

30+91

SMAKE MEADOW CLUB, INC. GRAVEL OPECATIONS

Ann-Marie Aubrey

From: David Held <dheld@prorovinc.com>
Sent: Priday, June 12, 2020 11:13 AM

To: Ann-Marie Aubrey

Cc:kbrignole@spauldingagents.comSubject:Snake Meadow Club gravel application

Attachments: 203011 plans rev 6-12-20.pdf; AERIAL MAP.pdf; setback waiver.pdf; volume

1305-647.pdf

Hi Ann-Marie,

Per our conversation this morning, the attached plan revisions and documents address the comments from the last P&Z meeting. As discussed, we will be asking to continue the public hearing following the presentation of the revised materials because the wetlands commission has not yet met to act on our request to extend the existing wetlands permit. I believe that with the 90 day timeline extension per the executive order there won't be any need for an extension letter to continue the hearing but if you find you need one, I can provide it.

The attached materials address the following:

- 1. 6" of planting medium is now specified for site restoration on sheet 8.
- 2. The 50' setback line has been shown on sheets 3-5. Because of proposed work within 50' of the common boundary between two parcels owned by the applicant, we have provided the attached declaration regarding setback waivers, an executed copy of which will be filed on the land records upon approval of the project. By way of this correspondence, we are formally requesting a waiver of the setback requirement as it relates to any common boundaries of properties owned by the applicant.
- 3. The attached deed shows the parcel merger per the 2015 approval on this site.
- 4. Sediment removal requirements (6" depth) have been added to the maintenance notes on sheets 3-5 as well as the containment berm detail on sheet 8.
- 5. A maximum open area of 3 acres and 2 phases has been specified in the notes on sheet 8. This would take effect after the completion and restoration of the initial phases since approximately 8 acres are currently open.
- 6. The aerial map shows existing conditions around the perimeter of the project as well as any buildings, etc. in the vicinity. The aerial photo is from 2016 but I don't believe there are any changes around the property perimeter.
- 7. The applicant would like to get the existing \$10,000 cash bond returned and provide passbook to the town for \$15,000.00 to cover the bonding requirements.

Please let me know if you need anything else.

Thanks.

David J. Held, P.E., L.S. Provost & Rovero, Inc. 57 East Main Street P.O. Box 191 Plainfield, CT 06374 Phone (860) 230-0856 Cell (860) 234-3183 Fax (860) 230-0860 dheld@prorovinc.com www.prorovinc.com

1

Receipt # 70855 Instr # 2016-01719

Local Tax \$0.00 State Tax \$0.00 08/02/2016 02:54:09 PM 4 Pages QUIT CLAIM TOWN OF KILLINGLY Elizabeth M. Wilson, Town Clerk

VOL 1305 PG 647

QUIT CLAIM DEED - STATUTORY FORM

KNOW ALL YE MEN BY THESE PRESENTS THAT,

SNAKE MEADOW CLUB INCORPORATED, a Connecticut Non-stock Corporation having a principal place of business at 561 Snake Meadow Road, Plainfield, Connecticut, for One (\$1.00) Dollar and other good and valuable considerations received to its full satisfaction SNAKE MEADOW CLUB INCORPORATED of Plainfield, Connecticut, do remise, release and forever QUIT CLAIM unto the said SNAKE MEADOW CLUB INCORPORATED, as Grantee, with QUIT-CLAIM COVENANTS upon the Statutory Condition, the following property,

That certain piece or parcel of land, known and designated as 567 Hubbard Road, Danielson (Town of Killingly), Connecticut, which premises are more particularly bounded and described in Schedule A, attached hereto and incorporated herein by reference thereto.

The purpose and intent of this Instrument is to merge the within described premises with other property of the Grantee located in the Town of Plainfield, and being more particularly described in Volume 44 at Page 239, and in Volume 75 at Page 546 of the Plainfield Land Records, to which reference may be had, such that the within described premises shall not be hereafter separately conveyed.

This Instrument is executed in duplicate to facilitate recording.

The circumstances surrounding the execution and delivery of this instrument are such that no conveyance tax is required.

Signed this 9th day of May, 2016.

Signed, sealed and delivered in the presence of:

Garon Camassar - Witness

After recording ret. to:

Garon Camassar 181 Broad Street New London, CT 06320

Backy Fuller-Witness

SNAKE MEADOW CLUB

By: Kevin Brignole
Duly Authorized

DUBICKI & CAMASSAR, LLP Attorneys At Law 181 Broad Street, New London, CT 06320 (860) 443-1864 (860) 443-7023 Fax

Snake Meadow to Snake Meadow .StatQC

STATE OF CONNECTICUT)	
) ss: New London	May 9, 2016
COUNTY OF NEW LONDON)	, .

On this, the 9th day of May, 2016, before me, the undersigned officer, personally appeared Kevin Brignole of SNAKE MEADOW CLUB INCORPORATED, a Connecticut Non-stock Corporation, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, who acknowledged that he executed the same for the purposes therein contained as his free act and deed, as Past President and Director, aforesaid and as the free act and deed of said Corporation.

Garon Camassar

Commissioner of the Superior Court

DUBICKI & CAMASSAR, LLP Attorneys At Law 181 Broad Street, New London, CT 06320 (860) 443-1864 (860) 443-7023 Fax

Snake Meadow to Snake Meadow .StatQC



SCHEDULE A

377 Snake Meadow Road, Plainfield, Connecticut

(located at Danilecen, in said Town of Killingly, do give, grant, bargain, sell and confirm unto

the said .. Snake Meadow Club, Incorporated, Six certain tracts or parcels of land situated in the Towns of Plainfield and Killingly in said Windham County, and bounded and described as follows, to wit:

FIRST TRACT. A certain tract or parcel of land with all the buildings there—
on standing, wituated in said Town of Plainfield and counsed and seccribed as follows, to wit;

Beginning at the south side of Mill Bridge, in the center of Snake Meadow Brook, thouse running mortherly by the center of said brook 23 rods off; thence westerly about 17 rods to a stake and stones; thence southerly about 28 rods to a heap of stones on the top of a rock; thence southerly about 9 rods of to the corner of a wall adjoining land now or formerly of heirs of Harry W. Hill; thence easterly about 27 rods to the first mentioned bound; together with such flowage privilages as now are in existance in connection with the water privilage upon this tract, which original flowage privileges were reserved in a deed from Arnold H, Harrington to March JSIdriage dated December 24, 1870, and recorded in Flainfield Lana Rocords in Vol.

