TOWN OF VERNON

Inland Wetlands Commission (IWC)

Meeting Notice & Agenda

Tuesday June 22, 2021, 7:00 PM

Location: Council Chambers – 3rd floor

Vernon Town Hall, Memorial Building 14 Park Place, Vernon, CT

NOTE: This meeting will be in-person only; there is no ZOOM or Hybrid option

AGENDA

- 1. Call to Order & Roll Call
- 2. Administrative Actions
 - 2.1 Amendment/Adoption of Agenda Additional business to be considered under agenda item #8 "Other Business" requires Commission vote
 - 2.2 Approval of the Minutes from the May 25, 2021 regular meeting
 - 2.3 Communications received NOT related to Agenda items, if any
 - Registry of Soil Scientists
 - 2.4 Call for filing(s) of Intervener petition(s) and determination of status
- 3. New Applications for Receipt and Determination of Significance
- 4. Public Hearing and Action on New Application(s)

CONTINUATION of Public Hearing from April 20, 2021:

- 4.1 Application **IWC-2021-04**, of Rashid Hamid, for a wetlands re-designation and a wetlands permit by Commission, for the development of a +-70 unit townhouse residential project, at 291 and 293 Talcottville Rd. (Assessor ID: Map 3 Block 4 Parcels 9A & 9E) and at 27, 32, 37, 38, and 46 Naek Rd. (Assessor ID: Map 3 Block 4 Parcels 008-8, 7,4, 6, 5).
- 5. Status of Cease & Correct Orders, if any
- 6. Wetlands Enforcement Officer Report, if any
- 7. Inland Wetlands Agent Approvals, if any
- 8. Other Business
- 9. Adjournment

Draft Minutes

Town of Vernon Inland Wetlands Commission (IWC)

Tuesday, May 25, 2021, 7:00 p.m. Teleconference Meeting

DRAFT MINUTES

1. Call to Order and Roll Call

Chairperson Rachel Stansel called the meeting to order at 7:00pm. Also in attendance were Don Schubert, Kathy Minor, and Frank Galat. Staff members present were Craig Perry, Wetlands Agent, George McGregor, Town Planner, and David Smith, Town Engineer.

- 2. Administrative Actions
 - 2.1 Amendment/Adoption of Agenda Additional business to be considered under agenda item #8 "Other Business" requires Commission vote None
 - 2.2 Approval of Minutes from the April 20, 2021, regular meeting

 Don Schubert made a motion seconded by Kathy Minor to approve the minutes from the April 20, 2021, regular meeting. Motion carried unanimously.
 - Communications received NOT related to Agenda items, if any None
 - 2.4 Call for filing(s) of Intervener petition(s) and determination of status None
- New Applications for Receipt and Determination of Significance None
- Public Hearing and Action on New Application(s)
 CONTINUATION of Public Hearing from April 20, 2021:
 - 4.2 Application **IWC-2021-04**, of Rashid Hamid, for a wetlands re-designation and a wetlands permit by Commission, for the development of a +-70 unit townhouse residential project, at 291 and 293 Talcottville Rd. (Assessor ID: Map 3, Block 4, Parcels 9A and 9E) and at 27, 32, 37, 38, and 46 Naek Rd. (Assessor ID: Map 3, Block 4, Parcels 008-8,7,4,6,5).

Applicant George McCracken submitted an email dated May 18, 2021, requesting an extension to the June 22, 2021, regular meeting. The public hearing will continue at the next meeting which gives time for Commission to review modifications.

Chairperson Stansel made a motion seconded by Don Schubert to continue the Public Hearing on Application **IWC-2021-04** to the next scheduled meeting on June 2, 2021.

- 5. Status of Cease & Correct Orders, if any Craig Perry discussed Notice of Violations.
- Wetlands Enforcement Officer Report, if any
 Craig Perry discussed the IWC Project Status Report dated 2021- May included in Commission packet.

- 7. Inland Wetlands Agent Approvals, if any
 - 7.1 **WA 2021-04**, 190 Tunnel Road, Wetland Agent Approval for the work associated with the construction of two proposed buildings and a parking expansion at Pave Tool Innovators.

Certified Letter dated May 11, 2021, in Commission packet re Wetland Agent Approval for 190 Tunnel Road.

- 8. Other Business
- 9. Adjournment Chairperson Stansel made a motion seconded by Don Schubert to adjourn at 7:20pm. Motion carried unanimously.

Respectfully Submitted,

Susan Hewett Recording Secretary

COMMUNICATIONS



April 30, 2021

Dear Wetland Commission members:

Enclosed is a Notice document regarding the "Registry of Soil Scientists" brochure published by the Society of Soil Scientists of Southern New England (SSSSNE). In past years, the brochure has been distributed in Connecticut to state and local agencies and the public at no charge. Due to COVID concerns and our desire to ease the burden of in-person Town Office visits from the public, we have put a hold on printing the updated Registry and are only providing this service online on the Society's webpage at the following URL:

http://www.ssssne.org/

We have enclosed two print versions of the Notice: one is for your Inland Wetlands Commission and one copy is for the town Conservation Commission. We request that you please deliver the second copy to the Conservation Commission. Please feel free to post the Notice or keep as an office reference for public inquiries about the need to hire a Soil Scientist.

Connecticut's Inland Wetlands and Watercourses Act (IWWA: sections 22a-36 through 22a-45 of the General Statutes of Connecticut) defines "wetlands" as land, consisting of soil types designated as poorly drained, very poorly drained, alluvial, and floodplain by the National Cooperative Soil Survey. Since the Connecticut IWWA uses a soil-based definition of wetlands, a soil scientist is necessary to determine and delineate such wetlands. The IWWA also defines a "soil scientist" as an individual meeting standards set by the federal Office of Personnel Management (IWWA Section 22a-38. Definitions. (5)).

All members listed in The Registry of Soil Scientists of Southern New England (SSSSNE) meet the OPM GS-470 Soil Science Series standards, which mirror SSSSNE membership educational requirements. The Registry includes soil scientists who perform wetland delineations and other environmental evaluations in their jobs as private consultants, educators, or government employees. Member's educational background, employer, and experience are also listed.

The SSSSNE Board of Directors hopes this Registry serves as a valuable resource.

Respectfully,

Mark Stolt, President Society of Soil Scientists of Southern New England http://www.ssssne.org/

Enclosure: Notice document

Notice:

The Society of Soil Scientists of Southern New England Official Registry

will *only* be available online during 2021 (no print copies at the Town Office)

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For the current registry, please visit:

http://nesoil.com/ssssne/SSSSNE_Official_Registry.html

Or use this QR code:



The purpose of the Society Registry is to identify trained and qualified soil scientists, to foster and maintain professional competency, and to protect the public interest in the area of responsible use of soil and land resources.

The Registry of Soil Scientists intends to help in answering private and public demands for professional soil science assistance in Connecticut, Massachusetts, and Rhode Island. Although persons listed in this Registry meet specific requirements, the Society is not responsible for quality or costs involved in work performance.



www.ssssne.org

APPLICATION 1

GARDNER & PETERSON ASSOCIATES, LLC

PROFESSIONAL ENGINEERS • LAND SURVEYORS

178 HARTFORD TURNPIKE

TOLLAND, CONNECTICUT 06084

KENNETH R. PETERSON, L.S. ERIC R. PETERSON, P.E., L.S. MARK A. PETERSON, P.E. TELEPHONE: (860) 871-0808 info@GardnerPeterson.com www.GardnerPeterson.com

May 25, 2021

Mr. George McGregor, AICP Town Planner Town of Vernon 55 West Main Street Vernon, CT 06066

RE:

The Village At Naek Road
Naek Road & Talcottville Road

Dear Mr. McGregor:

In a memorandum dated April 20, 2021 to the Inland Wetlands Commission, the following four outstanding issues were raised by staff:

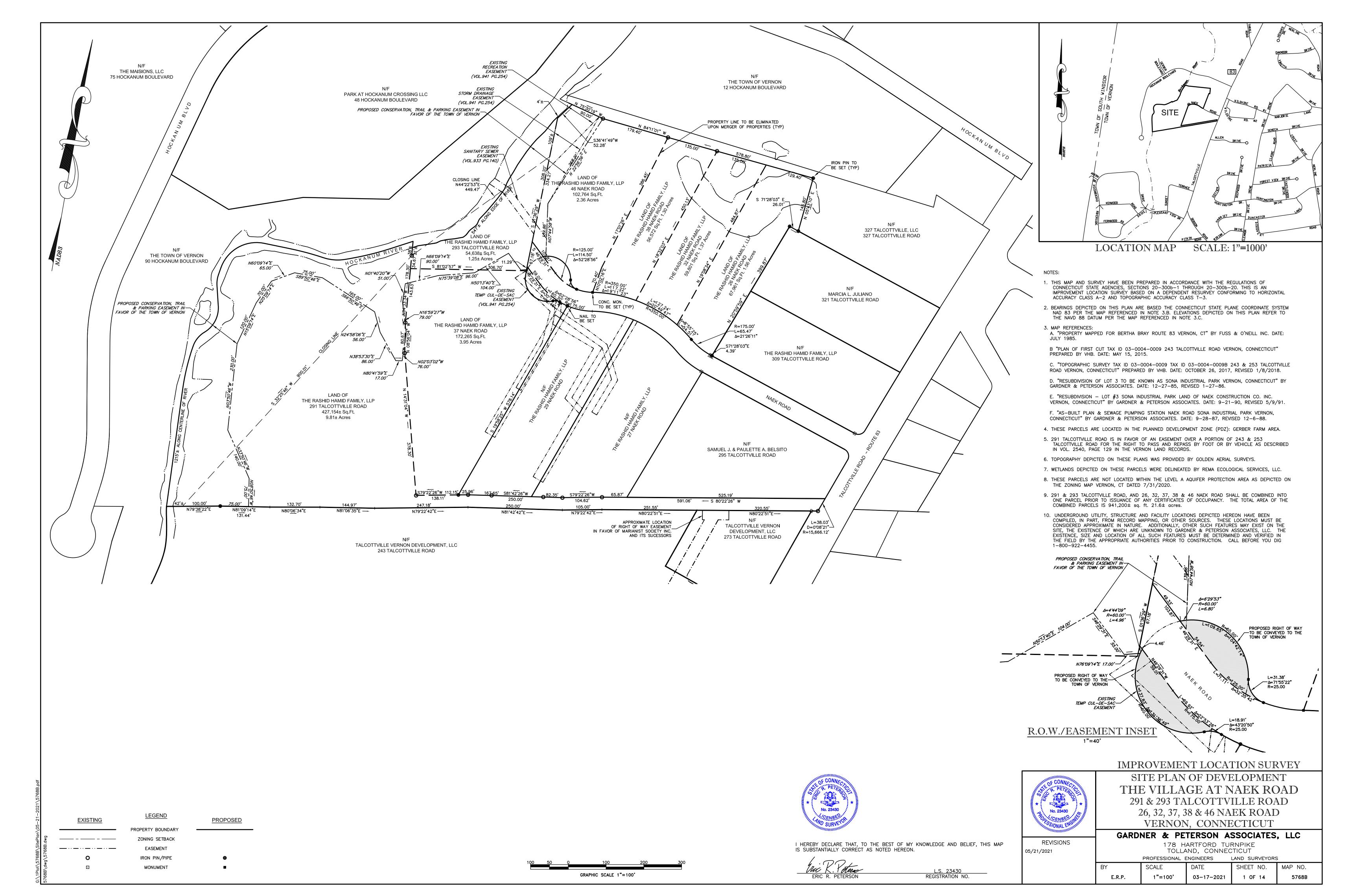
- Wetland Assessment / Functions & Values report shall be submitted
- 2. Additional details regarding the proposed walking trail shall be submitted including a draft easement document for staff review.
- 3. Staff noted several locations where the development comes within 20 to 40 feet of a designated wetland or watercourse, and requested the applicant provide an explanation and justification of the impacts and consider increasing the buffer and limit of disturbance to improve this condition.
- 4. Clarifications / revisions based on comments provided by the Town Engineer and Town Wetlands Agent.

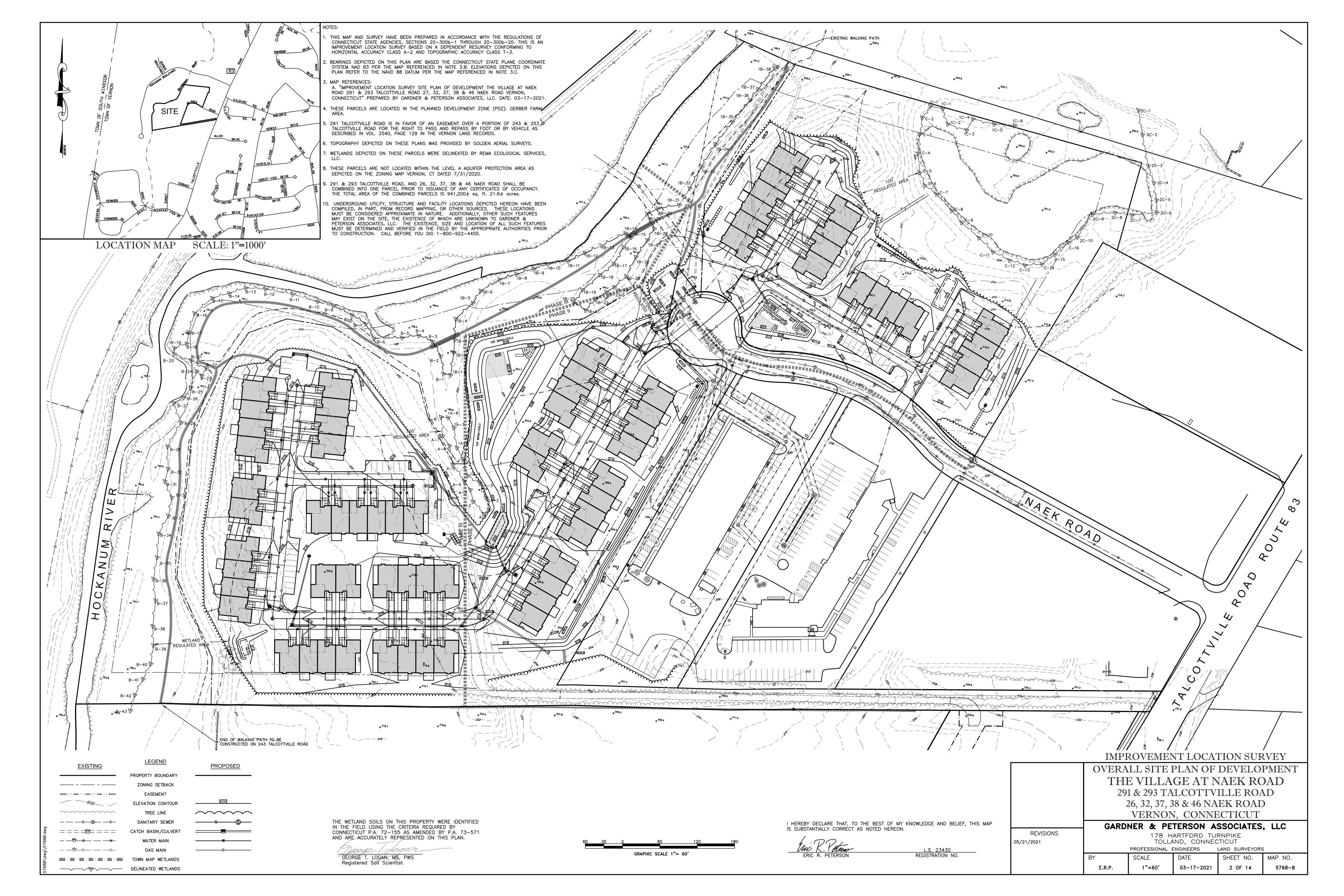
Please contact me our design team with any additional questions or comments from staff.

