

Summary for Subcatchment SC1: Proposed Roof Drainage

Runoff = 0.05 cfs @ 12.09 hrs, Volume= 180 cf, Depth= 3.08"
 Routed to Pond 1P : SC-160LP

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
 Type III 24-hr 2 Year Rainfall=3.31"

Area (sf)	CN	Description
* 702	98	Roof
702		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, Direct

Summary for Pond 1P: SC-160LP

Inflow Area = 702 sf, 100.00% Impervious, Inflow Depth = 3.08" for 2 Year event
 Inflow = 0.05 cfs @ 12.09 hrs, Volume= 180 cf
 Outflow = 0.00 cfs @ 9.65 hrs, Volume= 180 cf, Atten= 97%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 9.65 hrs, Volume= 180 cf

Routing by Dyn-Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs / 3
 Peak Elev= 121.93' @ 16.19 hrs Surf.Area= 219 sf Storage= 106 cf

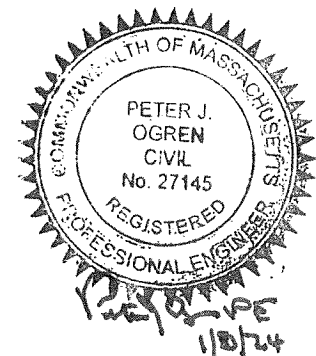
Plug-Flow detention time= (not calculated: outflow precedes inflow)
 Center-of-Mass det. time= 674.4 min (1,430.1 - 755.7)

Volume	Invert	Avail.Storage	Storage Description
#1A	121.00'	148 cf	22.83'W x 9.59'L x 2.00'H Field A 438 cf Overall - 68 cf Embedded = 369 cf x 40.0% Voids
#2A	121.50'	68 cf	ADS_StormTech SC-160LP +Cap x 10 Inside #1 Effective Size= 18.0"W x 12.0"H => 0.96 sf x 7.12'L = 6.8 cf Overall Size= 25.0"W x 12.0"H x 7.56'L with 0.44' Overlap 10 Chambers in 10 Rows
		216 cf	Total Available Storage

Storage Group A created with Chamber Wizard

Device	Routing	Invert	Outlet Devices
#1	Discarded	121.00'	0.270 in/hr Exfiltration over Surface area

Discarded OutFlow Max=0.00 cfs @ 9.65 hrs HW=121.02' (Free Discharge)
 ↑1=Exfiltration (Exfiltration Controls 0.00 cfs)



30homestead

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Rainfall Events Listing

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC
1	2 Year	Type III 24-hr		Default	24.00	1	3.31	2

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Type III 24-hr 2 Year Rainfall=3.31"

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Time span=0.00-72.00 hrs, dt=0.05 hrs, 1441 points x 3
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment SC1: Proposed Roof Drainage Runoff Area=702 sf 100.00% Impervious Runoff Depth=3.08"
Tc=6.0 min CN=98 Runoff=0.05 cfs 180 cf

Pond 1P: SC-160LP Peak Elev=121.93' Storage=106 cf Inflow=0.05 cfs 180 cf
Outflow=0.00 cfs 180 cf

Total Runoff Area = 702 sf Runoff Volume = 180 cf Average Runoff Depth = 3.08"
0.00% Pervious = 0 sf 100.00% Impervious = 702 sf

