PROPOSED GRAVEL EXCAVATION

SNAKE MEADOW ROAD & HUBBARD ROAD KILLINGLY, CONNECTICUT

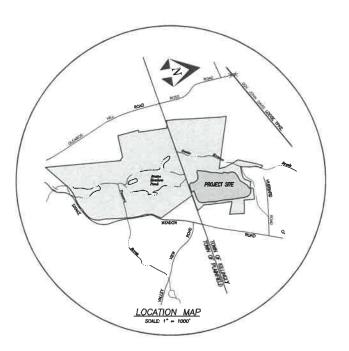
PROPERTY OWNER:

SNAKE MEADOW CLUB, INCORPORATED APPLICANT:

Snake meadow club, incorporated

LEGEND

IRON PIN OR PIPE FOUND
DRILL HOLE FOUND
DRILL HOLE SET
STONE PILE
WIRE FENCE REMAINS
WETLAND FLAG
TEST PIT
EXISTING TREELINE
STONE WALL
STONE WALL REMAINS
EXISTING INDEX CONTOUR
EXISTING CONTOUR
PROPOSED CONTOUR
PHASE LINE
PROPOSED CLEARING LIMITS
PROPOSED SILT FENCE
PROPOSED STAKED HAYBALI
LIMIT OF FLOOD ZONE "A"



PREPARED BY:

Provost & Rovero, Inc. Civil Engineering • Surveying • Site Planning Structural • Mechanical • Architectural Engineering

57 East Main Street, P.O. Box 191 Plainfield, Connecticut 06374 (860) 230-0856 - FAX: (860) 230-0860 info@prorovinc.com www.prorovinc.com

