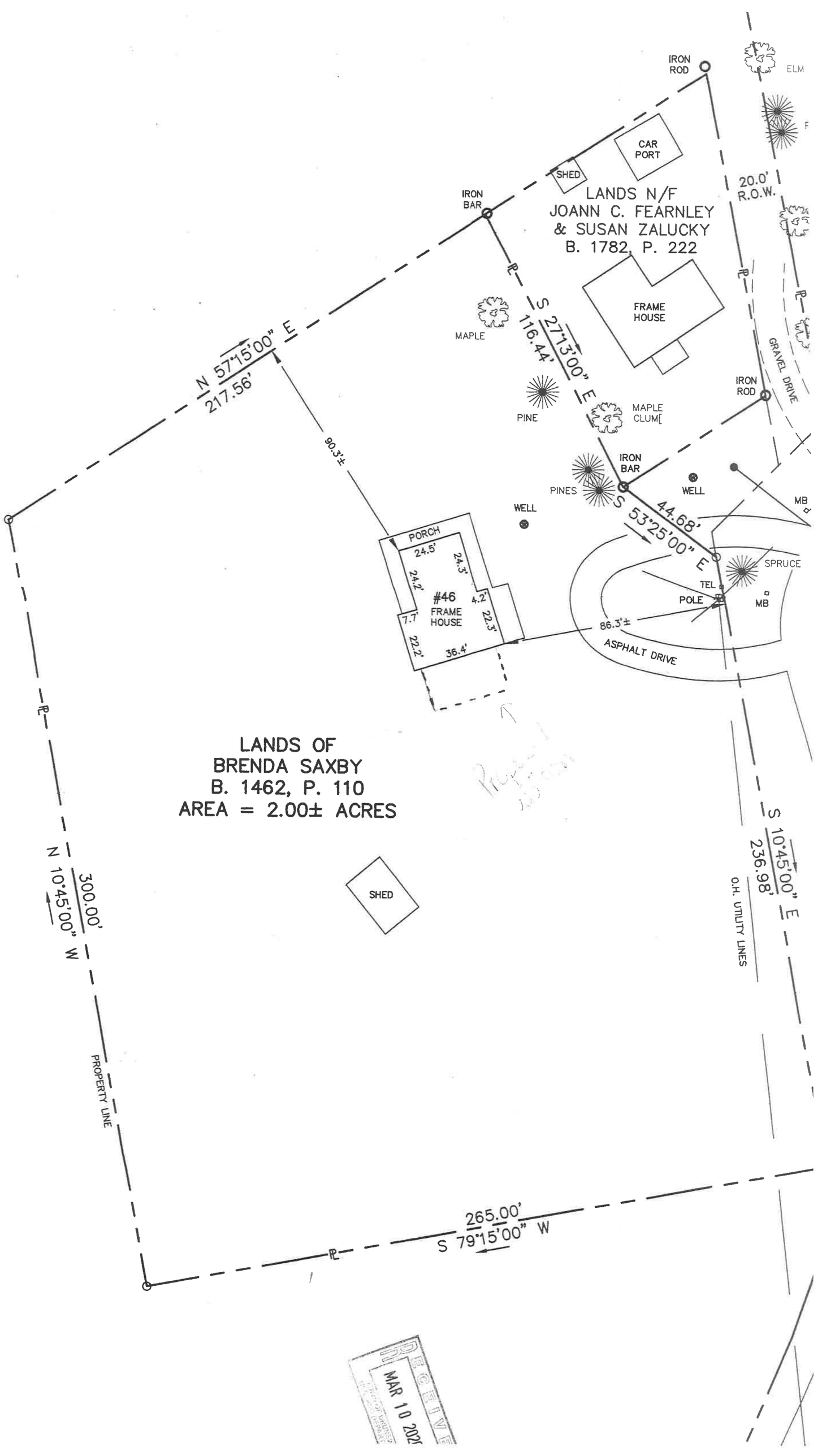
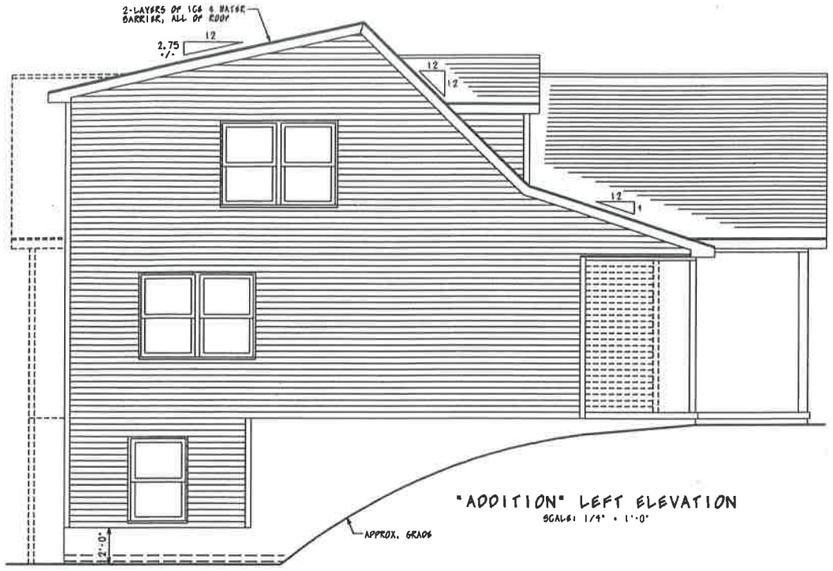
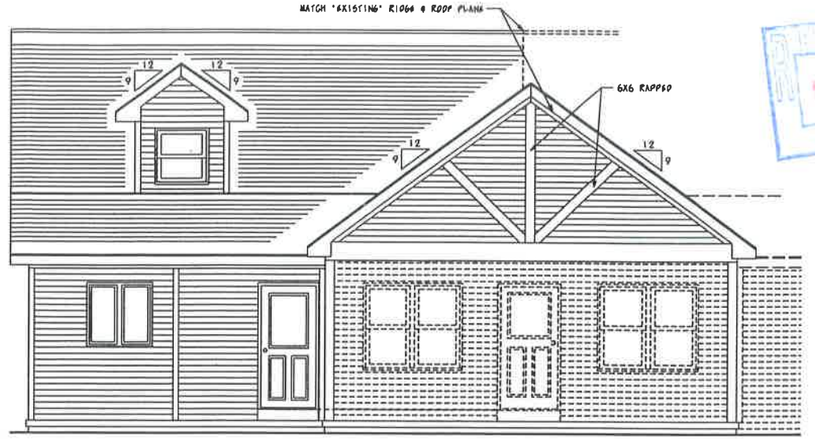