HOOK RESIDENCE

30 HOMESTEAD ROAD, LYNNFIELD, MA

NORTH DIRECTION



PROJECT NO: 2023-21

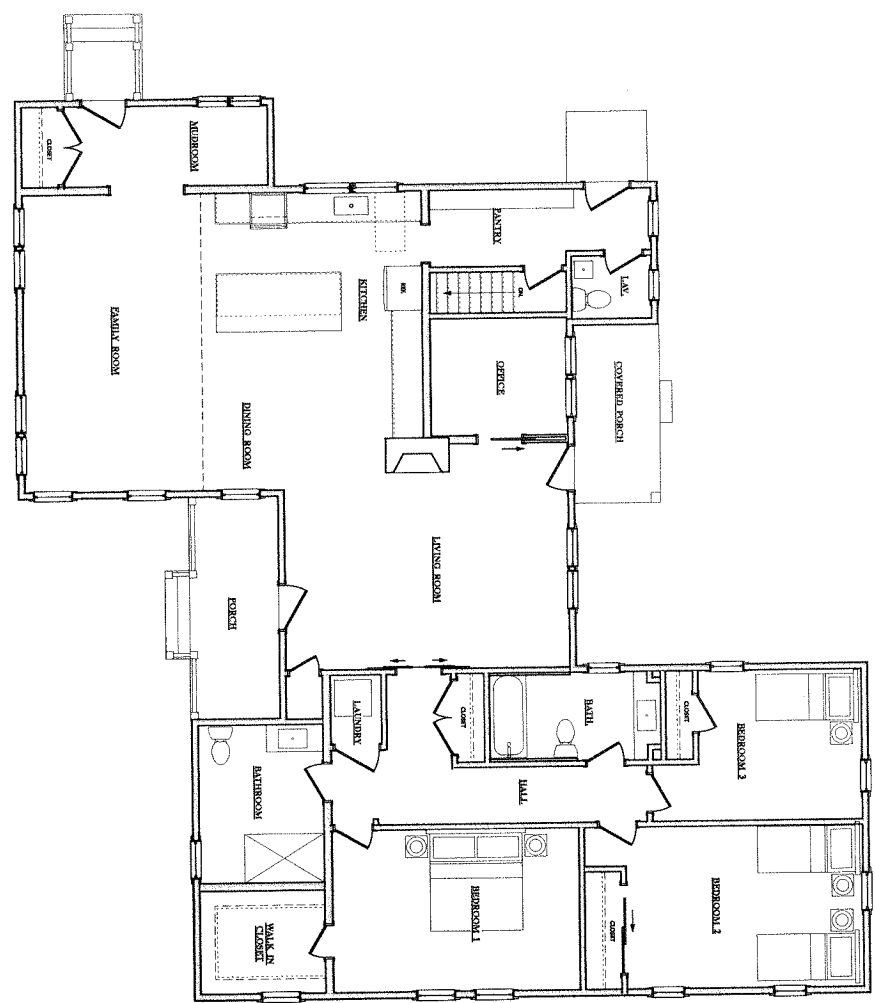
REVISIONS:

Number	Date	Notes

SCALE: 1/9/24

EXISTING FIRST FLOOR PLAN

A1.0



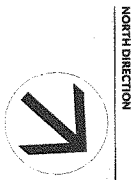
1 EXISTING FIRST FLOOR PLAN
Scale: 1/4" = 1'-0"

	EXISTING WALLS
	NEW WALLS

SQUARE FOOTAGE
EXISTING FIRST FLOOR: 2,220 SF
PROPOSED FIRST FLOOR: 3,010 SF
TOTAL ADDED: 790 SF

HOOK RESIDENCE

30 HOMESTEAD ROAD, LYNNFIELD, MA



PROJECT NO. 2023-21

REVISIONS:

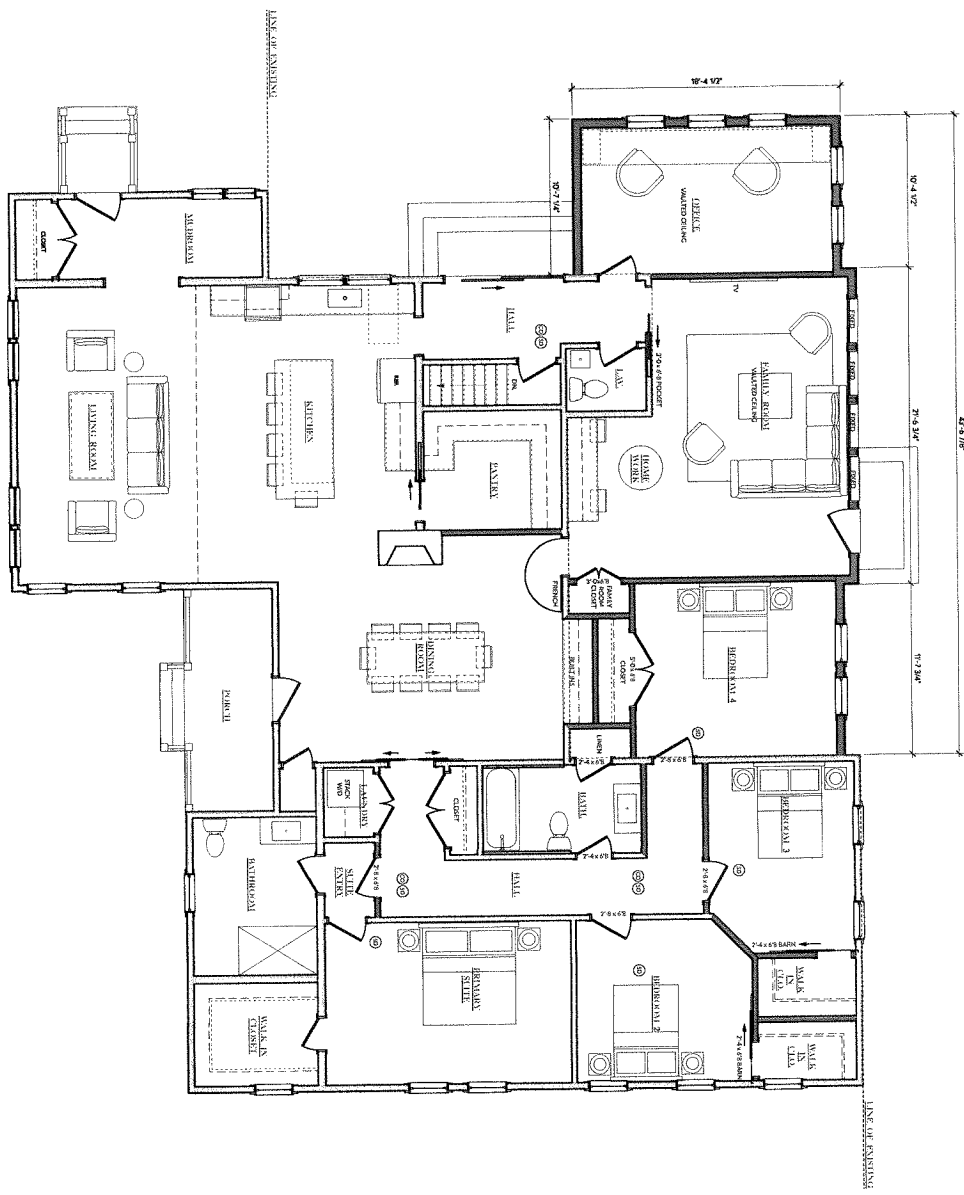
Number	Date	Name

SCALE: 1/9/24

ASNOTED

FIRST FLOOR PLAN

A1.1



1 PROPOSED FIRST FLOOR PLAN
Scale: 1/4" = 1'-0"

SQUARE FOOTAGE

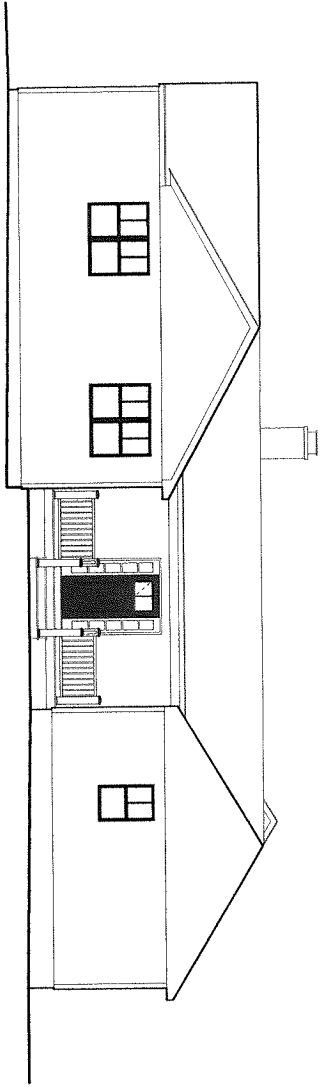
- EXISTING WALLS
- NEW WALLS

EXISTING FIRST FLOOR: 2,203 SF
 PROPOSED FIRST FLOOR: 3,010 SF
 TOTAL ADDED: 700 SF

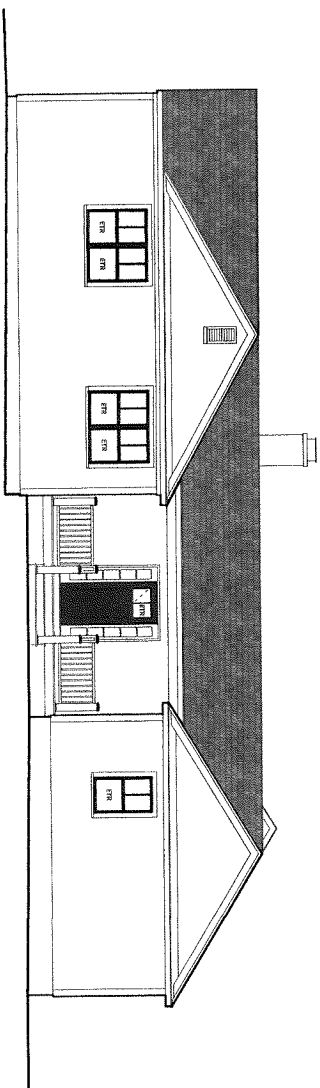
HOOK RESIDENCE

30 HOMESTEAD ROAD, LYNNFIELD, MA

NORTH DIRECTION



1 EXISTING FRONT ELEVATION
Scale: 1/4" = 1'-0"



2 PROPOSED FRONT ELEVATION
Scale: 1/4" = 1'-0"