SECOND TRACT: being a part of the farm formerly known as the Cime, a Sunderson farm, situated in the northerly part of sais Town of Flianfield on the Pond Mill Sond, so-celled, and bounded and decorabed as follows, to wit; Situated on the casterly side of said nighway known as the Fond Mill Road and bounded westerly by said highway, northerly by nighway leading from the first mentioned nighway to the dwelling house now or formerly of Menry L. Simulating; causterly by land now or formerly of said Spaulating, in old road and land now or formerly of Sussell Mill, and southerly by land formerly of said Hill.

and Junes W. Brown to Charles Danuercau, dated October 8. 1909 and recorded in Pluinfield Lund

Repords, Vol. 31. at page 310.

THIRD TRACT: Being a part of said Charles A. Sanderson farm no-called, situated vesterly of said fond Hill Road bounded easterly by said highway and land now or formerly of Russell Hill mortherly by land formerly of said Hill; westerly by Snake Mendow Brook and southerly by the highway leading westerly from said Pond Hill Road to the Squar Rock Farm, no-called; FOURTH TRACT: Menny a part of said Charles A. Sanderson furm, no-called, pituated westerly of

said Fond Hill Road, bounded easterly by waid highway; northerly by waid highway running from waid Fond Hill Road to the Squar Rock Farm; costerly by Snake Ecadow Brook and Southerly by lund formerly of Charles A. Sanderson (Herainafter Asserbed as the Fifth Trust) and said Pond Hill Road.

FIFTH TRACT: A small tract of land situated on the vesterly side of said Pond Hill Road and is sounded and described as follows; Beginning at the northerly end of the bridge over Shake Ecanow Brook on the westerly side of said highway to the Fourth Tract just above accorded; income westerly to the ematerly bank of said brook; thence on said brook to the first mentioned bound. The above mentioned Second , Third, Fourth and Fifth Tracts on the same described in a warranty deed from Carrie Bell Karjuherm to Charles Dancersau, suited July 28 .1915 and recorded in Plainfield Land Records, Vol. 35, at lags 113.

SIXTH TRACT: A certain tract of land situated in the Towns of Killingly and Plainfield and bounded and described as follows, to wit: Beginning at the northwest corner of said tract at a neap of stones at a large White Cak tree new or formerly stonding; thence running cauterly 986 feet bounding northerly on land formerly of Albert Easton to a white out tree marked now or formerly standing; thence easterly \$50 feet bounding northerly on land now or formerly of Juchua Rood to a pile of stones; thence southeasterly 764 feet bounded on land now or formerly of petsy fileox to a cend in the wall; thence southeasterly 100 feet on said land

377 Snake Meadow Road, Plainfield, Connecticut (cont)

now or formerly of said Betsy Wilcox to a corner of wall; thence southerly on land now or formerly of Peter Hogan to a pile of stones; thence westerly 196 feet on land formerly of Rusnell Hill to a pile of stones; thence westerly 196 feet on land formerly of said Hill to a pile of stones; thence westerly 324 feet on said land now or formerly of said Hill to the middle of Snake Meadow Brook; thence seath these Sanderson to a pile of stones; thence Bouthwesterly 342 feet on land formerly of Charles Sanderson and crossing Mill Road to a pile of stones; thence Bouthwesterly 487 feet on said land formerly of said Sanderson and crossing Mill Road to a pile of stones; thence westerly on said land formerly of said Sanderson to a corner of wall; thence bounded westerly on land formerly of Edward Rivers and land formerly of Jeremian Hill to point of beginning; being the same premises described in a warranty deed from Hermidas Couture to Charles Danceroau dated May 14. 1923 and recorded in Plianfield land Records in Vol.

Being the same premises described in a warranty deed from Charles L.

Torrey to John B. Sussett dated September 21st. 1925 and recorded in Plainfield land Records Book 43 at pages 142, 143. and 144. and recorded in Killingly Land Rocords Book 79 at page 55.

567 Hubbard Road, Danielson (Town of Killingly), Connecticut

"Commencing at a point on the easterly bank of Snake Meadow Brook in the southeasterly line of Hubbard Hill Road at the northwesterly corner of land now or formerly of Onnie A. Johnson and Helvi Johnson; thence south-southwesterly along the easterly bank of said Brook 520 feet, more or less, to a point; thence easterly 27 feet, more or less, to a stone wall intersection; thence S. 79 degrees 43' E. 260 feet, more or less, along stone wall to a point; thence N. 88 degrees 15' B. 22.76 feet along stone wall; thence N. 80 degrees 58' E. 46.91 feet along stone wall; thence N. 50 degrees 06' E. 82.86 feet along stone wall; thence N. 40 degrees 13' B. 84.0 feet along stone wall to a wall corner; thence S. 51 degrees 20' E. 29.74 feet along stone wall; thence S. 59 degrees 30' E. 87.87 feet along stone wall; thence S. 70 degrees 30' E. 42.56 feet to a corner of stone wall and land now or formerly of David B. and Agnes J.

Starkweather; the last ten (10) courses being along said Johnson land; thence S. 18 degrees 25' W. 262.17 feet along stone wall; thence S. 17 degrees 58' W. 750.34 feet along stone wall to a wall corner and land of Snake Meadow Club, Inc., the last two courses being along said Starkweather land; thence N. 52 degrees 20' W. 85.34 feet along stone wall; thence N. 29 degrees 39' W. 47.13 feet along stone wall; thence N. 39 degrees 06' W. 378.41 feet along stone wall to end of stone wall; thence N. 37 degrees 40' W. 128.94 feet to an iron pin on the easterly bank of Snake Meadow Brook; thence N. 19 degrees 38' E. 143.75 feet along the east side of said Brook to a pile of stones between two rocks; thence N. 5 degrees 43' W. 344.35 feet crossing said Brook to an ancient bound; thence N. 37 degrees 14' E. 157.75 feet to a pile of stones; thence N. 36 degrees o1' E. 239.72 feet to an iron pin in a ditch; thence N. 40 degrees 43 E. 203.7 feet along said ditch to an iron pin in the southwesterly line of Hubbard Hill Road; thence in a southeasterly direction by a curve to the left along said Hubbard Hill Road 66 feet, more or less to the point and place of beginning. Containing 11.5 acres, more or less.

DECLARATION OF SETBACK WAIVER

This Declaration of Setback Waiver ("Declaration") made this _____ day of June, 2020 by Snake Meadow Club, Incorporated ("SMC"),

Whereas SMC is the owner of the following properties in the town of Killigly ("SMC Properties"):

- 1. 377 Snake Meadow Road (Map 267, Lot 1)
- 2. 561 Hubbard Road (Map 255, Lot 9)
- 3. 567 Hubbard Road (Map 255, Lot 10)
- 4. 571 Hubbard Road (Map 255, Lot 11)

Whereas SMC may apply for permits that authorize it to excavate and remove sand gravel and other earth products from the SMC Properties.