"ADDITION" LEFT ELEVATION
SCALE: 1/4" = 1'-0"



"ADDITION" FRONT ELEVATION
SCALE: 1/4" = 1'-0"

NOTES:
1. EXTERIOR WALLS ARE 2X6 CONSTRUCTION, DIMENSIONED AS 5 1/2".
2. INTERIOR WALLS ARE 2X4 CONSTRUCTION, DIMENSIONED AS 3 1/2".
3. ALL HEADERS ARE TO BE 2-2X10'S UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO BE FIELD VERIFIED, NOTIFY CONTRACTOR.
5. DRAWINGS ARE NOT TO BE SCALED FROM FOR ANY REASON.

PROPERTIES OF SOILS CLASSIFIED ACCORDING TO THE UNIFIED SOIL CLASSIFICATION SYSTEM

SOIL GROUP	UNIFIED SOIL CLASSIFICATION SYSTEM SYMBOL	SOIL DESCRIPTION	DRAINAGE CHARACTERISTICS (a)	FROST HEAVE POTENTIAL	VOLUME CHANGE POTENTIAL EXPANSION (b)
GROUP I	GW	Well-graded gravels, gravel sand mixtures, little or no fines.	Good	Low	Low
	GP	Poorly graded gravels or gravel sand mixtures, little or no fines.	Good	Low	Low
	SW	Well-graded sands, gravelly sands little or no fines.	Good	Low	Low
	SP	Poorly graded sands or gravelly sands, little or no fines.	Good	Low	Low
	GM	Silty gravels, gravel-sand-silt mixtures.	Good	Medium	Low
	SM	Silty sand, sand-silt mixture.	Good	Medium	Low
GROUP II	GC	Clayey gravels, gravel-sand-clay mixtures.	Medium	Medium	Low
	SC	Clayey sands, sand-clay mixture.	Medium	Medium	Low
	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fines sands or clayey silts with slight plasticity.	Medium	High	Low
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.	Medium	Medium	Medium to Low
GROUP III	CH	Inorganic clays of high plasticity, fat clays.	Poor	Medium	High
	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.	Poor	High	High
GROUP IV	OL	Organic silts and organic silty clays of low plasticity.	Poor	Medium	Medium
	OH	Organic clays of medium to high plasticity, organic silts.	Unsatisfactory	Medium	High
	PT	Peat and other highly organic soils.	Unsatisfactory	Medium	High

a. The percolation rate for good drainage is over 4 inches per hour, medium drainage is 2 inches to 4 inches per hour, and poor is less than 2 inches per hour.
b. Soils with a low potential expansion typically have a plasticity index (PI) of 0 to 15, soils with a medium potential expansion have a PI of 10 to 35 and soils with a high potential expansion have a PI greater than 20.

TABLE R404.1.2(8)
MINIMUM VERTICAL REINFORCEMENT FOR 6-, 8-, 10- AND 12-INCH NOMINAL FLAT BASEMENT WALLS

MAXIMUM WALL HEIGHT (feet)	MAXIMUM UNBALANCED BACKFILL HEIGHT (b) (feet)	MINIMUM VERICAL REINFORCEMENT-BAR SIZE AND SPACING (INCHES)											
		Soil classes (a) and design lateral soil (psf per foot of depth											
		GW, GP, SW and SP 30				GM, GC, SM, SW-SC and ML 45				SC, ML-CL and inorganic CL 60			
		Minimum wall thickness (inches)											
		6	8	10	12	6	8	10	12	6	8	10	12
8	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	5	NR	NR	NR	NR	#4@38"	NR	NR	NR	#5@43"	NR	NR	NR
	6	#4@37"	NR	NR	NR	#5@37"	NR	NR	NR	#6@37"	#5@43"	NR	NR
	7	#5@40"	NR	NR	NR	#6@37"	#5@41"	NR	NR	#6@34"	#6@43"	NR	NR
	8	#6@43"	#5@47"	NR	NR	#6@34"	#6@43"	NR	NR	#6@27"	#6@32"	#6@44"	NR
9	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	5	NR	NR	NR	NR	#4@35"	NR	NR	NR	#5@40"	NR	NR	NR
	6	#4@34"	NR	NR	NR	#5@48"	NR	NR	NR	#6@36"	#6@39"	NR	NR
	7	#5@36"	NR	NR	NR	#6@34"	#5@37"	NR	NR	#6@33"	#6@36"	#5@37"	NR
	8	#6@38"	#5@41"	NR	NR	#6@33"	#6@38"	#5@37"	NR	#6@24"	#6@29"	#6@39"	#4@48"
	9	#6@34"	#6@46"	NR	NR	#6@26"	#6@30"	#6@41"	NR	#6@19"	#6@23"	#6@30"	#6@39"

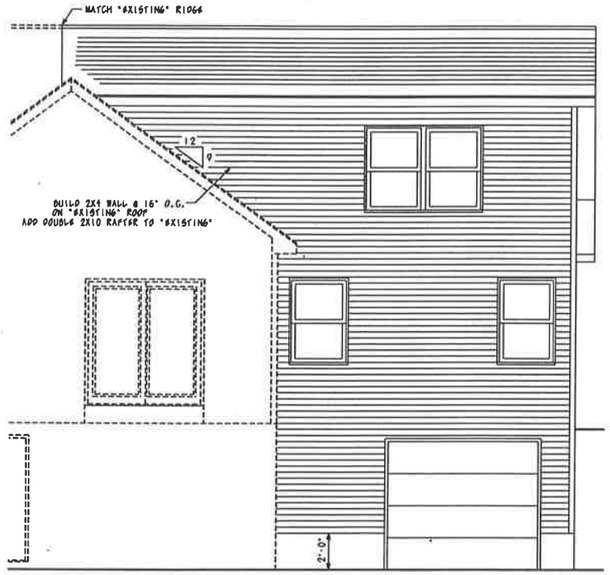
a. Soil classes are in accordance with the Unified Soil Classification. Refer to Table R405.1.
"NR" Not Required

