



August 25, 2023

Sudbury Conservation Commission  
Department of Public Works Building  
275 Old Lancaster Road  
Sudbury, MA 01776

**Re: DEP File #301-1376  
Plan Revision  
Jonatas Storck  
58 Massasoit Avenue, Sudbury, MA**

Dear Commission Members,

In response to comments received during the August 7, 2023 Conservation Commission meeting, we have revised the Design Plan and the Landscape Plan for 58 Massasoit Avenue, Sudbury, MA. The modifications include the following:

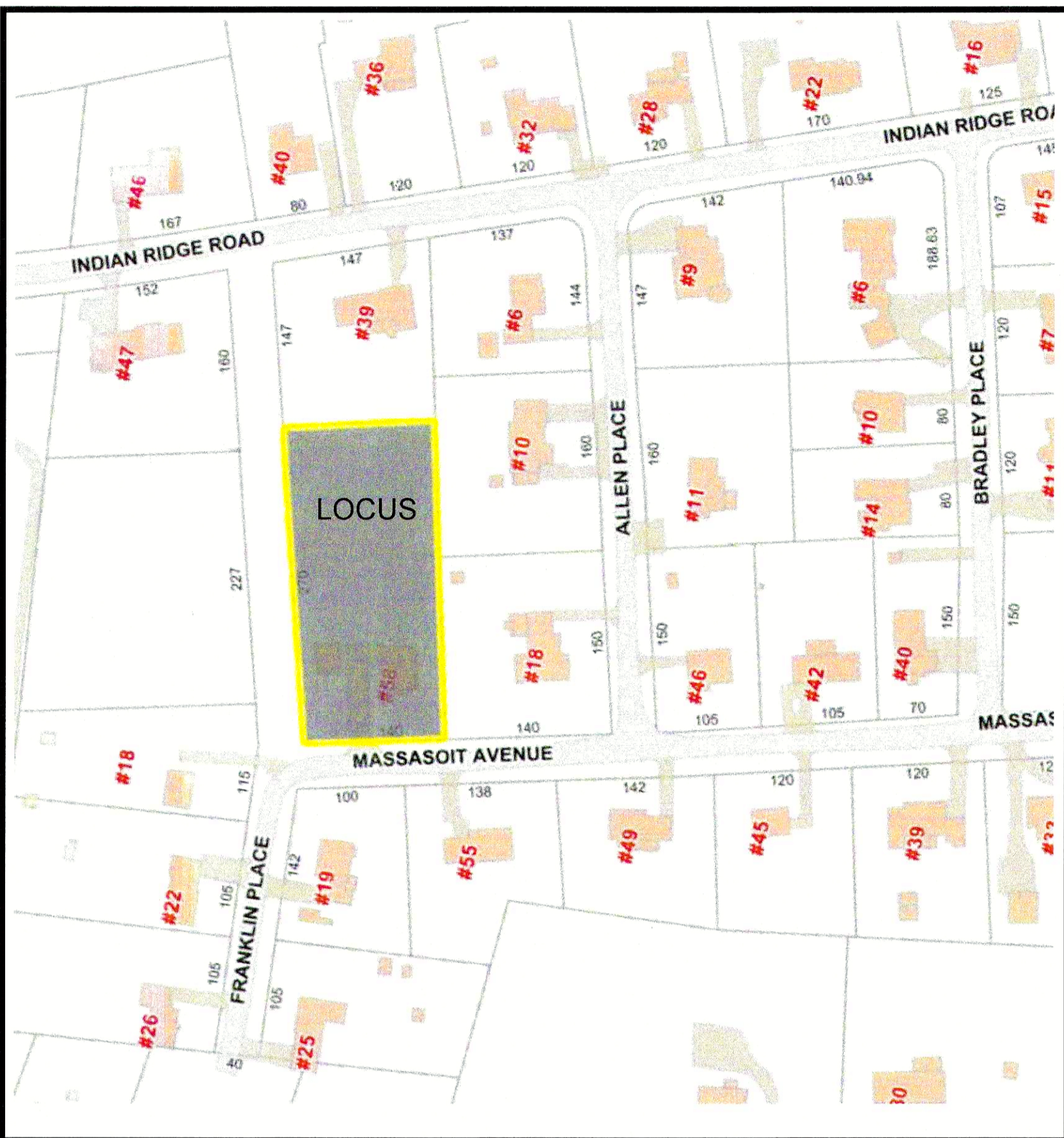
- The Landscape Plan has been revised to only reflect the landscape design for the front of the house, adjacent to the retaining wall and along the southerly property line. Attached please find six (6) copies of the Landscape Plan prepared by Steven Cosmos, dated 8-25-23.
- The Design Plan has been revised to add an additional chamber to the Roof Drain Recharger System and to add a note to the plan referencing the Landscape Architects Plan. Attached please find six (6) copies of the Design Plan prepared by GLM Engineering Consultants, Inc, dated 8-25-23.

Thank you for your attention. Please let me know if you have any questions.

Sincerely,  
GLM Engineering Consultants, Inc.

  
Joyce E. Hastings, P.L.S.  
Wetland Consultant

Cc. Jonatas Storck  
DEP NERO



**LOCUS MAP**

ASSESSOR'S REFERENCE:  
K09-0425

DEED REFERENCE:  
MIDDLESEX COUNTY REGISTRY OF DEEDS  
Bk. 79979, Pg. 14

PLAN REFERENCE:  
PLAN No. 933 OF 1949

OWNER OF RECORD:  
JBUS CHARLES, LLC c/o JONATAS STORCK  
15 EDWARDS LANE  
QUINCY, MA 02169

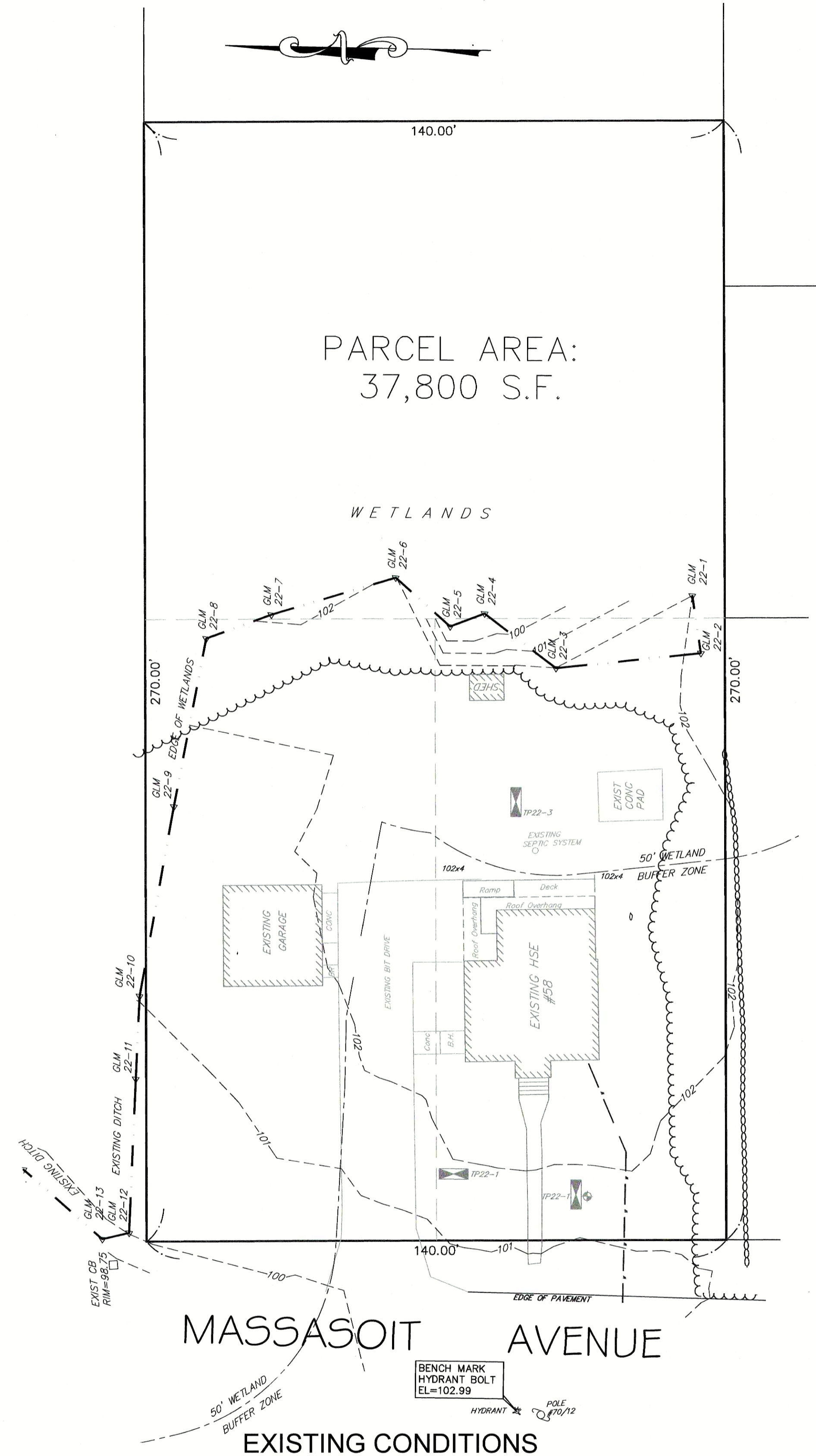
ZONING CLASSIFICATION:  
RES A-1  
MIN. LOT SIZE = 40,000 S.F.  
MIN. FRONTAGE = 180 FEET

MIN. SETBACK REQUIREMENTS:  
FRONT SET BACKS = 40 FEET  
SIDE SETBACKS = 20 FEET  
REAR SETBACKS = 30 FEET

**WETLAND BUFFER ACTIVITY**

ACTIVITY	100' BUFFER
EXISTING CONDITIONS	
HOUSE & ROOF OH	1,305 S.F.
DRIVEWAY	2189 S.F.
CONC WALK/BULKHEAD	312 S.F.
GARAGE	581 S.F.
SHED	52 S.F.
CONC. PAD	189 S.F.
TOTAL:	4,628 S.F.
EXISTING DECK & RAMP - 130 S.F. (NOT INCLUDED IN IMPERVIOUS AREA)	
PROPOSED CONDITIONS	
HOUSE & PORCH	1,774 S.F.
DRIVEWAY	1,475 S.F.
WALK	161 S.F.
RETAINING WALL	148 S.F.
BULKHEAD	30 S.F.
DECK & STAIRS	180 S.F.
AC UNITS	18 S.F.
TOTAL:	3,786 S.F.