Now therefore, SMC declares the following:

- 1. SMC shall allow excavation and removal of earth products up to and over any common boundary of the SMC Properties.
- 2. The final grade along any common boundary of the SMC Properties shall be that grade determined by SMC to be in its best interest and as authorized in any permits for excavation.
- 3. This Declaration and all rights, obligations and privileges herein granted, including all benefits and burdens, shall run with the land and shall inure to the benefit of and shall be binding upon the successors and assigns of SMC for any of the SMC Properties.
- 4. This Declaration may be amended or modified only upon the written consent of SMC and the successors and assigns for any of the SMC Properties.
- 5. In the event any provision of this Declaration shall be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.
- 6. This Declaration shall be governed in all respects by the laws of the State of Connecticut without regard to the principles of conflict of laws.
- 7. If any action at law or equity is necessary to enforce or interpret terms of this Declaration, the prevailing party shall be entitled to reasonable attorneys' fees, costs and necessary disbursements in addition to any other relief to which such party may be entitled.
- 8. All claims or controversies arising out of or related to this Declaration shall be submitted to and resolved by binding arbitration. The American Arbitration Association shall conduct the arbitration unless the parties mutually agree to use an alternative arbitration service and the costs of the arbitration shall be borne equally by the parties.

IN WITNESS WHEREOF, the party hereto has executed this Declaration as of the date set forth in the first paragraph hereof.

Snake Meadow Club, Incorporated	Subscribed and sworn to me on the day of June, 2020
Ву:	
Name: Kevin Brignole Its: Treasurer	Notary

ELEI-08 *

HODGONAL SUBMITTEN

PROPOSED GRAVEL EXCAVATION

SNAKE MEADOW ROAD & HUBBARD ROAD KILLINGLY. CONNECTICUT

PROPERTY OWNER:

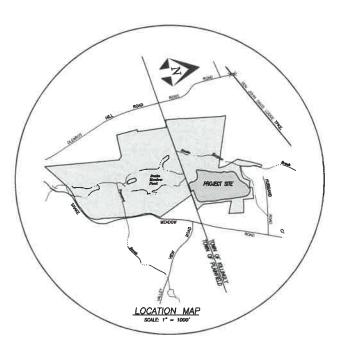
Snake meadow club, incorporated

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 . 0000000 STONE WALL REMAINS EXISTING INDEX CONTOUR -----EXISTING CONTOUR PROPOSED CONTOUR (739 PHASE LINE PROPOSED CLEARING LIMITS wwwwwww PROPOSED STAKED HAYBALES ******* 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	

MARCH 20, 2020

INDEX TO DRAWINGS

TITLE	S	EE	No.
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SITE PLAN No. 2	5	OF	8
EXCAVATION CROSS SECTION A-A	6	OF	8
EXCAVATION CROSS SECTION B-B	7	OF	8
DETAIL SHEET	8	OF	8

APPROVED BY THE TOWN OF KILLINGLY PLANNING AND ZONING COMMISSION Special Permit No:

Applicant:

AND ZONING COMMISSION

APPROVED BY THE TOWN OF
KILLINGLY INLAND WETLANDS COMMISSION

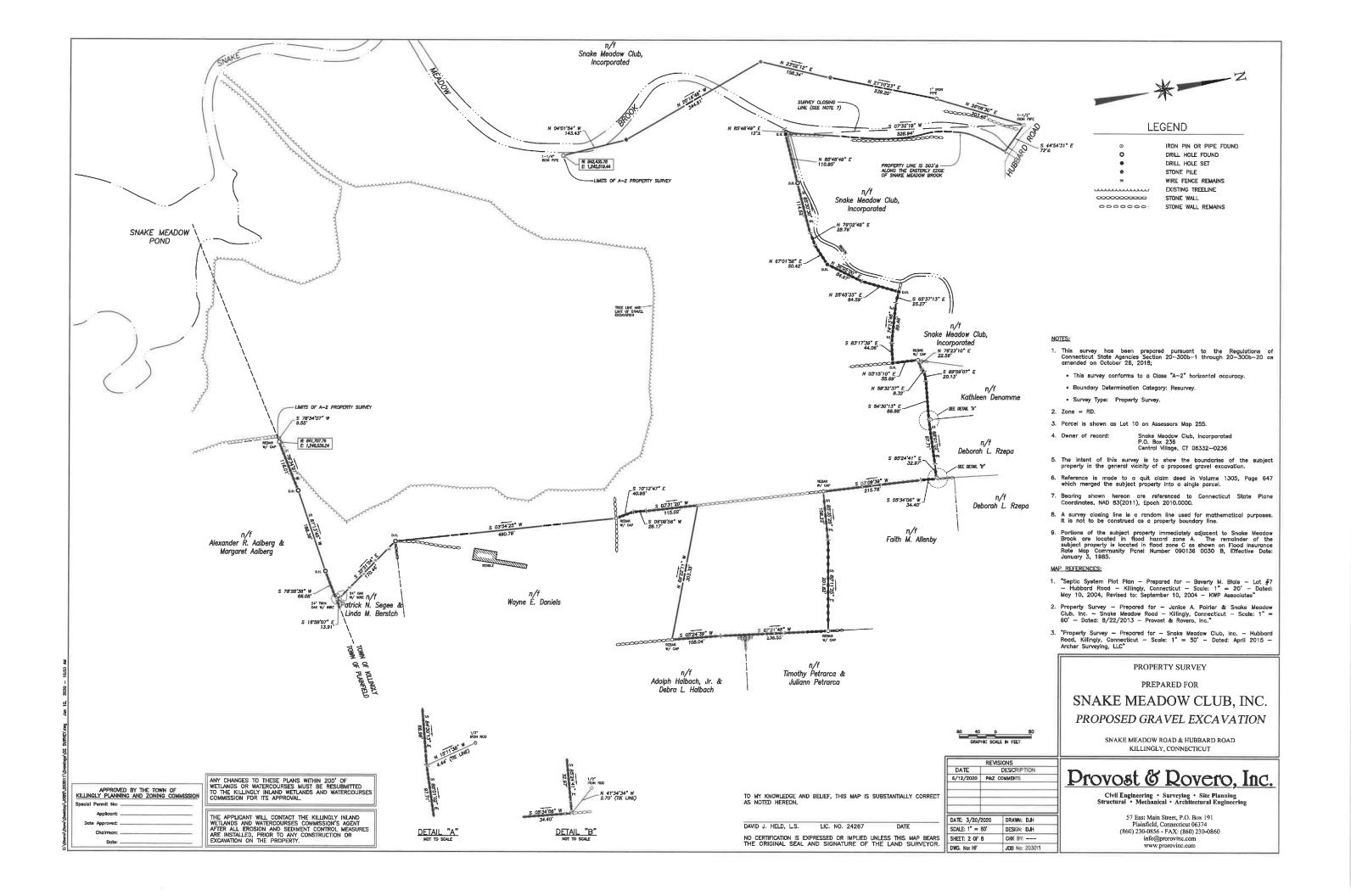
CHAIRMAN DATE

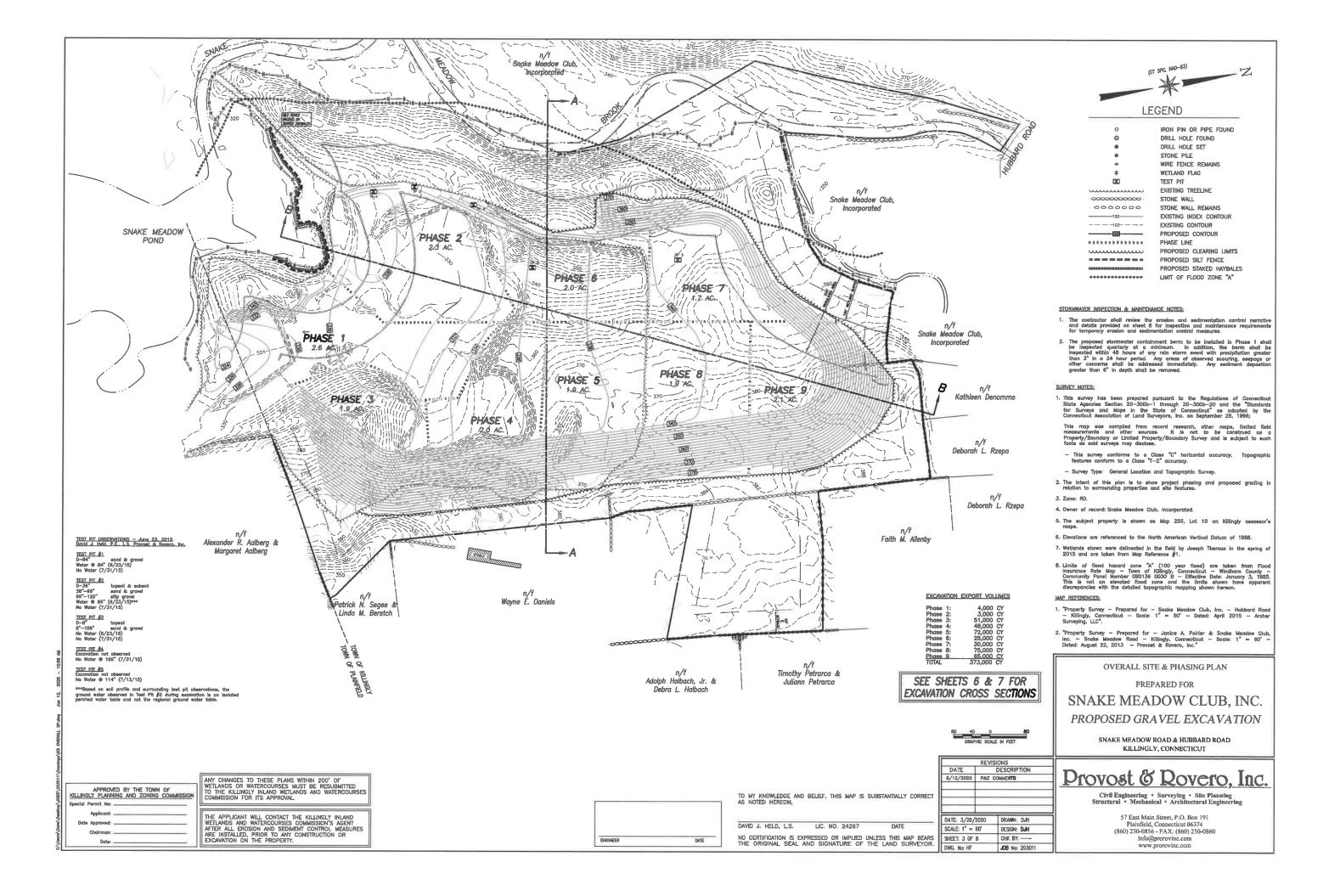
ANY CHANGES TO THESE PLANS WITHIN 200' OF WETLANDS OR WATERCOURSES MUST BE RESUBMITTED TO THE KILLINGLY INLAND WETLANDS AND WATERCOURSES COMMISSION FOR ITS APPROVAL