SAFETY GLAZING NOTES:

1. GLAZING IN SIDE-HINGED DOORS EXCEPT JALOUSIES.
2. GLAZING IN FIXED AND SLIDING PANELS OF SLIDING DOOR ASSEMBLIES AND PANELS IN SLIDING AND BIFOLD CLOSET DOOR ASSEMBLIES.
3. GLAZING IN STORM DOORS.
4. GLAZING IN ALL UNFRAMED SWINGING DOORS.
5. GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS AND SHOWERS. GLAZING IN ANY PART OF A BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURES VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.
6. GLAZING, IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24-INCH ARC OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR OR WALKING SURFACE.
7. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL, OTHER THAN THOSE LOCATIONS DESCRIBED IN ITEMS 5 AND 6 ABOVE, THAT MEETS ALL OF THE FOLLOWING CONDITIONS:
   7.1 - EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 SQUARE FEET.
   7.2 - BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR.
   7.3 - TOP EDGE GREATER THAN 36 INCHES ABOVE THE FLOOR.
   7.4 - ONE OR MORE WALKING SURFACES WITHIN 36 INCHES HORIZONTALLY OF THE GLAZING.
8. ALL GLAZING IN RAILINGS REGARDLESS OF AN AREA OR HEIGHT ABOVE A WALKING SURFACE. INCLUDED ARE STRUCTURAL BALUSTER PANELS AND NONSTRUCTURAL IN-FILL PANELS.
9. GLAZING IN WALLS AND FENCES ENCLOSING INDOOR AND OUTDOOR SWIMMING POOLS, HOT TUBS AND SPAS WHERE THE BOTTOM EDGE OF THE POOL OR SPA SIDE IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE AND WITHIN 60 INCHES HORIZONTALLY OF THE WATER'S EDGE. THIS SHALL APPLY TO SINGLE GLAZING AND ALL PANES IN MULTIPLE GLAZING.
10. GLAZING ADJACENT TO STAIRWAYS, LANDINGS AND RAMPS WITHIN 36 INCHES HORIZONTALLY OF A WALKING SURFACE WHEN THE EXPOSED SURFACE OF THE GLASS IS LESS THAN 60 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE.
11. GLAZING ADJACENT TO STAIRWAYS WITHIN 60 INCHES HORIZONTALLY OF THE BOTTOM TREAD OF A STAIRWAY IN ANY DIRECTION WHEN THE EXPOSED SURFACE OF THE GLASS IS LESS THAN 60 INCHES ABOVE THE NOSE OF THE TREAD.

IMPORTANT NOTES:

1. PLANS COMPLY & TO COMPLY WITH 2015 IRC CODES & NYS 2017 UNIFORM CODE SUPPLEMENT.
2. ALL ELECTRICAL WORK IS TO COMPLY TO THE NATIONAL ELECTRICAL CODE.
3. ALL HEADERS, FLOOR JOISTS & RAFTERS ARE TO BE SPF #2 OR SOUTHERN PINE #1 OR BETTER, STUDS - STUD GRADE OR AS NOTED.
4. ALL HEADERS ARE TO BE 2-2X10'S UNLESS OTHERWISE SPECIFIED.
5. DESIGN LOADS:
   FIRST FLOOR - 40 psf LIVE LOAD
   - 10 psf DEAD LOAD
   SECOND FLOOR - 30 psf LIVE LOAD
   - 10 psf DEAD LOAD
   ROOF - 40 psf GROUND SNOW LOAD
   - 10 psf DEAD LOAD
   - 115 mph WIND LOAD
6. SMOKE DETECTOR: THE REQUIRED SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHEN SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE, AND WHEN PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION.
7. PROVIDE SMOKE DETECTORS: A.) AT EACH SLEEPING ROOM.
   B.) OUTSIDE EACH SEPARATE SLEEPING AREA.
   C.) ON EACH ADDITIONAL STORY OF THE DWELLING INCLUDING BASEMENT.



"ADDITION" REAR ELEVATION
SCALE: 1/4" = 1'-0"

RAFTER/OVERFRAMING CHART		
MAXIMUM RAFTER SPANS - GROUND SNOW LOAD = 50 PSF OR LESS & 10 PSF DEAD LOAD FOR SPRUCE PINE FIR #2 "SPF #2"		
12" O.C.	16" O.C.	24" O.C.
2X4 @ 12" O.C. - 7'-6"	2X4 @ 16" O.C. - 6'-0"	2X4 @ 24" O.C. - 5'-5"
2X6 @ 12" O.C. - 11'-3"	2X6 @ 16" O.C. - 9'-9"	2X6 @ 24" O.C. - 7'-11"
2X8 @ 12" O.C. - 14'-3"	2X8 @ 16" O.C. - 12'-4"	2X8 @ 24" O.C. - 10'-1"

RAFTER/OVERFRAMING CHART		
MAXIMUM RAFTER SPANS - GROUND SNOW LOAD = 50 PSF OR LESS & 10 PSF DEAD LOAD FOR SOUTHERN PINE #1 "SP #1"		
12" O.C.	16" O.C.	24" O.C.
2X10 @ 12" O.C. - 16'-2"	2X10 @ 16" O.C. - 15'-9"	2X10 @ 24" O.C. - 12'-10"
2X12 @ 12" O.C. - 21'-7"	2X12 @ 16" O.C. - 18'-6"	2X12 @ 24" O.C. - 15'-3"

