

Cloverleaf Truro Rental Housing List of Plans				
Trade	Set/Sheet Date	Sheet Number	Sheet Title	Notes
Civil Engineering				
Civil Engineering	September 16, 2020	Sheet 1 of 6	Engineering Site Plan	
Civil Engineering	September 16, 2020	Sheet 2 of 6	Engineering Sewage-Drainage Site Plan	
Civil Engineering	September 16, 2020	Sheet 3 of 6	Engineering Sewage Details	
Civil Engineering	September 16, 2020	Sheet 4 of 6	Engineering Site Details (Drainage)	
Civil Engineering	September 16, 2020	Sheet 5 of 6	Engineering Site Details (Drainage)	
Civil Engineering	September 16, 2020	Sheet 6 of 6	Engineering Erosion Control Plan	
Civil Engineering	September 3, 2020	Two(2) Sheets	Swept-Path Analysis	
Civil Engineering	September 16, 2020	One(1) Sheet	Water Shed Areas Plan	
Architectural Plans and Elevations: Buildings 1-3, 2-4, and 6-8				
Architectural	September 4, 2020	Cover		
Architectural	September 4, 2020	A1.1	Unit 1, Unit 4, and Unit 8 Plans	
Architectural	September 4, 2020	A1.2	Third Level and Roof Plans	
Architectural	September 4, 2020	A2.1	Elevations	
Architectural Plans and Elevations: Building 5-7				
Architectural	September 4, 2020	Cover		
Architectural	September 4, 2020	A1.1	Unit 5 and Unit 7 Floor Plans	
Architectural	September 4, 2020	A1.2	Foundation and Roof Plans	
Architectural	September 4, 2020	A2.1	Elevations	
Architectural Plans and Elevations: Buildings 9-11, 10-12, 17-19, and 18-20				
Architectural	September 4, 2020	Cover		
Architectural	September 4, 2020	A1.0	Floor Plans	
Architectural	September 4, 2020	A2.1	Elevations	
Architectural Plans and Elevations: Buildings 13-15 and 14-16				
Architectural	September 4, 2020	Cover		
Architectural	September 4, 2020	A1.0	Floor Plans	
Architectural	September 4, 2020	A2.1	Elevations	
Architectural Plans and Elevations: Building 21				
Architectural	September 17, 2020	Cover		
Architectural	September 17, 2020	A1.0	Basement Floor Plan	
Architectural	September 17, 2020	A1.1	First Floor Plan	
Architectural	September 17, 2020	A1.2	Second Floor Plan	
Architectural	September 17, 2020	A1.3	Roof Plan	
Architectural	September 17, 2020	A2.1	Front and Back Elevations	
Architectural	September 17, 2020	A2.2	Left and Right Elevations	
	September 25, 2020	9.25.20	Building Section Diagram	
Architectural Plans and Elevations: Buildings 22-24 and 23-25				
Architectural	September 4, 2020	Cover		
Architectural	September 4, 2020	A1.0	Basement Floor Plan	
Architectural	September 4, 2020	A1.1	First Floor Plan	
Architectural	September 4, 2020	A1.2	Second Floor and Roof Plans	
Architectural	September 4, 2020	A2.1	Front and Back Elevations	
Architectural	September 4, 2020	A2.2	Side Elevations	
Miscellaneous Submissions				
	October 12, 2020		Illustrated Site Plan	
	October 5, 2020		Landscape Planting, Fencing, Trash/Bike Storage, Exterior Lighting Plan	
	June 19, 2020	P1.1	Fence/Storage Images	
	October 5, 2020	P1.2	Exterior Palette/Lighting	
	June 19, 2020	P1.3	Interior Palette	
	October 5, 2020	CR.1	Control Room Schematic	
	February 20, 2020	A3	Building Height Calculations - 1-3, 2-4, 6-8	
	February 20, 2020	A3	Building Height Calculations - 5-7	
	August 31, 2020	A3	Building Height Calculations - 9-11, 10-12, 17-19, and 18-20	Revised
	August 31, 2020	A3	Building Height Calculations - 13-15 and 14-16	Revised
	September 24, 2020	A3	Building Height Calculations - 21	Revised
	February 20, 2020	A3	Building Height Calculations - 22-24 and 23-25	



ILLUSTRATED SITE PLAN

CLOVERLEAF TRURO RENTAL HOUSING

12 October 2020





CLOVERLEAF TRURO RENTAL HOUSING
BUILDINGS 1-3, 2-4, AND 6-8 (Buildings may be mirrored)
Truro, Massachusetts

Friday, September 4, 2020

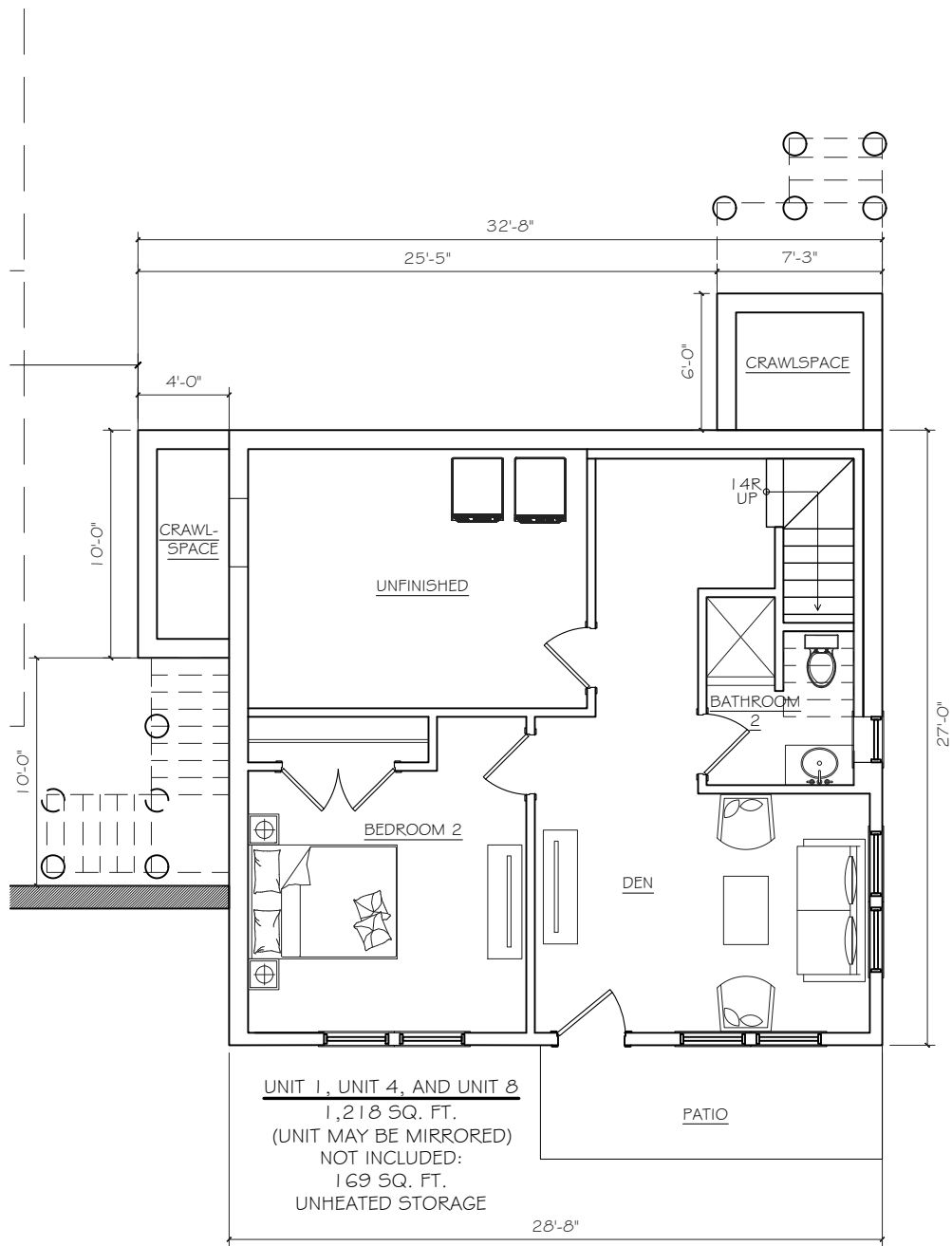
Spring Hill Design

INTERIORS

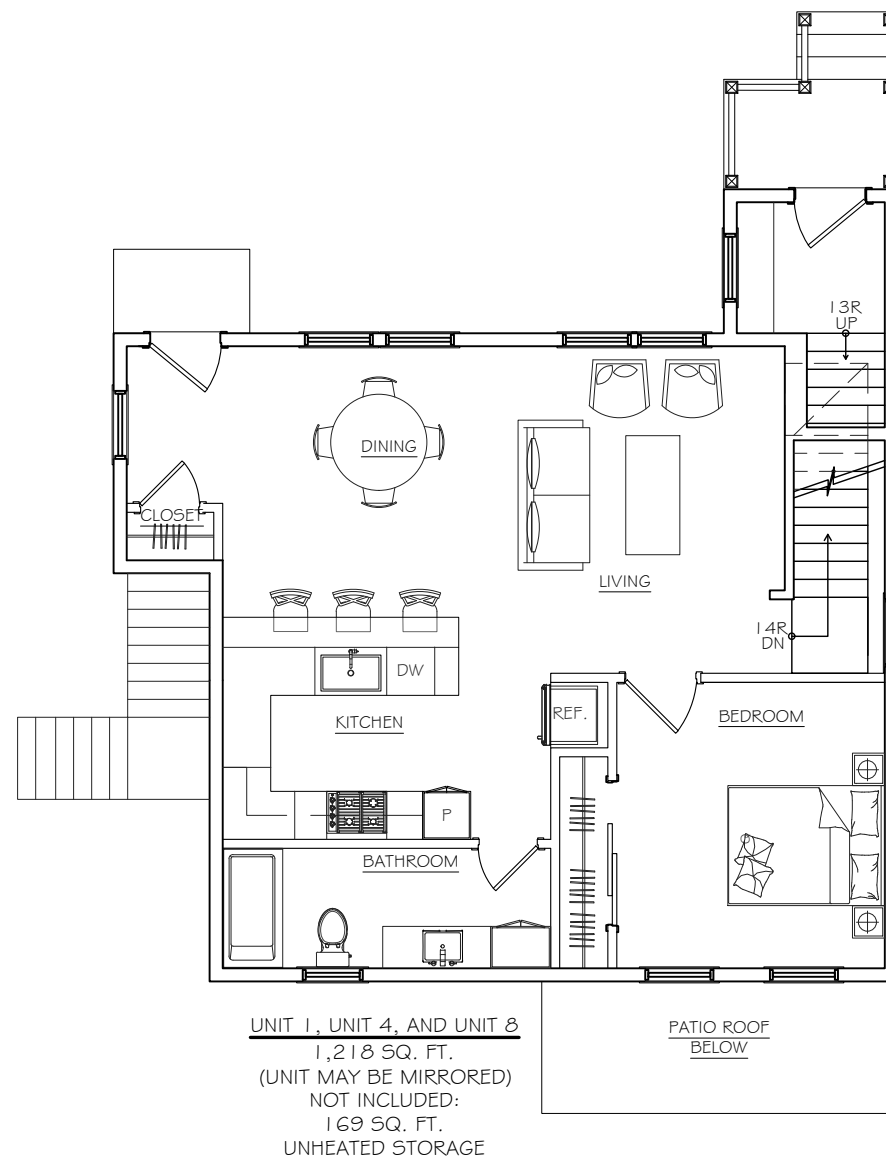
ARCHITECTURE

SPACE PLANNING

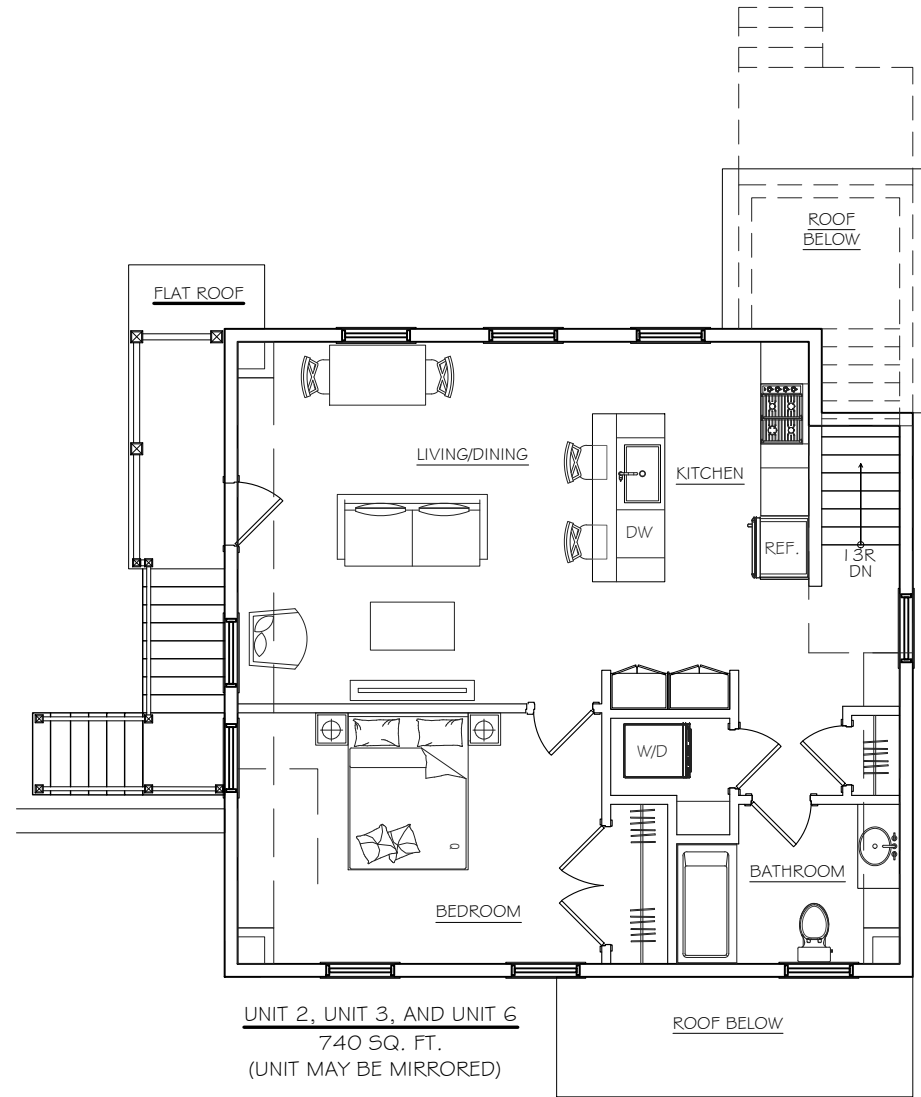
158 Central Street, Somerville, MA, 02145 ~ 617.6702.4622



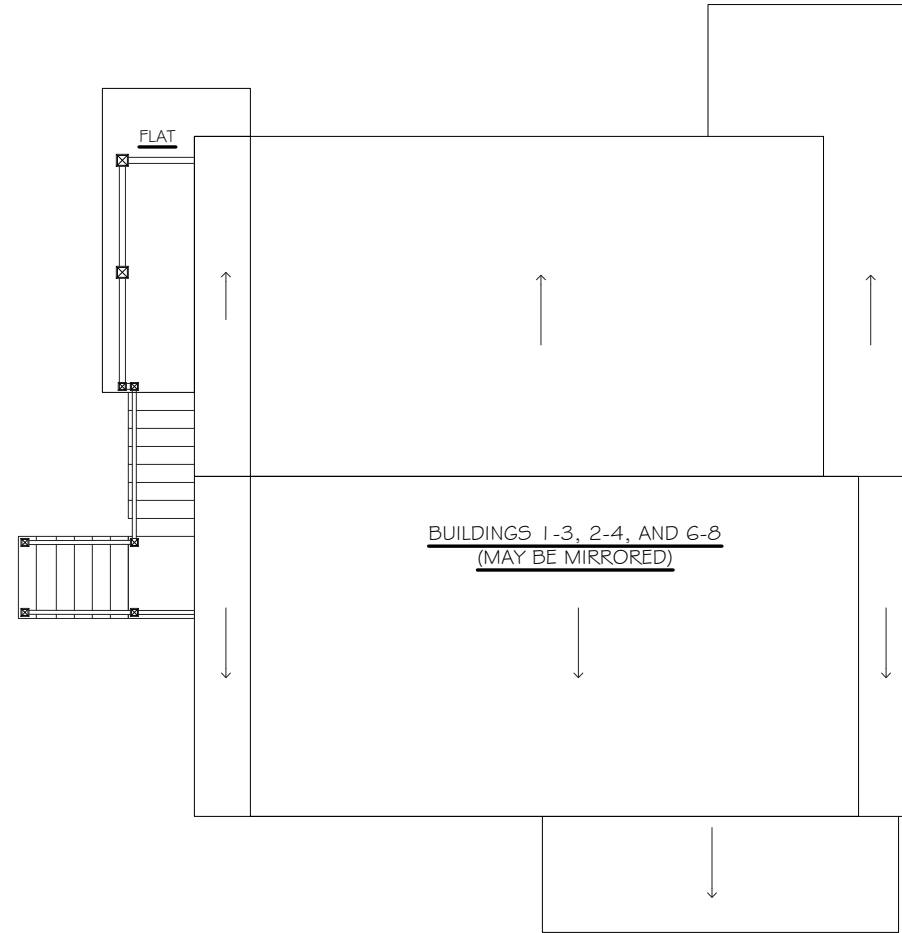
1 FIRST/GARDEN LEVEL PLAN UNIT 1, UNIT 4, AND UNIT 8
SCALE: 1/8" = 1'-0"



2 SECOND/MAIN ENTRY LEVEL PLAN UNIT 1, UNIT 4, AND UNIT 8
SCALE: 1/8" = 1'-0"



1 THIRD LEVEL PLAN UNIT 2, UNIT 3, AND UNIT 6
SCALE: 1/8" = 1'-0"



2 BUILDINGS 1-3, 2-4, AND 6-8 ROOF PLAN
SCALE: 1/8" = 1'-0"

THIRD LEVEL AND ROOF PLANS

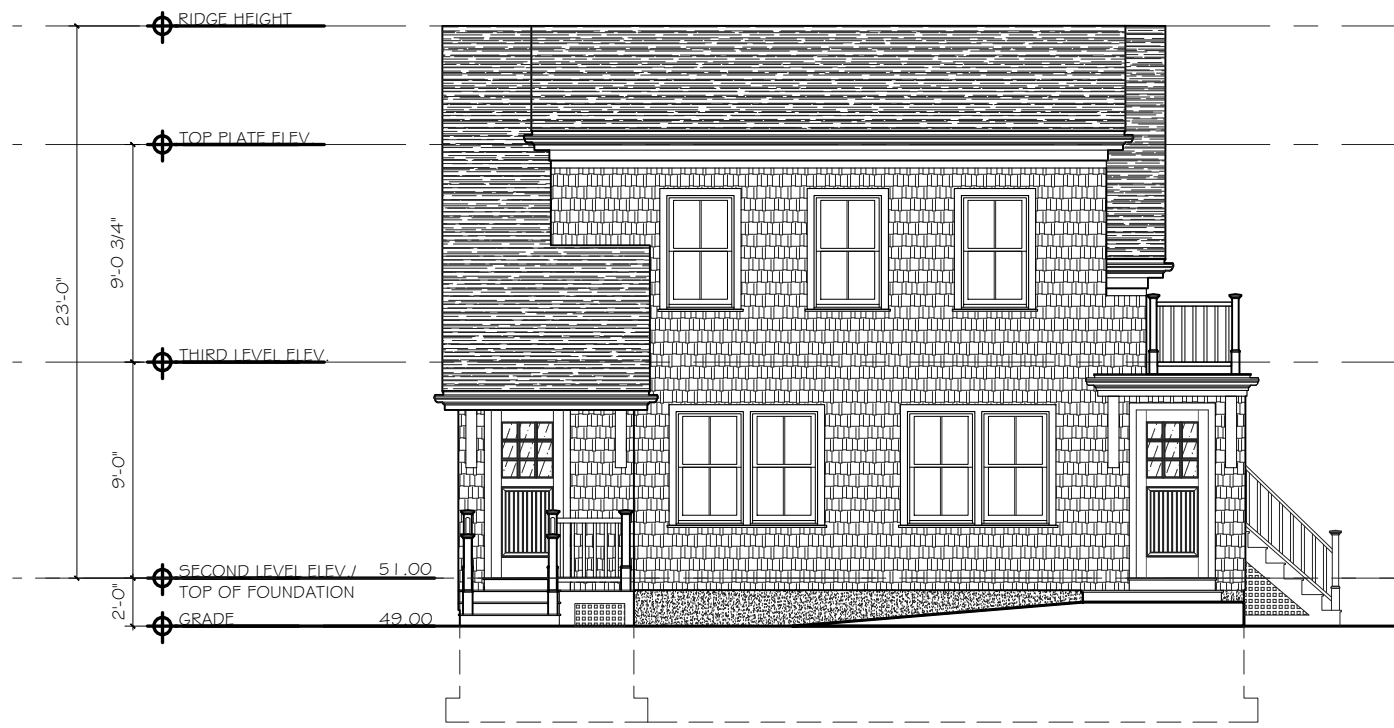
CLOVERLEAF BUILDINGS 1-3, 2-4, AND 6-8
CLOVERLEAF TRURO RENTAL HOUSING

SPRING HILL DESIGN
ARCHITECTURE INTERIORS SPACE PLANNING
158 Central Street, Somerville, MA, 02145 ~ 617.6702.4622

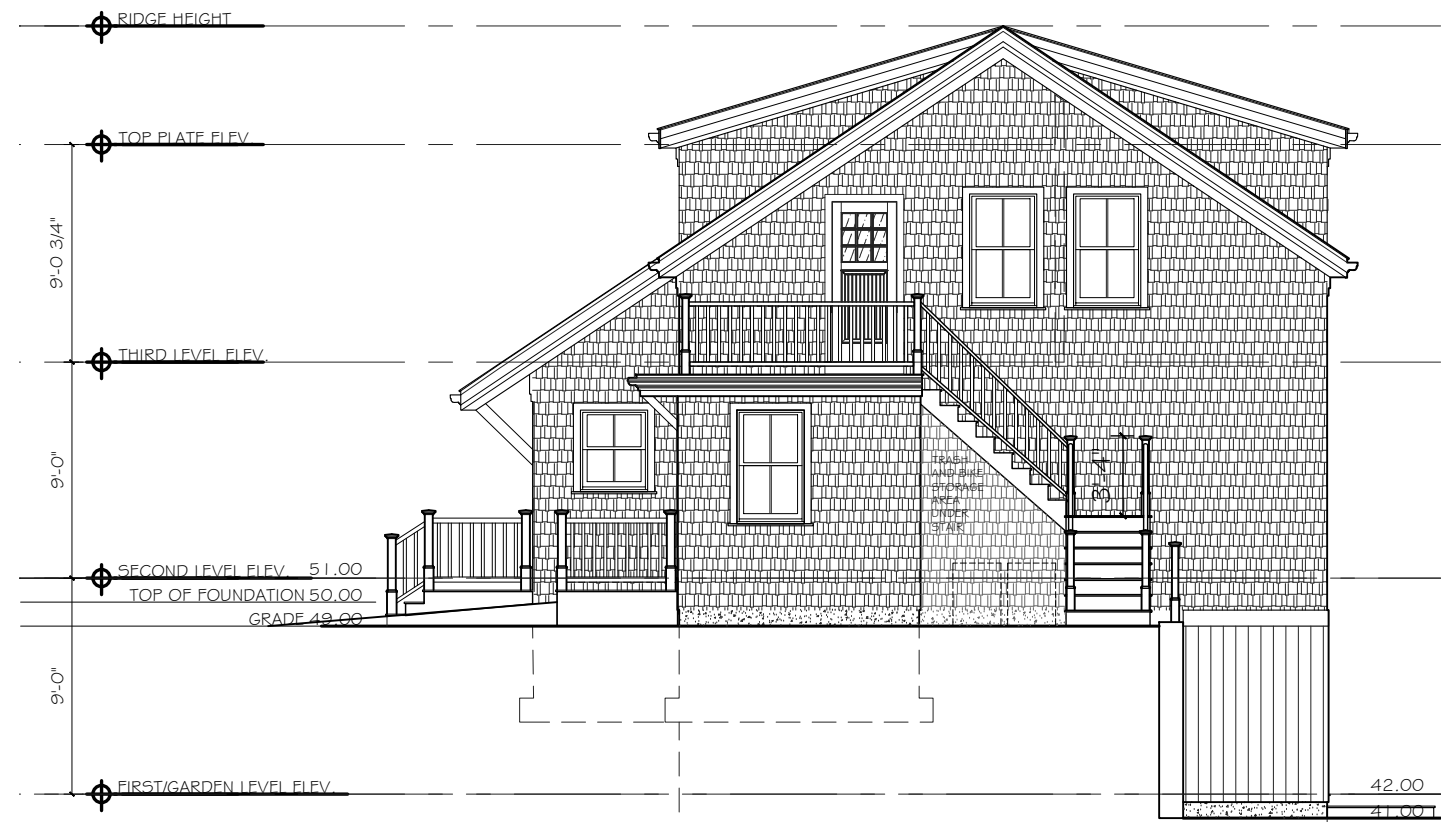
DATE:
09.04.20

1/8" = 1'-0"

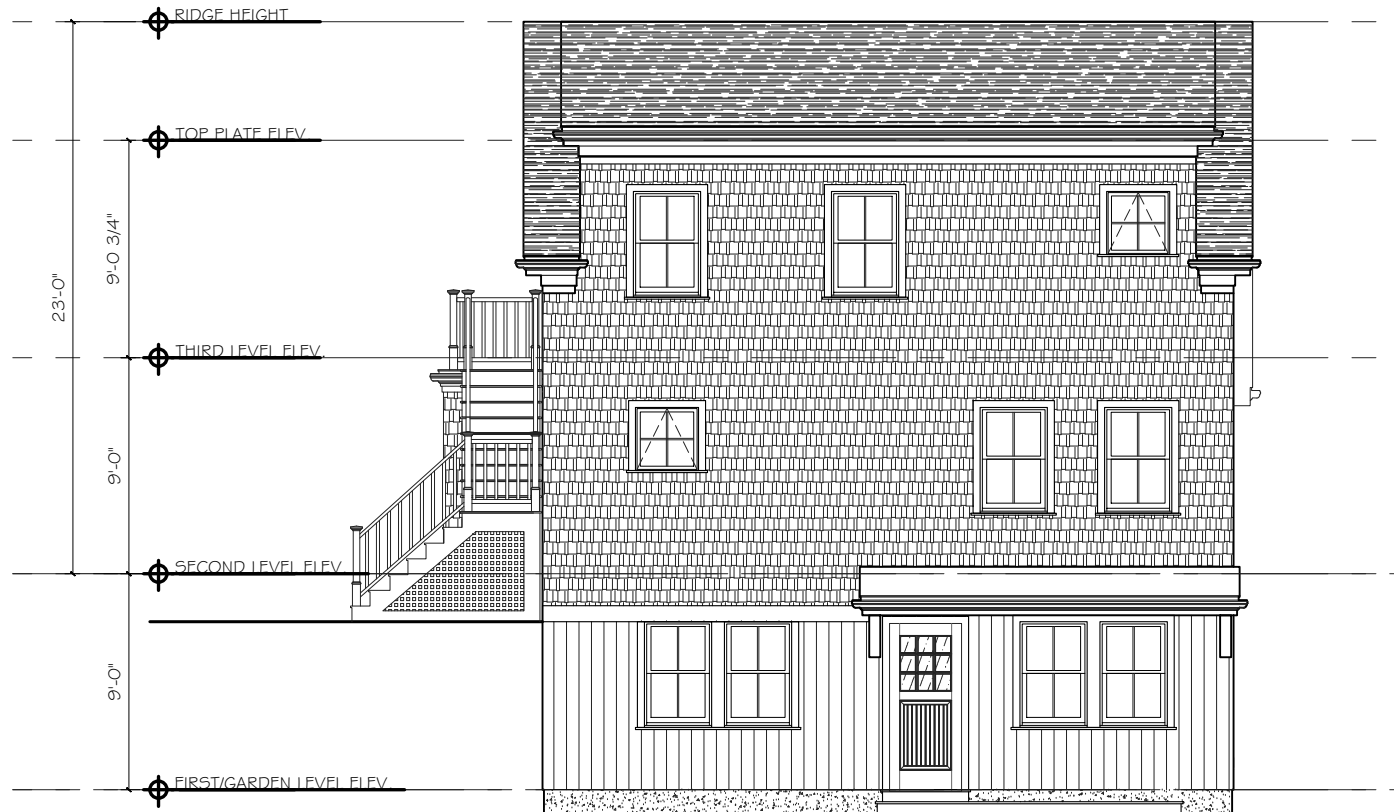
A1.2



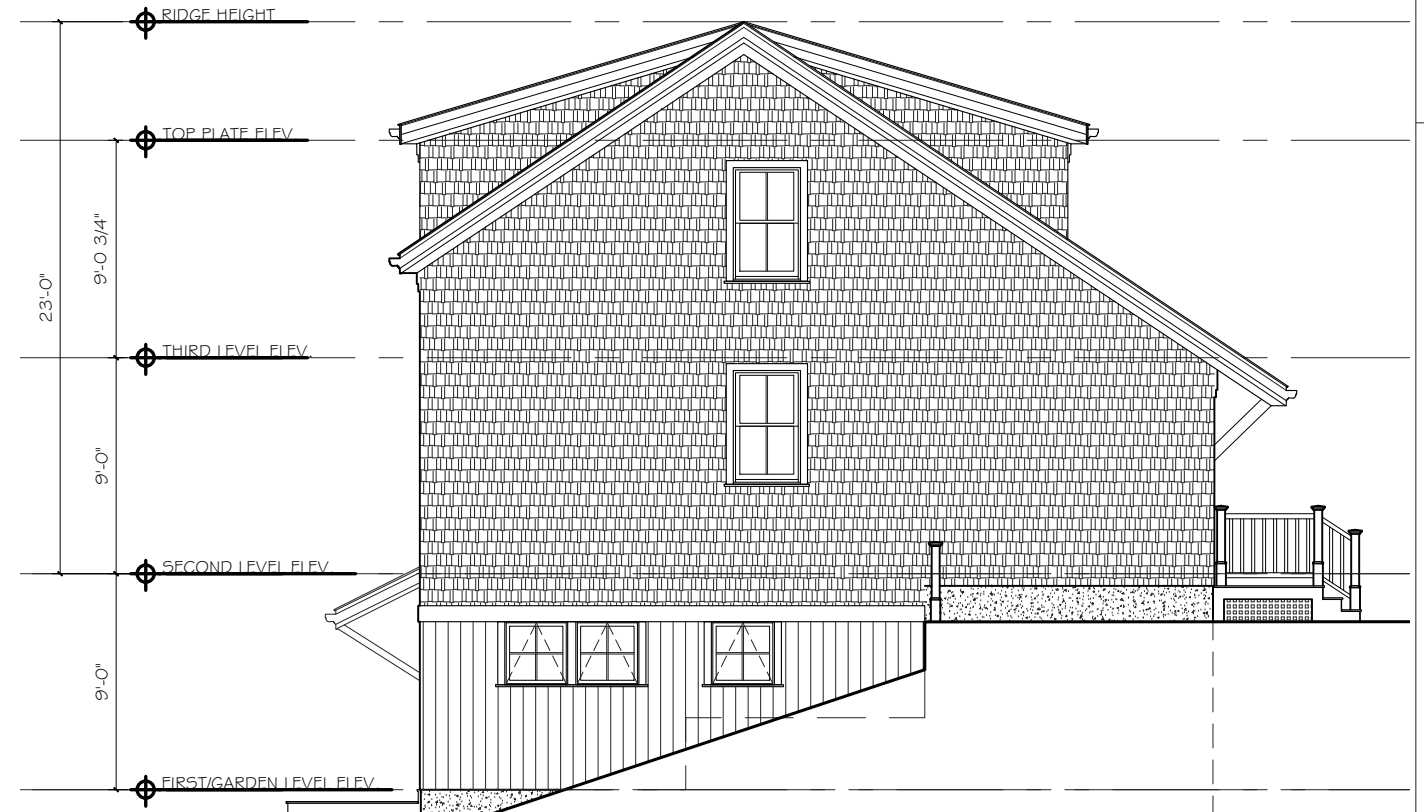
1 FRONT ELEVATION
SCALE: 1/8" = 1'-0"



2 RIGHT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



3 BACK ELEVATION
SCALE: 1/8" = 1'-0"



4 LEFT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



CLOVERLEAF TRURO RENTAL HOUSING BUILDING 5-7

Truro, Massachusetts

Friday, September 4, 2020

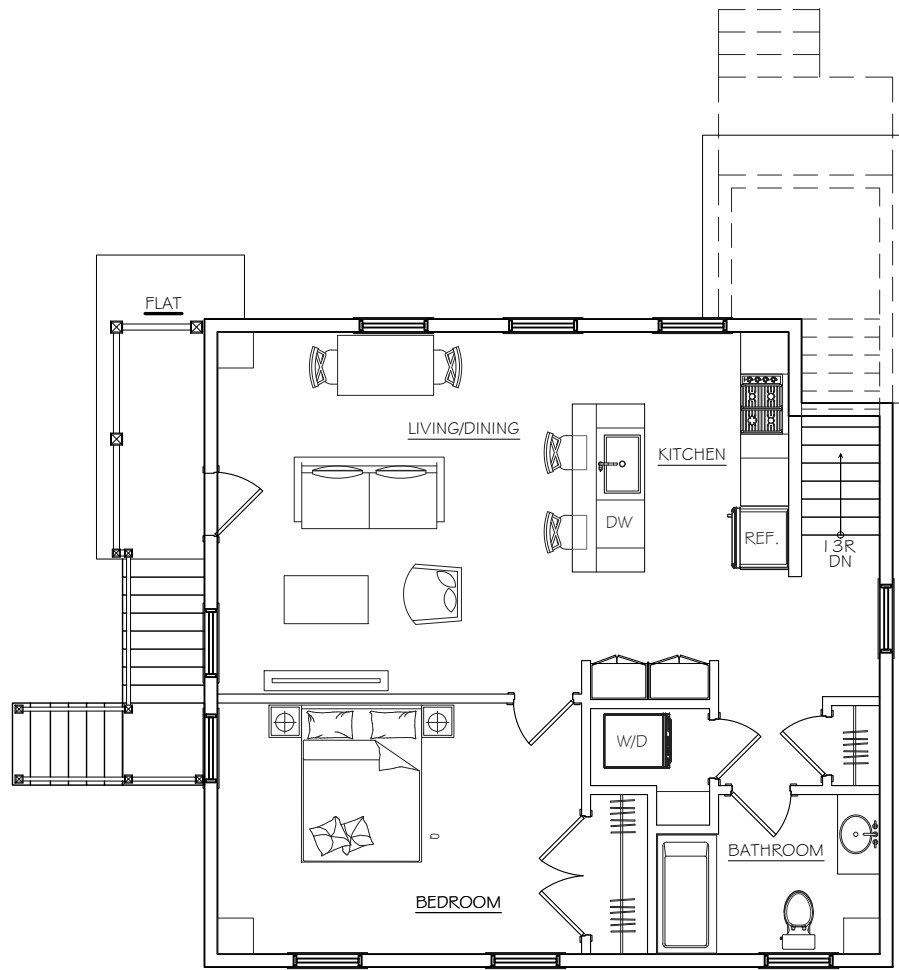
Spring Hill Design

INTERIORS

ARCHITECTURE

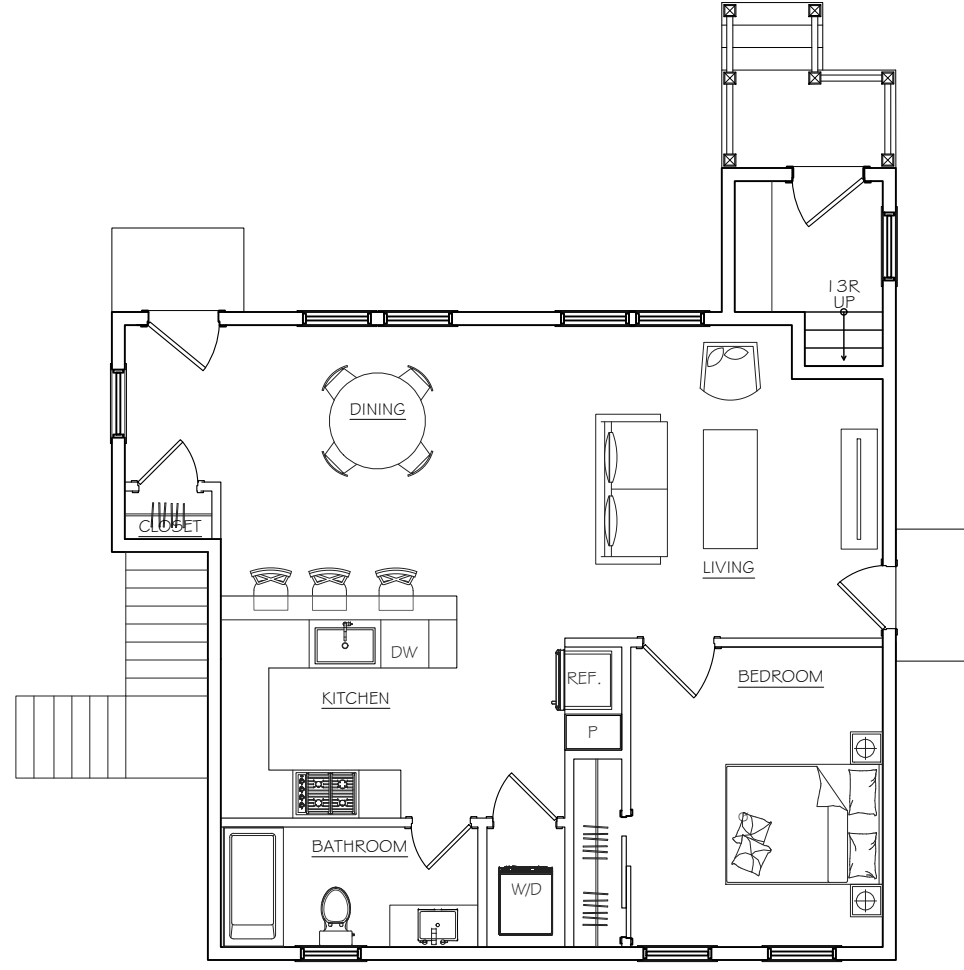
SPACE PLANNING

158 Central Street, Somerville, MA, 02145 ~ 617.6702.4622



UNIT 5
752 SQ. FT.

1 UNIT 5 FLOOR PLAN
SCALE: 1/8" = 1'-0"



UNIT 7
742 SQ. FT.

