

March 25, 2024

Mr. Christopher Carthy, Chairman  
Members of the Town of North Castle Planning Board  
15 Bedford Road  
Armonk, NY 10504

Re: Keith Rosenthal  
10 Creemer Road,  
Section 108.02, Block 2, Lot 60

Dear Chairman Carthy and Members of the Planning Board;

We are in receipt of the memorandum from David Sessions, KSCJ to the Town of North Castle Conservation Board, for the Rosenthal project. Please find attached a copy of the Revised Plan Set in addition to a comment-by-comment response to each of the review items in your comment letters.

**KSCJ Memorandum dated March 15, 2024:**

1. *To ensure plantings associated with any required wetland mitigation plan will thrive, the proposed, "Invasive Species Monitoring and Control Program" indicated on the submitted plan entitled "Wetland Enhancement/Restoration Plan" (Sheet 1 of 1) shall continue for a duration of five (5) years instead of the proposed three (3) years, post-construction. Proposed language shall be revised.*

**Response: The referenced plan has been updated to show a five year duration for maintenance and monitoring.**

2. *The planting schedule and planting plan shall be further coordinated:*
  - a. *Please indicate on the submitted plan entitled "Wetland Enhancement/Restoration Plan" (Sheet 1 of 1) locations of proposed seed mix and if the rain garden will include trees, shrubs, and herbaceous plant material.*

**Response: As shown on the revised plan, the rain garden will include shrubs and herbaceous plantings. Three trees around the perimeter of the rain garden were shown on the previous plan and remain. The plan also shows a planted fringe along the pond edge, which will filter and slow runoff from the maintained lawn area and provide additional habitat so that any additional "no-mow" area is not necessary.**



- b. *A cost estimate for all proposed plants quantifying the cost of each plant from nursery to installation with a one (1) year guarantee shall be provided for review.*

**Response: The cost estimate for the purchase and installation of the proposed plantings is \$6,300, which includes the wholesale purchase of the plant materials and a 2.5 markup for delivery and installation.**

3. *The applicant will discharge from the rain garden to the adjacent freshwater wetlands, immediately downgradient of the rain garden. As previously noted in the memorandum to the North Castle Planning Board, dated October 5, 2023, the applicant should show a diffuser, level spreader, etc., required to dissipate energy and disperse flow at the discharge point. The means chosen to dissipate energy and disperse flow shall be shown on the plan and a typical detail shall also be provided on the plan.*

**Response: A vegetated level spreader has been added following the stone dissipater outlet from the rain garden outlet. A detail of both are provided on the detail sheet.**

4. *As previously noted in the memorandum to the North Castle Planning Board, dated October 5, 2023, the applicant shall include a temporary sediment pond, more specific construction fencing, and additional information regarding soil stabilization on their plans. Also noted in the October 5, 2023 memorandum are the following comments:*

- a. *The applicant has previously prepared an erosion and sediment control plan for the project. The plan should include construction fencing along the disturbance limits in the vicinity of the proposed spa addition and the proposed rain garden, both located adjacent to or within the wetland buffer. Please re-submit the erosion and sediment control plan with this information provided.*

**Response: Previously a combination of construction and silt fence were shown. We are now showing them as separate.**

- b. *Areas adjacent to the spa and the rain garden shall only be disturbed during the growing season when restoration of the disturbances can be immediately revegetated. Disturbances to both areas should have a time limit while no vegetation is present, please provide a time limit on plans as such. The applicant shall also detail the means of stabilization for the rain garden embankment, please provide additional details as such.*

**Response: Please see note 6 under the General Erosion Control Notes. Erosion blankets have been added to stabilize the rain garden embankment as well as slopes adjacent to the addition and spa. A detail has been provided.**

- c. *The most significant disturbance occurring on-site will be in the vicinity of the proposed building additions and motor court. This area will also be used for*



*construction staging. There is minimal protection to control erosion and protect downstream wetlands from siltation. The applicant shall examine a more specific stabilization plan for this area and provide a time limit for the proposed duration of exposed soils. When soil is exposed within this area, a temporary sediment pond shall be available to control runoff and discharge. The applicant shall include a temporary sediment pond on the plan and a typical detail shall also be provided.*

**Response: Please see note 6 in the General Erosion Control Notes addressing stabilization and time limitations. A temporary sediment basin has been added between the cottage and the spa where the natural flow of runoff occurs. A detail has also been provided.**

Enclosed please find:

- Mitigation Plan dated 10-01-21, last revised 3-25-24
- Rosenthal Site Plan set, dated 10-01-21, last revised 3-22-24

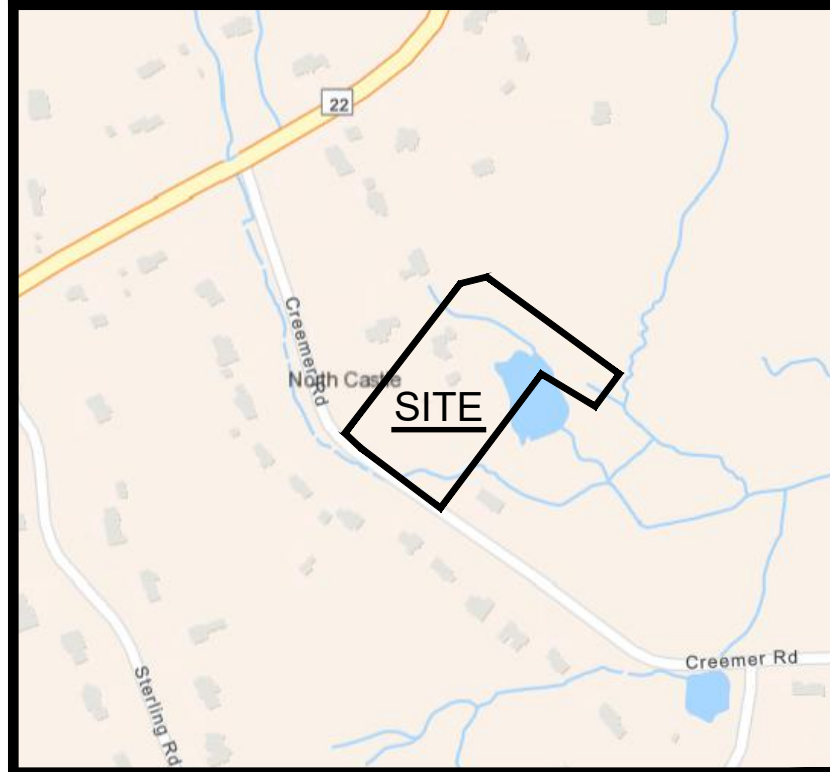
Sincerely,

Joseph C. Riina, P.E.

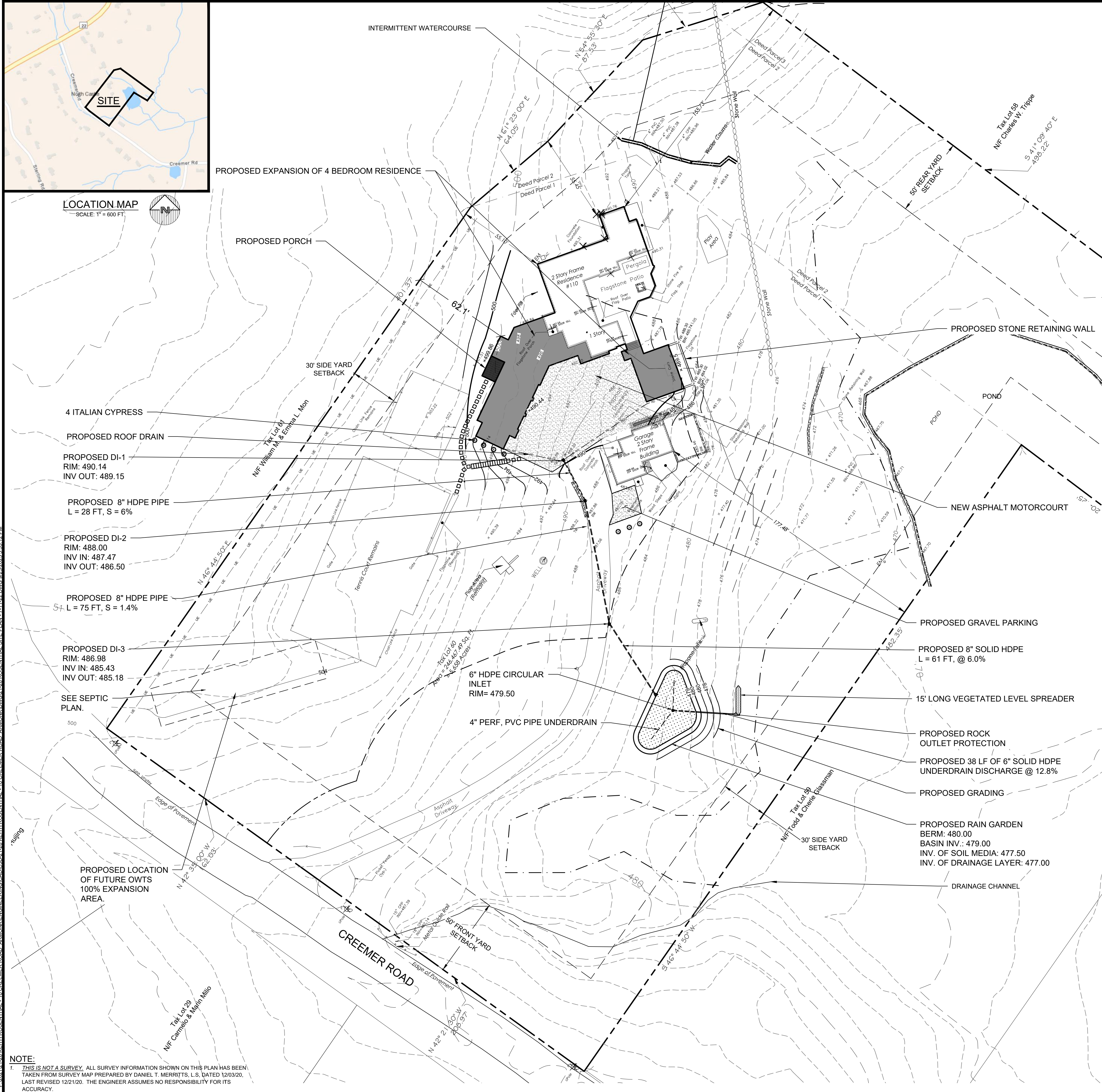
cc: Conservation Board  
A. Kaufman, AICP, Director of Planning  
K. Rosenthal

JCR / dmd / Enc. / sdc 21-28





LOCATION MAP  
SCALE: 1" = 600 FT.



**SITE DATA:**

OWNER / DEVELOPER: KEITH ROSENTHAL  
 STREET ADDRESS: 10 CREEMER ROAD, ARMONK, NY 10504  
 PROJECT LOCATION: 10 CREEMER ROAD, ARMONK, NY 10504  
 EXISTING TOWN ZONING: R-2A SINGLE FAMILY RESIDENTIAL  
 TOWN TAX MAP DATA: SECTION 108.02, BLOCK 2, LOT 60  
 SITE AREA: 5.66 ACRES (246,467 SF)  
 SEWAGE FACILITIES: ONSITE WASTEWATER TREATMENT SYSTEM  
 WATER FACILITIES: DRILLED WELL  
 FIRE DISTRICT: #2  
 SCHOOL DISTRICT: BYRAM HILLS  
 WATERSHED: LONG ISLAND SOUND

**ZONING SCHEDULE:**

ZONING DISTRICT: R-2A, ONE FAMILY RESIDENCE DISTRICT (2 acres)			
DIMENSIONAL REGULATIONS:	REQUIRED	PROVIDED	VARIANCE REQUIRED
<b>MINIMUM SIZE OF LOT:</b>			
MINIMUM LOT AREA:	2 AC.	5.66 AC.	NONE
MINIMUM LOT FRONTAGE:	150 FT.	371 FT.	NONE
MINIMUM LOT WIDTH:	150 FT.	370 FT.	NONE
MINIMUM LOT DEPTH:	150 FT.	482 FT.	NONE
MINIMUM DWELLING SIZE:	1,400 S.F.	7,657 S.F.	NONE
<b>MINIMUM YARD DIMENSIONS:</b>			
PRINCIPAL BUILDING:			
FRONT YARD SETBACK:	50 FT.	286 FT.	NONE
ONE SIDE YARD SETBACK:	30 FT.	62 FT.	NONE
COMBINED SIDE YARD SETBACK:	60 FT.	232 FT.	NONE
REAR YARD SETBACK:	50 FT.	156 FT.	NONE
<b>MAXIMUM BUILDING HEIGHT:</b>			
PRINCIPAL BUILDING - STORIES:	-	2 STORIES	NONE
PRINCIPAL BUILDING - FEET:	30 FEET	> 30 FEET	NONE
<b>MAXIMUM BUILDING COVERAGE:</b>			
PRINCIPAL BUILDING :	8% OF LOT AREA	3.1% OF LOT AREA	NONE

**LIST OF DRAWINGS:**

- SHEET 1 OF 6: SITE PLAN
- SHEET 2 OF 6: EXISTING CONDITIONS
- SHEET 3 OF 6: SEPTIC PLAN
- SHEET 4 OF 6: EROSION PLAN
- SHEET 5 OF 6: EROSION AND SMW DETAILS
- SHEET 6 OF 6: SEPTIC DETAILS

**WETLAND 100' ADJACENT AREA DISTURBANCE**

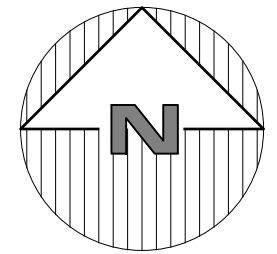
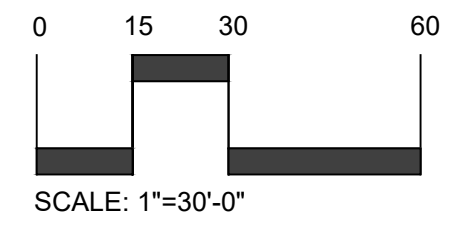
TYPE OF DISTURBANCE	AMOUNT OF DISTURBANCE	PROPOSED MITIGATION
RAIN GARDEN AND DRAINAGE	5,390 SF	SEE MITIGATION PLAN
SEPTIC TANK AND PIPING	660 SF	
ADDITION TO RESIDENCE	350 SF	

EARTHWORK: CUT 315 CY - FILL 755 CY = NET 440 FILL

**SITE PLAN NOTES:**

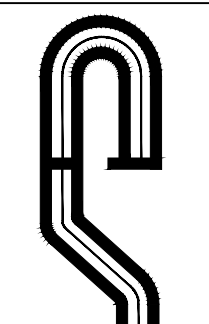
- THE WETLAND DELINEATION WAS DONE BY STEVE MARINO, PLS OF TIM MILLER ASSOCIATES IN APRIL 21, 2022 AND WAS SURVEYED BY T.C. MERRITTS LAND SURVEYORS MAY 5, 2022.
- THE WETLAND DELEGATION WAS CONFORMED BY SARA PAWLICZAK BIOLOGIST NYS DEC, DECEMBER 5, 2022.

APPROVED BY THE TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION DATED: \_\_\_\_\_ Date: \_\_\_\_\_  
 CHRISTOPHER CARTHY, CAHIRMAN,  
 TOWN OF NORTH CASTLE PLANNING BOARD  
 ENGINEERING PLANS REVIEWED FOR CONFORMANCE TO RESOLUTION: \_\_\_\_\_ Date: \_\_\_\_\_  
 JOSEPH M. CERMELE, PE  
 KELLARD SESSIONS CONSULTING  
 CONSULTING TOWN ENGINEERS



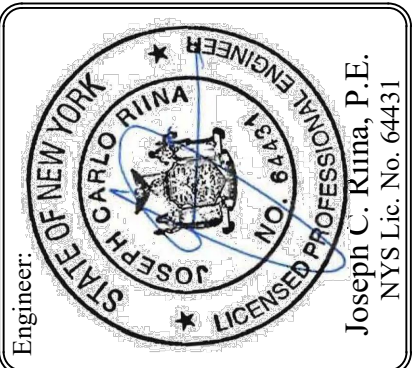
**NOTE:**  
 1. THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY DANIEL T. MERRITTS, L.S., DATED 12/03/20, LAST REVISED 12/21/20. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2)(f) OF THE NEW YORK STATE EDUCATION LAW.