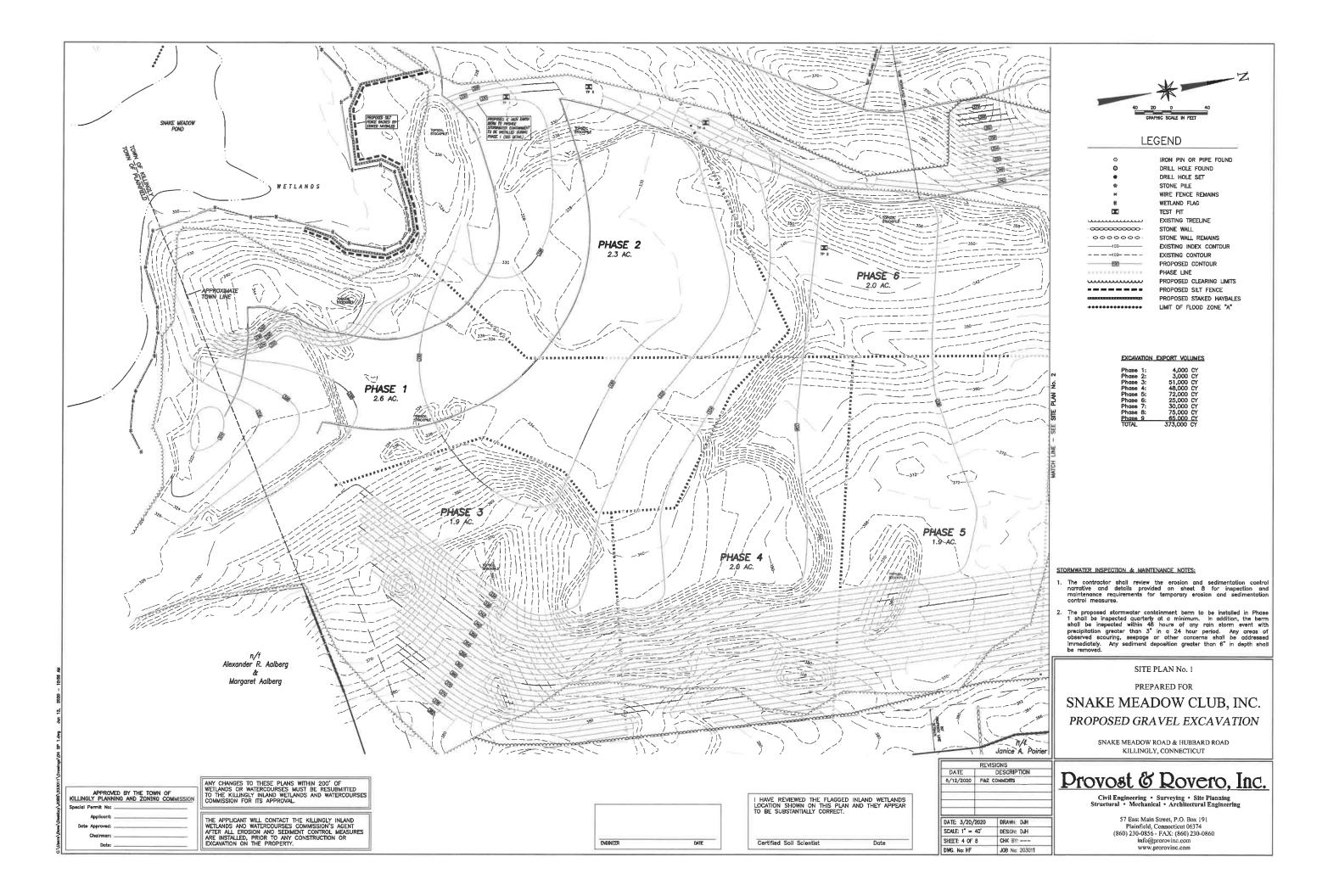
THE APPLICANT WILL CONTACT THE KILLINGLY INLAND WETLANDS AND WATERCOURSES COMMISSION'S AGENT AFTER ALL EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED, PRIOR TO ANY CONSTRUCTION OR EXCAVATION ON THE PROPERTY.

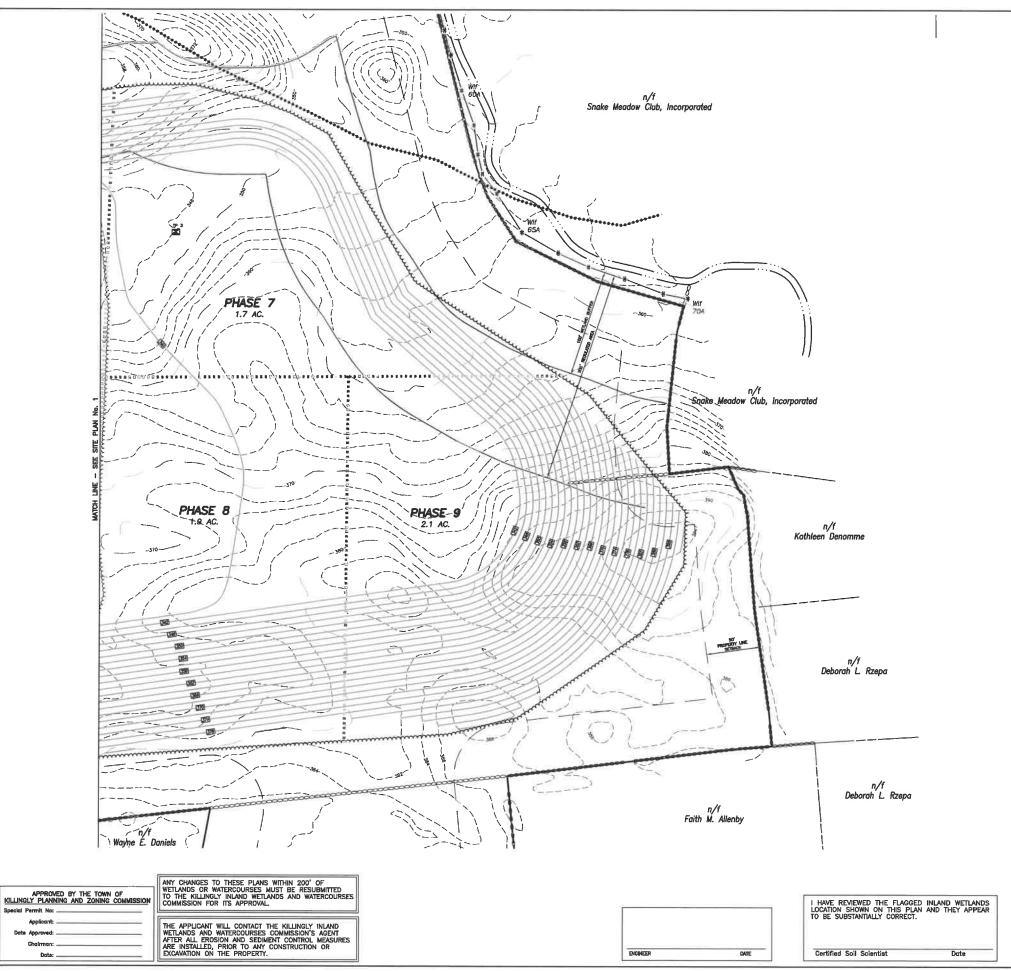
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SHEET 1 OF 8

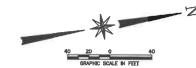








Date: _



LEGEND

•	IRON PIN OR PIPE FOUND
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•	DRILL HOLE SET
ŵ	STONE PILE
*	WIRE FENCE REMAINS
#	WETLAND FLAG
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······································	EXISTING TREELINE
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	EXISTING CONTOUR
- FW	PROPOSED CONTOUR
***********	PHASE LINE
······································	PROPOSED CLEARING LIMITS
	PROPOSED SILT FENCE
	PROPOSED STAKED HAYBALES
*********	LIMIT OF FLOOD ZONE "A"

EXCAVATION EXPORT VOLUMES

Phase 1:	4,000 (
Phase 2:	3,000 (
Phase 3:	51,000 0
Phase 4:	48,000 0
Phase 5:	72,000 0
Phase 6:	25,000 (
Phase 7:	30,000 0
Phase 8:	75,000 0
Phase 9	65,000.0
TOTAL	373,000 C

- 2. The proposed stormwater containment berm to be installed in Phase 1 shall be inspected quarterly 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 6° depth shall be removed.