PROJECT NO. 2023-21

REVISIONS:		
Number	Date	Notes

SCALE 1/9/24
ARCHITD

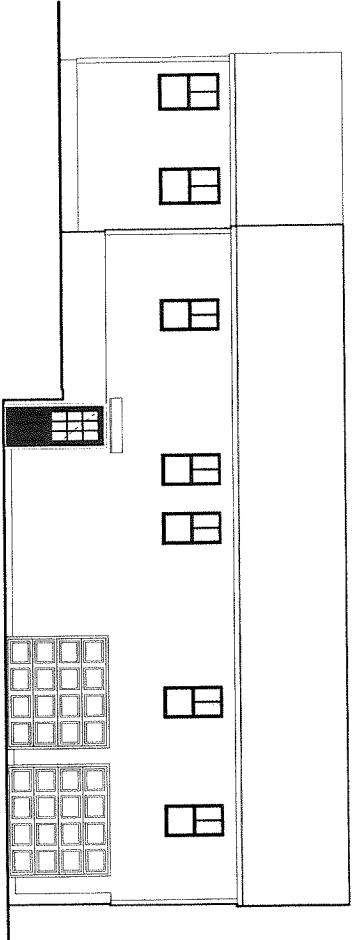
ELEVATIONS
A2.1



HOOK RESIDENCE

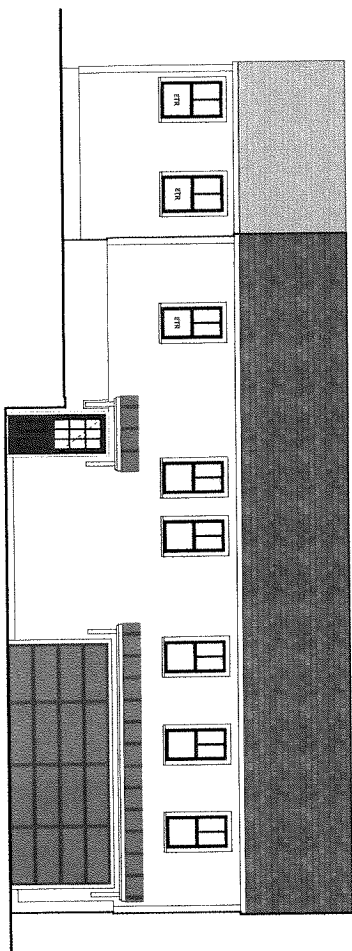
30 HOMESTEAD ROAD, LYNNFIELD, MA

NORTH DIRECTION



1 EXISTING RIGHT ELEVATION
Scale: 1/4" = 1'-0"

PROJECT NO. 2023-21



2 PROPOSED RIGHT ELEVATION
Scale: 1/4" = 1'-0"

REVISIONS:		
NUMBER	DATE	DESCRIPTION

SCALE: 1/9/24

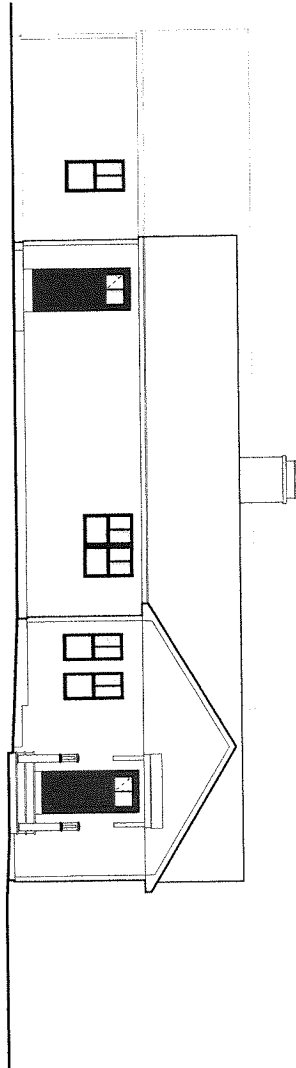
ELEVATIONS
A2.2

HOOK RESIDENCE

30 HOMESTEAD ROAD, LYNNFIELD, MA

NORTH DIRECTION

1 EXISTING LEFT ELEVATION
