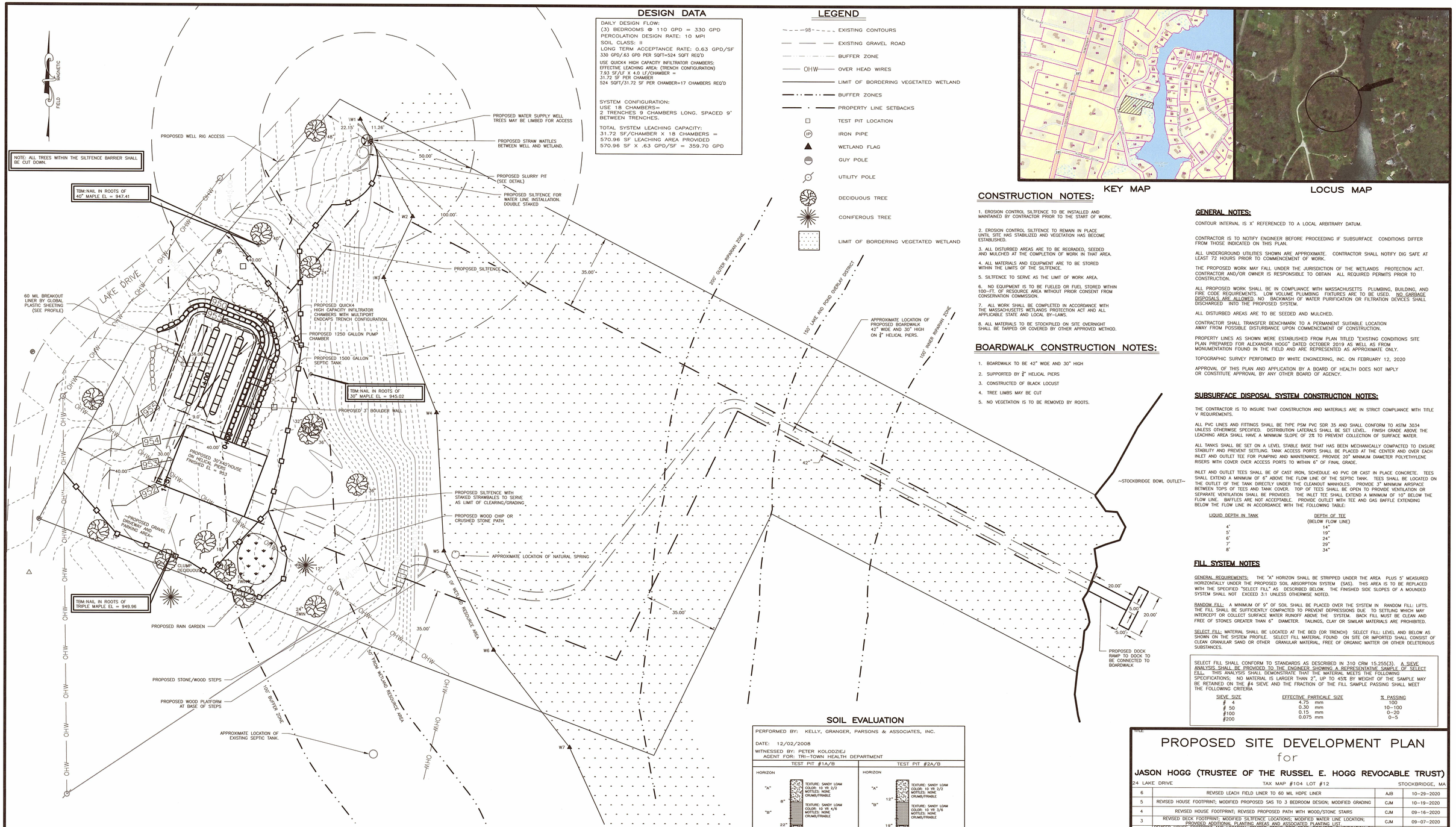


SITE PLAN

SCALE: 1" = 20'

