<u>Highway</u>

- 1. Concrete mix: 4,000 psi concrete, $\frac{3}{4}$ —inch stone, 2 $\frac{1}{2}$ —lbs
- lampblack per cubic yard. 2. Asphalt patches shall have a minimum depth of 5—inches, or match existing road depth.
- 3. All curbing and sidewalk work shall be inspected by the DPW prior
- 4. All work shall comply with ADA requirements.
- 5. Flowable fill required as backfill in the public way.

<u>Water and Sewer</u>

6. Cut and cap existing water and sewer services at the main prior to any building demolition.

- 7. Use of fire hydrants for demolition or construction is not permitted unless approved beforehand by the Department of Public Works.
- 8. Water pipes shall be installed at a minimum depth of 5—feet. 9. A minimum separation of 5—feet is required between all utilities.

<u>Drainage and Stormwater Management</u>

10. All erosion and sediment controls shall be installed and inspected by DPW prior to commencement of any earth moving activities. 11. The Engineer-of-record shall witness installation of any sub-surface infiltration system. If sub-surface soil conditions differ from that shown on the plan, the design shall be modified and resubmitted to the Town for approval prior to continuing installation.

<u>As-built</u>

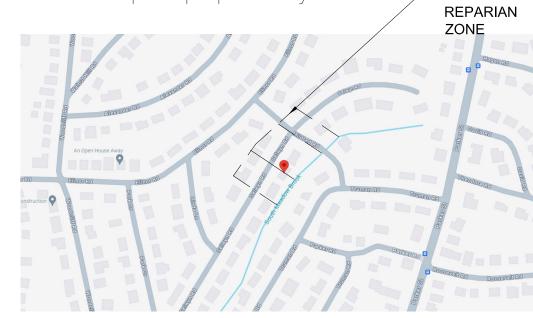
12. Upon completion of the work, as—built drawings shall be submitted in both paper and electronic format. The drawings shall be based upon a field survey of actual as—built locations, and shall be stamped by a Professional Land Surveyor registered in the Commonwealth of Massachusetts.

The as-built drawing shall depict all buildings, paved surfaces, topography, and major landscape features. Water, sewer, and drainage features, as well as other underground utilities installed by others, shall be located on the plan, including size and material.

All stormwater management controls, both structural and non-structural, designed to manage the stormwater associated with the completed site shall also be included.

ARBORIST PLAN:

- 1. NO Dumping of storage materials such as building supplies, soil, waste items, vehicles, or equipment:
- 2. NO Parking or maneuvering vehicles;
- 3. A Certified Arborist will be on site during any and all excavation activities within the TPZ;
- 4. Hand-held concrete removal and digging tools, such as concrete saws, jack—hammers, shovels, or air spades will be used, whereas, seated driven machines such as excavators, backhoes, and the like will not
- 5. No circular pavements will be created around the
- 6. Refer to plan prepared by arborist. 200 FT



LOCUS PLAN - SCALE 1" = 300FT

REQUIRED 1/2" FOR ROOF AREA 1647SF

REQUIRED 1" FOR THE PAVED AREA 573SF -

,	WATER SHEDS — PROPOSED: WS1 — ROOF WS2 — DRIVEWAY WS3 — PATH AND DECK TOTAL PROPOSED IMPERVIOUS AREA		_ _	1,64 ⁻ 42 15 2,22	1SF 52SF
١	WS4 — YARD — Pervious Lawn		_	5,780	OSF
	<u>WATER SHEDS — EXISTING:</u> WS1 — YARD — Pervious Lawn			5,832	2SF
,	WS2 — DRIVE WS3 — ROOF WS4 — PATIO+PATH TOTAL EXISTING IMPERVIOUS AREA		_	4215 1,603 1445 2,168	SF SF
[PROPOSED RECHARGE VOLUME:	2YR		_	99

PROPOSED ROOF & YARD RUNOFF RATES: 2YR - 0.09CFS 25 YR - 0.21 100YR - 0.43ALL ROOF RUNOFF SENT TO LEACHING FIELD AND INFILTRATED IN TO THE GROUND DRIVEWAY & PATH RUNOFF DISCARDED: 2YR - 0.01CFS- REDUCED 96% 25 YR - 0.03CFS- REDUCED 94% 100YR - 0.04CFS- REDUCED 96% EXISTING RUNOFF RATES: 2YR - 0.26CFS 25 YR - 0.56 100YR - 1.05 ALL RUNOFF SENT TO NEIGHBORS / STREET DOWNSTREAM