\*\*\*THE PROJECT RESULTS IN A 842 S.F. DECREASE IN BUFFER ZONE ACTIVITY\*\*\*

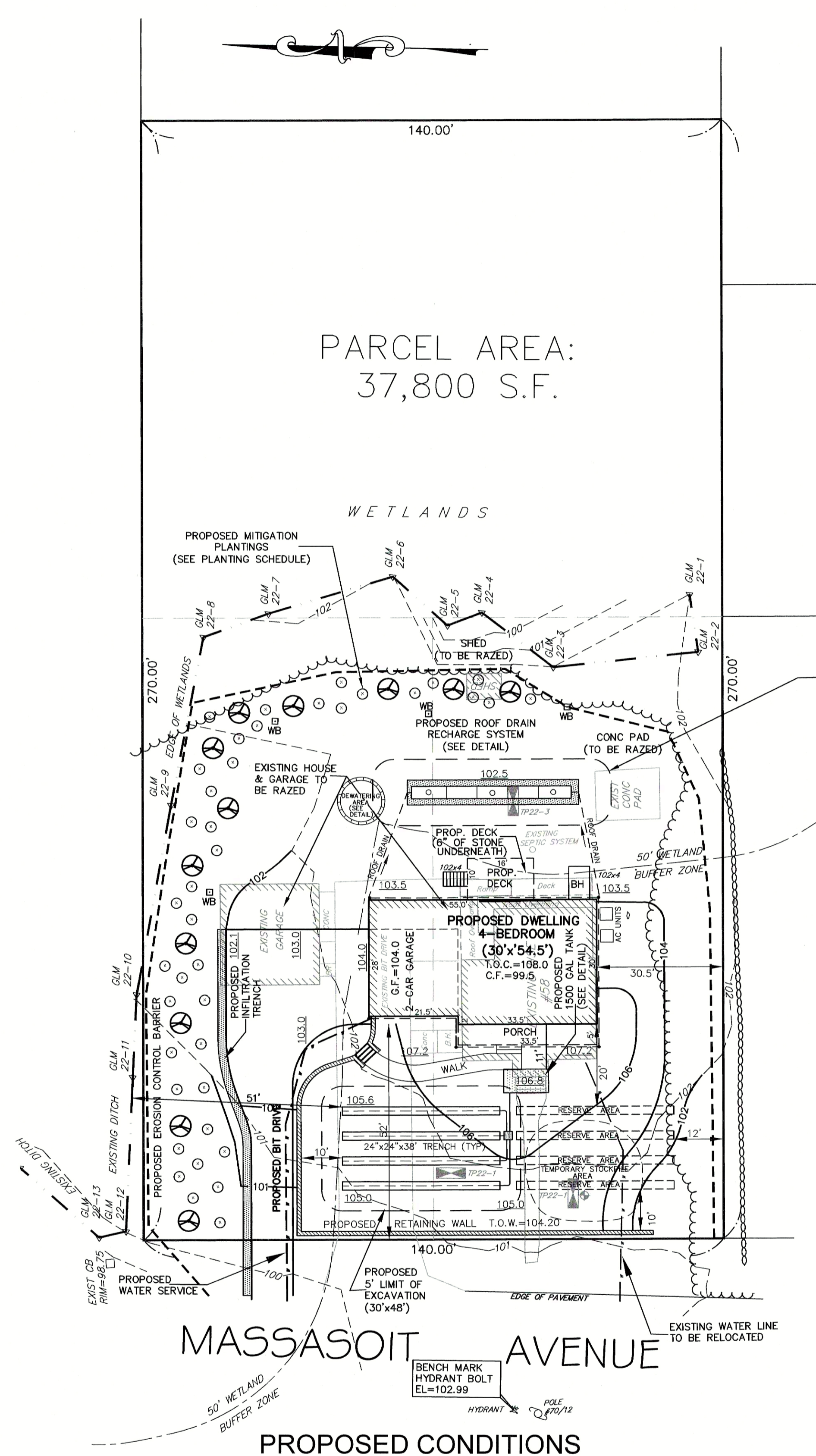


**MASSASOIT AVENUE**

**EXISTING CONDITIONS**

**REVISIONS**

No.	DATE	DESCRIPTION
7	1/27/2023	REVISED PORCH
8	5/1/2023	REVISED HOUSE DIMENSIONS
9	7/6/2023	REVISED PER COMMENTS
10	8/4/2023	REVISED IMPERVIOUS CALCULATION
11	8/25/2023	REVISED ROOF RECHARGE SYSTEM



**MASSASOIT AVENUE**

**PROPOSED CONDITIONS**

ROOF INFILTRATION - 5' LIMIT OF EXCAVATION (16' X 57.5') ALL TOPSOIL, SUBSOIL AND ANY DELETERIOUS MATERIAL (APPROXIMATELY ELEVATION 98.2) MUST BE REMOVED FROM THE AREA OF THE INFILTRATION SYSTEM AND OTHER DESIGNATED LIMITS AND FILLED WITH APPROVED, CLEAN, GRANULAR SAND. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES AND BE GRADED SO NOT MORE THAN 45% OF THE SAMPLE IS RETAINED IN A #4 SIEVE, OF THAT PASSING, 20% OR LESS SHALL PASS A #100 SIEVE AND 5% OR LESS SHALL PASS THE #200 SIEVE. NOT MORE THAN 30% SHALL BE RETAINED ON THE #60 SIEVE. SAMPLE FOR SIEVE ANALYSIS TO BE TAKEN FROM SAMPLE IN PLACE.

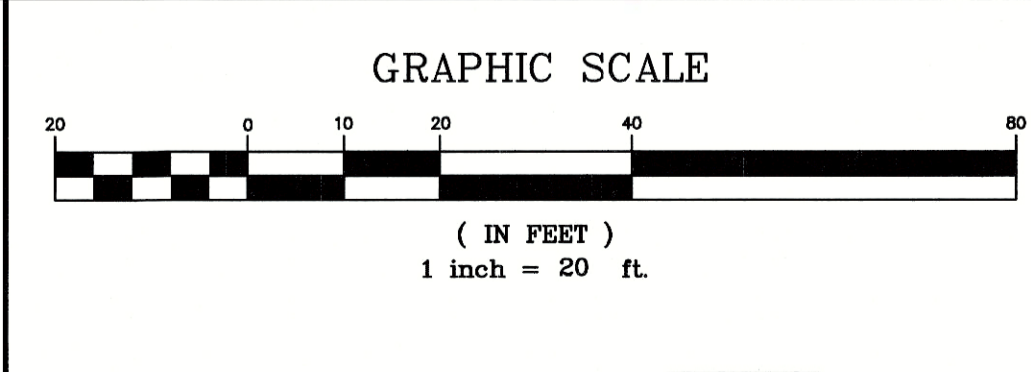
WB - (4) WETLAND BOUNDS (SEE DETAIL)

A TEMPORARY STOCKPILE AREA IS SHOWN IN THE FRONT YARD, IN THE EXPANSION AREA (AS SHOWN ON THE PLAN). IF THERE IS A STOCKPILE, IT WILL BE SURROUNDED BY STAKED SILT FENCE.

NOTE:  
THE PROPOSED BASEMENT FLOOR ELEVATION IS 99.5 FEET. THE POSSIBLE WATER STAIN IN THE BASEMENT IS AT ELEVATION 98.5 FEET.

NOTE:  
SEE LANDSCAPE PLAN PREPARED BY STEVEN COSMOS DATED AUGUST 25, 2023 FOR THE LANDSCAPING SCHEDULE IN FRONT OF THE HOUSE, ADJACENT TO THE RETAINING WALL AND ALONG THE SOUTHERLY PROPERTY LINE.

NOTE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. DIGSAFE IS TO BE NOTIFIED 72 WORKING HOURS IN ADVANCE OF CONSTRUCTION. DIGSAFE 1-888-344-7233



**REVISIONS**

No.	DATE	DESCRIPTION
1	8/10/2022	DRAINAGE, GRADING, SEPTIC
2	9/1/2022	STORMWATER, PLANTING
3	9/16/2022	REDUCE HOUSE, CALCS
4	10/10/2022	CONCOM COMMENTS
5	10/21/2022	TOWN ENG. COMMENTS/RET. WALL
6	1/2/2023	REDUCE HOUSE SIZE

FLD.: RC, ML  
DRW.: JEH  
CHKD.: RST

8/25/23

**GLM Engineering Consultants, Inc.**  
19 EXCHANGE STREET  
HOLLISTON, MA 01746  
P: 508-429-1100 F: 508-429-7160  
www.GLMengineering.com

**PROPOSED HOUSE LOCATION PLAN**  
"58 MASSASOIT AVENUE"  
SUDBURY, MASSACHUSETTS  
APPLICANT:  
JBUS CHARLES, LLC  
15 EDWARDS LANE  
QUINCY, MA 02169

JOB No. 17,240  
DATE: 7/6/2022  
SCALE: 1"=20'  
SHEET: 1 of 3  
PLAN #: 27,611

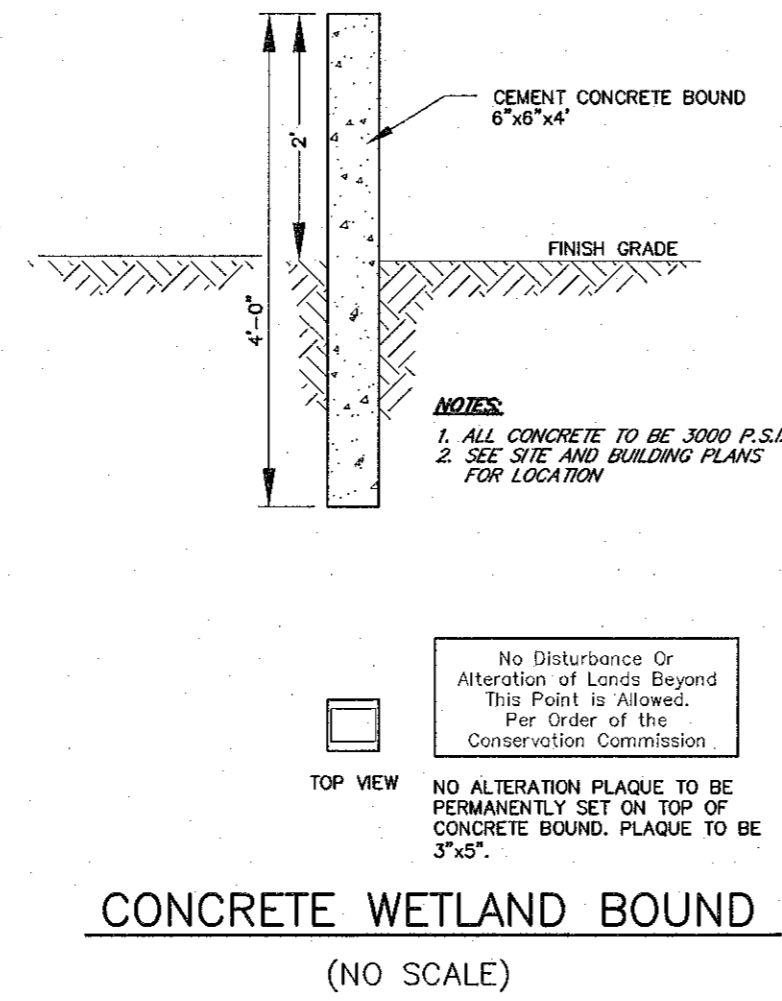
AS MITIGATION FOR ACTIVITY IN THE WETLAND BUFFER ZONE 2,200 S.F. OF EXISTING YARD WILL BE RESTORED WITH NATIVE VEGETATION.

**PLANTING SCHEDULE**

- - (40) SHRUBS (1 GALLON)
  - (10) - SWEET PEPPERBUSH (*Clethra alnifolia*)
  - (10) - HIGHBUSH BLUEBERRY (*Vaccinium corymbosum*)
  - (10) - GRAY DOGWOOD (*Cornus racemosa*)
  - (5) - RED CHOKEBERRY (*Aronia arbutifolia*)
  - (5) - SERVICEBERRY (*Amelanchier arborea*)
- ⊖ - (12) TREES (2 GALLON) - 1.5 INCH CALIPER
  - (4) - RED MAPLE (*Acer rubrum*)
  - (4) - BALSAM FIR (*Abies balsamea*)
  - (4) - BLACK GUM (*Nyssa sylvatica*)

- NOTES:**
- TREES AND SHRUBS WILL BE PLANTED AS SHOWN ON THE PLAN, WITH MINOR DEVIATIONS TO LOCATION BASED ON SITE CONDITIONS.
  - ALL PLANTINGS WILL BE WATERED AS NECESSARY AFTER PLANTING UNTIL SUCCESSFULLY ESTABLISHED.
  - ANY MODIFICATIONS TO PLAN SPECIES SHALL ONLY BE ALLOWED IF APPROVED BY SUDBURY CONSERVATION COMMISSION STAFF PRIOR.
  - THE RESTORATION AREA IS NOT INTENDED TO BE A LANDSCAPED AREA. IT IS TO BE REMAIN NATURAL. NO MULCH IS TO BE ADDED.
  - AS GRASS WITHIN THE RESTORATION AREA REACHES A HEIGHT OF 12 TO 14 INCHES, THE AREA WILL BE MOWED TO A HEIGHT OF 4 INCHES TO ENCOURAGE THE GROWTH OF THE PLANTED TREES AND SHRUBS.
  - AFTER THE SHRUBS AND TREES ARE PLANTED, THE RESTORATION SHALL BE OVERSEEDDED WITH A WETLAND SEED MIX.
  - DURING THE MONITORING PERIOD, THE WEEDS AT THE BASE OF THE PLANTED TREES AND SHRUBS SHALL BE PULLED TO ENCOURAGE THE GROWTH OF THE TREES AND SHRUBS.