20 0 20 40 60

SCALE IN FEET

DESIGN DATA

DAILY DESIGN FLOW:
(3) BEDROOMS @ 110 GPD = 330 GPD
PERCOLATION DESIGN RATE: 10 MPI
SOIL CLASS: II
LONG TERM ACCEPTANCE RATE: 0.63 GPD/SF
330 GPD/.63 GPD PER SQFT=524 SQFT REQ'D

USE QUICK4 HIGH CAPACITY INFILTRATOR CHAMBERS:
EFFECTIVE LEACHING AREA: (TRENCH CONFIGURATION)
7.93 SF/LF X 4.0 LF/CHAMBER =
31.72 SF PER CHAMBER
524 SQFT/31.72 SF PER CHAMBER=17 CHAMBERS REQ'D

SYSTEM CONFIGURATION:
USE 18 CHAMBERS=
2 TRENCHES 9 CHAMBERS LONG. SPACED 9' BETWEEN TRENCHES.

TOTAL SYSTEM LEACHING CAPACITY:
31.72 SF/CHAMBER X 18 CHAMBERS =
570.96 SF LEACHING AREA PROVIDED
570.96 SF X .63 GPD/SF = 359.70 GPD

LEGEND

- 98 EXISTING CONTOURS
- EXISTING GRAVEL ROAD
- BUFFER ZONE
- OHW OVER HEAD WIRES
- LIMIT OF BORDERING VEGETATED WETLAND
- BUFFER ZONES
- PROPERTY LINE SETBACKS
- TEST PIT LOCATION
- IP IRON PIPE
- WETLAND FLAG
- GUY POLE
- UTILITY POLE
- DECIDUOUS TREE
- CONIFEROUS TREE
- LIMIT OF BORDERING VEGETATED WETLAND

KEY MAP

LOCUS MAP

CONSTRUCTION NOTES:

1. EROSION CONTROL SILTFENCE TO BE INSTALLED AND MAINTAINED BY CONTRACTOR PRIOR TO THE START OF WORK.
2. EROSION CONTROL SILTFENCE TO REMAIN IN PLACE UNTIL SITE HAS STABILIZED AND VEGETATION HAS BECOME ESTABLISHED.
3. ALL DISTURBED AREAS ARE TO BE REGRADED, SEEDED AND MULCHED AT THE COMPLETION OF WORK IN THAT AREA.
4. ALL MATERIALS AND EQUIPMENT ARE TO BE STORED WITHIN THE LIMITS OF THE SILTFENCE.
5. SILTFENCE TO SERVE AS THE LIMIT OF WORK AREA.
6. NO EQUIPMENT IS TO BE FUELED OR FUEL STORED WITHIN 100-FT. OF RESOURCE AREA WITHOUT PRIOR CONSENT FROM CONSERVATION COMMISSION.
7. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE MASSACHUSETTS WETLANDS PROTECTION ACT AND ALL APPLICABLE STATE AND LOCAL BY-LAWS.
8. ALL MATERIALS TO BE STOCKPILED ON SITE OVERNIGHT SHALL BE TARPED OR COVERED BY OTHER APPROVED METHOD.

BOARDWALK CONSTRUCTION NOTES:

1. BOARDWALK TO BE 42" WIDE AND 30" HIGH
2. SUPPORTED BY 3" HELICAL PIERS
3. CONSTRUCTED OF BLACK LOCUST
4. TREE LIMBS MAY BE CUT
5. NO VEGETATION IS TO BE REMOVED BY ROOTS.

GENERAL NOTES:

CONTOUR INTERVAL IS X' REFERENCED TO A LOCAL ARBITRARY DATUM.

CONTRACTOR IS TO NOTIFY ENGINEER BEFORE PROCEEDING IF SUBSURFACE CONDITIONS DIFFER FROM THOSE INDICATED ON THIS PLAN.

ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL NOTIFY DIG SAFE AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.

THE PROPOSED WORK MAY FALL UNDER THE JURISDICTION OF THE WETLANDS PROTECTION ACT. CONTRACTOR AND/OR OWNER IS RESPONSIBLE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.

ALL PROPOSED WORK SHALL BE IN COMPLIANCE WITH MASSACHUSETTS PLUMBING, BUILDING, AND FIRE CODE REQUIREMENTS. LOW VOLUME PLUMBING FIXTURES ARE TO BE USED. NO GARBAGE DISPOSALS ARE ALLOWED NO BACKWASH OF WATER PURIFICATION OR FILTRATION DEVICES SHALL DISCHARGED INTO THE PROPOSED SYSTEM.

ALL DISTURBED AREAS ARE TO BE SEEDED AND MULCHED.

CONTRACTOR SHALL TRANSFER BENCHMARK TO A PERMANENT SUITABLE LOCATION AWAY FROM POSSIBLE DISTURBANCE UPON COMMENCEMENT OF CONSTRUCTION.

PROPERTY LINES AS SHOWN WERE ESTABLISHED FROM PLAN TITLED "EXISTING CONDITIONS SITE PLAN PREPARED FOR ALEXANDRA HOGG" DATED OCTOBER 2019 AS WELL AS FROM MONUMENTATION FOUND IN THE FIELD AND ARE REPRESENTED AS APPROXIMATE ONLY.

TOPOGRAPHIC SURVEY PERFORMED BY WHITE ENGINEERING, INC. ON FEBRUARY 12, 2020

APPROVAL OF THIS PLAN AND APPLICATION BY A BOARD OF HEALTH DOES NOT IMPLY OR CONSTITUTE APPROVAL BY ANY OTHER BOARD OF AGENCY.

SUBSURFACE DISPOSAL SYSTEM CONSTRUCTION NOTES:

THE CONTRACTOR IS TO INSURE THAT CONSTRUCTION AND MATERIALS ARE IN STRICT COMPLIANCE WITH TITLE V REQUIREMENTS.

ALL PVC LINES AND FITTINGS SHALL BE TYPE PSM PVC SDR 35 AND SHALL CONFORM TO ASTM 3034 UNLESS OTHERWISE SPECIFIED. DISTRIBUTION LATERALS SHALL BE SET LEVEL. FINISH GRADE ABOVE THE LEACHING AREA SHALL HAVE A MINIMUM SLOPE OF 2% TO PREVENT COLLECTION OF SURFACE WATER.

ALL TANKS SHALL BE SET ON A LEVEL STABLE BASE THAT HAS BEEN MECHANICALLY COMPACTED TO ENSURE STABILITY AND PREVENT SETTLING. TANK ACCESS PORTS SHALL BE PLACED AT THE CENTER AND OVER EACH INLET AND OUTLET TEE FOR PUMPING AND MAINTENANCE. PROVIDE 20" MINIMUM DIAMETER POLYETHYLENE RISERS WITH COVER OVER ACCESS PORTS TO WITHIN 6" OF FINAL GRADE.

INLET AND OUTLET TEES SHALL BE OF CAST IRON, SCHEDULE 40 PVC OR CAST IN PLACE CONCRETE. TEES SHALL EXTEND A MINIMUM OF 6" ABOVE THE FLOW LINE OF THE SEPTIC TANK. TEES SHALL BE LOCATED ON THE OUTLET OF THE TANK DIRECTLY UNDER THE CLEANOUT MANHOLES. PROVIDE 3" MINIMUM AIRSPACE BETWEEN TOPS OF TEES AND TANK COVER. TOP OF TEES SHALL BE OPEN TO PROVIDE VENTILATION OR SEPARATE VENTILATION SHALL BE PROVIDED. THE INLET TEE SHALL EXTEND A MINIMUM OF 10" BELOW THE FLOW LINE. BAFFLES ARE NOT ACCEPTABLE. PROVIDE OUTLET WITH TEE AND GAS BAFFLE EXTENDING BELOW THE FLOW LINE IN ACCORDANCE WITH THE FOLLOWING TABLE:

LIQUID DEPTH IN TANK	DEPTH OF TEE (BELOW FLOW LINE)
4'	14"
5'	19"
6'	24"
7'	29"
8'	34"

FILL SYSTEM NOTES

GENERAL REQUIREMENTS: THE "A" HORIZON SHALL BE STRIPPED UNDER THE AREA PLUS 5' MEASURED HORIZONTALLY UNDER THE PROPOSED SOIL ABSORPTION SYSTEM (SAS). THIS AREA IS TO BE REPLACED WITH THE SPECIFIED "SELECT FILL" AS DESCRIBED BELOW. THE FINISHED SIDE SLOPES OF A MOUNDED SYSTEM SHALL NOT EXCEED 3:1 UNLESS OTHERWISE NOTED.

RANDOM FILL: A MINIMUM OF 9" OF SOIL SHALL BE PLACED OVER THE SYSTEM IN RANDOM FILL; LIFTS. THE FILL SHALL BE SUFFICIENTLY COMPACTED TO PREVENT DEPRESSIONS DUE TO SETTLING WHICH MAY INTERCEPT OR COLLECT SURFACE WATER RUNOFF ABOVE THE SYSTEM. BACK FILL MUST BE CLEAN AND FREE OF STONES GREATER THAN 6" DIAMETER. TAILINGS, CLAY OR SIMILAR MATERIALS ARE PROHIBITED.

SELECT FILL: MATERIAL SHALL BE LOCATED AT THE BED (OR TRENCH) SELECT FILL: LEVEL AND BELOW AS SHOWN ON THE SYSTEM PROFILE. SELECT FILL MATERIAL FOUND ON SITE OR IMPORTED SHALL CONSIST OF CLEAN GRANULAR SAND OR OTHER GRANULAR MATERIAL FREE OF ORGANIC MATTER OR OTHER DELETERIOUS SUBSTANCES.

SELECT FILL SHALL CONFORM TO STANDARDS AS DESCRIBED IN 310 CRM 15.255(3). A SIEVE ANALYSIS SHALL BE PROVIDED TO THE ENGINEER SHOWING A REPRESENTATIVE SAMPLE OF SELECT FILL. THIS ANALYSIS SHALL DEMONSTRATE THAT THE MATERIAL MEETS THE FOLLOWING SPECIFICATIONS: NO MATERIAL IS LARGER THAN 2", UP TO 45% BY WEIGHT OF THE SAMPLE MAY BE RETAINED ON THE #4 SIEVE AND THE FRACTION OF THE FILL SAMPLE PASSING SHALL MEET THE FOLLOWING CRITERIA

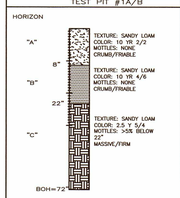
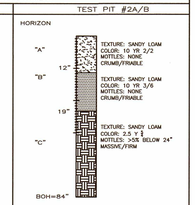
SIEVE SIZE	EFFECTIVE PARTICALE SIZE	% PASSING
# 4	4.75 mm	100
# 50	0.30 mm	10-100
#100	0.15 mm	0-20
#200	0.075 mm	0-5

SOIL EVALUATION

PERFORMED BY: KELLY, GRANGER, PARSONS & ASSOCIATES, INC.