PROJECT # 21-28

**Site Design Consultants**  
 Civil Engineers • Land Planners  
 251-J Underhill Avenue, Yorktown Heights, NY 10598  
 (914) 962-4488 - Fax: (914) 962-7386  
 www.sitedesignconsultants.com



Engineer: Joseph C. Rina, P.E.  
 NYS Lic. No. 64431

Revisions:

No.	Date	Comments
1	1-7-21	HD Department
2	2-14-22	HD Department
3	3-4-22	HD Department
4	3-22-22	Plan updates
5	6-3-22	Plan updates
6	7-11-22	Town Comments
7	10-28-22	Town Comments
8	1-12-23	HD Department
9	4-24-23	HD Department
10	9-28-23	TOWN COMMENTS

SCALE: 1" = 30'

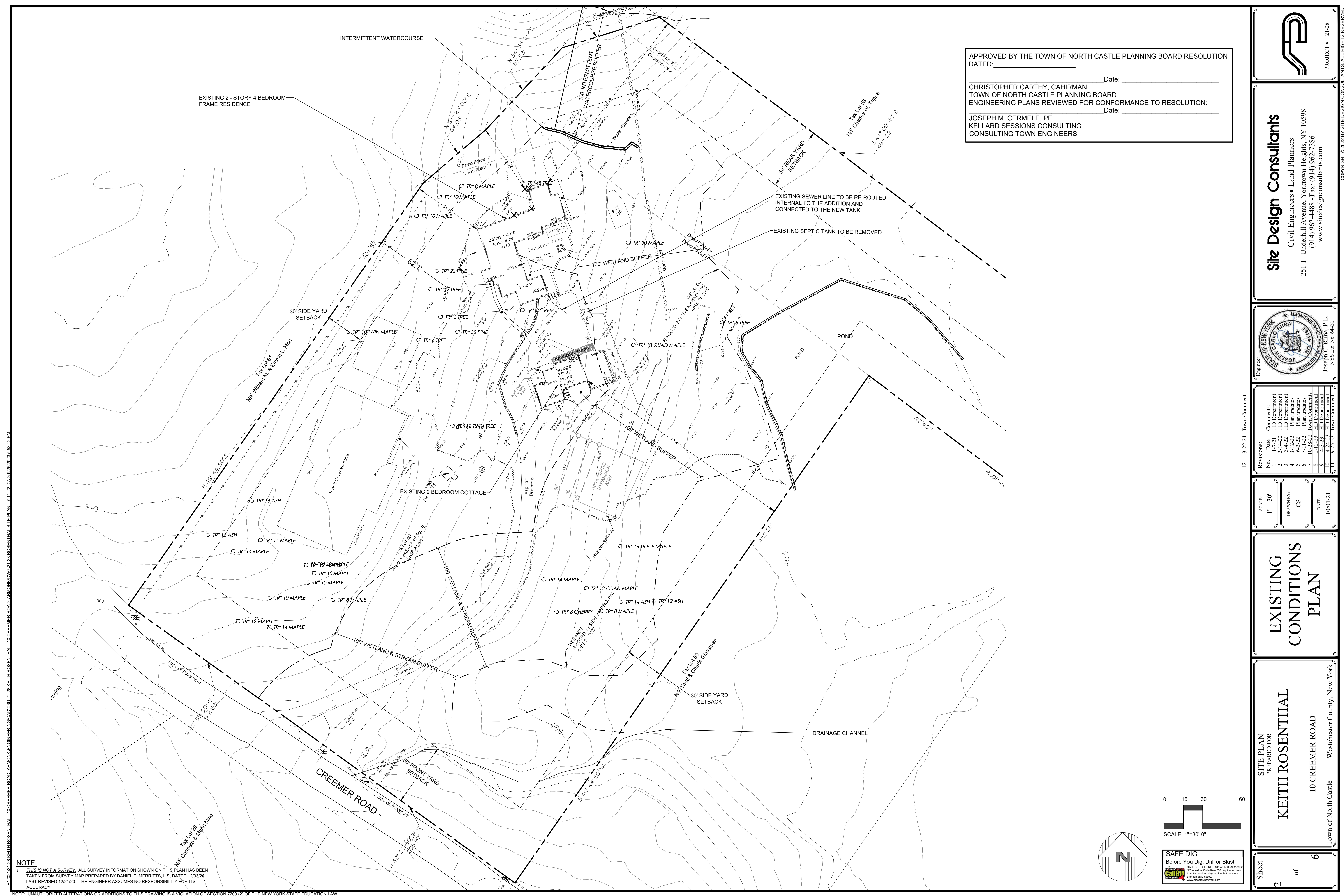
DRAWN BY: CS

DATE: 10/01/21

**SITE PLAN**

SITE PLAN PREPARED FOR  
**KEITH ROSENTHAL**  
 10 CREEMER ROAD  
 Town of North Castle, Westchester County, New York

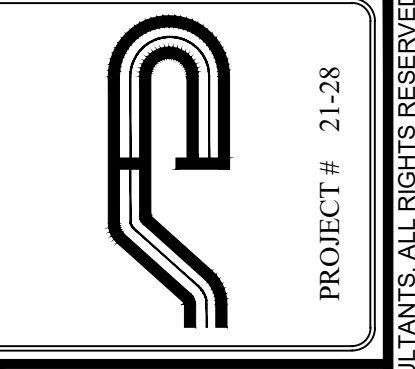
Sheet 1 of 6



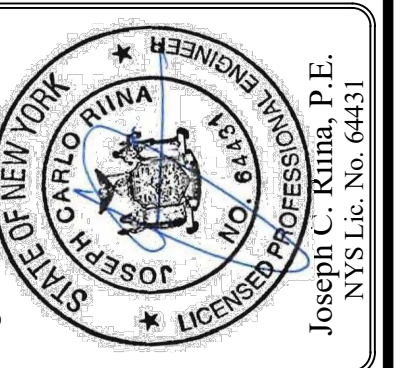
APPROVED BY THE TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION DATED: \_\_\_\_\_ Date: \_\_\_\_\_

CHRISTOPHER CARTHY, CAHIRMAN,  
TOWN OF NORTH CASTLE PLANNING BOARD  
ENGINEERING PLANS REVIEWED FOR CONFORMANCE TO RESOLUTION:  
Date: \_\_\_\_\_

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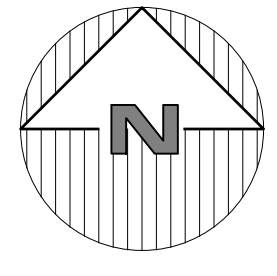
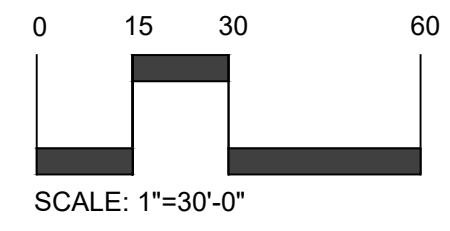
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	8	1-12-23	HD Department
	9	4-24-23	HD Department
	10	9-28-23	Town Comments
	11		Town Comments

SCALE: 1" = 30'  
DRAWN BY: CS  
DATE: 10/01/21

# EXISTING CONDITIONS PLAN

SITE PLAN PREPARED FOR  
**KEITH ROSENTHAL**  
10 CREEMER ROAD  
Town of North Castle, Westchester County, New York

Sheet 2 of 6



**SAFE DIG**  
Before You Dig, Drill or Blast!  
Call 811  
www.call811.com

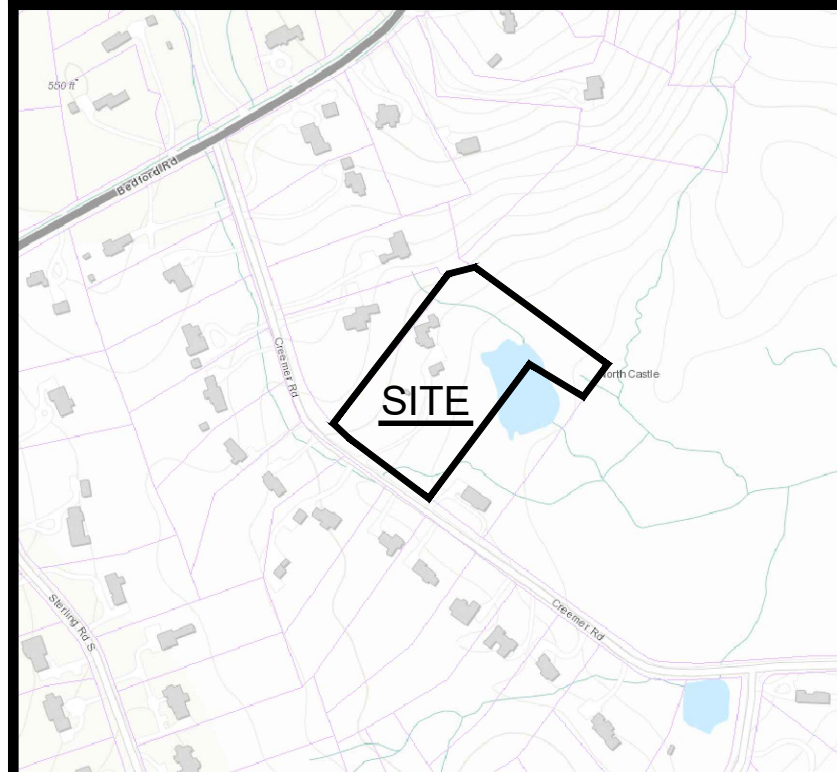
NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 1209 (2)(f) OF THE NEW YORK STATE EDUCATION LAW.  
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**NOTE:**  
THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY DANIEL T. MERRITTS, L.S., DATED 12/03/20. LAST REVISED 12/21/20. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

12 3-22-24 Town Comments

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LOCATION MAP  
NOT TO SCALE

**SITE DATA:**

OWNER / DEVELOPER:  
STREET ADDRESS

KEITH ROSENTHAL  
10 CREEMER ROAD  
ARMONK, NY 10504  
10 CREEMER ROAD  
ARMONK, NY 10504  
R-2A SINGLE FAMILY RESIDENTIAL  
SECTION 108.02, BLOCK 2, LOT 60  
5.66 ACRES (246,467 SF)  
ONSITE WASTEWATER TREATMENT SYSTEM  
DRILLED WELL  
LONG ISLAND SOUND

PROJECT LOCATION:

EXISTING TOWN ZONING:  
TOWN TAX MAP DATA:  
SITE AREA :  
SEWAGE FACILITIES:  
WATER FACILITIES:  
WATERSHED:

**LIST OF DRAWINGS:**

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SHEET 5 OF 6: SEPTIC DETAILS  
SHEET 6 OF 6:

**GENERAL NOTES:**

1. A written permit and/or approval issued by the WCHD to construct an individual sewerage system shall terminate and therefore be null and void unless construction is undertaken within one (1) year of the date of issuance.
2. If for any reason the approved construction plan cannot be followed, a revised plan must be prepared, submitted and approved by the WCHD.
3. All construction to be in accordance with these plans and last revised set of WCHD Rules and Regulations.
4. All SSTS and wells shall be located in the exact location as shown on this plan unless otherwise authorized by the WCHD.
5. Existing wells and SDS shown on this map were installed prior to approval date and are not part of this approval.
6. All laundry and kitchen wastes shall be discharged into the SSTS.
7. No cellar, roof or footing drains shall be discharged into the SSTS or within 25' of any well.
8. The WCHD shall be notified WITHIN 24 HOURS prior to the backfilling of any completed SSTS so that a final inspection can be made. Upon completion of any backfilling, the area shall be covered with a minimum of 4" of topsoil, seeded and mulched.
9. Prior to commencement of operation, a Certificate of Compliance must be applied for and received from WCHD.
10. The proposed SSTS shall be isolated and protected against damage by erosion, storage of earth or materials, displacement, compaction or other adverse physical change in the characteristics of the soil or in the drainage of area.
11. Proposed septic area to be kept free of traffic and debris during house construction and install adequate drainage to prevent erosion after septic is installed.
12. Any modifications or deviations from this plan must be approved by the Design Engineer and WCHD prior to construction.
13. The Engineer shall not be held responsible or held accountable for the integrity of any structures constructed or under construction prior to the approval of the plans.
14. All conditions, locations, and dimensions shall be field verified and the Engineer shall be immediately notified of any discrepancies.
15. All written dimensions on the drawings shall take precedence over any scaled dimensions.
16. The Design Engineer shall supervise the construction of the SSTS and make an open works inspection.
17. The Design Engineer disclaims any liability for damage or loss incurred during or after construction.
18. The Contractor must have a valid license from the WCHD.
19. Contractor to verify all substructures encountered during construction.
20. The Contractor shall supervise and direct the work using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the work under the contract.
21. The Contractor shall be responsible to the owner for the acts and omissions of his employees, subcontractors, and their agents and employees, and any other persons performing any of the work under a contract with the Contractor.
22. Unauthorized alterations or additions to this drawing is a violation of Section 7209 (2) of the New York State Education Law.
23. Survey and topographical information shown hereon prepared by surveyor: DANIEL T. MERRITS

**SEPTIC CONSTRUCTION REQUIREMENTS:**

1. The construction of the septic system shall meet all requirements of the latest publications and amendments of "The Westchester County Health Department Rules and Regulations for The Design and Construction of Residential Subsurface Sewage Treatment Systems and Drilled Wells in Westchester County" and "The Rules and Regulations of The New York State Department of Health" as set forth in 10 NYCRR, Part 75, Appendix 75-A.
2. The Westchester County Health Department approval expires one year from the date on the approval stamp and is required to be renewed on or before the expiration date. The approval is revocable for cause or may be amended or modified when considered necessary by the department.
3. All work performed including new installations, repairs, relocations, etc. shall have all current required permits or approvals.
4. No grading in OWTS area except as shown on this plan.
5. Boulders, if any on surface of ground shall be cleared away prior to construction of the OWTS.
6. The house sewer to tank connection shall be a minimum 4" diameter at a minimum slope of 2.0%. The pipe shall be cast iron, ductile iron, or sewer grade PVC. All materials shall comply to the NYS Uniform Fire Prevention and Building Code (NYCRR). The house trap shall have a cleanout and fresh air intake having a minimum diameter of one-half.
7. If cover exceeds 2 ft over any installed tank or chamber, a manhole and collar to grade is required for access. Minimum requirement of 6-12" of cover over all tanks and chambers.
8. Absorption Fields to be constructed of 4" perforated PVC pipe or equal, encased in crushed stone over pipe with standard precast junction boxes at inflow connection and 4" solid PVC pipe running from septic tank outlet to and between junction boxes.
9. Minimum Trench Depth = 18", Trench Width = 24".
10. Total depth of stone in trench = 12" (washed gravel 3/4" to 1 1/2").
11. Maximum backfill over trench = 14".
12. All septic field laterals shall be of equal length (60' max. w/o dosing and 100' max. if dosed) and parallel to contours at a slope rate of 1/32" per foot or 0.25%.
13. All pipes connecting to tank and boxes shall be cut flush with the inside wall of box.
14. PVC pipe to meet minimum standards of ASTM D-2729.
15. Absorption trenches shall not be installed or backfilled in wet, frozen, frost or snow covered soils.
16. Backfill material for the trenches shall contain no particles with any dimension greater than 4". Backfill septic material must be inspected and approved by the WCHD before installation.
17. No laterals shall be placed beneath a driveway or paved areas.
18. End caps to be placed at end of all 4" perforated P.V.C. pipe in absorption fields.
19. Run of bank sand and gravel and impervious material to be inspected and approved by the Design Engineer prior to installation of the proposed system. Fill shall contain no particles greater than 4" in diameter. Fill shall be placed over expansion area where shown as required by WCHD.
20. Fill stabilization may not be achieved by mechanical compaction Only by a natural settling, for a period required by W.C.H.D. which may include a freeze-thaw cycle. Percolation tests must be done in stabilized fill and must meet the design rate.
21. Prior to submission of Certificate of Compliance to WCHD, fill section must be stabilized with grass seed and hay cover.
22. Spa pool drainage and filter backwash will not discharge to any SSTA.

**WCHD NOTES:**

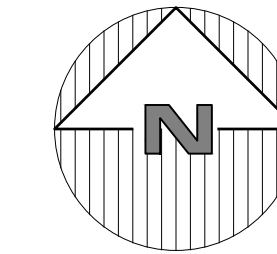
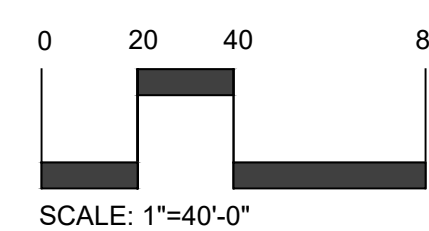
1. The design professional shall supervise the construction of the OWTS and make an open works inspection.
2. Within 24-hours of the completion of the OWTS, the design professional must notify the Westchester County Department of Health that the OWTS is ready for inspection by submitting a completed request for an open works inspection on the appropriate form to the Department.
3. There are DEC wetlands on site nor within 200' of OWTS. There are streams, ponds etc. within 200' of SSTS. There are no reservoir/reservoir stems or controlled lake with in 500' of OWTS.
4. There is 19,100 sqft of proposed disturbance.
5. There are no existing or proposed wells within 100 feet of the proposed OWTS nor within 200 feet in the line of drainage.
6. There are no existing OWTS within 200 ft of well unless otherwise shown on this plan.
7. Estimated construction and completion date: May 2023 to May 2024.
  - a) Within 24 hours of the completion of the OWTS, the design professional must notify the Westchester County Department of Health (WCHD) that the OWTS is ready for inspection by submitting a completed request for an open works inspection on the appropriate form to WCHD.
  - b) That no backfilling of a completed OWTS can occur until after it has been inspected and accepted by the Westchester County Department of Health.
  - c) After backfilling the OWTS, the area shall be covered with a minimum of 4 inches of clean top soil, seeded and mulched.
8. There shall be no trees within 10' of the OWTS.
9. Prior to any excavation, all underground utilities must be located. Call 1-800-962-7962.