LOC:
#46
BOTT LANE
TROY, NY
RENSSELAER COUNTY

ADDITION PLANS FOR
SAXBY & TALLMAN RESIDENCE

PH: 424-9183

DRAWN BY:
DANFORTH H. CHRISS

FILE NAME:
46_BOTT_LANE.DGN

SCALE:
AS SHOWN

SHEET 3

DATE:
3/20/20

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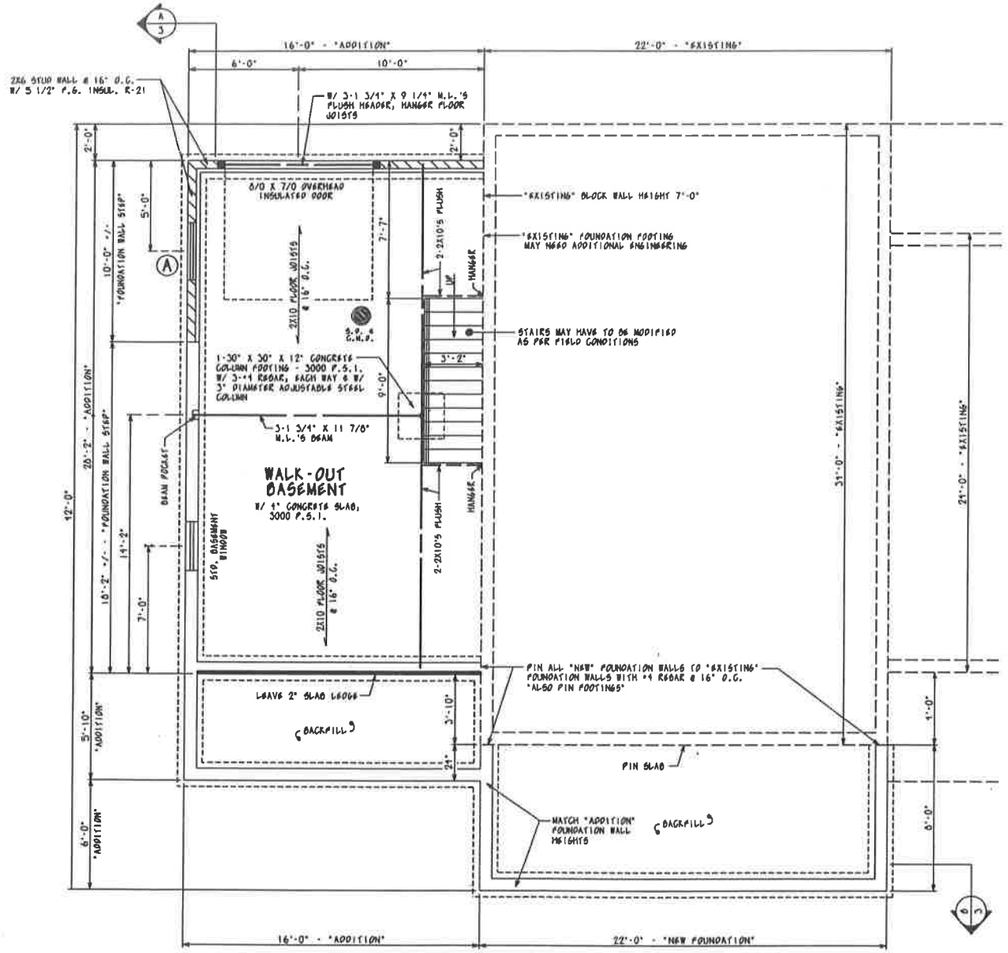


SMOKE DETECTOR & CARBON MONOXIDE DETECTOR COMBINATION
S.D. & C.M.D.

ADDITION FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

NOTE: ADDITIONAL AND/OR RELOCATION OF STD. BASEMENT WINDOWS AS PER CONTRACTOR.

FOUNDATION NOTES:

1. ALL FOUNDATION WALLS ARE 8" POURED 3000 P.S.I. W/ CONT. 16" X 8" 3000 P.S.I. CONCRETE FOOTINGS UNLESS OTHERWISE NOTED.
2. USE TABLES TO DETERMINE SOIL TYPE AND IF REBAR IS REQUIRED. ON SHEET 1 OF 3.
3. ALL FOOTINGS TO BE MINIMUM 40" BELOW FINISHED GRADE.
4. STEPPED FOUNDATION WALLS & FOOTINGS AS PER CONTRACTOR.
5. MAIN BASEMENT WALL HEIGHTS FIGURED AT 7'-10" TO 8'-0".

NOTES: 1. PROVIDE DOUBLE FLOOR JOISTS, SPACED DOUBLE FLOOR JOISTS, OR BLOCKING BETWEEN ADJACENT TYPICAL JOISTS UNDER PARALLEL PARTITIONS. METHOD AT EACH LOCATION SHALL BE SELECTED BY CONTRACTOR UNLESS DIRECTED ON PLANS.

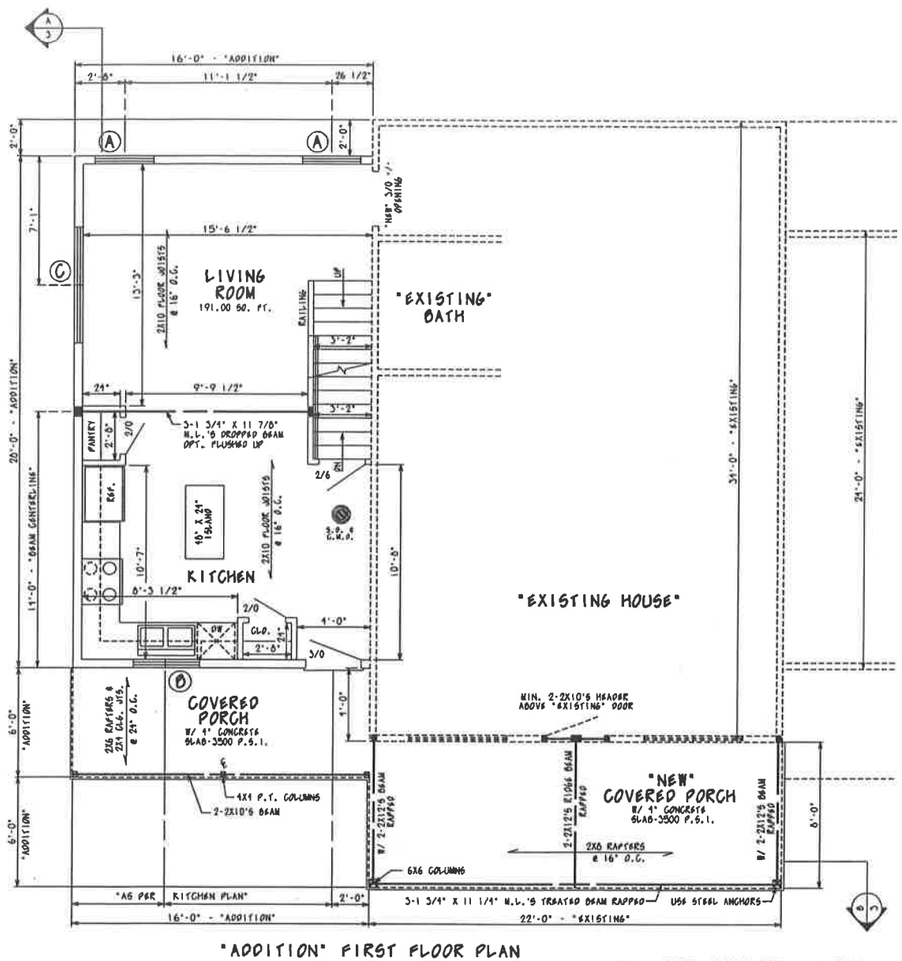
2. PROVIDE FULL BLOCKING BELOW ALL BEAM POSTS OR STUDS UNDER SUBFLOORING.