DATE: 12/02/2008

WITNESSED BY: PETER KOLODZIEJ
AGENT FOR: TRI-TOWN HEALTH DEPARTMENT

TEST PIT #1A/B	TEST PIT #2A/B
	
HORIZON "A" 8" TEXTURE: SANDY LOAM COLOR: 10 YR 2/2 MOTTLES: NONE CRUMB/FRIABLE; "B" 22" TEXTURE: SANDY LOAM COLOR: 10 YR 4/6 MOTTLES: NONE CRUMB/FRIABLE; "C" TEXTURE: SANDY LOAM COLOR: 2.5 Y 5/4 MOTTLES: >5% BELOW 22" MASSIVE/FIRM; BOH=72"	HORIZON "A" 12" TEXTURE: SANDY LOAM COLOR: 10 YR 2/2 MOTTLES: NONE CRUMB/FRIABLE; "B" 19" TEXTURE: SANDY LOAM COLOR: 10 YR 3/6 MOTTLES: NONE CRUMB/FRIABLE; "C" TEXTURE: SANDY LOAM COLOR: 2.5 Y 5/ MOTTLES: >5% BELOW 24" MASSIVE/FIRM; BOH=84"
ESTIMATED SEASONAL HIGH GROUND WATER: 22" DEPTH TO REFUSAL: 72"	ESTIMATED SEASONAL HIGH GROUND WATER: 30" DEPTH TO REFUSAL: 84"
PERC TEST #1	PERC TEST #2
DEPTH OF PERC: 33" PERC RATE: 8.6 MIN/INCH	DEPTH OF PERC: 32" PERC RATE: 7.6 MIN/INCH

PLANTING LIST

PLANT 16 TOTAL OF THE FOLLOWING.

GRAY DOGWOOD (CORNUS RACEMOSA) 3-4' IN HEIGHT

AMERICAN HAZLENUT (CORYLUS AMERICANA) 3-4' IN HEIGHT

NANNYBERRY (VIBURNUN LENTAGO)

LOWBUSH BLUEBERRY (VACCINIUM ANGUSTIFOLIUM)

BRENT W. WHITE CIVIL NO. 47685 REGISTERED COMMONWEALTH OF MASSACHUSETTS

TITLE:

PROPOSED SITE DEVELOPMENT PLAN

for

JASON HOGG (TRUSTEE OF THE RUSSEL E. HOGG REVOCABLE TRUST)

24 LAKE DRIVE — TAX MAP #104 LOT #12 — STOCKBRIDGE, MA

NO:	REVISION:	BY:	DATE:
6	REVISED LEACH FIELD LINER TO 60 MIL HDPE LINER	AJB	10-29-2020
5	REVISED HOUSE FOOTPRINT; MODIFIED PROPOSED SAS TO 3 BEDROOM DESIGN; MODIFIED GRADING	CJM	10-19-2020
4	REVISED HOUSE FOOTPRINT; REVISED PROPOSED PATH WITH WOOD/STONE STAIRS	CJM	09-16-2020
3	REVISED DECK FOOTPRINT; MODIFIED SILTFENCE LOCATIONS; MODIFIED WATER LINE LOCATION; PROVIDED ADDITIONAL PLANTING AREAS AND ASSOCIATED PLANTING LIST	CJM	09-07-2020
2	REVISED HOUSE FOOTPRINT AND LOCATION; REVISED STONE DRIP EDGE; PROVIDED CLARIFICATION ON DECK/SCREEN PORCH LOCATIONS; REMOVED "SPOOL"	CJM	08-12-2020
1	PROVIDED ADDITIONAL GRADING/ELEVATIONS FOR PROPOSED HOUSE AND SEPTIC; REVISIONS TO PROPOSED DOCK PER COMMENTS FROM MASSACHUSETTS DEP	CJM/MCL	07-27-2020

WHITE ENGINEERING INC.
CIVIL & ENVIRONMENTAL
55 SOUTH MERRIAM STREET, PITTSFIELD, MA 01201
PHONE: (413) 443-8011 WEB: WHITEENG.COM FAX: (413) 443-8012
LICENSED IN CONNECTICUT, MASSACHUSETTS, NEW YORK AND VERMONT

DATE:	DRN:	APV'D:	DWG NO:
JULY 9, 2020	CJM	BMW	19-07-04F
DES'GN: SDB	CK'D: SDB/BMW	SCALE: AS NOTED	SHEET 1 OF 2