2 UNIT 7 FLOOR PLAN
SCALE: 1/8" = 1'-0"

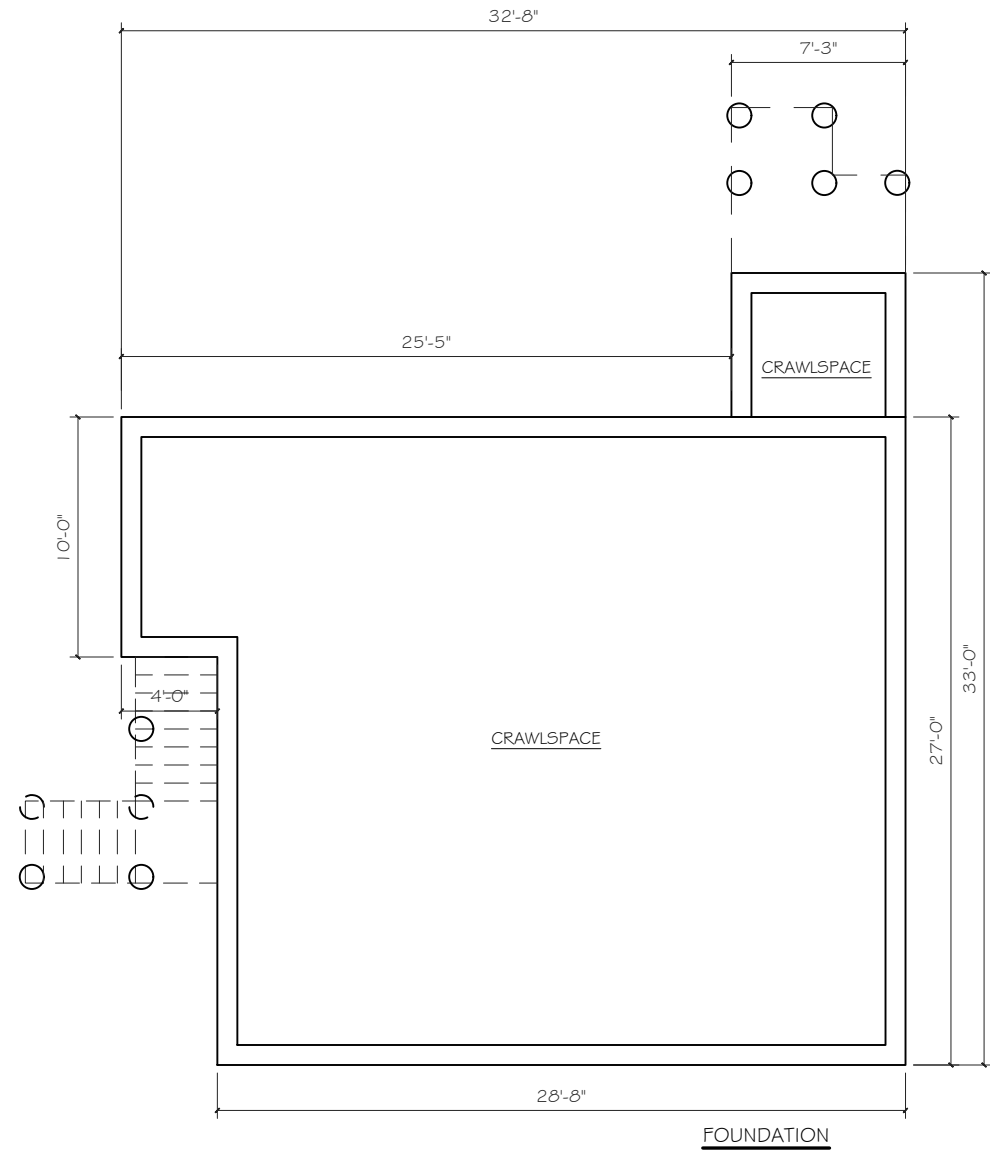
DATE:
09.04.20

UNITS 5 AND UNIT 7 FLOOR PLANS
CLOVERLEAF BUILDING 5-7
CLOVERLEAF TRURO RENTAL HOUSING

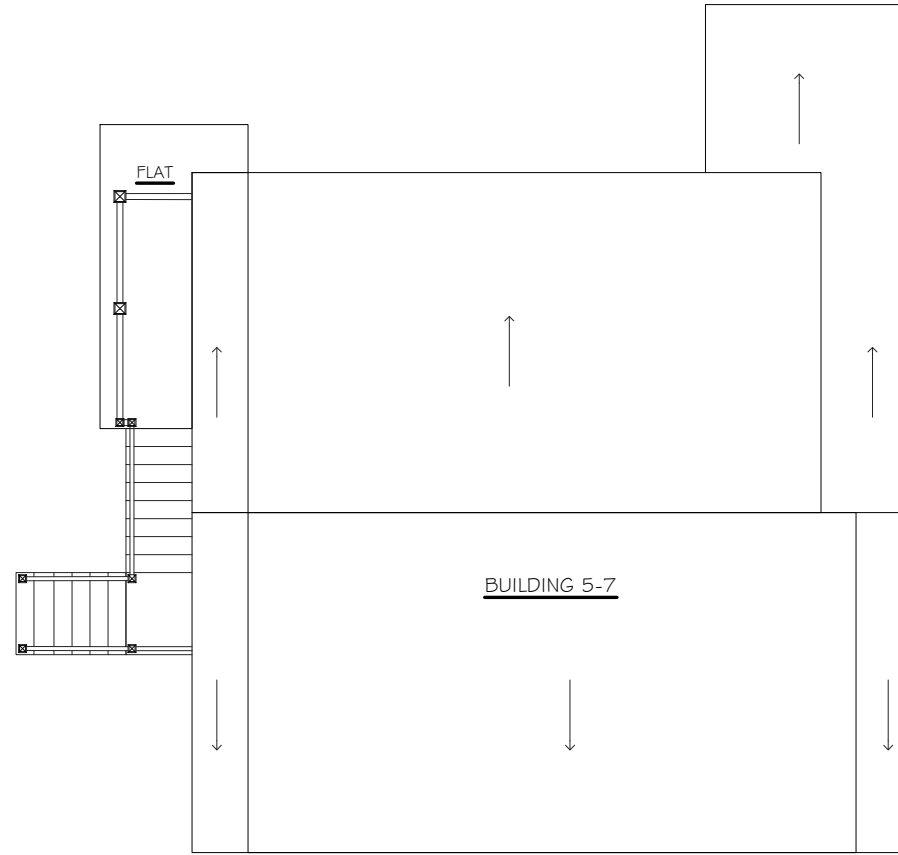
SPRING HILL DESIGN
ARCHITECTURE INTERIORS SPACE PLANNING
158 Central Street, Somerville, MA, 02145 ~ 617.6702.4622

1/8" = 1'-0"

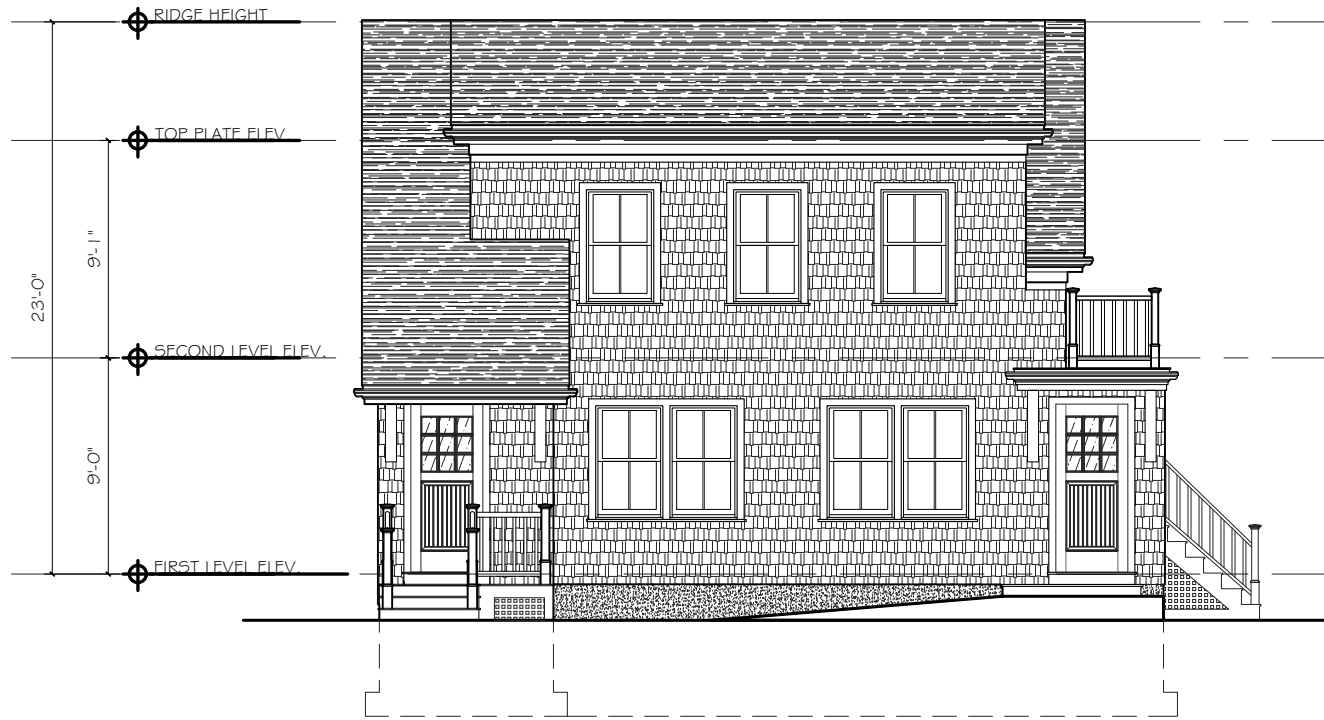
A1.1



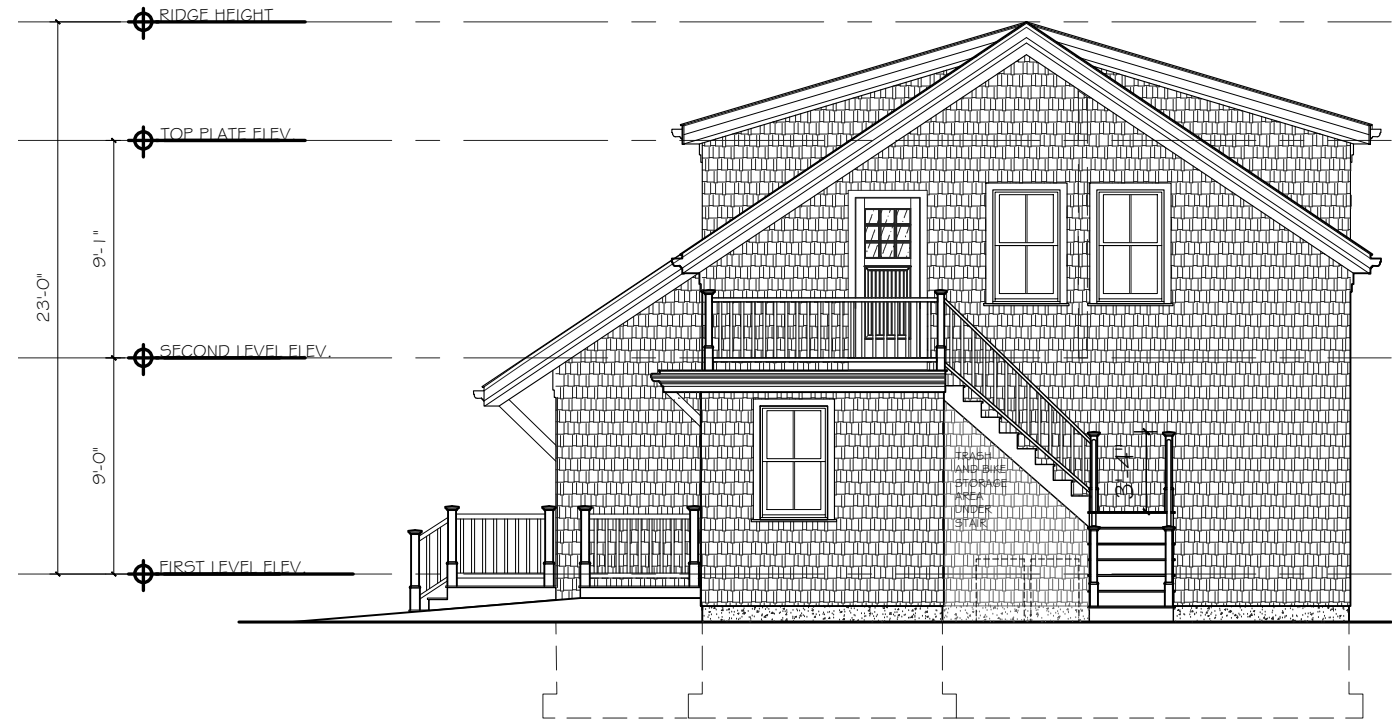
1 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



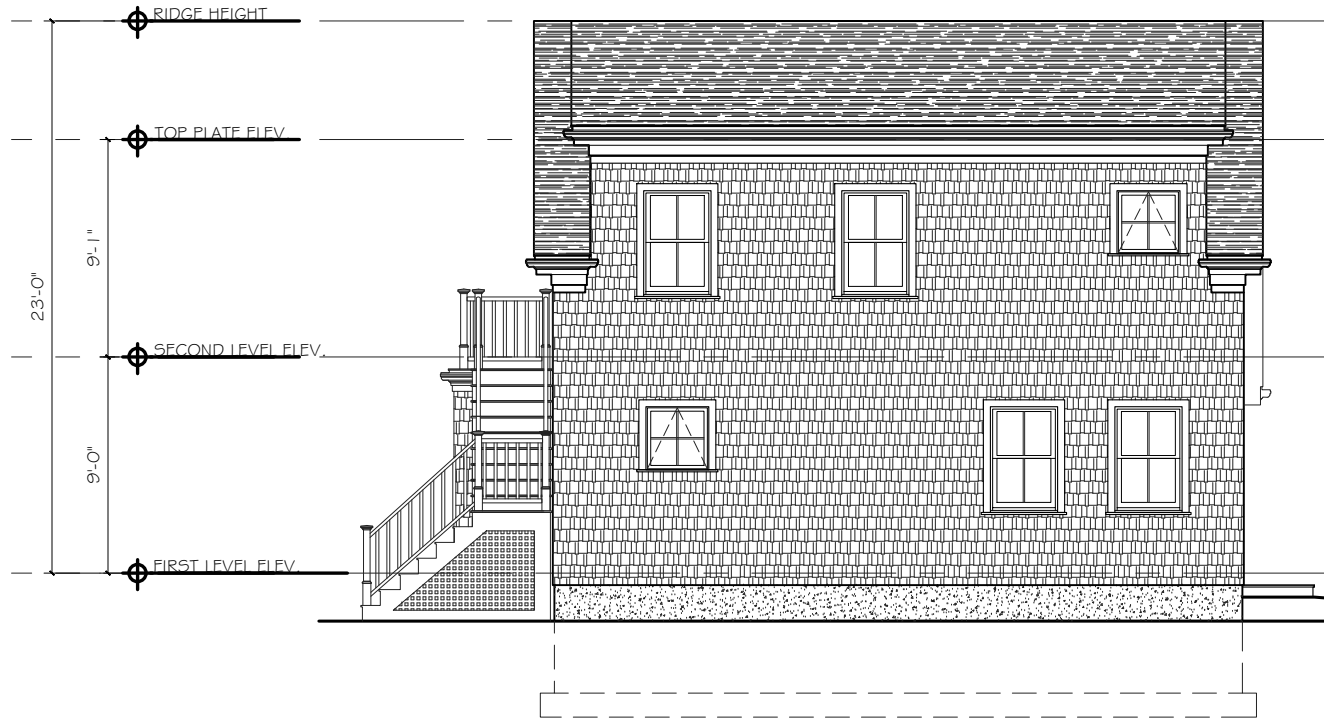
2 BUILDING 5-7 ROOF PLAN
SCALE: 1/8" = 1'-0"



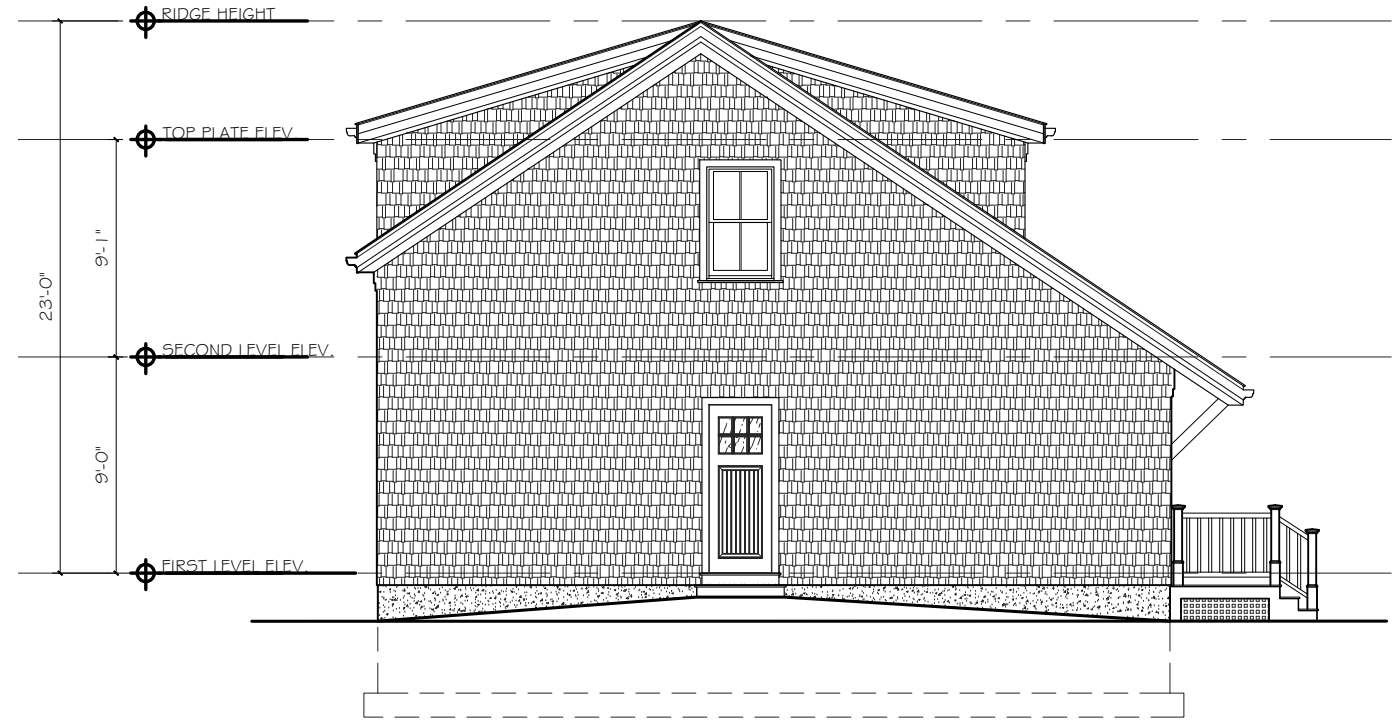
1 FRONT ELEVATION
SCALE: 1/8" = 1'-0"



2 RIGHT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



3 BACK ELEVATION
SCALE: 1/8" = 1'-0"



4 LEFT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



CLOVERLEAF TRURO RENTAL HOUSING
BUILDINGS 9-11, 10-12, 17-19, AND 18-20
Truro, Massachusetts

Friday, September 4, 2020

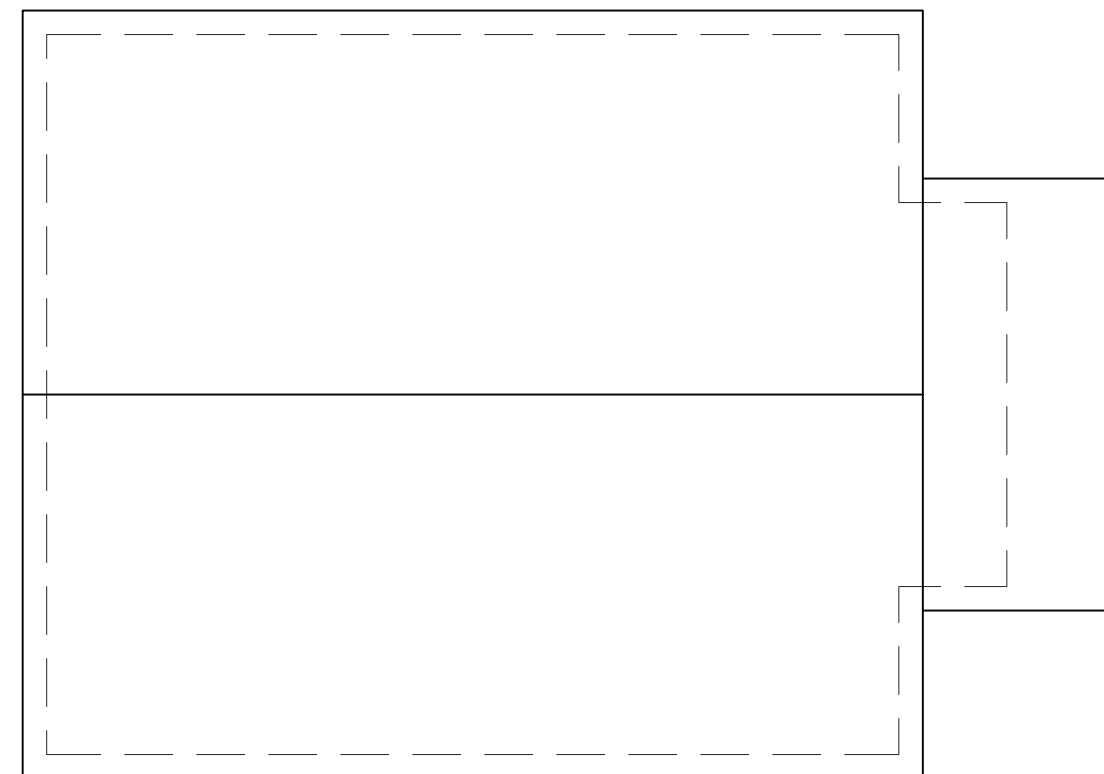
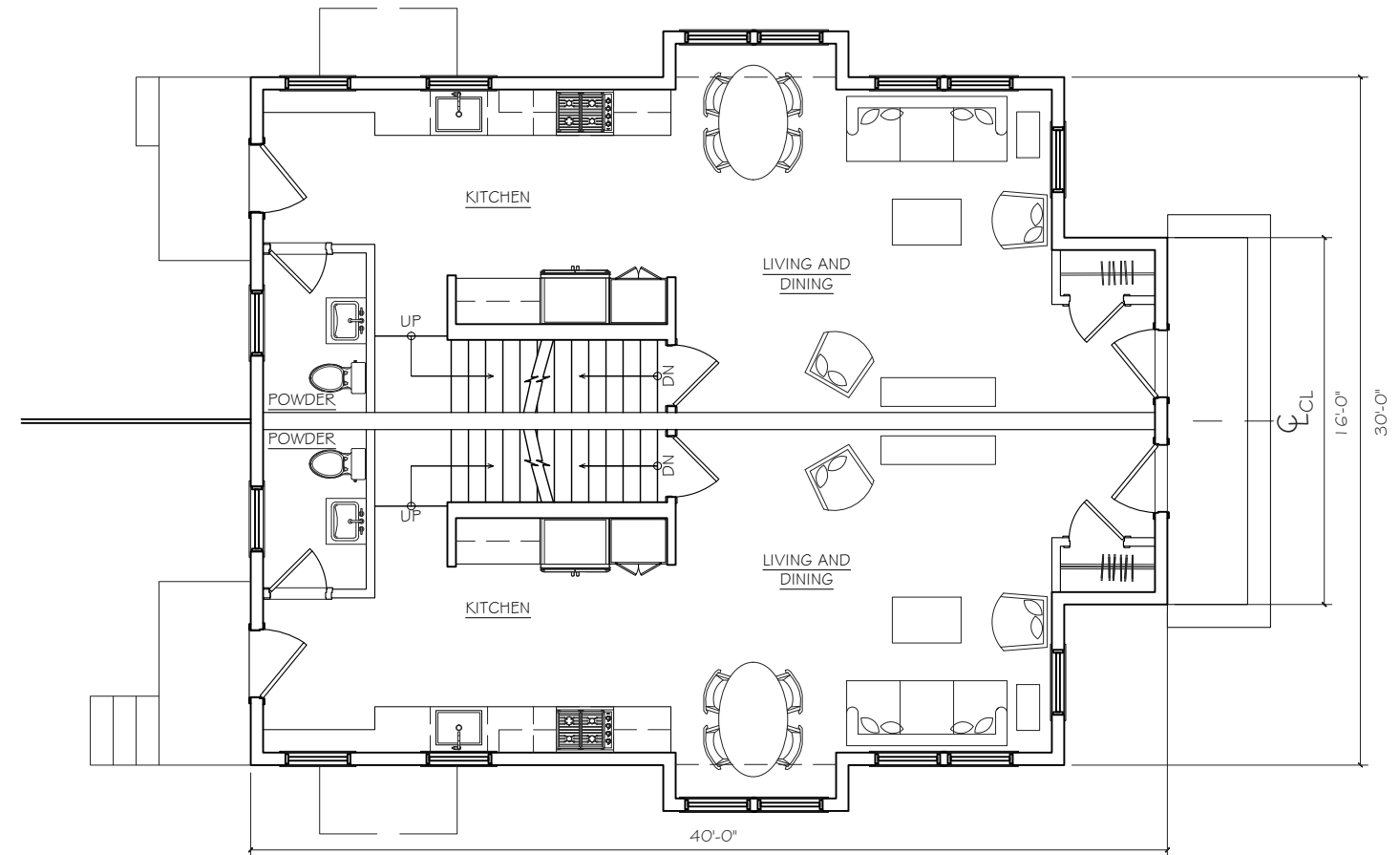
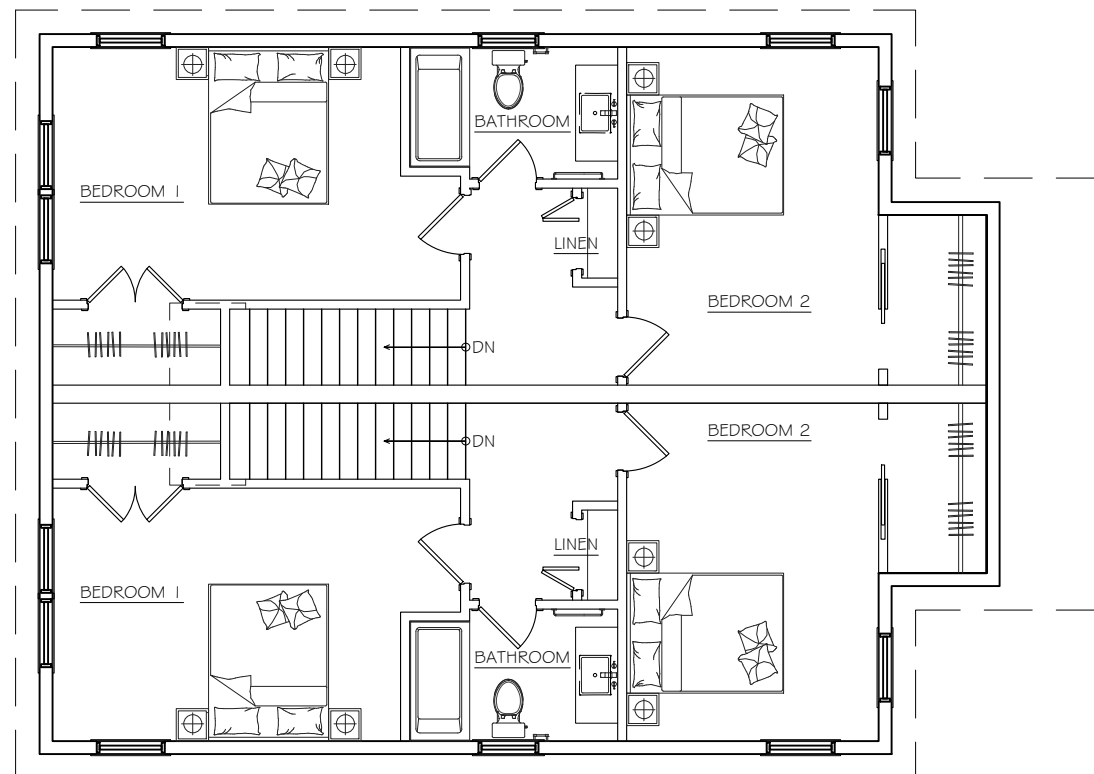
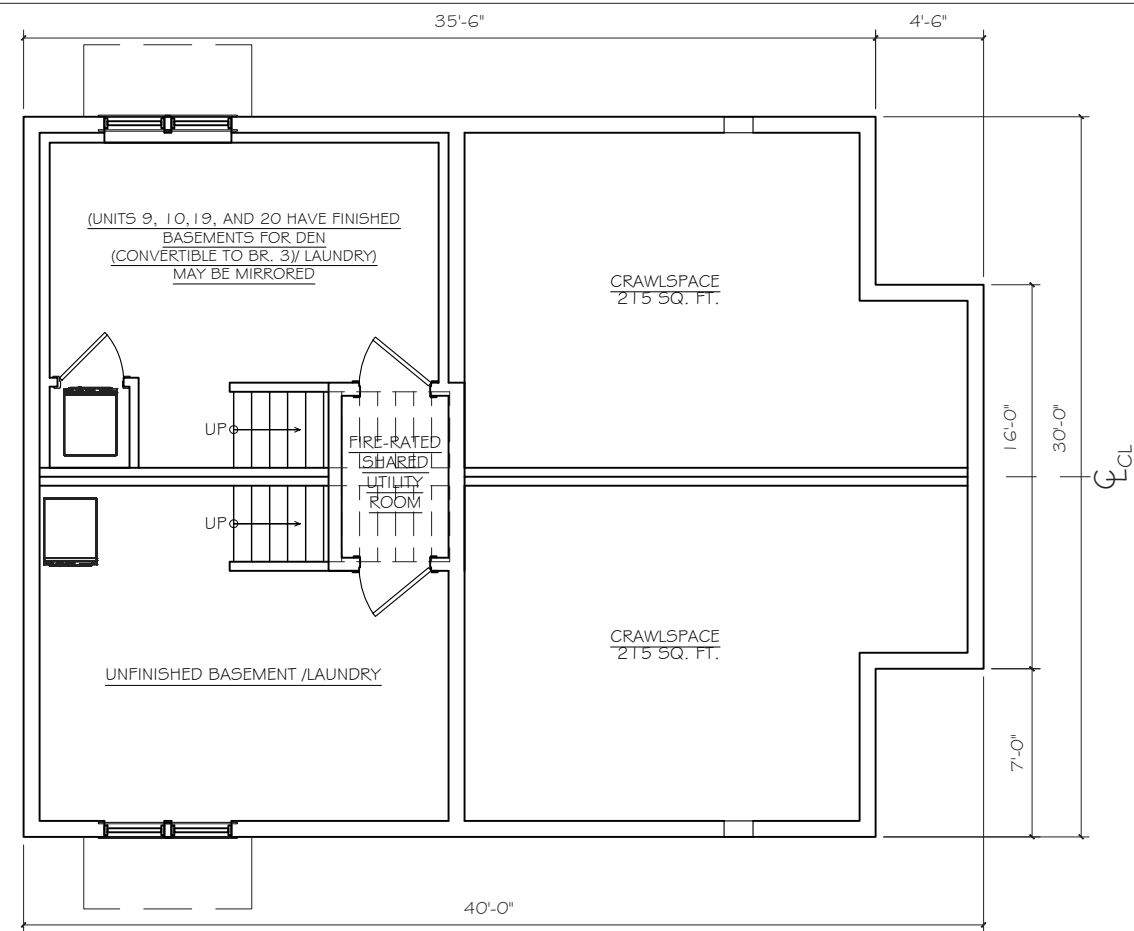
Spring Hill Design

INTERIORS

ARCHITECTURE

SPACE PLANNING

158 Central Street, Somerville, MA, 02145 ~ 617.6702.4622



DATE: 09.04.20

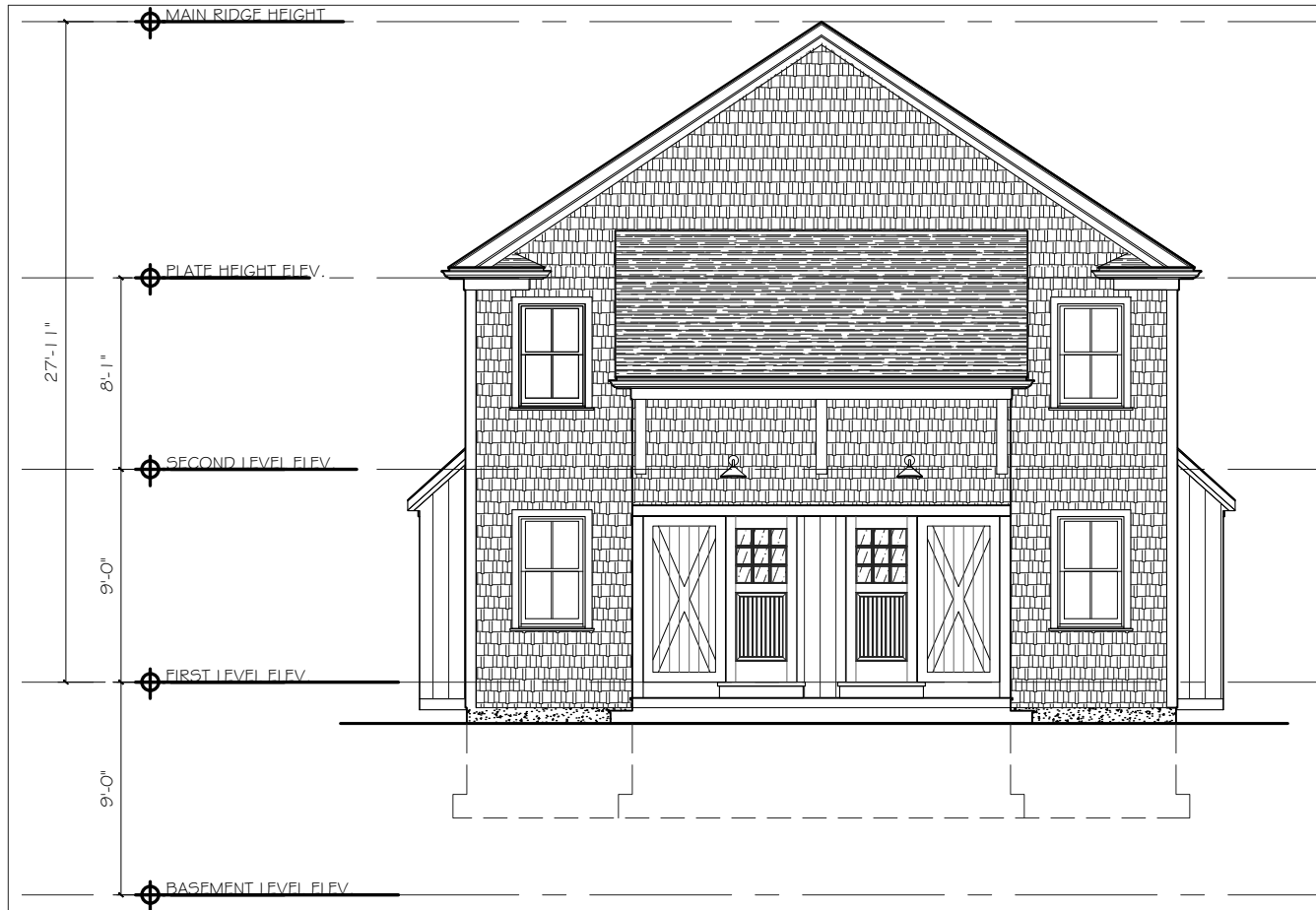
FLOOR PLANS

CLOVERLEAF BUILDINGS 9-11, 10-12, 17-19, AND 18-20
CLOVERLEAF TRURO RENTAL HOUSING

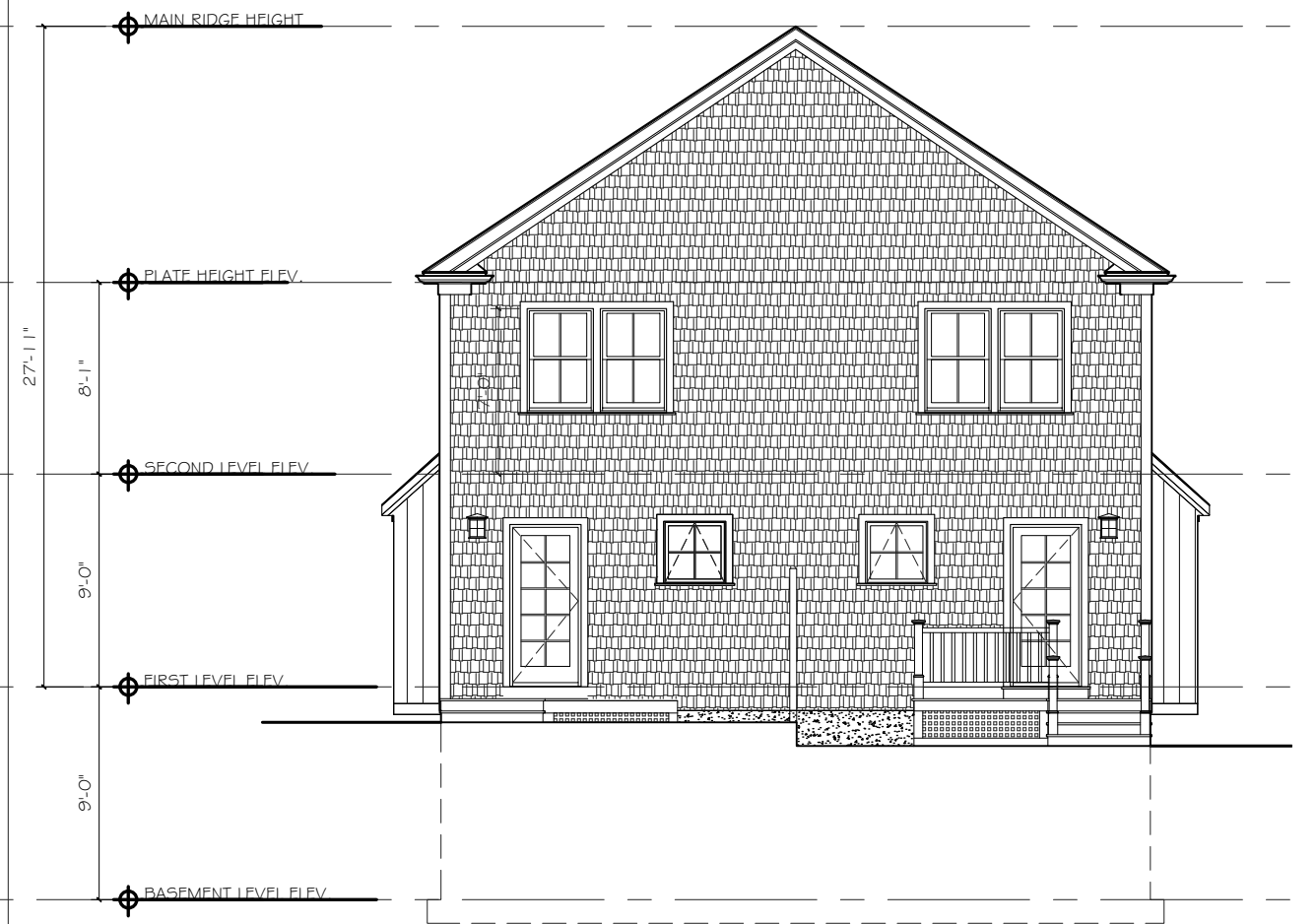
SPRING HILL DESIGN
ARCHITECTURE INTERIORS SPACE PLANNING
158 Central Street, Somerville, MA, 02145 ~ 617.6702.4622

$$18'' = 1'-0''$$

Al.O



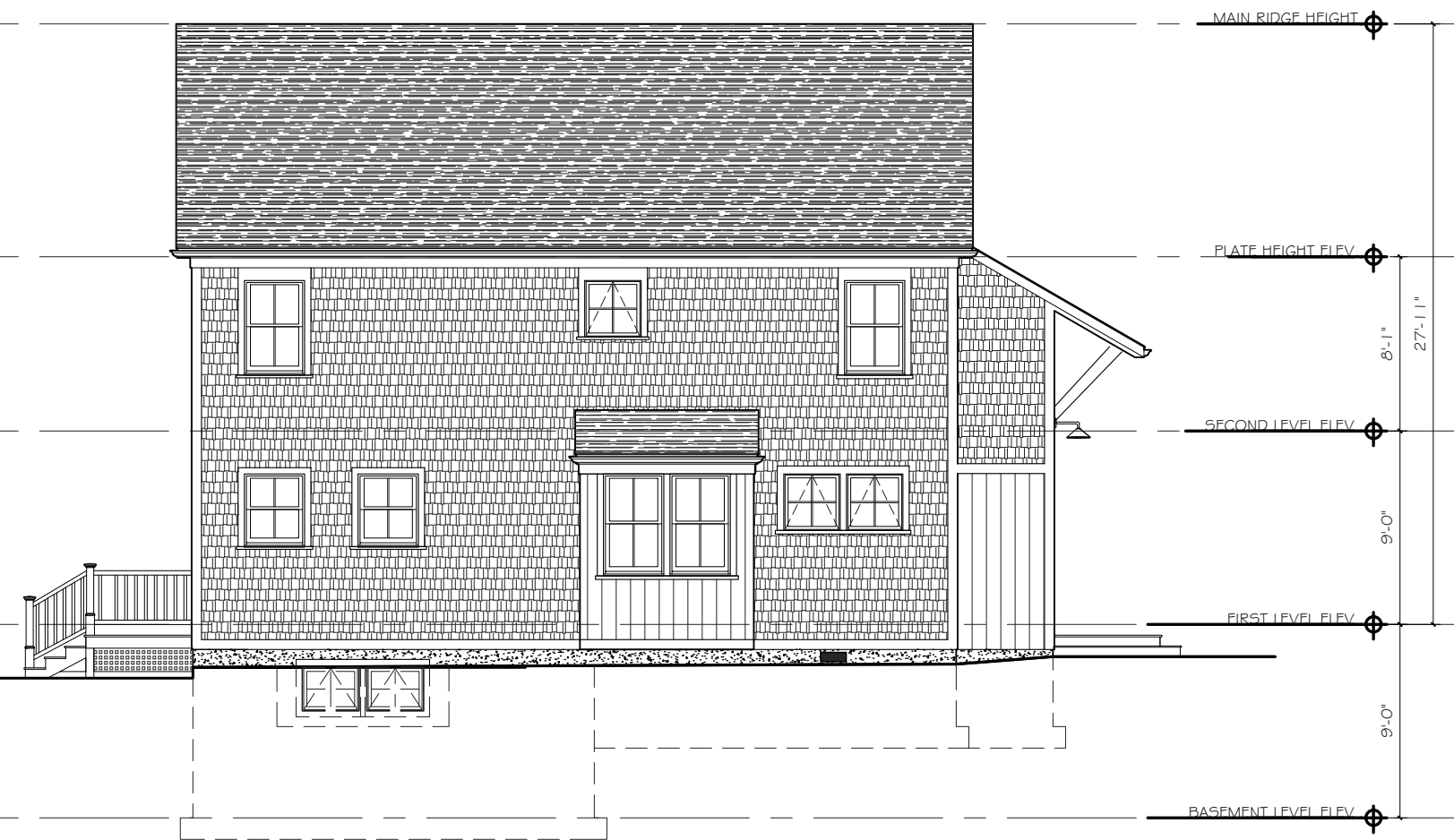
① FRONT ELEVATION
SCALE: 1/8" = 1'-0"