**MINIMUM RESTRICTIVE DISTANCES TO WELL:**

- |                             |   |
|-----------------------------|---|
| 1. Property Line            | 10 feet                                     |
| 2. Sewage System Tankage    | 50 feet                                     |
| 3. Foundation               | 10 feet                                     |
| 4. Swimming Pools           | 10 feet                                     |
| 5. Watercourse or Waterbody | 50 feet                                     |
| 6. Absorption Trench        | 100 feet; 200 feet general path of drainage |
| 7. Seepage Pit              | 150 feet; 200 feet general path of drainage |
| 8. Tri-gallery, 4x4         | 150 feet; 200 feet general path of drainage |
| 9. Flow Diffuser            | 100 feet; 200 feet general path of drainage |

SEPTIC DESIGN AREA:  
EXISTING EXPANSION SYSTEM AREA  
PROPOSED EXPANSION SYSTEM AREA

SLOPE  
10.0%  
5.8%



SAFE DIG  
Before You Dig, Drill or Blast!  
Call 811  
Call 811 to locate underground utilities before you dig, drill or blast. It's the safe way to dig. Call 811 at least 48 hours before you dig, drill or blast. For more information, visit www.call811.com

**Table 1  
Separation Distances from Wastewater Sources**

Wastewater Sources	Drilled Well or Section Line (ft) (a)	Stream, Lake, Watercourse (ft) or Wetland (ft) (b)	Dwelling (ft) (c)	Property Line (ft) (d)	Drainage Ditch, Rain Gutter (ft) (e)	Inground Pool (ft) (f)
House Sewer	35 CIP 50 Other	25	3	10	10	10
Septic Tank	50	50	10 (d)	10	10	20
Effluent Line/Force Main	50	50	10	10	10	10
Distribution Box/Junction Box	100	100	20 (d)	10	20	20
Absorption Fields (f)	100 (a)	100	25 (d)	10	20	35
Seepage Pit	150 (a)	100	20 (d)	10	20	50
Dry Well (d)						
Roof - Downspout	50	25	20	10	10	20
Road - Downspout	100	25	20	10	10	20

- (a) Wells located in general path of an OWTS must be located 200 feet or more away. All public water supply wells must be 200 feet or more away.  
 (b) Mean high water mark of defined stream or lake.  
 (c) Driveways are not allowed above OWTS (sprawls, storm water infiltrator units or other subsurface storm water infiltration units)  
 (d) For slab on grade foundations with no drains, distance can be reduced to half  
 (e) For all systems involving placement of fill, separation distances are measured from the toe of slope of the fill.  
 (f) Closest part of OWTS shall be located at least ten (10) feet from any water service line (i.e. - PWS main, water service connection, well)  
 (g) Recommended  
 (h) Septic tanks are not permitted beneath raised decks and require a minimum of five (5) separation from deck piers (sootubes)
- Additional Separation Distances from Absorption Area to:  
 Piped Drainage 25 ft  
 Open Channel Drainage 50 ft  
 Curtain Drain (upgrade from OWTS) 15 ft  
 Curtain Drain (downgrade from OWTS) 50 ft  
 Catch Basin 50 ft  
 Driveway 5 ft  
 Storm Water Basin Above Ground Pool 100 ft. (high water elevation)  
 Deck with Piling/Sonotube 10 ft  
 Slab on Grade Foundation 10 ft  
 Road and Footing Drain Discharge Pipe 10 ft

DESIGN BASIS CALCULATIONS FOR 100% EXPANSION:  
4 BEDROOM RESIDENCE @ 110 GAL/BDRM = 440 GAL

2 BEDROOM COTTAGE @ 110 GAL/BDRM = 220 GAL x 1.25 (25% INCREASE) = 275 GAL

TOTAL DESIGN FLOW = 715 GAL.

LENGTH OF FIELDS FOR EXPANSION:  
PERCOLATION DESIGN RATE: 1-5 MIN/IN  
APPLICATION RATE: 1.2 GPD/SF  
L = (715 GPD / 1.2 GPD/SF) x 2 SF/LF = 298 LF REQUIRED

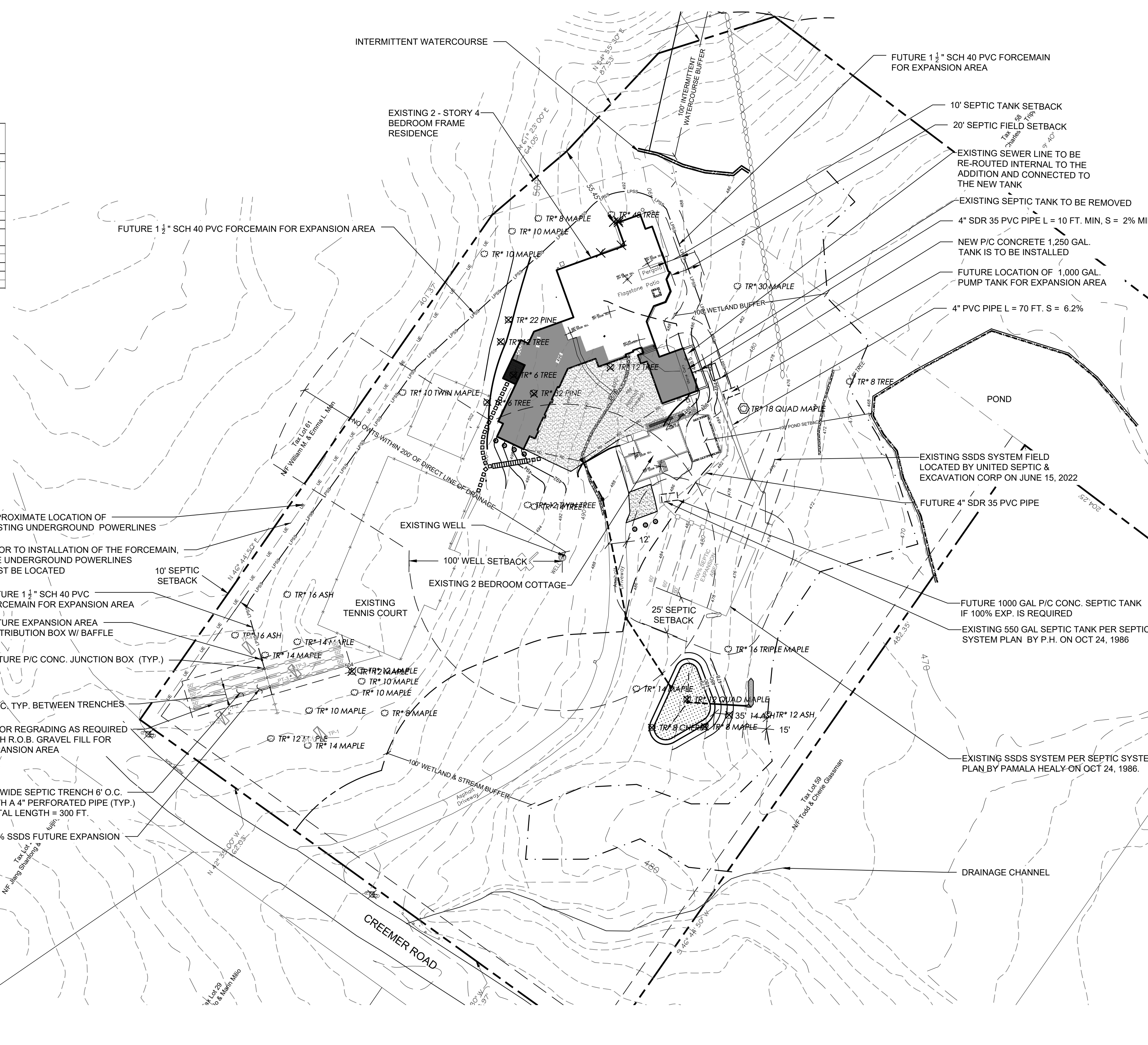
\*ALL NEW PLUMBING FIXTURES SHALL BE WATER SAVING MODELS AND ALL EXISTING PLUMBING FIXTURES WILL BE REPLACED WITH WATER SAVING MODELS AT THE TIME THE 100% EXPANSION AREA IS REQUIRED.



**SOILS CLASSIFICATIONS**

TYPE	NAME	DESCRIPTION	HYDROLOGICAL GROUP
Ce	CATDEN	MUCK	B/D
CsD	CHATFIELD-CHARTON	VERY ROCKY	B
NcA	NATCHAUG	MUCK	B/D
PvB	PAXTON	FINE SANDY LOAM	C
PvC	PAXTON	FINE SANDY LOAM	C
Sh	SUN	LOAM	C/D
W	WATER	-	-

NOTE:  
1. THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY DANIEL T. MERRITS, L.S. DATED 12/03/20, LAST REVISED 12/21/20. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.



**HEALTH DEPARTMENT SEPTIC SCHEDULE FOR 100% EXPANSION AREA**

S.S.T.A. AREA (S.F.)	LOT AREA (S.F.)	TEST HOLE NO.	DEEP TEST PIT DESCRIPTION	TOTAL DEPTH	DEPTH TO WATER	DEPTH TO ROCK	PERCENT SLOPE AREA	PERC TEST NO.	PERC RATE (MIN/IN)	MIN. DESIGN RATE	APPLICATION RATE (GPD/SF)	NO. OF BEDROOMS	DESIGN FLOW RATE	TANK SIZE	REQD. TRENCH LENGTH	PROVIDED TRENCH LENGTH	LENGTH PER TRENCH	BANK RUN FILL DEPTH	CURTAIN DRAIN DEPTH	REMARKS	
2,500 S.F.	246,467 S.F.	TP-#1	6' T. SOIL, 6'-84" FINE MED SANDY LOAM, NO ROCK, NO GROUNDWATER	7'-0"	---	---	---	PT-1	1.2 MIN.	1.5 MIN.	1.2	4 BDRM + 2 BDRM	715 GPD	1,250 GAL MAIN RES. + 1,000 GAL FUTURE FOR THE COTTAGE	298 LF	300 LF	50 LF	0-1 FT MINOR GRADING	<100 CY	---	DOSING RECD.
		TP-#2	6' T. SOIL, 6'-84" FINE MED SANDY LOAM, NO ROCK, NO GROUNDWATER	7'-0"	---	---	5.8 %	PT-2	3 MIN.												
		TP-#3	6' T. SOIL, 6'-84" FINE MED SANDY LOAM, NO ROCK, NO GROUNDWATER	7'-0"	---	---		PT-3	3 MIN.												
		TP-#4	12' T. SOIL, 12'-84" FINE SANDY LOAM, NO ROCK, NO GROUNDWATER	7'-0"	---	---															

NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

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PROJECT # 21-28

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Joseph C. Kuma, P.E.  
NYS Lic. No. 64431

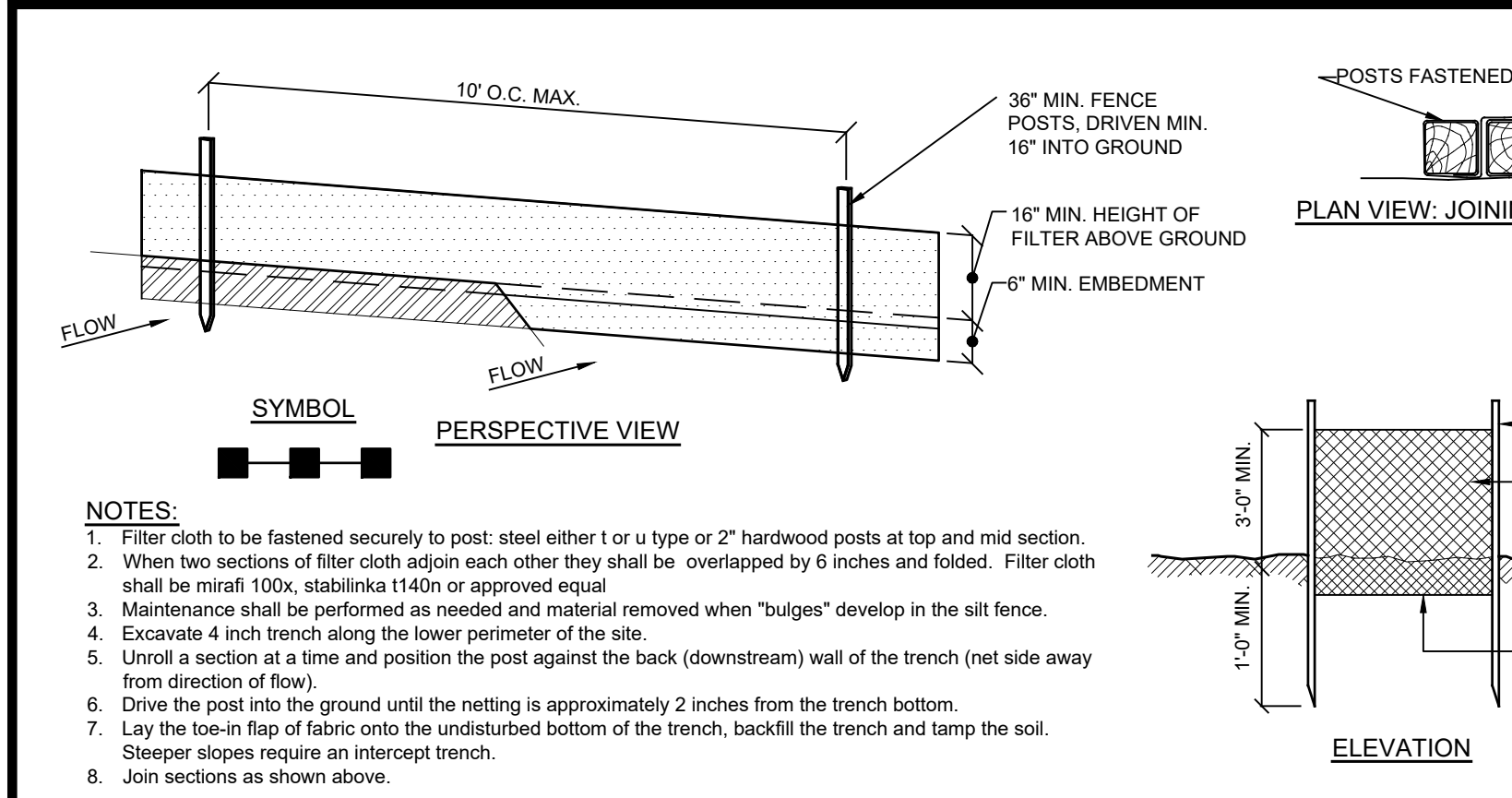
Revisions:  
No. Date Comments  
1 1-7-21 HD Department  
2 2-14-22 HD Department  
3 3-4-22 HD Department  
4 6-3-22 Plan updates  
5 6-3-22 Plan updates  
6 7-11-22 Towel Comments  
7 10-28-22 Towel Comments  
8 1-12-23 HD Department  
9 4-24-23 HD Department  
10 9-28-23 HD Department

SCALE: 1" = 40'  
DRAWN BY: CS  
DATE: 10/01/21

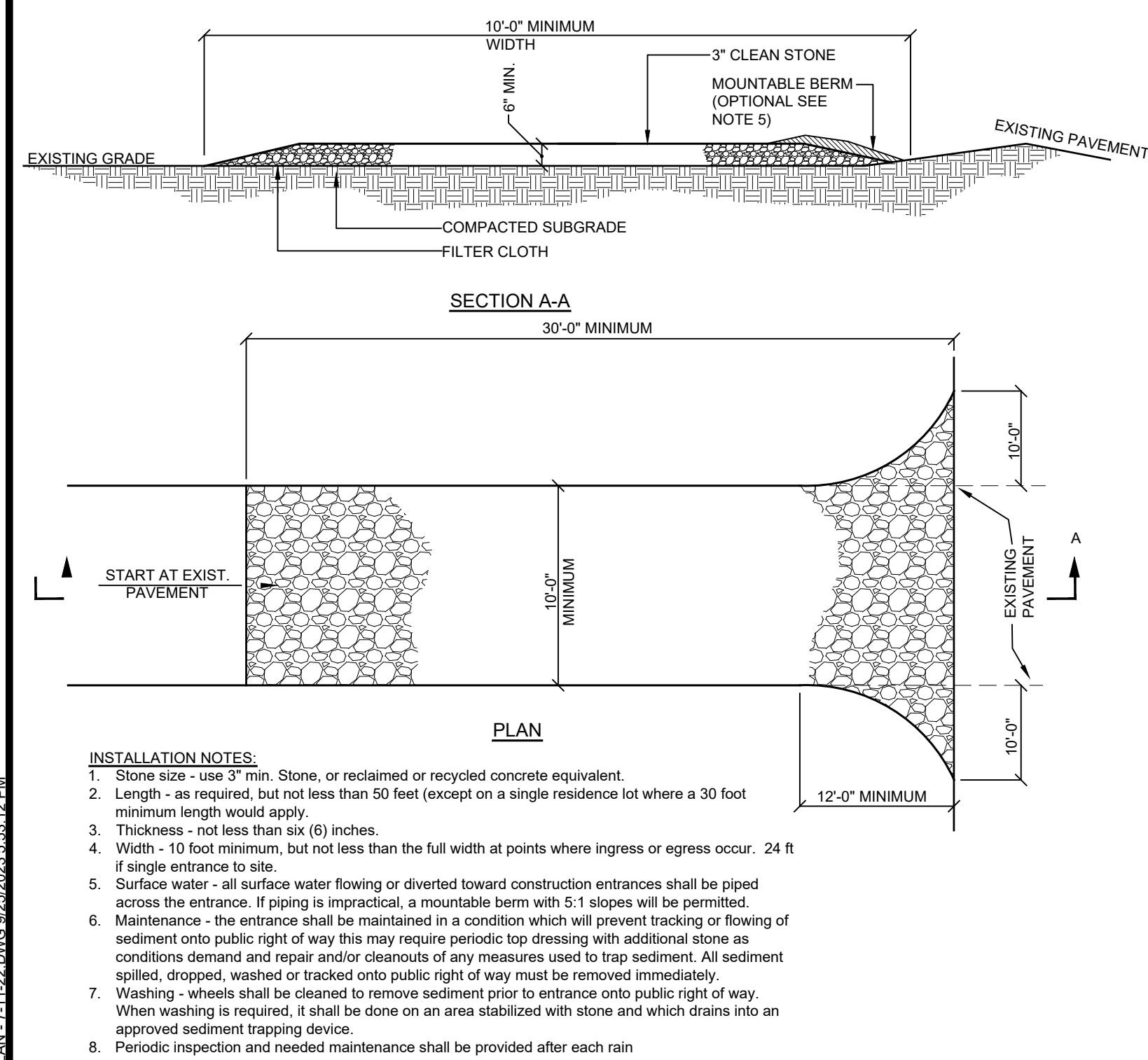
**OWTS TANK RELOCATION & 100% EXPANSION DESIGN**