	REVISIONS
DATE	DESCRIPTION
6/12/2020	P&Z COMMENTS
7/15/2020	P&Z COMMENTS
_	

MARCH 20, 2020

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APPROVED BY THE TOWN OF KILLINGLY PLANNING AND ZONING COMMISSION

KGLY PLANNING AND ZONING COMMISSION

Permit No:

Applicant:

ta Approved:

Chairmon:

APPROVED BY THE TOWN OF KILLINGLY INLAND WETLANDS COMMISSION

CHAIRMAN DATE

ANY CHANGES TO THESE PLANS WITHIN 200' OF WETLANDS OR WATERCOURSES MUST BE RESUBMITTED TO THE KILLINGLY INLAND WETLANDS AND WATERCOURSES COMMISSION FOR ITS APPROVAL

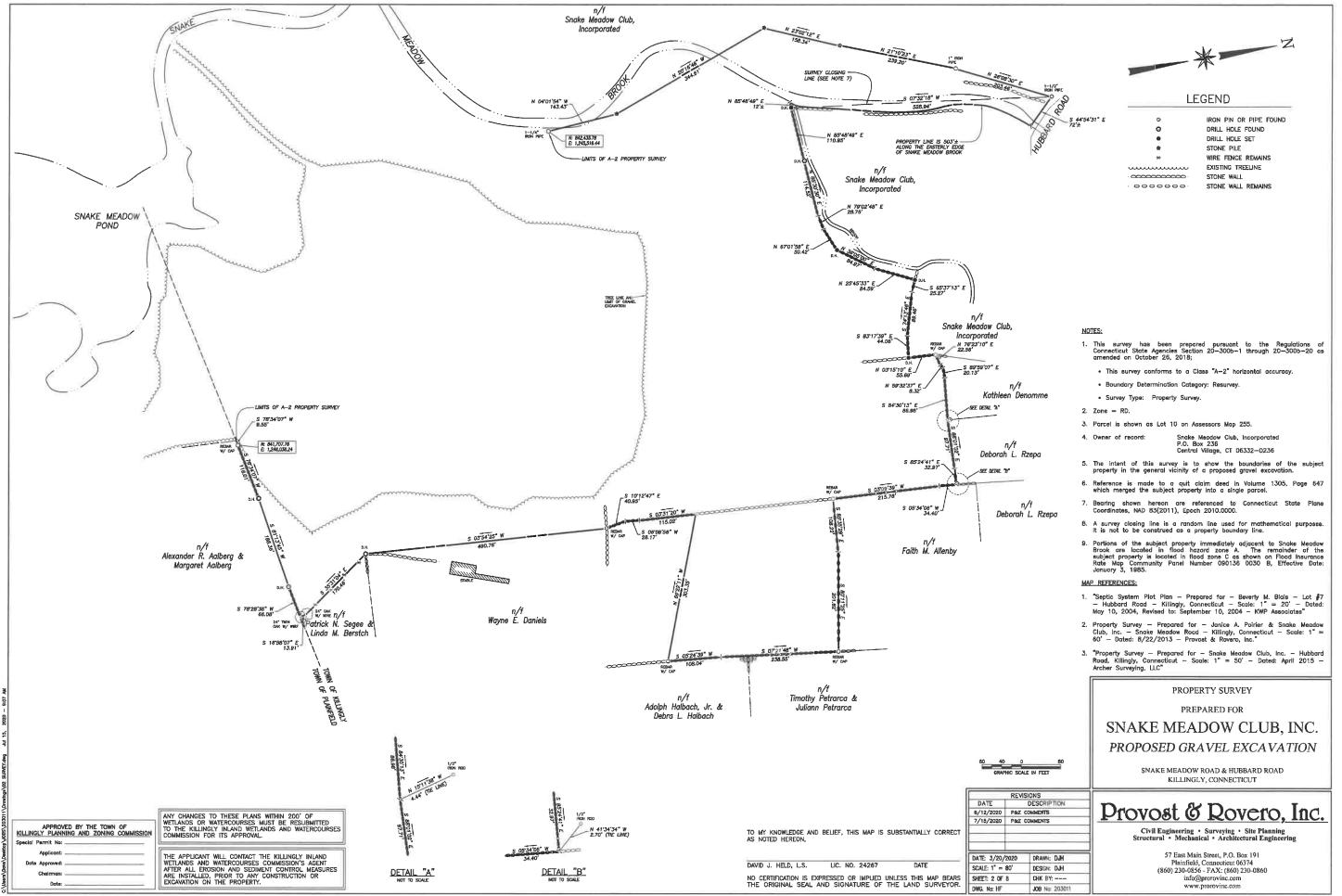
THE APPLICANT WILL CONTACT THE KILLINGLY INLAND
WETLANDS AND WATERCOURSES COMMISSION'S AGENT
AFTER ALL EROSION AND SEDIMENT CONTROL MEASURES
ARE INSTALLED, PRIOR TO ANY CONSTRUCTION OR
EXCAVATION ON THE PROPERTY.