③ BACK ELEVATION
SCALE: 1/8" = 1'-0"



② SIDE ELEVATION 1 (SIDE MAY BE MIRRORED DEPENDING ON THE BUILDING)
SCALE: 1/8" = 1'-0"



④ SIDE ELEVATION 2 (SIDE MAY BE MIRRORED DEPENDING ON THE BUILDING)
SCALE: 1/8" = 1'-0"

ELEVATIONS

CLOVERLEAF BUILDINGS 9-11, 10-12, 17-19, AND 18-20
CLOVERLEAF TRURO RENTAL HOUSING

SPRING HILL DESIGN
ARCHITECTURE INTERIORS SPACE PLANNING
138 Central Street, Somerville, MA, 02145 ~ 617.6702.4622

1/8" = 1'-0"

A2.1

DATE:
09.04.20



CLOVERLEAF TRURO RENTAL HOUSING BUILDINGS 13-15 AND 14-16

Truro, Massachusetts

Friday, September 4, 2020

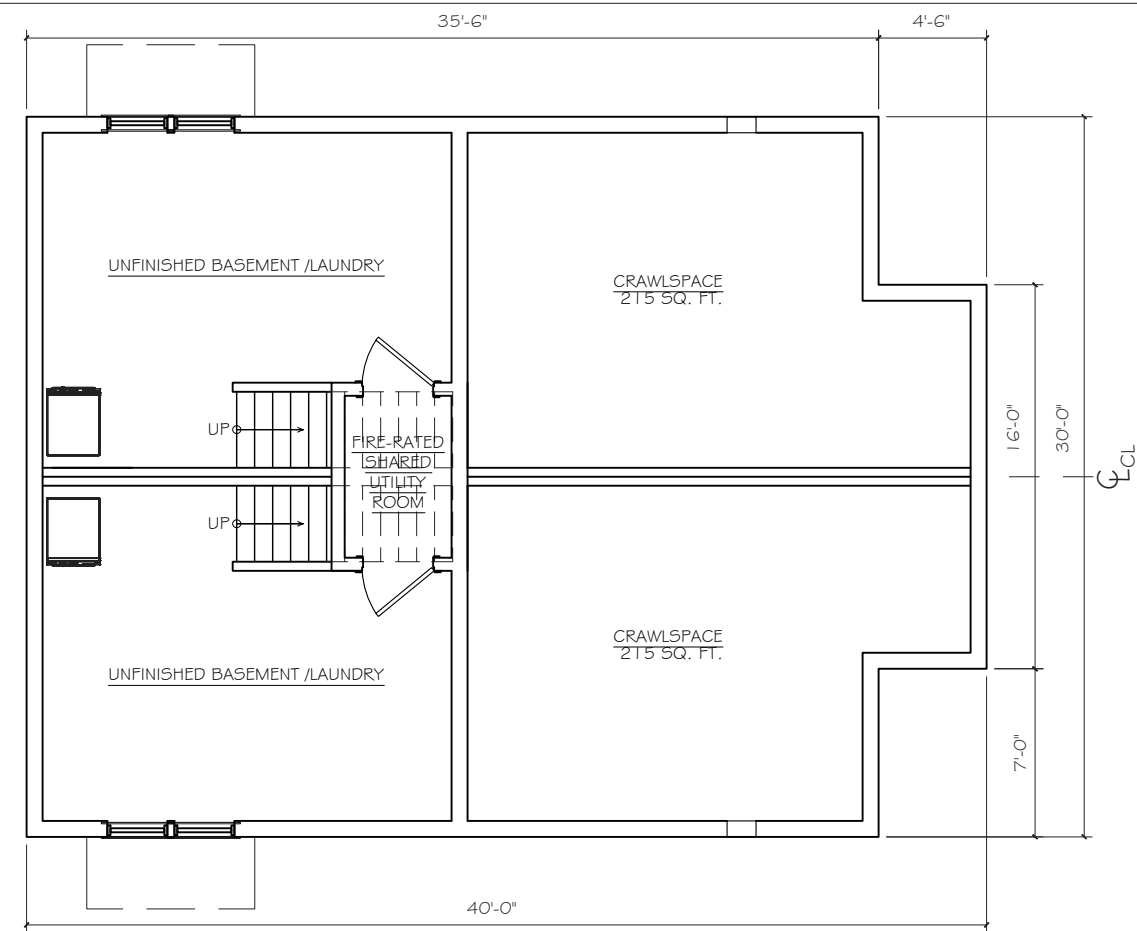
Spring Hill Design

INTERIORS

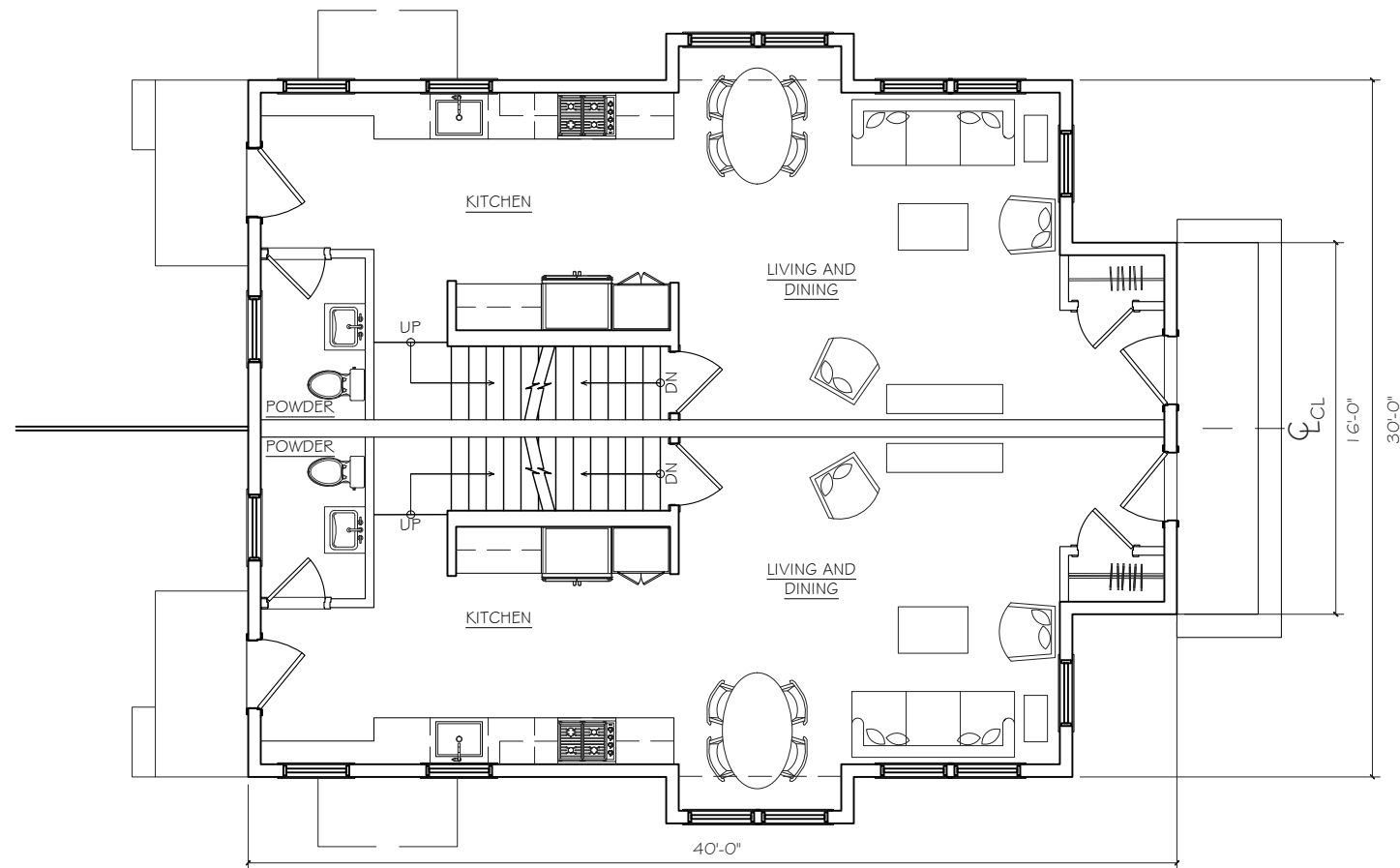
ARCHITECTURE

SPACE PLANNING

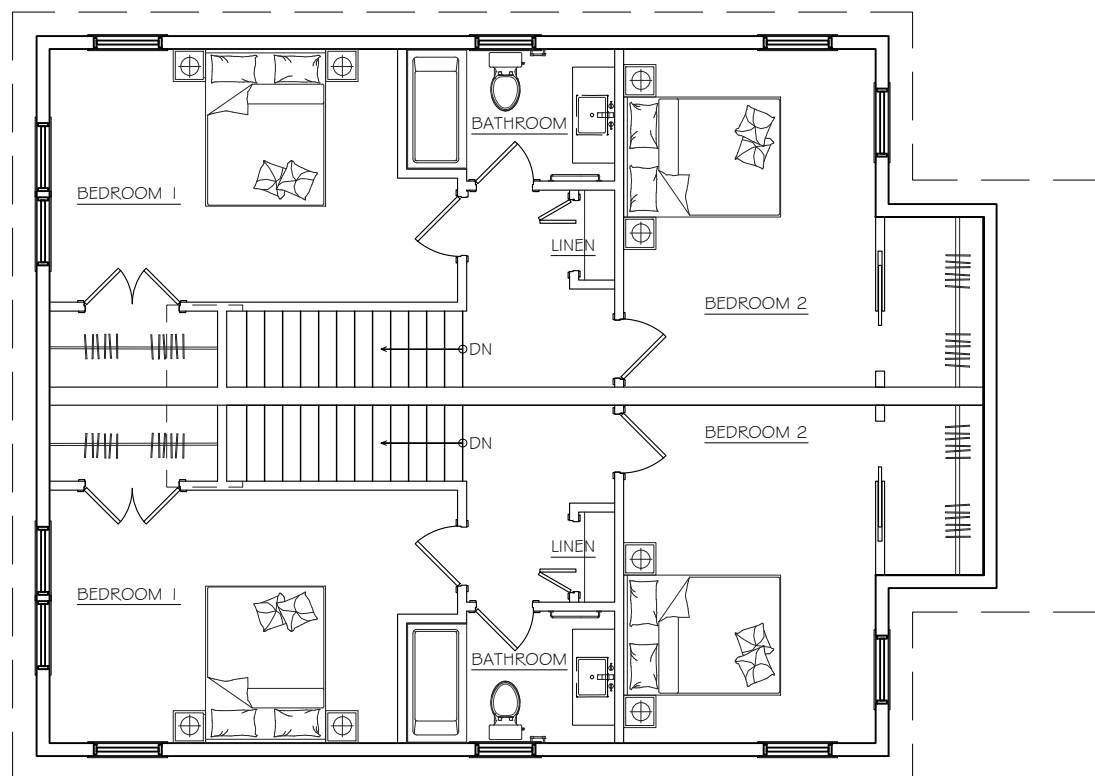
158 Central Street, Somerville, MA, 02145 ~ 617.6702.4622



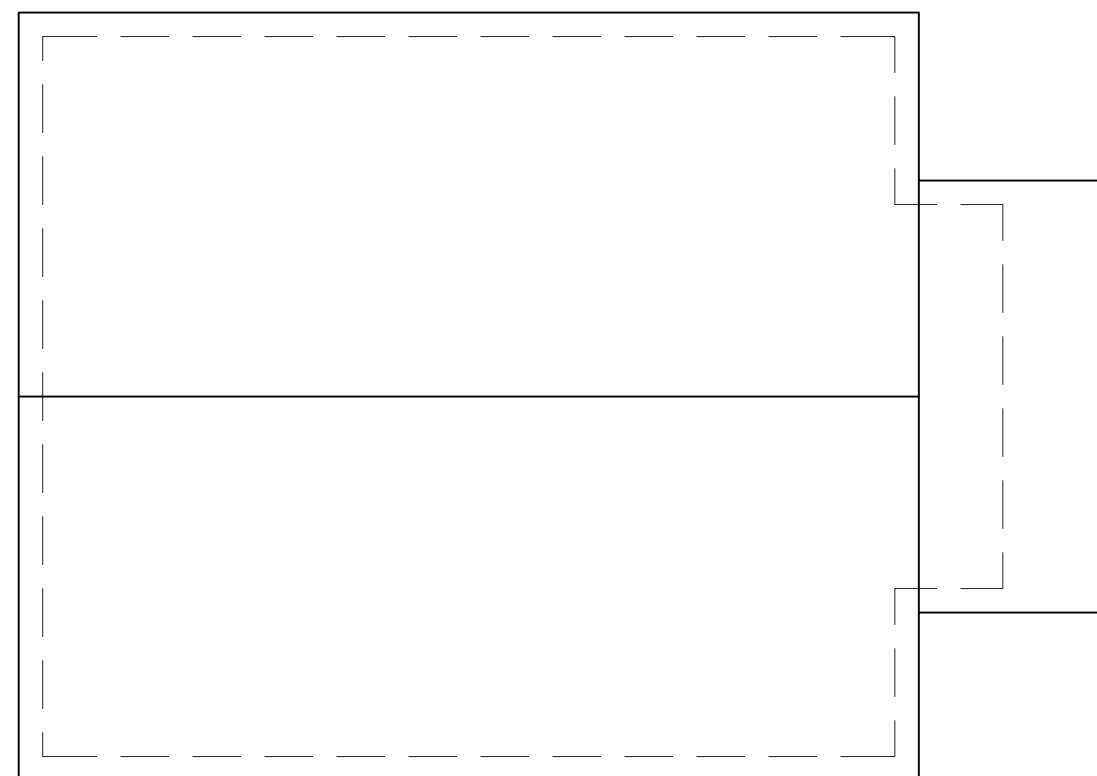
1 BASEMENT PLAN
SCALE: 1/8" = 1'-0"



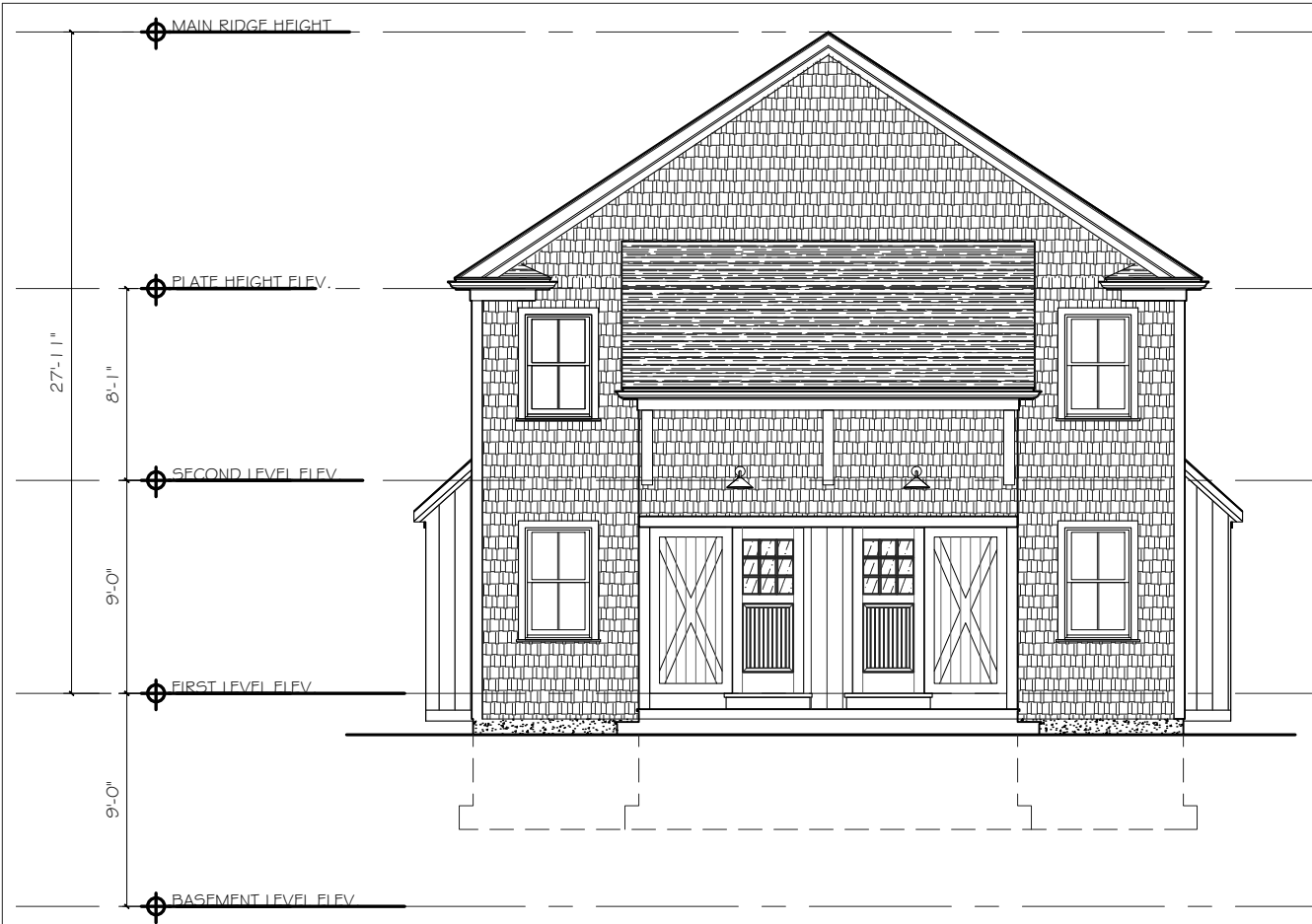
2 FIRST LEVEL PLAN
SCALE: 1/8" = 1'-0"



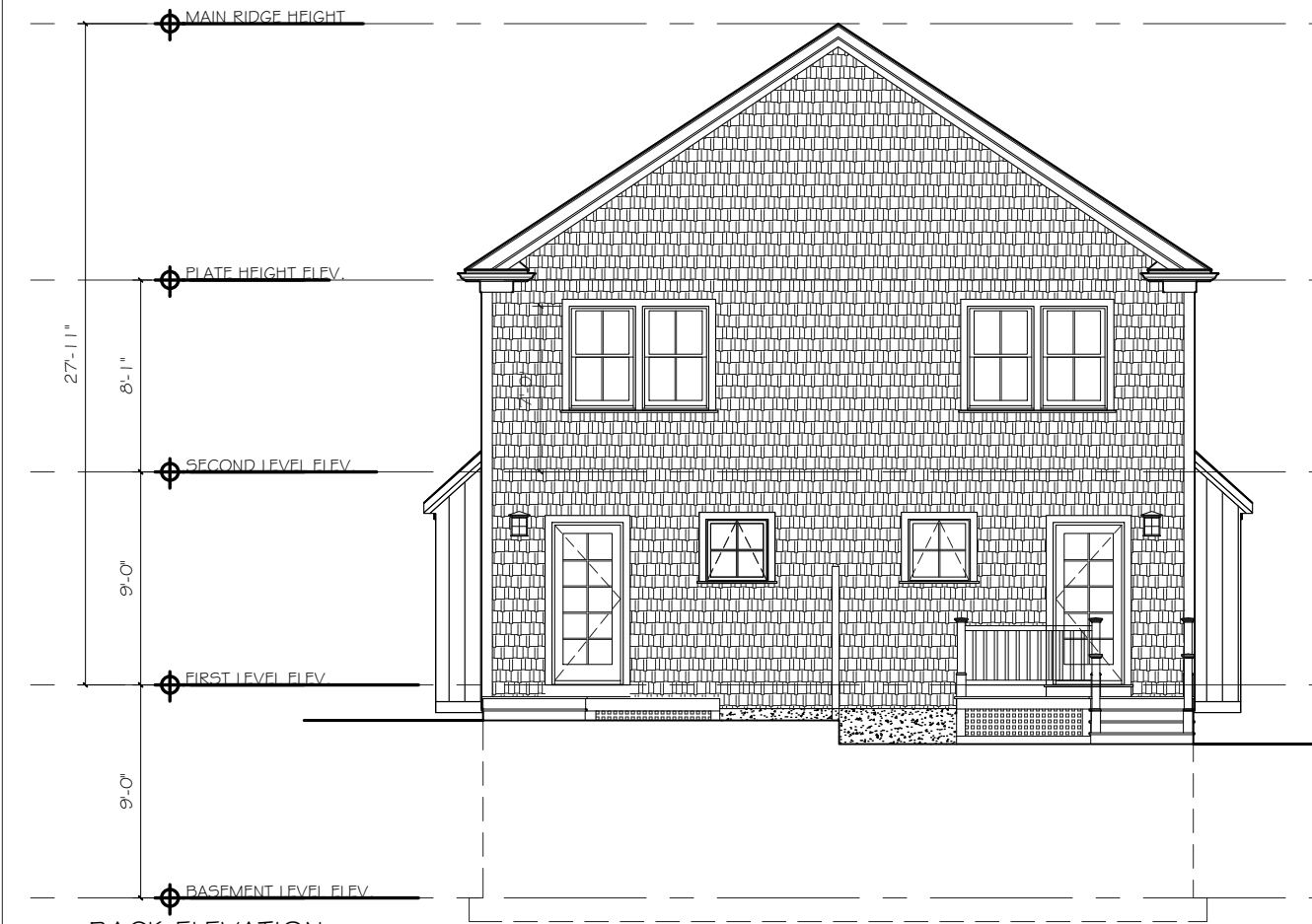
3 SECOND LEVEL PLAN
SCALE: 1/8" = 1'-0"



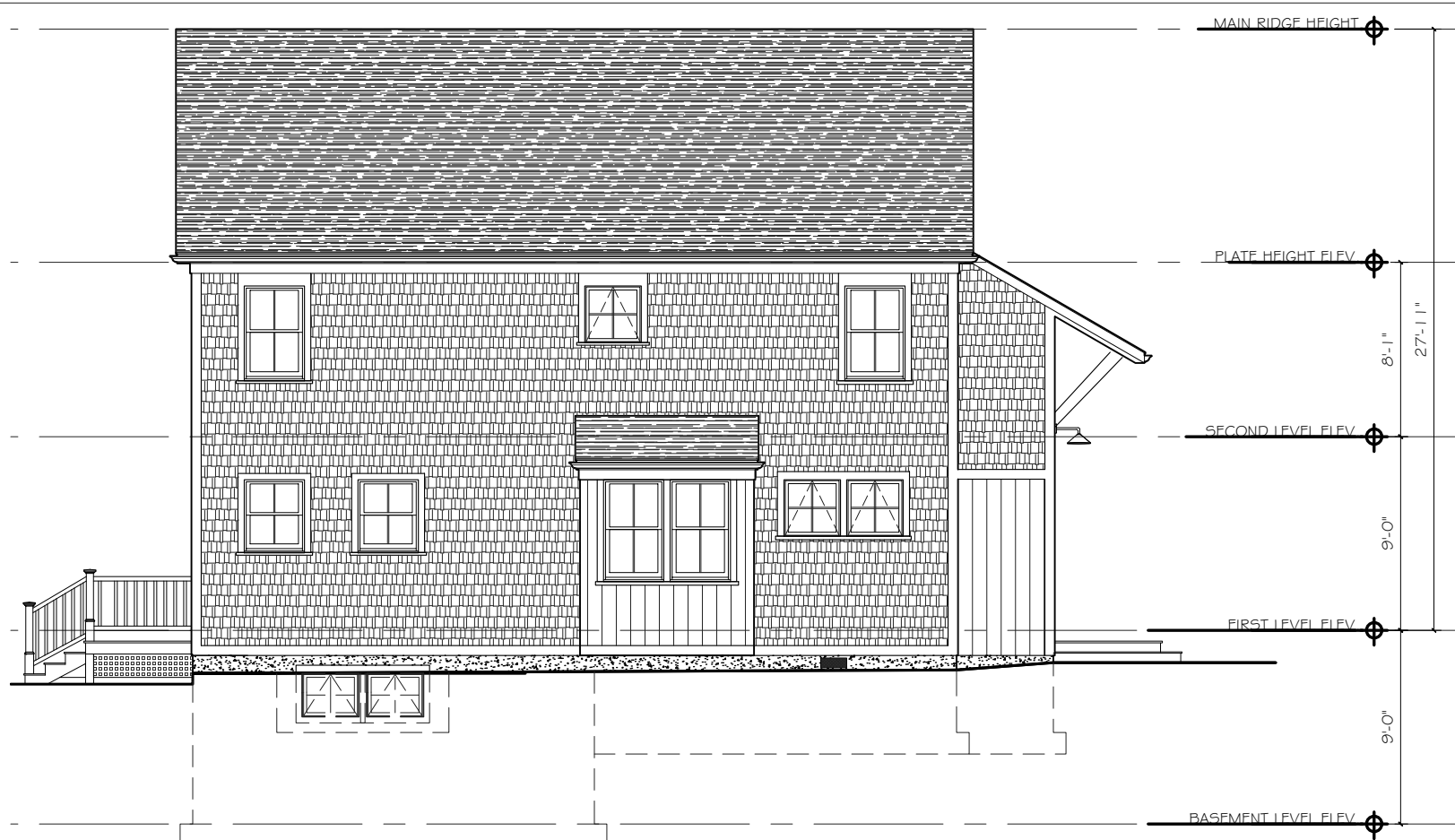
2 ROOF PLAN
SCALE: 1/8" = 1'-0"



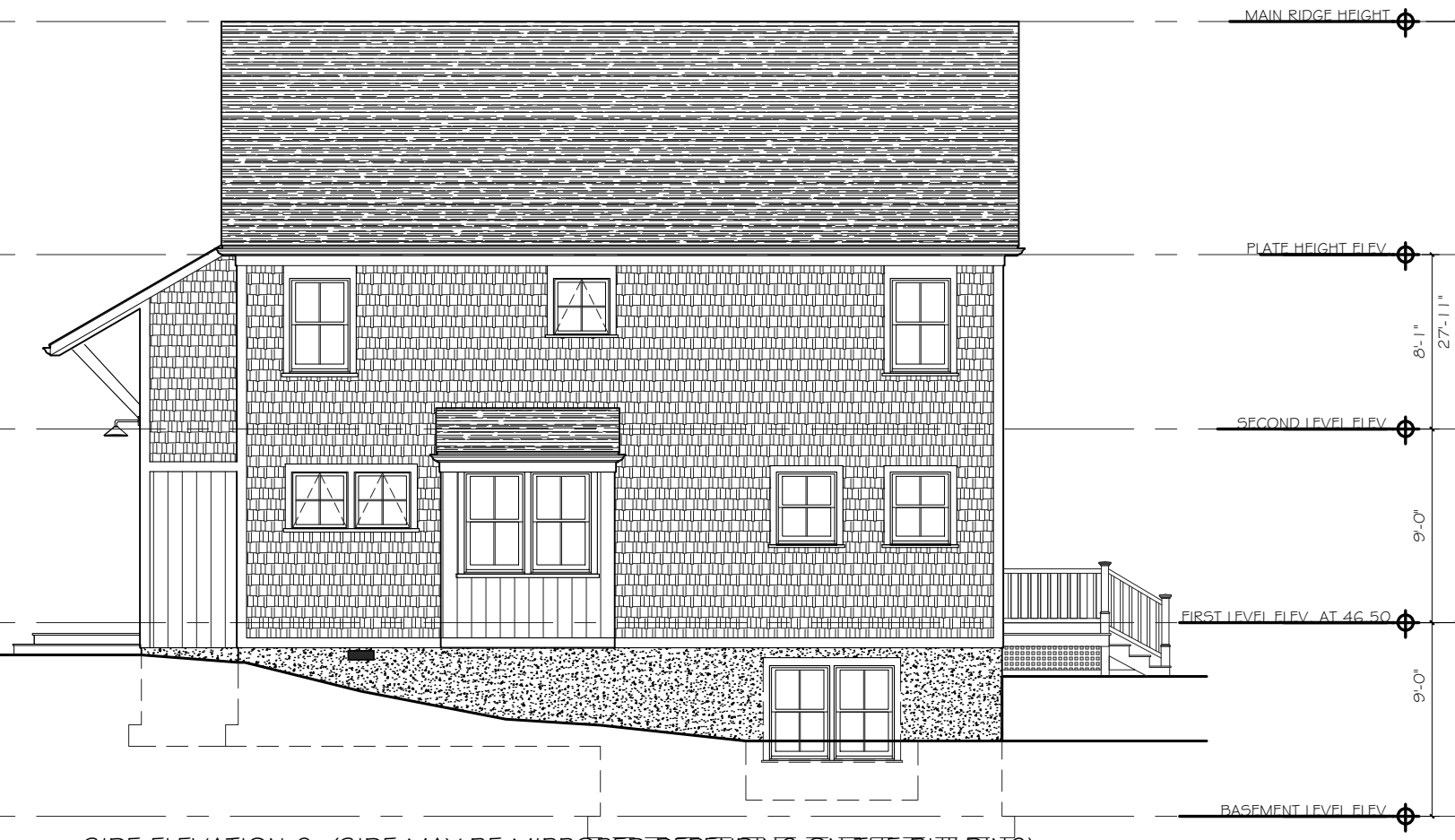
① FRONT ELEVATION
SCALE: 1/8" = 1'-0"



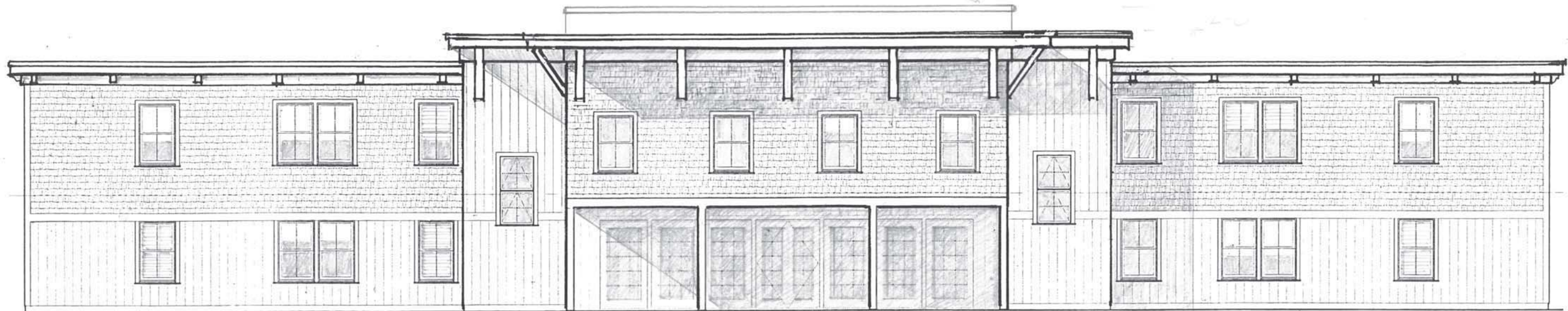
③ BACK ELEVATION
SCALE: 1/8" = 1'-0"



② SIDE ELEVATION 1 (SIDE MAY BE MIRRORED DEPENDING ON THE BUILDING)
SCALE: 1/8" = 1'-0"



④ SIDE ELEVATION 2 (SIDE MAY BE MIRRORED DEPENDING ON THE BUILDING)
SCALE: 1/8" = 1'-0"