SITE PLAN PREPARED FOR  
**KEITH ROSENTHAL**  
10 CREEMER ROAD  
Westchester County, New York

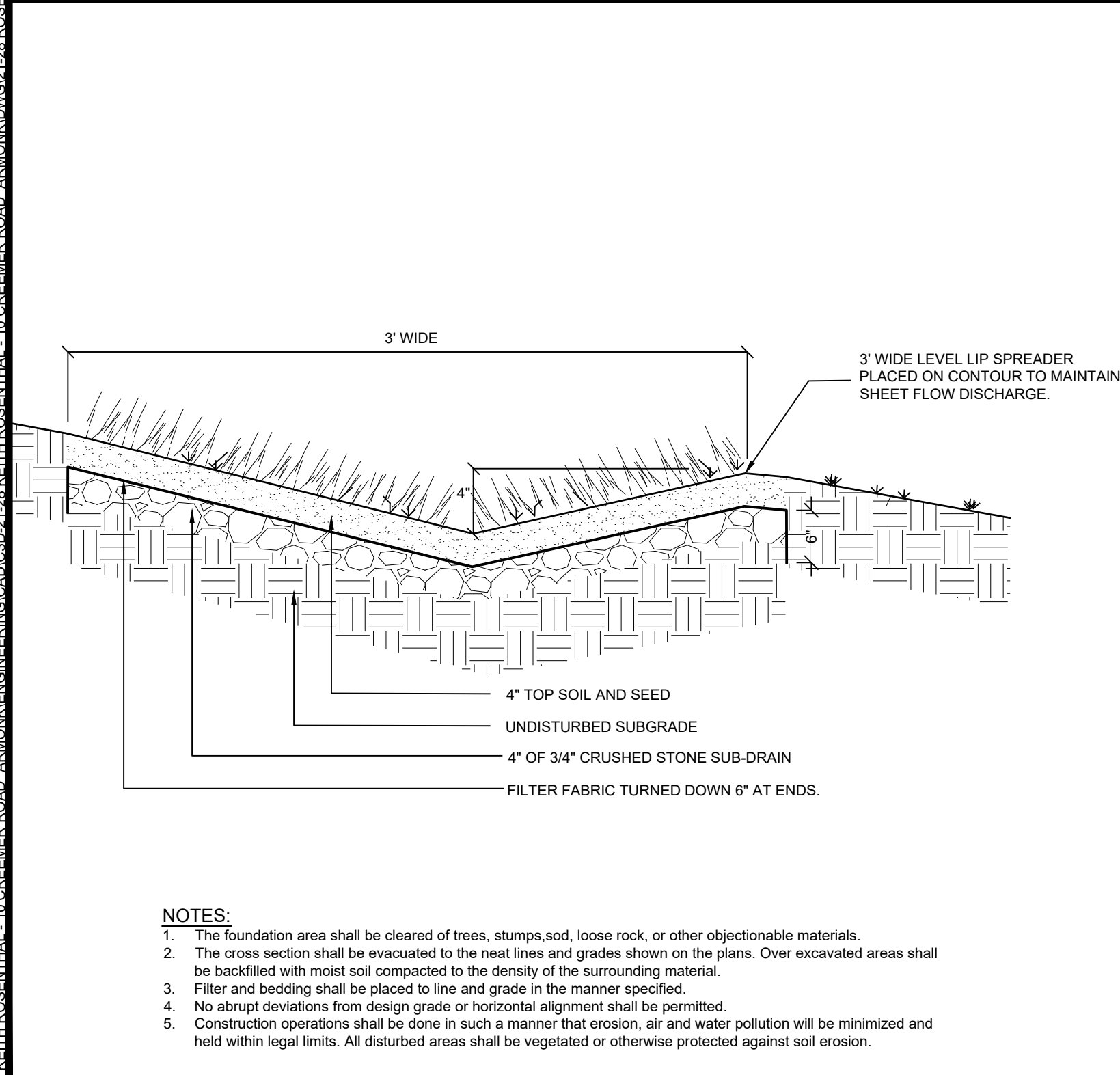
Sheet 3 of 6



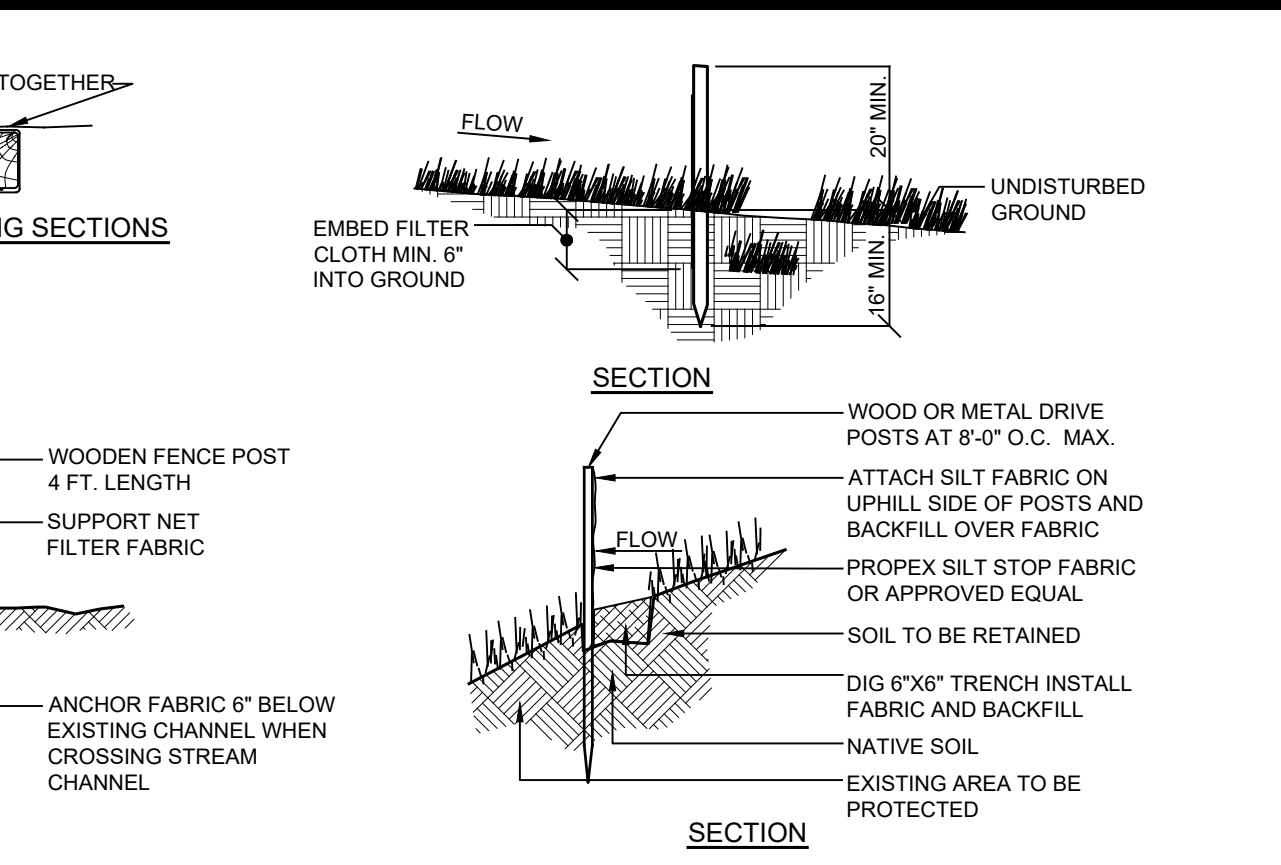
**E-1 SILT FENCE DETAIL**  
NOT TO SCALE



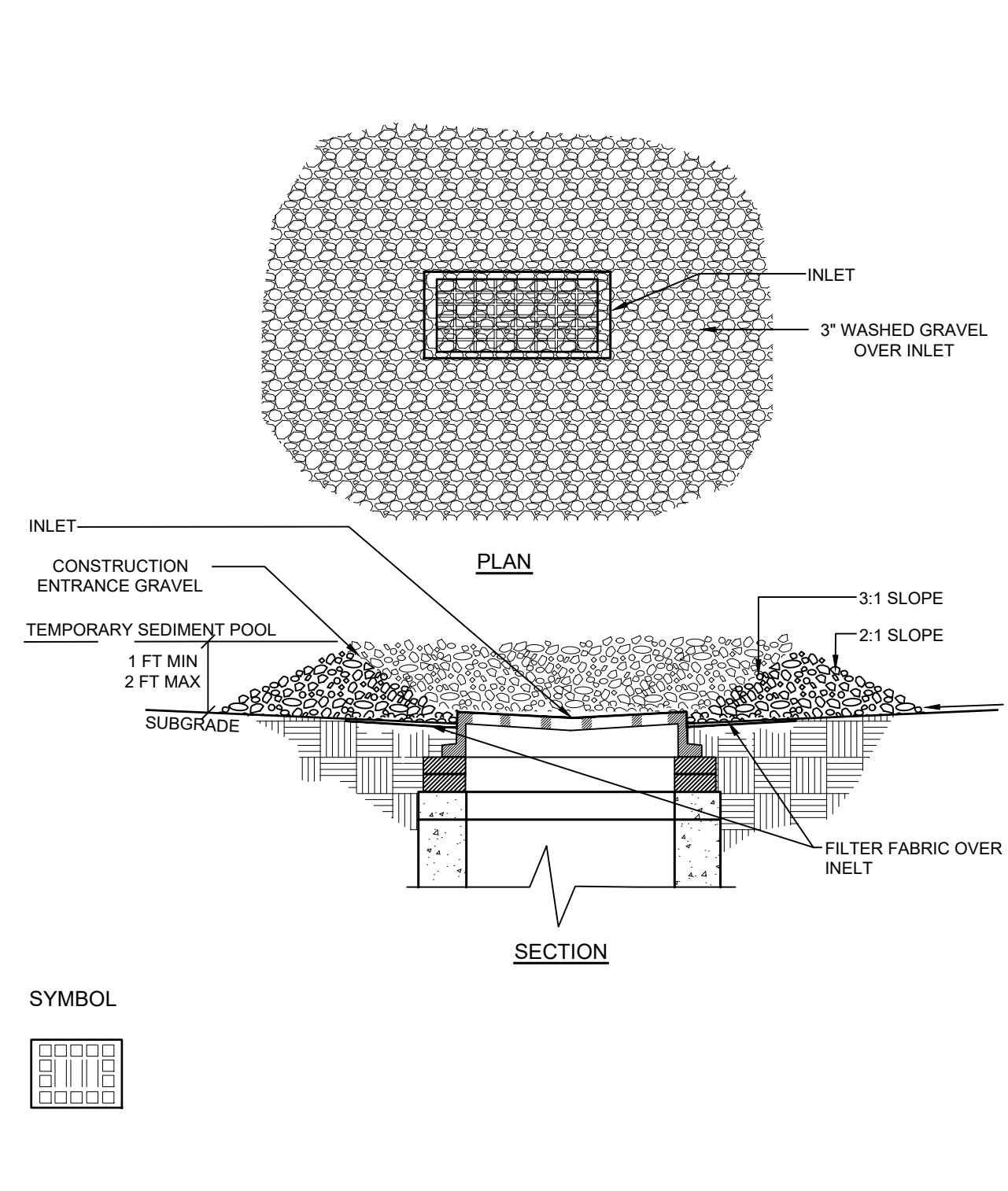
**E-2 STABILIZED CONSTRUCTION ENTRANCE DETAIL**  
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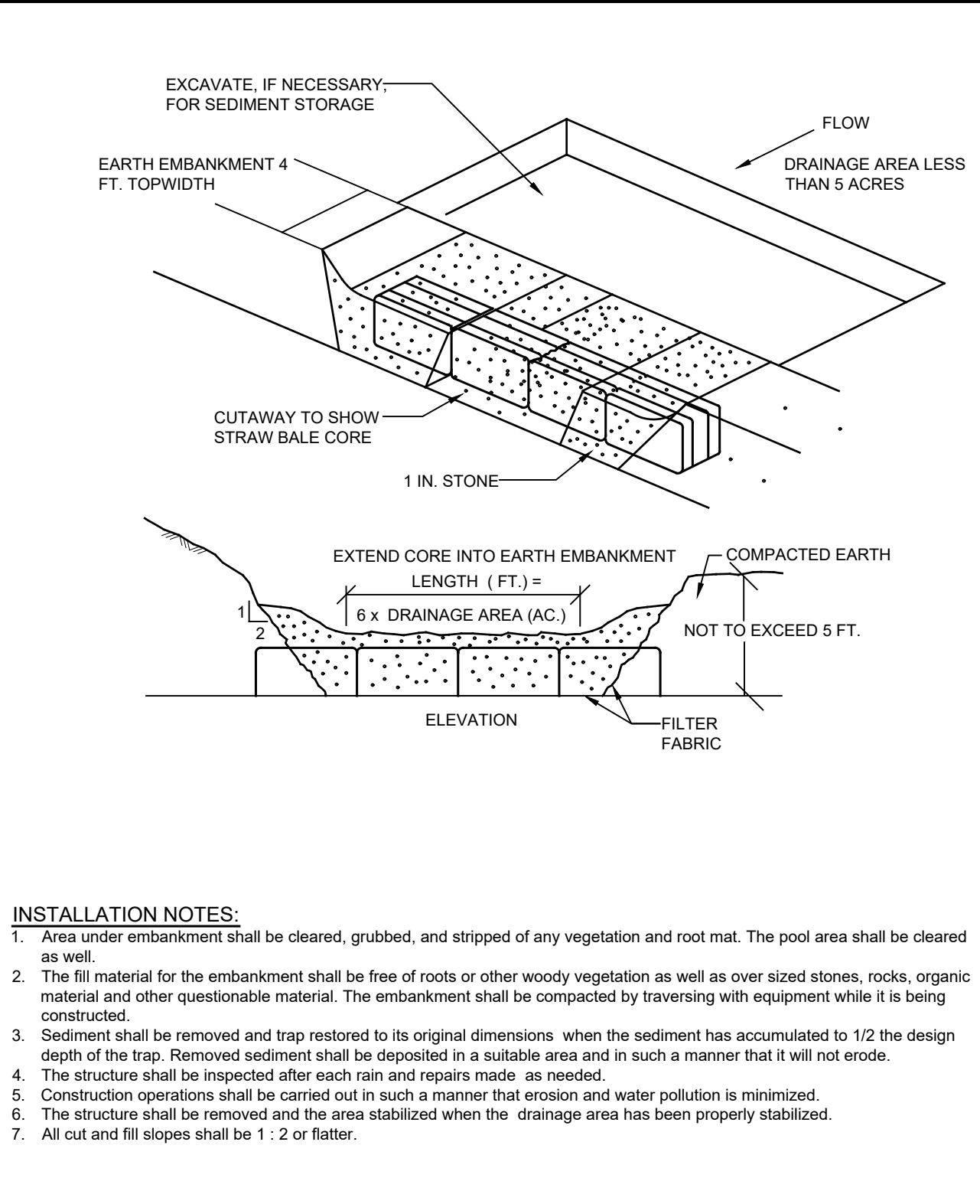
**SW-3 GRASS LEVEL-LIP SPREADER DETAIL**  
NOT TO SCALE