Scale: 1/4" = 1'-0"



PROJECT NO: 2023-21

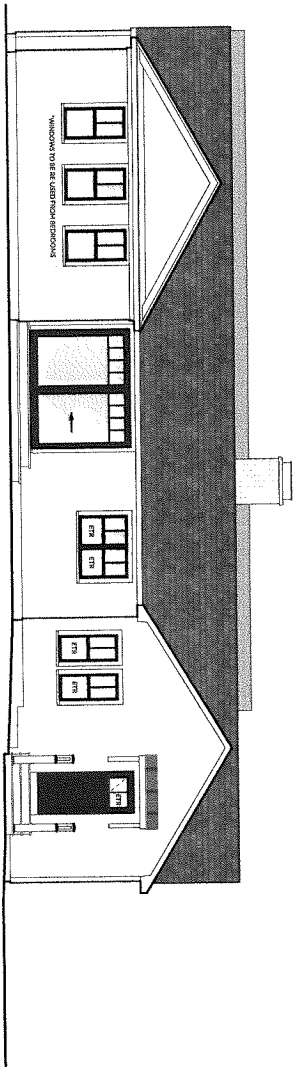
REVISIONS:

NUMBER	DATE	NOTES

SCALE: 1/9/24

ELEVATIONS
A2.3

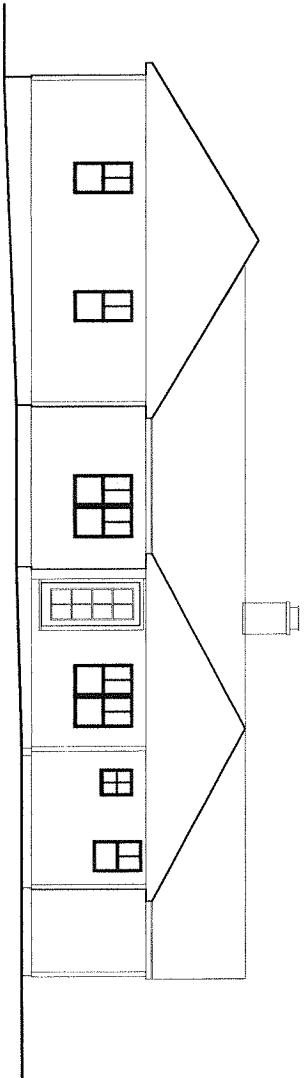
2 PROPOSED LEFT ELEVATION
Scale: 1/4" = 1'-0"



HOOK RESIDENCE

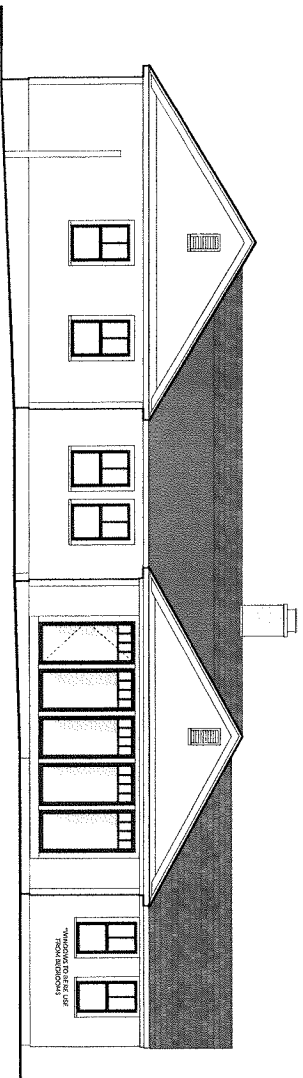
30 HOMESTEAD ROAD, LYNNFIELD, MA

NORTH DIRECTION



1 EXISTING REAR ELEVATION
Scale: 1/4" = 1'-0"

PROJECT NO: 2023-21



2 PROPOSED REAR ELEVATION
Scale: 1/4" = 1'-0"

REVISIONS:

Number	Date	Notes

SCALE: 1/9/24

AS NOTED

ELEVATIONS
A2.4