LOT AREA: 8000 SF +/-

LOT COVER 22 %

SEE NEWTON

OPEN SPACE 72 %

ORDINANCE REF 1-23

→ UTILITY POLE

DEEP HOLE

100FT RIPARIAN 7NNF

SCALE: 1"= 20'

69CF

48CF

EXISTING 8" SEWER MAIN

FLOOD EL. = 120.4(=FEMA 114)

___ 50FT_BUFFER_ZONE __

EXISTING SEWER

CUT AND PLUG EXISTING

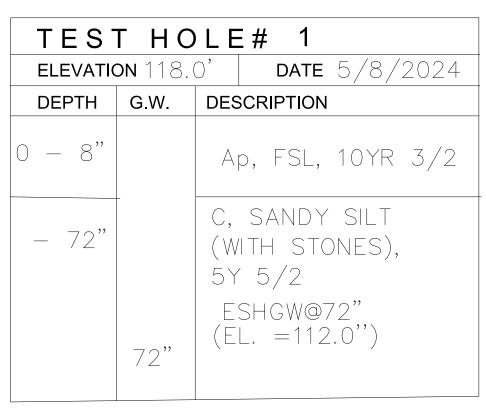
WATER LINE AT STREET AND IN

LINE TO REMAIN

THE PROPERTY

CONC WALK

BACK WALK 111.8



EDGE OF WATER

- S 31°01'19" W

80.00'

EXISTING STOCKABE FENCE INV.114'-10.5"+2'OVER DIG INV.114'-10.5"+2'OVER DIG WP8"

56.4

ROOF 1603 SF

58

FF 121.2

BASEMENT 112.7

S 31°01'19"

80.00

AREA OF ASPHALT

PATCH FOR NEW WATER SERVICE

EXISTING WATER MAIN

PROPOSED SECOND STORY ON SAME FOOTPRINT

SOUTH MEADOWBROOK — CITY DRAIN EASEMENT

R180- RIM-1/18'_

X___112.5'

0 VR

UTILITY POLE (OVERHEAD ELECTRIC)

GAS ----- GAS ------ GAS ------ GAS ------ GAS ------

110,85

30"x30"x18"AREA DRAIN- [

RIM 118' WITH 24"ØGRATE

- INVERT IN/OUT 116'-6"

ELEV ~106'+/-

4"øPVC ROOF DRAIN

25.9' /

8.8

421SF

 $1\frac{1}{4}$ "Ø PROPOSED GATE VALVE

1"=10'

SIEVE ANALYSIS PROVIDED IN STORMWATER REPORT.

FIXTURE VALUES AS PER 240 CMR 10.14

DISTURBANCE

ALL DETAILS ARE COORDINATED TO THE SURVEY

THE FINISH GRADE IS ABOUT 2 FT BELOW THE 100

BASEMENT FLOOR AREA - 954 SF WITH LESS THAN 4 FEET EXPOSURE

1405 + 1488 + 560 = 3453 SF

560 SF

4502 SF

8000 SF

0.43

FAR AS PER ZONING (SR3) 0.41+0.02 + 0.43 OR

0.48-(8000-7000)X0.000023 = 0.48-.023 = 0.447 PROPOSED AREA MEETS THE ZONING

GAS MAIN

CONTOURS AS PER THE NEW SURVEY PLAN.

YR FLOOD ELEVATION. ALL ELEVATIONS ARE

CONVERTED TO NEWTON BASE NGVD88.

FIRST FLOOR AREA - 1405 SF

SECOND FLOOR AREA - 1488 SF

ATTIC FLOOR AREA -

GROSS FLOOR AREA-

FOR LOTS BEFORE 1953

TOTAL AREA —

LOT AREA -

FAR -

111.5

ZONE

BATH TUB -KITCHEN SINK - 1 LAVATORY - 5 SHOWER - 2 LAUNDRY- 1 2 2 TOILETS -TOTAL DEMAND FACTOR = 0.5 23 1 1/4" Ø PIPE IS ADEQUATE FOR THE DEMAND

EXISTING SEWER PIPE 6" DIA SDR 35 IN THE PROPERTY TO REMAIN.

