE AS SHOWN ON PLANTING DETAILS. LARGE PLANTING AREAS TO INCORPORATE FERTILIZER AND SOIL CONDITIONERS AS STATED IN PLANTING SPECIFICATIONS.

9. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE BALL ONLY.

10. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.

11. NO PLANT, EXCEPT GROUND COVERS, SHALL BE PLANTED LESS THAN TWO FEET FROM EXISTING STRUCTURES AND SIDEWALKS.

12. SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT A NORMAL OR NATURAL RELATIONSHIP TO THE CROWN OF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE PLANT IN THE CENTER OF THE PIT.

13. ALL INJURED ROOTS SHALL BE PRUNED UTILIZING CLEAN, SHARP TOOLS TO MAKE CLEAN ENDS

14. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE NATURAL CHARACTER OF PLANT. PRUNING SHALL BE DONE WITH CLEAN,

16. ALL PLANTING BEDS SHALL BE MULCHED WITH 2" LAYER OF DOUBLE SHREDDED HARDWOOD

17. ALL DISTURBED AREAS AND NEW PLANTING BEDS TO BE TREATED WITH 4" TOP SOIL & SEEDED IN ACCORDANCE WITH PERMANENT STABILIZATION METHODS.

18. NO HERBICIDES SHALL BE USED WITHIN THE WETLAND BUFFER.

19. ALL PLANTS PLANTED WITHIN WETLAND BUFFER ARE TO BE INSTALLED BY HAND.

1. FOR B & B PLANT MATERIAL, REMOVE ALL TWINE AND ROLL BACK BURLAP FROM

2. FOR CONTAINER GROWN PLANT MATERIAL, REMOVE CONTAINER. TO HELP PREVEN

3. SATURATE SOIL WITHIN SIX (6) HOURS OF PLANTING, AND WATER AS NECESSARY UNTIL IRRIGATION INSTALLED.

NOTES:

SHRUB, AS SPECIFIED TOP 1/2 OF BALL. IF ANY MATERIALS USED TO BIND THE ROOTBALL ARE NON-BIODEGRADEABLE, REMOVE COMPLETELY INCLUDING WIRE BASKET. — 2" DEEP ORGANIC MULCH RING SET PLANT PLUMB IN LOOSENING OF SOIL AND SCARIFY BALL TO HELP PREVENT GIRDLING

4. NO MULCH OR SOIL SHOULD BE PLACED AGAINST THE PLANT'S TRUNK.

POSITION ROOT CROWN AT FINISHED GRADE 2" MULCH REMOVE CONTAINER AND GENTLY LOOSEN ROOTS ROTOTILL 2" TOPSOIL AND 2" OF COMPOST INTO NATIVE SOIL UNLESS LANDSCAPE ARCHITECT SPECIFIES OTHERWISE

EXCAVATED HOLE

BACKFILL WITH TOPSOIL

2 GROUNDCOVER PLANTING

SHRUB PLANTING SCALE: 1/2"=1"

L-701 SCALE:1/2"=1'

178 elizabeth st pearl river, ny 10965 p 845.365.4595 | f 914.361.4473 yostdesign.com SURVEYOR:

Q O

DATE: JULY 14, 2021 DRAWN BY: AVM JOB NO: 040518 SCALE: 1" =20' FILENAME: 2021_0721 Harris

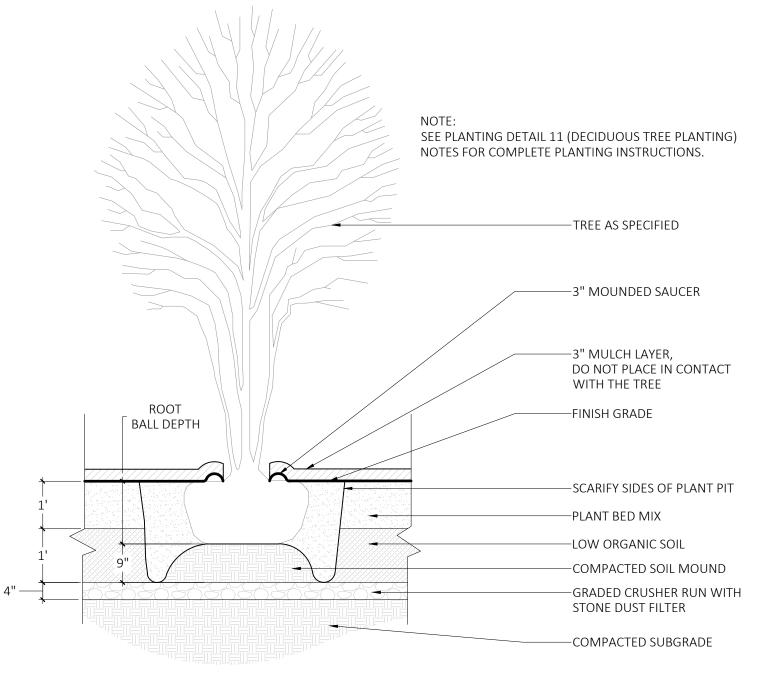
REVISIONS: 12/20/2021 4/12/2021 7/22/2021



Blythe M Yost ASLA | Registered Landscape Architect NYS # 002369

PLANTING PLAN

SHEET NO.