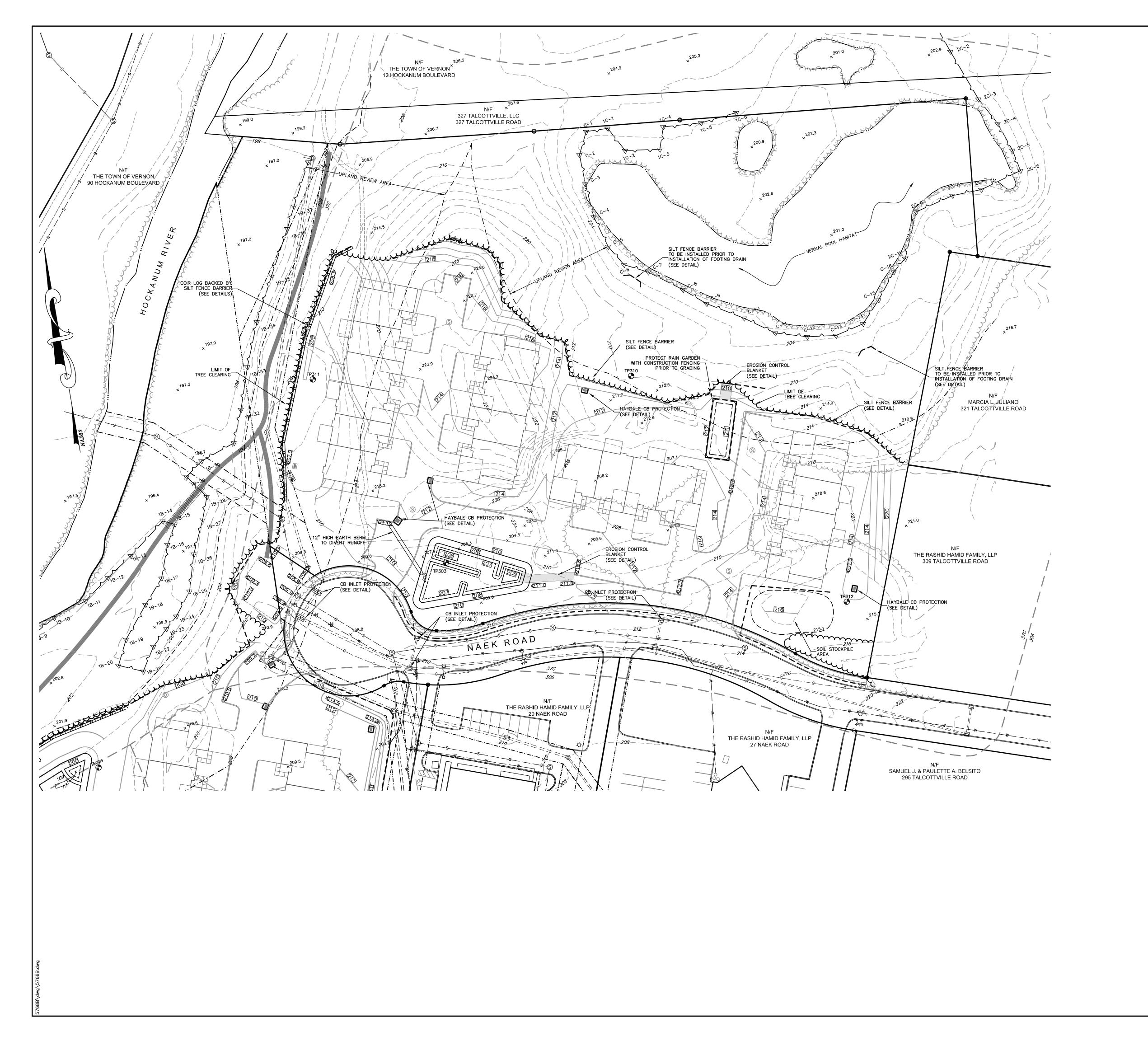
Yours truly,

Eric R. Peterson, P.E., L.S.

Gardner & Peterson Associates, LLC







- 1. THIS MAP AND SURVEY HAVE BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THROUGH 20-300b-20. THIS IS AN IMPROVEMENT LOCATION SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 AND TOPOGRAPHIC ACCURACY CLASS T-3.
- 2. BEARINGS DEPICTED ON THIS PLAN ARE BASED THE CONNECTICUT STATE PLANE COORDINATE SYSTEM NAD 83 PER THE MAP REFERENCED IN NOTE 3.B. ELEVATIONS DEPICTED ON THIS PLAN REFER TO THE NAVD 88 DATUM PER THE MAP REFERENCED IN NOTE 3.C.
- MAP REFERENCES: A. "PROPERTY MAPPED FOR BERTHA BRAY ROUTE 83 VERNON, CT" BY FUSS & O'NEILL INC. DATE:
- B "PLAN OF FIRST CUT TAX ID 03-0004-0009 243 TALCOTTVILLE ROAD VERNON, CONNECTICUT" PREPARED BY VHB. DATE: MAY 15, 2015.
- C. "TOPOGRAPHIC SURVEY TAX ID 03-0004-0009 TAX ID 03-0004-0009B 243 & 253 TALCOTTVILLE ROAD VERNON, CONNECTICUT" PREPARED BY VHB. DATE: OCTOBER 26, 2017, REVISED 1/8/2018.
- D. "RESUBDIVISION OF LOT 3 TO BE KNOWN AS SONA INDUSTRIAL PARK VERNON, CONNECTICUT" BY GARDNER & PETERSON ASSOCIATES. DATE: 12-27-85, REVISED 1-27-86.
- E. "RESUBDIVISION LOT #3 SONA INDUSTRIAL PARK LAND OF NAEK CONSTRUCTION CO. INC. VERNON, CONNECTICUT" BY GARDNER & PETERSON ASSOCIATES. DATE: 9-21-90, REVISED 5/9/91.
- F. "AS-BUILT PLAN & SEWAGE PUMPING STATION NAEK ROAD SONA INDUSTRIAL PARK VERNON, CONNECTICUT" BY GARDNER & PETERSON ASSOCIATES. DATE: 9-28-87, REVISED 12-6-88.
- 4. THESE PARCELS ARE LOCATED IN THE PLANNED DEVELOPMENT ZONE (PDZ): GERBER FARM AREA.
- 5. 291 TALCOTTVILLE ROAD IS IN FAVOR OF AN EASEMENT OVER A PORTION OF 243 & 253 TALCOTTVILLE ROAD FOR THE RIGHT TO PASS AND REPASS BY FOOT OR BY VEHICLE AS DESCRIBED IN VOL. 2540, PAGE 129 IN THE VERNON LAND RECORDS.
- 6. TOPOGRAPHY DEPICTED ON THESE PLANS WAS PROVIDED BY GOLDEN AERIAL SURVEYS.
- 7. WETLANDS DEPICTED ON THESE PARCELS WERE DELINEATED BY REMA ECOLOGICAL SERVICES, LLC.
- 8. THESE PARCELS ARE NOT LOCATED WITHIN THE LEVEL A AQUIFER PROTECTION AREA AS DEPICTED ON THE ZONING MAP VERNON, CT DATED 7/31/2020.
- 9. 291 & 293 TALCOTTVILLE ROAD, AND 26, 32, 37, 38 & 46 NAEK ROAD SHALL BE COMBINED INTO ONE PARCEL PRIOR TO ISSUANCE OF ANY CERTIFICATES OF OCCUPANCY. THE TOTAL AREA OF THE COMBINED PARCELS IS 941,200± sq. ft. 21.6± acres.
- 10. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING, OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO GARDNER & PETERSON ASSOCIATES, LLC. THE EXISTENCE, SIZE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-922-4455.

I HEREBY DECLARE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.



THE WETLAND SOILS ON THIS PROPERTY WERE IDENTIFIED IN THE FIELD USING THE CRITERIA REQUIRED BY CONNECTICUT P.A. 72-155 AS AMENDED BY P.A. 73-571 AND ARE ACCURATELY REPRESENTED ON THIS PLAN.

Nazae / Jogan GEORGE T. LOGAN, MS, PWS Registered Soil Scientist

<u>EXISTING</u>	<u>LEGEND</u>	PROPOSED
	PROPERTY BOUNDARY	
	ZONING SETBACK	
	EASEMENT	
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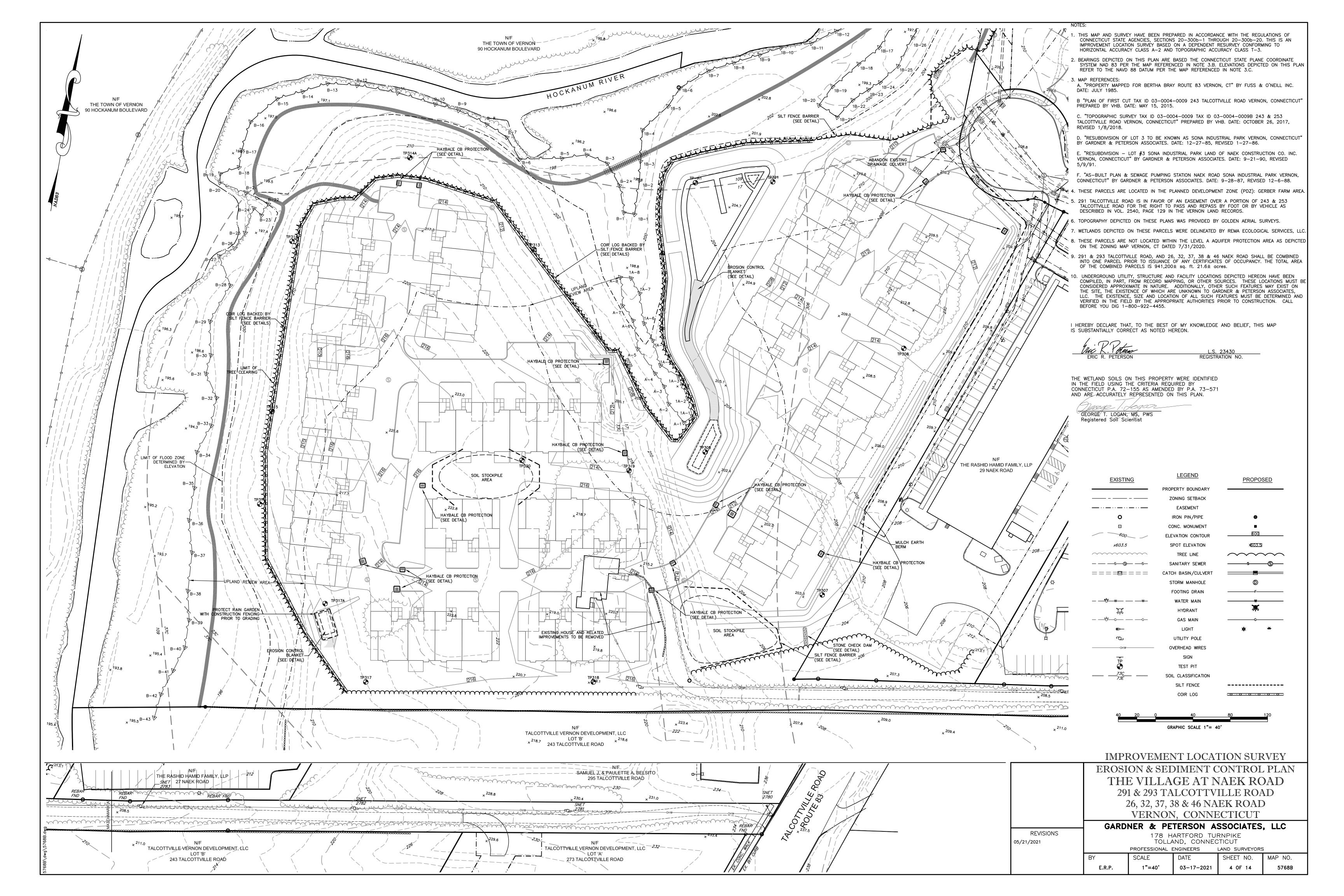
# IMPROVEMENT LOCATION SURVEY