AS ADDITIONAL MITIGATION FOR WETLAND BUFFER ZONE ACTIVITY, THE PROJECT WILL INCLUDE INVASIVE SPECIES MANAGEMENT.

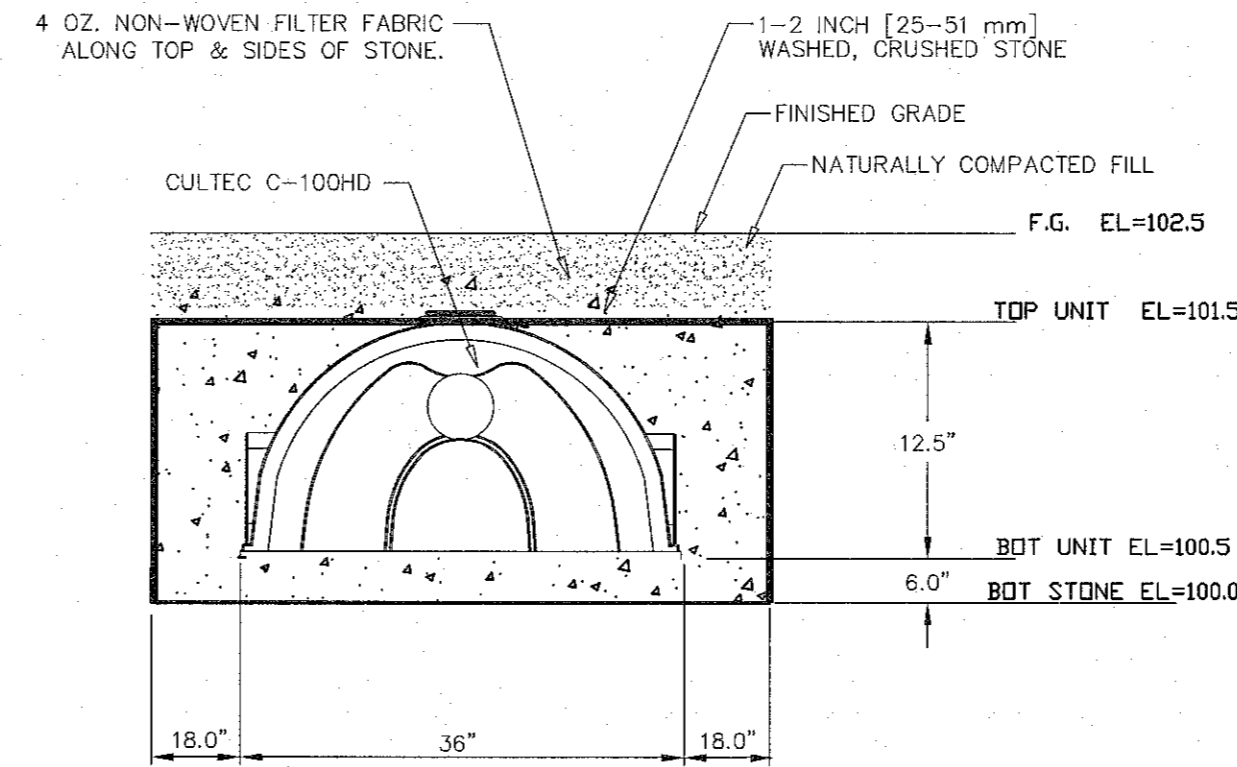
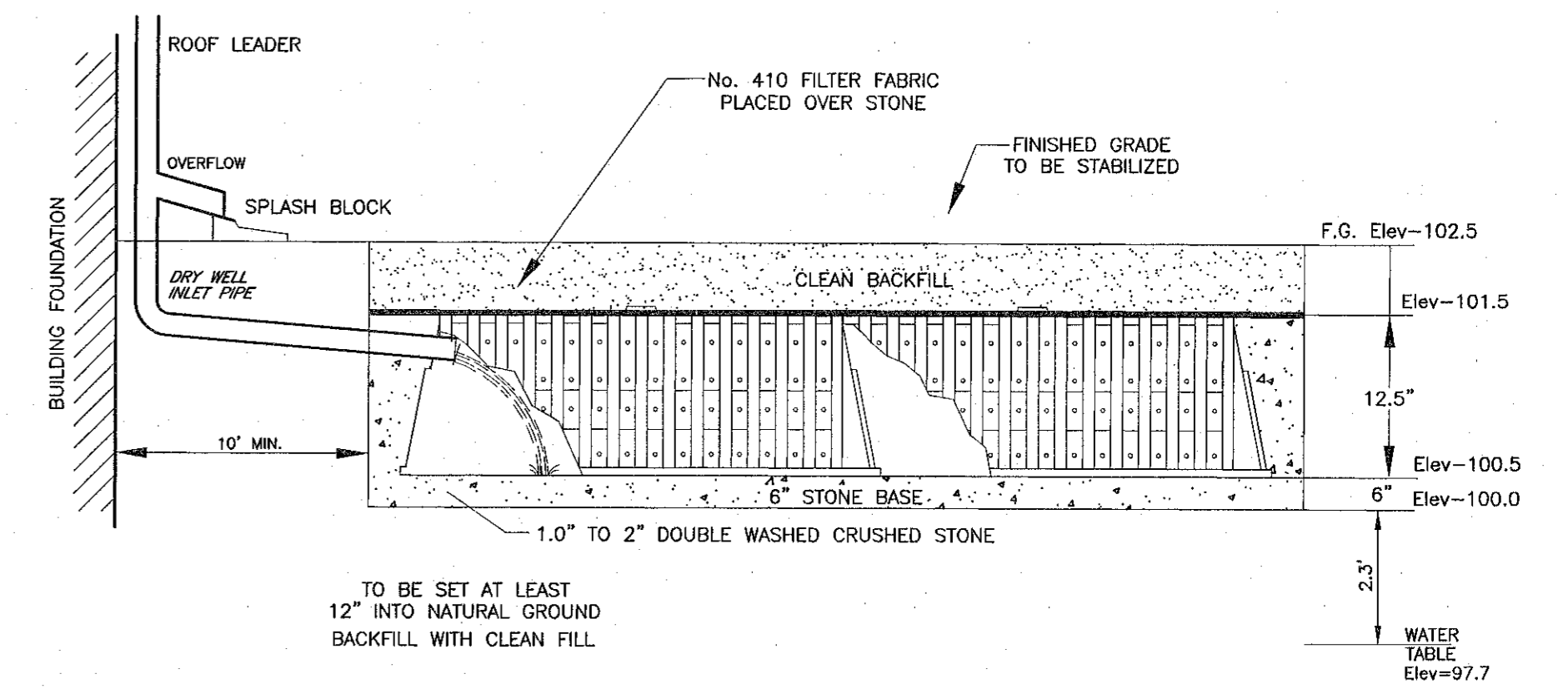


**DRAINAGE SYSTEM CALCULATIONS**  
ALL ROOF RUNOFF TO BE DIRECTED TO RECHARGE SYSTEM.

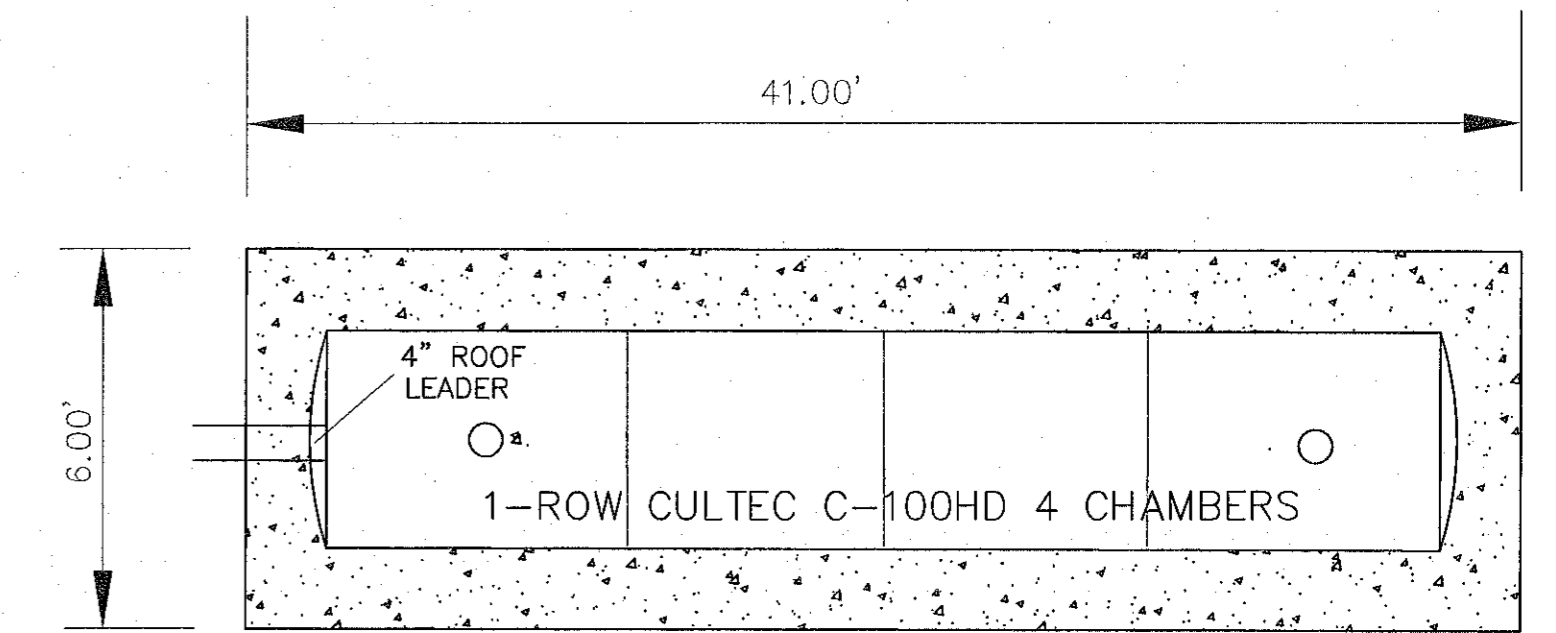
PROPOSED ROOF AREA = 1,774 S.F.

VOLUME REQUIRED FOR 1" OF RUNOFF OVER ROOF AREA:  
1,774 S.F. x 1" = 148 C.F.

VOLUME PROVIDED CULTEC RECHARGER DRAINAGE SYSTEM:  
CULTEC RECHARGER C-100HD 4-UNITS  
STORAGE VOLUME PROVIDED = CHAMBER + STONE STORAGE  
= 70.7 cu.ft. + 123.4 cu.ft. = 194.1 cu.ft.



1-ROW CULTEC C-100HD 4 CHAMBERS



PLAN VIEW

**CULTEC DRY WELL SYSTEM FOR ROOF RUNOFF INFILTRATION**  
**CULTEC CONTRACTOR 100HD**

N.T.S.

AS ADDITIONAL MITIGATION FOR WETLAND BUFFER ZONE ACTIVITY, THE PROJECT WILL INCLUDE INVASIVE SPECIES MANAGEMENT.

- NOTES:**
- The applicant is proposing to reduce the prevalence of invasive species within the wetland buffer zone along the northerly side and easterly sides of the property.