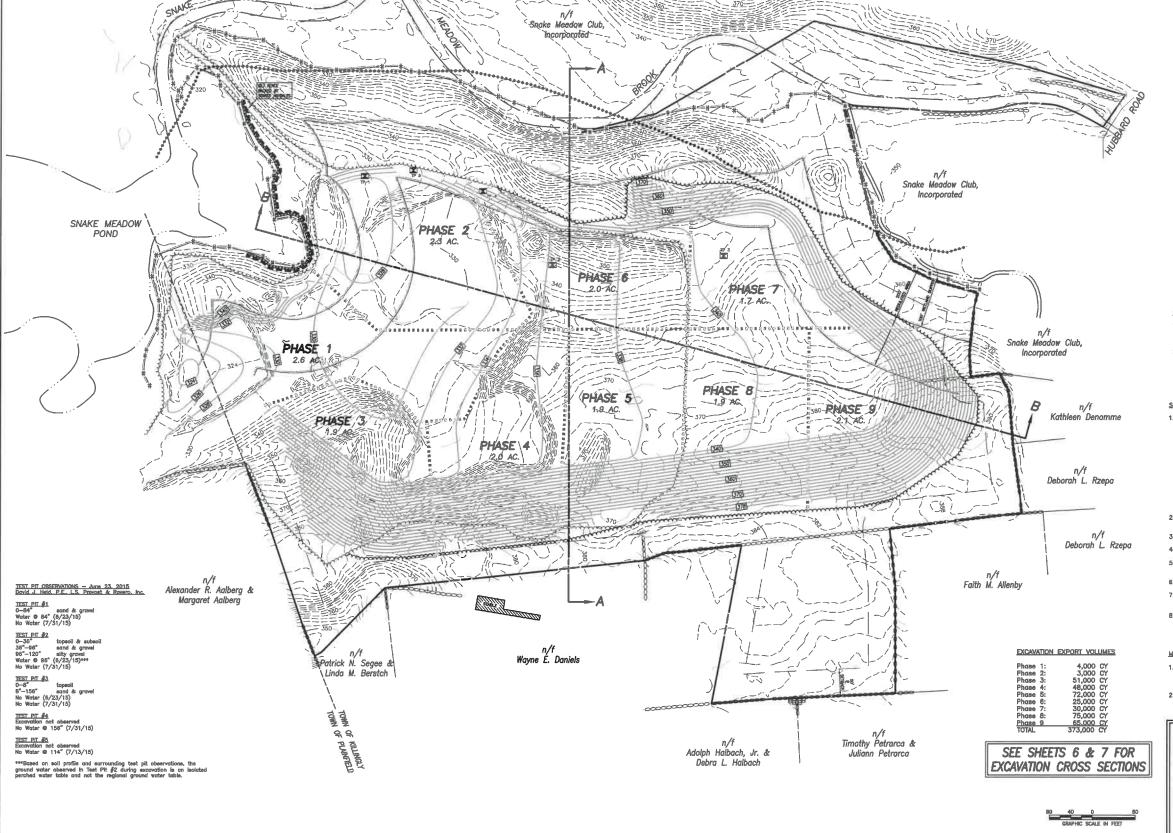
ENGINEER DATE

SHEET 1 OF 8

JOB NO: 203011

DWG NO: HF





ENGINEER

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APPROVED BY THE TOWN OF KILLINGLY PLANNING AND ZONING COMMISSION



IRON PIN OR PIPE FOUND

LEGEND

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DRILL HOLE SET
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LIMIT OF FLOOD ZONE "A"

STORMWATER INSPECTION & MAINTENANCE NOTES:

- The contractor shall review the erosion and sedimentation control narrative and details provided on sheet 8 for inspection and maintenance requirement for temporary erosion and sedimentation control measures.
- 2. The proposed stormwater containment berm to be installed in Phase 1 ash be inspected quarterly of a minimum. In addition, the berm shall be inspected within 48 hours of any rain storm event with precipitation greate than 3° in a 24 hour period. Any areas of observed securing, seepage of other concerns shall be addressed immediately. Any sediment deposition greater than 6° in death shall be removed.

SURVEY NOTES:

 This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 28, 1996;

This map was compiled from record research, other maps, limited field measurements and other sources. It is not to be construed as a Property/Boundary or Limited Property/Boundary Survey and is subject to such facts as sold surveys may disclose.

- This survey conforms to a Class "C" horizontal accuracy. Topographic
- Survey Type: General Location and Topographic Survey
- 2. The intent of this plan is to show project phasing and proposed grading in relation to surrounding properties and site features.
- 3. Zone: RD.
- 4. Owner of record: Snake Meadow Club, Incorporat
- 5. The subject property is shown as Map 255, Lot 10 on Killingly assessor
- 6. Elevations are referenced to the North American Vertical Datum of 1988.
- . Wetlands shown were delineated in the field by Joseph Theroux in the spring of 2015 and are taken from Map Reference #1.
- 8. Limits of flood hazard zone "A" (100 year flood) are taken from Flood insurance Rate Map Town of Killingly, Connecticut Windham County Community Panel Number 080138 0 5036 B Effective Dats January 3, 1985. This is not an elevated flood zone and the limits shown horeove apparent discrepancies with the detailed topographic mapping shown hereon.

MAP REPERENC

REVISIONS
DESCRIPTION

DESIGN: DJH

CHK BY: ---

JOB No: 203011

6/12/2020 PAZ COMMENTS

DATE: 3/20/2020 DRAWN; DJH

SCALE: 1" = RO'

SHEET: 3 OF 8

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT

LIC. NO. 24267

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

DAVID J. HELD. L.S.

- "Property Survey -- Prepared for -- Snake Meadow Club, Inc. -- Hubbard R -- Killingly, Connecticut -- Scale: 1" = 50' -- Dated: April 2015 -- Arcs.
- 2. "Property Survey Prepared for Janice A. Poirier & Snake Meadow Club, Inc. Snake Meadow Road Killingly, Connecticut Scale: 1" = 60" Dated: August 22, 2013 Provost & Rovero, Inc."