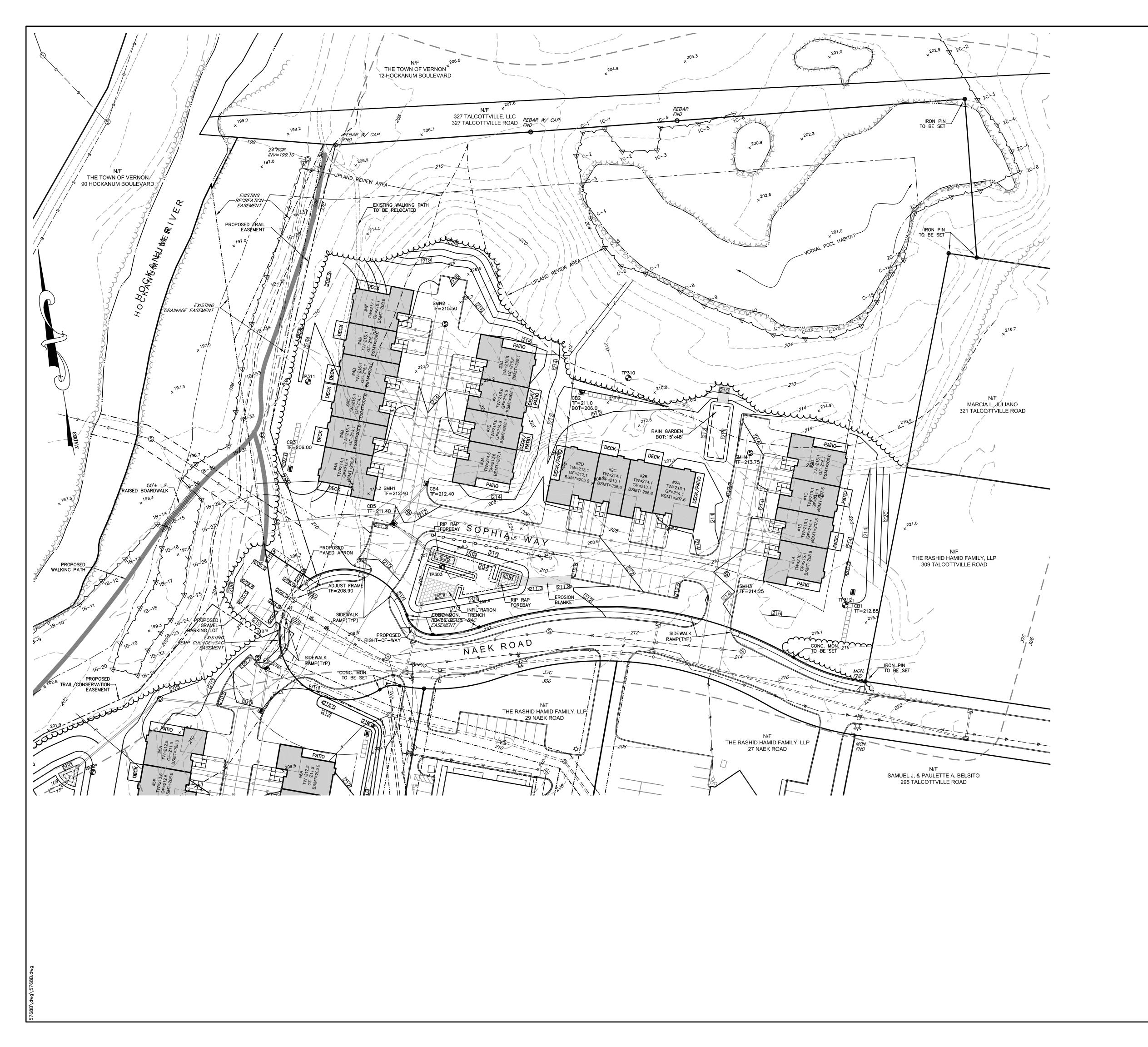
GRAPHIC SCALE 1"= 40'

	EROSION & SEDIMENT CONTROL PLAN			
	THE VILLAGE AT NAEK ROAD			
	291 & 293 TALCOTTVILLE ROAD			
	26, 32, 37, 38 & 46 NAEK ROAD			
	VERNON, CONNECTICUT			
	GARDNER & PETERSON ASSOCIATES, LLC			
REVISIONS 05/21/2021	178 HARTFORD TURNPIKE TOLLAND, CONNECTICUT			

TOLLAND, CONNECTICUT PROFESSIONAL ENGINEERS LAND SURVEYORS

BY	SCALE	DATE	SHEET NO.	MAP NO.
E.R.P.	1"=40'	03-17-2021	3 OF 14	5768B





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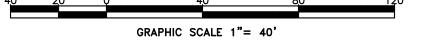
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0	IRON PIN/PIPE	•
•	MONUMENT	•
600	ELEVATION CONTOUR	600
x603.5	SPOT ELEVATION	x603.5
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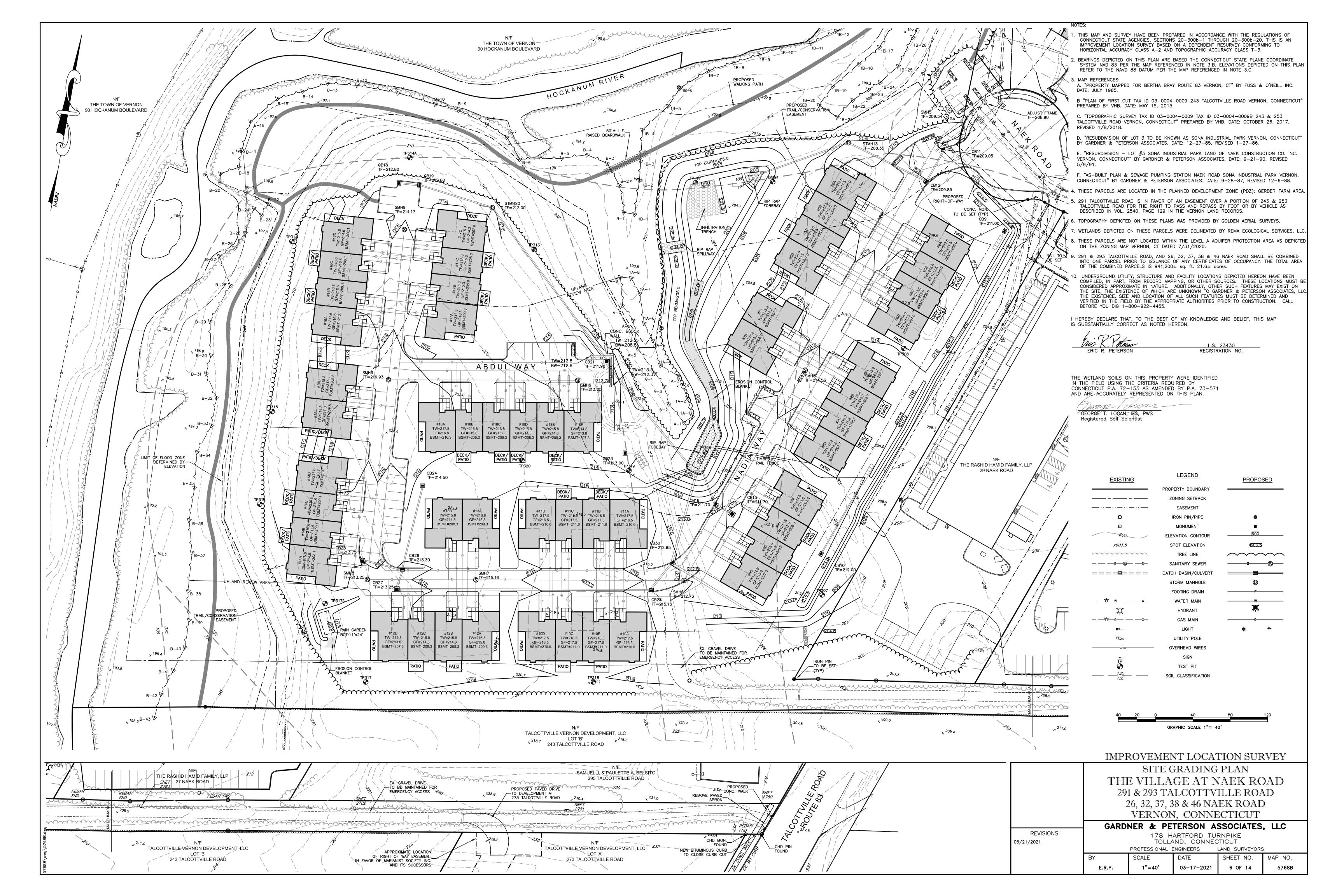
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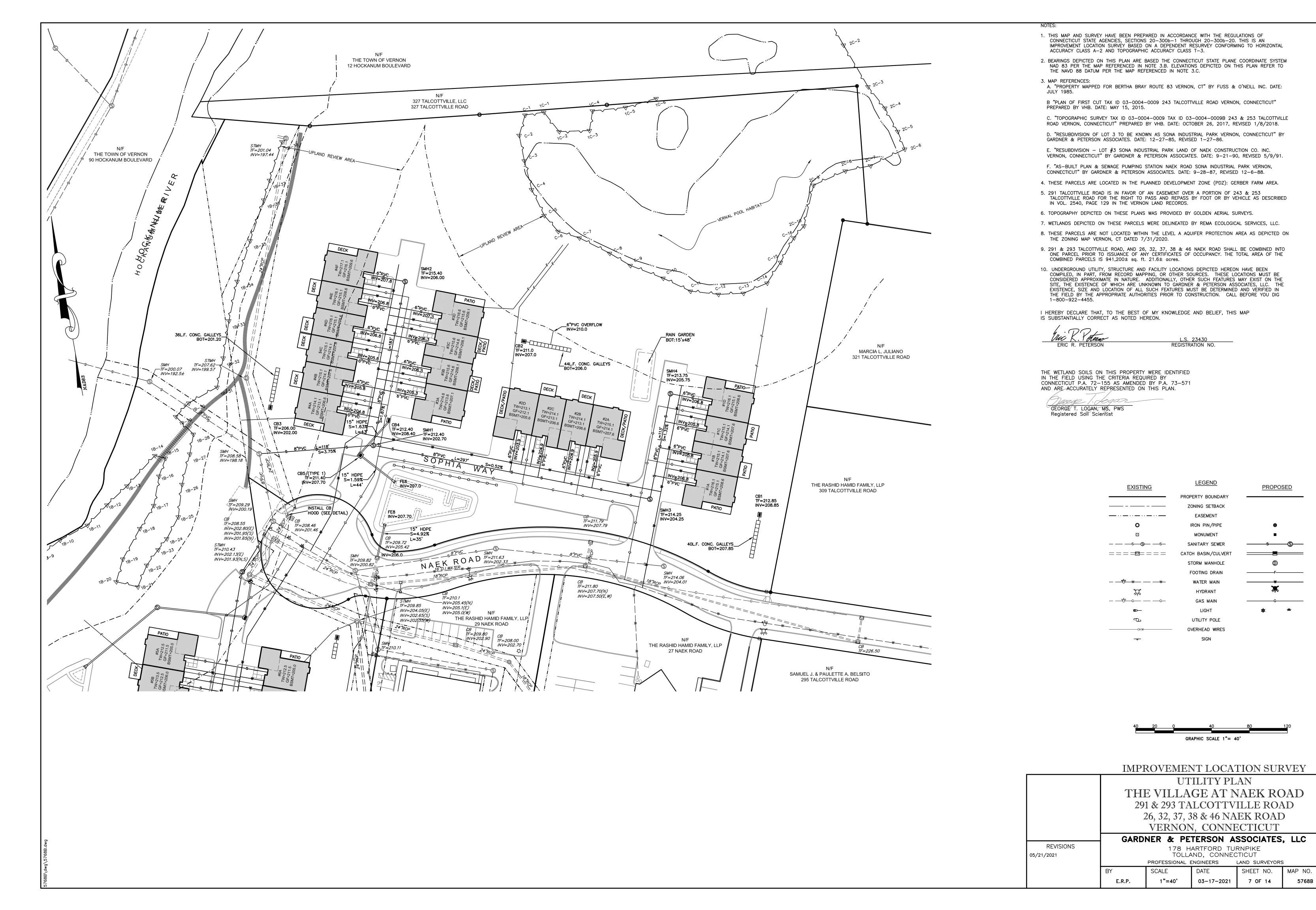
SITE GRADING PLAN THE VILLAGE AT NAEK ROAD 291 & 293 TALCOTTVILLE ROAD 26, 32, 37, 38 & 46 NAEK ROAD VERNON, CONNECTICUT GARDNER & PETERSON ASSOCIATES, LLC