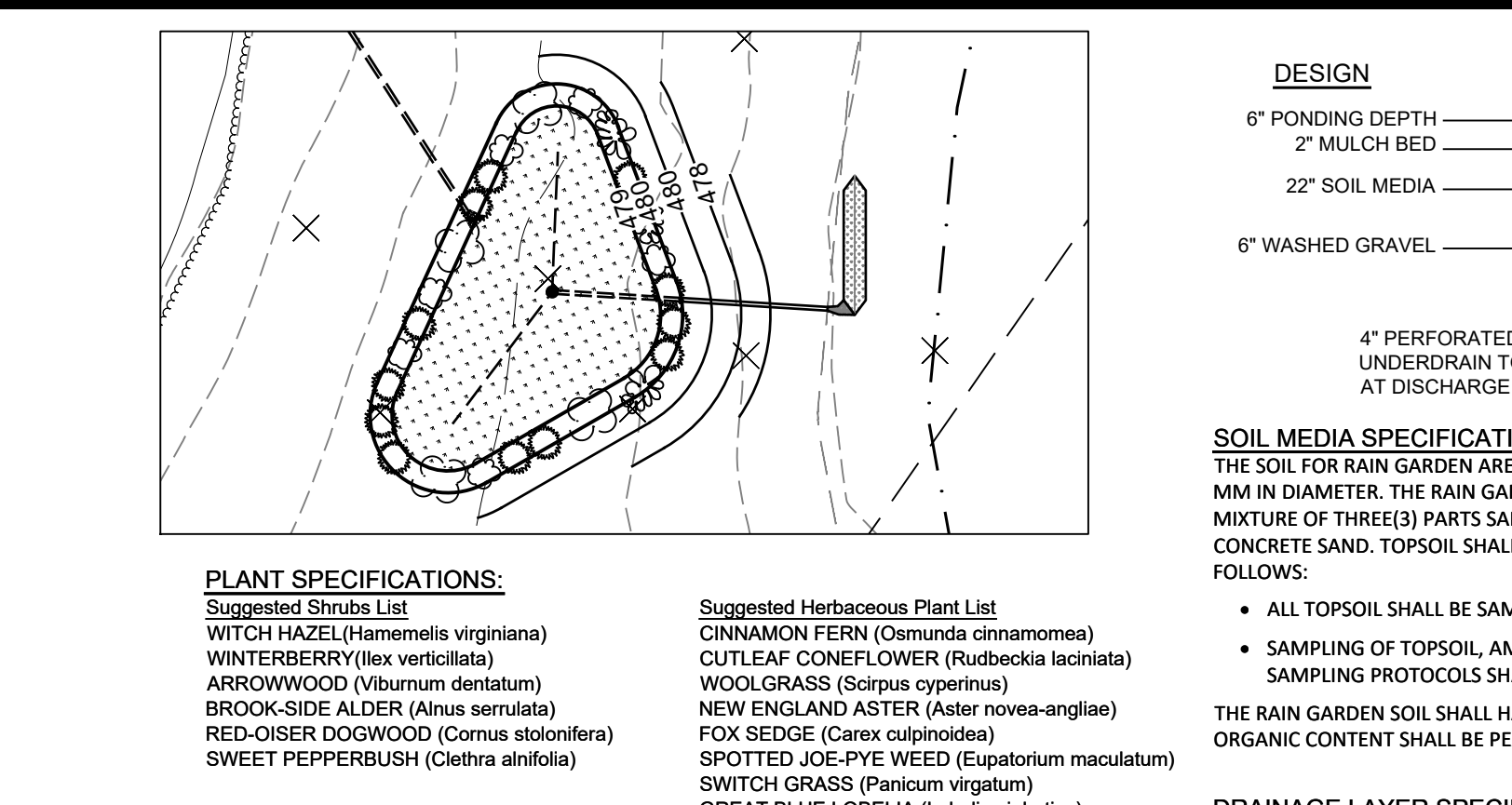
**E-3 INLET PROTECTION DETAIL**  
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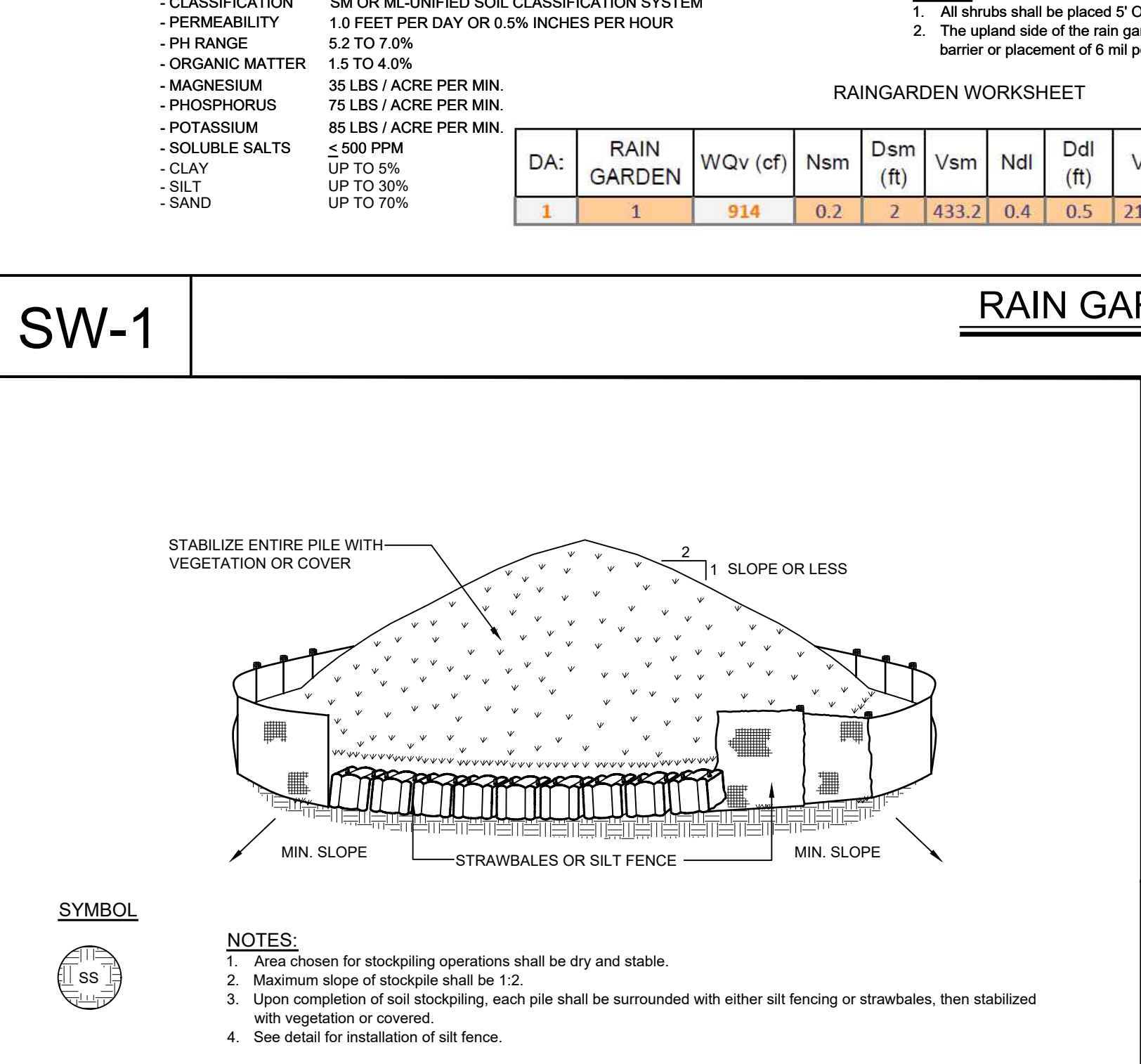
**E-4 SOIL STOCKPILE DETAIL**  
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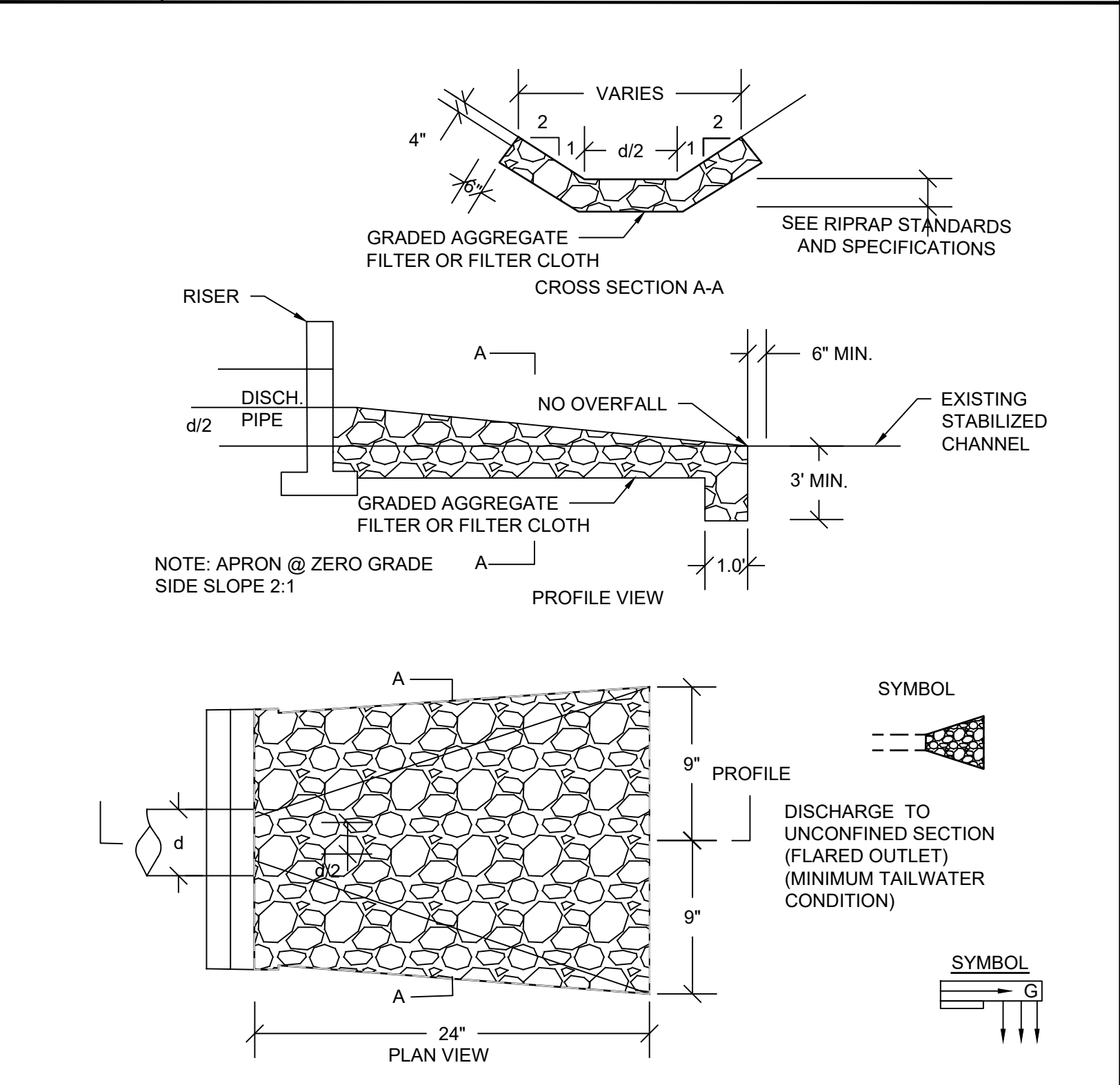
**E-5 STONE OUTLET SEDIMENT TRAP DETAIL**  
NOT TO SCALE