OVERALL SITE & PHASING PLAN

PREPARED FOR

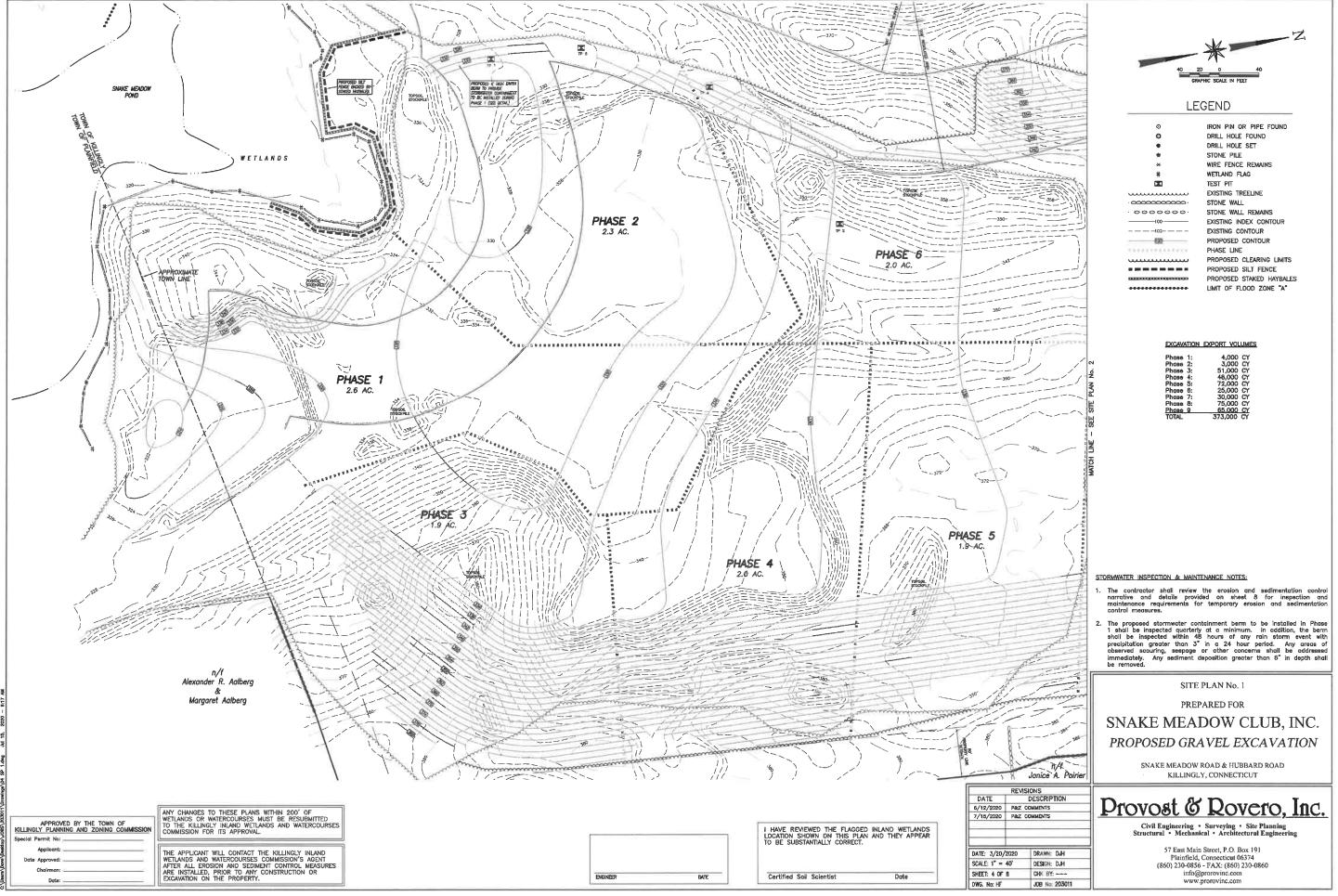
SNAKE MEADOW CLUB, INC. PROPOSED GRAVEL EXCAVATION