FLOOR JOISTS NOTE: 40 PSF LIVE LOAD - 10 PSF DEAD LOAD, MAXIMUM SOUTHERN PINE #1, 2X10 FLOOR JOIST SPAN @ 16" O.C. SHALL BE 16'-1".

BASEMENT STAIRS NOTES:
13 RISERS @ 7 13/16" APPROX.
12 TREADS @ 9" - NOSING
MAXIMUM RISER 8 1/4"
HEADROOM HEIGHT MINIMUM 6'-8"
ALSO SEE STAIRS, GUARDS & RAILING NOTES

LIGHT & VENT TABLE

ROOM & SQ. FT.	REQUIRED		ACTUAL	
	LIGHT 8%	VENT 4%	LIGHT	VENT
LIVING ROOM 191.00 SQ. FT.	15.28	7.64	41.24	22.92



SMOKE DETECTOR & CARBON MONOXIDE DETECTOR COMBINATION
S.D. & C.M.D.

"ADDITION" FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

"ADDITION" TOTAL = 794.00 SQ. FT.

NOTES: 1. PROVIDE DOUBLE FLOOR JOISTS, SPACED DOUBLE FLOOR JOISTS, OR BLOCKING BETWEEN ADJACENT TYPICAL JOISTS UNDER PARALLEL PARTITIONS. METHOD AT EACH LOCATION SHALL BE SELECTED BY CONTRACTOR UNLESS DIRECTED ON PLANS.

2. PROVIDE FULL BLOCKING BELOW ALL BEAM POSTS OR STUDS UNDER SUBFLOORING.

NOTE: ALL HEADERS ARE TO BE 2-2X10'S, UNLESS OTHERWISE NOTED.

FLOOR JOISTS NOTE: 30 PSF LIVE LOAD - 10 PSF DEAD LOAD, MAXIMUM SOUTHERN PINE #1, 2X10 FLOOR JOIST SPAN @ 16" O.C. SHALL BE 16'-0".

MAIN HOUSE STAIRS NOTES:
14 RISERS @ 7 5/8" APPROX.
13 TREADS @ 9" - NOSING
MAXIMUM RISER 8 1/4"
HEADROOM HEIGHT MINIMUM 6'-8"
ALSO SEE STAIRS, GUARDS & RAILING NOTES

POINT LOAD NOTE: ALL SIGNIFICANT POINT LOADS TO BE CONTINUOUSLY SOLID-BLOCKED THROUGH ALL LEVELS TO THE FOUNDATION.

WINDOW SCHEDULE

ANDERSEN 400 SERIES TILT-WASH DOUBLE-HUNG & CASEMENT HP LOW-E4 WINDOWS OR EQUAL U-FACTOR = 0.30

LETTER	QTY.	CATA. NUMBER	MIN. ROUGH OPENING	LIGHT	VENT	EGRESS
A	3	TW3046	3'-2 1/8" X 4'-8 7/8"	10.31	5.73	5.70
B	1	CN235 CASEMENT	3'-5 1/4" X 3'-5 3/8"	8.0	7.20	
C	3	TW3046-2 W/ FALL PROTECTION - 2ND FLR.	6'-4 1/8" X 4'-8 7/8"	20.62	11.46	5.70
D	1	TW26210	2'-10 1/8" X 3'-0 7/8"	5.23	2.98	

NOTE: VERIFY ALL CATA. NUMBERS AND R.O. DIMENSIONS AS PER MANUFACTURER.

EMERGENCY ESCAPE FOR BEDROOMS SPACE:
ABOVE/BELOW GRADE - 5.7 SQ. FT.
GRADE - 5.0 SQ. FT.

MINIMUM OPENING WIDTH SHALL BE 20 INCHES.
MINIMUM OPENING HEIGHT SHALL BE 24 INCHES.
44" MAX. SILL HEIGHT ABOVE FLOOR

NOTES:
1. EXTERIOR WALLS ARE 2X6 CONSTRUCTION, DIMENSIONED AS 5 1/2".
2. INTERIOR WALLS ARE 2X4 CONSTRUCTION, DIMENSIONED AS 3 1/2".
3. ALL HEADERS ARE TO BE 2-2X10'S, UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO BE FIELD VERIFIED, AS PER CONTRACTOR.
5. DRAWINGS ARE NOT TO BE SCALE FROM FOR ANY REASON.