**CLOVERLEAF TRURO RENTAL HOUSING
BUILDING 21**
Truro, Massachusetts

Thursday, September 17, 2020

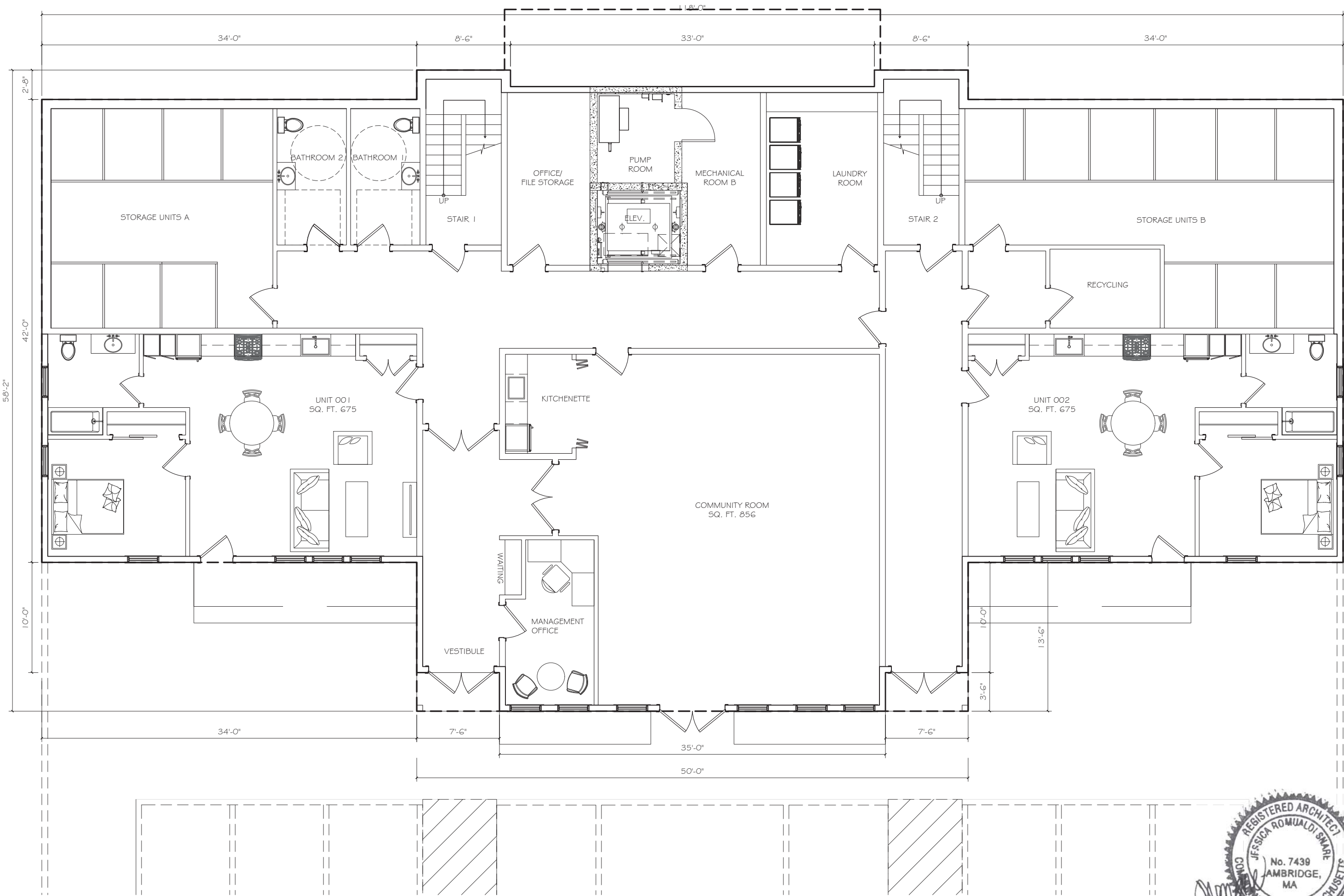
Spring Hill Design

INTERIORS

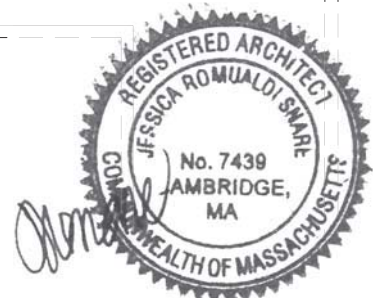
ARCHITECTURE

SPACE PLANNING

21 Dartmouth Street, Somerville, MA, 02145 ~ 617.623.1833



1 BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"



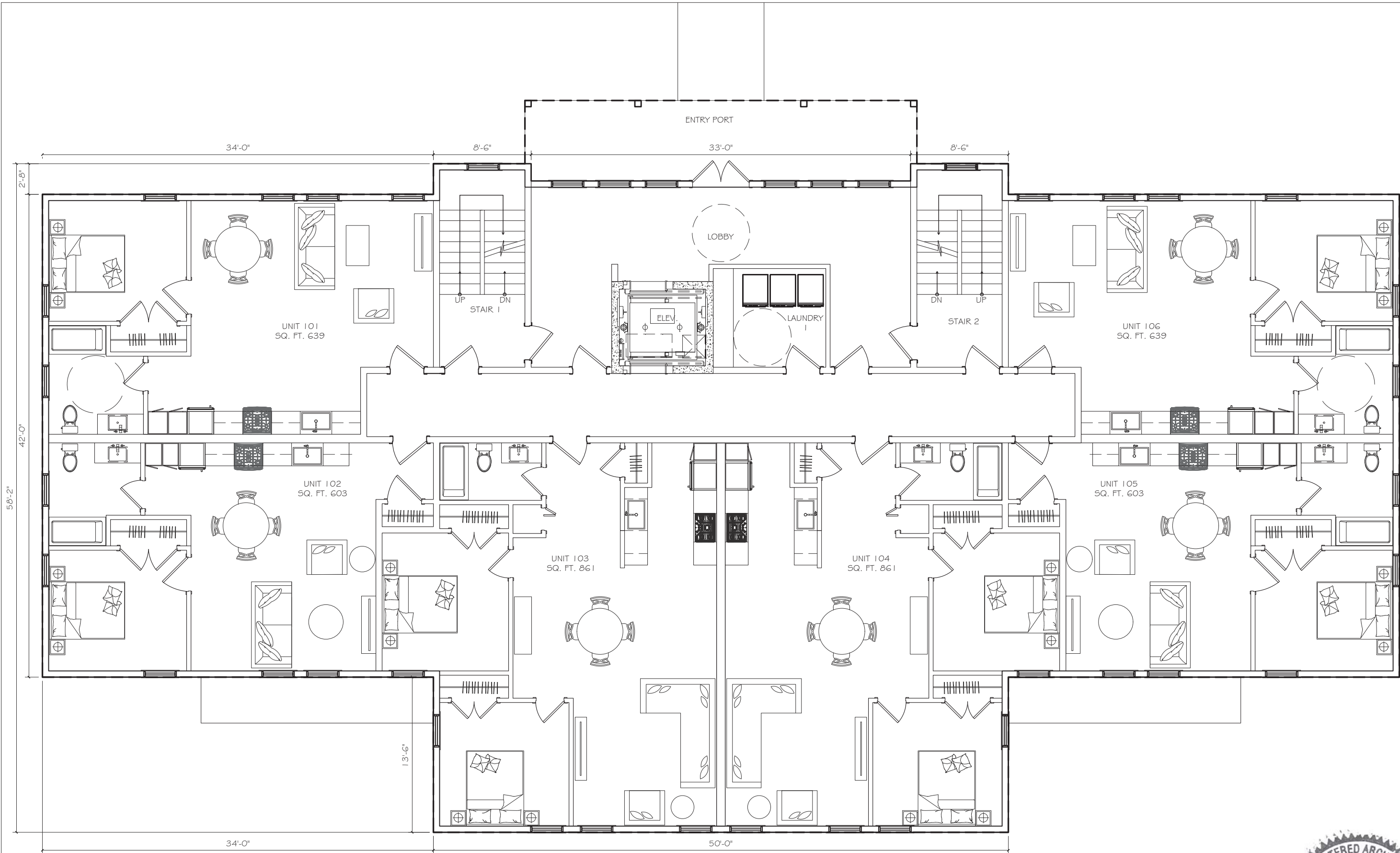
DATE:
09.17.20

BASEMENT FLOOR PLAN
CLOVERLEAF BUILDING 21
CLOVERLEAF TRURO RENTAL HOUSING

SPRING HILL DESIGN
ARCHITECTURE INTERIORS SPACE PLANNING
21 Dartmouth Street, Somerville, Massachusetts 02145 ~ 617.623.1833

1/8" = 1'-0"

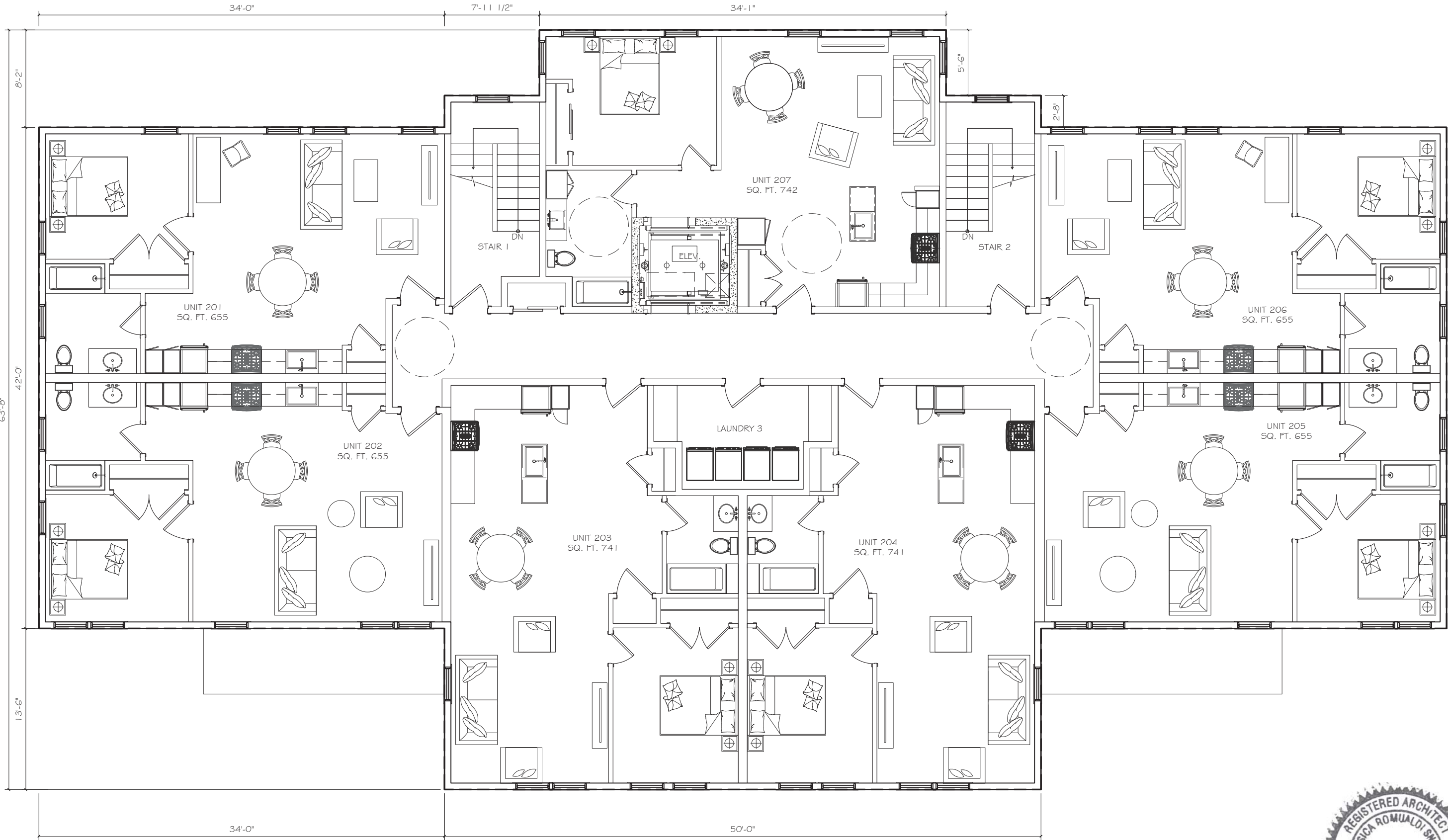
A1.0



1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

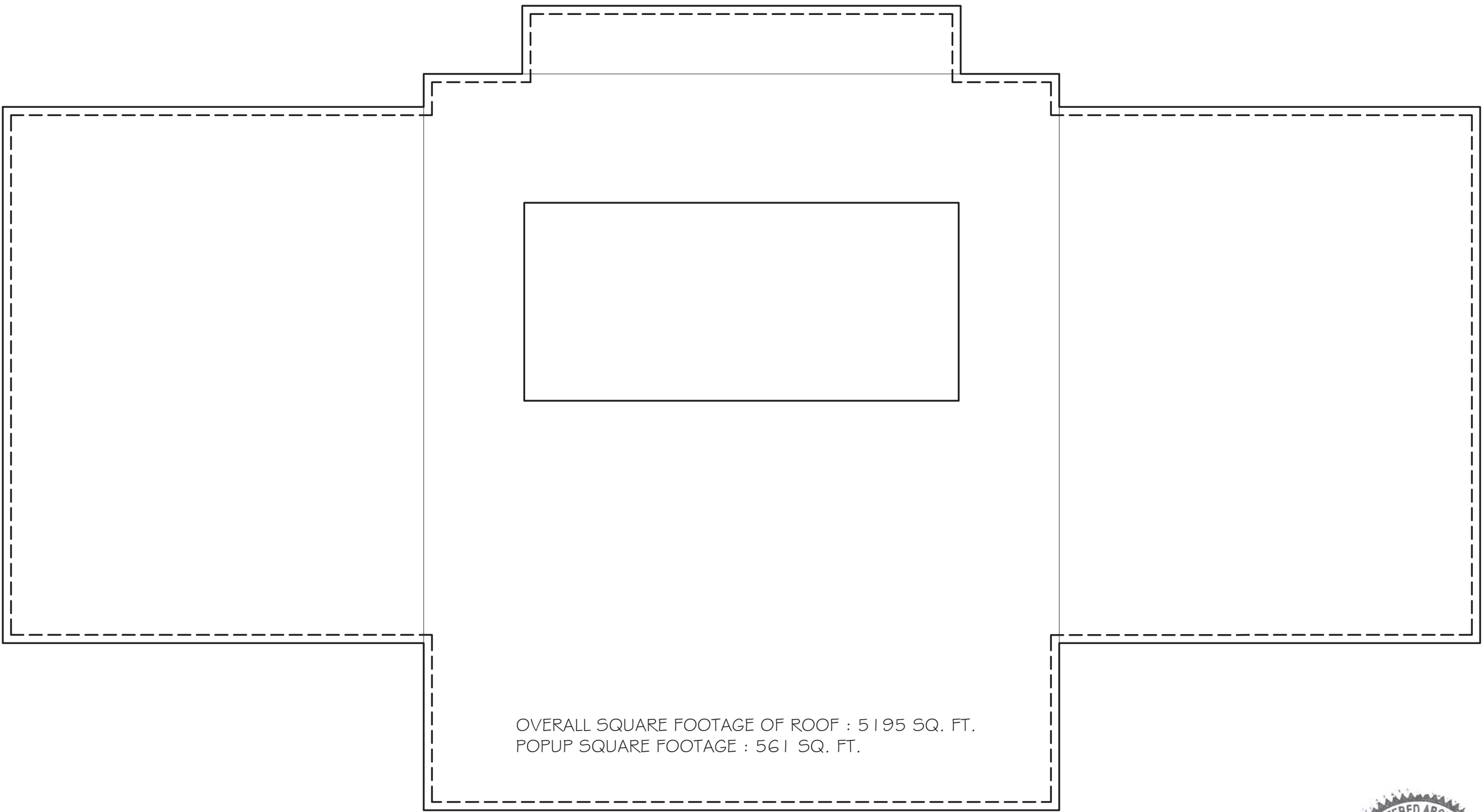


DATE: 09.17.20	FIRST FLOOR PLAN CLOVERLEAF BUILDING 21 CLOVERLEAF TRURO RENTAL HOUSING	SPRING HILL DESIGN ARCHITECTURE INTERIORS SPACE PLANNING 21 Dartmouth Street, Somerville, Massachusetts 02145 ~ 617.623.1833	1/8" = 1'-0"	A1.1
-------------------	---	--	--------------	------



1 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



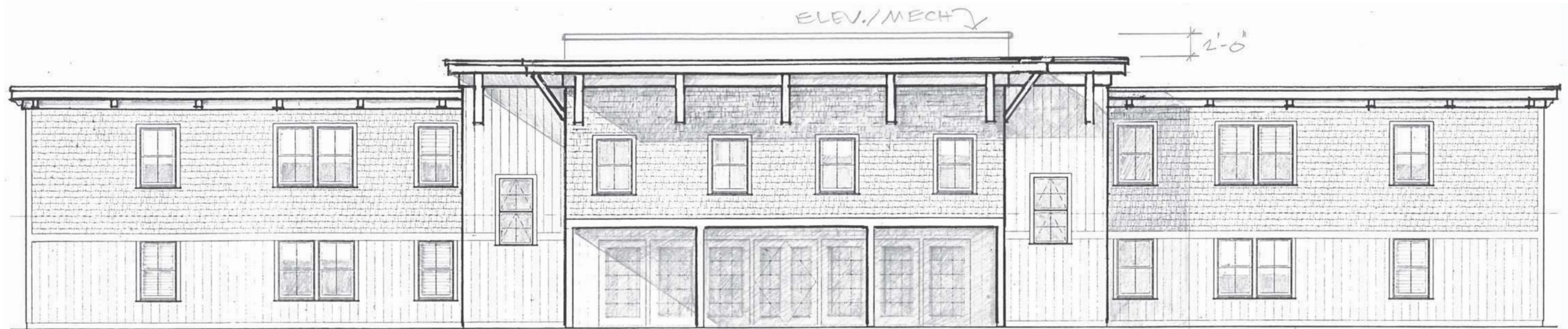


OVERALL SQUARE FOOTAGE OF ROOF : 5195 SQ. FT.
POPUP SQUARE FOOTAGE : 561 SQ. FT.

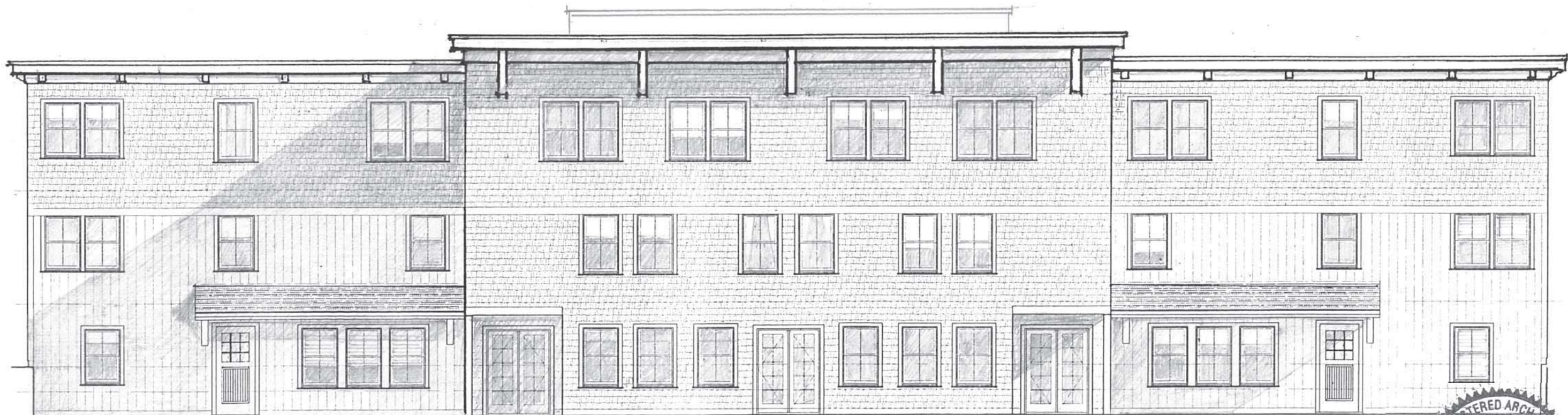
1 ROOF PLAN
SCALE: 1/8" = 1'-0"



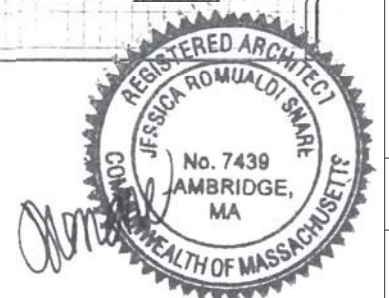
DATE: 09.17.20	ROOF PLAN CLOVERLEAF BUILDING 21 CLOVERLEAF TRURO RENTAL HOUSING	SPRING HILL DESIGN ARCHITECTURE INTERIORS SPACE PLANNING 21 Dartmouth Street, Somerville, Massachusetts 02145 ~ 617.623.1833	1/8" = 1'-0"
			A1.3



1 FRONT ELEVATION
SCALE: 1/8" = 1'-0"



2 BACK ELEVATION
SCALE: 1/8" = 1'-0"



FRONT AND BACK ELEVATIONS

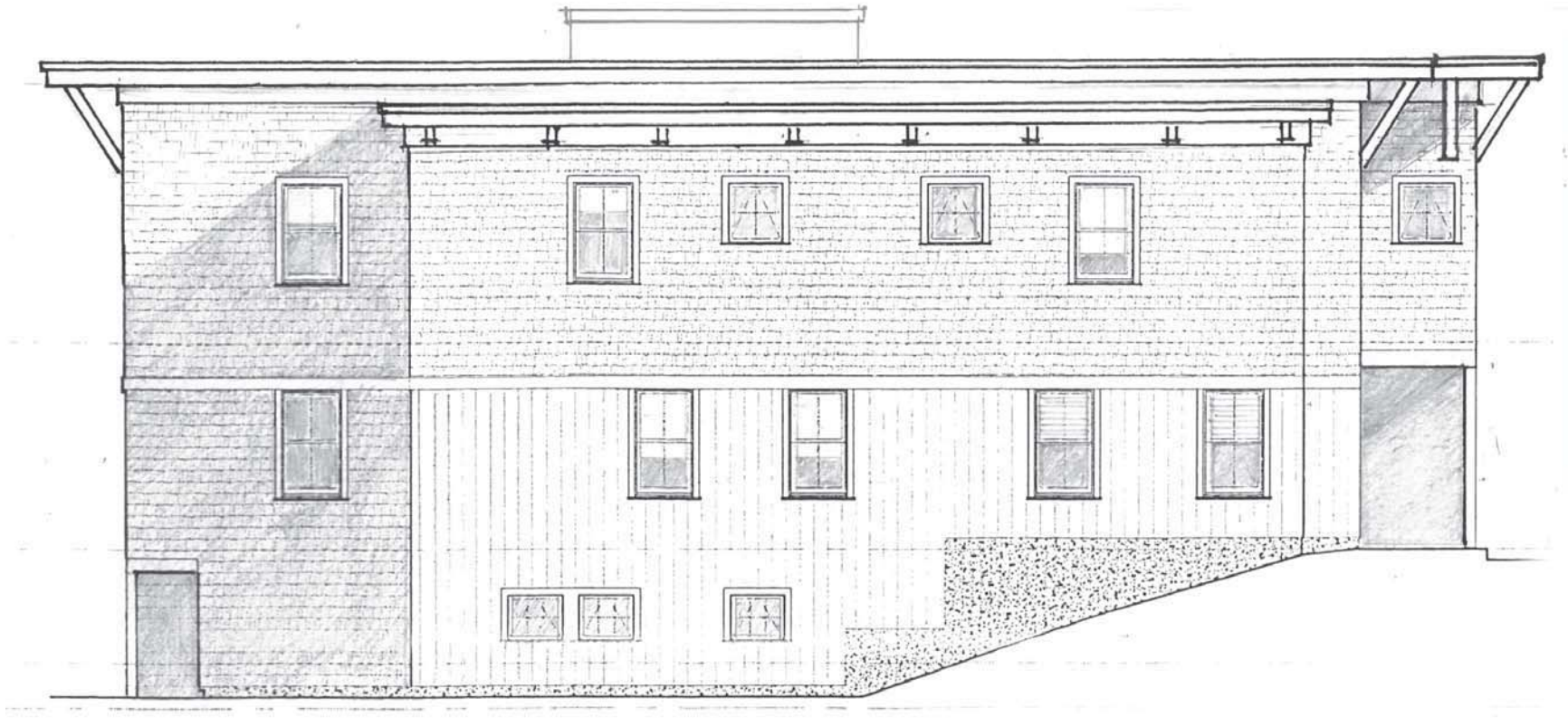
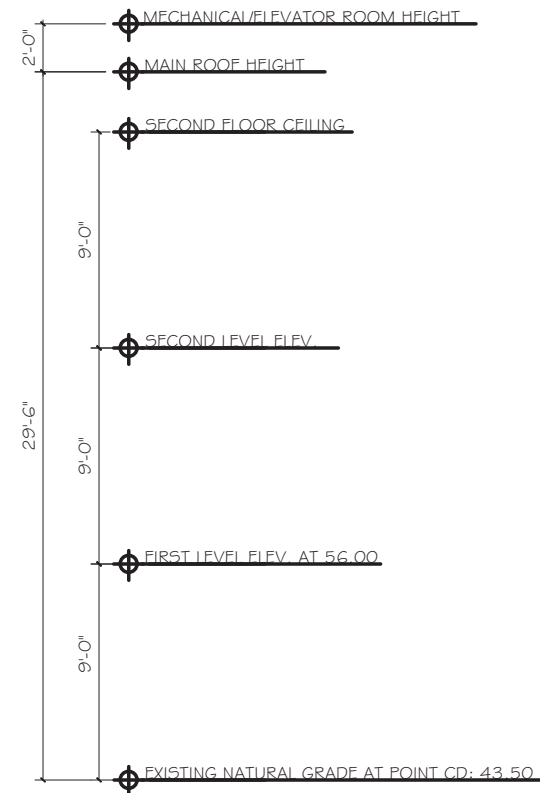
CLOVERLEAF BUILDING 21
CLOVERLEAF TRURO RENTAL HOUSING

SPRING HILL DESIGN
ARCHITECTURE INTERIORS SPACE PLANNING
21 Dartmouth Street, Somerville, Massachusetts 02145 ~ 617.623.1833

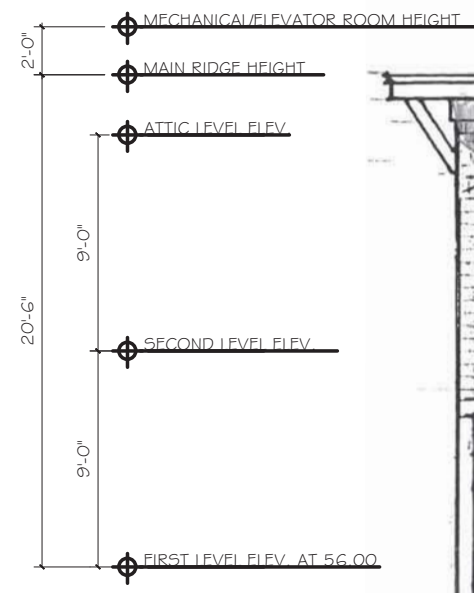
DATE:
09.17.20

1/8" = 1'-0"

A2.1



① LEFT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



② RIGHT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



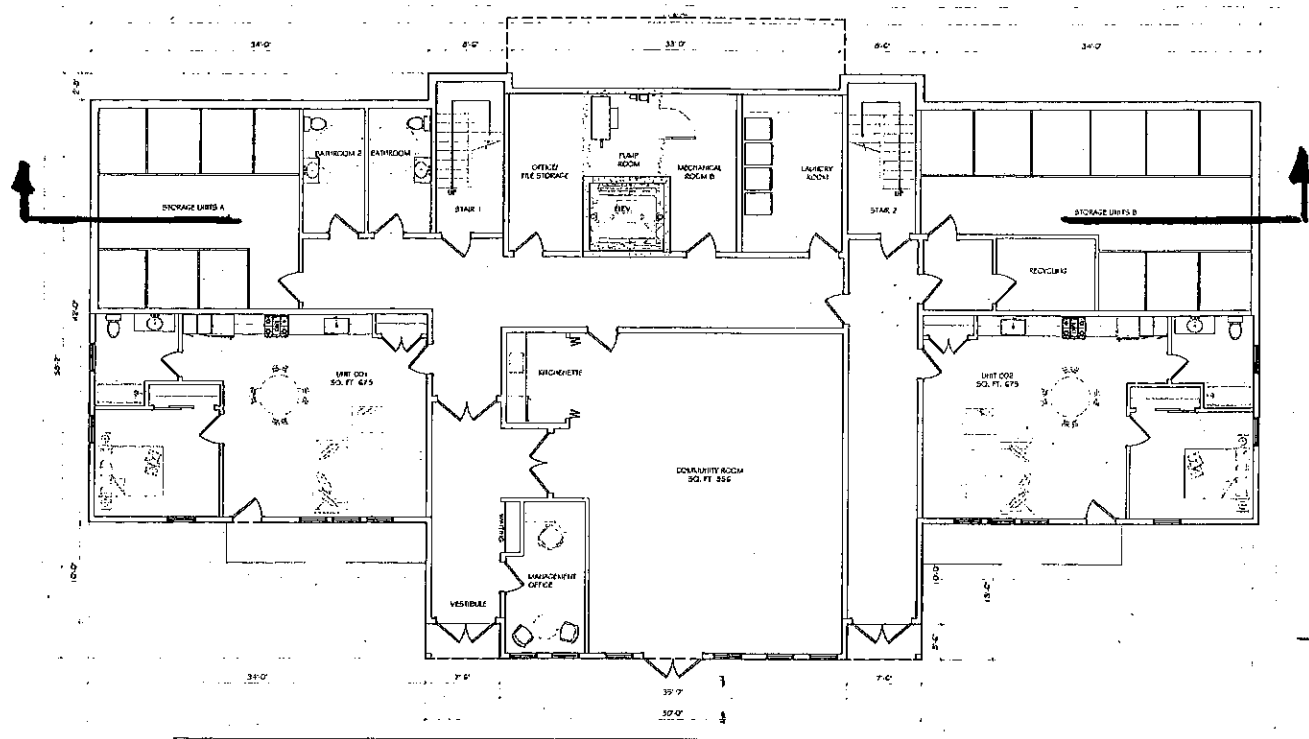
LEFT AND RIGHT SIDE ELEVATIONS

CLOVERLEAF BUILDING 21
CLOVERLEAF TRURO RENTAL HOUSING

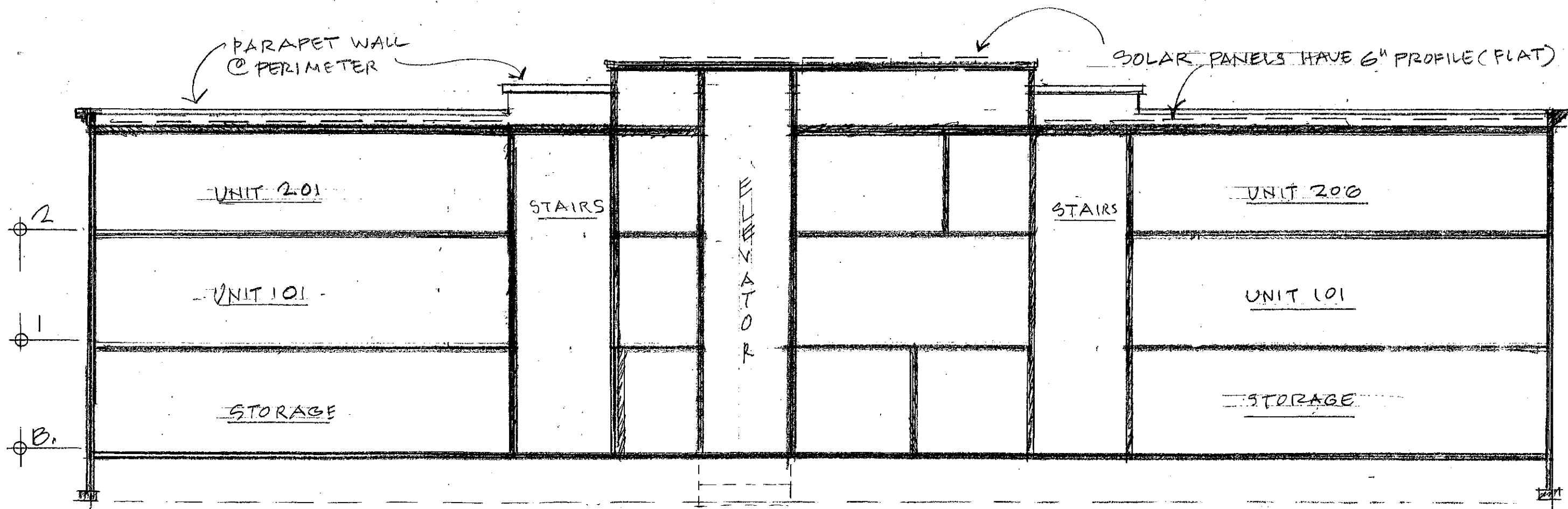
SPRING HILL DESIGN
ARCHITECTURE INTERIORS SPACE PLANNING
21 Dartmouth Street, Somerville, Massachusetts 02145 ~ 617.623.1833

DATE:
09.17.20

1/8" = 1'-0"



KEY PLAN



SCHEMATIC SECTION

SPRING HILL DESIGN
158 CENTRAL STREET
SOMERVILLE MA 02145

SCHEMATIC SECTION OF BUILDING 21
CLOVERLEAF TRURO RENTAL HOUSING

9.25.20

9.25.20



CLOVERLEAF TRURO RENTAL HOUSING
BUILDING 22-24 AND 23-25(MIRRORED)
Truro, Massachusetts

Friday, September 4, 2020

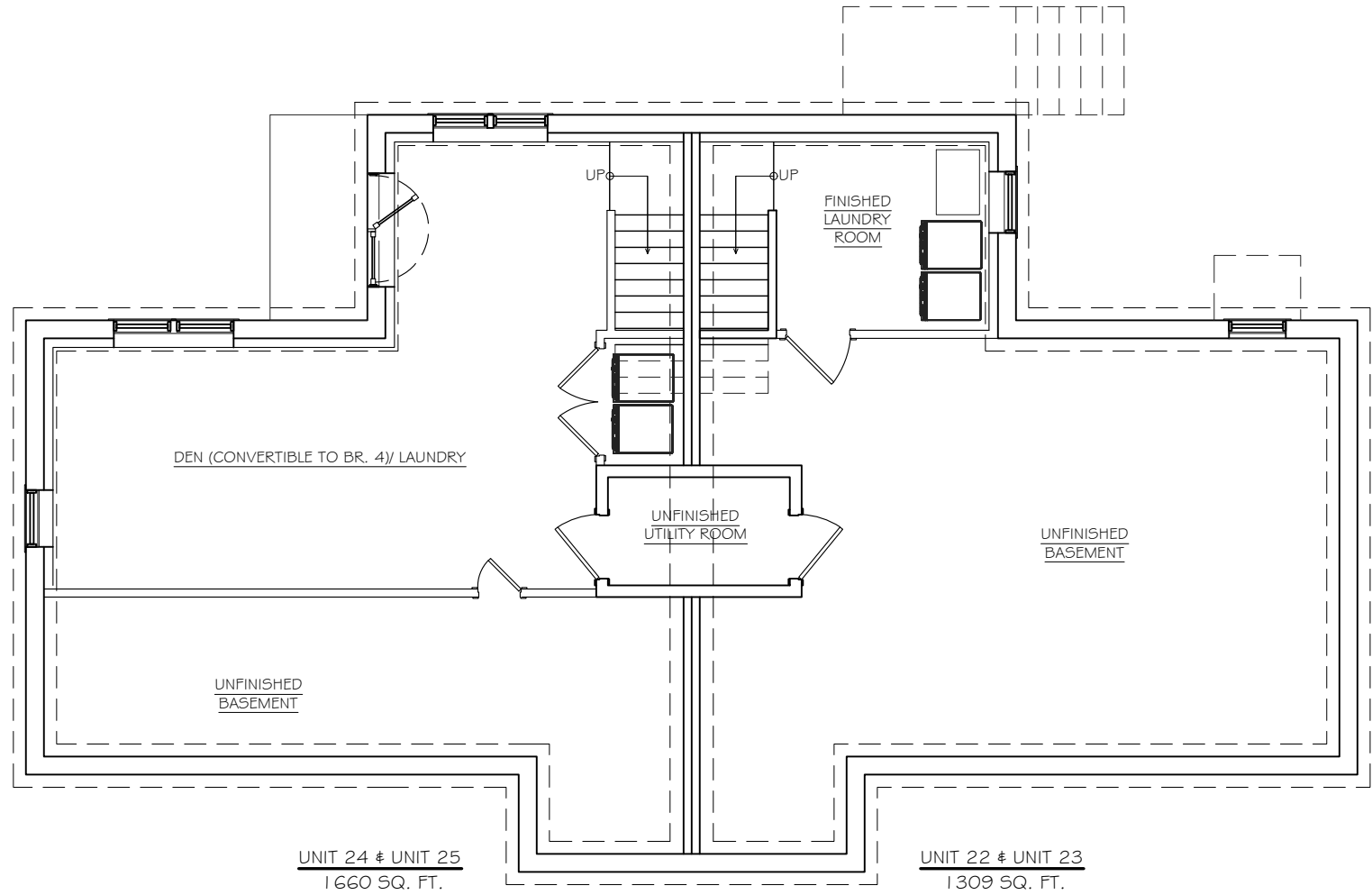
Spring Hill Design

INTERIORS

ARCHITECTURE

SPACE PLANNING

158 Central Street, Somerville, MA, 02145 ~ 617.6702.4622



1 BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"

BASEMENT FLOOR PLAN

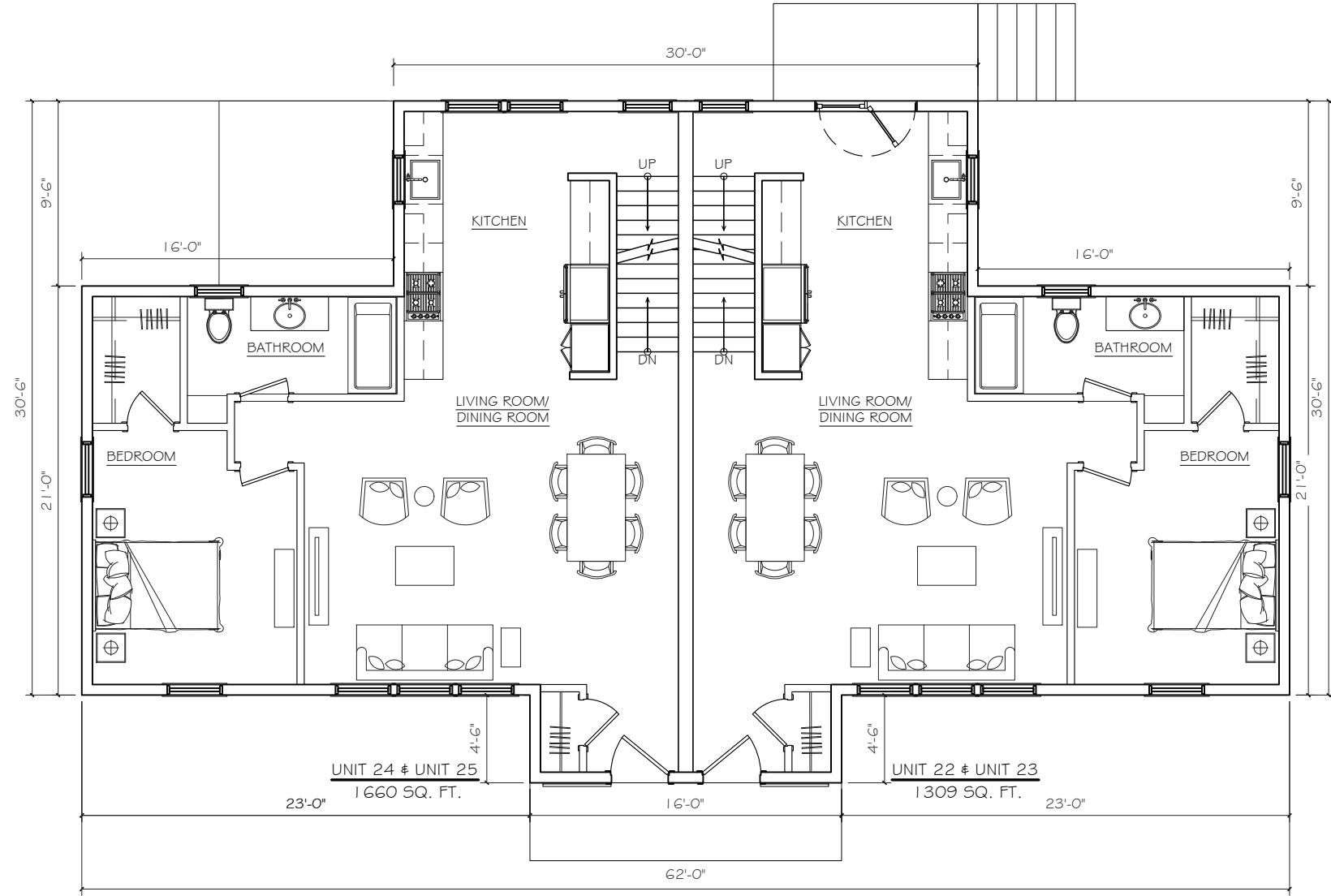
CLOVERLEAF BUILDING 22-24 AND 23-25 (MIRRORED)
CLOVERLEAF TRURO RENTAL HOUSING

DATE:
09.04.20

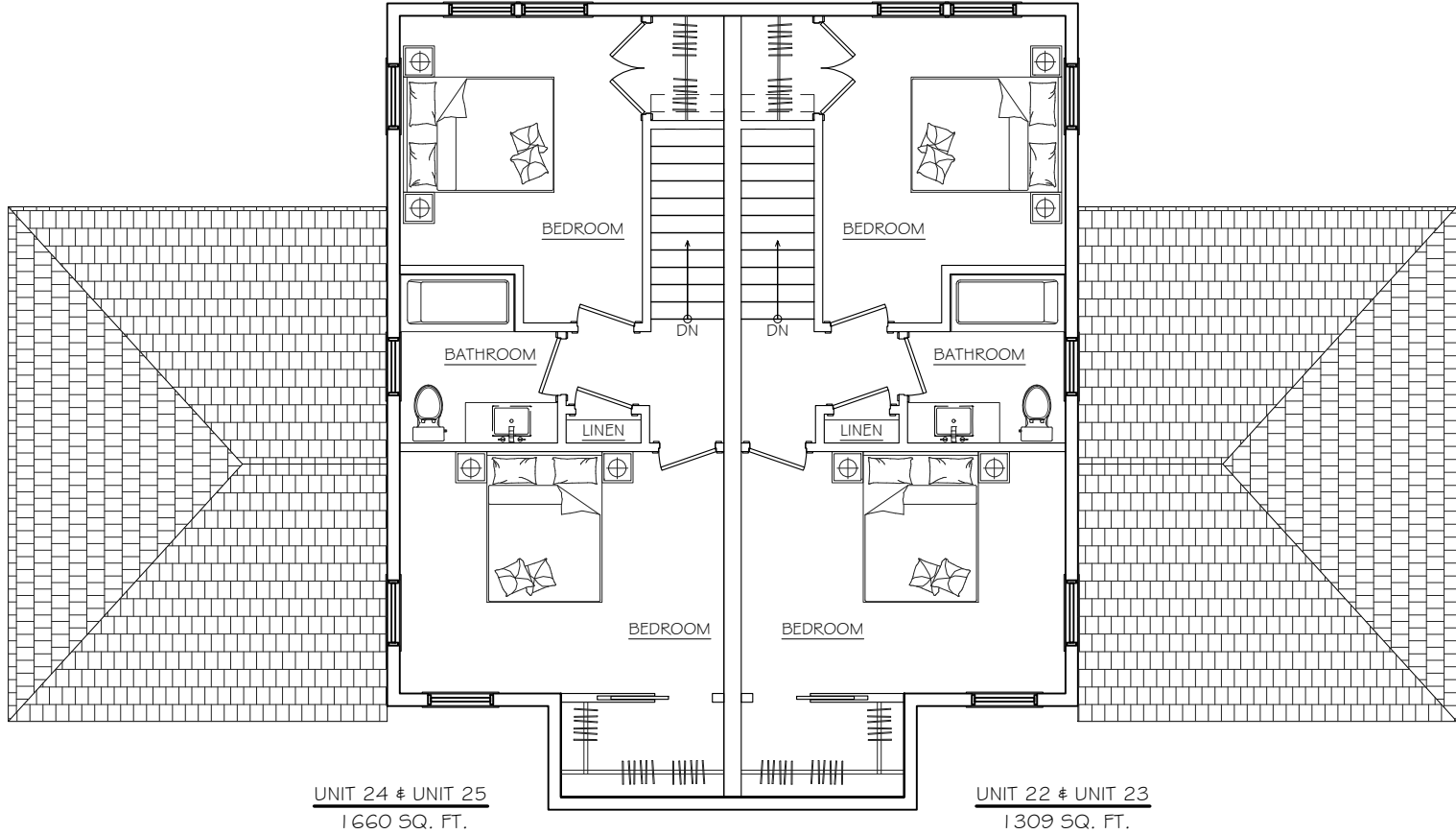
S P R I N G H I L L D E S I G N
ARCHITECTURE INTERIORS SPACE PLANNING
138 Central Street, Somerville, MA, 02145 ~ 617.6702.4622