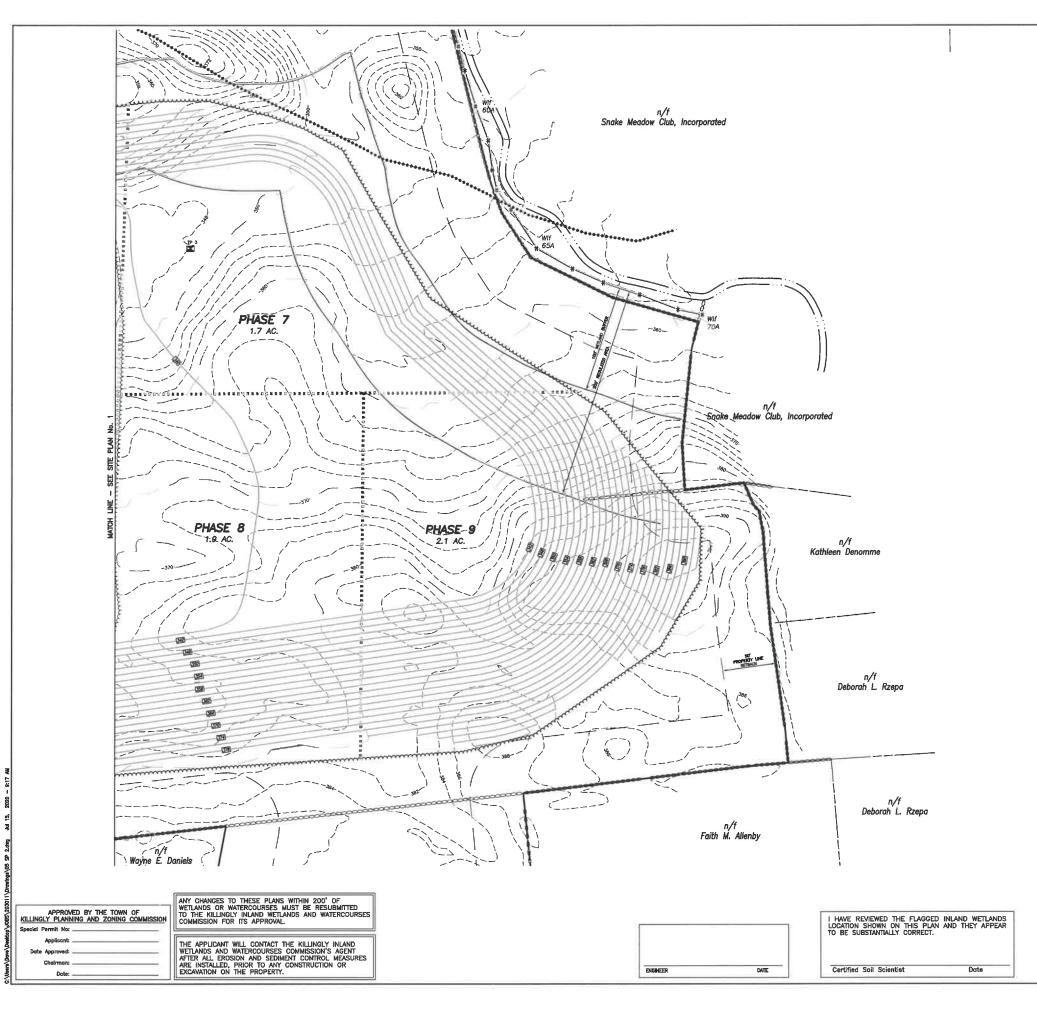
SNAKE MEADOW ROAD & HUBBARD ROAD KILLINGLY, CONNECTICUT

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LEGEND

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DRILL HOLE FOUND
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LIMIT OF FLOOD ZONE "A"

EXCAVATION EXPORT VOLUMES

Phase	1:	4,000	C
Phase	2:	3,000	C
Phase	3:	51,000	
Phase	4:	48,000	C
Phase	5:	72,000	
Phase		25,000	
Phose	7:	30,000	C
Phase		75,000	
Phose	9	65,000	
TOTAL		373,000	CY

STORMWATER INSPECTION & MAINTENANCE NOTE

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- 2. The proposed stormwater containment berm to be installed in Phase 1 shall be inspected quartery at a minimum. In addition, the berm shall be inspected within 48 hours of any rain storm event with precipitation greater than 3" in a 24 hour period. Any areas of observed scouring, seepage or other concerns shall be addressed immediately. Any sediment deposition greater than 5" depth shall be removed.

SITE PLAN No. 2

PREPARED FOR

SNAKE MEADOW CLUB, INC. PROPOSED GRAVEL EXCAVATION

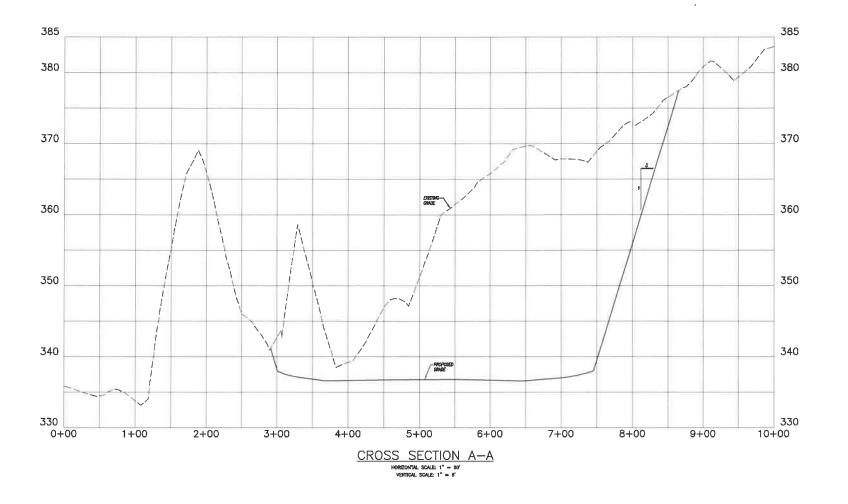
SNAKE MEADOW ROAD & HUBBARD ROAD KILLINGLY, CONNECTICUT

R	REVISIONS
DATE	DESCRIPTION
6/12/2020 P	AZ COMMENTS
7/15/2020 P	&Z COMMENTS:
DATE: 3/20/202	DRAWN: DJH
SCALE: 1" = 40'	DESIGN: DJH
SHEET: 5 OF 8	CHK BY:
DWG. No: HF	JOB No: 203011