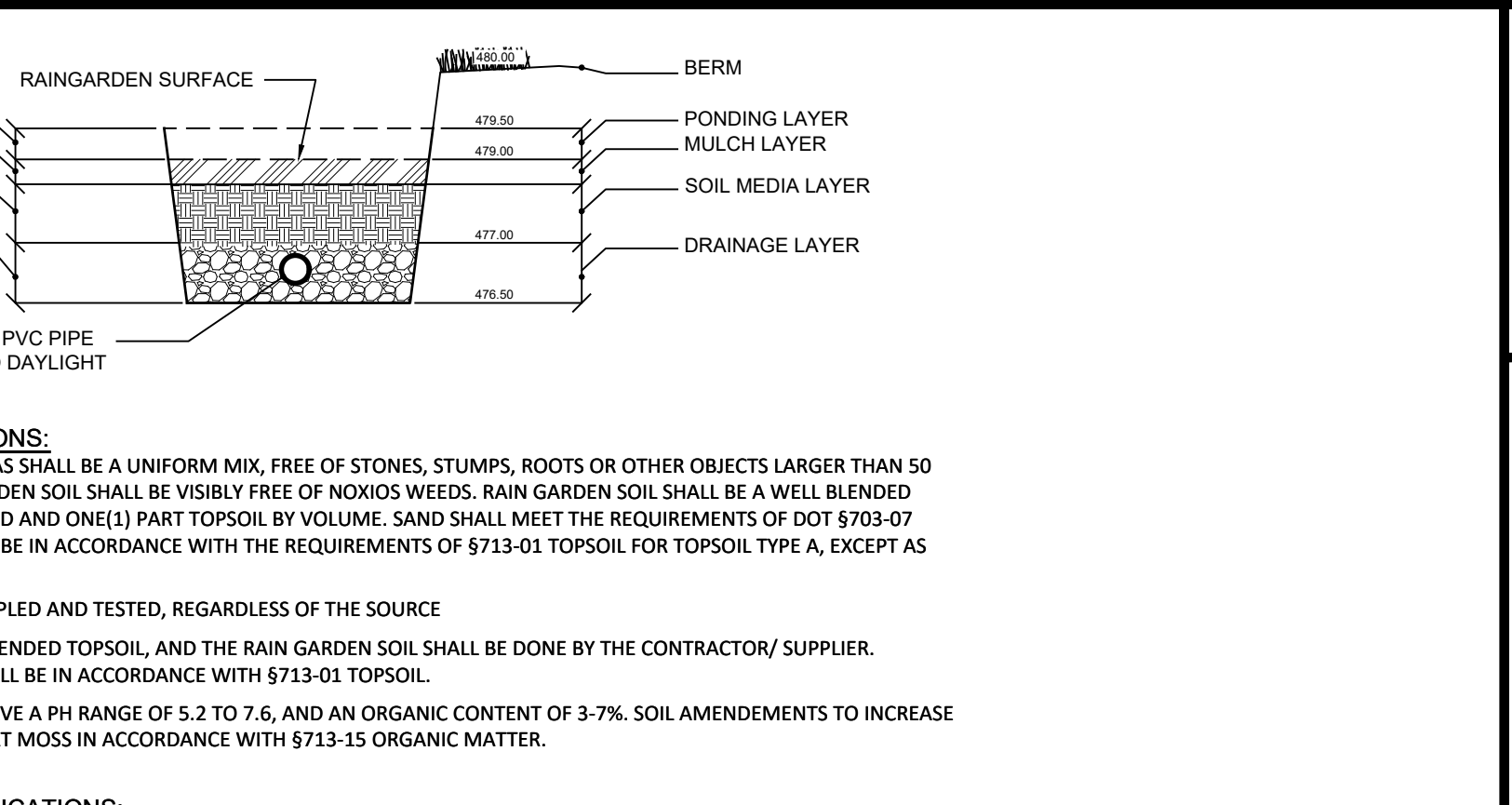
**SW-2 RIP-RAP DETAIL**  
NOT TO SCALE



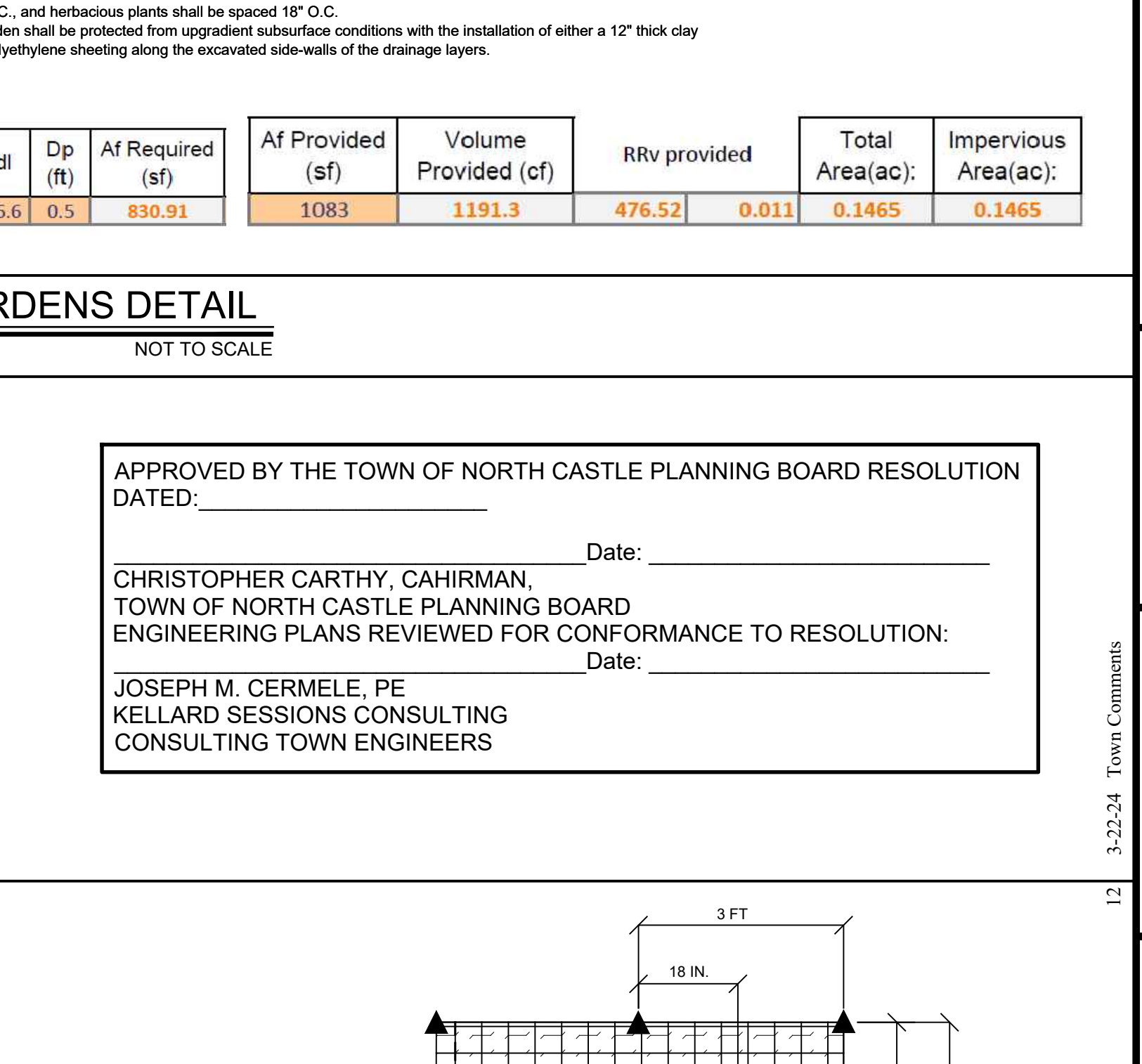
**SW-1 RAIN GARDENS DETAIL**  
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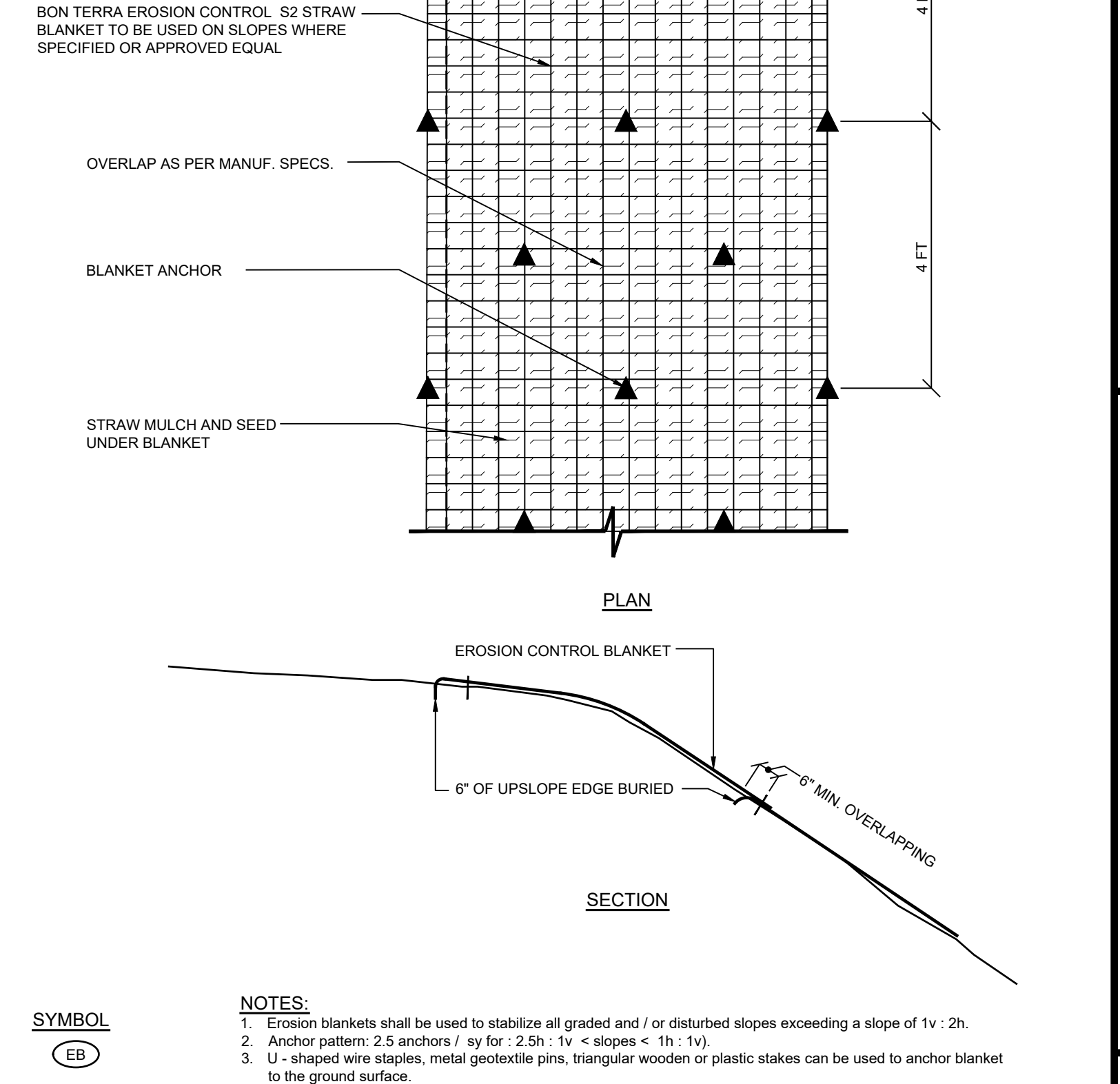
**E-6 EROSION BLANKET AND ANCHOR DETAIL**  
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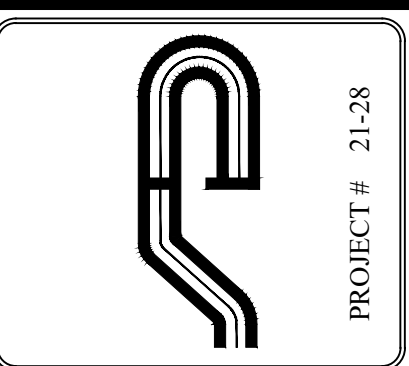
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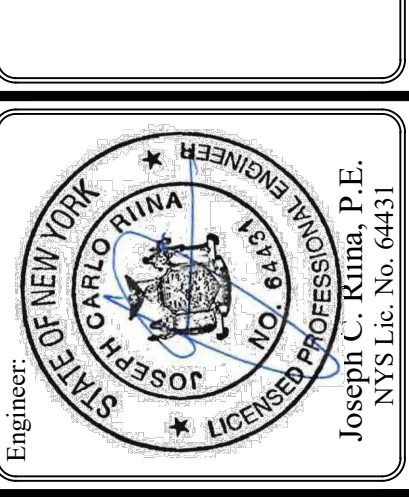
**E-6 EROSION BLANKET AND ANCHOR DETAIL**  
NOT TO SCALE



**E-6 EROSION BLANKET AND ANCHOR DETAIL**  
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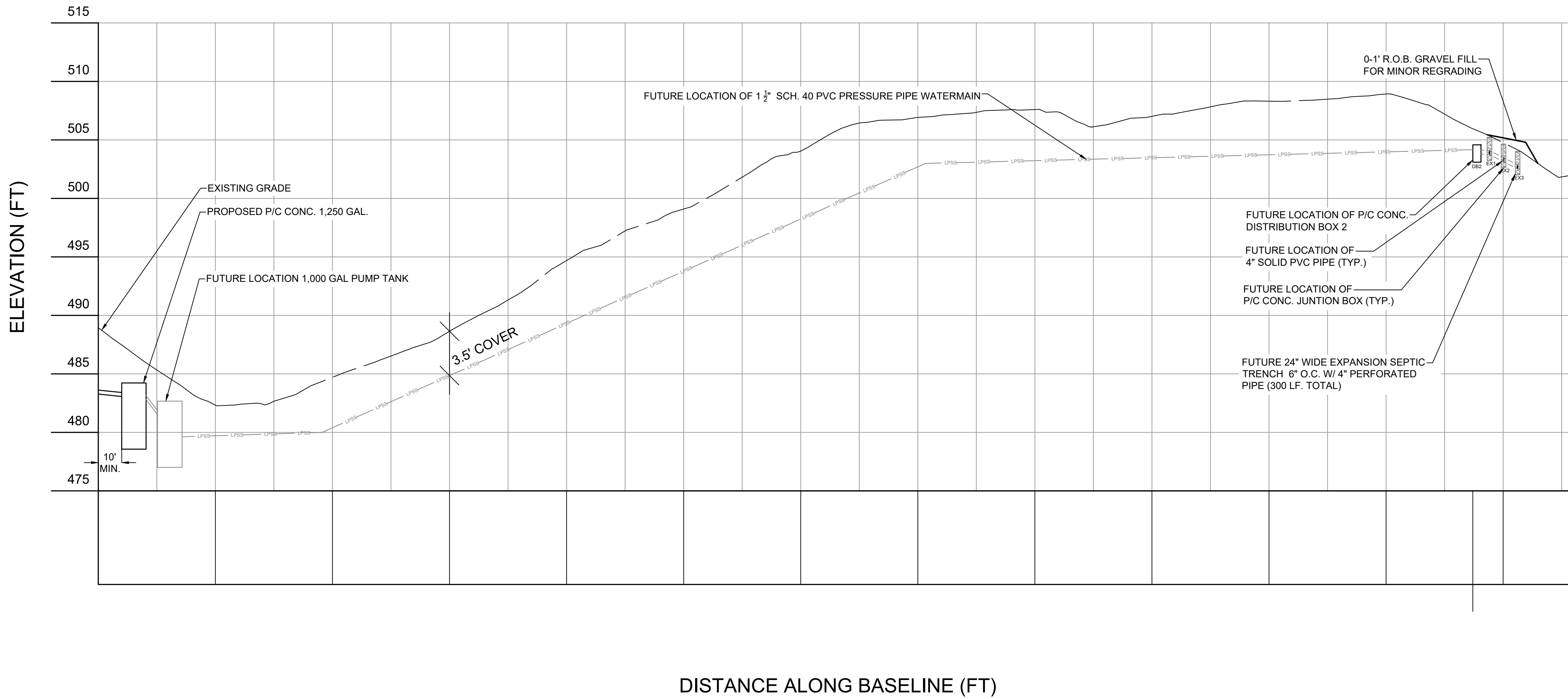


No.	Date	Comments
1	1-7-21	HD Department
2	2-14-22	HD Department
3	3-1-22	HD Department
4	3-1-22	Plan updates
5	6-3-22	Plan updates
6	7-11-22	Town Comments
7	10-28-22	Town Comments
8	1-12-23	HD Department
9	4-24-23	HD Department
10	9-25-23	Town Comments

**EROSION AND STORMWATER DETAILS**

**KEITH ROSENTHAL**  
10 CREEMER ROAD  
Westchester County, New York





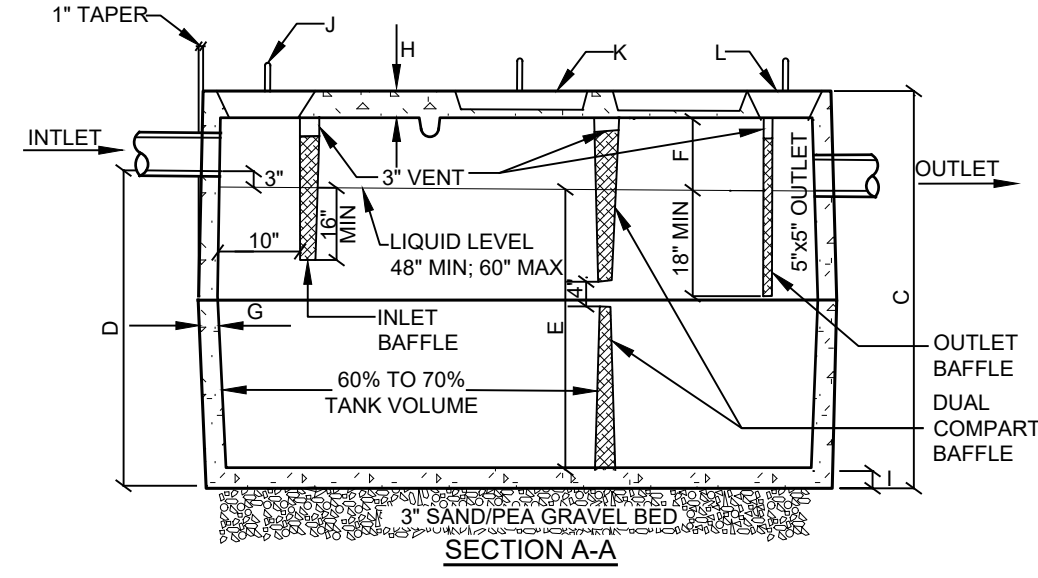
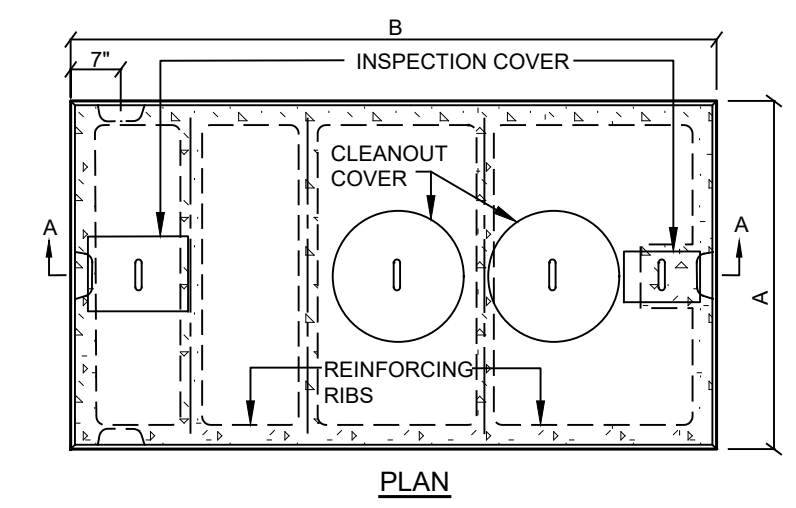
DISTANCE ALONG BASELINE (FT)

**Septic Profile**

**SEPTIC SYSTEM 100% EXPANSION PROFILE DETAIL**

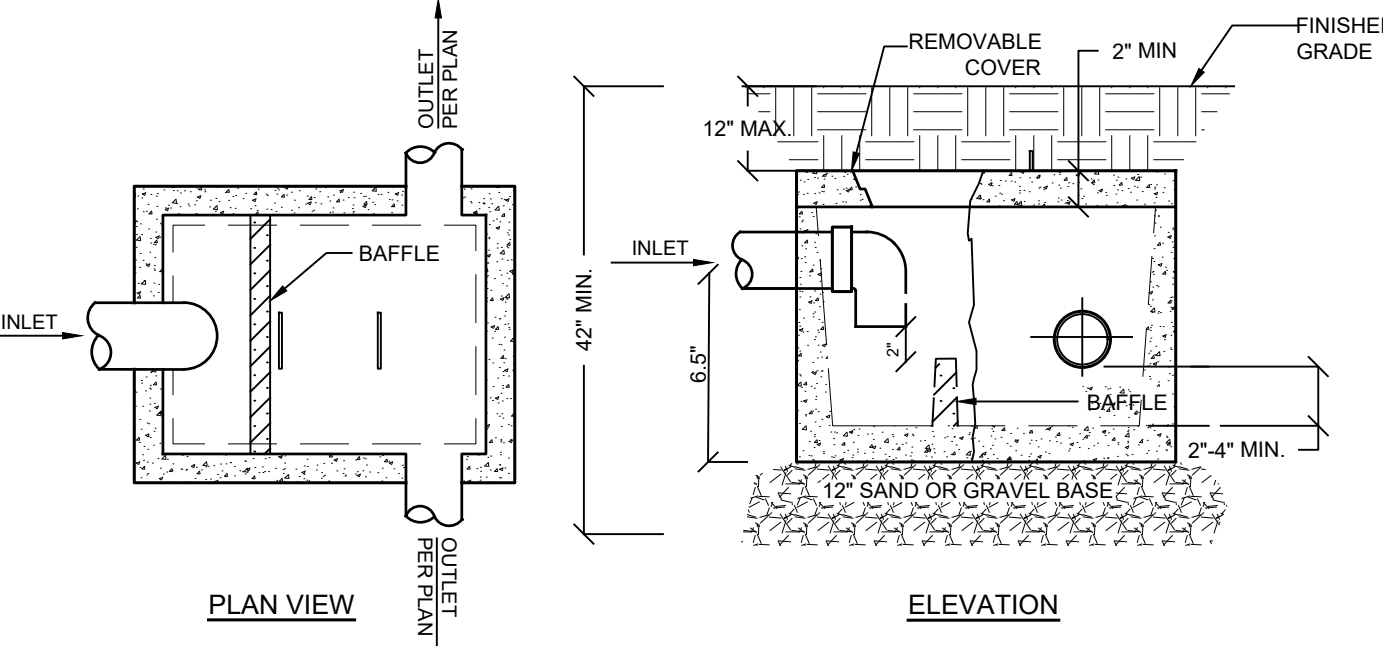
SCALE 1" = 30'