26' x 17' (TYP)

-UNDISTURBED SOIL.

RAIN GARDEN OVERFLOW ELEVATION =24.80 REFER TO PLANS BY ERIC RAINS ARCHITECT FOR RAIN GARDEN PLANTING INFORMATION

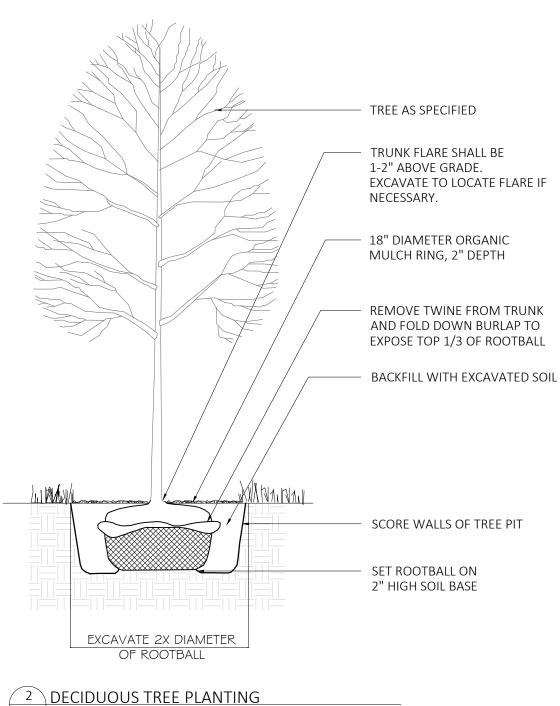
MULCH TOPPING.

1 MULTISTEM TREE PLANTING SCALE: 1/2"=1'

ELEV. = 25.80 (TYP) —

MOISTURE TOLERANT — PLANT MATERIAL AT BOTTOM

5 RAIN GARDEN SCALE: 1"=1'



NOTES: 1. SET TREE PLUMB.

3. REMOVE COMPLETELY ANY NON-BIODEGRADABLE MATERIALS BINDING THE

2. DO NOT STAKE UNLESS DIRECTED TO DO SO BY LANDSCAPE ARCHITECT

4. REMOVE WIRE BASKET COMPLETELY IF ROOTBALL WILL BARE. OTHERWISE, CLIP AND PEEL BACK WIRE BASKET AT LEAST ONE THIRD OF THE WAY FROM THE TOP OF THE ROOTBALL.

5. SATURATE SOIL WITHIN SIX (6) HOURS OF PLANTING AND WATER AS NECESSARY UNTIL IRRIGATION IS INSTALLED.

IS NOT EXPOSED, REMOVE SOIL AND EXPOSE.

6. DO NOT ADD ANY SOIL AMENDMENTS OTHER THAN COMPOST UNLESS DIRECTED TO BY LANDSCAPE ARCHITECT.

7. DO NOT ADD ANY SOIL OR MULCH AGAINST TRUNK OF TREE. IF ROOT FLARE

SHRUB, AS SPECIFIED 2" DEEP ORGANIC MULCH RING SET PLANT PLUMB IN **EXCAVATED HOLE**

BACKFILL WITH TOPSOIL

3 SHRUB PLANTING SCALE: 1/2"=1'

NOTES:

REMOVE CONTAINER

1. FOR B & B PLANT MATERIAL, REMOVE ALL TWINE AND ROLL BACK BURLAP FROM TOP 1/2 OF BALL. IF ANY MATERIALS USED TO BIND THE ROOTBALL ARE NON-BIODEGRADEABLE, REMOVE COMPLETELY INCLUDING WIRE BASKET.

2. FOR CONTAINER GROWN PLANT MATERIAL, REMOVE CONTAINER. TO HELP PREVEN LOOSENING OF SOIL AND SCARIFY BALL TO HELP PREVENT GIRDLING

3. SATURATE SOIL WITHIN SIX (6) HOURS OF PLANTING, AND WATER AS NECESSARY UNTIL IRRIGATION INSTALLED.

4. NO MULCH OR SOIL SHOULD BE PLACED AGAINST THE PLANT'S TRUNK.

POSITION ROOT CROWN AT FINISHED GRADE 2" MULCH

AND GENTLY LOOSEN ROOTS ROTOTILL 2" TOPSOIL AND 2" OF COMPOST INTO NATIVE SOIL UNLESS LANDSCAPE ARCHITECT SPECIFIES OTHERWISE

4 GROUNDCOVER PLANTING SCALE:1/2"=1'

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SURVEYOR:

DATE: NOVEMBER 4, 2020 DRAWN BY: AVM JOB NO: 040518 SCALE: VARIES FILENAME: 2021_0721 Harris

REVISIONS: 04/12/2021



Blythe M Yost ASLA | Registered Landscape Architect

DETAILS SHEET

SHEET NO.

2 DECIDUOUS TREE PLANTING SCALE: 1/4"=1'

-3:1 SLOPE MINIMUM

- 3" CRUSHED STONE

4" OF AMENDED SOIL - 50% SAND 20-30% TOPSOIL W/ LESS THAN 5% CLAY, 20-30% LEAF COMPOST

FINISHED GRADE

MOTTLES ELEV.=23.55