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DATE

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APPROVED BY THE TOWN OF KILLINGLY PLANNING AND ZONING COMMISSION

Date Approved:

Chairman:

Date:

EXCAVATION CROSS SECTION A-A

PREPARED FOR

SNAKE MEADOW CLUB, INC. PROPOSED GRAVEL EXCAVATION

SNAKE MEADOW ROAD & HUBBARD ROAD KILLINGLY, CONNECTICUT

| REVISIONS | DATE | DESCRIPTION | 6/12/2020 | PAZ COMMENTS | 7/15/2020 | PAZ COMMENTS | DATE | S/20/2020 | DRAWN: DATE | S/20/2020 | DATE | S/2

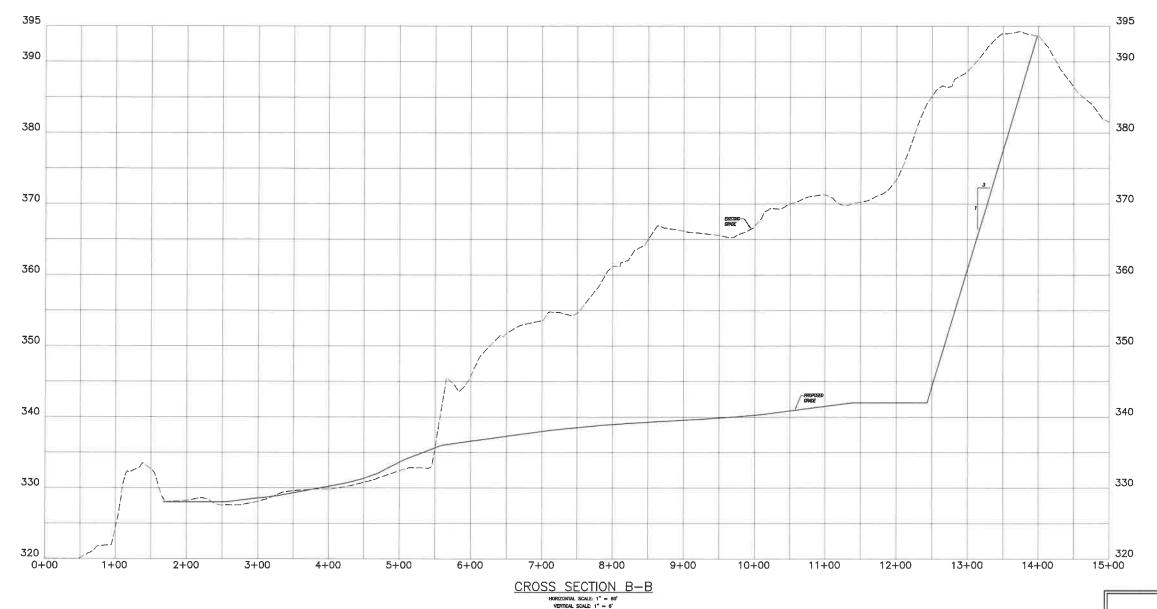
HORIZONTAL SCALE IN FEET

VERTICAL SCALE IN FEET

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ENGINEER

DATE

VERTICAL SCALE IN FEET

EXCAVATION CROSS SECTION B-B

PREPARED FOR

SNAKE MEADOW CLUB, INC. PROPOSED GRAVEL EXCAVATION

> SNAKE MEADOW ROAD & HUBBARD ROAD KILLINGLY, CONNECTICUT

	REVIS	
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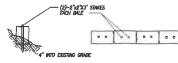
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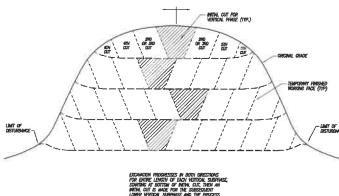
Chairman:

Date: _

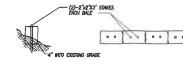
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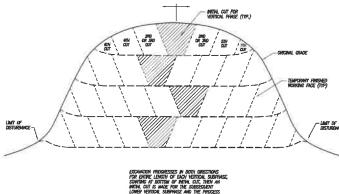
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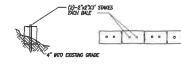




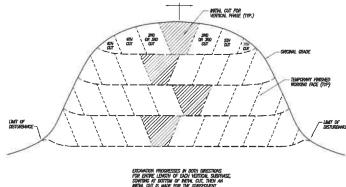
SILT FENCE



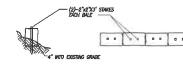


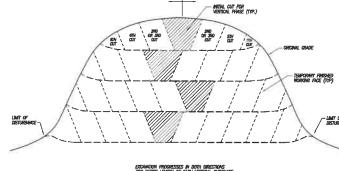


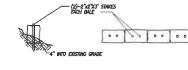
HAYBALE BARRIER

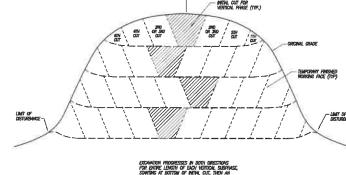


DETAIL SHOWING "DOWNCUTTING" EXCAVATION METHOD









On—eits processing of material shall be limited to dry screening. No processing equipment shall be placed or used within 200' of any property boundary or within 500' of any residence.