LOC:
#46
BOTT LANE
TROY, NY
RENSSELAER COUNTY

ADDITION PLANS FOR SAXBY & TALLMAN RESIDENCE

PH: 424-9103

DRAWN BY: DANFORTH H. CHRISS

FILE NAME: 46_BOTT_LANE.DGN

SCALE: AS SHOWN

OF 3

DATE: 1/2020

STATE OF NEW YORK
WILLIAM H. SHAW
LICENSED PROFESSIONAL ENGINEER
064510

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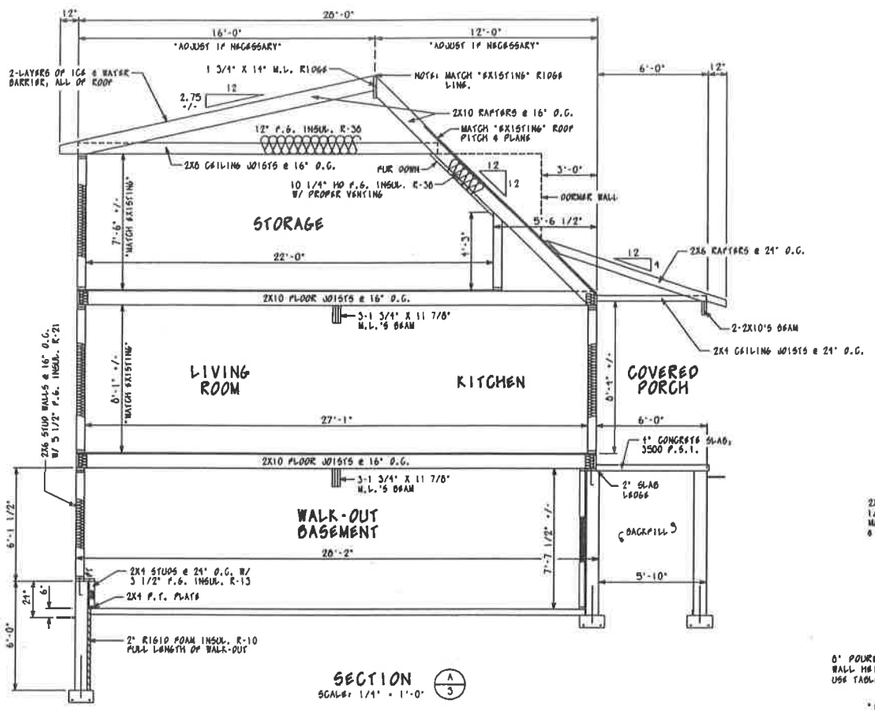
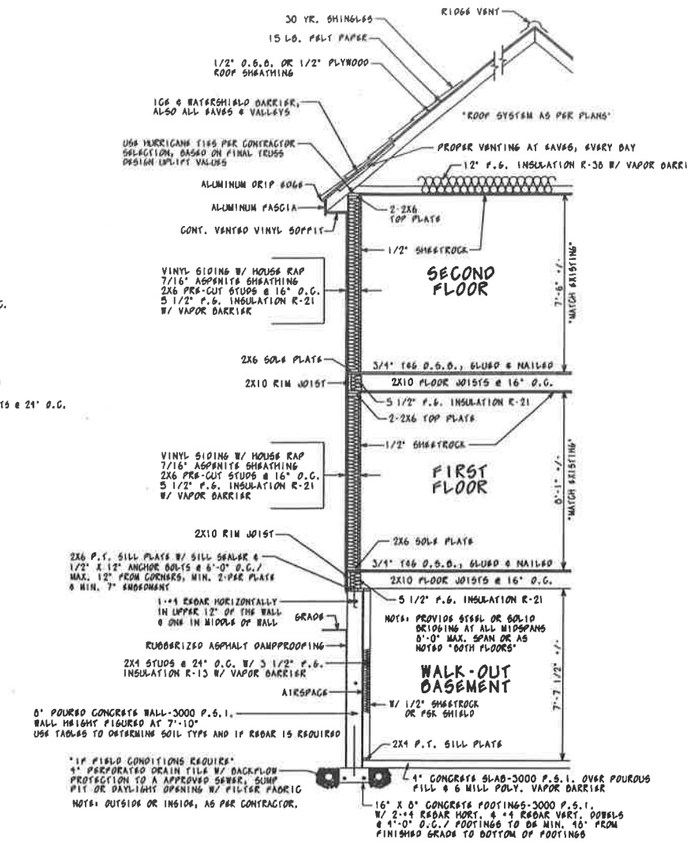
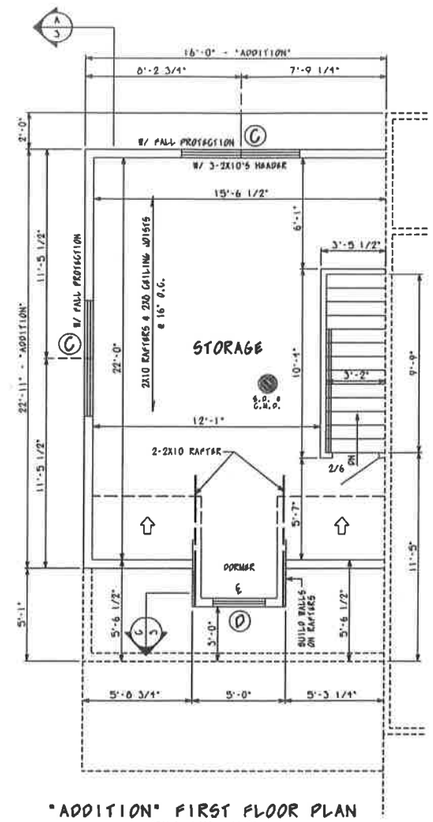


SECTION (A/3)
SCALE: 1/4" = 1'-0"



TYPICAL MATERIAL SECTION
"NOT TO SCALE"

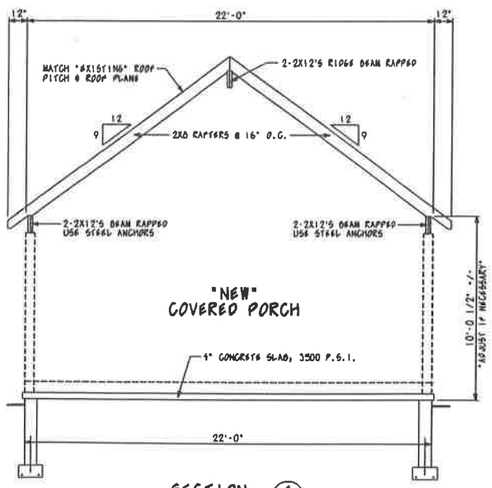


"ADDITION" FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

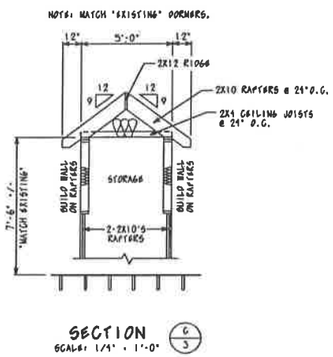
NOTE: ALL HEADERS ARE TO BE 2-2X10'S, UNLESS OTHERWISE NOTED.