S-1



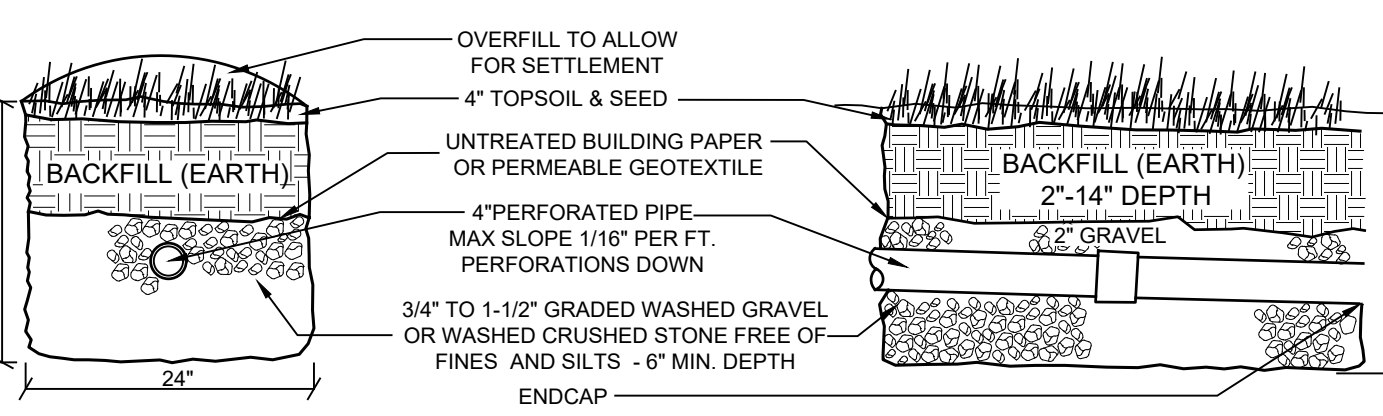
LIQUID CAPACITY	A	B	C	D	E	F	G	H	I	J	K
1,000 Gal.	60"	100"	67"	50"	40"	12"	3"	5"	4"	6'x0"	20'x14"
1,250 Gal.	60"	120"	67"	50"	40"	12"	3"	5"	4"	6'x0"	20'x14"
1,500 Gal.	65"	120"	67"	50"	40"	12"	3"	5"	4"	6'x0"	20'x14"
2,000 Gal.	78"	144"	67"	60"	40"	12"	3"	5"	4"	6'x0"	20'x14"

- NOTES:**
- The minimum required fill cover above the septic tank shall be 6 to 12 inches with a maximum cover depth of 24 inches. When required fill cover exceeds 24 inches, manhole extensions with steel frames and covers shall be installed and extended to finished grade. If the septic tank is rated for H-20 vehicle loading, the manholes, frames and covers shall be H-20 rated also.
  - The dual compartment baffle is required on all septic tanks with a length "B" equal to or greater than 10 feet.
  - For installations that require an overflow tank, a tank the same size as the septic tank shall be used. Dual compartment baffles are not required on overflow tanks regardless of the size.
  - All pipes connecting to the tank shall be cut flush with the inside wall.
  - Septic tank has a top loading capacity of 300 pcf.
  - Tank shall be manufactured by Mid Hudson Concrete Products, Inc.



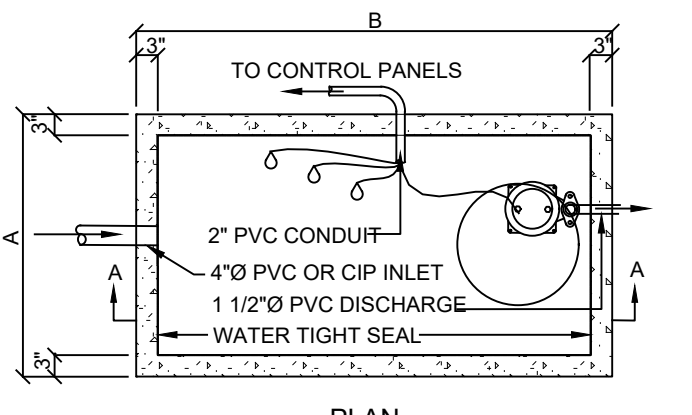
- NOTES:**
- A distribution box evenly distributes wastewater effluent to subsurface absorption areas or seepage pits.
  - Distribution boxes shall be waterproof and constructed of concrete and the concrete shall have a minimum compressive strength of 2,500 pounds per square inch at 28 day set.
  - For accessibility, it is necessary that the distribution box be located and have a removable cover not more than twelve (12) inches below grade. Where, due to site conditions, a distribution box must be greater than twelve (12) inches below the surface, an extension collar shall be installed to within twelve (12) inches of the surface.
  - All outlets from the distribution box shall be at the same level to insure the even distribution of flow.
  - To minimize frost action and reduce the possibility of movement after the distribution box has been installed, distribution boxes must be set on a bed of sand or pea gravel at twelve (12) inches thick. In addition, the bottom of the box must be set level and supported solidly to below the frost line and the footing is to extend to 42 inches below ground level.
  - All distribution boxes shall be equipped with a 90 degree elbow facing down on the inlet pipe and a baffle.
  - The drop between the inlet and outlet inverts shall be at least two (2) inches.
  - There shall be a minimum two (2) inch clearance between the inverts of the outlets and the bottom of the box to prevent short circuiting and reduce solids carry-over.
  - Speed leveler devices on the outlets are recommended to ensure equal flow to each lateral.
  - Distribution boxes should be inspected periodically to ensure equal flow to all absorption lines and to check for solids leaving the septic tank.
  - Tight joint pipe from the septic tank, discharge line from dose chamber, or forcemain from pump chamber to inlet side of distribution box.
  - Tight joint pipe between all boxes.
  - Outlet pipes to be cut flush with inside of distribution box.

**S-3 DISTRIBUTION BOX DETAIL**  
NOT TO SCALE



- NOTES:**
- Ends of all trenches are to be capped.
  - Minimum 5' of soil between the bottom of absorption trench and presence of groundwater table and/or creviced rock.
  - Maximum slope, 4 inch gravity distribution lines (1/16" per ft) 0.5% maximum.
  - Maximum slope, when dosing is provided (1/32" per ft) 0.25% maximum.

**S-4 PERFORATED PIPE TRENCH DETAIL**  
NOT TO SCALE



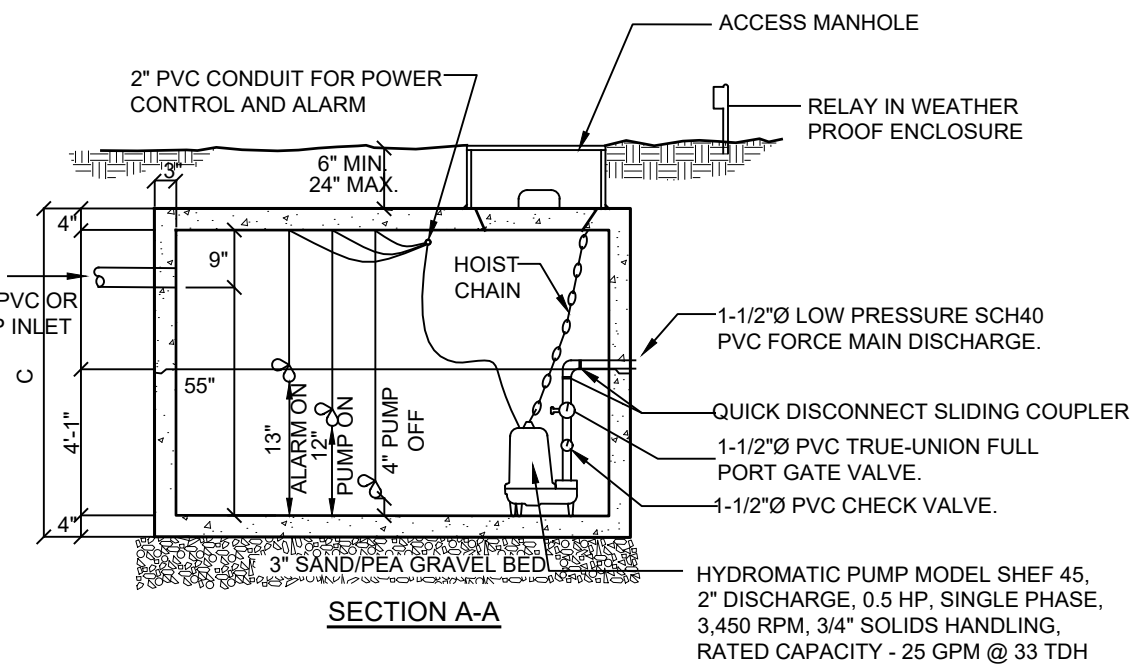
LIQUID CAPACITY	A	B	C
1000 Gal.	58"	102"	68"

**PUMP CALCULATIONS:**  
TOTAL FLOW = 715 GAL./DAY  
LENGTH OF FIELDS: 276 L.F. W/24' TRENCHES  
RATE OF PUMPING: 0.5 GAL./L.F.

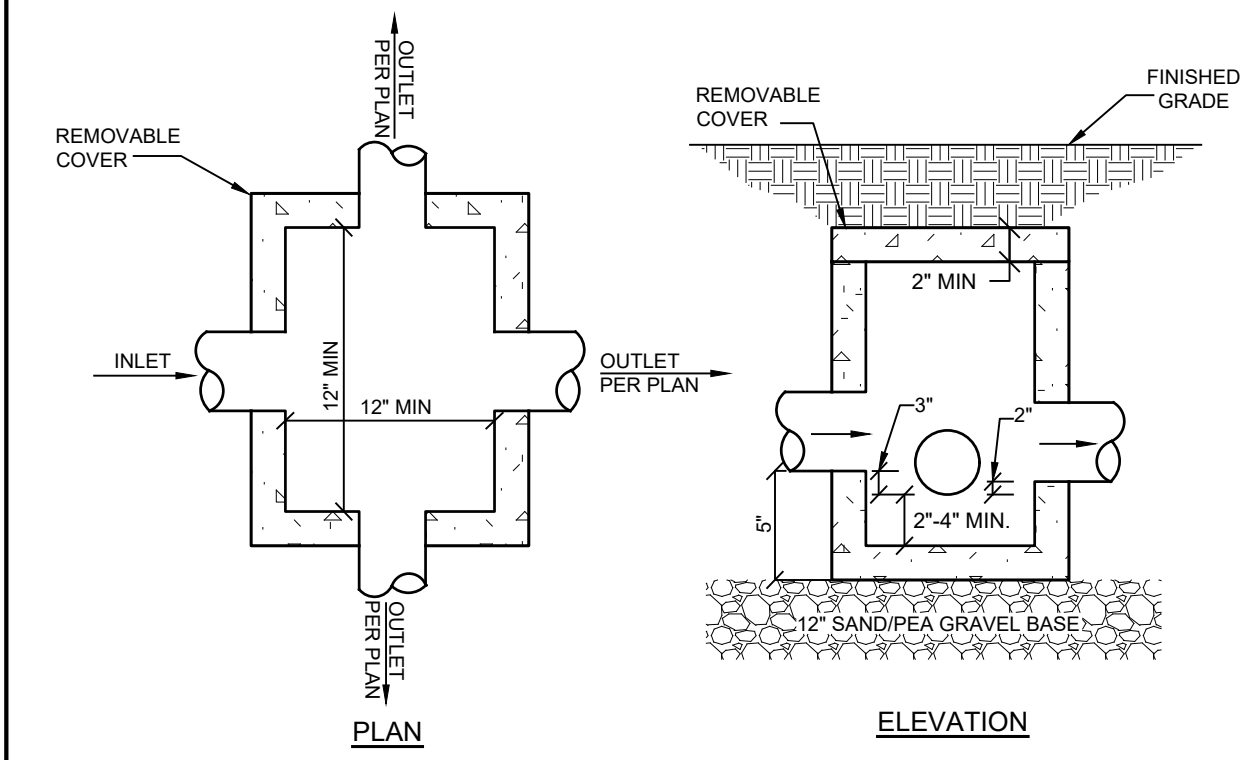
**HEAD LOSS CALCULATION:**  
TOTAL HEAD LOSS = STATIC LOSS + FRICTION LOSS + MINOR LOSS  
FROM DESIGN CALCULATIONS:  
TDH = 29' + 4' = 33'

- NOTES:**
- The minimum required fill cover above the pump chamber shall be 6 to 12 inches with a maximum cover depth of 24 inches. When required fill cover exceeds 24 inches, manhole extensions with steel frames and covers shall be installed and extended to finished grade. If the pump chamber is rated for H-20 vehicle loading, the manholes, frames and covers shall be H-20 rated also.
  - Pump shall be Hydromatic pump Model SHEF 45, 2" discharge, 0.5 HP, single phase, 3,450 RPM, 3/4" solids handling, rated capacity of 25 GPM @ 33 FT TDH.
  - The Contractor shall provide one (1) spare pump of equal size to be maintained on site at all times.
  - Pump chamber as manufactured by Mid Hudson Concrete Products Inc.
  - Pump settings may vary for tanks whose dimensions differ from those shown above. Contractor shall notify engineer of any change.
  - All pipes connecting to the chamber shall be cut flush with the inside wall.
  - Contractor shall supply and install control / alarm panel within building basement or other approved location.
  - Electrical Underwriters Certificate is required for all installations.

**S-5 PUMP CHAMBER DETAIL**  
NOT TO SCALE

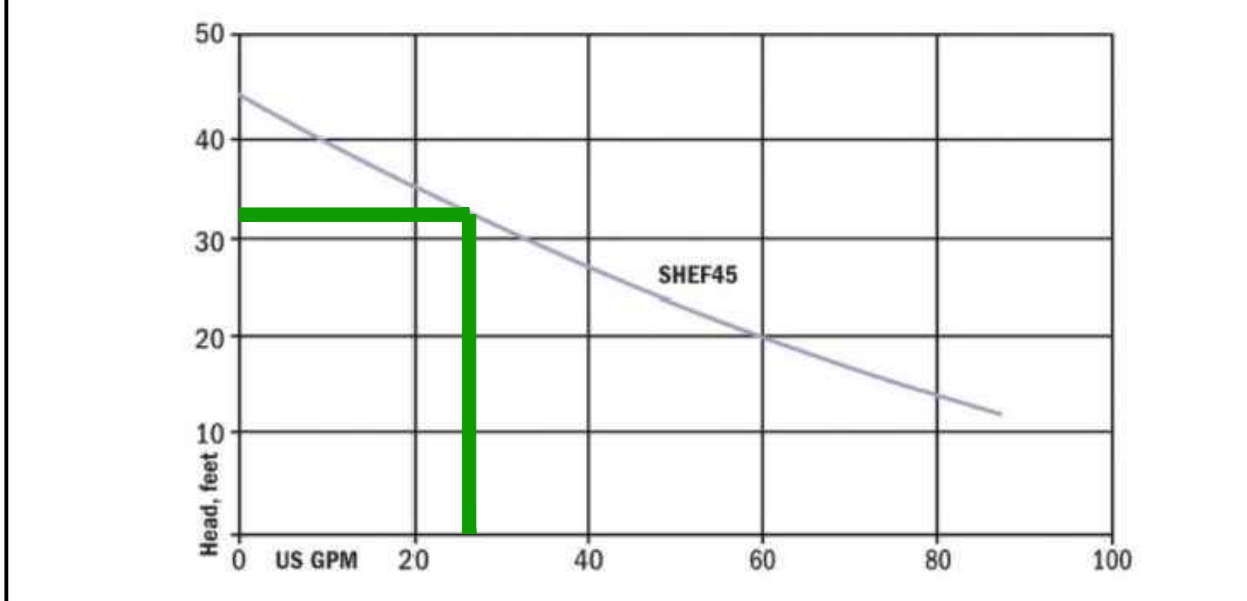


**VOLUME TO BE PUMPED TO SYSTEM:**  
REQUIRED VOLUME = 0.5 GAL. / L.F. X 276 L.F. = 138 GAL.  
BACKFLOW VOLUME = 138 GAL./7.48 GAL./C.F. = 18.45 C.F.  
TOTAL VOLUME PUMPED = 3.14 X .0625' X 325 L.F. = 3.98  
TOTAL VOLUME PUMPED = 18.45 + 3.98 = 22.43 CF  
PUMP CHAMBER INTERIOR DIMENSIONS:  
= 8.0' X 4.33' = 34.67 S.F PER FOOT OF HEIGHT  
THEREFORE, REQUIRED DISTANCE BETWEEN ON/OFF FLOAT SWITCH:  
= 22.43C.F./34.67 S.F. PER FOOT = 0.65' OR 8"  
PUMP CHAMBER STORAGE VOLUME:  
= 34.67 S.F. X 3.5' X 7.48 GAL/CF = 907 GAL. > 715 GAL.