WATER DEMAND & PIPE FLOW: FOUR BEDROOMS EACH @110 GPD = 440 GPD FLOW

EXISTING DRAIN

THE 1 1/4" Ø SERVICE FOR WATER SUPPLY IS ADEQUATE AT 5.87GPM WITH MINIMUM 55 PSI PRESSURE AT THE MAIN. THE 6" PVC DRAIN AT 2% PITCH IS ADEQUATE FOR THE PEAK FLOW OF 320% X 440 = AT 5.87 GPM

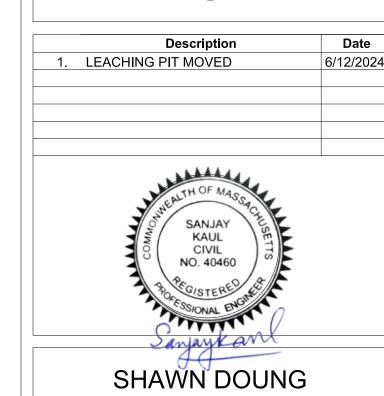
LALA ASSOCIATES **ENGINEERS LLC** 37 OLD VILLAGE ROAD ACTON, MA 01720

(978)337-5252

LALAENGINEERS@GMAIL.COM

CIVIL, ELECTRICAL & STRUCTURAL ENGINEERING SERVICES

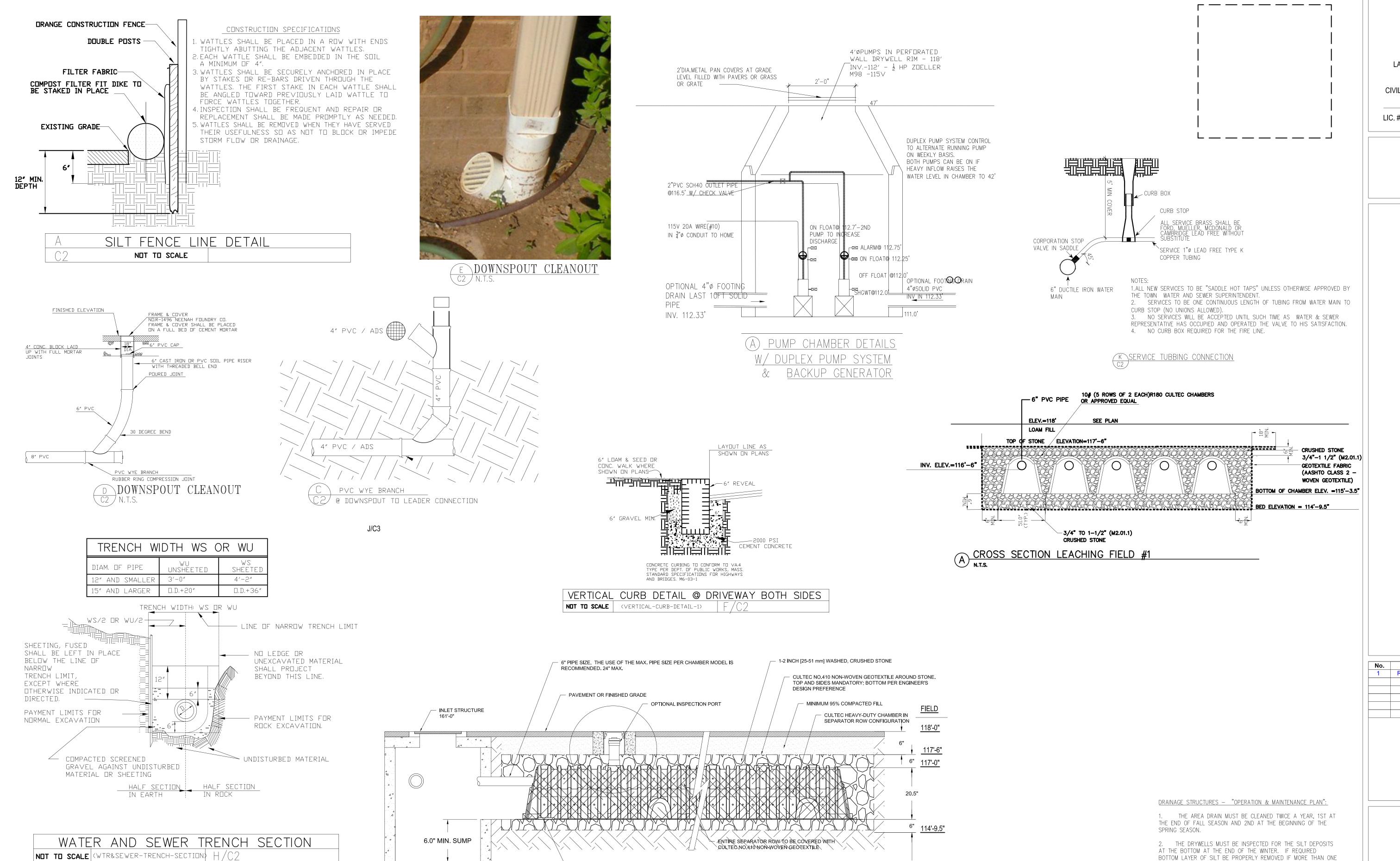
LIC. #40460-C (EXP. DATE 6-30-2026)