S.M.O.K. SMOKE DETECTOR & CARBON MONOXIDE DETECTOR COMBINATION

POINT LOAD NOTE: ALL SIGNIFICANT POINT LOADS TO BE CONTINUOUSLY SOLID-BLOCKED THROUGH ALL LEVELS TO THE FOUNDATION.



SECTION (B/3)
SCALE: 1/4" = 1'-0"



SECTION (C/3)
SCALE: 1/4" = 1'-0"

RAFTER/OVERFRAMING CHART		
MAXIMUM RAFTER SPANS - GROUND SNOW LOAD = 50 PSF OR LESS & 10 PSF DEAD LOAD FOR SPRUCE PINE FIR #2 *SPF #2*		
12" O.C.	16" O.C.	24" O.C.
2X4 @ 12" O.C. - 7'-8"	2X4 @ 16" O.C. - 6'-0"	2X4 @ 24" O.C. - 5'-5"
2X6 @ 12" O.C. - 11'-3"	2X6 @ 16" O.C. - 9'-9"	2X6 @ 24" O.C. - 7'-11"
2X8 @ 12" O.C. - 14'-3"	2X8 @ 16" O.C. - 12'-4"	2X8 @ 24" O.C. - 10'-1"

RAFTER/OVERFRAMING CHART		
MAXIMUM RAFTER SPANS - GROUND SNOW LOAD = 30 PSF OR LESS & 10 PSF DEAD LOAD FOR SOUTHERN PINE #1 *SP #1*		
12" O.C.	16" O.C.	24" O.C.
2X10 @ 12" O.C. - 16'-2"	2X10 @ 16" O.C. - 13'-9"	2X10 @ 24" O.C. - 12'-10"
2X12 @ 12" O.C. - 21'-7"	2X12 @ 16" O.C. - 18'-8"	2X12 @ 24" O.C. - 15'-3"

NOTES:
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LOC:
•46
BOTT LANE
TROY, NY
RENSSELAER COUNTY

ADDITION PLANS FOR
SAXBY & TALLMAN RESIDENCE

PH: 424-9183
DRAWN BY:
DANFORTH H. CHRISS

FILE NAME:
46_BOTT_LANE.DGN

SCALE:
AS SHOWN

3 OF 3

DATE:
3/2020

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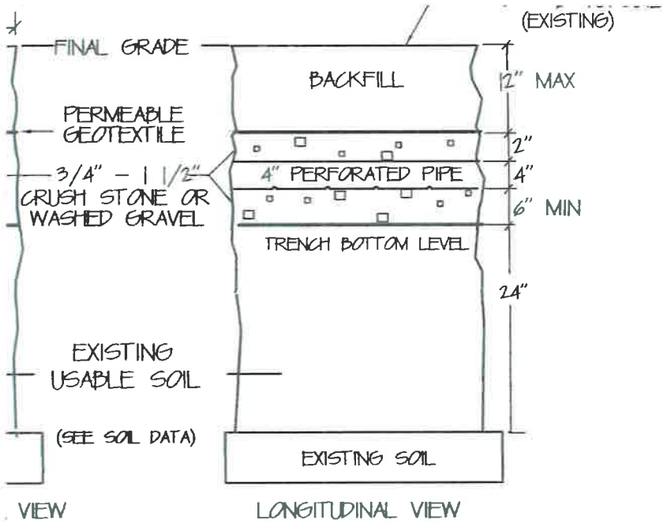

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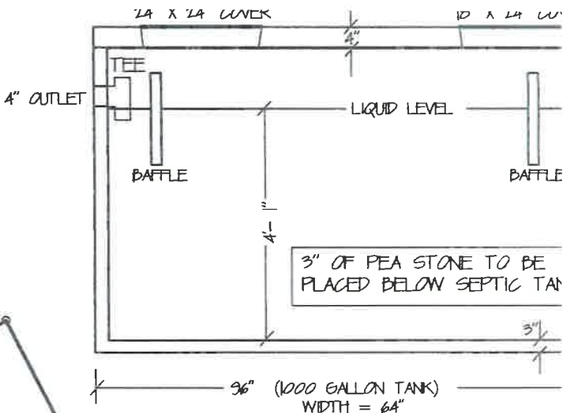
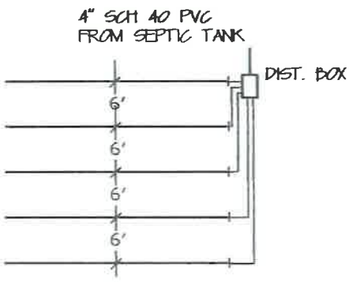


SEPTIC TANK SCHEMATIC

1000 GALLON CAPACITY [SEAMLESS]
AVAILAVBLE FROM MINER CONCRETE PRODUCTS [758

RENCH DETAIL

[NOT TO SCALE]

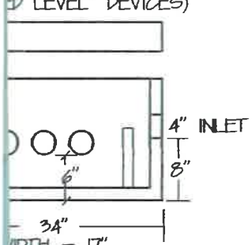


RALS EACH 50' LONG

LD SCHEMATIC

CALE: 1" = 20'