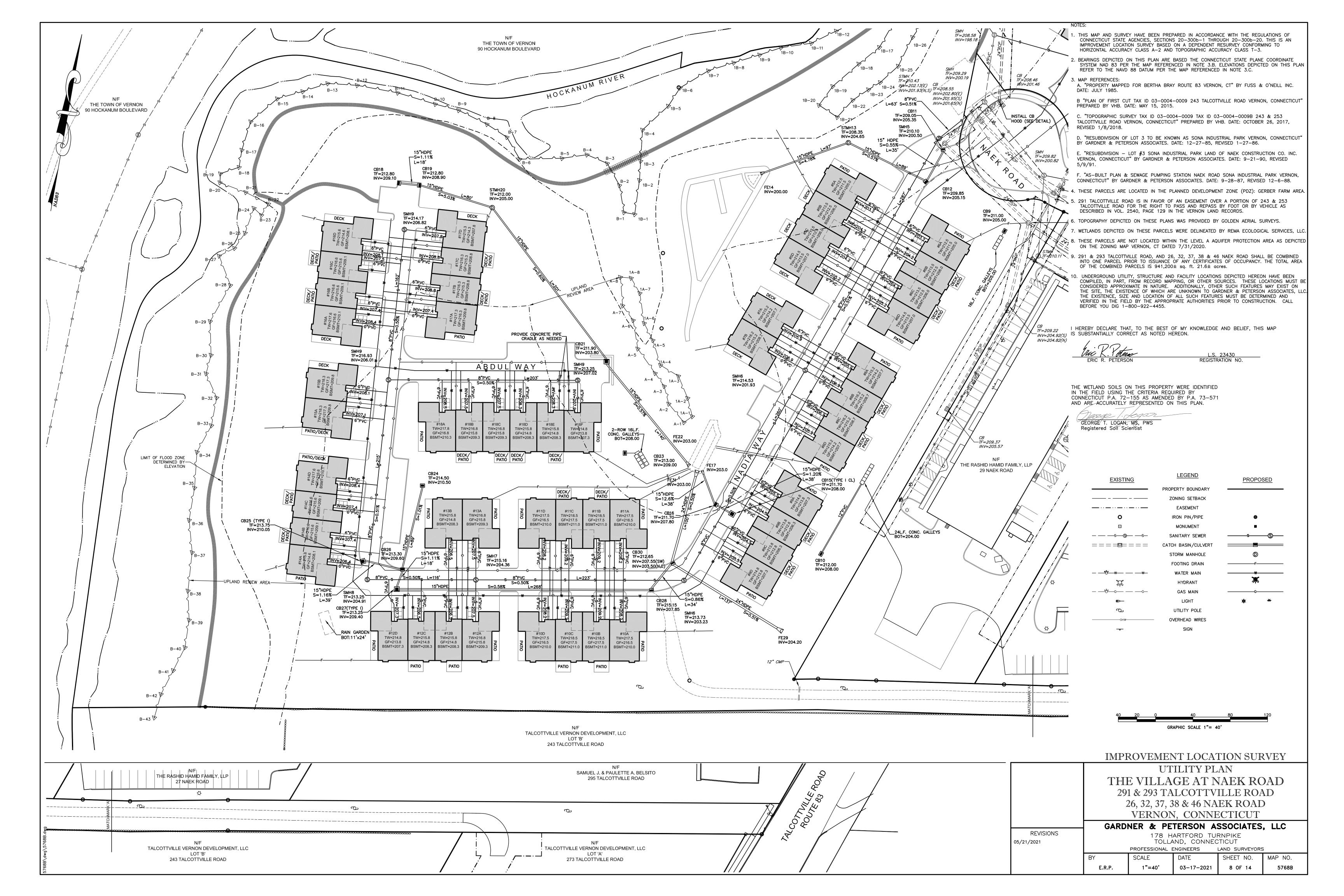
REVISIONS 05/21/2021

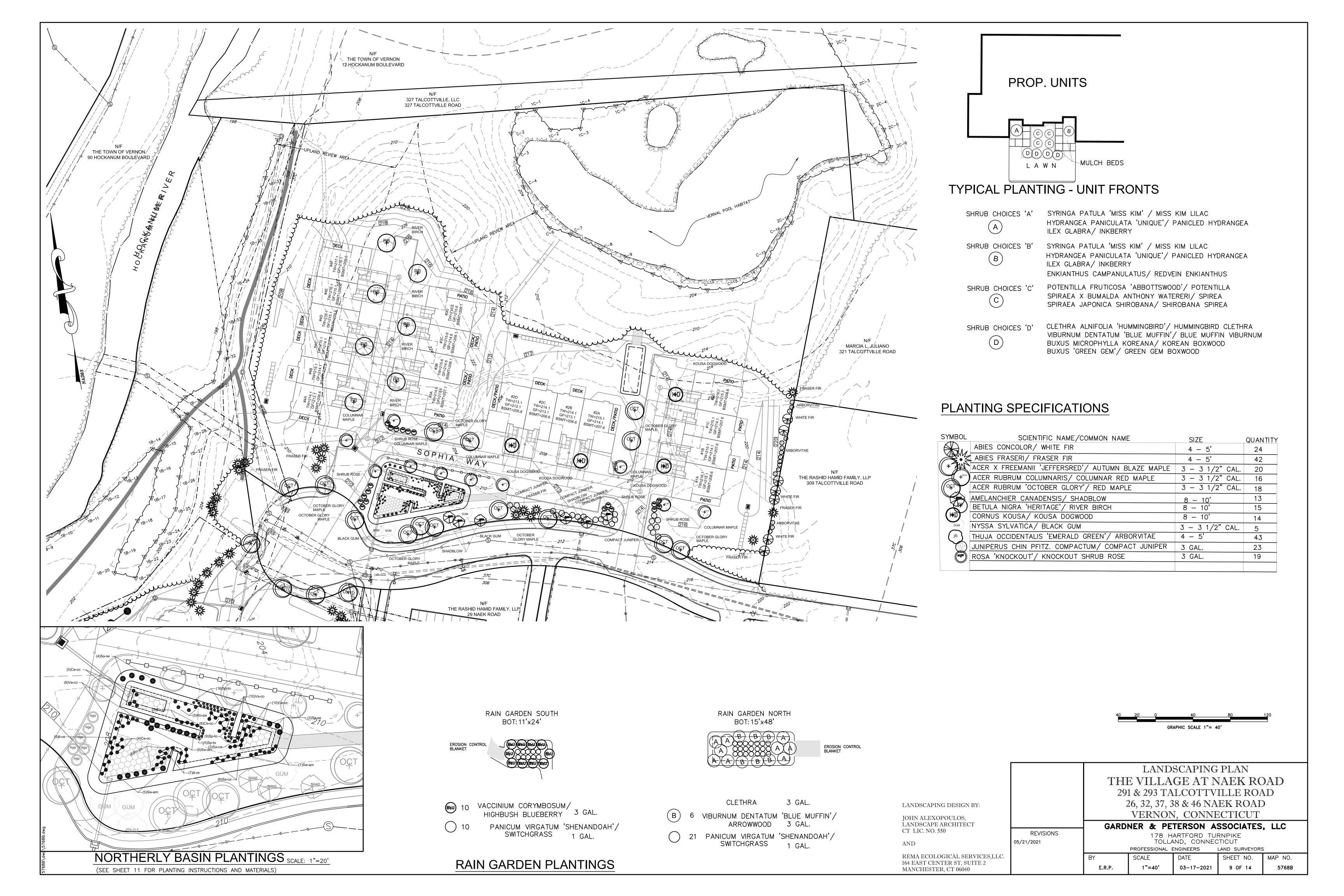
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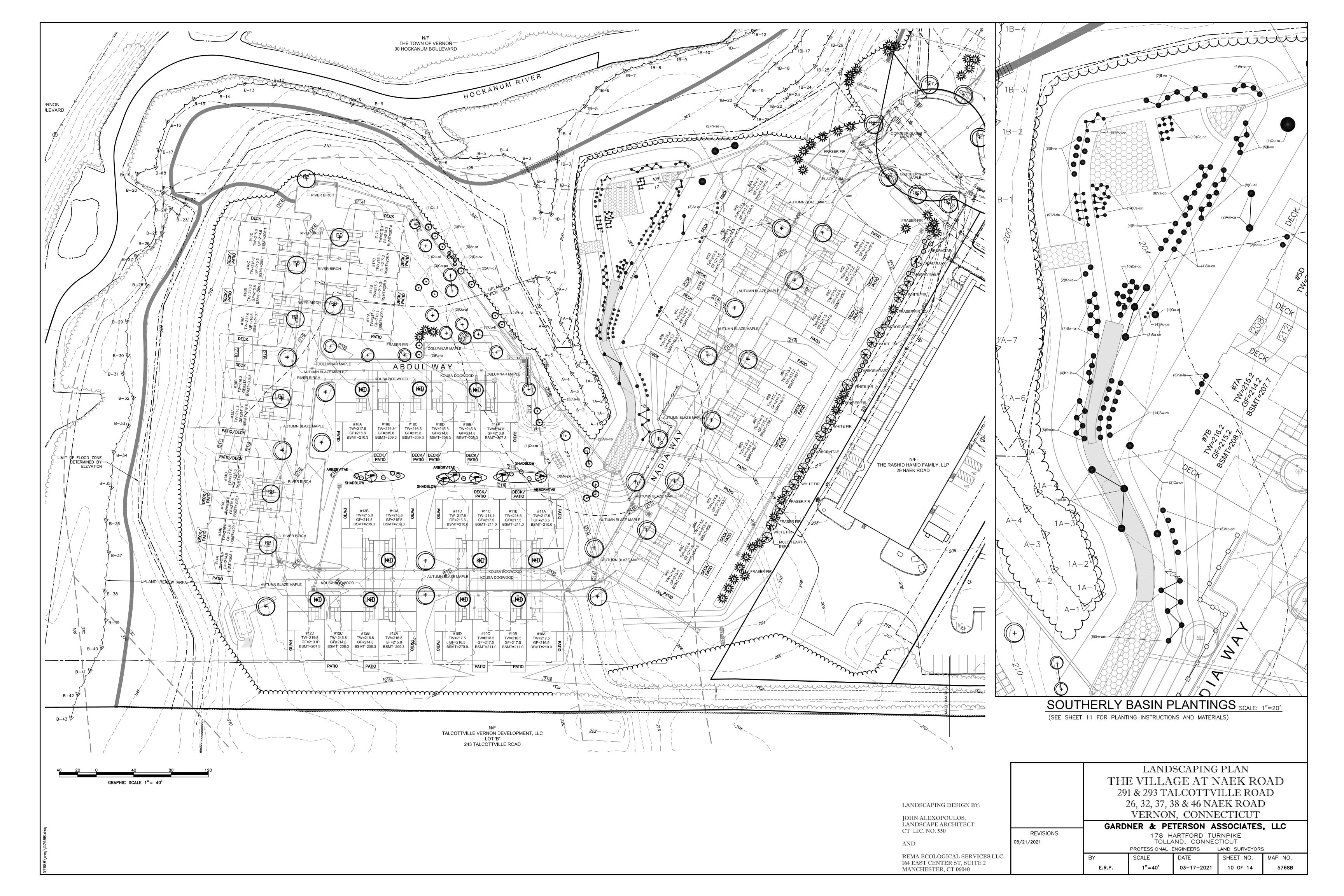
SHEET NO. E.R.P. 03-17-2021 5 OF 14











PLANTING PLAN FOR **INFILTRATION BASINS AND VICINITY IMPLEMENTATION NOTES**

1.0 Introduction

WETLAND MEADOW AND SHALLOW MARSH CREATION WITHIN THE PROPOSED INFILTRATION BASINS BY EXCAVATION, AND HERBACEOUS AND WOODY PLANTINGS, WILL TAKE PLACE IN TWO AREAS IN THE EAST AND WEST- CENTRAL PARTS OF THE SITE'S CLEARED AREA, AS SHOWN ON THE PLAN.

SOILS AT THE WETLAND CREATION SITE ARE WELL DRAINED AND SANDY WITH PERMEABILITY WELL-SUITED TO INFILTRATION.

THE GOAL FOR THE VEGETATED BASINS AND SEVERAL OTHER NEARBY OPEN AREAS IS 100% COVER, AND 95% COVER BY NATIVE SPECIES, BY THE END OF THE THREE-YEAR MONITORING PERIOD. IN ADDIOTION TO UPTAKE OF NUTRIENTS AND TOXICANTS IN PAVEMENT RTUNOFF, AND UPTAKE WATER THAT COULD OTHERWISE CAUSE EROSION AND CHANNEL DEGRADATION, PLANT SPECIES WERE SELECTED TO PROVIDE FOOD PLANTS FOR CATEPILLARS, BEETLES, AND OTHER INSECTS; FRUIT, SEED, AND NUT PRODUCTION IN DIFFERENT SEASONS, INCLUDING PERSISTENT WINTER FRUIT AND SPRING SEEDS; FORAGE FOR VERTEBRATE HERBIVORES; SUITABLE MICRO-HABITATS FOR OVERWINTERING INSECTS: AND NECTAR AND POLLEN THROUGH MUCH OF THE GROWING SEASON. SPECIES ALREADY PRESENT ON THE SITE, WERE SELECTED FIRST, AS THEY ARE ALREADY USED BY THE LOCAL FAUNAL ASSEMBLAGE.

NOTE: ALL WETLAND REPLICATION WORK, SHALL BE SUPERVISED BY AN ECOLOGIST (OR WETLAND SCIENTIST), INCLUDING INITIAL GRADING, PLANTING, MARKING INVASIVES IN ADJACENT UPLAND BUFFER AREAS. A PRE-IMPLEMENTATION MEETING SHALL TAKE PLACE AT LEAST ONE MONTH PRIOR TO PLAN IMPLEMENTATION, BETWEEN THE WETLAND SCIENTIST, THE SITE CONTRACTOR, AND THE LANDSCAPER, AND THE TOWN'S WETLAND AGENT. AT THE TOWN'S DISCRETION.

2.0 PLANTING OF STORMWATER BASINS

PREPARATION

- . ORDER THE POTTED WOODY PLANTS AND THE SEED MIX, FOR DELIVERY RIGHT AFTER COMPLETION OF GRADING. STORE IN SHADE WHEN THEY ARRIVE.
- 2. EARTHWORK FOR THE STORMWATER BASINS WILL TAKE PLACE IN APRIL / MAY, OR IN AUGUST OR EARLY SEPTEMBER, SO THAT PLANTINGS CAN BE INSTALLED IMMEDIATELY AFTERWARDS, EITHER IN LATE SPRING OR VERY EARLY FALL SEASONS. PREFERABLY IT SHALL COMMENCE DURING THE SAME YEAR THAT PROJECT CONSTRUCTION BEGINS.
- 3. INSTALL PERIMETER EROSION CONTROLS AROUND THE STORMWATER MANAGEMENT AREAS AS SHOWN ON PLAN; CORRECTLY TRENCHED AND STAKED SILT FENCE PER THE 2002 CONNECTICUT **EROSION & SEDIMENTATION CONTROL GUIDELINES (2002 GUIDELINES)**

EARTHWORK

- 4. CLEAR AND GRUB THE PROPOSED STORMWATER MANAGEMENT AREAS, REMOVE THE TOPSOIL FROM THESE LOCATIONS & PLACE IN A DESIGNATED SOIL STOCKPILE AREA, AT LEAST 150 FEET AWAY, THIS TOPSOIL WILL BE USED ELSEWHERE ON THE SITE, IT CONTAINS TOO MANY INVASIVE SEEDS AND RHIZOMES FOR USE IN THE STORMWATER MANAGEMENT AREA. TOPSOIL AND SUBSOIL FROM THE STORMWATER MANAGEMENT AREAS WILL BE TRUCKED TO OTHER PARTS OF THE SITE, AND MAY BE STOCKPILED FOR USE IN AREAS OF MAINTAINED LAWN.
- 5. CLEAR AND GRUB, AND SALVAGE INVASIVE-FREE TOPSOIL FROM ADJACENT UPLANDS TO THE EAST AND WEST, WHERE RESIDENTIAL BUILDINGS 3, 4, 15, 16, AND 17 ARE TO BE BUILT.
- 6. STOCKPILE TOPSOIL TO BE USED WITHIN FIFTY FEET OF EACH BASIN, AND INSTALL PERIMETER
- 7. EXCAVATE BASINS FOLLOWING GRADING PLANS, WITH OVER EXCAVATION BY 6 INCHES TO ACCOMMODATE SALVAGED TOPSOIL
- 8. ALSO APPLY 6 INCHES OF HIGH-QUALITY SALVAGED TOPSOIL TO ADDITIONAL NEARBY AREAS TO RECEIVE NATIVE PLANTINGS.
- 9. A **6-INCH** (MINIMUM) TOPSOIL LAYER OF SALVAGED SANDY-LOAM FOREST TOPSOIL, WITH 2-4% ORGANIC CONTENT, WILL BE PLACED TO REALIZE THE FINAL GRADES. 10. EXCAVATION AND GRADING WILL TAKE PLACE UNDER THE DIRECTION OF THE WETLAND
- SCIENTIST. GRADING WILL FOLLOW THE PLAN, BUT IN THE EVENT OF UNEXPECTED SOIL AND HYDROLOGIC CONDITIONS, THE WETLAND SCIENTIST MAY MAKE IN-FIELD ADJUSTMENTS.
- 11. TO PREVENT COMPACTION, NO MACHINERY WILL BE ALLOWED WITHIN THE AREAS WHERE TOPSOIL HAS BEEN PLACED. TOPSOIL PLACEMENT SHALL PROCEED FROM BACK TO FRONT.