DRAINAGE PLAN

24025 Project number 5/24/2024 MC/KL Drawn by Checked by

As indicated



- PLACE 1 LAYER OF CULTEC No. 4800 WOVEN

THE RECHARGER® R-330XLHD LONGITUDINAL SECTION

GEOTEXTILE (7.5' [2.29m] WIDE ROLL) UNDER ALL SEPARATOR ROW CHAMBERS

C2 LEACHING FIELD (ROOF+DRIVEWAY)

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CIVIL, ELECTRICAL & STRUCTURAL ENGINEERING SERVICES

LIC. #40460-C (EXP. DATE 6-30-2026)

No.	Description	Date
1	RESUBMITTED WITH C1 REVISED	6-12-20
	SANJAY KAUL CIVIL NO. 40460 REGISTERED ASSIONAL ENGINE	
	SHAWN DOUNG	

SHAVVIN DOUNG

DRAINAGE DETAILS

INCH IN DEPTH.

3. THE DRYWELLS MUST BE INSPECTED ONCE EVERY YEAR AND CLAENED AS DESCRIBED IN LINE 2 ABOVE. THE FREQUENCY OF

INSPECTION MAY BE DECREASED TO ONCE EVERY THREE YEARS IF

A. CATCH BASINS (1), B. LEACHING FIELDS(2), C. DRYWELL WITH

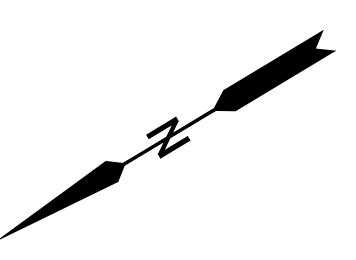
4. THE ITEMS TO BE ROUTINELY MAINTAINED ARE -

THERE ARE INSIGNIFICANT SILT DEPOSITS.

2' MIN / PROPOSED 2'-9.5"