10. The hours of operation shall be: 7:00 am - 6:00 pm, Monday - Friday 7:00 am - 12:00 pm, Saturday Saturday on relational holidays. Operations outside of the normal hours will be allowed only with the permission of the Killingly Planning & Zoning Commission.

The owner/operator shall install any necessary barricades or barriers to provide protection around the perimeter of open excavation faces and steep slopes.

active excavation face at a lower elevation than the surrounding grades. If any perimeter erosion and sedimentation controls are required to prevent transport of sediment lader stormwater from the active area, they shall be installed prior to excavation and maintained until no founder required.

No blasting is anticipated for completion of the work shown. If blasting is required, the owner is responsible for obtaining all necessary permits.

The intended use for the permitted area following completion of excavation is managed upland game bird and other wildlife habitat.

- Restoration of each phase shall take place immediately following the completion of excavation of the phase. It is the intention that Phases 1 and 2 be restored to the extent possible prior to continuing excavation of the active face in Phase 3. The site operator shall maintain haul roads and a sufficient work area to continue excavation into future phases.
- Final restoration shall be accomplished by spreading stockpiled topsoil, subsoil and/or other growing medium to a minimum thickness of 5° and seeding for a permanent vegetative cover. The permanent vegetative cover may be a suitable widther or game bird habitet mix or the following mixture which is suitable for use in all locations:

Voriety	Lbs/Acra
Switchgrass (Blackwell, Shelter, Cave-in-rock)	4.0
Big Bluestern (Nlagra, Kaw)	4.0
Little Bluestern (Blaze, Aldous, Camper)	2.0
Sand Lovegrass (NE-27, Bend)	1.5
Bird's-foot Trefoil (Empire, Viking)	2.0
	TOTAL 13.5

- Hay or straw mulch shall be utilized on 3:1 excavation side slopes to provide temporary stabilization during establishment of permanent vegetative cover.
- Fertilizer and lime shall be provided as required to establish a permanent vegetative cover based on laboratory soil testing results.

- The following equipment is the unticipated maximum for use on site during the duration of excavation and restoration operations:

CONTINUENT EIREM SIMIL DE INSPECTED FOLLOWING ANY RAWFUL EVENT ORGUTER THAN 3" IN A 24 HOUR PERIOD OR AT A MINIMAN ON A GUARTERLY BASS. ACCUMULATED SERMENT SHALL DE REMONED WHEN IT EXCESSES A DEPTH OF A" AT THE REMU

CONTAINMENT BERM CROSS SECTION

Apply the chosen gross seed mix. The recommanded seeding dates are: April 1 to June 15 & August 15 - October 1.

Date Approved:

Chairman:

Date:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

The primary function of erosion and sediment controls is to absorb erosional energies and reduce runoff velocities that force the detachment and transport of soil and/or encourage the deposition of aroded soil particles before they reach any sensitive area.

- Route traffic patterns within the site to avoid existing or newly planted vegetation.

Clean runoff should be kapt separated from sediment loden water and should not be directed over disturbed areas without additional controls. Additionally, prevent the mixing of clean off-eits generated runoff with sediment loden runoff generated on-eits until after adequate filtration of on-eits waters has occurred.

While it may seem less complicated to collect all waters to one point of discharge for treatment and just install a perimeter control, it can be more effective to apply internal controls to many small sub-drainage bosins within the site. By reducing sediment loading from within the site. By reducing sediment loading from within the site, the choices of perimeter control failure and the petential off-site damage that it can cause is reduced. It is generally more expensive to correct off-site damage than it is to install proper internal controls.