PLANTINGS

- 12. ORDER THE WOODY PLANTING MATERIALS FOR DELIVERY DURING THE PLANTING WINDOWS LISTED ABOVE (MID TO LATE SPRING OR EARLY FALL). STORE IN SHADE WHEN THEY ARRRIVE AND INSTALL WITHIN THREE DAYS OF DELIVERY.
- 13. A WETLAND PROFESSIONAL OR ECOLOGIST SHALL SPECIFY PLANTING AND SEEDING LOCATIONS, AND MARK ANY SHRUBS AND PERENNIAL WILDFLOWERS TO BE TRANSPLANTED. THE PROFESSIONAL WILL DIRECT THE INSTALLATION, EITHER BY STAKING PLANTING LOCATIONS WITH A WIRE FLAG OR BAMBOO STAKE LABELED WITH THE SPECIES NAME OR CODE; OR POTTED STOCK MAY ALSO BE DIRECTLY PLACED AT PLANTING LOCATION.

14. INSTALL THE PURCHASED WOODY MATERIALS FIRST, THEN SPREAD SEED..

- 15. WOODY PLANTINGS (SEE TABLE 1 AND TABLE 2) SHALL BE PLANTED IN SAME-SPECIES CLUSTERS, AS SHOWN ON THE PLANS.
- 16. DIG HOLES BY HAND TO MINIMIZE COMPACTION OF SOIL (MECHANICAL AUGERS ARE PROHIBITED). WATER HOLES BEFORE PLANTING, UNLESS SOIL IS ALREADY MOIST. ADD SLOW RELEASE FERTILIZER (OSMACOTE, MILORGANITE OR EQUIVALENT) TO PLANTING HOLE. PLACE PLANTS INTO HOLES AND REPLACE SOIL, SO THAT THERE IS FULL COVERAGE OF ROOTS, WITH NO AIR SPACES AND LEVEL SOIL AROUND THE PLANT. HOLES SHALL BE OVERSIZED (2X THE ROOT MASS DIAMETER) AND BACKFILLED WITH THE HIGH QUALITY SALVAGED, STOCKPILED FOREST TOPSOIL IN AN OVERSIZED TRANSPLANT POT (NOT SUBSOIL REMOVED FROM BOTTOM PART OF HOLE).
- 7. MULCH WITH A THREE-INCH LAYER OF WELL-ROTTED HARDWOOD MULCH TO REDUCE
- COMPETITION FROM EXISTING MEADOW VEGETATION IN A THREE-FOOT DIAMETER CIRCLE. LEAVE A GAP OF THREE INCHES AROUND EACH TRUNK. FORM SAUCERS AROUND ALL MULCHED TREE AND SHRUB PLANTINGS, TWO TO THREE INCHES HIGH, 36" ACROSS FOR NURSERY STOCK. WATER RIGHT AFTER PLANTING.

- 18. SEEDING: APPLY ONE POUND IN EACH BASIN OF THE "LOW GROW MIX FOR WET SITES" FROM PINELANDS NURSERY TO BASIN BOTTOMS AND LOWER SLOPES. FOR UPPER SLOPES AND OUTER PORTIONS OF STORMWATER MANAGEMENT AREA, TO BE MAINTAINED LONG-TERM BY MOWING, USE THE STANDARD CTDOT GRASS MIX FOR LOAMY SAND SOILS. AFTER MIXING SEED 1:1 WITH SAND, OR WITH NON-CLUMPING KITTY LITTER, SPREAD SEED OVER BARE SOIL AREAS. AVOIDING MULCHED CIRCLES AROUND SHRUB PLANTINGS. IF GERMINATION RATES ARE LOW, BASED ON LATE GROWING SEASON MONITORING, PURCHASE ADDITIONAL SEED, AND OVER-SEED IN FALL
- 19. FOR SPRING SEEDING IN MOIST, BUT NOT SATURATED SOIL, LIGHTLY RAKE IN SEED (LESS THAN 1/2 INCH DEEP), TAMP DOWN, AND LIGHTLY MULCH WITH STRAW (FREE OF SEEDS) TO HOLD MOISTURE FOR GERMINATION. FOR FALL SEEDING. WAIT UNTIL AFTER HARD FROST: SEED MAY SIMPLY BE SOWN, NOT INCORPORATED. SNOW AND FROST WILL INCORPORATE INTO THE SOIL NOTE THAT COLD STRATIFICATION WILL INCREASE GERMINATION RATES ODF SOME SPECIES IN A FALL SEEDING, BUT MORE SEEDS WILL ALSO BE EATEN BY WILDLIFE OR WASHED AWAY. IF SOIL IS SATURATED, BROADCAST SOIL ON SURFACE WITHOUT RAKING. USE STANDARD CTDOT GRASS MIX FOR SLOPE STABILIZATION FOR UPLAND PERIMETER PORTIONS OF BASIN, BERM-TOP BENCHES, AND OUTER SLOPES.
- 20. SPREAD A THIN LAYER OF STRAW MULCH OVER ALL SEEDED AREAS WITHOUT STANDING WATER. ALLOWING SOME LIGHT PENETRATION.

3.0 PROTECTION FROM HERBIVORY

- 1. WOODY PLANTINGS WILL BE MONITORED DURING THE FIRST AND SECOND GROWING SEASONS AFTER PLAN IMPLEMENTATION FOR EXCESSIVE HERBIVORY. IF OBSERVED, THE WETLAND ECOLOGIST MAY PROPOSE ADDITIONAL CONTROLS/METHODS TO REDUCE HERBIVORY. A TEMPORARY DEER FENCE MAY BE CONSIDERED. AS THE STORMWATER MANAGEMENT AREAS ARE RELATIVELY SMALL.
- 2. DEER HERBIVORY DID NOT APPEAR SEVERE DURING BASELINE INVESTIGATIONS. IF CONDITIONS WORSEN, THE ORGANIC FERTILIZER MILORGRANITE SHALL BE USED AT EACH SHRUB/TREE PLANTING. AND ALONG THE PERIMETER OF THE ENTIRE MITIGATION AREA. THIS FERTILIZER IS A MILD TO MODERATE DETERRENT TO HERBIVORY BY DEER, BUT MUST BE APPLIED EVERY FEW MONTHS TO BE EFFECTIVE.

4.0 INITIAL FOLLOW-UP AND MAINTENANCE

- 1. PERIMETER SEDIMENT CONTROLS. MAINTAIN PER THE 2002 CT E&S GUIDELINES, CHECK AFTER EACH RAIN MORE THAN ONE INCH. REMOVE SILT FENCE AS SOON AS GROUND IS VEGETATED (>80% COVER) TO PREVENT IMPEDING ANIMAL MOVEMENT TO AND FROM ADJACENT SEASONALLY FLOODED AND SATURATED WETLANDS. SEDIMENT COLLECTED BY THESE DEVICES WILL BE REMOVED AND PLACED UPLAND IN A MANNER THAT PREVENTS ITS EROSION AND TRANSPORT TO A WATERWAY OR WETLAND.
- 2. IRRIGATION: WATER ALL SEEDED AREAS, PLANTINGS AND/OR TRANSPLANTS AT LEAST WEEKLY IN DROUGHTY PERIODS. MORE FREQUENT WATERING WILL INCREASE PLANTINGS SUCCESS.

5.0 Invasive Plant Control

- 1. IN THE FALL OF YEAR 1 AND IN THE EARLY SUMMER OF YEAR 2 THE ECOLOGIST WILL FLAG FOR REMOVAL AND/OR PULL WOODY INVASIVES WITHIN THE STORMWATER MANAGEMENT AREAS AND IN THE VICINITY, WITHIN FIFTY FEET. SIGNFICANT, LOCALIZED INVASIVE SEED SOURCES FURTHER WITHIN 100 FEET WILL ALSO BE REMOVED.
- 2. TARGETED TRICLOPYR HERBICIDE RATHER THSN BROAD-SPECTRUM GLYPHOSPATE CHALL BE USED, USING SPOT APPLICATION METHODS RATHER THAN FOLAR SPRAYING.
- 3. INVASIVE PLANT CONTROL WITHIN THESE AREAS SHALL TAKE PLACE FOR TWO (2) YEARS FOLLOWING THE YEAR OF PLAN IMPEMENTATION (I.E., YEAR 2 THROUGH YEAR 3) FOLLOWING THE PROCEDURES PROMULGATED BY THE CT DEEP, NYDES, AND THE NATURE CONSERVANCY.

6.0 Monitoring

- 1. INSPECTIONS BY A QUALIFIED WETLAND PROFESSIONAL OR ECOLOGIST SHALL TAKE PLACE DURING THE GROWING SEASON, WITHIN THREE MONTHS FOLLOWING INSTALLATION, AND TWICE DURING EACH OF THE **TWO (2) NEXT GROWING SEASONS**, AT THE STORMWATER MANAGEMENT AREAS, ONCE IN LATE MAY THROUGH JUNE, AND ONCE IN EARLY FALL. ADDITIONAL INSPECTIONS MAY BE NECESSARY AT THE DISCRETION OF THE WETLAND SCIENTIST TO ENSURE THE SUCCESS OF THE WETLAND REPLICATION.
- 2. DURING INSPECTIONS, CHECK STORMWATER MANAGEMENT AREAS FOR SEEDLINGS OF THE FOLLOWING INVASIVE SPECIES AND MECHANICALLY REMOVE: COMMON REED, MORROW'S HONEYSUCKLE, AUTUMN OLIVE, MULTIFLORA ROSE, ASIATIC BITTERSWEET, JAPANESE BARBERRY, GLOSSY BUCKTHORN, BURNING BUSH, MUGWORT, AND GARLIC MUSTARD. INSPECTIONS SHALL BE DONE BY THE WETLANDS PROFESSIONAL, WHO COULD ALSO IDENTIFY OTHER INVASIVE PLANT SPECIES, BUT PERSONNEL TRAINED BY THE PROFESSIONAL IN IDENTIFICATION OF INVASIVE SEEDLINGS MAY ASSIST WITH MECHANICAL REMOVAL (WEEDING).
- COMPETING PLANTS: IF THE WETLANDS PROFESSIONAL DETERMINES THAT EXCESSIVE NUMBERS OF SEEDLINGS OF A PARTICULAR NATIVE SPECIES HAVE GERMINATED ON SITE (E.G. CATTAIL), REMOVE THEM BY HOEING OR HAND PULLING. COLONIZATION BY A VARIETY OF NATIVE SPECIES IS EXPECTED AND IS DESIRABLE.
- REMEDIAL MEASURES SUCH AS REPLACEMENT PLANTINGS, HYDROLOGIC ADJUSTMENTS, AND DEER BROWSING PROTECTION, MAY BE RECOMMENDED AND SUPERVISED BY THE WETLAND SCIENTIST AND IMPLEMENTED BY THE PROPERTY OWNER, FOR SIGNIFICANT PROBLEMS. TOWN IS TO BE CONSULTED.
- 5. A BRIEF REPORT TO THE TOWN'S INLAND WETLANDS AND WATERCOURSES AGENCY WILL SUBMITTED BY NOVEMBER 30TH OF THE MONITORING YEAR.

REMA Ecological Services, LLC

5/18/2021

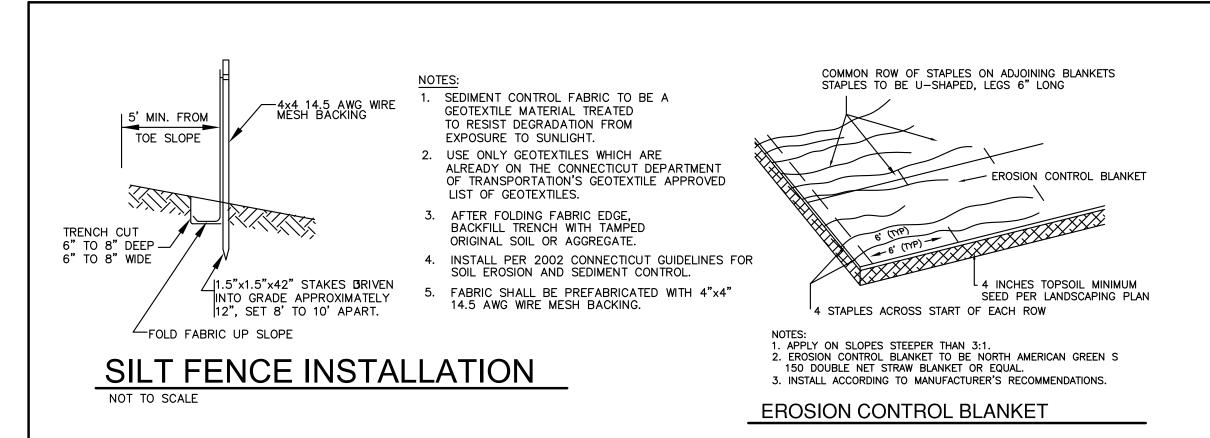
TABLES OF PLANTING MATERIALS FOR WETLAND REPLICATION AREA &VICINITY VILLAGE AT NAEK RIOAD, VERNON, CONNECTICUT