1/8" = 1'-0"

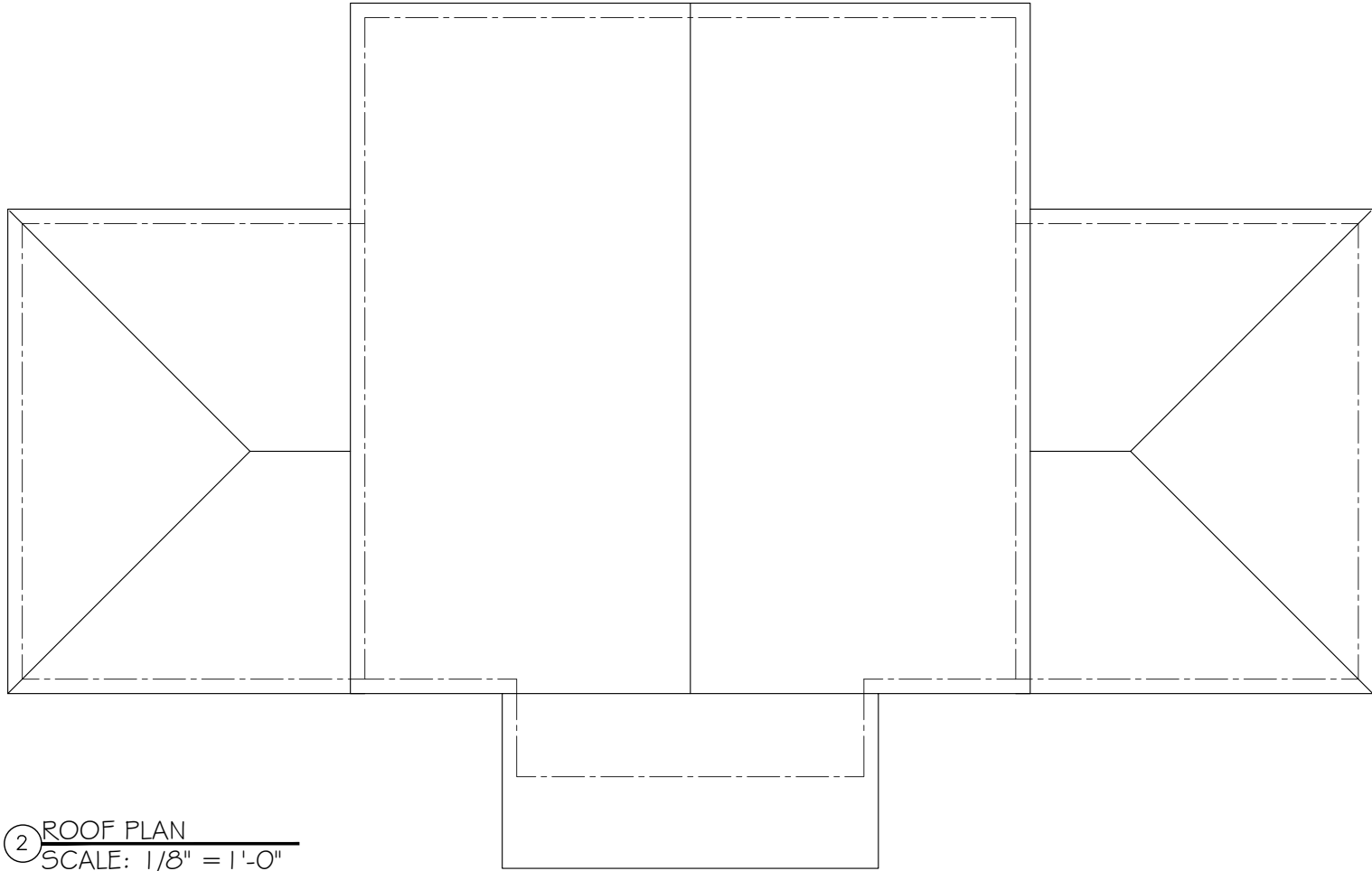
A1.0



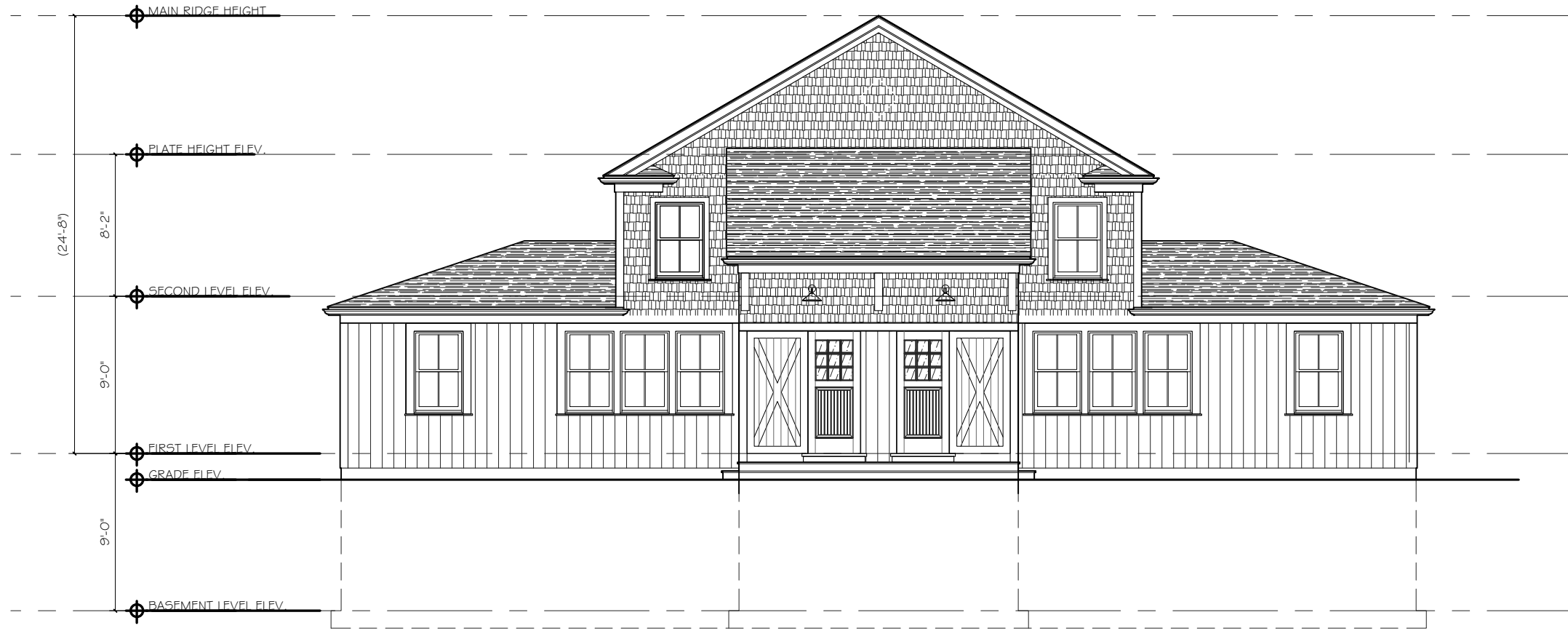
1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 ROOF PLAN
SCALE: 1/8" = 1'-0"



1 FRONT ELEVATION
SCALE: 1/8" = 1'-0"



1 BACK ELEVATION
SCALE: 1/8" = 1'-0"

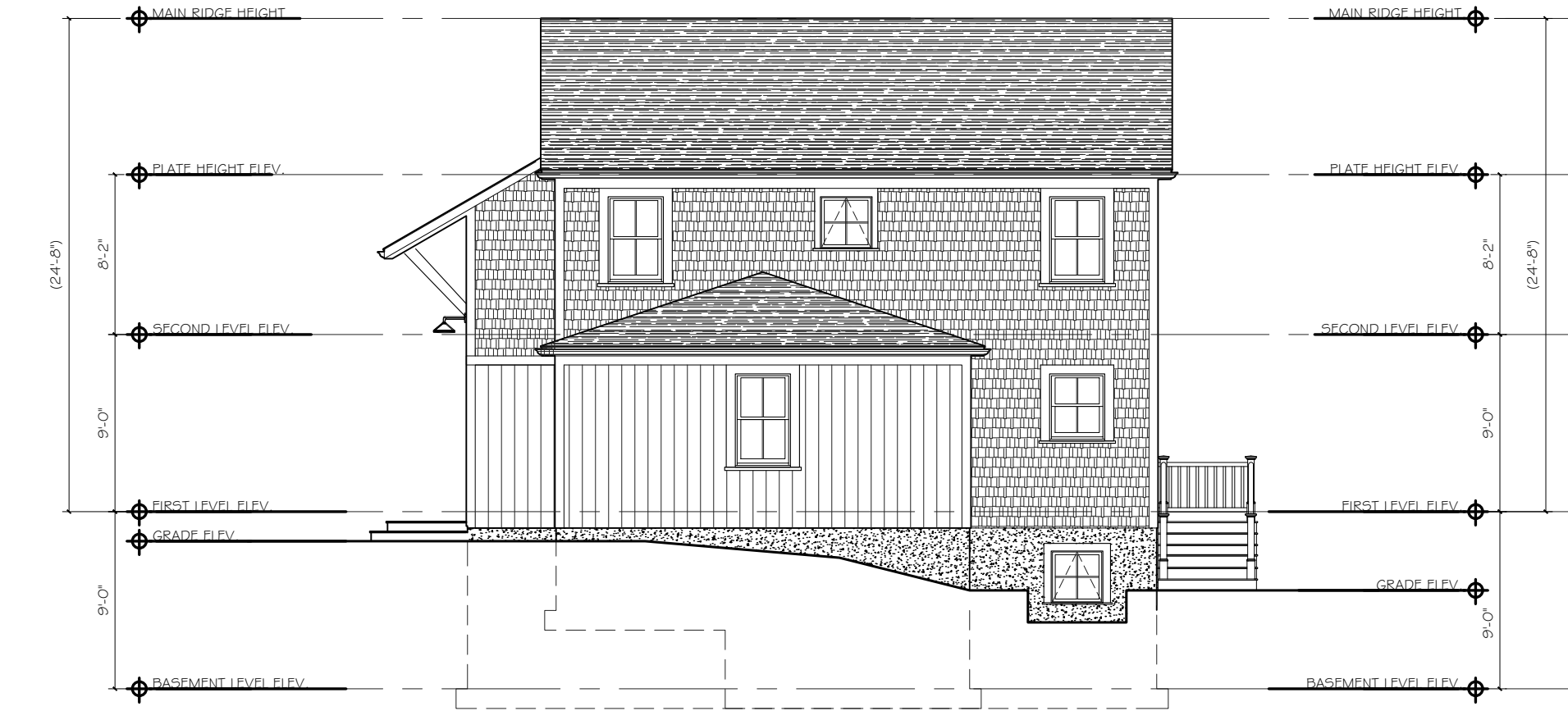
DATE:
09.04.20

FRONT AND BACK ELEVATIONS
CLOVERLEAF BUILDING 22-24 AND 23-25 (MIRRORED)
CLOVERLEAF TRURO RENTAL HOUSING

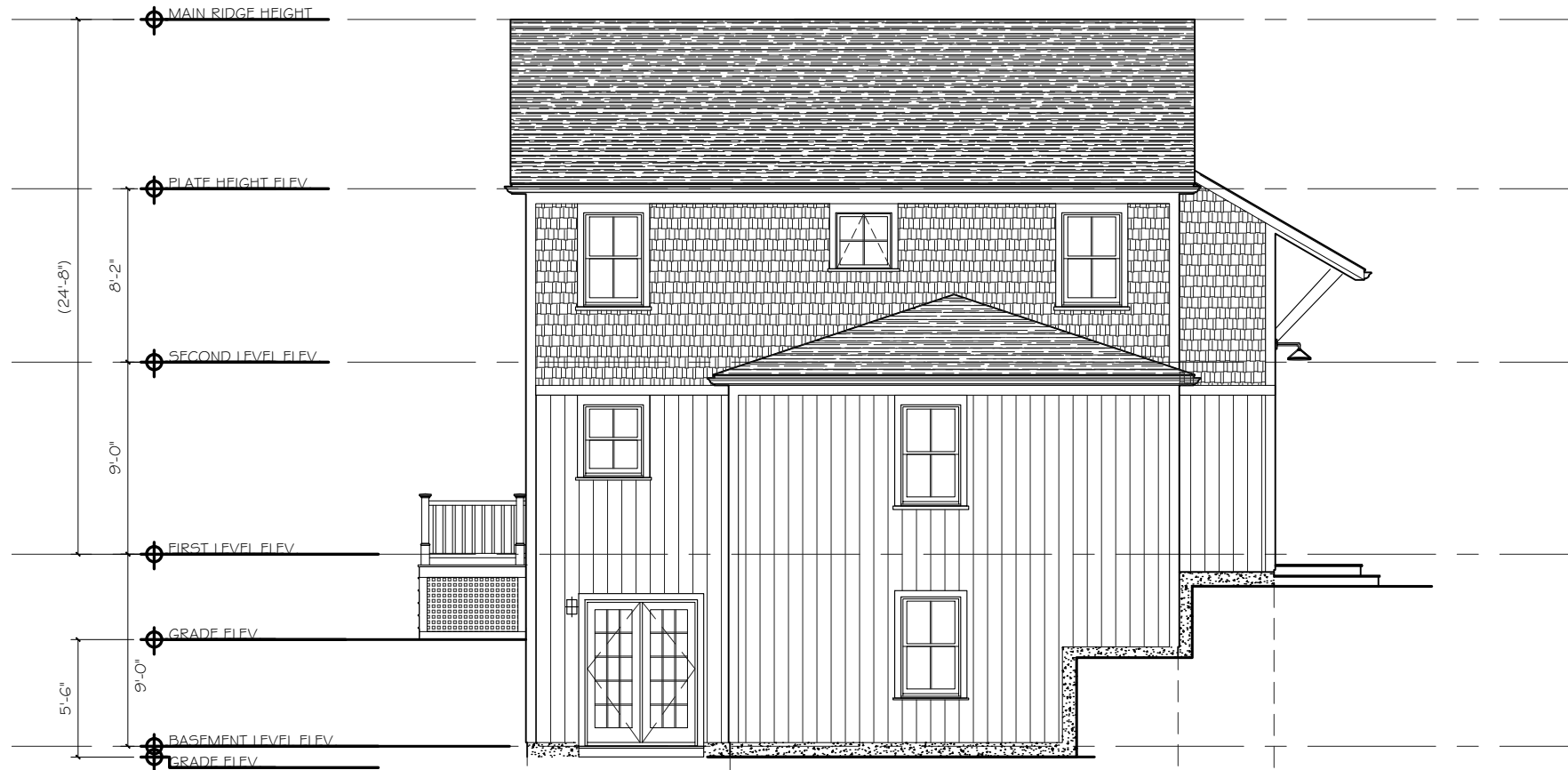
SPRING HILL DESIGN
ARCHITECTURE INTERIORS SPACE PLANNING
138 Central Street, Somerville, MA, 02145 ~ 617.6702.4622

1/8" = 1'-0"

A2.1



1 LEFT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



1 RIGHT SIDE ELEVATION
SCALE: 1/8" = 1'-0"

SIDE ELEVATIONS

CLOVERLEAF BUILDING 22-24 AND 23-25 (MIRRORED)
CLOVERLEAF TRURO RENTAL HOUSING

SPRING HILL DESIGN
ARCHITECTURE INTERIORS SPACE PLANNING
138 Central Street, Somerville, MA, 02145 ~ 617.6702.4622

DATE:
09.04.20

1/8" = 1'-0"

6 FT. TALL NATURAL CEDAR STOCKADE FENCE;
SECTIONS ANGLED TO AVOID EXISTING VEGETATION

BUILDINGS 1-3, 2-4, 6-8

BUILDING 5-7

BUILDINGS 9 - 20

BUILDING 21

BUILDINGS 22-25

BUILDING EXTERIOR LIGHTING SCHEDULE

- (R) Recessed LED lights in ceiling of overhangs at entry doors
- (W1) wall mount hooded dark sky light
- (W2) wall mount hooded dark sky light on gooseneck arm

(Reference "Exterior Palette / Lighting" drawing P1.2 for images)

LANDSCAPE PLANTING PLAN KEY

KEY BOTANICAL NAME COMMON NAME SIZE ROOT QTY.

A TREES (> 30FT AT MATURITY).....28

Quercus coccinea	Scarlet Oak	2.5-3" cal.	B&B
Quercus macrocarpa	bur/scrub oak	2.5-3" cal.	B&B
Quercus rubra	northern red oak	2.5-3" cal.	B&B
Quercus velutina	eastern black oak	2.5-3" cal.	B&B
Quercus alba	white oak	2.5-3" cal.	B&B
Nyssa sylvatica	black tupelo-sour gum	2.5-3" cal.	B&B

AE EVERGREEN TREES (> 30 FT AT MATURITY).....28

Ilex opaca	American holly	5'-6'	#15
Juniperus virginiana	eastern red cedar	5'-6'	#15

B TREES (>50FT AT MATURITY).....1

Fagus grandifolia	american beech	2.5-3" cal.	B&B
Fagus sylvatica	european beech	2.5-3" cal.	B&B

C TREES (20-30 FT AT MATURITY).....7

Amelanchier canadensis	shadblow/serviceberry	5'-6" clump	B&B
or A. lavis			

CE EVERGREEN TREES (20-30 FT AT MATURITY).....11

Juniperus virginiana	eastern red cedar	5'-6'	#5
'taylor'	small narrow		

D SHRUBS.....62

Viburnum dentatum	arrowwood viburnum	#3	CG
Morella pensylvanica	northern bayberry	#3	CG
Gaylussacia baccata	black huckleberry	#3	CG

E SHRUBS.....27

Clethra alnifolia	summer sweet compact	#3	CG
'16 candles'	16 candles	#3	CG
Vaccinium angustifolium	lowbush blueberry	#1	CG

F VINES.....78

Clematis virginiana	woodbine vine	4" pot	CG
Parthenocissus	virginia creeper vine	4" pot	CG
quinquifolia			

G GROUND COVER STOCKPILED/RECYCLED/RE-ESTABLISHED.....TBD

Arctostaphylos	bearberry, kinnikinnick	recycled
uva-ursi	poverty rush	recycled
Juncus tenuis		
Deschampsia flexuosa	crinkled hair grass	recycled
Deschampsia flexuosa		
Dennstaedtia punctilobula	eastern hay-scented fern	recycled
Pinus rigida	pitch pine	recycled
Vaccinium angustifolium	lowbush blueberry	recycled

PERENNIALS, GRASSES and GROUND COVER.....300

Dennstaedtia punctilobula	hay-scented fern	#1	CG
Dryopteris intermedia	evergreen wood fern	#1	CG
Deschampsia flexuosa	crinkled hair grass	flats plugs	
Deschampsia cespitosa	tufted hair grass	flats plugs	
Schizachyrium scoparium	little blue stem- 'prairie munchkin'	flats plugs	
Juncus tenuis	poverty rush	seed *	
Deschampsia flexuosa	Colonial Seed Company		
flexuosa	'Harmony' or 'Pilgrim' mix	seed *	

- Seeded grasses and some mulching at all other disturbed areas around the dwellings

(VS) vegetated swale; appropriate plant material



Existing trees to remain or to be relocated due to underground utilities



42 inch post light with hood "dark sky" compliant; less than 75 watt equivalent



Supplemental trees in undisturbed areas as needed based on site conditions



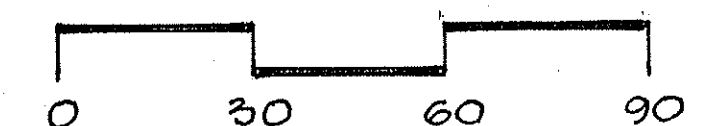
Seeded area - native grasses/snow storage potential



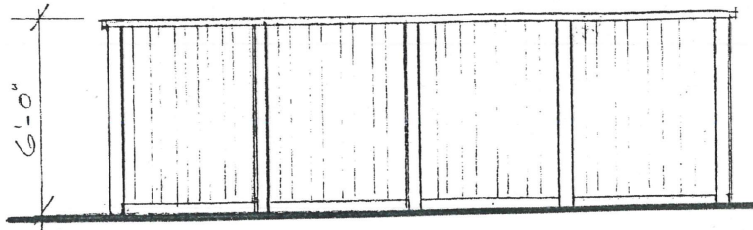
Underground propane; 250-500 gallon, tbd.

LANDSCAPE PLANTING, FENCING, TRASH/BIKE STORAGE, EXTERIOR LIGHTING PLAN

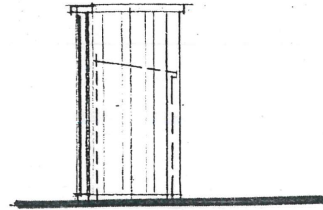
CLOVERLEAF TRURO RENTAL HOUSING
5 October 2020



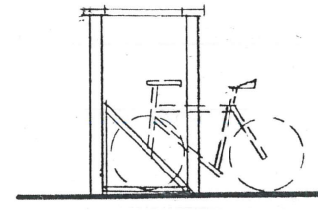
BUILDING FENCING AND TRASH/BIKE STORAGE



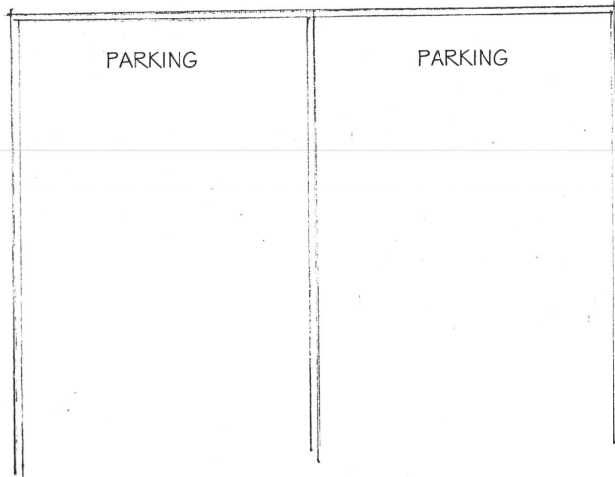
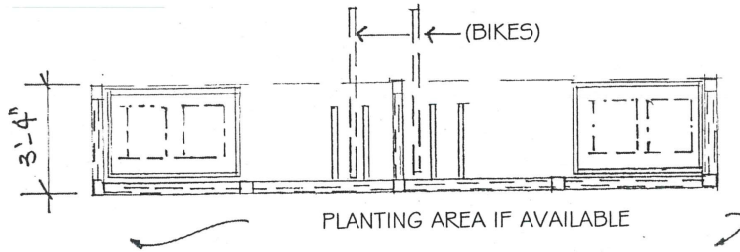
VIEW FROM PARKING (TYP)



SIDE VIEW



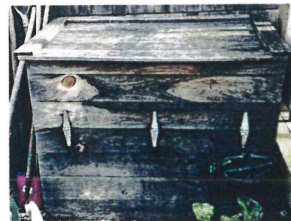
SECTION



BUILDING 21 : EXAMPLE TRASH ENCLOSURE



SHADOW BOX PRIVACY FENCING



EXAMPLE TRASH BIN ENCLOSURE

DATE:
06.19.20

FENCE/STORAGE IMAGES
CLOVERLEAF TRURO RENTAL HOUSING
TRURO, MASSACHUSETTS

SPRING HILL DESIGN
ARCHITECTURE INTERIORS SPACE PLANNING
21 Dorchester Street, Somerville, Massachusetts 02145 ~ 617.623.1833

NA

MATERIALS PALETTE



BUILDING EXTERIOR LIGHTING



EXTERIOR LIGHTING



EXTERIOR SITE LIGHTING
42" POST LIGHT WITH HOOD
LESS THAN 75 WATT EQUIV.



EXTERIOR LIGHTING

BUILDING INTERIOR PALETTE

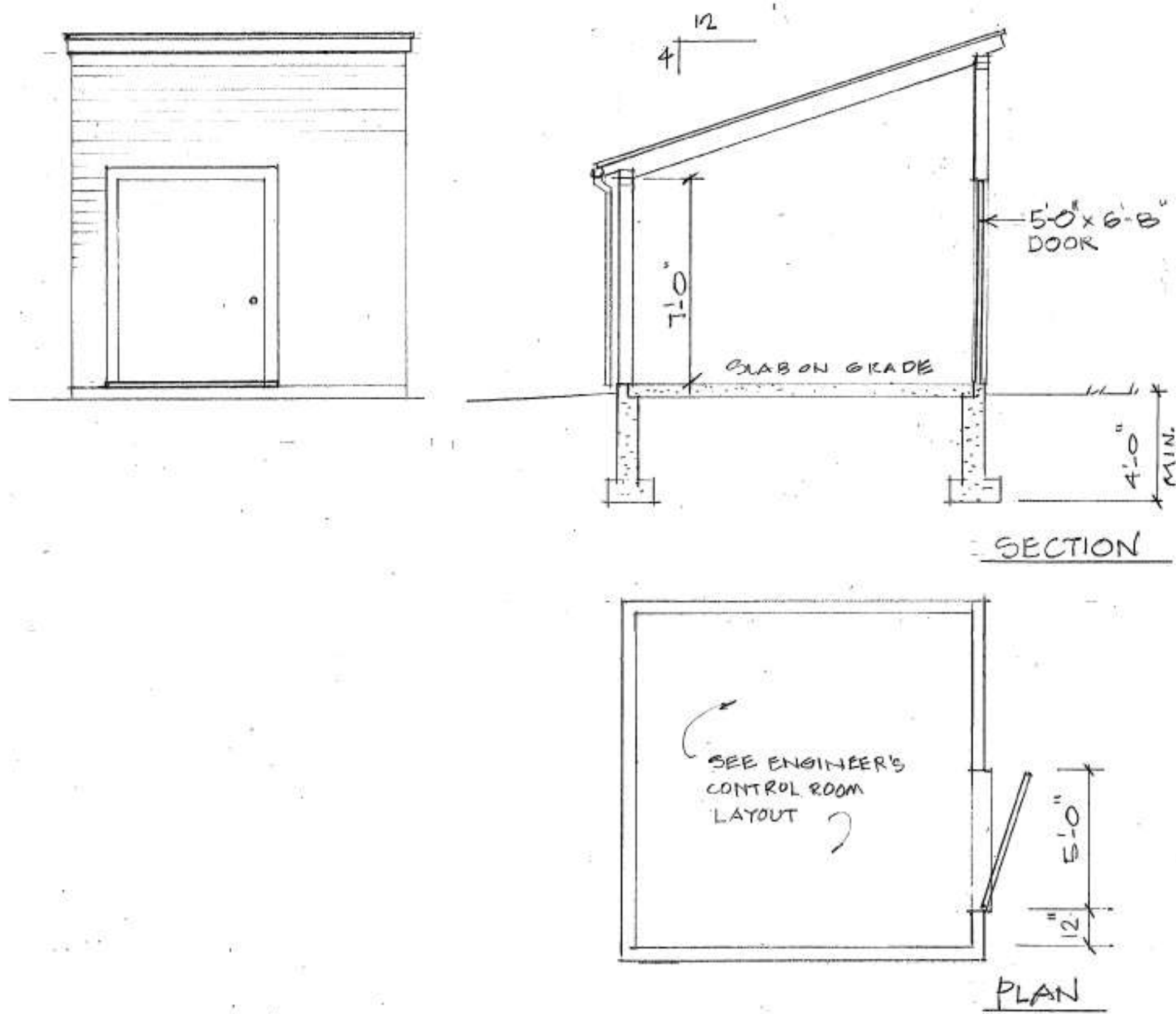


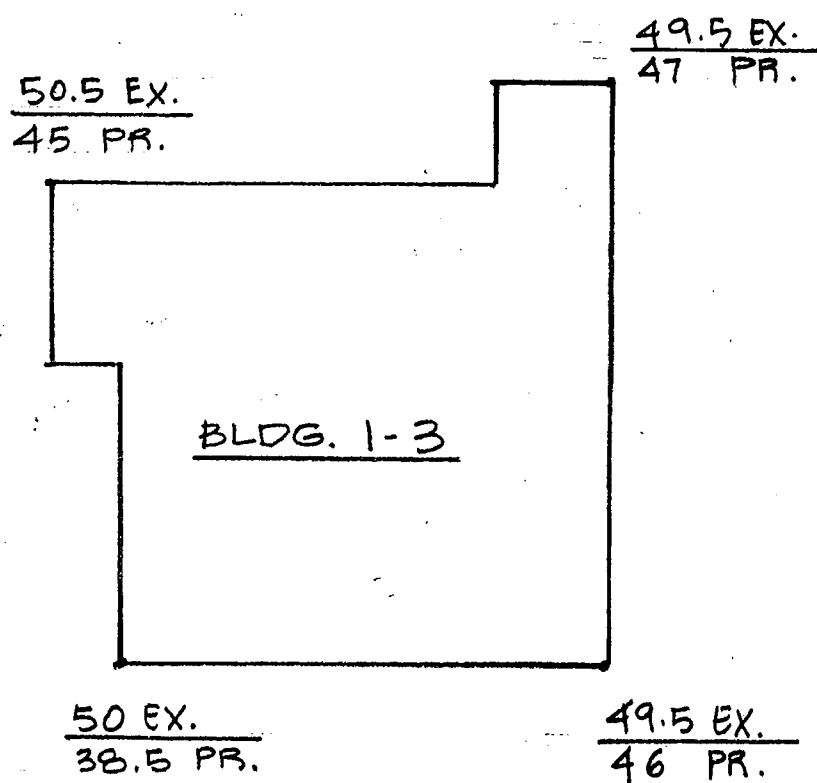
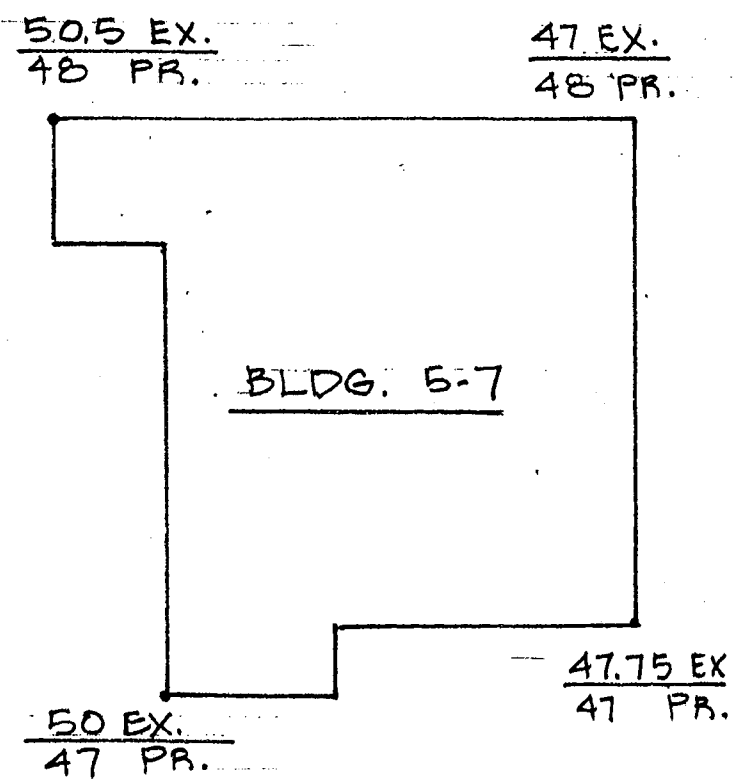
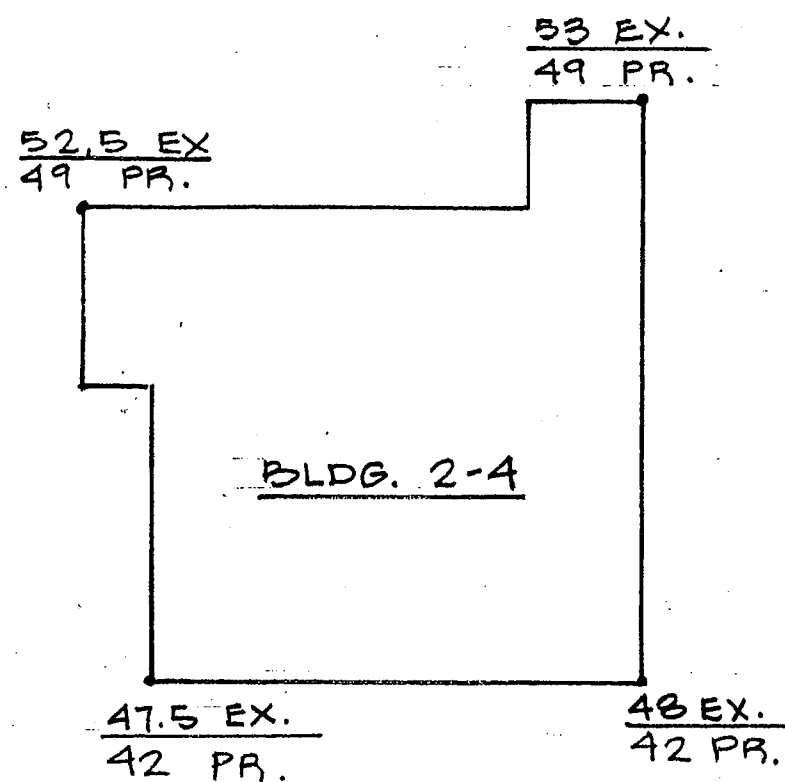
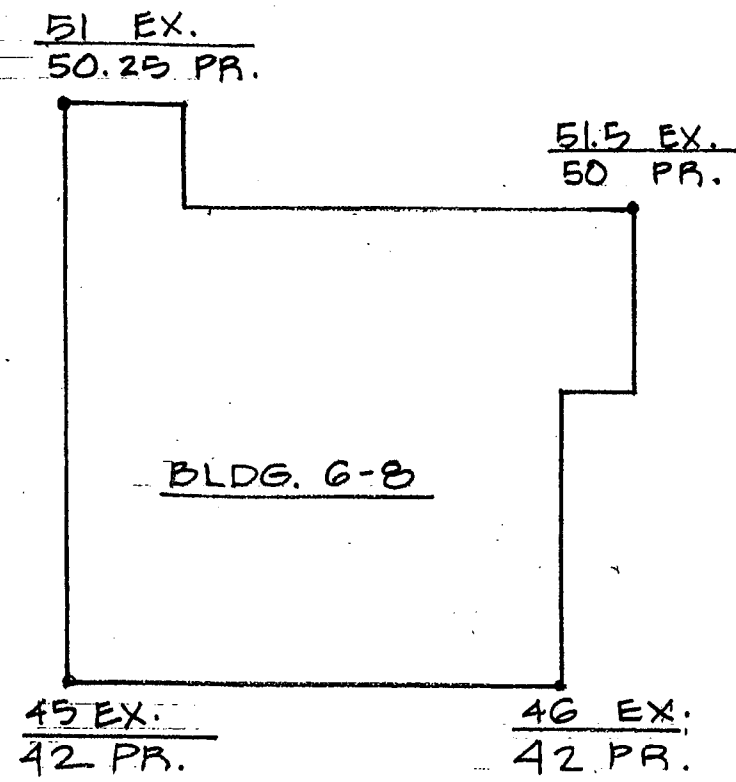
INTERIOR PALETTE
CLOVERLEAF TRURO RENTAL HOUSING
TRURO, MASSACHUSETTS

SPRING HILL DESIGN
ARCHITECTURE INTERIORS SPACE PLANNING
21 Dartmouth Street, Somerville, Massachusetts 02145 — 617.623.1833