- The undesirable species in this area include:
- Tatarian honeysuckle (*Lonicera tatarica*)
  - Glossy Buckthorn (*Frangula alnus*)
  - Oriental Bittersweet (*Celastrus orbiculatus*)
  - Japanese Knotweed (*Polygonum cuspidatum*)

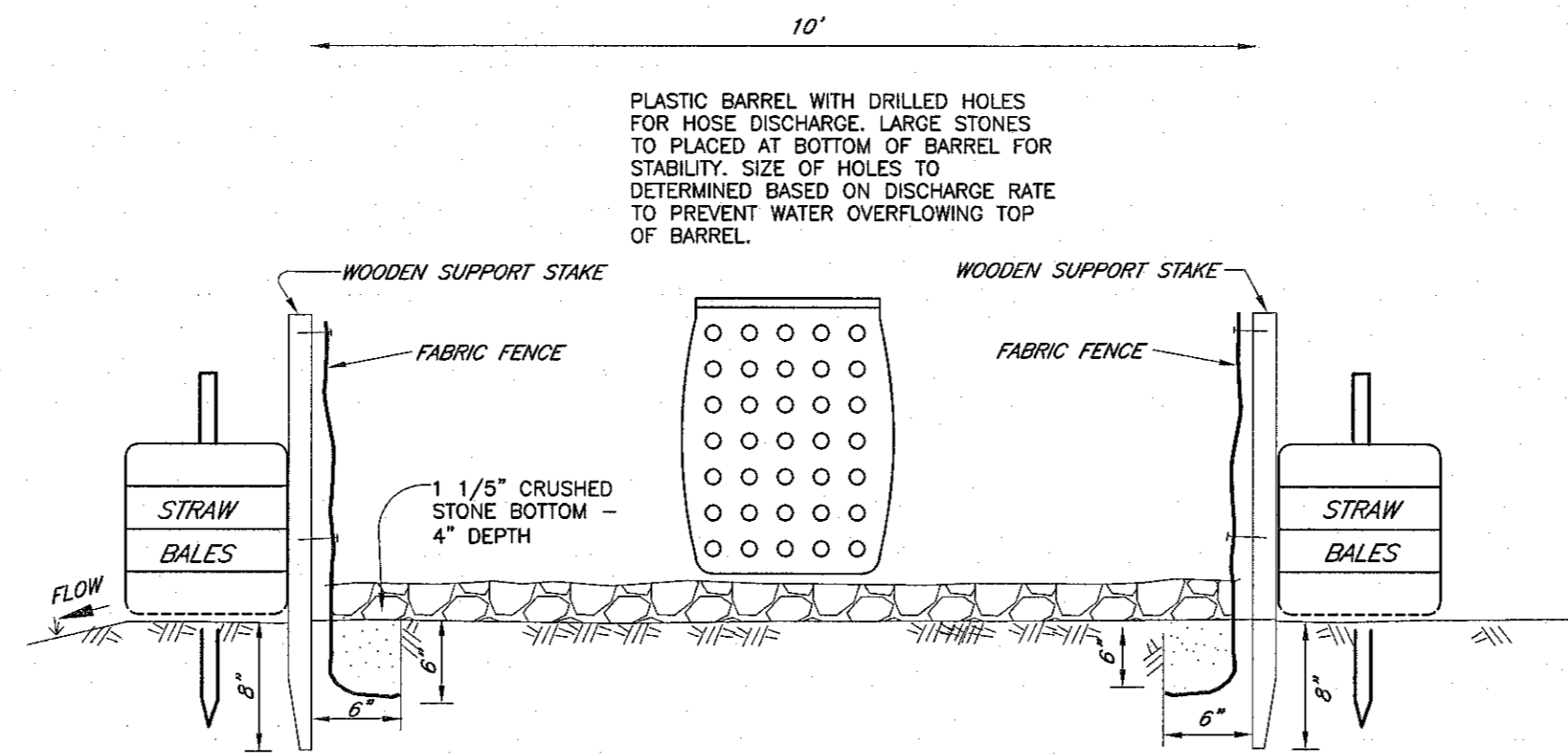
**Methods**

Woody shrubs and vines will be either pried (smaller specimens) using leverage tools (i.e. puller bar, weed wrench, etc.), or they will be cut and the stems/trunks will be and painted immediately with concentrated, wetland safe herbicide. Herbicides shall only be applied by a licensed applicator and the product will be approved by the Conservation Commission prior to use. The area will be monitored for re-sprouts or missed plants during the build out of the project; undesirable vegetation can be treated with a dilute herbicide solution (usually 2%) applied to the leaves during the mid-late growing season.

All woody or herbaceous materials will be removed from the site and disposed of so as not to foster propagation of these species elsewhere; either buried or properly composted, as appropriate. During the build out of the project, the areas of invasive treatment will be inspected and spot treated by either mechanical or legally applied chemical means so that at the closure of the Order of Conditions, the property will have benefited from one or more years of invasive species management that will diminish the prevalence of these species.

**Invasive Vegetation Management for Habitat Improvement**

- Remove small undesirable shrubs via wrenching tool as practicable.
- Cut woody stems with licensed application of herbicide.
- Legally dispose of all salvage vegetation.
- Monitor for re-sprouts and spot treat/maintain treatment through issuance of Certificate of Compliance.

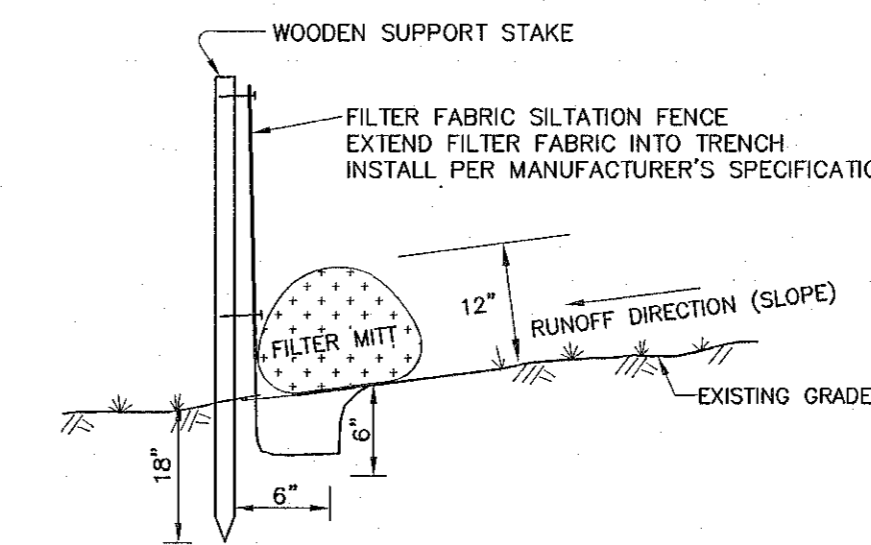


**DE-WATERING:**

IN THE EVENT DE-WATERING IS REQUIRED, GROUNDWATER WILL BE PUMPED FROM THE EXCAVATION AND DISCHARGED INTO A DESIGNATED DE-WATERING AREA AS SHOWN ON THE PLAN. THE DESIGN ENGINEER AND THE SUDBURY CONSERVATION AGENT SHALL BE NOTIFIED PRIOR TO DE-WATERING.

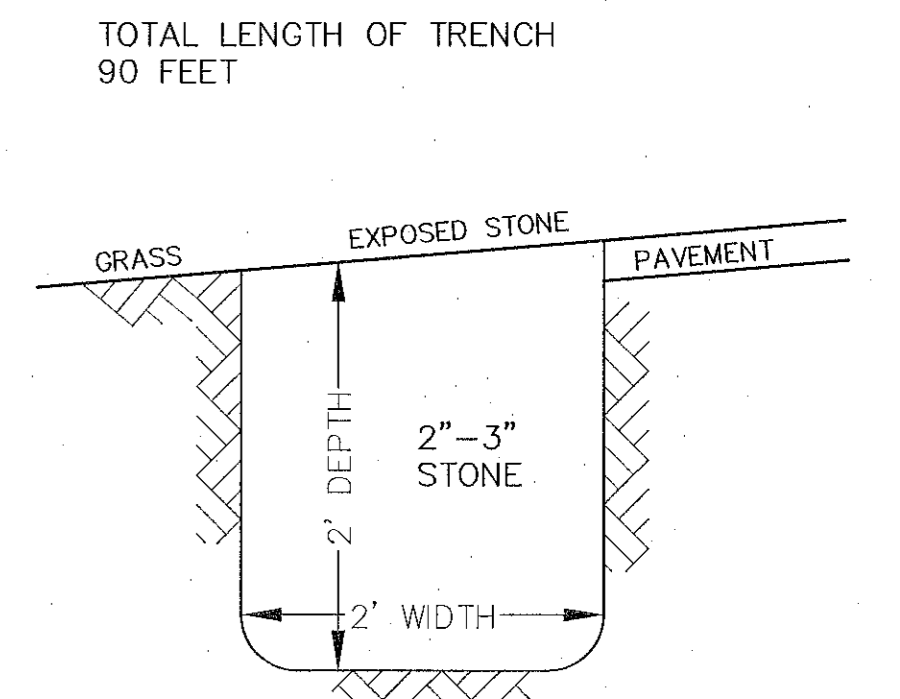
**DE-WATERING DETAIL**

N.T.S.



**EROSION CONTROL BARRIER FILTER MITT W/ SILT FENCE**

N.T.S.



STONE DRAIN TO BE INSTALLED ON DOWNHILL EDGE OF DRIVEWAY. TRENCH TO BE LINED WITH FILTER FABRIC.

**INFILTRATION TRENCH DETAIL**

N.T.S.

**REVISIONS**

No.	DATE	DESCRIPTION
7	1/27/2023	REVISED PORCH
8	5/1/2023	REVISED HOUSE DIMENSIONS
9	7/6/2023	REVISED PER COMMENTS
10	8/4/2023	REVISED IMPERVIOUS CALCULATION
11	8/25/2023	REVISED ROOF RECHARGE SYSTEM

12. DRAFTING CORRECTION SHEET 2 OF 3 (9/5/23)

**DIG SAFE**

NOTE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. DIGSAFE IS TO BE NOTIFIED 72 WORKING HOURS IN ADVANCE OF CONSTRUCTION. DIGSAFE 1-888-344-7233

No.	DATE	DESCRIPTION	FLD.:
1	8/10/2022	DRAINAGE, GRADING, SEPTIC DETAILS	RC, ML
	9/1/2022	STORMWATER, PLANTING	DRW.:
3	9/16/2022	REDUCE HOUSE, CALCS	JEH
4	10/10/2022	CONCOM COMMENTS	CHKD.:
5	10/21/2022	TOWN ENG. COMMENTS/RET. WALL	RST

Professional Engineer Seal for Joyce E. Hastings, No. 39393, State of Massachusetts.

Professional Engineer Seal for Robert S. Truax, No. 55507, State of Massachusetts.