Project number	24025
Date	5/24/2024
Drawn by	MC/KL
Checked by	SK

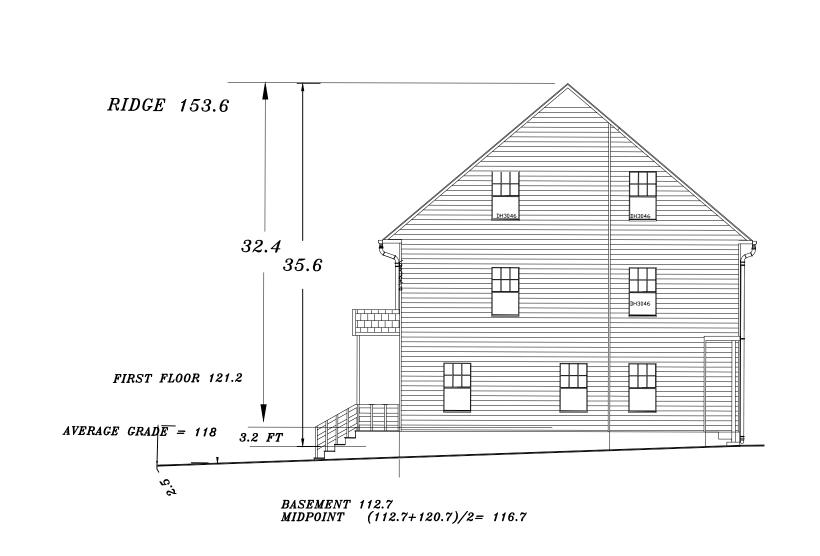
AAS BISHOON IN Scale



LOT AREA: 8000 SF +/-LOT COVER 22 % OPEN SPACE 72 % SEE NEWTON ORDINANCE REF 1-23 FLOOD EL. = 120.4

TREE

 \oplus UTILITY POLE

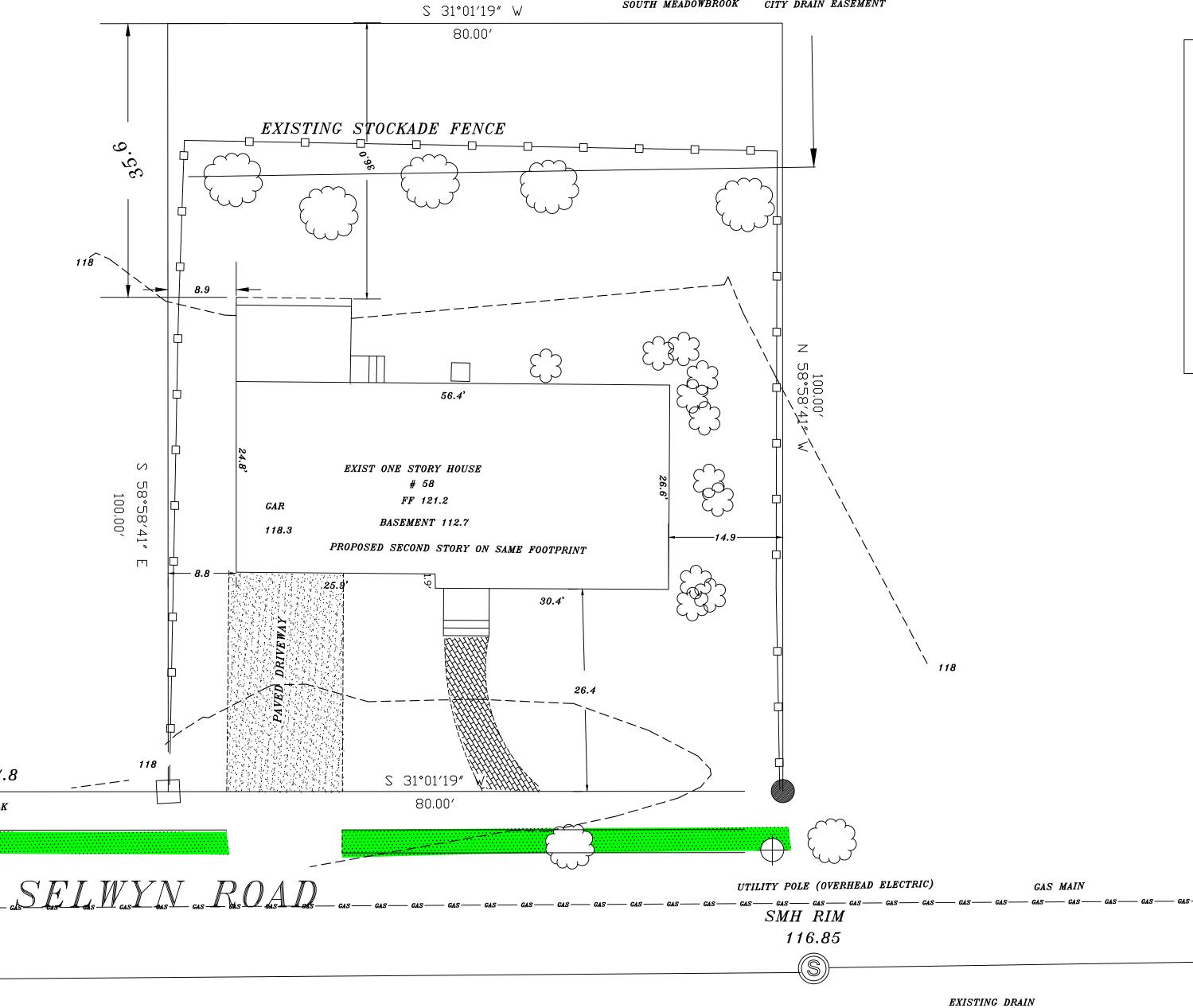


BACK WALK 117.8

GRASS STRIP

EXISTING 8" SEWER MAIN

CONC WALK



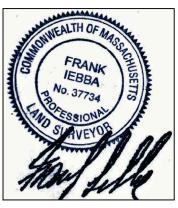
EXISTING WATER MAIN

SOUTH MEADOWBROOK CITY DRAIN EASEMENT

ZONING CHART

	REQUIRED: OLD LOT/NEW LOT		PROVIDED	
LOT AREA	7000 SF	10000 SF	7000 SF	
FRONT YARD	25 FT	35 FT	26.4 FT	
SIDE YARD REAR YARD	7.5 FT 15 FT	10 FT 15 FT	8.8 FT 36 FT	
LOT COVER	30 %	30 %	20 %	
OPEN SPACE	50 %	50 %	74 %	
BUILDING HEIGHT	36 FT	36 FT	35.6 FT	
FRONTAGE	70 FT	80 FT	70 FT	

FAR BY OTHERS



TOPOGRAPHIC PLAN
58 SELWYN ROAD
NEWTON, MA
SCALE 1 IN = 10 FT
MAY 7, 2024

ESSEX ENG. & SURVEY
PO BOX 650217 WEST NEWTON
MA 02465

617-797-7342

FRANK.IEBBA@GMAIL.COM