SITE PLAN No. 2

PREPARED FOR

SNAKE MEADOW CLUB, INC. PROPOSED GRAVEL EXCAVATION

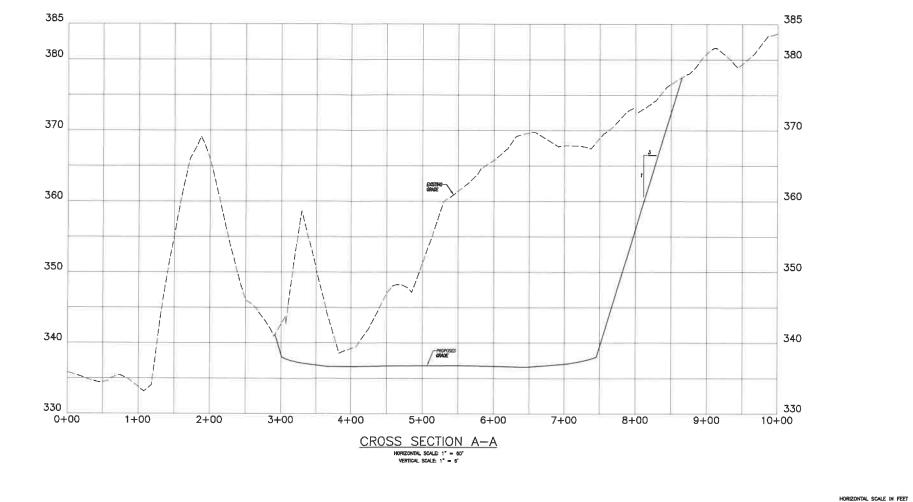
SNAKE MEADOW ROAD & HUBBARD ROAD KILLINGLY, CONNECTICUT

	REVI:	SIONS	
DATE		DESCRIPTION	┑
6/12/2020	P&Z	COMMENTS	
DATE: 3/20/2	020	DRAWN: DJH	4
SCALE: 1" = 4	Ю,	DESIGN: DJH	
SHEET: 5 OF 8	3	CHK BY:	
DWG. No: HF		JOB No: 203011	7

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EXCAVATION CROSS SECTION A-A

PREPARED FOR

SNAKE MEADOW CLUB, INC. PROPOSED GRAVEL EXCAVATION

SNAKE MEADOW ROAD & HUBBARD ROAD KILLINGLY, CONNECTICUT

80 30 0 S0 6 3 0 B VERTICAL SCALE IN FIET

REVISIONS
DATE DESCRIPTION
6/12/2020 P&Z COMMENTS

DATE: 3/20/2020 DRAWN DJH

SCALE: AS SHOWN DESIGN: DJH

SHEET: 6 OF 8

CHK BY: ---

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APPROVED BY THE TOWN OF KILLINGLY PLANNING AND ZONING COMMISSION Special Permit No:

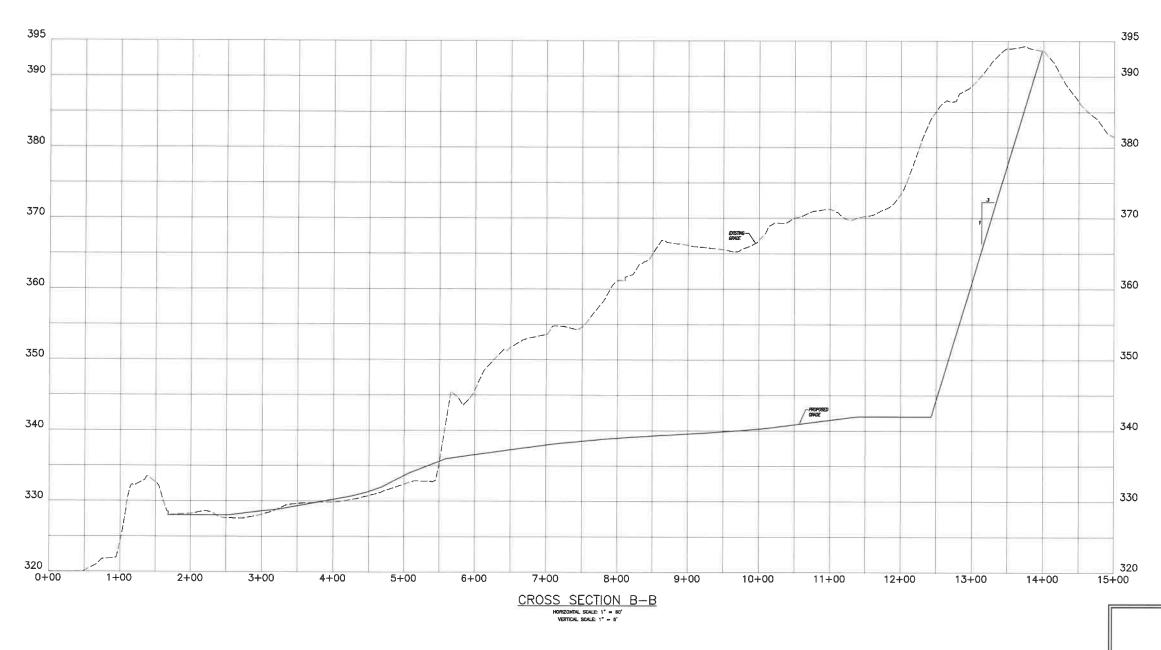
Applicant: __

Date Approved: _

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

EXCAVATION CROSS SECTION B-B

PREPARED FOR

SNAKE MEADOW CLUB, INC. PROPOSED GRAVEL EXCAVATION

SNAKE MEADOW ROAD & HUBBARD ROAD KILLINGLY, CONNECTICUT

SCALE: AS SHOWN DESIGN: DJH SHEET: 7 OF 8 CHK BY: ---

DATE	DESCRIPTION			
6/12/2020	PAZ COMMENTS			
			_	
DATE: 3/20/	2020	DRAWN: DJH	=	
COLUMN TO CHICAGO				

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

Special Permit No: ____ Applicant: _ Date Approved: __

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.

EROSION AND SEDIMENT CONTROL PLAN:

REFERENCE IS MADE TO:

- 1. Connecticut Guidelines for Soil Erosion and Sediment Control 2002 (2002 Guidelines).
- 2. Soi! Survey of Connecticut. N.R.C.S.

- 1. Dig a 5" deep trench on the uphill side of the barrier location.
- Position the posts on the downhill side of the barrier and drive the posts 1.5 feet into the ground.
- 3. Lay the bottom 6" of the fabric in the trench to prevent undermining and backfill.
- 4. Inspect and repair barrier after heavy rainfall.
- 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 overtapped, undersuct or bypassed by runoff water.
 the fence has been moved out of position (knocked over), or
 the space statile has decomposed or been domaged.