**GLM Engineering Consultants, Inc.**

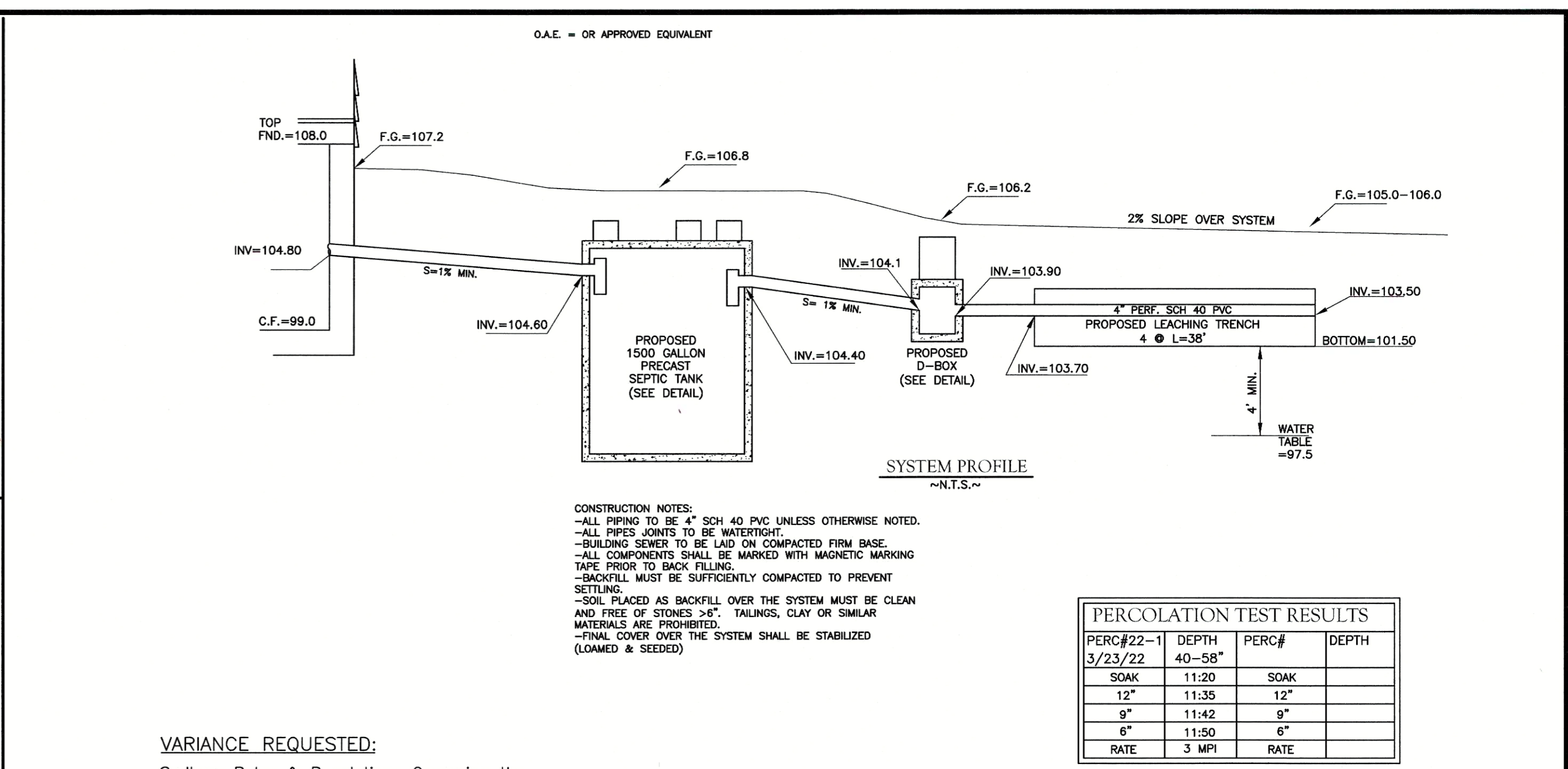
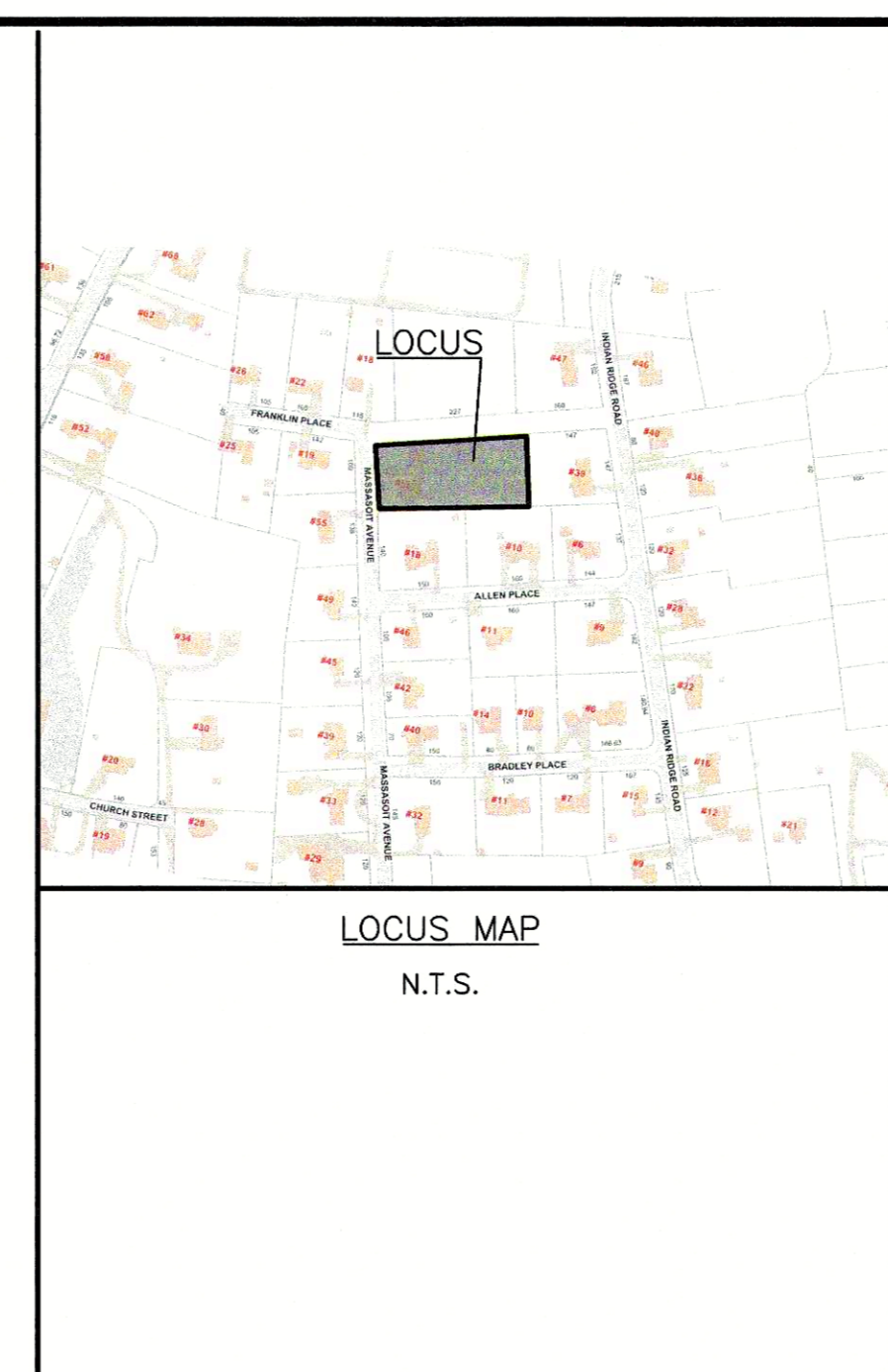
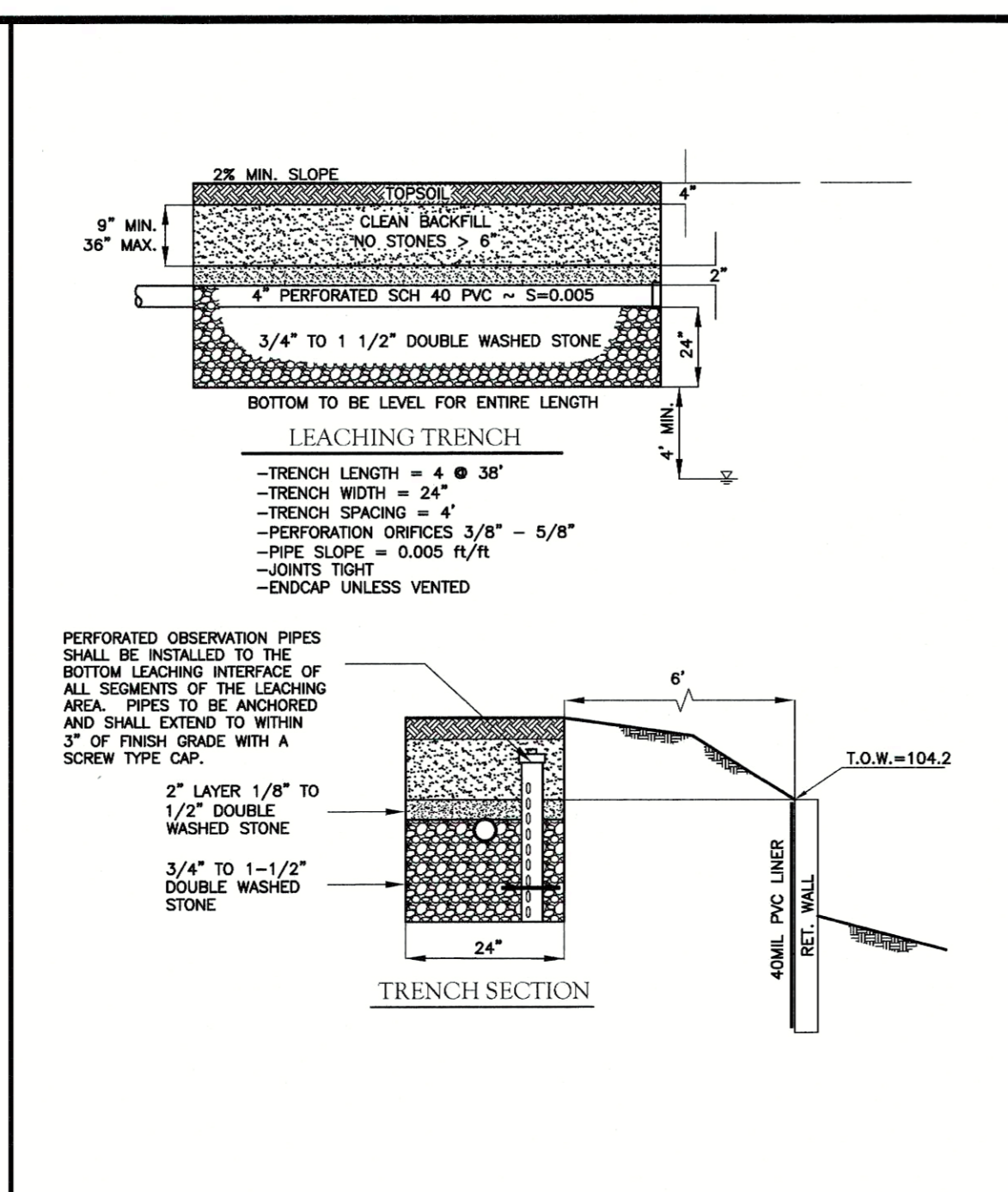
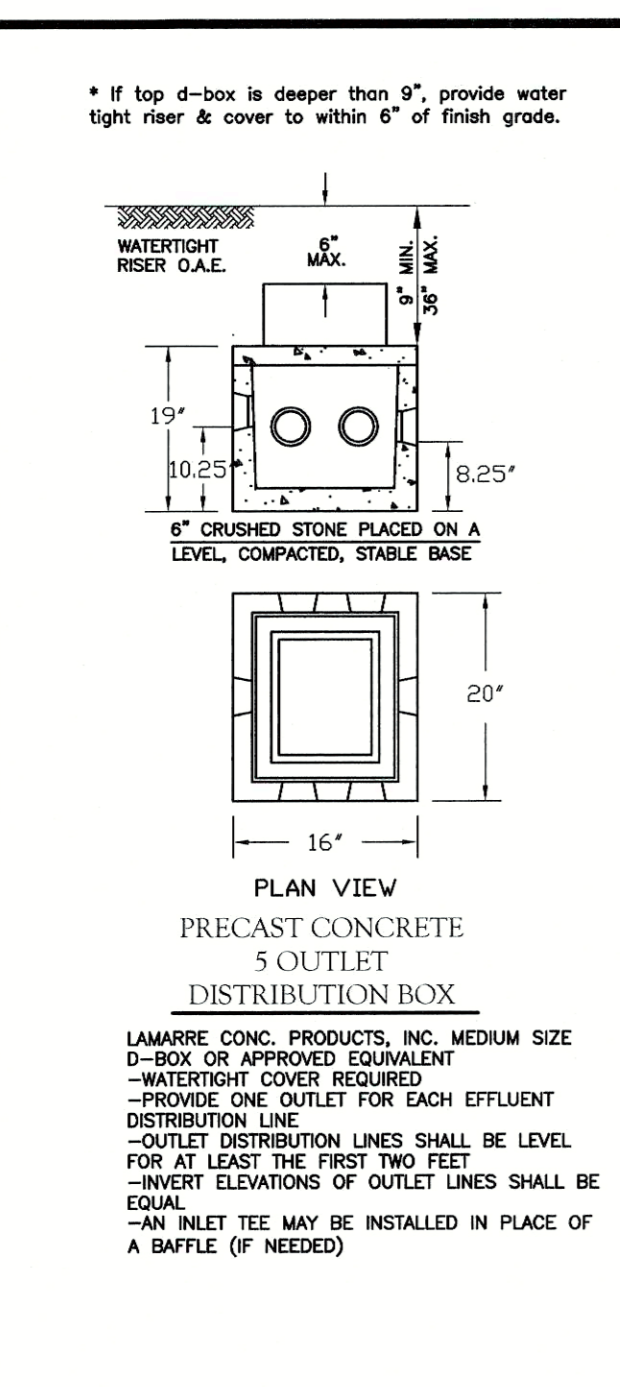
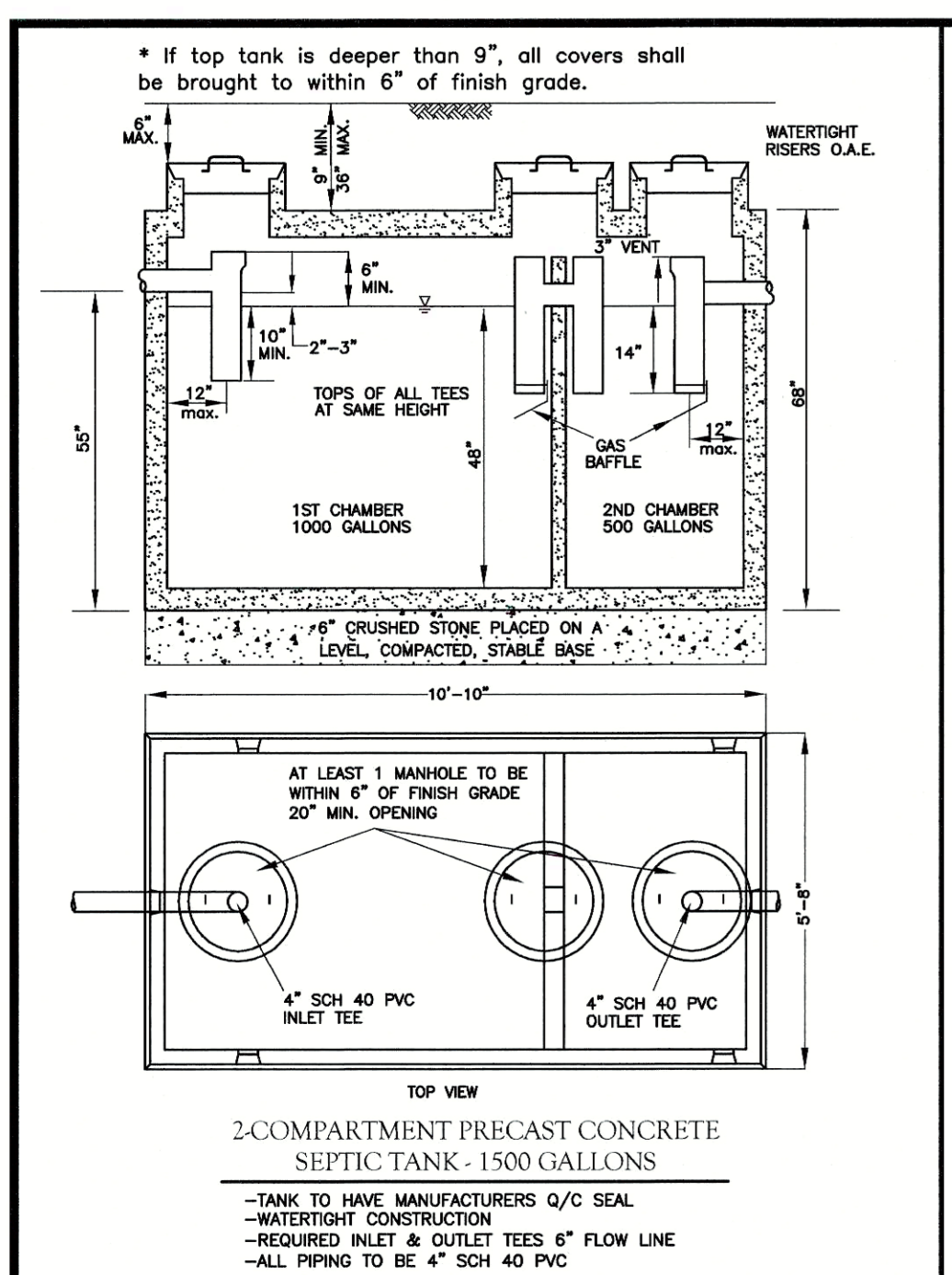
19 EXCHANGE STREET  
HOLLISTON, MA 01746