- NOTES:**
- Bottom of junction box must be level and firmly supported below frost line.
  - Junction box footing shall extend to 36" below ground level.
  - Junction boxes shall be placed on single branch distributors.
  - Junction boxes shall be constructed of waterproof masonry construction.
  - Tight joint pipe shall be used between the septic tank and junction box and between all junction boxes and laterals.
  - All pipes connecting to the junction box shall be cut flush with the inside wall.
  - Maximum cover above junction boxes shall be 12 inches.
  - The clear inside dimension of junction boxes shall be a minimum of 12" x 12".
  - All pipes shall be cut flush with inside of junction box.
  - First foot of pipe from junction box to trenches will be non-perforated.

**S-6 JUNCTION BOX DETAIL**  
NOT TO SCALE



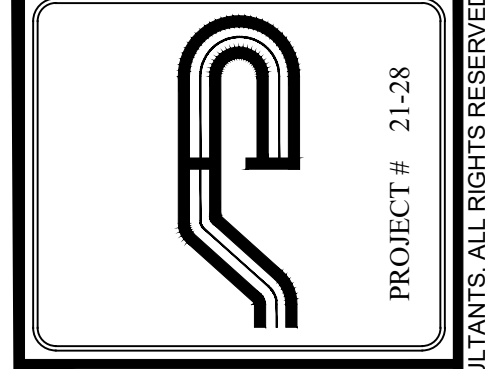
**S-7 PUMP CURVE DETAIL**  
NOT TO SCALE

**S-2 PRECAST CONCRETE SEPTIC TANK DETAIL AND OVERFLOW TANK DETAIL**  
NOT TO SCALE

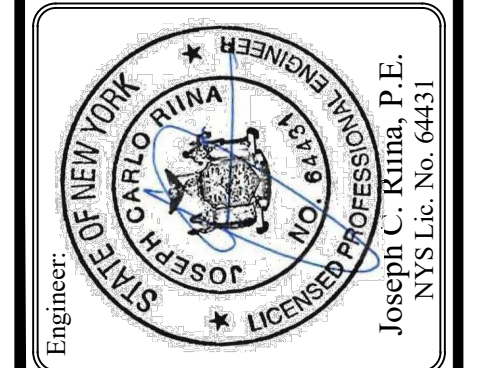
**S-4 PERFORATED PIPE TRENCH DETAIL**  
NOT TO SCALE

**S-5 PUMP CHAMBER DETAIL**  
NOT TO SCALE

**S-7 PUMP CURVE DETAIL**  
NOT TO SCALE



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No.	Date	Comments
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6	10-28-22	Town Comments
7	1-12-23	HD Department
8	4-24-23	HD Department
9	9-28-23	Town Comments
10		
11		

SCALE: AS NOTED  
DRAWN BY: CS  
DATE: 10/01/21

**SEPTIC DETAILS**

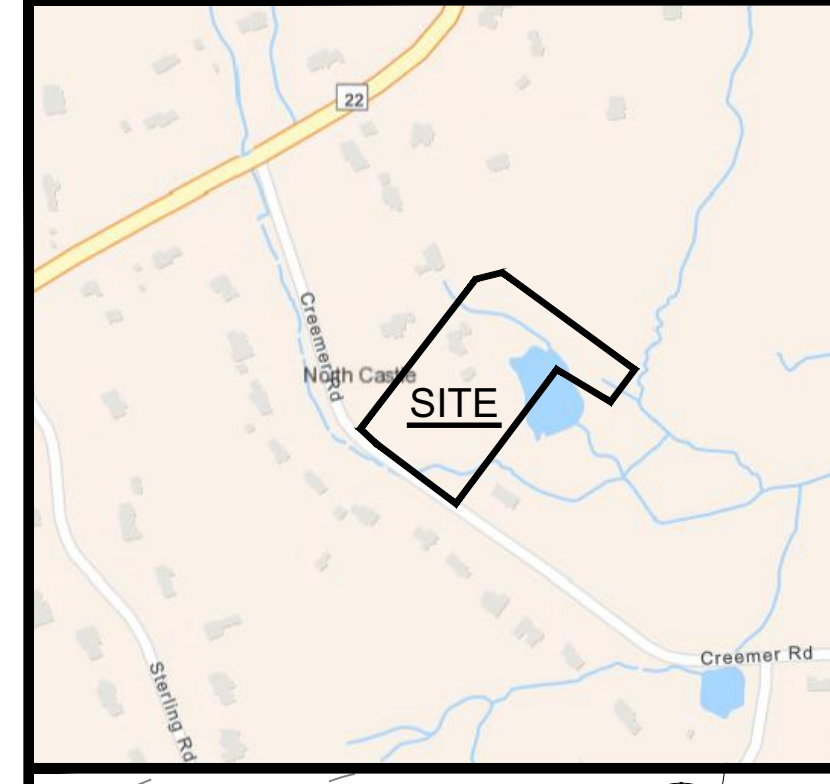
**KEITH ROSENTHAL**  
SITe PLAN PREPARED FOR  
10 CREEMER ROAD  
Westchester County, New York  
Town of North Castle

Sheet 6 of 6

E:\2024\12-28\KEITH ROSENTHAL - 10 CREEMER ROAD, ARMONK\ENGINEERING\CAD\2024\21-28\SEPTIC\SEPTIC SITE PLAN\_21-11-22.DWG, 09/26/2023, 6:53:12 PM

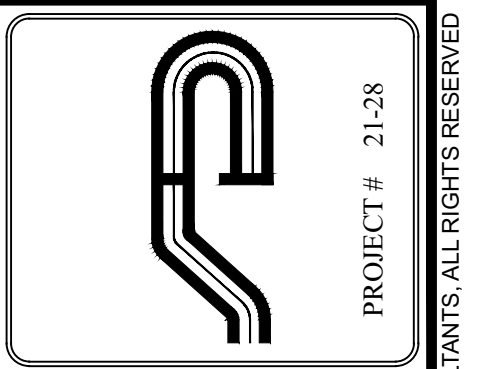
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**SITE DATA:**

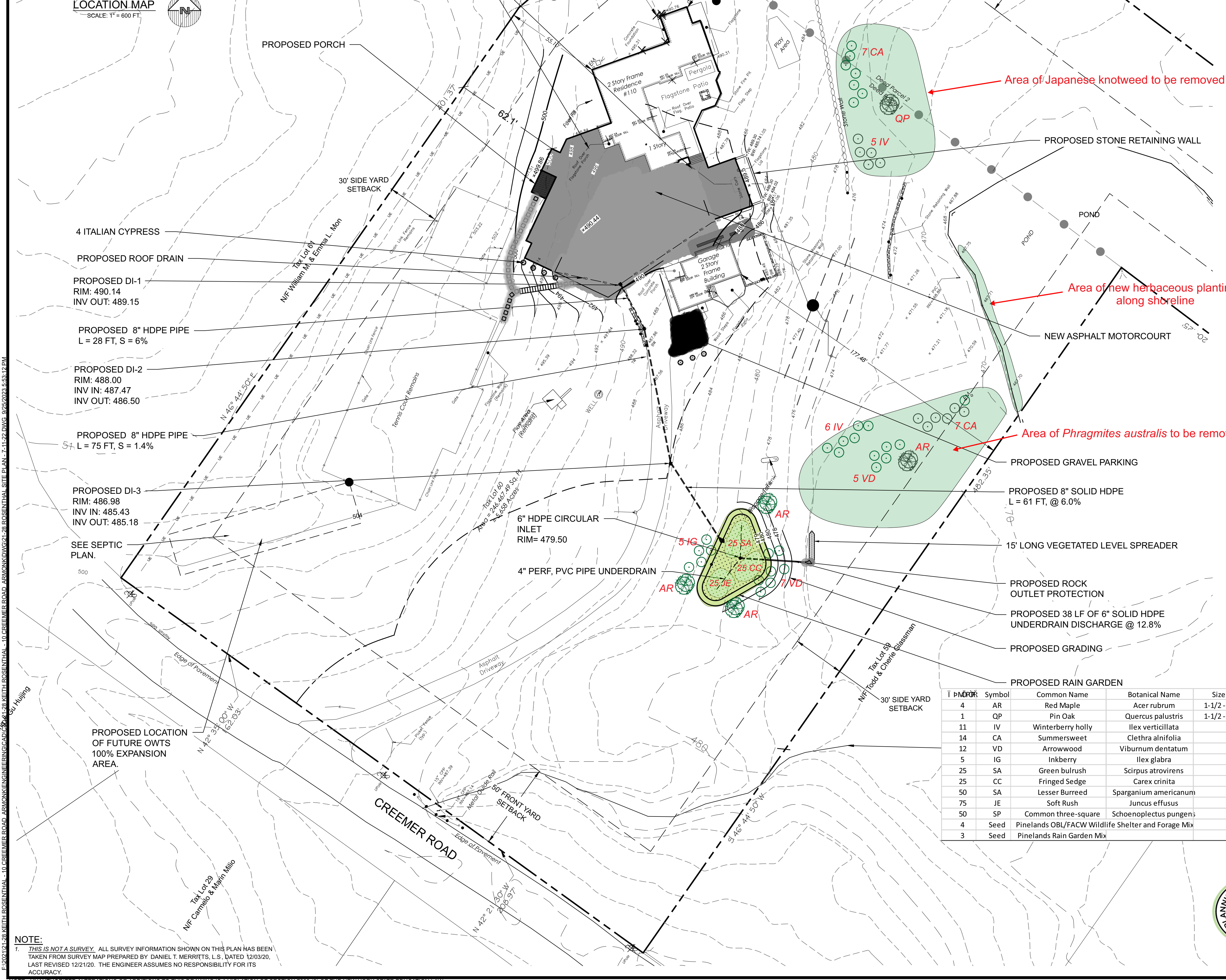
OWNER / DEVELOPER: KEITH ROSENTHAL  
 STREET ADDRESS: 10 CREEMER ROAD ARMONK, NY 10504  
 PROJECT LOCATION: 10 CREEMER ROAD ARMONK, NY 10504  
 EXISTING TOWN ZONING: R-2A SINGLE FAMILY RESIDENTIAL  
 TOWN TAX MAP DATA: SECTION 108.02, BLOCK 2, LOT 60  
 SITE AREA: 5.66 ACRES (246,467 SF)  
 SEWAGE FACILITIES: ONSITE WASTEWATER TREATMENT SYSTEM  
 WATER FACILITIES: DRILLED WELL  
 FIRE DISTRICT: #2  
 SCHOOL DISTRICT: BYRAM HILLS  
 WATERSHED: LONG ISLAND SOUND



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Engineer: Joseph C. Ripina, P.E.  
 NYS Lic. No. 64431

Revisions:	No.	Date	Comments
	1	1-23-21	HD Department
	2	2-14-22	HD Department
	3	3-4-22	HD Department
	4	3-17-22	Plan updates
	5	3-17-22	Plan updates
	6	4-11-22	Plan updates
	7	10-28-22	Plan Comments
	8	1-12-23	HD Department
	9	3-6-23	Additional trees
	10	3-25-24	Final garden plantings



**Invasive Species Monitoring and Control Program**

*Phragmites australis*, Japanese knotweed and multiflora rose are all noted as present within and adjacent to the wetlands on the project site. These invasive species favor areas of disturbed soils and edge areas. This plan will implement an invasive species monitoring and manual control program for the duration of construction and development of the project.

Those areas of the site that are closest to the existing wetlands and watercourses have been disturbed and re-graded over the years. These are the portions of the site that are known to support invasive species which are altering the character of the wetlands and adjacent areas and represent a long term risk to the native vegetative community.

By controlling exotic vegetation, and reducing deer populations due to increased human activity on the site, nearby native plants will have less competition and therefore have more resources available for their own growth. An invasive species monitoring and control program will be implemented at the project site as part of the overall development plan. Species targeted for removal include the following:

- Tree-of-heaven (*Ailanthus altissima*)
- Multiflora rose (*Rosa multiflora*)
- Mugwort (*Artemisia vulgaris*)
- Autumn olive (*Elaeagnus umbellata*)
- Garlic mustard (*Alliaria petiolata*)
- Purple loosestrife (*Lythrum salicaria*)
- Common reed (*Phragmites australis*)
- Oriental bittersweet (*Celastrus orbiculatus*)
- Porcelainberry (*Ampelopsis brevipedunculata*)
- Japanese Barberry (*Berberis thunbergii*)
- Japanese Stilt Grass (*Microstegium vimineum*)
- Winged Euonymus (*Euonymus alatus*)

The above listed species and all other invasive non-native plants that are detrimental to the ecology of the project site will be removed during site development to the extent practicable. The goal of this program is to reduce the presence of exotic/invasive species to a threshold of less than ten percent total cover within the areas shown on the Wetland Restoration and Buffer Enhancement Plan (the "Plan"). A qualified biologist/botanist will supervise the removal of invasive species. These species will be removed by hand or small machine, initially without the application of herbicides. If it is later determined that herbicides are necessary to complete the eradication of the identified species, an application permit will be applied for prior to site use.

**Monitoring and Maintenance Schedule**

Following development of the site, a maintenance plan will include the regular inspection of undisturbed areas as shown on the Plan, and removal of these species as necessary. This represents the transitional areas that are most susceptible to opportunistic settling of invasive species. It is anticipated that a schedule of inspections three times a year for the first five years following full project build out (early, mid and late growing season) will be adequate for the identification and removal of the invasive species in this area.

The Town Building Inspector and Wetlands Inspector will be consulted prior to the proposed removal of invasive species within the controlled area. In addition, all activities related to invasive species control, monitoring and assessment of achievement of the 10 percent tolerance threshold for coverage by all invasive species on the project site will be coordinated with the Environmental Site Monitor. These inspections will include the mapping and identification of locations and extent of cover of invasive species, and identify the methods to be used for the subsequent removal. Following treatment, a brief report outlining extent, location and removal method for each species shall be prepared and filed with the Town Planning Office.

WETLAND 100' ADJACENT AREA DISTURBANCE		
TYPE OF DISTURBANCE	AMOUNT OF DISTURBANCE	PROPOSED MITIGATION
RAIN GARDEN AND DRAINAGE	5,390 SF	SEE MITIGATION PLAN
SEPTIC TANK AND PIPING	660 SF	
ADDITION TO RESIDENCE	350 SF	

EARTHWORK: CUT 315 CY - FILL 755 CY = NET 440 FILL

- SITE PLAN NOTES:**
- THE WETLAND DELINEATION WAS DONE BY STEVE MARINO, PLS OF TIM MILLER ASSOCIATES IN APRIL 21, 2022 AND WAS SURVEYED BY T.C. MERRITTS LAND SURVEYORS MAY 5, 2022.
  - THE WETLAND DELEGATION WAS CONFORMED BY SARA PAWLICZAK BIOLOGIST NYS DEC, DECEMBER 5, 2022.

**PROPOSED RAIN GARDEN**

ID	Symbol	Common Name	Botanical Name	Size	Root type
4	AR	Red Maple	Acer rubrum	1-1/2' - 2"	15 gal
1	QP	Pin Oak	Quercus palustris	1-1/2' - 2"	15 gal
11	IV	Winterberry holly	Ilex verticillata		3 gal
14	CA	Summersweet	Clethra alnifolia		3 gal
12	VD	Arrowwood	Viburnum dentatum		5 gal
5	IG	Inkberry	Ilex glabra		3 gal
25	SA	Green bulrush	Scirpus atrovirens		2" plug
25	CC	Fringed Sedge	Carex crinita		2" plug
50	SA	Lesser Burreed	Sparganium americanum		2" plug
75	JE	Soft Rush	Juncus effusus		2" plug
50	SP	Common three-square	Schoenoplectus pungens		2" plug
4	Seed	Pinelands OBL/FACW Wildlife Shelter and Forage Mix			pounds
3	Seed	Pinelands Rain Garden Mix			pounds

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

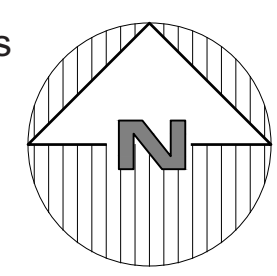
CHRISTOPHER CARTHY, CAHIRMAN,  
 TOWN OF NORTH CASTLE PLANNING BOARD  
 ENGINEERING PLANS REVIEWED FOR CONFORMANCE TO RESOLUTION: \_\_\_\_\_ Date: \_\_\_\_\_

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

**NOTE:**  
 1. THIS IS NOT A SURVEY. ALL SURVEY INFORMATION SHOWN ON THIS PLAN HAS BEEN TAKEN FROM SURVEY MAP PREPARED BY DANIEL T. MERRITTS, L.S., DATED 12/03/20, LAST REVISED 12/21/20. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.



Tim Miller Associates, Inc.  
 Environmental and Planning Services  
 10 North Street, Cold Spring, NY  
 845 265 4400



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 NY's Excavation Code Rule 203 requires you to call before working days notice, but not more than 60 days notice.

WETLAND ENHANCEMENT/RESTORATION PLAN

SITE PLAN PREPARED FOR  
**KEITH ROSENTHAL**  
 10 CREEMER ROAD  
 Westchester County, New York