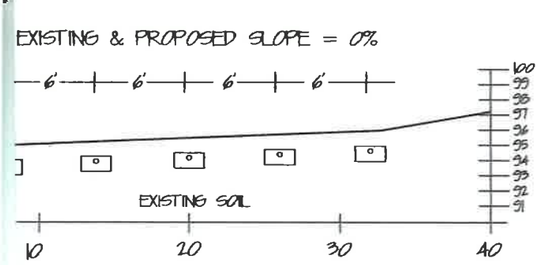
ETS BOTH SIDES
LETS ON END
D LEVEL" DEVICES)



TO BE PLACED BELOW D-BOX

TION BOX DETAIL

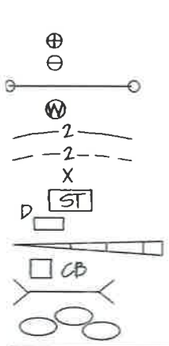
ER CONCRETE
3 OUTLET

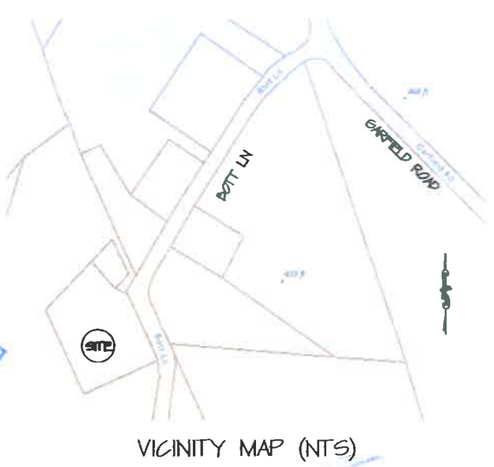


SECTION A - A

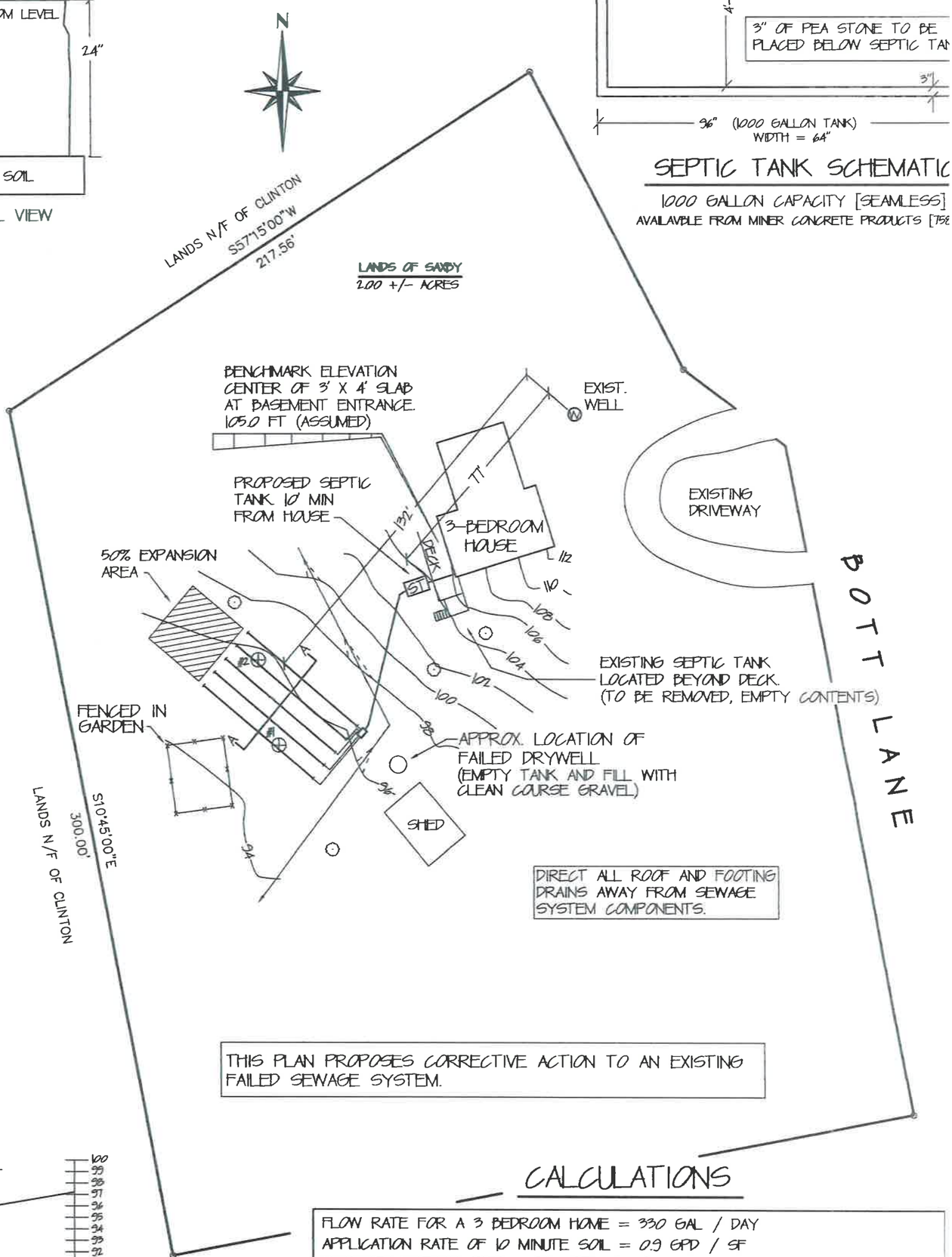
SCALE: 1" = 10'

TION ON THIS PLOT PLAN WAS OBTAINED
REPARED BY FREDERICK HALEY, L.S.





VICINITY MAP (NTS)



THIS PLAN PROPOSES CORRECTIVE ACTION TO AN EXISTING FAILED SEWAGE SYSTEM.

CALCULATIONS

FLOW RATE FOR A 3 BEDROOM HOME = 330 GAL / DAY
APPLICATION RATE OF 10 MINUTE SOIL = 0.9 GPD / SF
REQUIRED TRENCH AREA = 330 GPD / 0.9 = 433 SF
REQUIRED LENGTH OF 24" WIDE TRENCH = 433 / 2 = 217 LF.

PROPOSED TRENCH = 5 LATERALS @ 50 FT EACH = 250 LINEAL FEET

REV DATE

RENSSELAER COUNTY HE