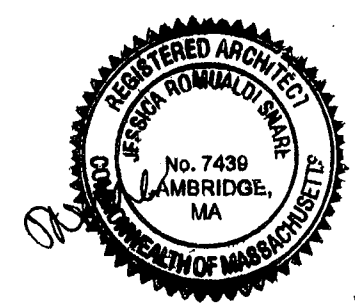
DATE:
06.19.20

NA





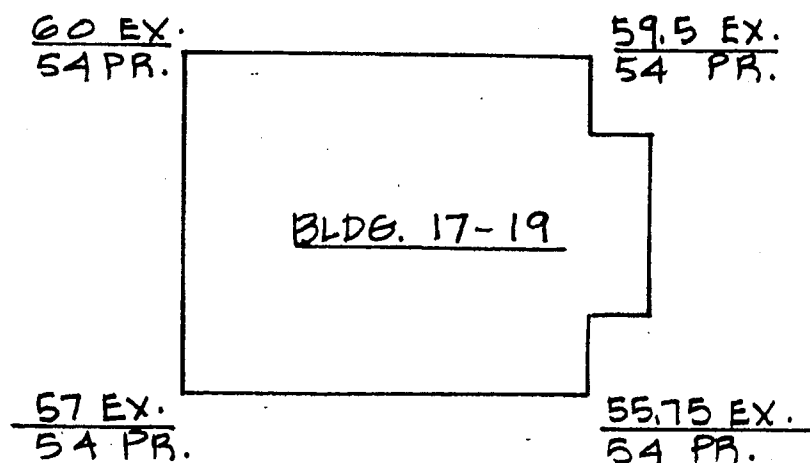
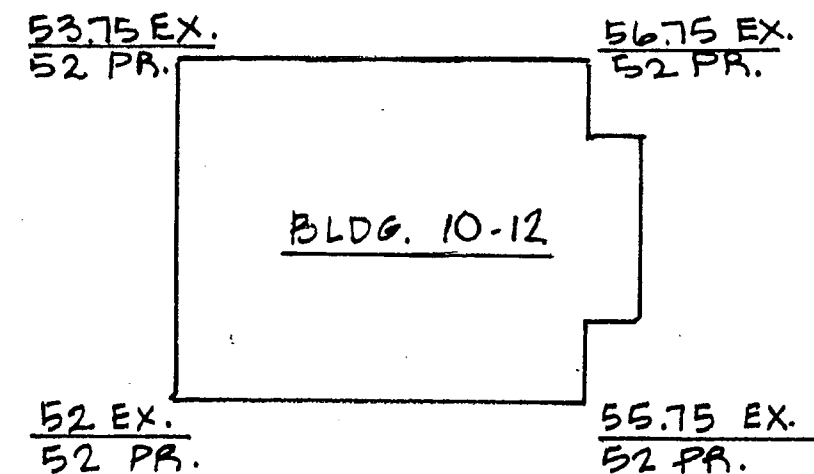
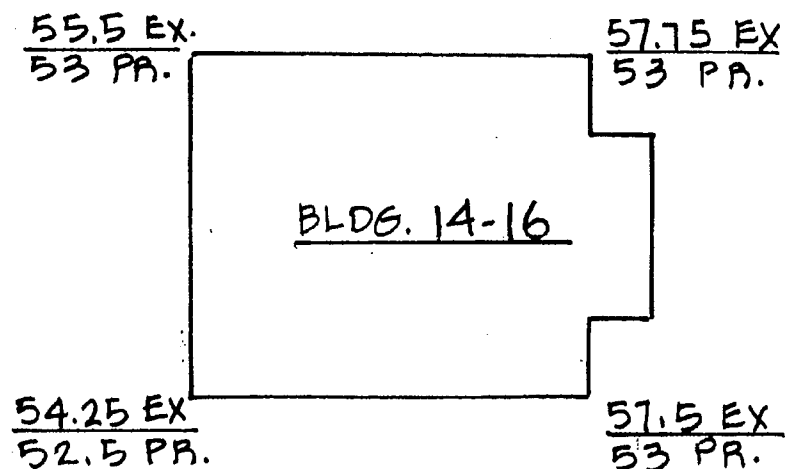
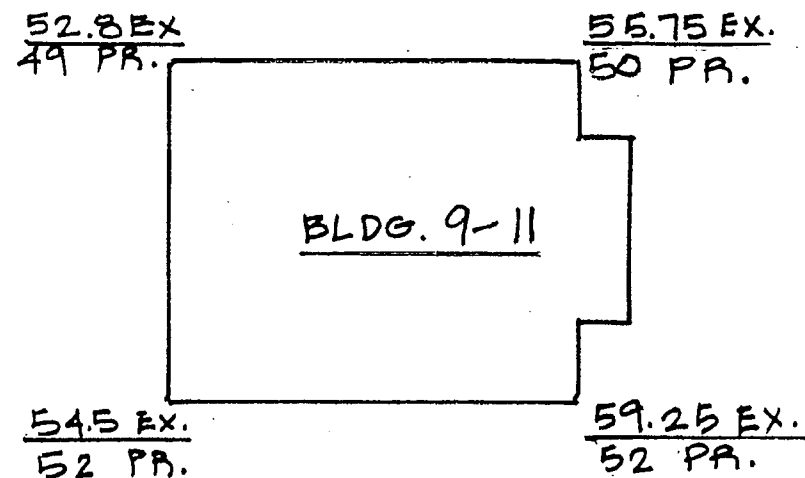
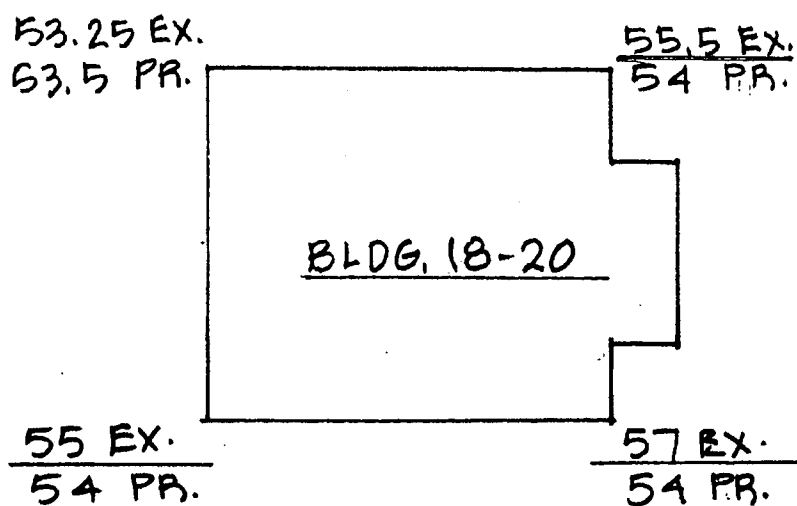
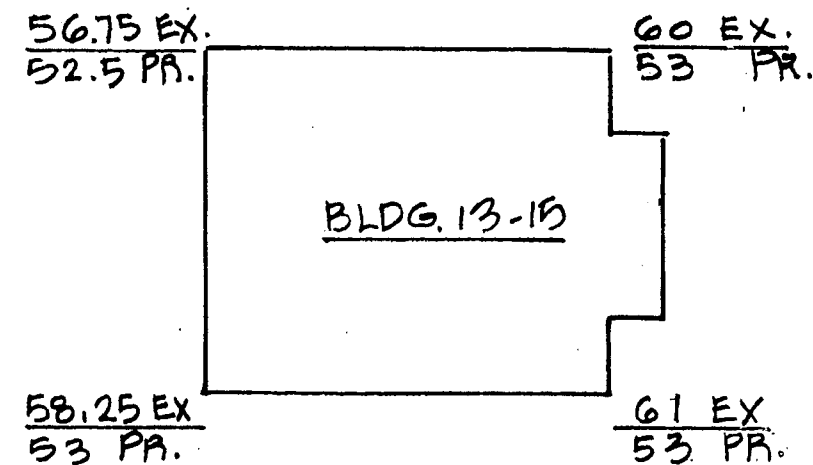
	6-8	2-4	5-7	1-3
AVERAGE EXISTING GRADE	48.3	50.25	48.8	49.8
AVERAGE PROPOSED GRADE	46	45.5	47.5	44.12
AVG. BUILDING HEIGHT ABOVE EXISTING GRADE	26.2	23.25	22.7	21.7
AVG. BUILDING HEIGHT ABOVE PROPOSED GRADE	28.5	28	24	27.38
ACTUAL ELEVATION ABOVE SEA LEVEL TO PROPOSED RIDGE LINE	74.5	73.5	71.5	71.5



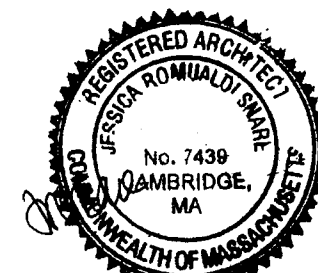
BUILDING HEIGHT CALCULATIONS
BUILDINGS 1-3, 2-4, 5-7, 6-8
CLOVERLEAF TRURO RENTAL HOUSING

SPRING HILL DESIGN
ARCHITECTURE INTERIORS SPACE PLANNING
21 Dartmouth Street, Somerville, Massachusetts 02145 - 617.623.1833

2.20.20
A-3



	9-11	10-12	13-15	14-16	17-19	18-20
AVERAGE EXISTING GRADE	55.5	54.5	59.0	56.25	58.0	55.18
AVERAGE PROPOSED GRADE	50.75	52.0	52.8	52.8	54.0	53.87
BLDG. HEIGHT ABOVE EXISTING GRADE	25'-3"	27'-3"	23'-9"	26'-6"	25'-9"	28'-6"
BLDG. HEIGHT ABOVE PROPOSED GRADE	29'-6"	29'-9"	29'-9"	29'-11"	29'-9"	29'-9"
ACTUAL ELEVATION ABOVE SEA LEVEL TO PROPOSED RIDGELINE	79.0	80.0	81.0	81.0	82.0	82.0



REVISED 8-31-20

BUILDING HEIGHT CALCULATIONS

SPRING HILL DESIGN

ARCHITECTURE INTERIORS SPACE PLANNING

21 Dartmouth Street Somerville, Massachusetts 02145 - 617.623.1833

2-20-20

A3

CLOVERLEAF 9-11, 10-12, 13-15, 14-16, 17-19, 18+20
CLOVERLEAF TRURO RENTAL HOUSING

AVERAGE EXISTING GRADE	44.8
AVERAGE PROPOSED GRADE	49.2
BLDG. HEIGHT ABOVE AVG. EXISTING GRADE	29.5
BLDG. HEIGHT ABOVE AVG. PROPOSED GRADE	25.3
ACTUAL ELEVATION ABOVE SEA LEVEL TO PROPOSED RIDGE LINE	74.5

49 EX.
53 PR.

51 EX.
53 PR.

MECH. ROOM HEADROOM
NOT INCLUDED IN THESE
CALCULATIONS.

BLDG. 21

43.5 EX.
47.5 PR.

45.5 EX.
47.5 PR.

40 EX.
47.3 PR.

40 EX.
47.3 PR.

REVISED 9-24-20

BUILDING HEIGHT CALCULATIONS

CLOVERLEAF BLDG. 21

CLOVERLEAF TRURO RENTAL HOUSING

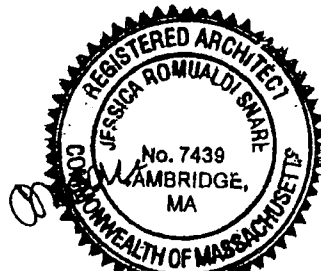
SPRING HILL DESIGN

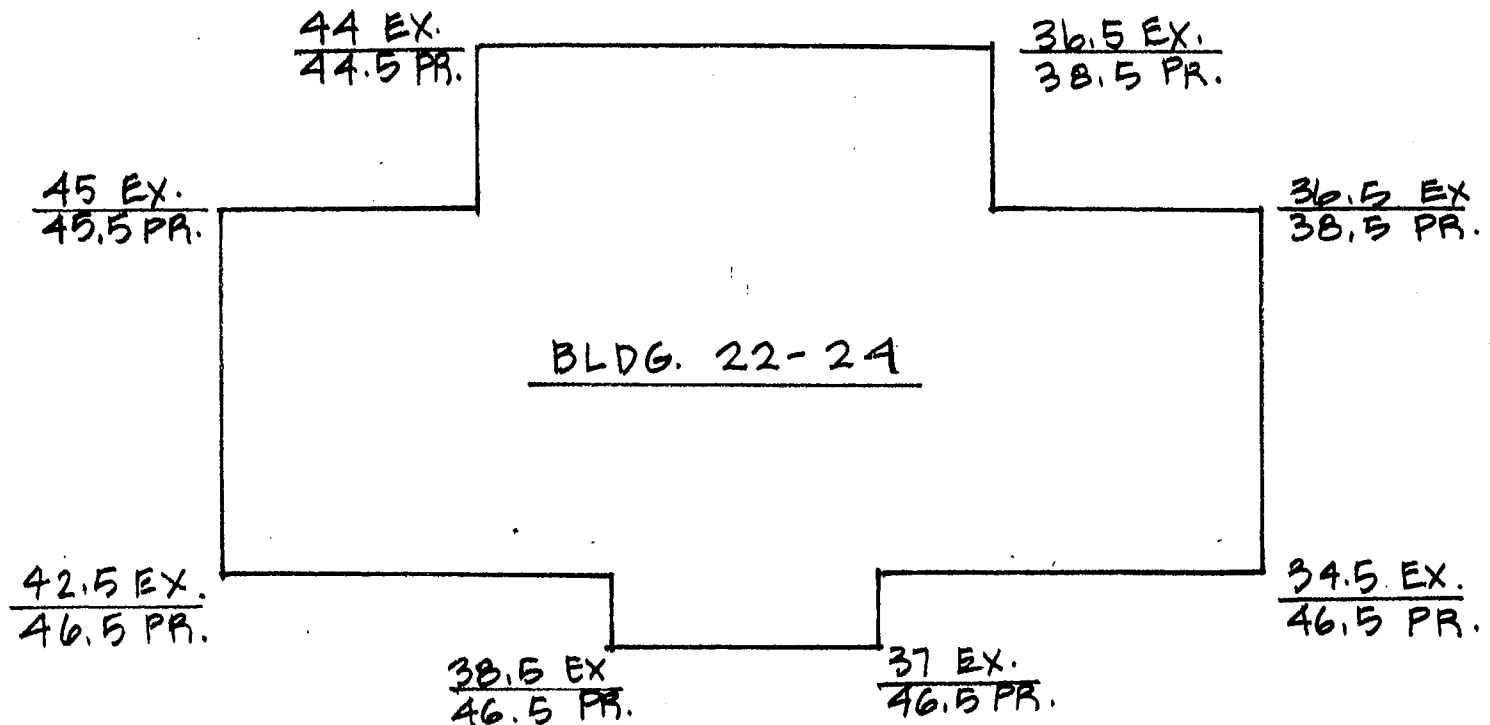
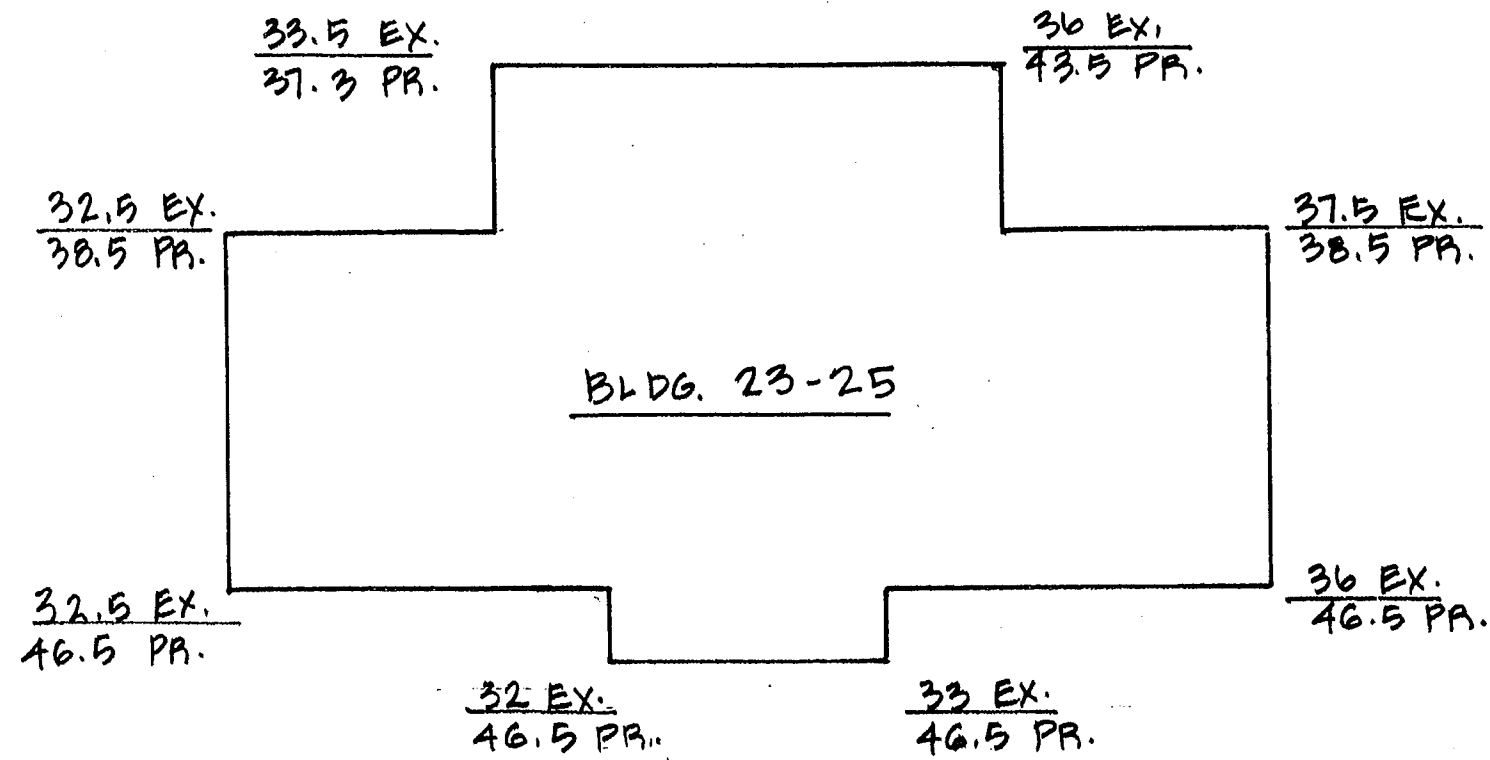
ARCHITECTURE INTERIORS SPACE PLANNING

21 Dartmouth Street Somerville, Massachusetts 02145 - 617.623.1833

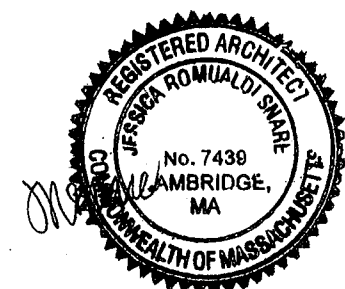
2-20-20

A3





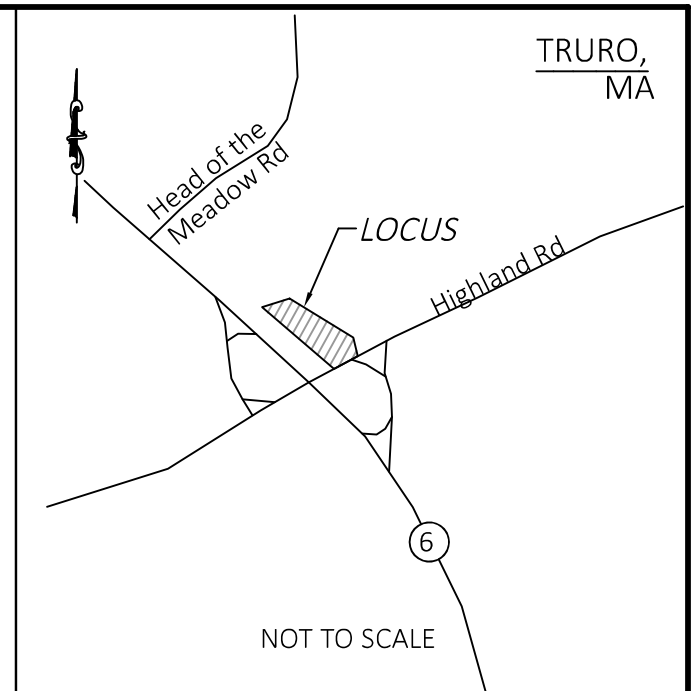
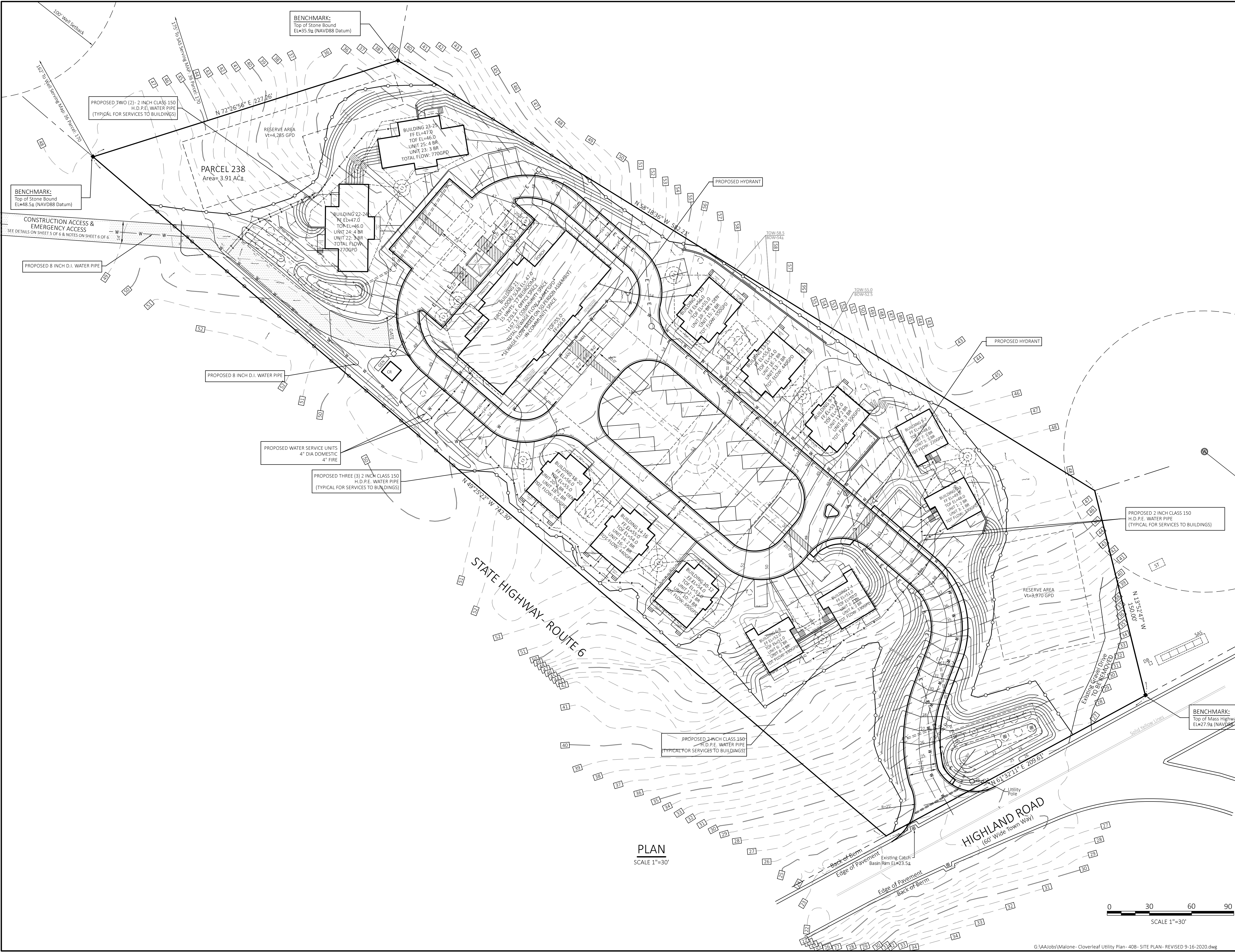
	23-25	22-24
AVERAGE EXISTING GRADE	34.75	39.7
AVERAGE PROPOSED GRADE	43.0	44.12
BLDG. HEIGHT ABOVE EXISTING GRADE (AVG.)	36'-11"	31'-11"
BLDG. HEIGHT ABOVE PROPOSED GRADE (AVG.)	28'-8"	29'-6"
ACTUAL ELEVATION ABOVE SEA LEVEL TO PROPOSED RIDGELINE	71.8	71.8



BUILDING HEIGHT CALCULATIONS
 CLOVERLEAF 22-24, 23-25
 CLOVERLEAF TRURO RENTAL HOUSING

SPRING HILL DESIGN
 ARCHITECTURE INTERIORS SPACE PLANNING
 21 Dartmouth Street Somerville, Massachusetts 02145 - 617.623.1833

2-20-20
 A3



PLAN BOOK 672	PAGE 34
ASSESSORS' MAP 36	PARCEL 238

LEGEND

— 32	EXISTING CONTOUR
— 32	PROPOSED CONTOUR
x12.34	EXISTING SPOT GRADE
24x5	PROPOSED SPOT GRADE
W	WATER SERVICE LINE
E	UNDERGROUND UTILITY SERVICE
G	GAS SERVICE LINE
ST	TEST HOLE / BORING LOCATION
DB	SEPTIC TANK
SAS	DISTRIBUTION BOX
Reserve	SOIL ABSORPTION SYSTEM
CB	RESERVED FOR FUTURE
W	UTILITY POLE
W	CATCH BASIN
W	FIRE HYDRANT
W	WELL
W	DRAINAGE MANHOLE
W	CONCRETE BOUND, FOUND
W	TOP OF BANK
W	LIMIT OF WORK
W	FENCE
W	UNDERGROUND PROPANE TANK
W	12' x 6' LEACHING DRYWELL (ROOF)
W	TRANSFORMER PAD- UTILITY CLUSTER
W	GENERATOR

SHEET 1 OF 6
PERMIT SET- NOT FOR CONSTRUCTION

REVISED 9-16-2020: ADJUSTED GRADING AND DRAINAGE SO AS TO ADDRESS PEER REVIEW COMMENTS.

REVISED 7-28-2020: ADJUSTED SEWAGE SYSTEM AND DRAINAGE FACILITIES AS REQUESTED THROUGH THE PEER REVIEW. MODIFIED SWALE AND DRAINAGE FACILITIES; MODIFIED NOTES ON SHEETS 3 TO 5, ACCORDINGLY.

REVISED 6-5-2020: UPDATED SEWAGE SYSTEM TREATMENT TO INCLUDE 10 PPM NITROGEN UNIT; ADJUSTED SEWER MANHOLE LAYOUT; ADJUSTED DRAINAGE TO INCLUDE SWALES AND ADDITIONAL CONTRIBUTORY AREAS; UPDATED NOTES AND DETAILS ACCORDINGLY.

REVISED 2-14-2020: UPDATED BUILDING LAYOUT, ADJUSTED ENTRANCE; UPDATED SEWAGE SYSTEM COLLECTION AND ADDED I.A. TREATMENT TECHNOLOGY; UPDATED WATER SERVICE LAYOUT AND DRAINAGE ACCORDINGLY.

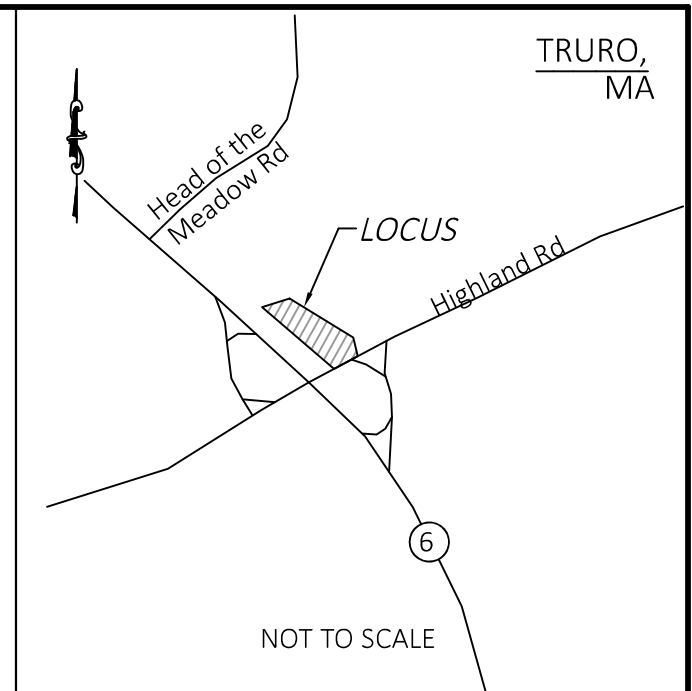
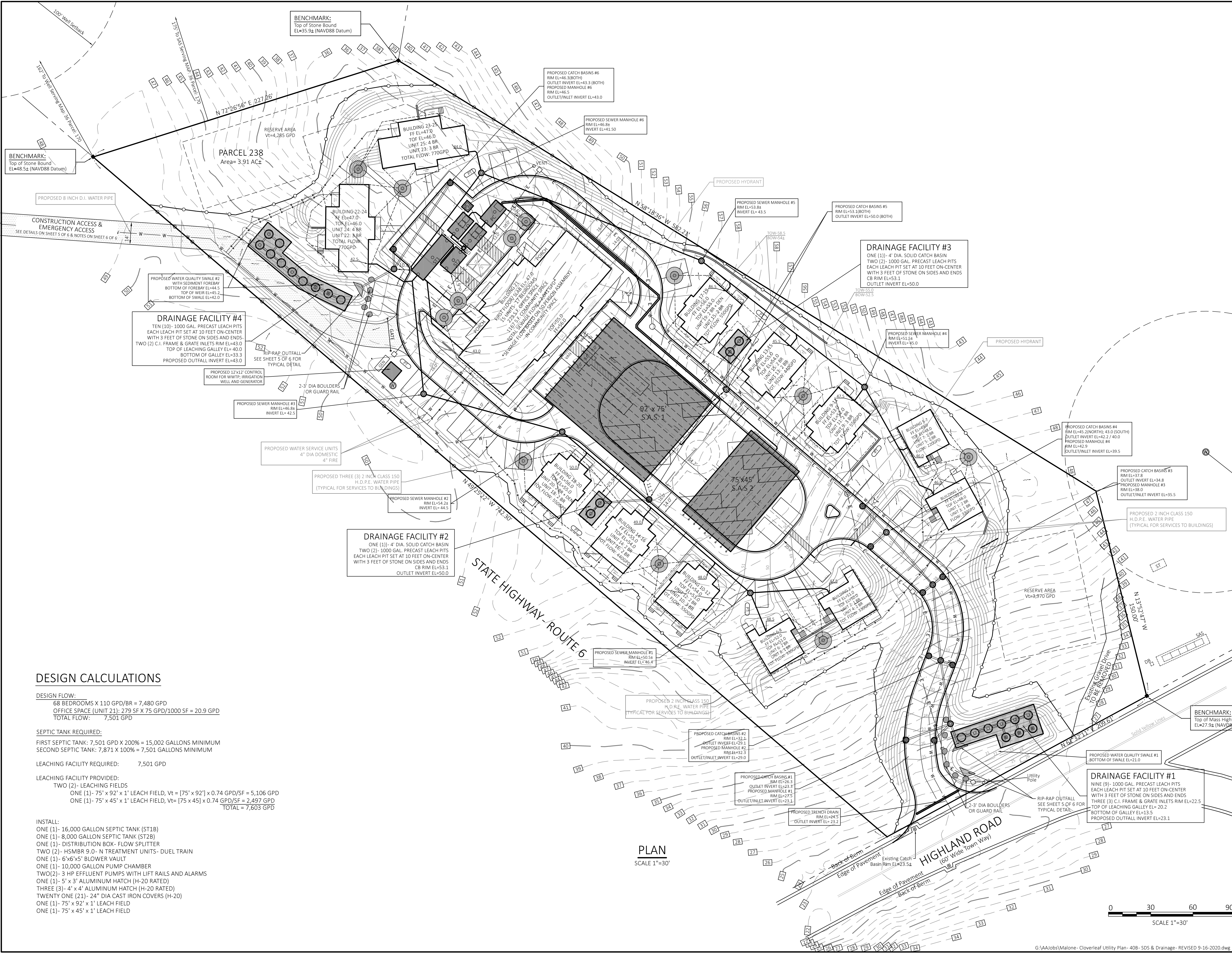
CLOVERLEAF TRURO RENTAL HOUSING
Community Housing Resource, Inc.; P.O. Box 1015, Provincetown, MA 02657

SITE PLAN
22 HIGHLAND ROAD, TRURO, MA

J.M. O'REILLY & ASSOCIATES, INC.
Professional Engineering & Land Surveying Services

1573 Main Street - Route 6A
P.O. Box 1773
Brewster, MA 02631 (508)896-6601 Fax (508)896-6602

DATE:	SCALE:	CHECK:	BY:	CHECK:	JOB NUMBER:
11-1-2019	As Noted	RRR	JMO	JMO	JMO-8446A



PLAN BOOK 672
ASSESSORS' MAP 36

PAGE 34
PARCEL 238

- ### LEGEND
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - EXISTING SPOT GRADE
 - PROPOSED SPOT GRADE
 - WATER SERVICE LINE
 - UNDERGROUND UTILITY SERVICE
 - GAS SERVICE LINE
 - TEST HOLE / BORING LOCATION
 - SEPTIC TANK
 - DISTRIBUTION BOX
 - SOIL ABSORPTION SYSTEM
 - RESERVED FOR FUTURE
 - UTILITY POLE
 - CATCH BASIN
 - FIRE HYDRANT
 - WELL
 - DRAINAGE MANHOLE
 - STORMWATER FLOW ARROW
 - CONCRETE BOUND, FOUND
 - TOP OF BANK
 - LIMIT OF WORK
 - FENCE
 - UNDERGROUND PROPANE TANK
 - 12" x 6" LEACHING DRYWELL (ROOF)
 - TRANSFORMER PAD- UTILITY CLUSTER
 - GENERATOR

DESIGN CALCULATIONS

DESIGN FLOW:
68 BEDROOMS X 110 GPD/BR = 7,480 GPD
OFFICE SPACE (UNIT 21): 279 SF X 75 GPD/1000 SF = 20.9 GPD
TOTAL FLOW: 7,501 GPD

SEPTIC TANK REQUIRED:
FIRST SEPTIC TANK: 7,501 GPD X 200% = 15,002 GALLONS MINIMUM
SECOND SEPTIC TANK: 7,871 X 100% = 7,501 GALLONS MINIMUM

LEACHING FACILITY REQUIRED: 7,501 GPD

LEACHING FACILITY PROVIDED:
TWO (2)- LEACHING FIELDS
ONE (1)- 75' x 92' x 1' LEACH FIELD, Vt = [75' x 92'] x 0.74 GPD/SF = 5,106 GPD
ONE (1)- 75' x 45' x 1' LEACH FIELD, Vt = [75' x 45'] x 0.74 GPD/SF = 2,497 GPD
TOTAL = 7,603 GPD

INSTALL:
ONE (1)- 16,000 GALLON SEPTIC TANK (ST1B)
ONE (1)- 8,000 GALLON SEPTIC TANK (ST2B)
ONE (1)- DISTRIBUTION BOX - FLOW SPLITTER
TWO (2)- HSMBR 9.0- N TREATMENT UNITS- DUEL TRAIN
ONE (1)- 6'x6'x5' BLOWER VAULT
ONE (1)- 10,000 GALLON PUMP CHAMBER
TWO (2)- 3 HP EFFLUENT PUMPS WITH LIFT RAILS AND ALARMS
ONE (1)- 5' x 3' ALUMINUM HATCH (H-20 RATED)
THREE (3)- 4' x 4' ALUMINUM HATCH (H-20 RATED)
TWENTY ONE (21)- 24" DIA CAST IRON COVERS (H-20)
ONE (1)- 75' x 92' x 1' LEACH FIELD
ONE (1)- 75' x 45' x 1' LEACH FIELD

SHEET 2 OF 6
PERMIT SET- NOT FOR CONSTRUCTION

REVISED 9-16-2020: ADJUSTED GRADING AND DRAINAGE SO AS TO ADDRESS PEER REVIEW COMMENTS.
REVISED 7-28-2020: ADJUSTED SEWAGE SYSTEM AND DRAINAGE FACILITIES AS REQUESTED THROUGH THE PEER REVIEW. MODIFIED SWALE AND DRAINAGE FACILITIES; MODIFIED NOTES ON SHEETS 3 TO 5, ACCORDINGLY.
REVISED 6-5-2020: UPDATED SEWAGE SYSTEM TREATMENT TO INCLUDE 10 PPM NITROGEN LIMIT; ADJUSTED SEWER MANHOLE LAYOUT; ADJUSTED DRAINAGE TO INCLUDE SWALES AND ADDITIONAL CONTRIBUTORY AREAS; UPDATED NOTES AND DETAILS ACCORDINGLY.
REVISED 2-14-2020: UPDATED BUILDING LAYOUT, ADJUSTED ENTRANCE; UPDATED SEWAGE SYSTEM COLLECTION AND ADDED I.A. TREATMENT TECHNOLOGY; UPDATED WATER SERVICE LAYOUT AND DRAINAGE ACCORDINGLY.

CLOVERLEAF TRURO RENTAL HOUSING
Community Housing Resource, Inc.; P.O. Box 1015, Provincetown, MA 02657

SEWAGE-DRAINAGE SITE PLAN- 40B PERMIT SET
22 HIGHLAND ROAD, TRURO, MA

J.M. O'REILLY & ASSOCIATES, INC.
Professional Engineering & Land Surveying Services

1573 Main Street - Route 6A
P.O. Box 1773
Brewster, MA 02631 (508)896-6601 Office (508)896-6602 Fax
DATE: 11-1-2019 SCALE: As Noted BY: RFR CHECK: JMO JOB NUMBER: JMO-8446A

A.) NEITHER DRIVEWAYS NOR PARKING AREAS ARE ALLOWED OVER SEPTIC SYSTEM UNLESS H-20 COMPONENTS ARE USED.

B.) THE DESIGNER WILL NOT BE RESPONSIBLE FOR THE SYSTEM AS DESIGNED UNLESS CONSTRUCTED AS SHOWN. ANY CHANGES SHALL BE APPROVED IN WRITING.

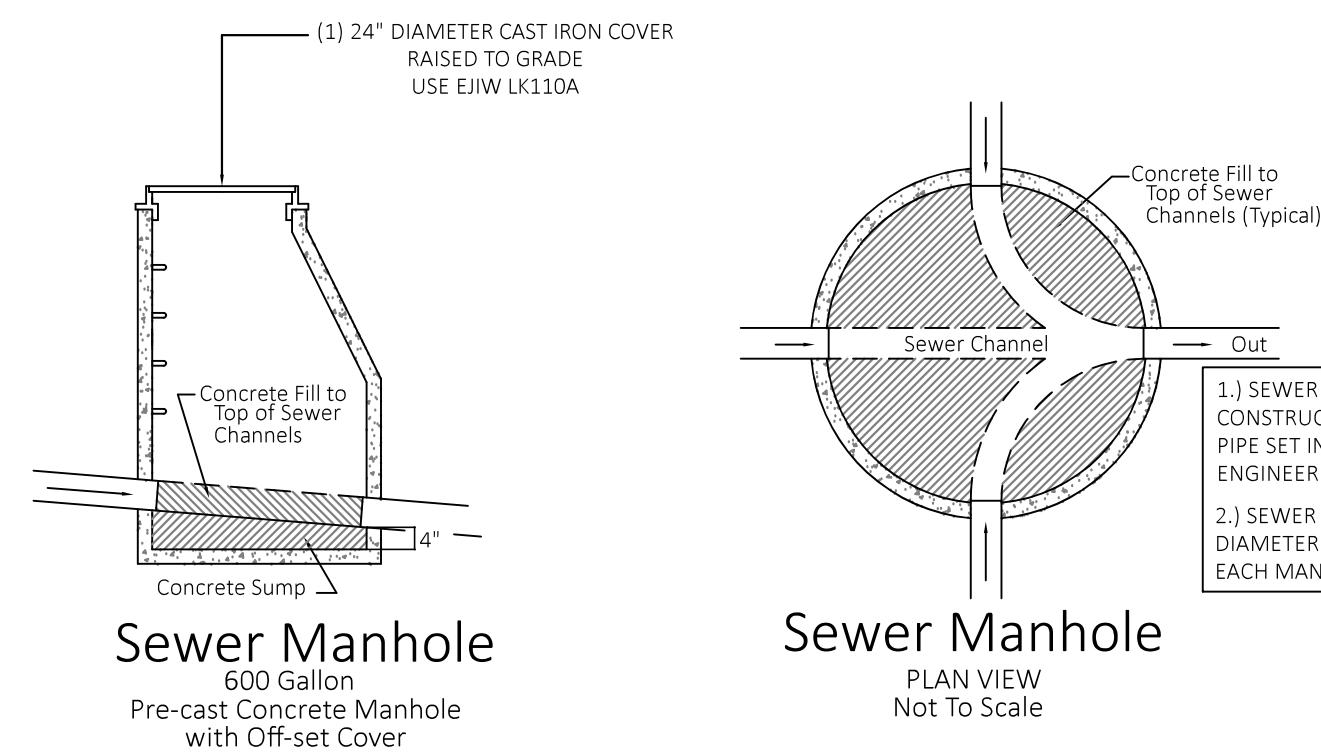
C.) CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCEMENT OF WORK.