P: 508-429-1100 F: 508-429-7160  
www.GLMengineering.com

**PROPOSED HOUSE LOCATION PLAN**  
**"58 MASSASOIT AVENUE"**  
**SUDBURY, MASSACHUSETTS**

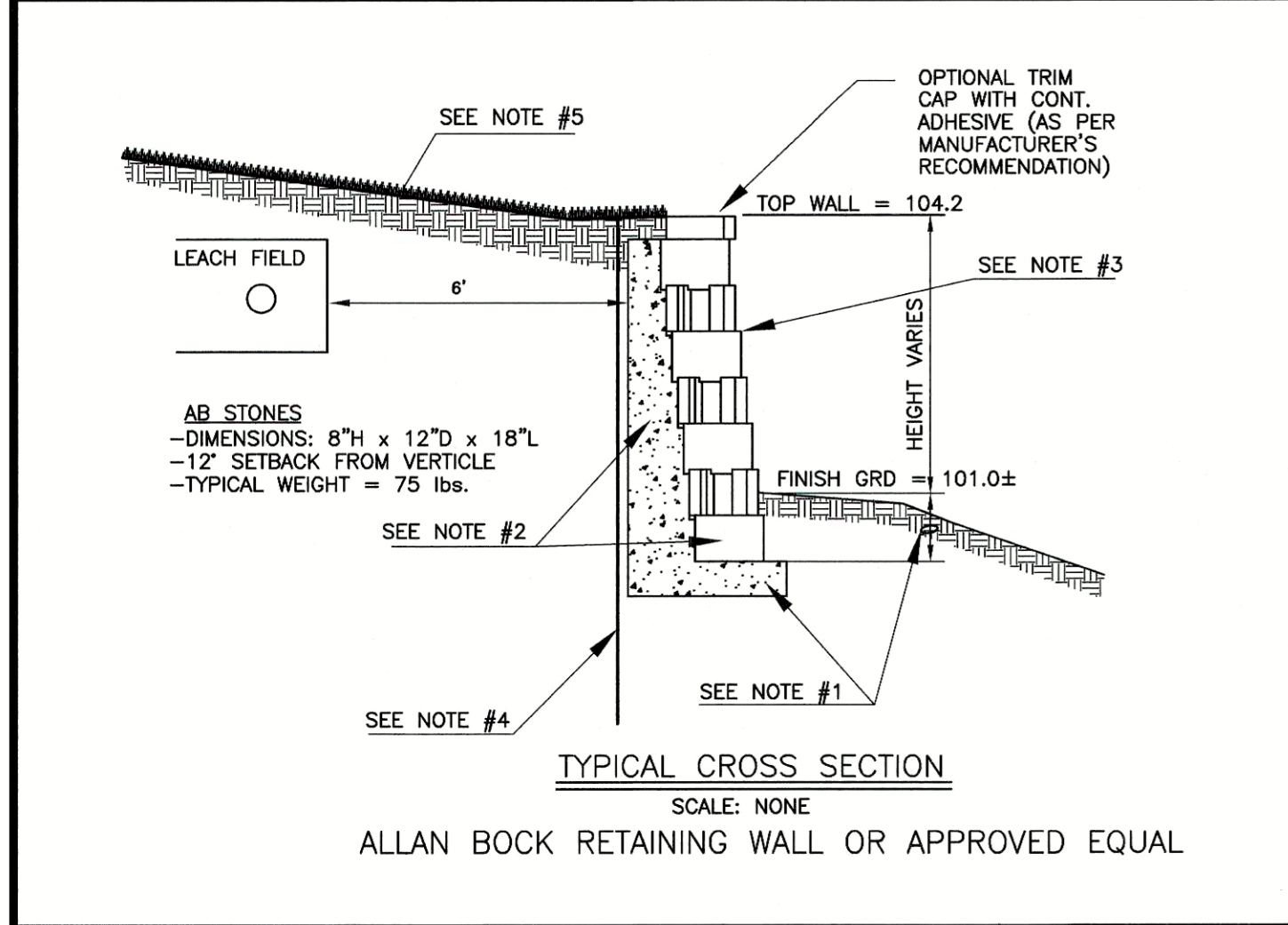
APPLICANT:  
JBJS CHARLES, LLC  
15 EDWARDS LANE  
QUINCY, MA 02169

JOB No.	17,240
DATE:	7/6/2022
SCALE:	1"=20'
SHEET:	2 of 3
PLAN #:	27,611

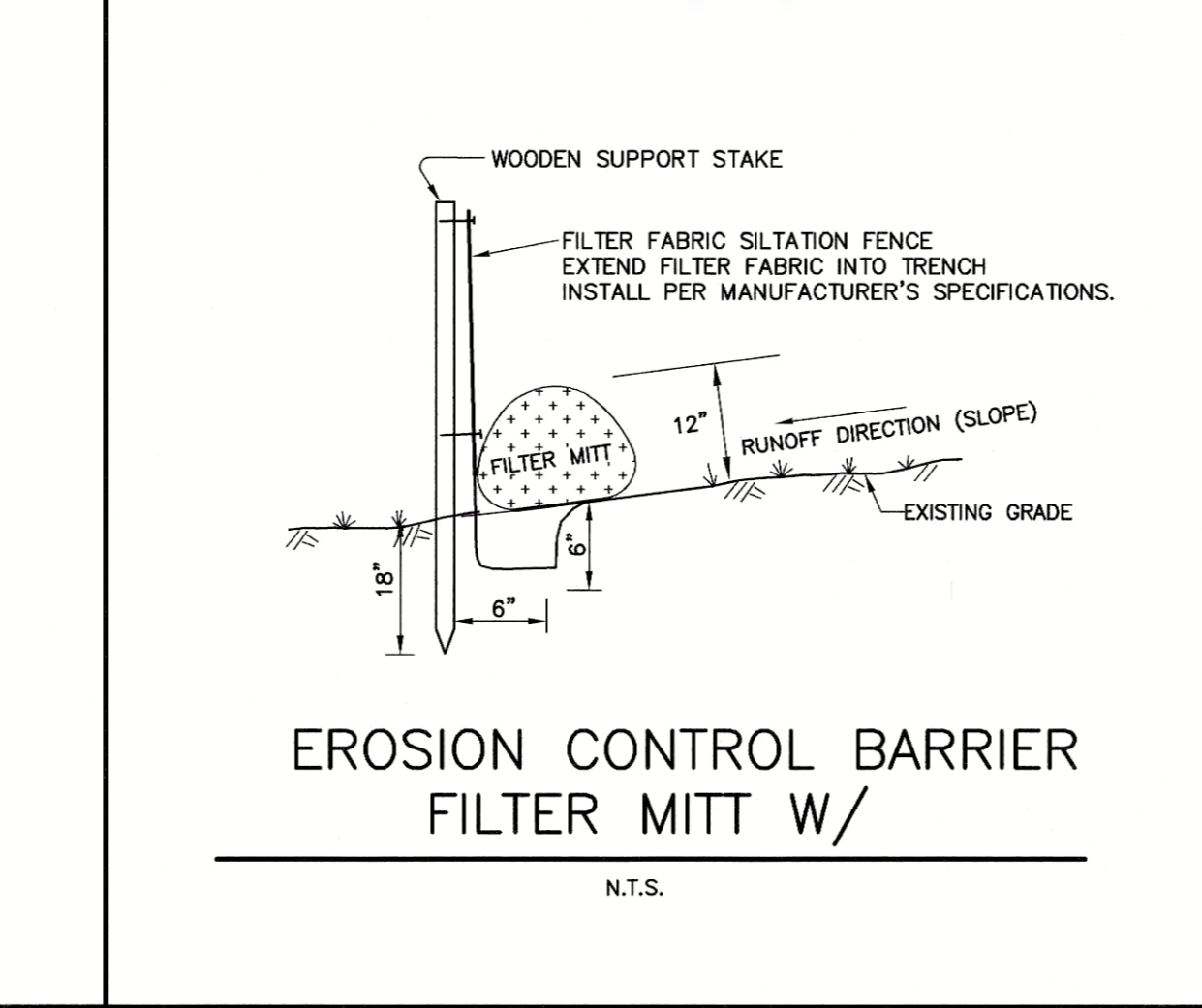


CONSTRUCTION NOTES:  
 -ALL PIPING TO BE 4" SCH 40 PVC UNLESS OTHERWISE NOTED.  
 -ALL PIPES JOINTS TO BE WATER TIGHT.  
 -BUILDING SEWER TO BE LAID ON COMPACTED FIRM BASE.  
 -ALL COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE PRIOR TO BACK FILLING.  
 -BACKFILL MUST BE SUFFICIENTLY COMPACTED TO PREVENT SETTLING.  
 -SOIL PLACED AS BACKFILL OVER THE SYSTEM MUST BE CLEAN AND FREE OF STONES > 2" IN DIAMETER, CLAY OR SHALTS.  
 -MATERIALS ARE PROHIBITED.  
 -FINAL COVER OVER THE SYSTEM SHALL BE STABILIZED (LOAMED & SEEDED)