Grade and landscape around buildings and septic systems to divert water away from them

Excavation shall be completed in accordance with the phasing plan contained herein. Prior to the start of sand and gravel removal, any topsoil and subsoil shall be stripped and stockpiled within or adjacent to the respective phase for use in restoration. Topsoil and subsoil stockpiles which is protected with a temporary or permanent vegetables cover. The selection of an appropriate vegetables cover. The

Work shall begin with the final grading and restoration of phases 1 and 2. Phases 1 and 2 shall be brought to final grade and prepared with 6 inches of growing medium prior to any work in subsequent phases. Seed and mulch shall be applied to phases 1 and 2 during the first available spring or fall planting season to establish a permonent vegetative cover. The Intent of this work is to reduce the disturbed, unrestored area on the site to a maximum of 3 acres as quickly as possible. Adjacent disturbed portions of phases 3 and 4 shall be included in the initial stage of final grading and restoration as necessary to meet the 3 acre maximum disturbed area requirement. Any material excevated during this initial stage of final grading and restoration as necessary to meet the 3 acre maximum disturbed area requirement. Any material excevated during this initial stage of final grading and restoration shall be from the estating excevation bank working face. After this initial site restoration, the disturbed, unrestored site area shall be limited to a maximum of 3 acres which disturbance shall be wholly contained within one contiguous area.

No topsoil or subsoil stripped from the excavation area shall be sold or removed from the property.

Excevation of each phase shall be completed in a manner which ensures containment of aediment loaden stormwater within the active excevation area. In general, this can be accomplished by progressing with a "downcutting" excevation method and maintaining a

- Segregate construction waters from clean water

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APPROVED BY THE TOWN OF KILLINGLY PLANNING AND ZONING COMMISSION

EROSION AND SEDIMENT CONTROL PLAN:

4. Inspect and repair barrier after heavy rainfall.

HAY BALE INSTALLATION AND MAINTENANCE:

TEMPORARY VEGETATIVE COVER:

SEED SELECTION

SITE PREPARATION

2. Soil Survey of Connecticut, N.R.C.S.

1. Connecticut Guidelines for Soll Erosion and Sediment Control 2002 (2002 Guidelines).

3. Lay the bottom 6" of the fabric in the trench to prevent undermining and backfill

Inspections will be made at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater to determine maintenance needs.

Replace or repair the fence within 24 hours of observed failure. Failure of the fence has occurred when sediment fails to be retained by the fence because: the fence has been overstopped, underruit or bypessed by runoff water, the fence has been moved out of position (knocked over), or the gootextile has decomposed or been domaged.

Bales shall be placed as shown on the plans with the ends of the bales tightly abutting

Each bale shall be securely anchored with at least 2 stakes and gaps between bales shall be wedged with straw to prevent water from passing between the bales.

 Remove sediment behind the bales when it reaches half the height of the bale and deposit in an area which is not regulated by the inland Wetlands Commission. Replace or repair the barrier within 24 hours of observed failure. Failure of the barrier has occurred when sediment fails to be retained by the barrier because:
 the barrier has been overlopped, undercut or bypased by runoff water,
 the barrier has been moved out of position, or
 the hary bales have detained to a domaged.

Grass species shall be appropriate for the season and site conditions. Appropriate species are outlined in Figure TS-2 in the 2002 Guidelines.

Loosen the soil to a depth of 3-4 inches with a slightly roughened surface. If the area has been recently loosened or disturbed, no further roughening is required. Soil preparation can be a buildozen disciple, horovaling, ruling or draggling with a section of chips of the section of the sec

Inspect seeded area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for seed and mulch movement and rill erosion.

Refer to Permonent Seeding Measure in the 2002 Guidelines for specific applications and details related to the installation and mintenance of a permanent vegetative cover. In general, the following sequence of operations shall apply:

Once the growing medium has been aprood, all stones 2' or larger in any dimension will be removed (unless desired for landacape aesthetica) as well as debris which would hinder the establishment and maintenance of permanent vegetation.

Apply agricultural ground limestone at a rate of 2 tons per acre or 100 lbs. per 1000 s.f.
Apply 10-10-10 fertilizer or equivalent at a rate of 300 lbs. per acre or 7.5 lbs. per
1000 s.f. or as otherwise determined by laboratory soil tests. Work lims and fertilizer into
the soil to a depth of 4.

1. Dig a 6" deep trench on the uphill side of the barrier location.

REFERENCE IS MADE TO:

PREPARED FOR SNAKE MEADOW CLUB, INC.

PROPOSED GRAVEL EXCAVATION

DETAIL SHEET

SNAKE MEADOW ROAD & HUBBARD ROAD KILLINGLY, CONNECTICUT

DATE 6/12/2020 7/15/2020	DESCRIPTION PAZ COMMENTS PAZ COMMENTS	Provost & Rovero, Inc.
17 10, 2020	rec community	Civil Engineering • Surveying • Site Planning Structural • Mechanical • Architectural Engineering
DATE: 3/20/2 SCALE: AS SHO		57 East Main Street, P.O. Box 191 Plainfield, Connecticut 06374 (860) 230-0856 - FAX: (860) 230-0860
SHEET: 8 OF 8 DWG. No: HF	JOB No: 203011	info@prorovinc.com www.prorovinc.com

REVISIONS