- 1) ALL CONSTRUCTION SHALL CONFORM TO THE STATE ENVIRONMENTAL CODE, TITLE 5, AND THE REQUIREMENTS OF THE LOCAL BOARD OF HEALTH.
- 2) SEPTIC TANK(S), GRAESE TRAP(S), DOSING CHAMBER(S) AND DISTRIBUTION BOX(ES) SHALL BE SET ON A LEVEL, STABLE BASE(S) WHICH HAS BEEN MECHANICALLY COMPACTED TO A MINIMUM OF 15% BELOW THE FINISH GRADE.
- 3) SEPTIC TANK(S) SHALL MEET ASTM STANDARD 11217-99 AND SHALL HAVE AT LEAST THREE 20" DIAMETER MANHOLES. THE MINIMUM DEPTH FROM THE BOTTOM OF THE SEPTIC TANK TO THE FLOW LINE SHALL BE 48".
- 4) SCHEDULE 40 PVC INLET AND OUTLET TEES SHALL EXTEND A MINIMUM OF 6" ABOVE THE FLOW LINE OF THE SEPTIC TANK AND SHALL BE INSTALLED ON THE EXTERIOR OF THE CONSTRUCTION.
- 5) RAISE COVERS OF THE SEPTIC TANK AND DISTRIBUTION BOX WITH PRECAST CONCRETE WATER TIGHT RISERS OVER INLET AND OUTLET TEES TO WITHIN 6" OF FINISH GRADE, OR AS APPROVED BY THE LOCAL BOARD OF HEALTH AGENT.
- 6) ALL SEWER PIPING SHALL CONSIST OF 6" SDR-35 OR EQUIVALENT. PIPES SHALL BE LAID ON A MINIMUM CONTINUOUS GRADE OF NOT LESS THAN 1% OR AS SPECIFIED.
- 7) DISTRIBUTION LINES FOR SOIL ABSORPTION SYSTEM (AS REQUIRED) SHALL BE 1 1/2" DIA. SCHEDULE 40 PVC. SEE DETAILS FOR ADDITIONAL INFORMATION.
- 8) OUTLET TEES FROM DISTRIBUTION BOX SHALL REMAIN LEVEL FOR AT LEAST 10' TO REPAIR PITCHING OF DISTRIBUTION SYSTEM. WATER TIGHT FOR DISTRIBUTION BOX TO ASSURE EVEN DISTRIBUTION.

DEPTH FROM SURFACE (INCHES)	SOIL HORIZON	SOIL TEXTURE (USDA)	SOIL COLOR (MUNSELL)	SOIL MOTTLING	OTHER
0-6	A	FINE LOAMY SAND	10YR/9/1		
6-24	C1	COARSE SAND	10YR/8/8	NONE	
24-186	C2	COARSE SAND	10YR/6/4		
					NO WATER ENCOUNTERED

DATE OF TESTING: 10-16-2019
PERCOLATION RATE: LESS THAN 52 MIN/INCH IN C1 LAYERS (ASSUMED)
WITNESSED BY: ROBERT REEDY, EIT, J.M. O'REILLY & ASSOCIATES, INC.
NO GROUNDWATER WAS ENCOUNTERED
USE A LOADING RATE OF 0.74 GPD/SF FOR SIZING OF SOIL ABSORPTION SYSTEM.

NOT TO SCALE

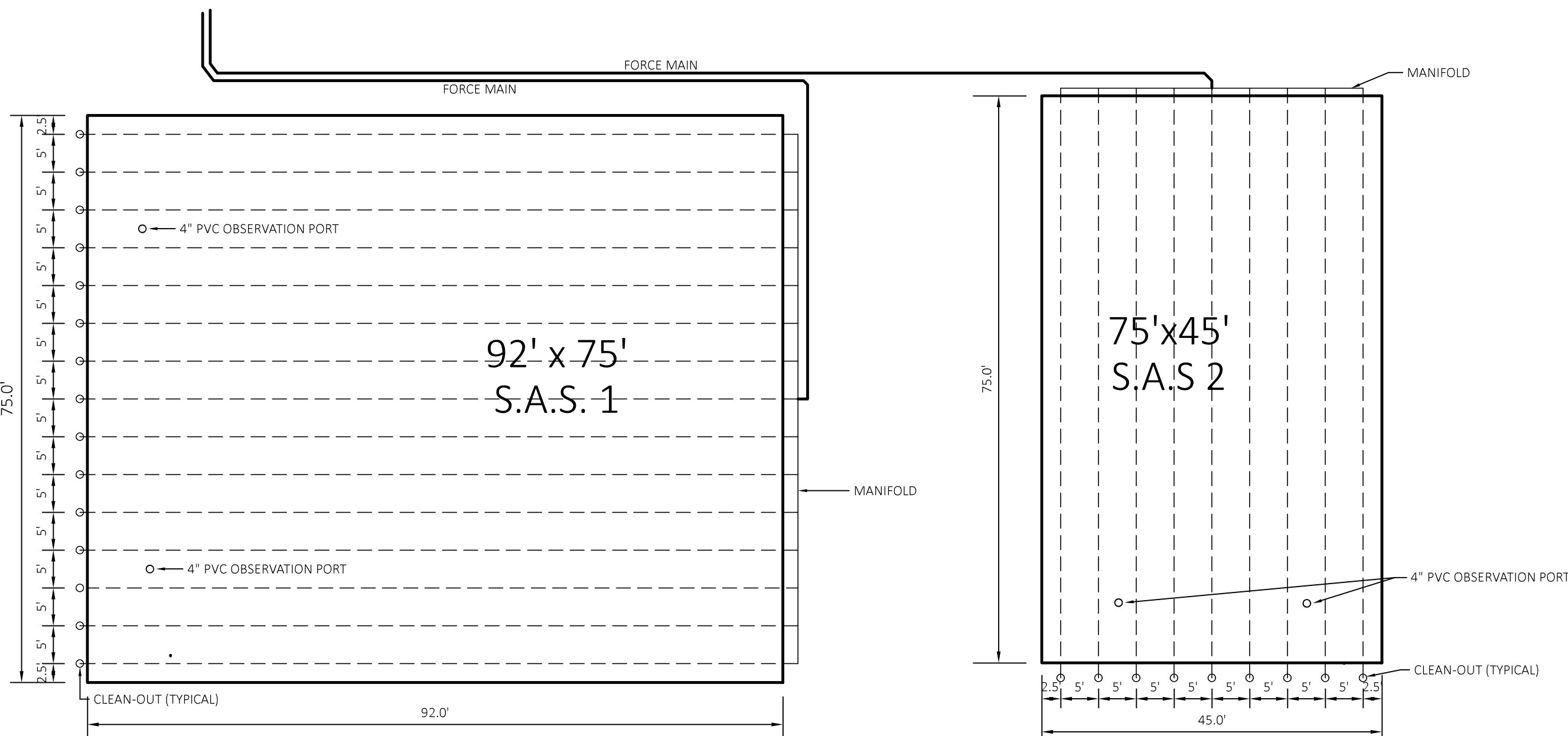


1. BOTH PUMPS MUST BE CAPABLE OF PUMPING AT LEAST 90 GPM AGAINST A TOTAL DYNAMIC HEAD OF 30'± (USE 2" MYERS EFFICIENCY PUMP- 2 HP OR ENGINEER APPROVED EQUIVALENT);
2. BOTH PUMPS SHALL BE OPERATED ON A TIMER CYCLE.
SAS #1 PUMP: SHALL RUN FOR MAXIMUM OF 5 MINUTES EVERY 30 MINUTES:
TOTAL DOSE PER HOUR = 900 GALLONS;
SAS #2 PUMP: PUMP SHALL RUN FOR A MAXIMUM OF 3 MINUTES EVERY 30 MINUTES:
TOTAL DOSE PER HOUR = 540 GALLONS

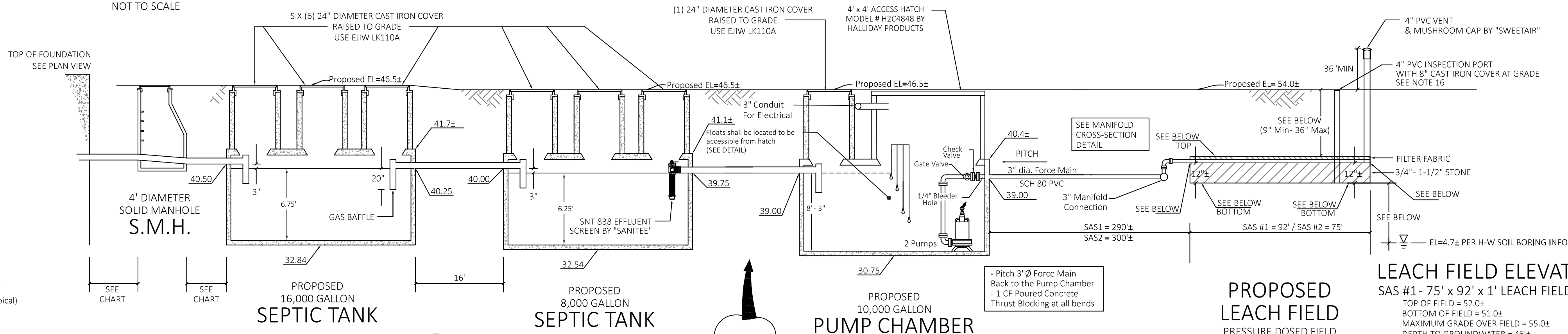
NOTE:

ONCE PUMPS INSTALLED WITHIN CHAMBER, TIMING AND DOSAGE SHALL BE ADJUSTED TO REFLECT ACTUAL PUMP DISCHARGE AND FLOW RATES.

- 1) ALL WIRING AND CONNECTIONS SHALL BE IN COMPLIANCE WITH THE MA STATE ELECTRICAL CODE AS WELL AS TO THE MANUFACTURER'S SPECIFICATIONS. ALL WORK SHALL BE COMPLETED BY A LICENSED ELECTRICIAN.
- 2) THE ALARM SHALL CONSIST OF A RED WARNING LIGHT, AN AUDIBLE ALARM AND A REMOTE DIALER SO AS TO NOTIFY THE WWTP OPERATOR OF THE ALARM EVENT. LIGHT AND ALARM SHALL BE MOUNTED IN THE CONTROL BUILDING.
- 3) ALL CORDS FOR PUMPS AND FLOATS SHALL BE CONTINUOUS FROM THE TREATMENT WORKS TO THE JUNCTION DISCONNECT BOX.
- 4) JUNCTION DISCONNECT BOX SHALL BE LOCATED ADJACENT TO THE CONTROL BUILDING.



NOT TO SCALE



SAS #1- 75' x 92' x 1' LEACH FIELD

SAS #2 - 75' x 45' x 1' LEACH FIELD

TOP OF FIELD = 52.0±
 BOTTOM OF FIELD = 51.0±
 MAXIMUM GRADE OVER FIELD = 55.0±
 DEPTH TO GROUNDWATER = 46±

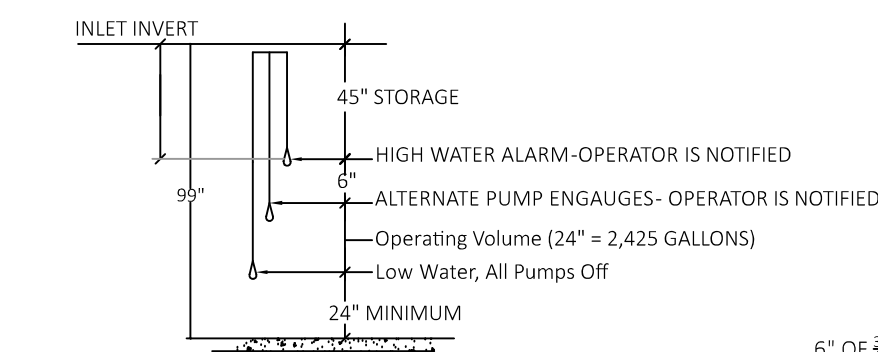
SEWER MANHOLE ELEVATION SCHEDULE : SMH #1-3			
COMPONENT	RIM EL	PIPE INVERT EL	6" SEWER PITCH (%), LENGTH FROM PREV
SMH #1	50.5±	46.4±	
SMH #2	54.2±	44.5±	1.1% PITCH , 172' OF 6" SEWER LINE
SMH #3	46.8±	42.5±	2% PITCH, 98' OF 6" SEWER
ST #1 INLET	46.5±	40.5±	2.4% PITCH, 84' OF 6" SEWER

SEWER MANHOLE ELEVATION SCHEDULE : SMH #4-6			
COMPONENT	RIM EL	PIPE INVERT EL	6" SEWER PITCH (%), LENGTH FROM PREVIOUS
SMH #4	51.5±	45.0±	
SMH #5	53.8±	43.5±	1.1% PITCH, 142' OF 6" SEWER LINE
SMH #6	46.8±	41.5±	1.2% PITCH, 164' OF 6" SEWER
ST #1 INLET	46.5±	40.5±	1.2% PITCH, 83' OF 6" SEWER

SEWER NOTES

- 1.) THE SEWER PIPER SHALL BE 6" DIA. SDR35 PIPE OR APPROVED EQUAL.
- 2.) EACH WASTE LINE UPON EXITING THE BUILDINGS, SHALL BE CONNECTED TO A 4" CLEAN-OUT, TO GRADE, FOR FUTURE MAINTENANCE.
- 3.) SEWER LINE: AT ANY BEND, GREATER THAN 22.5" SHALL HAVE A SEWER CLEANOUT TO GRADE FOR FUTURE MAINTNANCE.

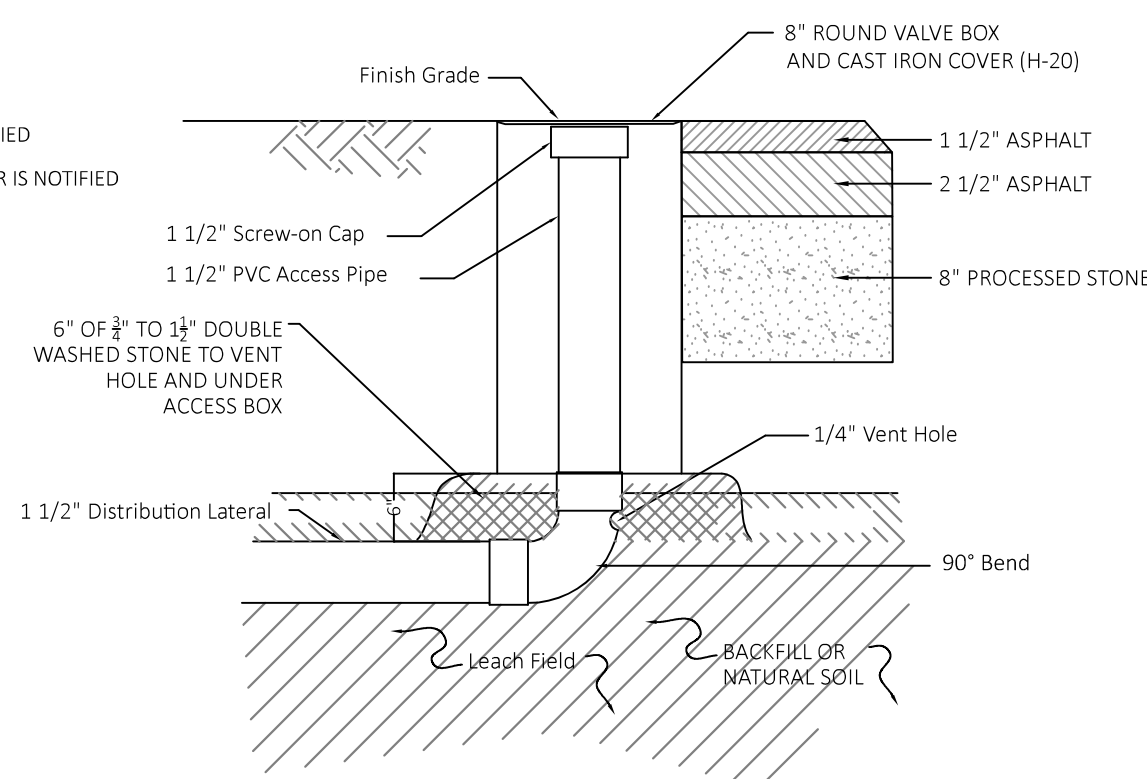
NOT TO SCALE



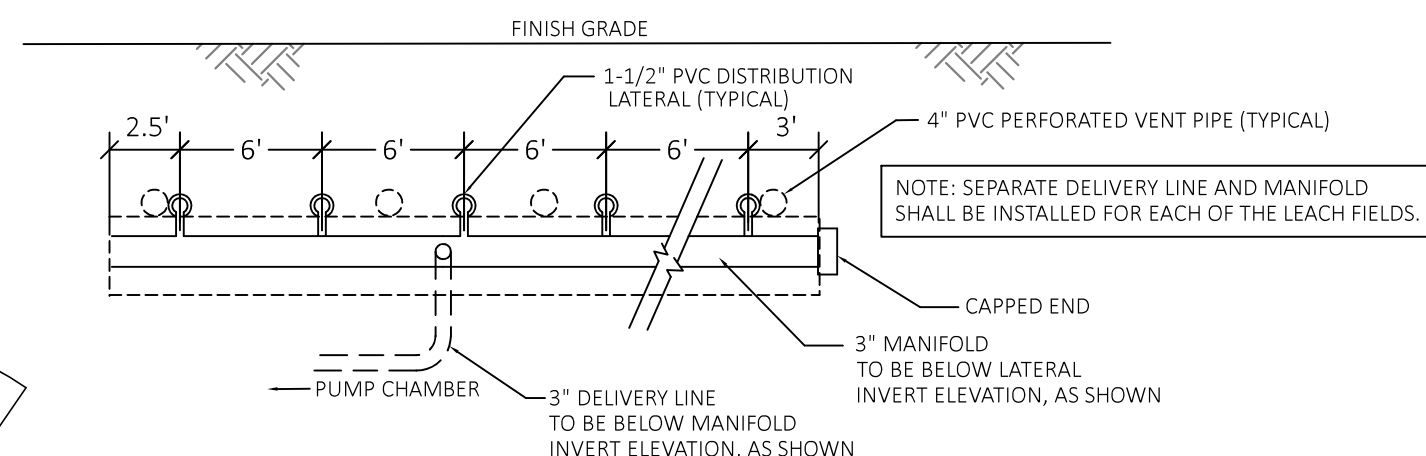
*FLOAT INSTALLATION NOTES

- 1.) FLOATS SHALL BE INSTALLED WITH A CABLE WEIGHT AND SHALL NOT BE TETHERED TO THE DISCHARGE LINE IN ORDER TO ALLOW FOR THEM TO BE PULLED UP TO THE TOP OF PUMP CHAMBER.
- 2.) FLOATS SHALL BE INSTALLED SO THAT THEY CAN BE ACCESSED FROM OUTLET MANHOLE COVER.
- 3.) FLOATS MUST BE INSTALLED SO THAT THEY ARE FREE TO MOVE THROUGHOUT IT'S TRAVEL AND NOT CONTACT THE PUMP BODY, PIPING, OR OTHER OBJECTS.

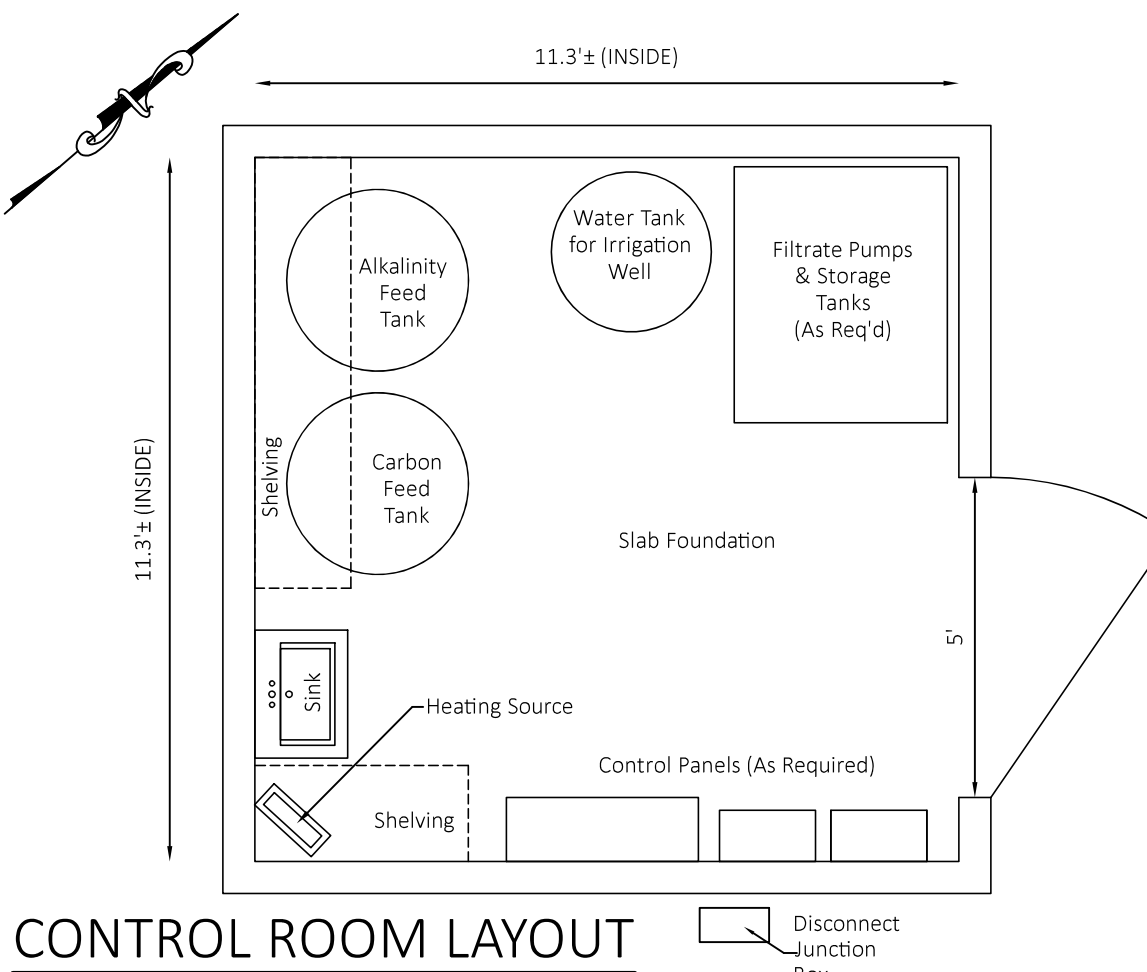
NOT TO SCALE



NOT TO SCALE



SCALE: 1" = 3'



G:\AAJobs\Malone- Cloverleaf Utility Plan- 40B- SDS & Drainage- REVISED 9-16-2020.dwg

[illegible]

NOT TO SCALE

24" Diam. Cast Iron Frame and Cover Raised to Grade
Use E1W LK 110A or Equal
(REFER TO PLAN VIEW DETAIL FOR COVER LOCATIONS)

12" DIAM HDPE @ 1% MIN. (TYP.)

Pitch

FROM SOUTH CATB #4

FROM CATB #3

FROM CATB #2

FROM CATB #1

FROM NORTH CATB #4

12" DIAM. HDPE @ 1% MIN.

12" DIAM. HDPE @ 1% MIN.

12" DIAM. HDPE @ 1% MIN.

12" DIAM. HDPE @ 1% MIN.

12" DIAM. HDPE @ 1% MIN.

EL=42.9s

EL=38.0s

EL=32.3s

EL=27.5s

EL=39.50

EL=39.50

EL=34.50

EL=34.50

EL=29.00

EL=29.00

EL=23.10

EL=23.10

EL=23.00

EL=23.00

8" SOLID BOTTOM

8" SOLID BOTTOM

8" SOLID BOTTOM

8" SOLID BOTTOM

8" SOLID BOTTOM

EL=33.8s

EL=29.8s

EL=23.3s

EL=17.4s

12" DIAMETER HDPE OUTFALL PIPE

ROCK OUTFALL SWALE

FINISH GRADE

PROPOSED SOLID 4-FOOT DIA. MANHOLE #4

PROPOSED SOLID 4-FOOT DIA. MANHOLE #3

PROPOSED SOLID 4-FOOT DIA. MANHOLE #2

PROPOSED SOLID 4-FOOT DIA. MANHOLE #1

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

NOT TO SCALE

24" x 24" Cast Iron Frame and Grate Raised to Grade (See Plan for Elevations)
Use EJIW LF24B-2 OR EQUAL Pitch

EL=53.14

12" DIA. HDPE @ 1% MIN.

EL=50.00

EL=49.90

8" SOLID BOTTOM

EL=44.34

24" Diam. Cast Iron Frame and Cover Raised to Grade
Use EJIW LK 110A or Equal
(REFER TO PLAN VIEW DETAIL FOR COVER LOCATIONS)

12" DIA. HDPE @ 0%

EL=49.90

EL=44.64

Double Layer of Filter Fabric

3/4" - 1-1/2" Stone

3.0'

6.0'

4.0'

6.0'

3.0'

22.0'

5'-0"

5'-0"

PROPOSED SOLID 4-FOOT DIA. MANHOLES (CATCH BASINS #5)

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL
5-FOOT SUMP BELOW INVERT IS REQUIRED

PROPOSED LEACHING FACILITY

USE TWO (2) 1000 GALLON PRECAST LEACHING PIT UNITS
H-20 RATED UNITS AS MFG. BY SHOREY PRECAST OR EQUAL

**TWO (2) PROPOSED SOLID
4-FOOT DIA. MANHOLE
(CATCH BASINS #6)**

USE SOLID CATCH BASIN WITH BOTTOM
AS MFG. BY SHOREY OR EQUAL.
5-FOOT SUMP BELOW
INVERT IS REQUIRED

**PROPOSED SOLID
4-FOOT DIA.
MANHOLE #6**

USE SOLID CATCH BASIN WITH BOTTOM
AS MFG. BY SHOREY OR EQUAL.
5-FOOT SUMP BELOW
INVERT IS REQUIRED

NOT TO SCALE

24"x24" Cast Iron Frame and Grate Raised to Grade (See Plan for Elevations) Use EJW LF248-2 OR EQUAL

24"x24" Cast Iron Raised to Grade Use EJW LF248-2

12" DIAM. HDPE 1% MIN. (TYP.)

12" DIAM. HDPE @ 1% MIN.

12" DIAM. HDPE @ 1% MIN.

FROM MANHOLE #4

TO OUTFLOW SWALE

EL=26.34

EL=27.54

EL=26.34

EL=23.30

EL=23.10

EL=23.30

EL=17.64

EL=17.44

EL=17.64

8" SOLID BOTTOM

8" SOLID BOTTOM

8" SOLID BOTTOM

PROPOSED SOLID 4-FOOT DIA. CATCH BASIN #3

PROPOSED SOLID 4-FOOT DIA. MANHOLE #3

PROPOSED SOLID 4-FOOT DIA. CATCH BASIN #3

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

Diagram illustrating three proposed solid 4-foot diameter catch basins with 8-inch solid bottoms, connected to manholes. The diagram includes elevations, pipe diameters, and material specifications.

Annotations:

- NOT TO SCALE
- 24" x 24" Cast Iron Frame and Grate Raised to Grade (See Plan for Elevations) Use EIJW LF248-2 OR EQUAL
- 24" x 24" Cast Iron Frame and Grate Raised to Grade (See Plan for Elevations) Use EIJW LF248-2 OR EQUAL
- 24" x 24" Cast Iron Frame and Grate Raised to Grade (See Plan for Elevations) Use EIJW LF248-2 OR EQUAL
- 12" DIAM. HDPE @ 1% MIN. (TYP.)
- Use EIJW LK 110A or Equal (REFER TO PLAN VIEW DETAIL FOR COVER LOCATIONS)

Diagram Details:

- Three proposed solid 4-foot diameter catch basins are shown, each with an 8" solid bottom.
- The catch basins are connected to manholes (FROM MANHOLE #4 and TO MANHOLE #3).
- The catch basins have a bottom elevation of EL=29.00.
- The manholes have a bottom elevation of EL=29.10.
- The catch basins have a bottom elevation of EL=29.00.
- The manholes have a bottom elevation of EL=29.10.
- The catch basins have a bottom elevation of EL=29.00.
- The manholes have a bottom elevation of EL=29.10.
- The catch basins have a bottom elevation of EL=29.00.
- The manholes have a bottom elevation of EL=29.10.

Proposed Solid 4-Foot Dia. Catch Basin #3

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

Proposed Solid 4-Foot Dia. Manhole #3

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

Proposed Solid 4-Foot Dia. Catch Basin #3

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

24"x24" Cast Iron Frame and Grate Raised to Grade Use EIJW LK 110A or Equal (REFER TO PLAN VIEW DETAIL FOR COVER LOCATIONS)

24"x24" Cast Iron Frame and Grate Raised to Grade (See Plan for Elevations) Use EIJW LF248-2 OR EQUAL

24"x24" Cast Iron Frame and Grate Raised to Grade (See Plan for Elevations) Use EIJW LF248-2 OR EQUAL

El=45.2± Pitch El=42.9± El=43.0± Pitch

TO MANHOLE #3

12" DIAM. HDPE @ 1% MIN. El=42.20 El=39.50

8" SOLID BOTTOM El=36.5±

12" DIAM. HDPE @ 1% MIN. El=39.50 El=40.00

8" SOLID BOTTOM El=33.8±

8" SOLID BOTTOM El=34.3±

PROPOSED SOLID 4-FOOT DIA. CATCH BASINS #4 (NORTH SIDE)

PROPOSED SOLID 4-FOOT DIA. MANHOLE #4

PROPOSED SOLID 4-FOOT DIA. CATCH BASINS #4 (SOUTH SIDE)

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

NOT TO SCALE

24" Diam. Cast Iron Frame and Grate Raised to Grade
Use EJIW LK 110A or Equal
(REFER TO PLAN VIEW DETAIL FOR COVER LOCATIONS)

24" x 24" Cast Iron Frame and Grate Raised to Grade [See Plan for Elevations]
Use EJIW LF248-2 OR EQUAL

24" x 24" Cast Iron Frame and Grate Raised to Grade [See Plan for Elevations]
Use EJIW LF248-2 OR EQUAL

12" DIAM. HDPE @ 1% MIN. (TYP.)

12" DIAM. HDPE @ 1% MIN.

12" DIAM. HDPE @ 1% MIN.

FROM MANHOLE #4

TO MANHOLE #3

8' SOLID BOTTOM

8' SOLID BOTTOM

8' SOLID BOTTOM

8' SOLID BOTTOM

El=37.84

El=38.04

El=37.84

El=34.80

El=34.50

El=34.80

El=34.50

El=29.14

El=29.84

El=29.14

El=29.14

PROPOSED SOLID 4-FOOT DIA. CATCH BASIN #3

PROPOSED SOLID 4-FOOT DIA. MANHOLE #3

PROPOSED SOLID 4-FOOT DIA. CATCH BASIN #3

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

USE SOLID CATCH BASIN WITH BOTTOM AS MFG. BY SHOREY OR EQUAL 5-FOOT SUMP BELOW INVERT IS REQUIRED

[illegible]

NOT TO SCALE

12" DIA PVC OUTFLOW PIPE

3'

6'

SPLASH PAD

6" TRAP ROCK ON FILTER FABRIC

12'

RIPRAP NOTES:

- 1.) RIPRAP SHALL BE PLACED INTO CLEAN SAND, FREE OF SILT AND DEBRIS.
- 2.) RIPRAP STONE SHALL BE 6" TO 8" CHUNK STONE PLACED IN RANDOM PATTERN WITH UNEVEN SURFACE SO AS TO REDUCE DISCHARGE ENERGY.
- 3.) THE BED OF RIPRAP SHALL BE 1.5 FEET THICK.
- 4.) THE BED OF RIPRAP SHALL BE LAID ON A DOUBLE LAYER OF FILTER FABRIC.

Technical drawing of a 1000 Gallon Leach Pit. The drawing includes the following dimensions and components:

- Scale:** 1"=10'
- Overall Length:** 22.00'
- Internal Length Segments:** 6.00', 10.00', 6.00'
- Overall Width:** 12.00'
- Internal Width Segments:** 3.00', 6.00', 3.00'
- Components:**
 - 3/4" to 1 1/2" DOUBLE WASHED STONE (indicated by a line pointing to the top layer of the pit)
 - 12" DIA. HDPE PIPE (indicated by a line pointing to the central pipe connecting the two circular tanks)

SCALE: 1"=10'

Labels and Dimensions:

- PROPOSED GRADE
- PROPOSED SLOPE BEYOND OUTLET
- PROPOSED RIM- OUTLET
- BOTTOM OF SWALE
- 4' MIN
- PROPOSED OUTFALL PIPE
- PROPOSED 1.5 FEET DEEP, RIP RASH PAD, 6" TO 8" CRINK STONE PLACED ON FILTER FABRIC
- PROPOSED BOTTOM OF SWALE BEYOND THE RIP RASH
- PROPOSED GRADE
- NO INLET TO TYP SHALL BE SLOPE OF THE SWALE ABOVE E BE USED AS E THE SLOPE
- PROPOSED LEACHING FACILITY

SWALE NOTES:

- 1.) THE BOTTOM AND SIDE SLOPES OF THE SWALE, UP TO THE TOP OF THE OUTFALL PIPE FROM THE MANHOLE, SHALL BE COVERED WITH 6 INCHES OF LOAM AND SEEDED WITH A WET MEADOW SEED MIX. APPLICATION RATE SHALL BE PER RIRG'S SPECIFICATIONS
- 2.) THE SLOPES ABOVE THE OUTFALL PIPE FROM MANHOLE SHALL BE COVERED WITH A MINIMUM OF 4-INCHES OF LOAM, COVERED WITH THE ON-SITE GROUND VEGETATION.
- 3.) ALL SLOPED AREAS SHALL BE COVERED WITH JUTE NETTING EROSION CLOTH, SECURED IN PLACE.

NOT TO SCALE

1" Rolled Finish Bituminous Concrete
1 1/2" Rolled Binder Bituminous Concrete

8" PROCESSED STONE, 3/4" MAX
2-4" LIFTS

VARIES - 4" MIN
1% PITCH (OR AS SPEC.)

12"

3"

2" Rolled Finish Bituminous Concrete
2 1/2" Rolled Binder Bituminous Concrete

8" Processed Stone or Equal (2-4" LIFTS)

Rollled Clean Granular Base

EXTEND BINDER COURSE 2" PAST BACK OF BERM

PROPOSED 12" WIDE, 3" HIGH "MODIFIED CAPE COD" BERM

EXTEND PROCESSED STONE PAST
EDGE OF PROPOSED BIT. PAVEMENT
BY 4 INCHES

14" WIDE TRAVEL SURFACE

Flow

Flow

Flow Direction, See Sheet 2 of 6
for Spot Grading & Pitch of Gravel Road

4" Layer of 1/2" Native Stone

12" Processed Stone or Equal (3-4" LIFTS)

16" PROCESSED STONE ROAD BASE

Clean Sub-Base - Free of Organic or Loamy Material

EMERGENCY ACCESS DRIVE SECTION

NOT TO SCALE

24" Diam. Cast Iron Frame and Cover
Raised to Grade
Use EJIW LK 110A or Equal

Proposed Grade

3" MIN.

NOTE:
1.) THE LEACHING BASIN
SHALL INSPECT THE SOIL
FACILITY INSTALLATION.

PITCH CONTRACTOR
MAKE SURE THERE ARE
NO JOINTS IN PROPOSED PIPE

Double Layer of Filter Fabric

5.3'

3/4" - 1 1/2" Stone

3.0' 6.0' 3.0' 12.0'

1000 Gallon Leach Pit

USE (6) LP-1000-H-20
AS MANUFACTURED BY SHOREY OR EQUAL
WITH 4" STONE AROUND

- 1.) ALL ROOF GUTTERS SHOULD BE DIRECTLY CONNECTED TO DRYWELLS USING 6" ADS PIPE
- 2.) DRYWELLS SHALL BE SET FULLY INTO CLEAN SAND. DESIGN ENGINEER SHALL INSPECT THE SOILS AROUND AND BELOW THE LEACHING FACILITY PRIOR TO FACILITY INSTALLATION.

Diagram illustrating the cross-section of a road pavement structure, showing various layers and dimensions. The diagram is labeled "NOT TO SCALE".

Dimensions and Layers:

- Grass Shoulder: 4' (on both sides)
- Grass Shoulder: 12" (on both sides)
- 3" High Berm
- 10' (distance from berm to centerline)
- 22' (total width of the paved area)
- 10' (distance from centerline to berm)
- 1/4" per foot pitch (slope of the berm)
- 1/4" per foot pitch (slope of the road surface)
- 6" (thickness of the sub-base layer)
- 6" (thickness of the base layer)

Pavement Layers (from top to bottom):

- 2" Finish Cover (Rolled)
- 2 1/2" Binder Course (Rolled)
- 8" Dense Grade Crushed Stone (Sub-Base - (2) 4" Lifts)
- (Min) 4" Clean Sand Sub-Grade (Base)

Pavement Note:

IN AREAS OF THE CENTER COURT AND BUILDING #23, THE PAVEMENT IS NOT CROWNED BUT SUPER-ELEVATED SO AS TO PUSH THE WATER TOWARDS THE RECEIVING CATCH BASINS.