HAY BALE INSTALLATION AND MAINTENANCE:

- 1. 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 gape between bales shall be wedged with straw to prevent water from passing between the bales.
- Inspect bales at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs.
- 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 coverapped, undertuit or bypassed by runoff water,
 the barrier has been moved out of position, or
 the barrier has been moved out of position, or
 the inty blocks have destrictated or been damaged.

TEMPORARY VEGETATIVE COVER:

SEED SELECTION

TIMING CONSIDERATIONS

Seed with a temporary seed mixture within 7 days after the suspension of grading work in disturbed areas where the suspension of work is expected to be more than 30 days but less than 1 year.

Install needed erosion control measures such as diversions, grade stabilization structures, sediment basins and grassed waterways.

SEEDBED PREPARATION

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 realized. Soil preparation on the property of the section of chair life, the section of chair life, thereo. Avoid excessive companies, hornour or or depth life, thereo. Avoid excessive companies of the section of chair life, thereo. Avoid excessive conditions of the chair life, the section and forth over the surface. If the slope is tracked, the clear marks shall be perpendicular to the articipated direction of the flow of surface water.

MAINTENANCE

Apply seed uniformly by hand cyclone seeder, drill, cultipacker type seeder or hydroseeder at a minimum rate for the selected species. Increase seeding rates by 10% when hydroseeding. MULCHING

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.

Continue inspections until the grasses are firmly established. Grasses shall not be considered established until a ground cover is achieved which is mature enough to control soil eroeion and to aurover severa weather conditions. Graproximchally SOX vegetative cover).

PERMANENT VEGETATIVE COVER:

- Apply agricultural ground limestone at a rate of 2 tons per acre or 100 lbs. per 1000 s.f. Apply 10-10-10 festilizer 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 lime and fertilizer into the soil to a depth of 4.
- inspect seedbed before seeding. If traffic has compacted the soil, retill compacted areas
- 5. Apply the chosen grass seed mix. The recommended seeding dates are: April 1 to June 15

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 erodad soil particles before they reach any sensitive arms and the property of the production of the productin of the production of the production of the production of the pr

The more land that is in vegetable cover, the more surface water will infiltrate into the soil, thus minimizing stormwater runoff and potential erosion. Keeping land disturbance to a minimum not only involves minimizing the extent of exposure at any one time, but also the duration of exposure. Phasing, asquencing and construction echeduling are interrelated. Phasing divides a large project into distinct sections where construction work over a specific erac occurs over distinct periods of time and each phase is not dependent upon a subsequent phase in order to be functional. A sequence is the order in which construction activities are to occur during any perticular phase. A sequence should be developed on the premise of "first things first" and "lost things last" with proper stathtion given to the inclusion of odequate erosion and sediment central measures. A construction schedule is a sequence with time lines applied to it and should address the potential overlap of actions in a sequence which may be in conflict with seach other.

- Limit areas of clearing and grading. Protect natural vegetation from construction equipment with fencing, tree armoning, and retaining walls or tree wells.
- Routs traffic patterns within the site to avoid existing or newly planted vegetation.

- Use diversions, stone dikes, still fences and similar measures to break flow lines and dissipate storm water energy.

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

- Segregate construction waters from clean water.

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 beains within the sits. By reducing sediment locating from within the sits, the chance of perimeter control failure and the potential off-site damage that it can cause in reduced. It is generally more expensive to correct off-site damage than it is to install proper internal controls.

- Direct runoff from small disturbed areas to adjoining undisturbed vegetated areas to reduce the potential for concentrated flows and increase settlement and filtering of sediments.
- Determine the need for sediment basins. Sediment basins are required on larger developments where major grading is planned and where it is impossible or impractical to control erocino at the source. Sediment basins are needed on large and amall after when sensitive areas such as welfands, watercourses, and ettrests would be impacted by off-sets sediment deposition. Do not locate sediment despection or permanent or intermittant watercourses. Sediment basins should be located to intercept runoff prior to its entry into the wetland or wetercourse.
- Grade and landscape around buildings and septic systems to divert water away from them.

- Excavation shall be completed in occordance with the phasing plan contained herein. Prior to the start of sand and gravel removal, any topsell and subsoil shall be stripped and subsoil shall be stripped and stackpiled within or adjacent to the respective phase for use in restoration. Topsell and subsoil stackpiles which or adjacent with a temporary or permanent vegetative cover. The salection of an appropriate vegetative cover will depend on the anticipated duration of the
- Proposed finish grade elevations shown hereon are based on test pits with standploes installed at the locations shown. It is assumed that the regional groundwater elevation is located at the bottom of each test pit where water was not encountered. The applicant may excevate additional test pits or borings as the proposed finish grades are approached not determine if additional material may be removed while additional of the proposed finish grades are approached between finish and the regional groundwater table. All such test pits and/or borings shall be witnessed by a professional engineer and/or the Killing's Engineering Department and each test pit or boring shall be equipped with a standploe or monitoring of the grundwater levals. The applicant shall notify sell to allow long term monitoring of the grundwater levals. The applicant shall not shall not proceed with such according without the approval of the Planning desired and shall not proceed with such according which the approval of the Planning
- No topsoil or subsoil stripped from the excavation area shall be sold or removed from the
- Discretion of each phase shall be completed in a meaning which resures containment of sediment lodes atomised within the cathe exception area. In general, this can be cocomplished by progressing with a "devocation" exception method and maintaining on active excavation face at a lower elevation than the surrounding grades. If any perinated revolund and sedimentation controls are neglared to prevent transport of addiment location controls are neglared to prevent transport of addimentation controls are neglared to prevent transport of addimentation audit no longer 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 owner and/or site operator shall provide adequate dust control to prevent any off-site
 nuisonce. Dust control on houl roads shall be accomplished with the application of water.

- 10. The hours of operation shall be:

 No operations shall take place on Sundays or national holidays. Operations outside of the normal hours will be allowed only with the permission of the Killingly Planning & Zoning Commission.

- 13. On-eithe 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

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 excovation of the phase. It is the intention that Phases 1 and 2 be restored to the extent possible prior to continuing excevation of the active face in Phase 3. The afts operator shall maintain haul roads and a sufficient work area to continue execution into
- Areas shown to be filled to provide the required final grade shall be filled with allt, allty and and/or fine sand. In general, this material may be either on-eite overburden or material unsuitable for other uses or wealthing fines from off-eite processing. The purpose of this material is to provide water holding capability for the restored area and allow for establishment of the desiral vegetative cover.