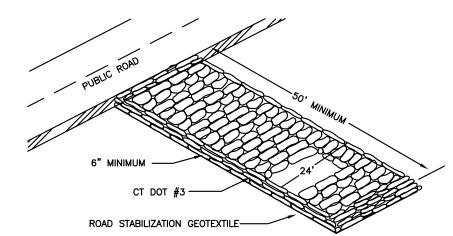
Hydrologic Zones: Zone A. S:	aturated/Sha	llow inundation	on; Zone B: seasonally satu	rated moist				
Zone C: moderately well drain								
·	_							
Scientific Name	<u>ID</u>	<u>Zone</u>	Common Name	<u>Size</u>	Shade Tolerant?	<u>E.Side</u>	<u>W.Side</u>	Totals
TABLE 1a. FULL SIZE	TREES				Tolerant			Totals
Carya ovata	Ca-ov	B,C	Shagbark hickory	4'-6'	Υ		4	4
Prunus serotina	Pr-se	C,D	Black cherry	4'-6'	N		2	2
Quercus alba	Qu-al	D	White oak	4'-6'	Υ		4	4
Quercus rubra	Qu-ru	D	Red oak	4'-6'	N		2	2
Total:							12	12
TABLE 1b. SMALL SIZ	ZE TREES							
Amelanchier canadensis	Am-ca	B,C,D	Shadblow	2'-3'	N		6	6
Carpinus caroliniana	Ca-pe	B,C	Ironwood	2'-3'	Y		3	3
Cornus florida	Co-fl	C,D	Flowering Dogwood	4'-6'	Y		2	2
Prunus virginiana	Pr-Vi	B,C,D	Choke Cherry	2'-3'	N		5	5
Total:		5,0,5	Chara charry				16	16
	<u>ID</u>	<u>Zone</u>	Common Name	<u>Size</u>	Shade <u>Tolerant</u> ?	<u>E.Side</u>	<u>W.Side</u>	Totals
Scientific Name								
		BCD	Chokeherry	2'-3'	N	4	12	16
Aronia arbutifolia	Ar-ar	B,C,D AB	Chokeberry Buttonbush	2'-3' 2'-3'	N Y	4 27	12 34	16 61
Aronia arbutifolia Cephalanthus occidentalis	Ar-ar Ce-oc	AB	Buttonbush	2'-3'	N Y Y	4 27 0	34	61
Aronia arbutifolia Cephalanthus occidentalis Clethra alnifolia	Ar-ar Ce-oc Cl- al	AB B,C	Buttonbush Sweet pepperbush	2'-3' 2'-3'	Υ	4 27 0 11	34 8	61 8
Aronia arbutifolia Cephalanthus occidentalis Clethra alnifolia Ilex verticillata	Ar-ar Ce-oc Cl- al Il-ve	AB B,C ABC	Buttonbush Sweet pepperbush Winterberry	2'-3' 2'-3' 2'-3'	Υ		34	61 8 31
Aronia arbutifolia Cephalanthus occidentalis Clethra alnifolia Ilex verticillata Kalmia latifolia	Ar-ar Ce-oc Cl- al Il-ve Ka-la	AB B,C ABC BCD	Buttonbush Sweet pepperbush Winterberry Mountain laurel	2'-3' 2'-3' 2'-3' 2'-3'	Υ		34 8 20 13	61 8 31 13
Aronia arbutifolia Cephalanthus occidentalis Clethra alnifolia Ilex verticillata Kalmia latifolia Morella pensylvanica	Ar-ar Ce-oc Cl- al Il-ve Ka-la Mo-pe	AB B,C ABC BCD C,D	Buttonbush Sweet pepperbush Winterberry Mountain laurel Bayberry	2'-3' 2'-3' 2'-3' 2'-3' 2'-3'	Υ		34 8	61 8 31 13 17
Aronia arbutifolia Cephalanthus occidentalis Clethra alnifolia Ilex verticillata Kalmia latifolia Morella pensylvanica Rhodedendron nudiflorum	Ar-ar Ce-oc Cl- al II-ve Ka-la Mo-pe Rh-nu	AB B,C ABC BCD	Buttonbush Sweet pepperbush Winterberry Mountain laurel Bayberry Pink azalea	2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3'	Υ	0 11 0 0 0	34 8 20 13	61 8 31 13 17 4
Aronia arbutifolia Cephalanthus occidentalis Clethra alnifolia Ilex verticillata Kalmia latifolia Morella pensylvanica Rhodedendron nudiflorum Rosa palustris	Ar-ar Ce-oc Cl- al Il-ve Ka-la Mo-pe Rh-nu Ro-pa	AB B,C ABC BCD C,D C	Buttonbush Sweet pepperbush Winterberry Mountain laurel Bayberry Pink azalea Swamp rose	2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3'	Υ		34 8 20 13	61 8 31 13 17 4
Aronia arbutifolia Cephalanthus occidentalis Clethra alnifolia Ilex verticillata Kalmia latifolia Morella pensylvanica Rhodedendron nudiflorum Rosa palustris Salix sericea	Ar-ar Ce-oc Cl- al Il-ve Ka-la Mo-pe Rh-nu Ro-pa Sa-se	AB B,C ABC BCD C,D	Buttonbush Sweet pepperbush Winterberry Mountain laurel Bayberry Pink azalea Swamp rose Silky willow	2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3'	Υ	0 11 0 0 0 0 13	34 8 20 13	61 8 31 13 17 4 13
Aronia arbutifolia Cephalanthus occidentalis Clethra alnifolia Ilex verticillata Kalmia latifolia Morella pensylvanica Rhodedendron nudiflorum Rosa palustris Salix sericea Sambucus canadensis	Ar-ar Ce-oc Cl- al Il-ve Ka-la Mo-pe Rh-nu Ro-pa Sa-se Sa-ca	AB B,C ABC BCD C,D C A B,C B,C	Buttonbush Sweet pepperbush Winterberry Mountain laurel Bayberry Pink azalea Swamp rose Silky willow American elderberry	2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3'	Υ	0 11 0 0 0	34 8 20 13	61 8 31 13 17 4 13 10
Aronia arbutifolia Cephalanthus occidentalis Clethra alnifolia Ilex verticillata Kalmia latifolia Morella pensylvanica Rhodedendron nudiflorum Rosa palustris Salix sericea Sambucus canadensis Spiraea tomentosa	Ar-ar Ce-oc Cl- al Il-ve Ka-la Mo-pe Rh-nu Ro-pa Sa-se Sa-ca Sp-to	AB B,C ABC C,D C A B,C B,C B A,B	Buttonbush Sweet pepperbush Winterberry Mountain laurel Bayberry Pink azalea Swamp rose Silky willow American elderberry Steeplebush	2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 12"- 24"	Y Y Y Y N N Y N N N N	0 11 0 0 0 13 7	34 8 20 13	61 8 31 13 17 4 13 10 19
Aronia arbutifolia Cephalanthus occidentalis Clethra alnifolia Ilex verticillata Kalmia latifolia Morella pensylvanica Rhodedendron nudiflorum Rosa palustris Salix sericea Sambucus canadensis Spiraea tomentosa Swida amomum	Ar-ar Ce-oc Cl- al Il-ve Ka-la Mo-pe Rh-nu Ro-pa Sa-se Sa-ca Sp-to Sw-am	AB B,C ABC BCD C,D C A B,C B A,B B,C	Buttonbush Sweet pepperbush Winterberry Mountain laurel Bayberry Pink azalea Swamp rose Silky willow American elderberry Steeplebush Silky dogwood	2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3'	Y Y Y Y N N Y N N N N	0 11 0 0 0 13 7 14 30	34 8 20 13 17 4 0 3 5 0	61 8 31 13 17 4 13 10 19 30 27
Aronia arbutifolia Cephalanthus occidentalis Clethra alnifolia Ilex verticillata Kalmia latifolia Morella pensylvanica Rhodedendron nudiflorum Rosa palustris Salix sericea Sambucus canadensis Spiraea tomentosa Swida amomum Swida racemosum	Ar-ar Ce-oc Cl- al Il-ve Ka-la Mo-pe Rh-nu Ro-pa Sa-se Sa-ca Sp-to Sw-am Sw-ra	AB B,C ABC C,D C A B,C B A,B B,C B,C B,C	Buttonbush Sweet pepperbush Winterberry Mountain laurel Bayberry Pink azalea Swamp rose Silky willow American elderberry Steeplebush Silky dogwood Gray dogwood	2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 12"- 24" 2'-3'	Y Y Y Y N N Y N N N N	0 11 0 0 0 13 7 14 30	34 8 20 13	61 8 31 13 17 4 13 10 19 30 27 27
Aronia arbutifolia Cephalanthus occidentalis Clethra alnifolia Ilex verticillata Kalmia latifolia Morella pensylvanica Rhodedendron nudiflorum Rosa palustris Salix sericea Sambucus canadensis Spiraea tomentosa Swida amomum Swida racemosum Vaccinium corymbosum	Ar-ar Ce-oc Cl- al II-ve Ka-la Mo-pe Rh-nu Ro-pa Sa-se Sa-ca Sp-to Sw-am Sw-ra Va-co	AB B,C BCD C,D C A B,C B A,B B,C B,C B,C B,C B,C	Buttonbush Sweet pepperbush Winterberry Mountain laurel Bayberry Pink azalea Swamp rose Silky willow American elderberry Steeplebush Silky dogwood Gray dogwood Highbush blueberry	2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3'	Y Y Y Y N N Y N N N N	0 11 0 0 0 13 7 14 30	34 8 20 13 17 4 0 3 5 0	61 8 31 13 17 4 13 10 19 30 27 27
Aronia arbutifolia Cephalanthus occidentalis Clethra alnifolia Ilex verticillata Kalmia latifolia Morella pensylvanica Rhodedendron nudiflorum Rosa palustris Salix sericea Sambucus canadensis Spiraea tomentosa Swida amomum Swida racemosum	Ar-ar Ce-oc Cl- al Il-ve Ka-la Mo-pe Rh-nu Ro-pa Sa-se Sa-ca Sp-to Sw-am Sw-ra	AB B,C ABC C,D C A B,C B A,B B,C B,C B,C	Buttonbush Sweet pepperbush Winterberry Mountain laurel Bayberry Pink azalea Swamp rose Silky willow American elderberry Steeplebush Silky dogwood Gray dogwood	2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 2'-3' 12"- 24" 2'-3'	Y Y Y Y N N Y N N N N	0 11 0 0 0 13 7 14 30	34 8 20 13 17 4 0 3 5 0	61 8 31 13 17 4 13 10 19 30 27 27

PLANTING NOTES AND DETAILS

03-17-2021 11 OF 14

		SI	TE PLAN	OF DEVI	ELOPMEN	IT
		THI	E VILLA	GE AT N	VAEK RO	DAD
		29:	1 & 293 TA	LCOTTV	ILLE ROA	MD
		2	26, 32, 37, 3	88 & 46 NA	EK ROAI	
			VERNON	N, CONNE	ECTICUT	
INFORMATION DEPICTED ON THIS	REVISIONS	GARDI	NER & PE	TERSON A	SSOCIATES	, LLC
SHEET WAS PROVIDED BY:	05/21/2021			ARTFORD TURNE CONNEC		
REMA ECOLOGICAL SERVICES,LLC.			PROFESSIONAL E	•	LAND SURVEYORS	5
164 EAST CENTER ST, SUITE 2		BY	SCALE	DATE	SHEET NO.	MAP NO.
MANCHESTER, CT 06040		l		l	l	l







CT. DOT #3

CRUSHED STONE

GEOTEXTILE

STONE CHECK DAM DETAIL

. KEY STONE INTO THE DITCH BANKS

FROM FLANKING THE CHECK DAM.

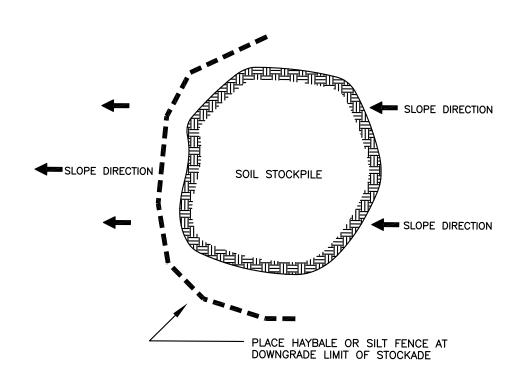
CT. DOT #3

CRUSHED STONE

AND EXTEND INTO THE ABUTMENTS A

MINIMUM OF 18" TO PREVENT FLOW

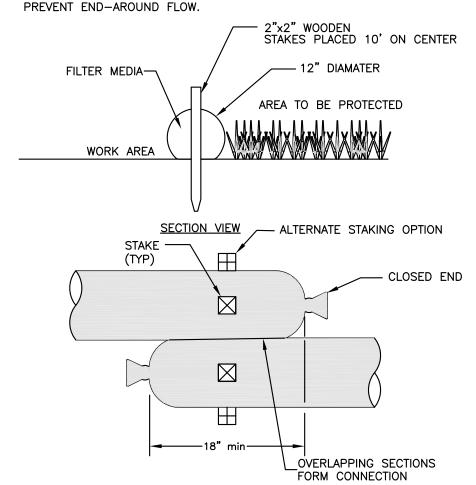




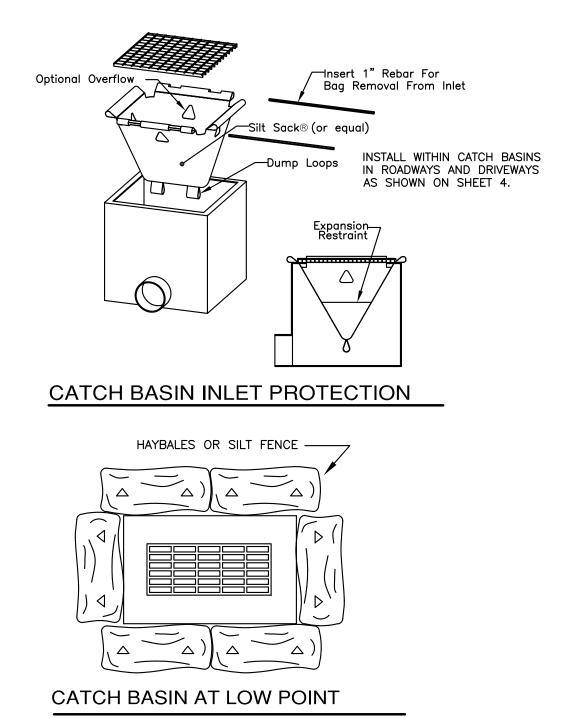
STOCKPILE EROSION PROTECTION DETAIL

CLEAR THE INSTALLATION AREA OF ANY DEBRIS, TREES, ROCKS OR LARGE OBSTRUCTIONS. SOCKS ARE DESIGNED TO COME IN CONTACT WITH THE SOIL, SO ANY STUMPS OR POTENTIAL OBSTRUCTIONS SHOULD BE REMOVED.