PERC#	DEPTH	PERC#	DEPTH
PERC#22-1	40'-58"		
3/23/22	11:20	SOAK	
	12"	11:35	12"
	9"	11:42	9"
	6"	11:50	6"
RATE	3 MPI	RATE	



**RETAINING WALL NOTES:**  
 #1 - BASE TRENCH & BASE MATERIAL  
 TRENCH TO BE 18" WIDE AND MUST INCLUDE THE REMOVAL OF ANY ORGANIC/FILL MATERIAL. BASE MATERIAL IS ANY CLEAN, COMPACTIBLE GRANULAR MATERIAL 1/4"-3/4" DIAMETER. PLACE AT LEAST 12" OF BASE MATERIAL IN THE TRENCH AND COMPACT WITH A MECHANICAL PLATE COMPACTOR. BASE MUST BE LEVEL. A THIN LAYER OF SAND MAY BE USED TO MAKE LEVELING EASIER. A CONCRETE LEVELING PAD MAY BE USED INSTEAD OF USING BASE MATERIAL.  
 #2 - BASE COURSE AND DRAINAGE MATERIAL  
 LAY BASE COURSE BLOCKS CHECKING FOR STRAIGHTNESS AND LEVEL. FILL THE BLOCK HOLLOW CORES AND 6"-8" BEHIND BLOCKS WITH DRAINAGE MATERIAL (SAME AS BASE MATERIAL). USE A PLATE COMPACTOR TO COMPACT THE AGGREGATE IN THE BLOCKS AND BEHIND THE WALL. RUN COMPACTOR OVER TOP OF BLOCKS FIRST, THEN OVER DRAINAGE MATERIAL.  
 #3 - SECOND COURSE AND ADDITIONAL COARSE  
 STACK NEXT ROW OF BLOCKS, AND EACH ADDITIONAL ROW, WITH SEAMS OFFSET FROM THE BLOCKS BELOW. CHECK FOR STRAIGHTNESS & LEVEL. FILL HOLLOW CORES AND 6"-8" BEHIND BLOCKS WITH DRAINAGE MATERIAL AND COMPACT.  
 #4 - IMPERVIOUS BARRIER  
 INSTALL A 40 MIL HOPE MEMBRANE BEHIND DRAINAGE MATERIAL. TOP OF LINER ELEV=104.0, BOT LINER ELEV=100.0  
 #5 - SLOPE STABILIZATION  
 AREA BETWEEN RETAINING WALL AND LEACH FIELD, AREA OVER LEACH FIELD AND ANY OTHER DISTURBED AREAS SHALL BE LOAMED & SEEDED. ALL HEAVY EQUIPMENT MUST BE KEPT AT LEAST 3 FEET FROM THE BACK OF THE WALL. WALL DESIGN DOES NOT ACCOUNT FOR SURCHARGES FROM HEAVY COMPACTION EQUIPMENT.



**EROSION CONTROL BARRIER FILTER MITT W/**  
 N.T.S.

**VARIANCE REQUESTED:**  
 Sudbury Rules & Regulations Governing the Subsurface Disposal of Sewage.  
 Section X. Retaining Walls:  
 Request a variance to install a retaining wall in lieu of the slope requirement as detailed in Title V.

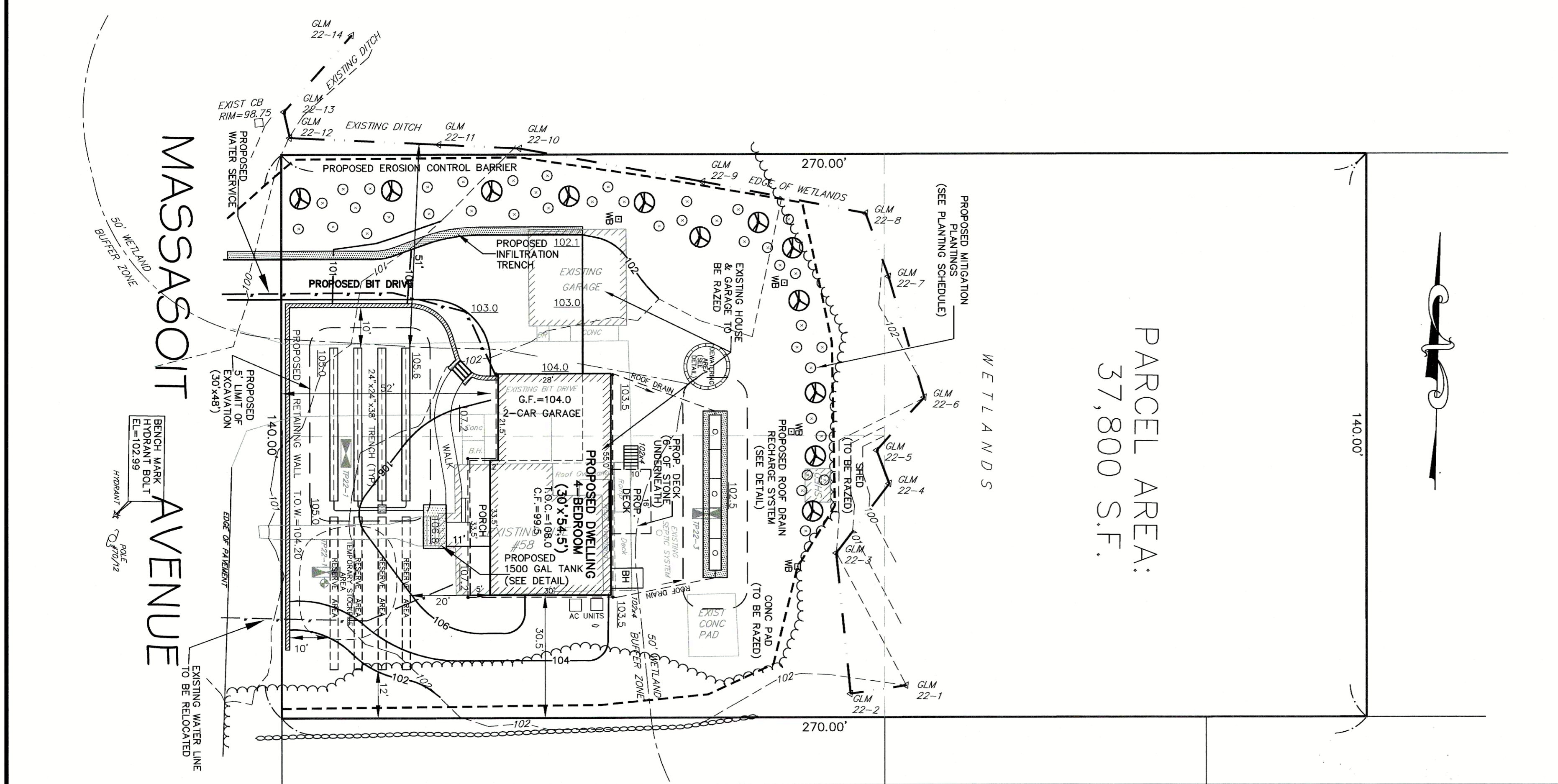
- NOTES:  
 1. EXISTING TANK SHALL BE PUMPED CLEAN, CRUSHED, FILLED WITH GRAVEL AND ABANDONED PER TITLE 5.  
 2. ANY CONTAMINATED MATERIAL ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED AND PROPERLY DISPOSED.  
 3. EXISTING DWELLING TO BE RAZED.

DEEP HOLE -- 22-1	DATE: 3/23/22	ELEV.
0'	FILL	101.5
26'	A SANDY LOAM 10YR3/2	
32'	Bw SANDY LOAM 10YR5/6	98.3
38'	C1 SAND Fine Sand 2.5Y/4	96.2
64'	GROUNDWATER OBSERVED	91.5
120'	GROUNDWATER OBSERVED	96.5
48'	SOIL MOTTLING	97.5
48'	GROUNDWATER MONITORED	
48'	ESTIMATED SEASONAL HIGH GROUNDWATER	97.5

DEEP HOLE -- 22-2	DATE: 8/30/22	ELEV.
0'	FILL	101.8
42'	A SANDY LOAM 10YR3/2	98.3
64'	Bw SANDY LOAM 10YR5/6	96.2
92'	C2 SAND Med-Coarse 2.5Y/3	94.5
54'	GROUNDWATER OBSERVED	97.1
54'	SOIL MOTTLING	97.7
54'	GROUNDWATER MONITORED	
54'	ESTIMATED SEASONAL HIGH GROUNDWATER	97.7

DEEP HOLE -- 22-3	DATE: 8/30/22	ELEV.
0'	FILL	102.2
48'	FILL	98.2
54'	B SANDY LOAM 10YR5/6	97.7
92'	C2 SAND Med-Coarse 2.5Y/3	94.5
54'	GROUNDWATER OBSERVED	97.1
54'	SOIL MOTTLING	97.7
54'	GROUNDWATER MONITORED	
54'	ESTIMATED SEASONAL HIGH GROUNDWATER	97.7

CERTIFIED SOIL EVALUATOR : ROBERT TRUAX  
 WITNESSED BY B.O.H. AGENT : ROBERT LAZO  
 DESIGN PERCOLATION RATE : 3.0 M.P.I.  
 SOIL CLASSIFICATION: CLASS I



ASSESSOR'S REFERENCE:  
 PARCEL ID: K09-0425  
**\*NO GARBAGE GRINDER ALLOWED**  
**NEW CONSTRUCTION**

**TYPE OF FACILITY SERVED:**  
 SINGLE FAMILY DWELLING - 4 BEDROOMS  
 DESIGN FLOW :  
 4 BEDROOMS x 110 GAL./DAY/BEDROOM = 440 G.P.D.  
**SEPTIC TANK SIZING:**  
 DESIGN FLOW x 200%  
 440 GAL. x 200% = 880 GALLONS  
**SEPTIC TANK PROPOSED: 1500 GALLON 2-COMPARTMENT**

**SYSTEM SIZING CALCULATIONS:**  
 GARBAGE GRINDER: NO  
 DESIGN FLOW = 440 GPD  
 EFFLUENT LOADING RATE = 0.74 GPD/SF  
 LEACHING AREA REQUIRED (Sudbury BOH): 150 sf/bedroom  
 LEACHING AREA REQUIRED = 150 x 4 = 600 s.f. (Sidewall Area)  
**SYSTEM DESIGN**  
 LEACHING TRENCHES - 4 @ 38' L x 24" W x 24" H  
 SIDEWALL AREA = 8 x 38' x 24" = 608 S.F.  
 LEACHING AREA PROVIDED:  
 SIDEWALL AREA = 608 S.F.  
 BOTTOM AREA = 304 S.F.  
 FLOW PROVIDED = 912 S.F. x 0.74 GAL./S.F. = 674 G.P.D.