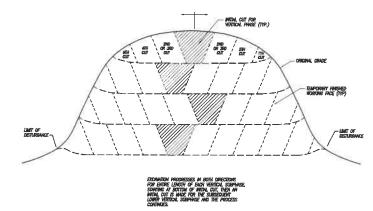
Variety	Lbs/Acre
Switchgrass (Blackwell, Shelter, Cave-in-rock)	4.0
Big Bluestern (Niegra, Kow)	4.0
Little Bluestern (Blaze, Aldous, Camper)	2.0
Sand Lovegrass (NE-27, Bend)	1.5
Bird's-foot Trefoil (Empire, Viking)	2.0
	TOTAL 135

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

The following equipment is the anticipated maximum for use on site during the duration of

ENGINEER

2 wheel loaders (Cat 980 or similar)
1 large excavator (Cat 345 or similar)
1 large dozer (Cat D8 or similar)
1 medium dozer (Cat D6 or similar)
Misc. squipment for restoration of exca



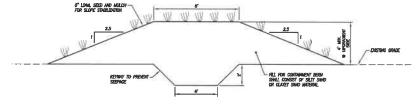
SILT FENCE

HAYBALE BARRIER

NOT TO SCALE

(2)-2"x2"X3" STAKES

DETAIL SHOWING "DOWNCUTTING" EXCAVATION METHOD



COMPANIENT BERN SHALL DE REPECTED POLLORING ANY RIGHTAL ENEMT CREATER THAN 3° BY A 24 HOUR PERIOD OR AY A MINIMAN ON A QUARTERLY BASS. ACCUMULATED SERMENT SHALL BE REMOVED WHEN B' EXCESS A DEPTH. OF 8° AY DR BRAY

CONTAINMENT BERM CROSS SECTION

DATE

DETAIL SHEET

PREPARED FOR

SNAKE MEADOW CLUB, INC. PROPOSED GRAVEL EXCAVATION

> SNAKE MEADOW ROAD & HUBBARD ROAD KILLINGLY, CONNECTICUT

	REVI:	SIONS
DATE	DESCRIPTION	
6/12/2020	P&Z COMMENTS	
DATE: 3/20/2020		DRAWN: DJH
SCALE: AS SHOWN		DESIGN: DJH
SHEET: 8 OF 8		CHK BY:
DWG. No: HF		

Provost & Rovero, Inc.

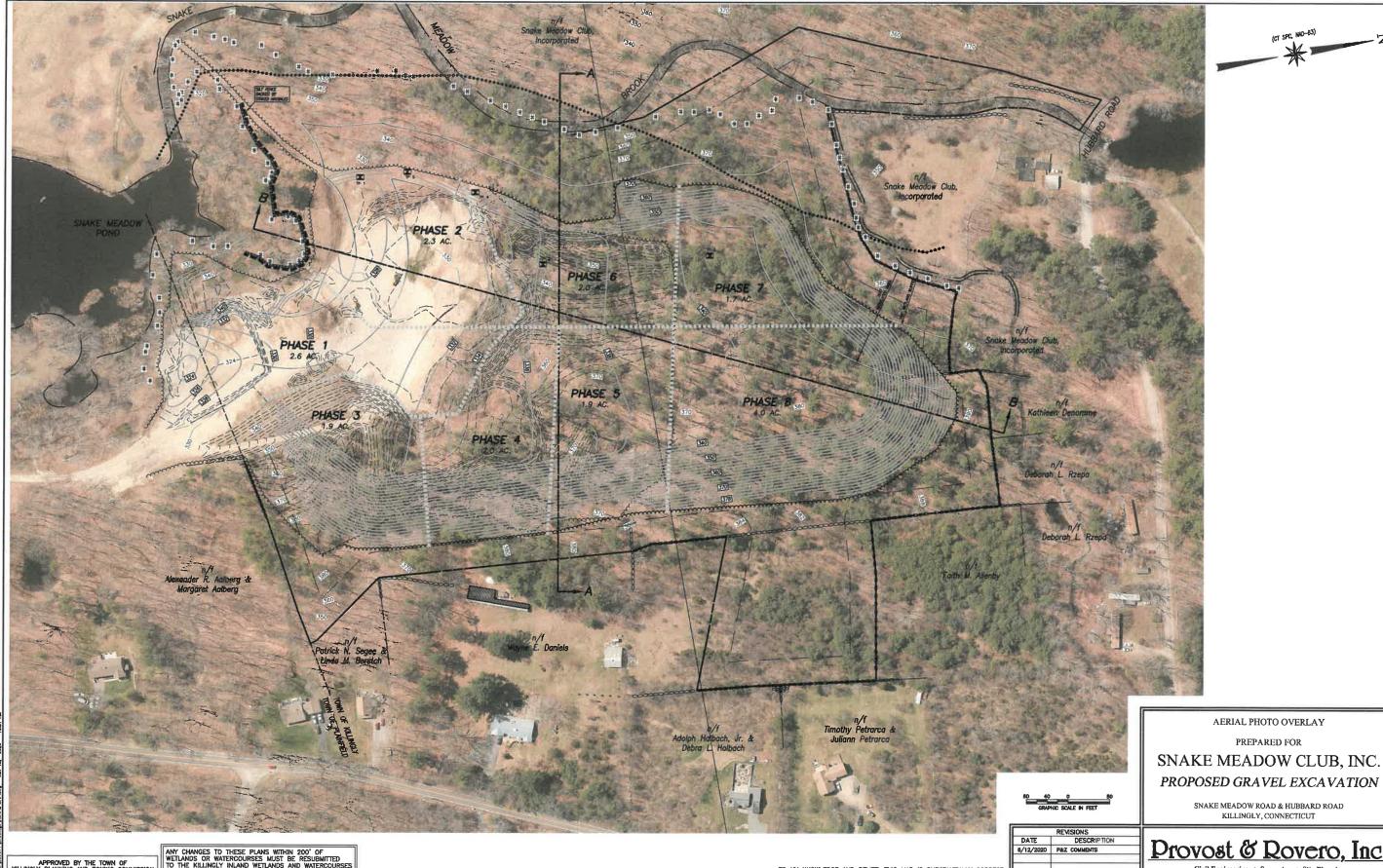
Civil Engineering • Surveying • Site Planning Structural • Mechanical • Architectural Engineering

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APPROVED BY THE TOWN OF KILLINGLY PLANNING AND ZONING COMMISSION pecial Permit No:

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.



APPROVED BY THE TOWN OF KILLINGLY PLANNING AND ZONING COM

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

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON,

DAVID J. HELD, L.S. LIC. NO. 24267 NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

DATE: 3/20/2020 DRAWN: DJH SCALE: 1" = 80' DESIGN: DJH SHEET: - OF 8 CHK BY: ----

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