- 2. DIG A SHALLOW TRENCH IN THE LOCATION WHERE THE LOGS NEED TO BE
- 3. PLACE THE LOGS IN THE TRENCH AND BACKFILL WITH SOIL SO THAT THE LOGS ARE TIGHTLY PACKED AGAINST THE SLOPE. ADJACENT LOGS SHOULD BE EITHER POSITIONED SO THAT THE ENDS FIT TIGHTLY AGAINST EACH OTHER AND ENDS SHOULD BE JOINED/SECURED TOGETHER WITH COIR TWINE OR OTHER SUITABLE TIES OR OVERLAPPED AS DESCRIBED BELOW.
- 4. FILTER MEDIA TO BE A COARSE COMPOSTED MATERIAL SPECIFICALLY DESIGNED FOR REMOVAL OF SOLIDS AND SOLUBLE POLLUTANTS FROM STORMWATER
- 5. 10 L.F. ON EACH END SHALL BE PLACE AT A 30° ANGLE UP-SLOPE TO



COIR LOG SEDIMENT BARRIER DETAIL



Maintenance Schedule Maintenance Maintenance Item Frequency Remove inspection port caps to verify that runoff has infiltrated & leaves/debris are not collecting in system. Check sediment depth and vacuum when 6 of sediment has accumulated. Catch Basins Inspect grates for litter and debris and remove as needed Remove sediment in sumps immediately after spring snowmelt Grass Swale Maintain grass at a height of 4 to 6 inches during the growing season Semi-Annuall Remove debris/sediment in swale Check for evidence of water overflowing Semi-Annually Maintain Stability of embankment Semi-Annuall Sediment Forebay Mowing as needed Every 5-years Remove sediment every 5 years or before sediment is within one-foot of the top of the Stormwater Basin Remove invasive vegetation Inspect embankment and inlet/outlet Monitor sediment accumulation. Repair eroded areas Clean/remove sediment and debris Monitor sediment accumulation and remove when pool volume is reduced significantly Mow side slopes

TEST PIT DATA: WITNESSED BY E. PETERSON, P.E. GARDNER & PETERSON ASSOCIATES, LLC 0-9" TOPSOIL 9-14" COARSE LOAMY SAND 14-108" COARSE SAND W/ COBBLES TP 305: 0-13" TOPSOIL 13-22" Y.BR. FINE SANDY LOAM 22-72" R.BR. TILL, COMPACT MOTTLING @ 16" SEEPAGE @ 68" 0-18" TOPSOIL/FILL 18-30" Y.BR. FINE SANDY LOAM 30-72" R.BR. TILL MOTTLING @ 18" SEEPAGE @ 40" 0-38" SAND & GRAVEL FILL 38-44" BURIED TOPSOIL 44-138" SAND & GRAVEL SHGW @ 108" PERM @ 58" RATE: 190 FT/DAY 0-11" TOPSOIL 11-28" BR. FINE SANDY LOAM 28-84" FIRM R RR SILT 84-144" MED. SAND W/ COBBLES, SOME SILT GW @ 126" PERM #1 @ 115' RATE: 70 FT/DAY STANDPIPE SET: DRY ON 06/16/2020 0-11" TOPSOIL 11-102" BR. SAND & GRAVEL 192-144" COMPACT FINE SAND W/ SILT PERM #2 @ 50" RATE: 61 FT/DAY 0-16" TOPSOIL 16-32" FINE SANDY LOAM 32-144" SAND & GRAVEL PERM #3 @ 36" RATE: 41 FT/DAY TOPSOIL 7-15" Y.BR. FINE SANDY LOAM 15-43" R.BR LOAMY SAND W/ COBBLES, SOMEWHAT FIRM LEDGE @ 43" LEDGE @ 24" TP 314A: 0-36" FRACTURED ROCK TP 315: LEDGE @ 36" (WEST) LEDGE @ 30" (EAST) 0-4" TOPSOIL 4-33" BR. FINE SANDY LOAM W/ COBBLES 33-54" BR. COMPACT TILL W/ FLAT BOULDERS 54-78" SAND & GRAVEL W/ BOULDERS LEDGE @ 78" PERM #12 @ 23" RATE: 0.4 FT/DAY

0-10" TOPSOIL 10-58" BONEY BR. FINE SANDY LOAM

LEDGE @ 58" 0-8" TOPSOIL

8-30" BR. FINE SANDY LOAM W/ COBBLES 30-78" R.BR. COMPACT TILL W/ FLAT BOULDERS LEDGE @ 78" TP 318:

0-8" TOPSOIL 8-36" Y.BR. FINE SANDY LOAM W/ COBBLES, FIRM 36-60" R.BR. TILL W/ COBBLES 60-80" DECOMPOSED LEDGE

0-9" TOPSOIL Y.BR. LOAMY SAND W/ COBBLES 24-60" SAND & GRAVEL 60-132" COARSE SAND

PERM #70 @ 36" RATE: 370 FT/DAY

LEDGE @ 32"

0-12" TOPSOIL 12-20" Y.BR. FINE SANDY LOAM 20-116" SAND & GRAVEL SEEPAGE @ 116"

08/16/2020 TOPSOIL

0-6" 6-28" Y.BR. FINE SANDY LOAM 28-36" MED. SAND W/ COBBLES PERM #1 @ 32" RATE: 12 FT/DAY GENERAL EROSION AND SEDIMENT CONTROL NOTES

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED SEDIMENT

TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED

IN THE AMOUNT NECESSARY TO COMPLETE THE FINISHED GRADING OF ALL EXPOSED

AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO

ALL FILLS SHALL BE COMPACTED AS REQUIRED TO MINIMIZE EROSION, SLIPPAGE, AND SETTLEMENT. FILL INTENDED TO SUPPORT STRUCTURES, DRAINAGE, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH THE APPROPRIATE STATE AND/OR

REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.

FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, LARGE ROCKS, LOGS, STUMPS, BUILDING MATERIAL, COMPRESSIBLE MATERIAL, AND OTHER MATERIALS WHICH MAY INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

FROZEN MATERIAL OR SOFT MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

FILL SHALL NOT BE PLACED ON A FROZEN FOUNDATION.

ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF

SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH SOUND CONSTRUCTION PRACTICE.

ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISH GRADING. IF FINISH GRADING IS TO BE DELAYED FOR MORE THAN 30 DAYS AFTER DISTURBANCE IS COMPLETE, TEMPORARY SOIL STABILIZATION MEASURES SHALL BE APPLIED. AREAS LEFT OVER 30 DAYS SHALL BE CONSIDERED "LONG TERM" AND SHALL RECEIVE TEMPORARY SEEDING WITHIN THE FIRST 15 DAYS

SITE IS TO BE GRADED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCHING, AND MAINTENANCE UNLESS OTHERWISE SPECIFIED IN

CUT AND FILL SLOPES SHALL NOT BE STEEPER THAN 2:1. TOPSOIL SHALL BE SPREAD TO A MINIMUM DEPTH OF 4". ADDITIONAL TOPSOIL MAY BE REQUIRED TO MEET MINIMUM

DEPTHS. NO TOPSOIL SHALL BE REMOVED FROM THIS SITE. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER, OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4" TO 1/2" INCH. HYDROSEEDING WHICH IS MULCHED MAY BE LEFT ON THE

WHERE FEASIBLE, EXCEPT WHERE EITHER A CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING WITH A ROLLER OR

FERTILIZER AND LIME ARE TO BE WORKED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISC OPERATION SHOULD BE ALONG THE

REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, TREE ROOTS, PIECES OF CONCRETE, OR OTHER UNSUITABLE

INSPECT SEEDBED BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED BEFORE SEEDING, THEN FIRMED AS DESCRIBED ABOVE.

WHERE GRASSES PREDOMINATE, FERTILIZE ACCORDING TO SOIL ANALYSIS, OR SPREAD 300 POUNDS OF 10-10-10 OR EQUIVALENT PER ACRE (7.5 POUNDS PER 1000 S.F.).

20. CALCIUM CHLORIDE WILL BE AVAILABLE FOR DUST CONTROL ON GRAVEL TRAVEL SURFACES.

TURF MANAGEMENT PLAN

A composite soil sample from the subject property will be collected and delivered to a University of Connecticut Cooperative Extension office for testing of soil nutrient levels (i.e., pH, nitrogen, phosphorus, calcium, magnesium, potassium) prior to a fertilizer application. The Extension office will recommend a fertilizer application rate based upon these test results. The actual fertilizer application rate will follow this ecommendation. This will ensure against an excessive fertilizer application, which could lead to chemical leaching or export.

<u>Slow-Release Fertilizers</u> Slow-release fertilizers will be applied to lawns, planted trees and shrubs. These can include, but are not limited to, organic-based fertilizers. A variety of commercial slow-release nitrogen fertilizer products are available (e.g., Milorganite, isobutylidene diurea, coated ureas, etc.). Advantages of slow-release fertilizers include the supply of a steady nitrogen source, and reduced nitrogen leaching. By combining small amounts of soluble nitrogen sources with slow release nitrogen products, nitrogen availability can be extended without a threat of leaching.

Fertilizer Application Schedule Fertilizer will be applied three times annually to the subject property: early to late May (after the threat of cool, wet weather has passed), late August to early September, and mid—September to mid—October. If the soil test indicates a need for lime, it will be applied at the last fertilization date.

Integrated Pest Management (IPM)
IPM is an integrated, preventative approach to maintaining healthy turf and landscape plants. IPM recognizes that, although chemicals are an important component of a turf management plan, other strategies are available to maintain a healthy lawn. A central premise of IPM is to treat pest problems as they arise on an as-needed basis only, using a variety of biological (e.g., natural predators), chemical and

cultural (e.g., disease-resistant seed) practices.

RISER PIPE

PREFABRICATED HDPE.
TEE CONNECTION 3/8" STONE

MORTAR ALL AROUND

CONCRETE BLOCK PLATFORM

TEMPORARY STAND PIPE OUTLET SHALL NOT BE REMOVED UNTIL ALL SITE

IMPROVEMENTS WITHIN THE DRAINAGE AREA TO THE CORRESPONDING BASIN

ARE CONSTRUCTED AND THE SITE IS STABILIZED. INSPECT STRUCTURE

TEMPORARY STANDPIPE OUTLET STRUCTURE

BYWEEKLY AND MAINTAIN AS NEEDED

PERMANENT OUTLET STRUCTURE

FOR SEDIMENT BASIN

OUTLET PIPES 1

(16) 3/8" DIA. HOLES ALL AROUND PIPE

EVERY 8" IN HEIGHT

TOP ELEVATION TO EQUAL TOP BERM -ELEVATION

To be successful, IPM requires periodic monitoring by an experienced practitioner to detect pest problems at an early stage and develop an effective, environmentally responsible action plan. It is recommended that the contractor that is hired to maintain the grounds have training and experience in the practice of IPM.

- STONE TO BOTTOM OF BELL

WRAP SIDES OF RISER PIPE DUPONT TYPAR 3341

BOTTOM OF BASIN

05/21/2021

CONSTRUCTION SCHEDULE & EROSION & SEDIMENT CONTROL CHECKLIST

PROJECT NAME: THE VILLAGE A NAEK ROAD

LOCATION: NAEK ROAD - VERNON, CT

PROJECT DESCRIPTION: MULTI-FAMILY HOUSING DEVELOPMENT PARCEL AREA: 21.6 AC.

RESPONSIBLE PERSONNEL: R.HAMID, NAEK CONSTRUCTION, 27 NAEK ROAD, VERNON, CT 860-875-1895

WORK DESCRIPTION	EROSION & SEDIMENT CONTROL MEASURES	DATE INSTALLED	INITIALS
CLEAR TREES AND BRUSH	INSTALL ANTI-TRACKING PAD		
REMOVE STUMPS	INSTALL SILT FENCE BARRIERS DOWNGRADE OF CONSTRUCTION ACTIVITY AS SHOWN		
	INSTALL INLET PROTECTION IN EXISTING CATCH BASINS		
EXCAVATE SEDIMENT BASINS AND ROUGH GRADE SITE	PROTECT INFILTRATION GALLEY AREAS FROM DISTURBANCE AND COMPACTION		
	PROTECT STOCKPILE AREAS WITH SILT FENCE		
	INSTALL EROSION BLANKET ON SLOPES STEEPER THAN 3:1		
	INSPECT AND MAINTAIN SEDIMENT BARRIERS WEEKLY AND AFTER RAIN EVENTS OVER 0.5—INCH.		
EXCAVATE FOR BUILDING FOUNDATIONS			
INSTALL SEWER, DRAINAGE AND UTILITIES	INSTALL HAYBALES AROUND NEW CATCH BASIN INLETS ONCE INSTALLED		
INSTALL PAVEMENT BINDER COAT IN AREAS WHERE FOUNDATIONS AND UTILITIES ARE COMPLETE	TOPSOIL, SEED AND MULCH AREA ADJACENT TO EACH BUILDING AS IT IS COMPLETED		
FINAL GRADE AND FINAL PAVE	TOPSOIL, SEED AND MULCH REMAINDER OF SITE		
	REMOVE SEDIMENT FROM DRAINAGE STRUCTURES AND INSTALL INFILTRATION TRENCHES WITHIN BASIN.		
	REMOVE EROSION CONTROLS WHEN SITE IS STABILIZED		

DATE OF CONSTRUCTION START OCTOBER 1, 2021

DATE OF CONSTRUCTION COMPLETION SEPTEMBER 30, 2023

EROSION AND SEDIMENT CONTROL PROCEDURES SHALL ESSENTIALLY BE IN ACCORDANCE WITH THESE PLANS, AS REQUIRED BY TOWN REGULATIONS, AND THE MANUAL, "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" FOR CONNECTICUT, BY THE COUNCIL ON SOIL AND WATER CONSERVATION, 1985, REVISED TO 2002.

PROJECT NARRATIVE

The purpose of this project is to construct 18 new multi-family buildings and the driveway, parking and utilities to service the buildings. The proposed buildings are to be serviced by public water and sanitary sewer. A house currently exists on the property which will be removed and the existing curb cut along Talcottville Road will be closed. Access to the site will be from new curb cuts off of Naek Road.

Construction activities shall commence with the installation of the construction entrances Sedimentation barriers shall be installed prior to stumping. The infiltration galley areas shall be protected from construction activities and compaction prior to rough grading. Inspect condition of sedimentation barriers prior to rough grading.

Rough grading shall commence with the excavation of the sediment basins as depicted. Installation of the drainage structures, and piping shall proceed as the construction schedule allows. Leave grade 6" below catch basin tops to prevent silt laden runoff from entering the drainage system. The middle of each building shall be rough graded to shed runoff back towards the center of the site drives.

Completion of storm drainage and utility installation is to be followed by placing processed gravel, and final grading of the paved areas. The first coat of all paved site drives shall be installed once all foundations have been poured. The installatoin of the infiltration trenches wintin the stormwater basins shall be completed once the site is paved and a vegetative growth on disturbed areas has been established. All erosion control measures shall be maintained and upgraded as needed until stable vegetative growth has been established. At all times erosion of exposed and stockpiled materials shall be prevented using measures specified in these plans. Once the site is stabilized, sediment within the

Proposed soil erosion and sediment control measures were designed using criteria set forth by the "Connecticut Guidelines for Soil Erosion and Sediment Control", revised to

basin will be removed and the sediment will be seeded as depicted on these plans.

TEMPORARY SEEDING SCHEDULE:

SEEDING DATES SPECIES LBS/ACRE LBS/1000SF ANNUAL RYEGRASS 3/1-6/15, 8/1-10/15 4/15-7/1, 8/15-10/15 WINTER RYE SUDANGRASS 5/15-8/1

TEMPORARY SEEDING IS NOT LIMITED TO THE SPECIES SHOWN. OTHER SPECIES RECOMMENDED BY THE SCS OR AS LIMITED BY SITE CONDITIONS MAY BE USED.

STRAW MULCH IS TO BE APPLIED TO SEEDED AREA AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE, 70 TO 90 LBS. PER 1000 SQ. FT.