**LEGEND**  
 ---168--- EXISTING CONTOUR ELEVATION  
 ---166--- PROPOSED CONTOUR ELEVATION  
 [Symbol] DEEP TEST SOIL PIT  
 [Symbol] PERCOLATION TEST  
 [Symbol] PROPOSED SPOT ELEVATION

-NO PUBLIC WELLS WITHIN 400 FEET EXCEPT AS SHOWN.  
 -NO PRIVATE WELLS WITHIN 200 FEET EXCEPT AS SHOWN.  
 -NO WETLANDS, INLAND BANKS, OR SURFACE WATERS WITHIN 150 FEET EXCEPT AS SHOWN.  
 -NO SURFACE WATER SUPPLIES WITHIN 400 FEET EXCEPT AS SHOWN.  
 -NO SURFACE DRAINS EXCEPT AS SHOWN.  
 -NO SURFACE OR SUBSURFACE DRAINS WHICH INTERCEPT GROUND WATER EXCEPT AS SHOWN.  
 -LOCATION OF FLOODWAY SHOWN IF ANY.  
 -NO 100 YEAR FLOOD LIMIT, EXCEPT IF SHOWN.  
 -SITE IS NOT WITHIN A NITROGEN SENSITIVE AREA.

IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT AND OR CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. ALL UTILITIES WITHIN A BUILDING SHALL BE REVIEWED BY THE APPROPRIATE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY INTERIOR OR EXTERIOR WORK. DIG SAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION (1-888-344-7233)

Soil Evaluator Certification: I certify that I am currently approved by the D.E.P. pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation are accurate and in accordance with 310 CMR 15.100 through 15.107. C.S.E. #2476

**GENERAL CONSTRUCTION NOTES:**  
 1. THE DETAILS SHOWN ARE GENERAL IN NATURE AND ARE NOT INTENDED TO SHOW EVERY POSSIBLE INSTALLATION REQUIREMENT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE IN THE REFERENCED CODES, INSTALLATION REQUIREMENTS AND PROVIDE NECESSARY LABOR, MATERIALS AND EQUIPMENT TO INSTALL A FUNCTIONAL SYSTEM.  
 2. COMPONENTS SHALL NOT TO BE BACKFILLED OR CONCEALED WITHOUT INSPECTION BY AND PERMISSION FROM BOARD OF HEALTH.  
 3. IT IS THE RESPONSIBILITY OF THE APPLICANT TO OBTAIN THE SERVICES OF THE DESIGN ENGINEER TO PROVIDE PROPER INSPECTIONS FOR CERTIFICATIONS AND AS-BUILT PLANS.  
 4. INSTALLER REQUIRED TO PROVIDE PROPER CERTIFICATION.  
 5. LEACHING AREA TO BE FLAGGED FOR PROTECTION UNTIL CERTIFICATE OF COMPLIANCE IS OBTAINED.  
 6. NO STOCKPILING OF MATERIALS OVER SYSTEM.  
 7. NO TRAFFIC OR PARKING OVER SYSTEM.  
 8. BOTTOM AND SIDES OF EXCAVATION AREA SHALL BE SCARIFIED.  
 9. PLACEMENT OF FILL SHALL BE DONE BY STOCKPILING AT THE EDGE OF THE EXCAVATION AREA AND PUSHED OR CAST IN PLACE.  
 10. FILL SHALL NOT BE PLACED IN THE EXCAVATION AREA DURING RAIN OR SNOW STORM.  
 11. IF ANY FILL IS TO BE PLACED BELOW THE WATER TABLE, DEWATERING IS REQUIRED PRIOR TO PLACEMENT.

**TO ENSURE THE PERFORMANCE OF THE SYSTEM, MAINTENANCE SHOULD BE PERFORMED ANNUALLY BY A LICENSED SEWAGE PUMPING CONTRACTOR.**

GLM ENGINEERING CONSULTANTS, INC. WILL NOT BE RESPONSIBLE FOR THE PERFORMANCE OF THIS SYSTEM UNLESS CONSTRUCTED AND INSPECTED IN ACCORDANCE WITH THIS PLAN. INSPECTIONS TO BE DONE AFTER EXCAVATION FOR SYSTEM AND AFTER CONSTRUCTION, BUT PRIOR TO BACKFILLING. ANY ALTERATION MUST BE APPROVED IN WRITING BY GLM ENGINEERING CONSULTANTS, INC.

**5' LIMIT OF EXCAVATION (30' x 90')**  
 ALL TOPSOIL, SUBSOIL AND ANY DELETERIOUS MATERIAL MUST BE REMOVED FROM THE AREA OF THE SYSTEM AND OTHER DESIGNATED LIMITS AND FILLED WITH APPROVED, CLEAN, GRANULAR SAND. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES AND BE GRADED SO NOT MORE THAN 45% OF THE SAMPLE IS RETAINED IN A #4 SIEVE, OF THAT PASSING, 20% OR LESS SHALL PASS A #100 SIEVE AND 5% OR LESS SHALL PASS THE #200 SIEVE. NOT MORE THAN 90% SHALL BE RETAINED ON THE #50 SIEVE. SAMPLE FOR SIEVE ANALYSIS TO BE TAKEN FROM SAMPLE IN PLACE.

ALL CONSTRUCTION & COMPONENTS SHALL CONFORM TO THE LATEST REQUIREMENTS OF 310 CMR 15.000 TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND THE TOWN OF SUDBURY BOARD OF HEALTH REGULATIONS.

**BENCH MARK** FRONT HYDRANT BOLT: EL=102.99  
 (DATUM = ASSUMED)

**PROPOSED SEWAGE DISPOSAL SYSTEM**  
**58 MASSASOIT AVE**  
**SUDBURY, MASSACHUSETTS**

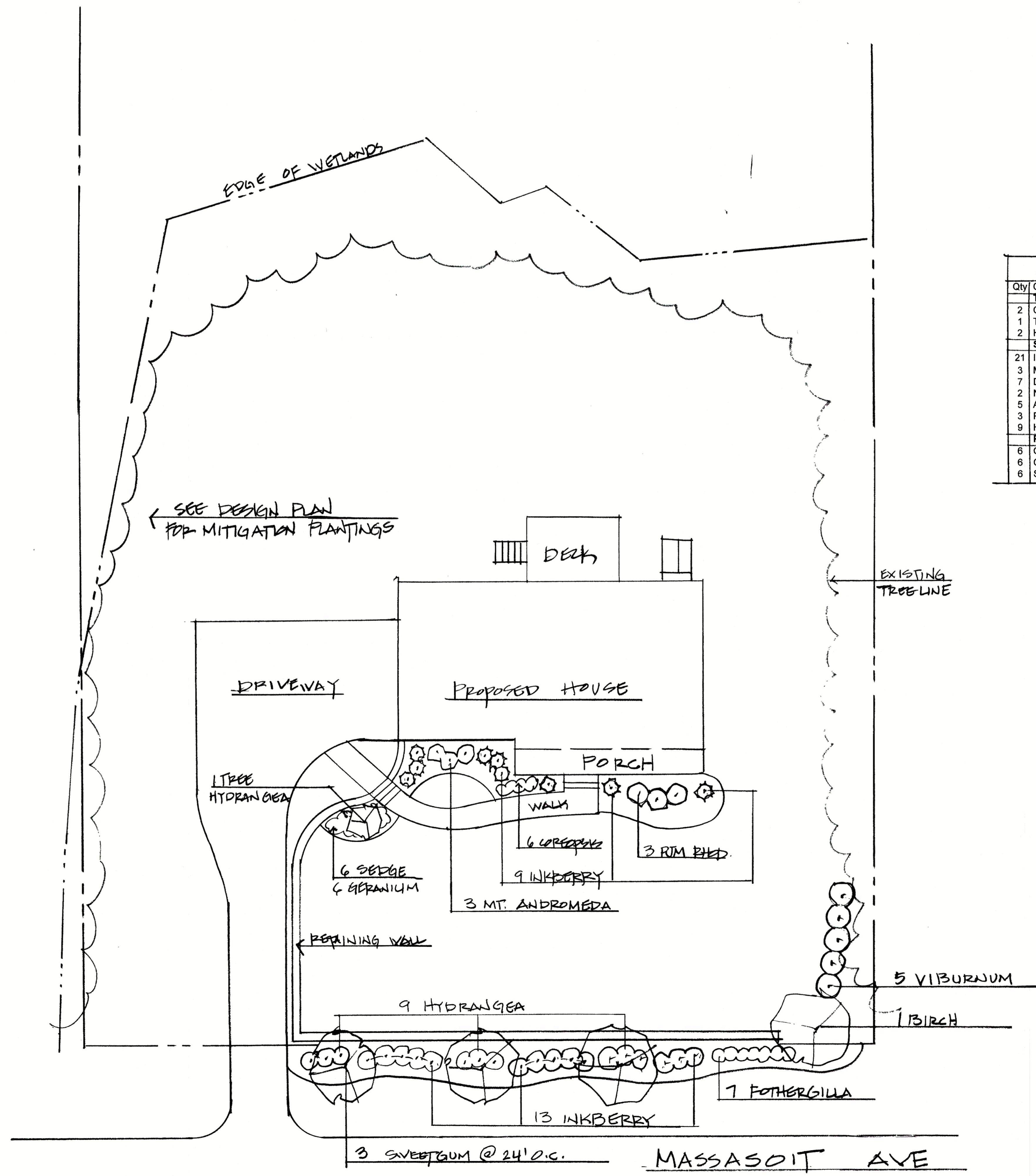
APPLICANT:  
 UNIVERSAL J&S CONST INC  
 15 EDWARDS LANE  
 QUINCY, AM 02169

GLM Engineering Consultants, Inc.  
 19 EXCHANGE STREET  
 HOLLISTON, MA 01746  
 P: 508-429-1100  
 F: 508-429-7160  
 www.GLMengineering.com

DATE: MAY 16, 2022  
 REVISED:  
 JANUARY 27, 2023  
 5/1/2023 7/6/2023 8/4/2023  
 8/25/2023

DES: RST SCALE: 1" = 20' JOB #17,240 SHEET #3 of 3

PROFESSIONAL CIVIL ENGINEER **58 MASSASOIT AVE**



Landscape Plant List- 8/25/23			
Qty	Common Name	Latin Name	Size
<b>Trees</b>			
2	Cherokee Sweetgum	Liquidambar styraciflua 'Ward'	2 5" Caliper
1	Tardiva Tree Hydrangea	Hydrangea paniculata -Tree Form	10 Gallon
2	Heritage River Birch	Betula nigra 'Heritage'	12' clump
<b>Shrubs</b>			
21	Ilex glabra	Inkberry	5 Gallon
3	Mountain Andromeda	Pieris floribunda	5 Gallon
7	Dwarf fothergilla	Fothergilla gardenii	5 Gallon
2	Ninebark	Physocarpus opulifolius	5 Gallon
5	American Cranberry Bush	Viburnum trilobum	5 Gallon
3	PJM Rhododendron	Rhododendron PJM	7 Gallon
9	Hydrangea arborescens 'Incrediball'	Incrediball Hydrangea	5 Gallon
<b>Perennials</b>			
6	Geranium maculatum	Spotted Cranes Bill	1 Gallon
6	Coreopsis lanceolata	Lanceleaf coreopsis	1 Gallon
6	Sedge 'Ice Dance'	Carex morrowii 'Ice Dance'	1 Gallon



**Planting Plan**  
for  
**58 Massasoit Avenue**  
**Sudbury, MA**

Design By:  
**Steven Cosmos, Landscape Architect**  
Natick, MA 508.654-6847

August 2023 Scale 1" = 10'-0"