Scale: 1" = 30'

REVISED 9-16-2020: ADJUSTED GRADING AND DRAINAGE SO AS TO ADDRESS PEER REVIEW COMMENTS.
REVISED 7-28-2020: ADJUSTED SEWAGE SYSTEM AND DRAINAGE FACILITIES AS REQUESTED THROUGH THE PEER REVIEW. MODIFIED SWALE AND DRAINAGE FACILITIES; MODIFIED NOTES ON SWALE INTO 5. ACCORDINGLY.
REVISED 6-5-2020: UPDATED SEWAGE SYSTEM TREATMENT TO INCLUDE 10 PPM NITROGEN LIMIT; ADJUSTED SEWER MANHOLE LAYOUT; ADJUSTED DRAINAGE TO INCLUDE SWALES AND ADDITIONAL CONTRIBUTORY AREAS; UPDATED NOTES AND DETAILS ACCORDINGLY

REVISED 2-14-2020: UPDATED BUILDING LAYOUT, ADJUSTED ENTRANCE;
UPDATED SEWAGE SYSTEM COLLECTION AND ADDED I.A. TREATMENT
TECHNOLOGY; UPDATED WATER SERVICE LAYOUT AND DRAINAGE
ACCORDINGLY

CLOVERLEAF TRURO RENTAL HOUSING
Community Housing Resource, Inc.; P.O. Box 1015, Provincetown, MA 02657

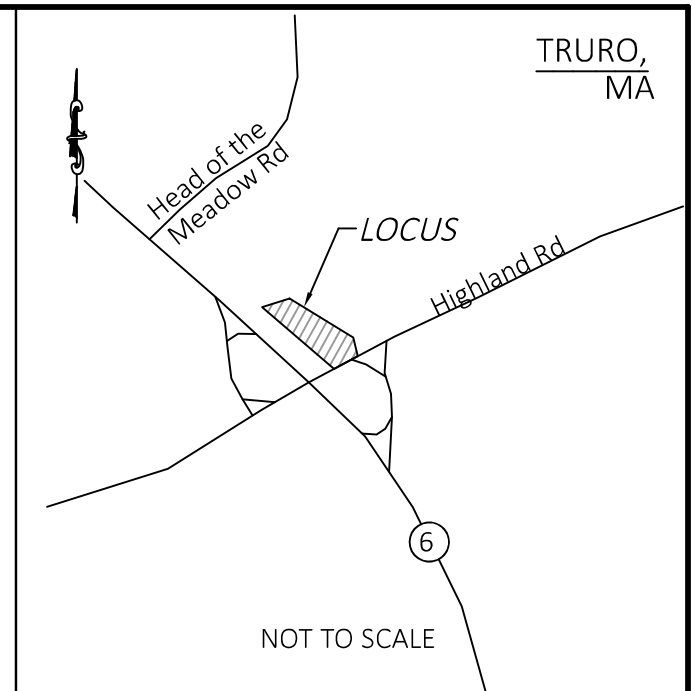
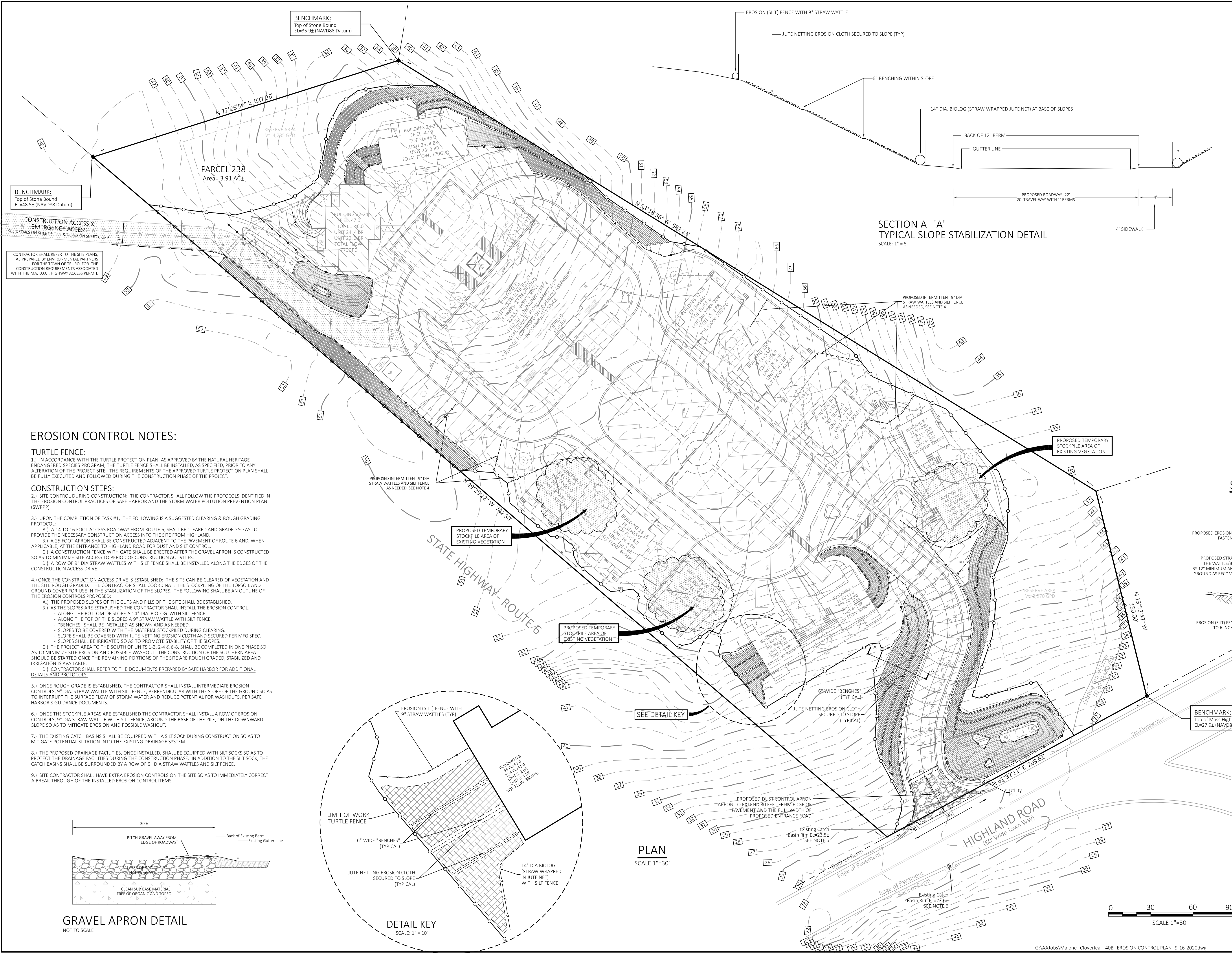
SITE DETAILS- 40B PERMIT SET
22 HIGHLAND ROAD, TRURO, MA



J.M. O'REILLY & ASSOCIATES, INC.
Professional Engineering & Land Surveying Services

1573 Main Street - Route 6A
P.O. Box 1773
(508)896-6601 Office Brewster, MA 02631 (508)896-6602 Fax

DATE:	SCALE:	BY:	CHECK:	JOB NUMBER:
11-1-2019	As Noted	RFR	JMO	JMO-8446A



PLAN BOOK 672
ASSESSORS' MAP 36

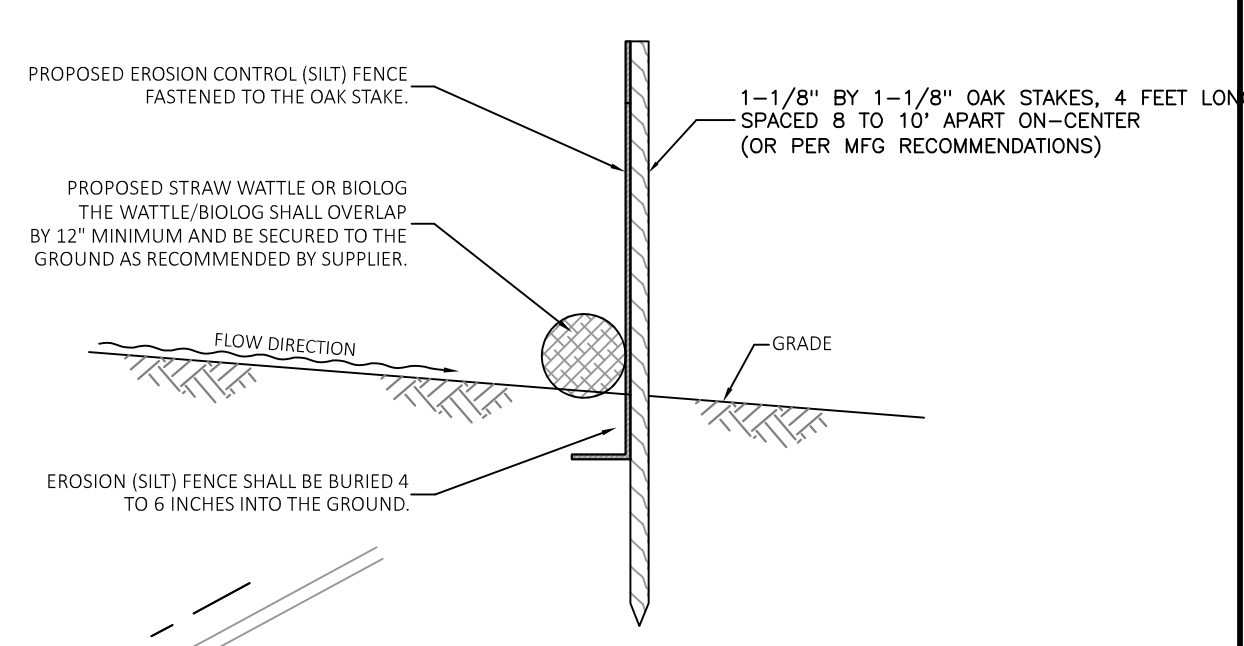
PAGE 34
PARCEL 238

LEGEND	
	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING SPOT GRADE
	PROPOSED SPOT GRADE
	WATER SERVICE LINE
	GAS SERVICE LINE
	UNDERGROUND UTILITY SERVICE
	TEST HOLE / BORING LOCATION
	SEPTIC TANK
	DISTRIBUTION BOX
	SOIL ABSORPTION SYSTEM
	RESERVED FOR FUTURE
	UTILITY POLE
	CATCH BASIN
	FIRE HYDRANT
	WELL
	DRAINAGE MANHOLE
	CONCRETE BOUND, FOUND
	TOP OF BANK

EROSION CONTROL KEY	
	LIMIT OF WORK TURTLE FENCE
	EROSION (SILT) FENCE & 9" STRAW WATTLE
	EROSION (SILT) FENCE & 14" DIA BIOLOG
	6" WIDE "BENCHES" FOR BREAK IN SLOPE
	EROSION CONTROL BLANKETS

SILT FENCE/EROSION CONTROL DETAIL:

TYPICAL SECTION



SHEET 6 OF 6
PERMIT SET - NOT FOR CONSTRUCTION

REVISED 9-16-2020: ADJUSTED GRADING AND DRAINAGE SO AS TO ADDRESS PEER REVIEW COMMENTS.

CLOVERLEAF TRURO RENTAL HOUSING
Community Housing Resource, Inc.; P.O. Box 1015, Provincetown, MA 02657

EROSION CONTROL SITE PLAN
22 HIGHLAND ROAD, TRURO, MA

J.M. O'REILLY & ASSOCIATES, INC.
Professional Engineering & Land Surveying Services

1573 Main Street - Route 6A
P.O. Box 1773
Brewster, MA 02631 (508)896-6601 Fax (508)896-6602

DATE: 7-28-2020	SCALE: As Noted	BY: JMO	CHECK: JMO	JOB NUMBER: JMO-8446A
--------------------	--------------------	------------	---------------	--------------------------

EROSION CONTROL NOTES:

TURTLE FENCE:

1.) IN ACCORDANCE WITH THE TURTLE PROTECTION PLAN, AS APPROVED BY THE NATURAL HERITAGE ENDANGERED SPECIES PROGRAM, THE TURTLE FENCE SHALL BE INSTALLED, AS SPECIFIED, PRIOR TO ANY ALTERATION OF THE PROJECT SITE. THE REQUIREMENTS OF THE APPROVED TURTLE PROTECTION PLAN SHALL BE FULLY EXECUTED AND FOLLOWED DURING THE CONSTRUCTION PHASE OF THE PROJECT.

CONSTRUCTION STEPS:

2.) SITE CONTROL DURING CONSTRUCTION: THE CONTRACTOR SHALL FOLLOW THE PROTOCOLS IDENTIFIED IN THE EROSION CONTROL PRACTICES OF SAFE HARBOR AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

3.) UPON THE COMPLETION OF TASK #1, THE FOLLOWING IS A SUGGESTED CLEARING & ROUGH GRADING PROTOCOL:

A.) A 14 TO 16 FOOT ACCESS ROADWAY FROM ROUTE 6, SHALL BE CLEARED AND GRADED SO AS TO PROVIDE THE NECESSARY CONSTRUCTION ACCESS INTO THE SITE FROM HIGHLAND.

B.) A 25 FOOT APRON SHALL BE CONSTRUCTED ADJACENT TO THE PAVEMENT OF ROUTE 6 AND, WHEN APPLICABLE, AT THE ENTRANCE TO HIGHLAND ROAD FOR DUST AND SILT CONTROL.

C.) A CONSTRUCTION FENCE WITH GATE SHALL BE ERECTED AFTER THE GRAVEL APRON IS CONSTRUCTED SO AS TO MINIMIZE SITE ACCESS TO PERIOD OF CONSTRUCTION ACTIVITIES.

D.) A ROW OF 9" DIA STRAW WATTLES WITH SILT FENCE SHALL BE INSTALLED ALONG THE EDGES OF THE CONSTRUCTION ACCESS DRIVE.

4.) ONCE THE CONSTRUCTION ACCESS DRIVE IS ESTABLISHED, THE SITE CAN BE CLEARED OF VEGETATION AND THE SITE ROUGH GRADED. THE CONTRACTOR SHALL COORDINATE THE STOCKPILING OF THE TOPSOIL AND GROUND COVER FOR USE IN THE STABILIZATION OF THE SLOPES. THE FOLLOWING SHALL BE AN OUTLINE OF THE EROSION CONTROLS PROPOSED:

A.) THE PROPOSED SLOPES OF THE CUTS AND FILLS OF THE SITE SHALL BE ESTABLISHED.

B.) AS THE SLOPES ARE ESTABLISHED THE CONTRACTOR SHALL INSTALL THE EROSION CONTROL.

- ALONG THE BOTTOM OF SLOPE A 14" DIA. BIOLOG WITH SILT FENCE.
- ALONG THE TOP OF THE SLOPES A 9" STRAW WATTLE WITH SILT FENCE.
- "BENCHES" SHALL BE INSTALLED AS SHOWN AND AS NEEDED.
- SLOPES TO BE COVERED WITH THE MATERIAL STOCKPILED DURING CLEARING.
- SLOPE SHALL BE COVERED WITH JUTE NETTING EROSION CLOTH AND SECURED PER MFG SPEC.
- SLOPES SHALL BE IRRIGATED SO AS TO PROMOTE STABILITY OF THE SLOPES.

C.) THE PROJECT AREA TO THE SOUTH OF UNITS 1-3, 2-4 & 6-8, SHALL BE COMPLETED IN ONE PHASE SO AS TO MINIMIZE SITE EROSION AND POSSIBLE WASHOUT. THE CONSTRUCTION OF THE SOUTHERN AREA SHOULD BE STARTED ONCE THE REMAINING PORTIONS OF THE SITE ARE ROUGH GRADED, STABILIZED AND IRRIGATION IS AVAILABLE.

D.) CONTRACTOR SHALL REFER TO THE DOCUMENTS PREPARED BY SAFE HARBOR FOR ADDITIONAL DETAILS AND PROTOCOLS.

5.) ONCE ROUGH GRADE IS ESTABLISHED, THE CONTRACTOR SHALL INSTALL INTERMEDIATE EROSION CONTROLS, 9" DIA. STRAW WATTLE WITH SILT FENCE, PERPENDICULAR WITH THE SLOPE OF THE GROUND SO AS TO INTERRUPT THE SURFACE FLOW OF STORM WATER AND REDUCE POTENTIAL FOR WASHOUTS, PER SAFE HARBOR'S GUIDANCE DOCUMENTS.

6.) ONCE THE STOCKPILE AREAS ARE ESTABLISHED THE CONTRACTOR SHALL INSTALL A ROW OF EROSION CONTROLS, 9" DIA. STRAW WATTLE WITH SILT FENCE, AROUND THE BASE OF THE PILE, ON THE DOWNWARD SLOPE SO AS TO MITIGATE EROSION AND POSSIBLE WASHOUT.

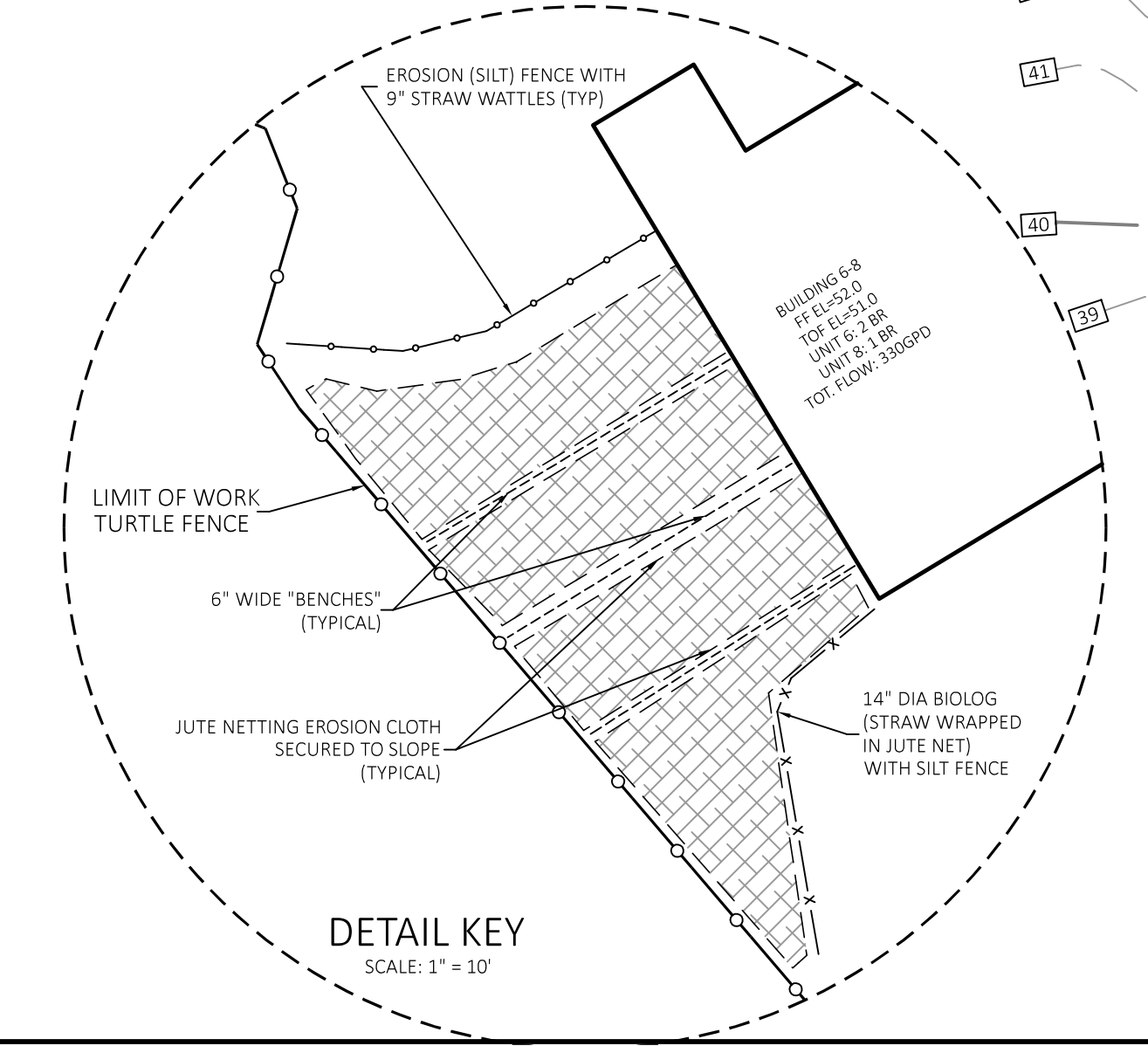
7.) THE EXISTING CATCH BASINS SHALL BE EQUIPPED WITH A SILT SOCK DURING CONSTRUCTION SO AS TO MITIGATE POTENTIAL SILTATION INTO THE EXISTING DRAINAGE SYSTEM.

8.) THE PROPOSED DRAINAGE FACILITIES, ONCE INSTALLED, SHALL BE EQUIPPED WITH SILT SOCKS SO AS TO PROTECT THE DRAINAGE FACILITIES DURING THE CONSTRUCTION PHASE. IN ADDITION TO THE SILT SOCK, THE CATCH BASINS SHALL BE SURROUNDED BY A ROW OF 9" DIA STRAW WATTLES AND SILT FENCE.

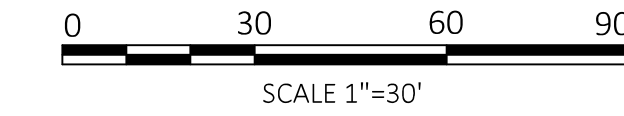
9.) SITE CONTRACTOR SHALL HAVE EXTRA EROSION CONTROLS ON THE SITE SO AS TO IMMEDIATELY CORRECT A BREAK THROUGH OF THE INSTALLED EROSION CONTROL ITEMS.

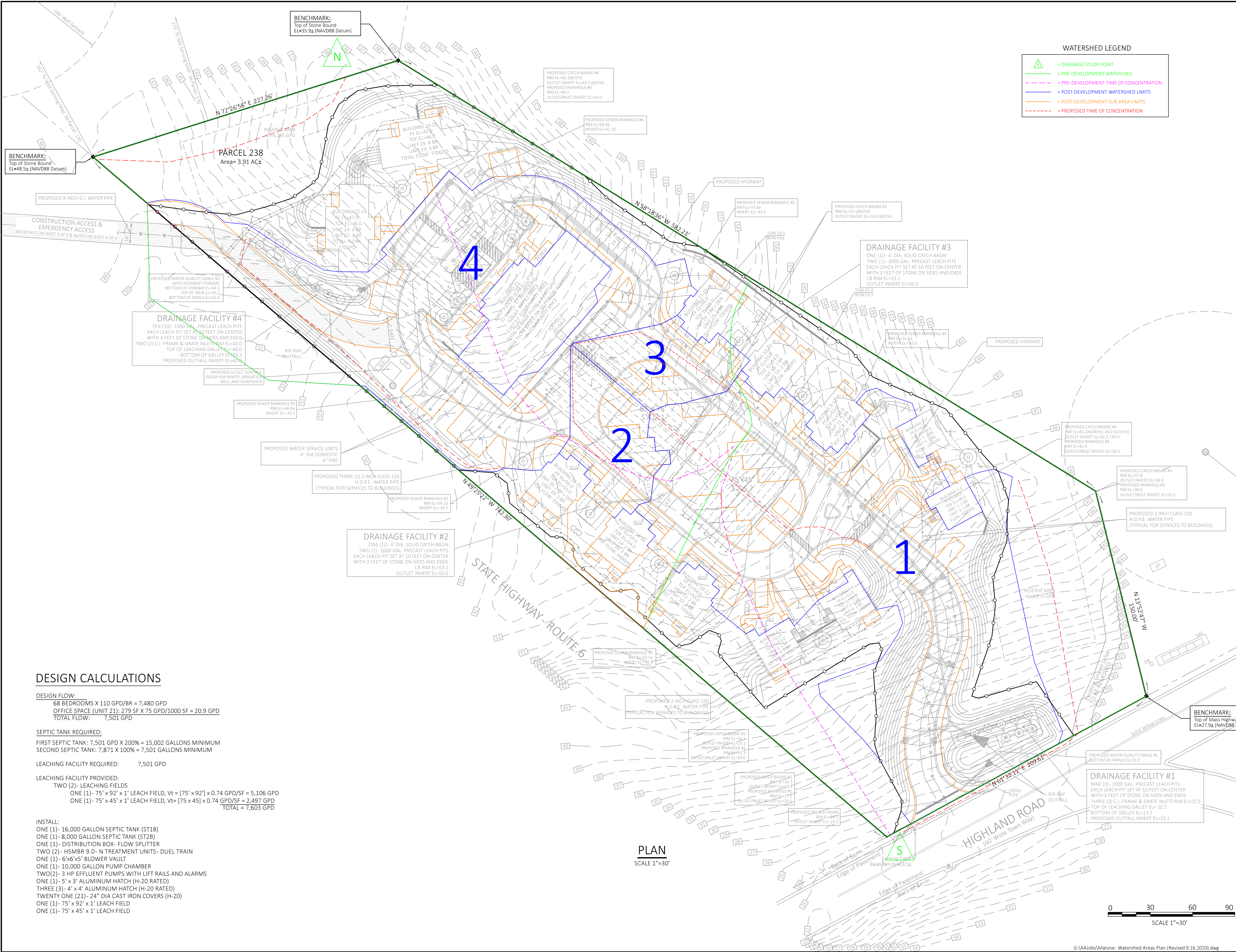
CONTRACTOR SHALL REFER TO THE SITE PLANS, AS PREPARED BY ENVIRONMENTAL PARTNERS FOR THE TOWN OF TRURO, FOR THE CONSTRUCTION REQUIREMENTS ASSOCIATED WITH THE MA, D.O.T. HIGHWAY ACCESS PERMIT.

GRAVEL APRON DETAIL
NOT TO SCALE



PLAN
SCALE 1"=30"





DESIGN CALCULATIONS

DESIGN FLOW:
68 BEDROOMS X 110 GPD/BR = 7,480 GPD
OFFICE SPACE (UNIT 21): 279 SF X 75 GPD/1000 SF = 20.9 GPD
TOTAL FLOW: 7,501 GPD

SEPTIC TANK REQUIRED:
FIRST SEPTIC TANK: 7,501 GPD X 200% = 15,002 GALLONS MINIMUM
SECOND SEPTIC TANK: 7,871 X 100% = 7,501 GALLONS MINIMUM

LEACHING FACILITY REQUIRED: 7,501 GPD

LEACHING FACILITY PROVIDED:
TWO (2)- LEACHING FIELDS
ONE (1)- 75' x 92' x 1' LEACH FIELD, Vt = [75' x 92'] x 0.74 GPD/SF = 5,106 GPD
ONE (1)- 75' x 45' x 1' LEACH FIELD, Vt = [75 x 45] x 0.74 GPD/SF = 2,497 GPD
TOTAL = 7,603 GPD

INSTALL:
ONE (1)- 16,000 GALLON SEPTIC TANK (ST1B)
ONE (1)- 8,000 GALLON SEPTIC TANK (ST2B)
ONE (1)- DISTRIBUTION BOX - FLOW SPLITTER
TWO (2)- HSMBR 9.0- N TREATMENT UNITS- DUEL TRAIN
ONE (1)- 6'x6'x5' BLOWER VAULT
ONE (1)- 10,000 GALLON PUMP CHAMBER
TWO(2)- 3 HP EFFLUENT PUMPS WITH LIFT RAILS AND ALARMS
ONE (1)- 5' x 3' ALUMINUM HATCH (H-20 RATED)
THREE (3)- 4' x 4' ALUMINUM HATCH (H-20 RATED)
TWENTY ONE (21)- 24" DIA CAST IRON COVERS (H-20)
ONE (1)- 75' x 92' x 1' LEACH FIELD
ONE (1)- 75' x 45' x 1' LEACH FIELD

TRURO, MA

Head of the Meadow Rd

LOCUS

Highland Rd

6

NOT TO SCALE

PLAN BOOK 672

ASSESSORS' MAP 36

PAGE 34

PARCEL 238

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE
- WATER SERVICE LINE
- UNDERGROUND UTILITY SERVICE
- GAS SERVICE LINE
- TEST HOLE / BORING LOCATION
- SEPTIC TANK
- DISTRIBUTION BOX
- SOIL ABSORPTION SYSTEM
- RESERVED FOR FUTURE
- UTILITY POLE
- FIRE HYDRANT
- WELL
- DRAINAGE MANHOLE
- STORMWATER FLOW ARROW
- CONCRETE BOUND, FOUND
- TOP OF BANK
- LIMIT OF WORK
- FENCE
- UNDERGROUND PROPANE TANK
- 12" x 6' LEACHING DRYWELL (ROOF)
- TRANSFORMER PAD- UTILITY CLUSTER
- GENERATOR

1573 Main Street - Route 6A

P.O. Box 1773

Brewster, MA 02631

(508)896-6601 Office (508)896-6602 Fax

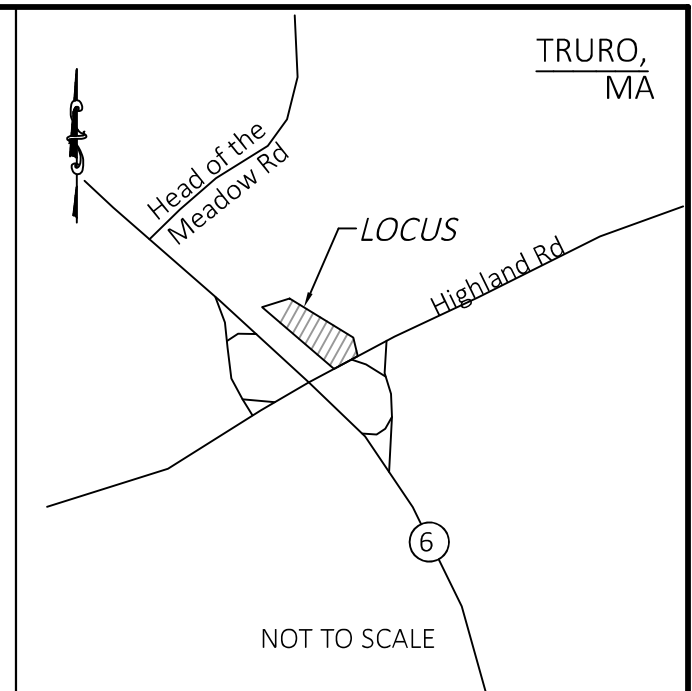
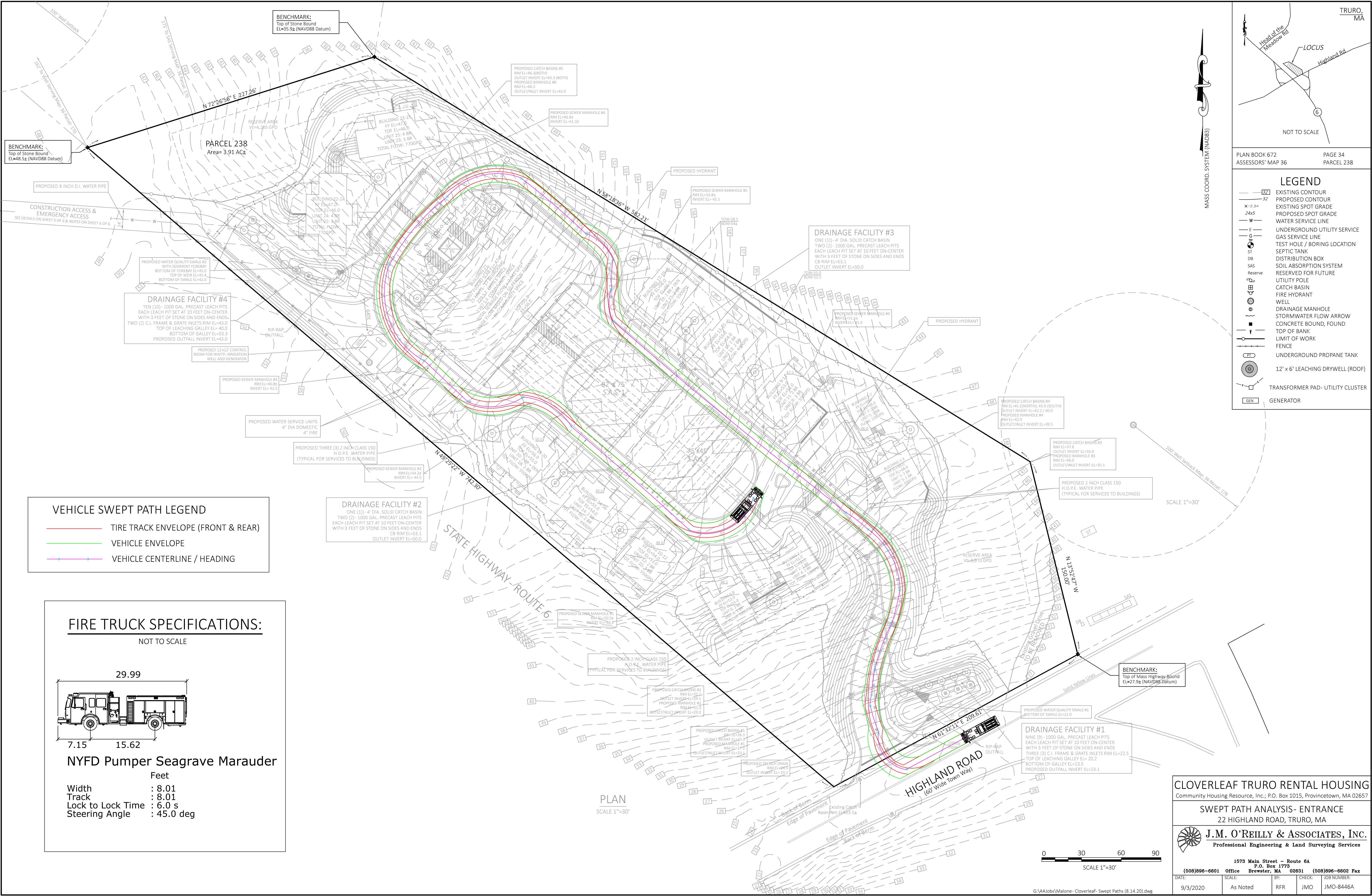
DATE: 9/16/2020 SCALE: As Noted BY: RFR CHECK: JMO JOB NUMBER: JMO-8446A

0 30 60 90

SCALE 1"=30'

G:\V\Jobs\Malone- Watershed Areas Plan (Revised 9.16.2020).dwg

MASS COORD. SYSTEM (NAD83)

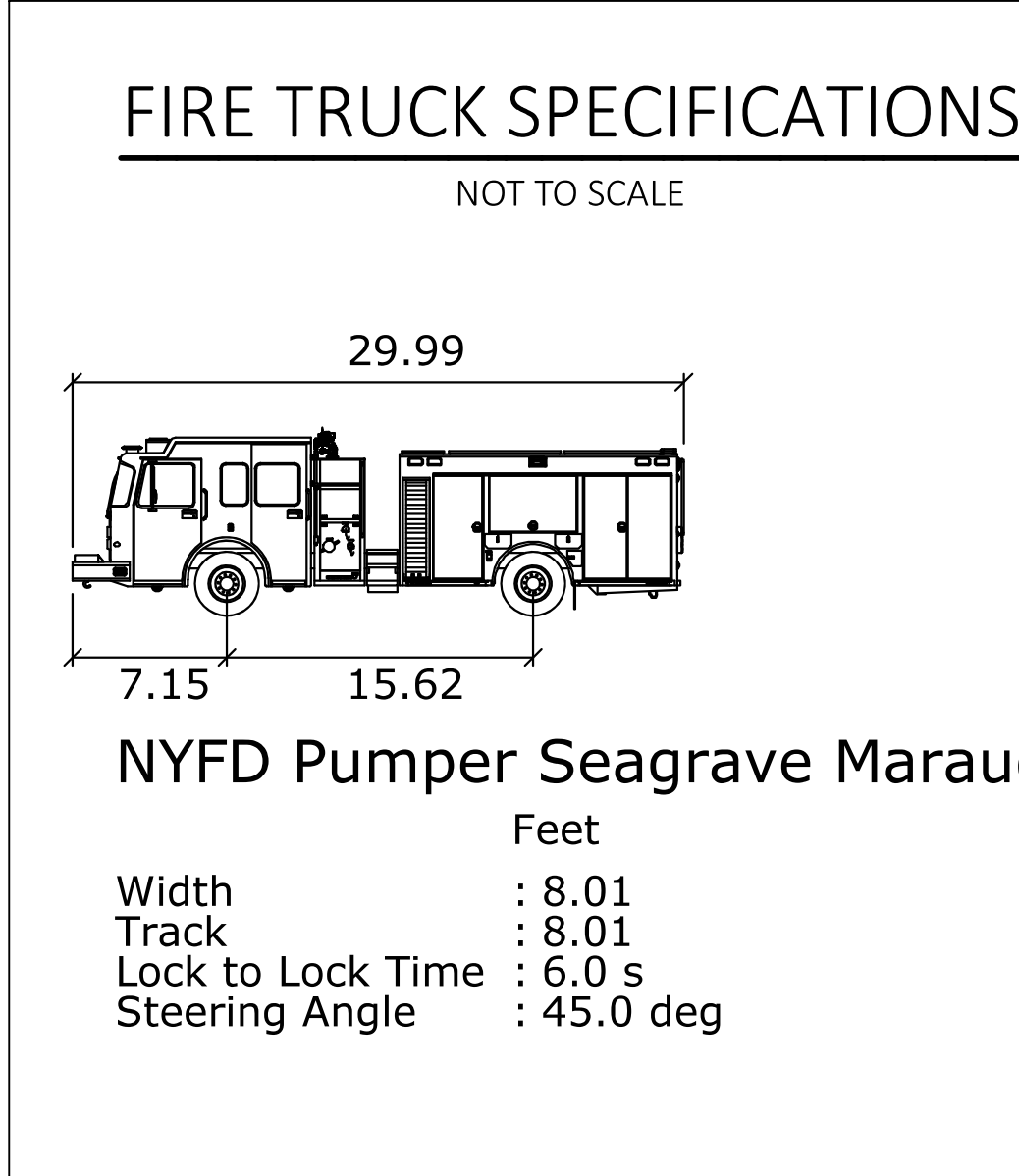


PLAN BOOK 672
ASSESSORS' MAP 36

PAGE 34
PARCEL 238

- ### LEGEND
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - EXISTING SPOT GRADE
 - PROPOSED SPOT GRADE
 - WATER SERVICE LINE
 - UNDERGROUND UTILITY SERVICE
 - GAS SERVICE LINE
 - TEST HOLE / BORING LOCATION
 - SEPTIC TANK
 - DISTRIBUTION BOX
 - SOIL ABSORPTION SYSTEM
 - RESERVED FOR FUTURE
 - UTILITY POLE
 - CATCH BASIN
 - FIRE HYDRANT
 - WELL
 - DRAINAGE MANHOLE
 - STORMWATER FLOW ARROW
 - CONCRETE BOUND, FOUND
 - TOP OF BANK
 - LIMIT OF WORK
 - FENCE
 - UNDERGROUND PROPANE TANK
 - 12" x 6' LEACHING DRYWELL (ROOF)
 - TRANSFORMER PAD- UTILITY CLUSTER
 - GENERATOR

- ### VEHICLE SWEEP PATH LEGEND
- TIRE TRACK ENVELOPE (FRONT & REAR)
 - VEHICLE ENVELOPE
 - VEHICLE CENTERLINE / HEADING



CLOVERLEAF TRURO RENTAL HOUSING
Community Housing Resource, Inc.; P.O. Box 1015, Provincetown, MA 02657

SWEPT PATH ANALYSIS- ENTRANCE
22 HIGHLAND ROAD, TRURO, MA

J.M. O'REILLY & ASSOCIATES, INC.
Professional Engineering & Land Surveying Services

1573 Main Street - Route 6A
P.O. Box 1773
Brewster, MA 02631

(508)896-6601 Office (508)896-6602 Fax

DATE:	SCALE:	BY:	CHECK:	JOB NUMBER:
9/3/2020	As Noted	RRR	JMO	JMO-8446A