FINAL SEEDING SCHEDULE:

PROVIDE 4 INCHES OF TOPSOIL MINIMUM, FREE OF ROOTS, LARGE STONES, AND OTHER OBJECTS.

SPECIES LBS/ACRE LBS/1000SF SEEDING DATES KENTUCKY BLUEGRASS 4/1-6/15, 8/15-10/1 CREEPING RED FESCUE 4/1-6/15, 8/15-10/1 PERENNIAL RYEGRASS

4/1-6/15, 8/15-10/1

EROSION & SEDIMENT CONTROL DETAILS

THE VILLAGE AT NAEK ROAD 291 & 293 TALCOTTVILLE ROAD 26, 32, 37, 38 & 46 NAEK ROAD VERNON, CONNECTICUT

GARDNER & PETERSON ASSOCIATES, LLC 178 HARTFORD TURNPIKE

TOLLAND, CONNECTICUT

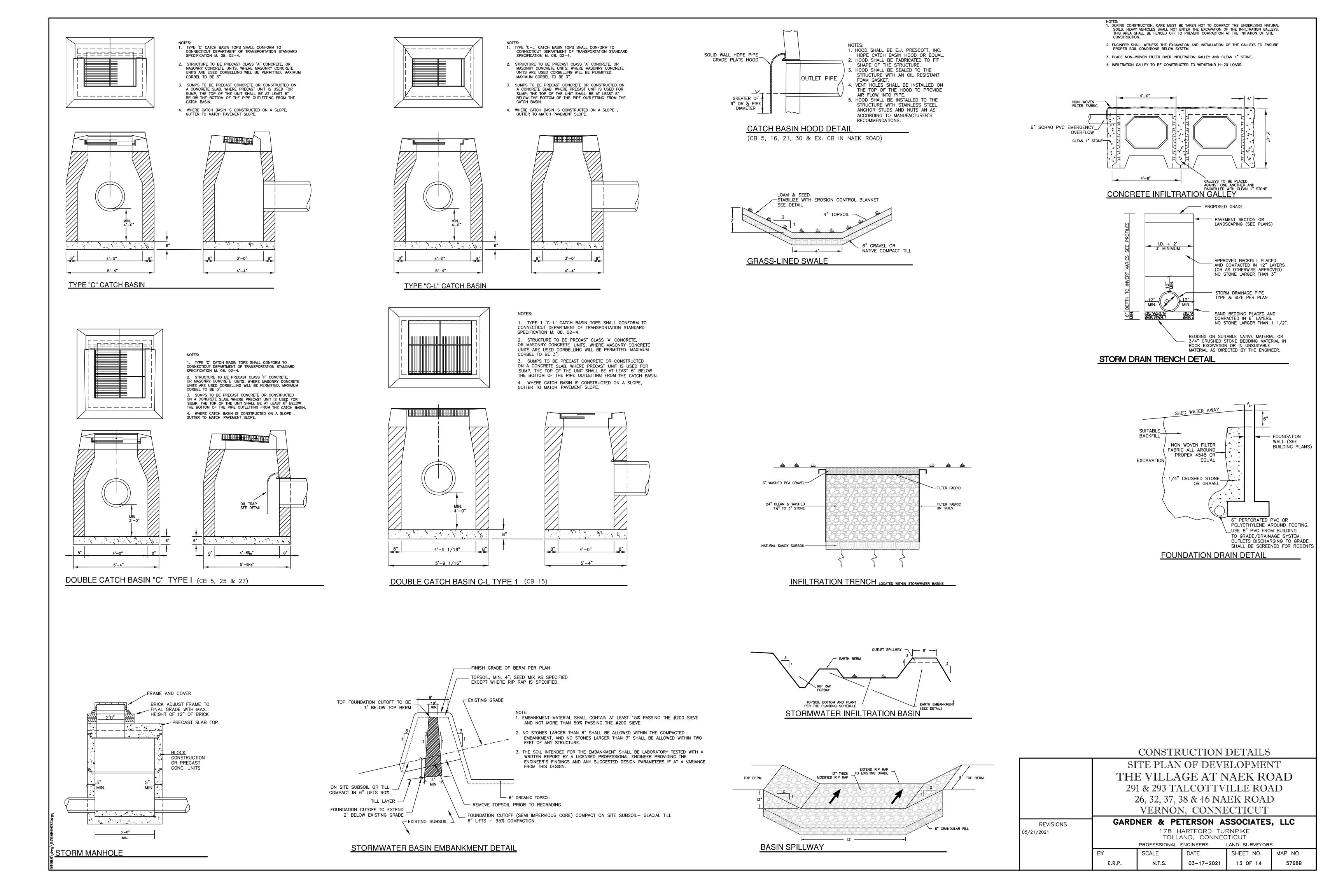
DATE SHEET NO. MAP NO. 03-17-2021 12 OF 14 5768B

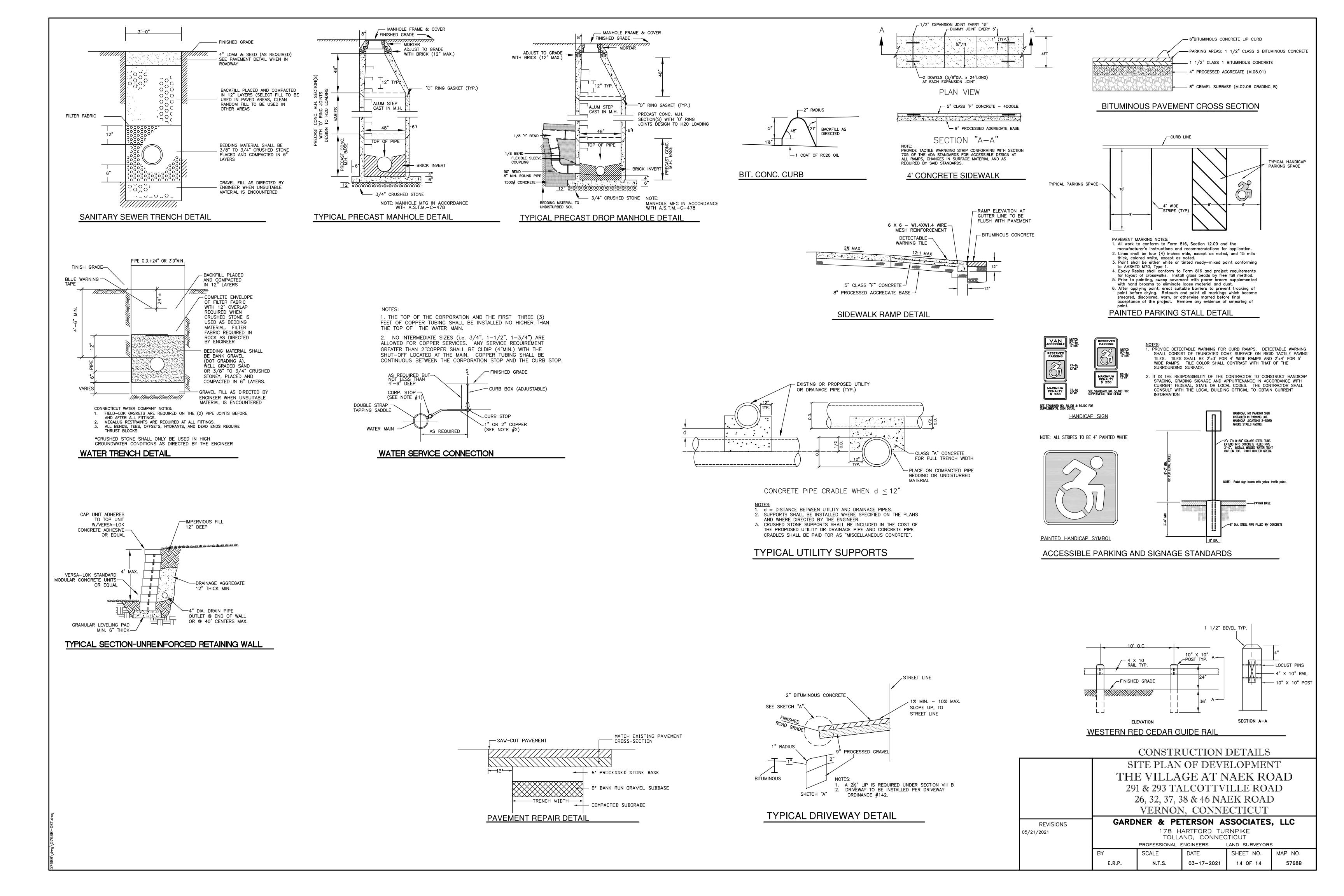
SITE PLAN OF DEVELOPMENT

REVISIONS

PROFESSIONAL ENGINEERS

LAND SURVEYORS





STAFF COMMENTS



TOWN OF VERNON

55 WEST MAIN STREET, VERNON, CT 06066 (860) 870-3640 gmcgregor@vernon-ct.gov

MEMORANDUM

TO: IWC Members

FROM: George K. McGregor, AICP

SUBJECT: IWC 2021-04, Village at Naek

DATE: June 22, 2021

On April 20, 2021 the Vernon Inland Wetlands Commission continued the public hearing on the above referenced application. The Applicant has submitted revisions based on Staff comments and is included in the packet. Follow up review comments from the Town Engineer and the Wetlands Agent are also included.

The Applicant's representatives have provided an extension to the June 22, 2021.

Please refer to the packet for the April 20, 2021 meeting or these links for all previously submitted application information:

https://www.vernon-ct.gov/fs/resource-manager/view/f81227c1-c3d1-4704-b7e0-35f98b354ff2

https://www.vernon-ct.gov/fs/resource-manager/view/2d32b9c2-ff42-4748-aecb-8ce95511a953

GKM

 From:
 Smith, David

 To:
 McGregor, George

 Cc:
 Perry, Craig

 Subject:
 Village at Naek Road

Date: Thursday, June 3, 2021 3:41:36 PM

George -

I had a chance to review the 5/21/21 revised plan set for this project and it appears that the applicant and his team have addressed the concerns I raised in the preliminary review. While there are a few drafting issues that can be tuned up at some future time, I am pleased with the accommodations that were included to increase the distance between the active construction areas and the Wetlands; as well as the detail and density of the plantings along the retention and recharge basins. As you know, I will be unable to attend the next IWC meeting, but I do support this latest version of the plans.

Thank you

David A. Smith, PE LS

Vernon Town Engineer 55 West Main Street Vernon, CT. 06066 860-870-3663 dsmith@vernon-ct.gov From: Perry, Craig

To: <u>McGregor, George</u>; <u>Smith, David</u>

Subject: RE: Naek Village

Date: Monday, June 14, 2021 12:27:09 PM

George,

I reviewed the latest revision dated 5-21-21 and found the latest revisions that were made due to staff comments an acceptable improvement.

The only comment I have now is the existing drainage (catch basins and associated piping) that is located to the west of the Naek cul-de-sac, is not shown on the plans.

Thank you, Craig Perry

From: McGregor, George

Sent: Tuesday, May 25, 2021 4:07 PM

To: Perry, Craig <cperry@vernon-ct.gov>; Smith, David <dsmith@vernon-ct.gov>

Subject: Naek Village

Eric Peterson drop revised plans off today.

Please take a look at your earliest opportunity.

I will have the complete file on my side desk.

George

George K. McGregor, AICP Town Planner Town of Vernon 55 West Main Street Vernon, CT. 06066-3291 Phone: (860) 870-3640

Phone: (860) 8/0-3640 Mobile: (860) 336-1846

WETLAND AGENT REPORT



TOWN OF VERNON

55 West Main St., VERNON, CT 06066 Tel: (860) 870-3638 Fax: (860) 870-3683 E-Mail: cperry@vernon-ct.gov

To: Wetlands Commission

From: Wetlands Enforcement Officer Subject: **IWC Project Status Report**

DATE: 2021 – June

Note: Red letters indicate a change from the last report.

IWC-2021-03 (152 West St – Repair Drainage Area on Mary Lane).

• Driveway installed.

IWC-2021-02 (7 Beechwood Rd – New residential home).

• No construction activity at this time.

IWC-2021-01 (58 Wildwood Rd – New residential home).

• No construction activity at this time.

IWC-2020-08 (6 Hartford Turnpike – Suburban Subaru).

• No construction activity at this time.

IWC-2020-06 (CT Golfland).

• No erosion issues at this time.

IWC-2020-05 (Dart Hill Rd Bridge Replacement).

• Construction scheduled for the spring 2022.

IWC-2020-04 (Windermere Rd. – Athletic Fields).

• No construction activity at this time.

IWC-2020-03 (Main St. Bridge Replacement).

• Demolition of the existing deck was done.

IWC-2019-05 (Chilstone, LLC 624 Dart Hill Rd – 4 unit apartment bldg.).

- Still needs P & Z approval.
- Project is on hold.

IWC-2019-04 (652 Dart Hill Rd – 15 lot development).

- Erosion control appears to be working well.
- Construction is on-going with no issues.

IWC-2019-02 WPCA (Wetlands Permit for site upgrades).

• Construction continues.

IWC-2017-05 (#133 Tunnel Road)

• Property has been sold.

IWC-2017-03 (Hyde Park LLC – #14 Hyde Ave - Apartments)

• No construction activity at this time.

IWC-2016-05 (129/145 Talcottville Rd – Storage Facility behind Wendy's)

• Project is on hold.

IWC-2015-05 (Kenneth Kaplan – Drainage System – 200 West Main St.)

- No construction activity at this time.
- Expires on Oct. 9, 2025

IWC-2015-02 (Kenneth Kaplan – Parking Area – 200 West Main St.)

• No construction activity at this time.

• Expires on June 9, 2025

IWC-2013-05 (133 Washington St. – House surrounded by wetlands)

- No construction activity at this time.
- Expires on 3-17-2026 with total extension applied.

IWC-2009-07 (Hotel at 53 Hartford Turnpike)

- No construction at this time.
- Expiration date is 11/25/2023 with total extension applied

IWC-2008-09 (380 Talcottville Road / Phase 2 The Shoppes at Vernon Valley)

- No construction at this time
- Expiration date is 7/28/2022 with total extension applied.

IWC-2005-26 (Bolton Branch Road – Laurel Woods Development)

- Tree clearing continues.
- The new expiration date is 9/4/2022 with total extension applied.

IWC-2003-05 (117 Reservoir Rd. – Home Depot)

- There is no construction activity at this time.
- Expiration date is 3/27/2022 with total extension applied.

Other Information of Importance:

Notice of Violation – Juliano Pools Site restoration work continues.

Wetland Agent Report:

Approval for;