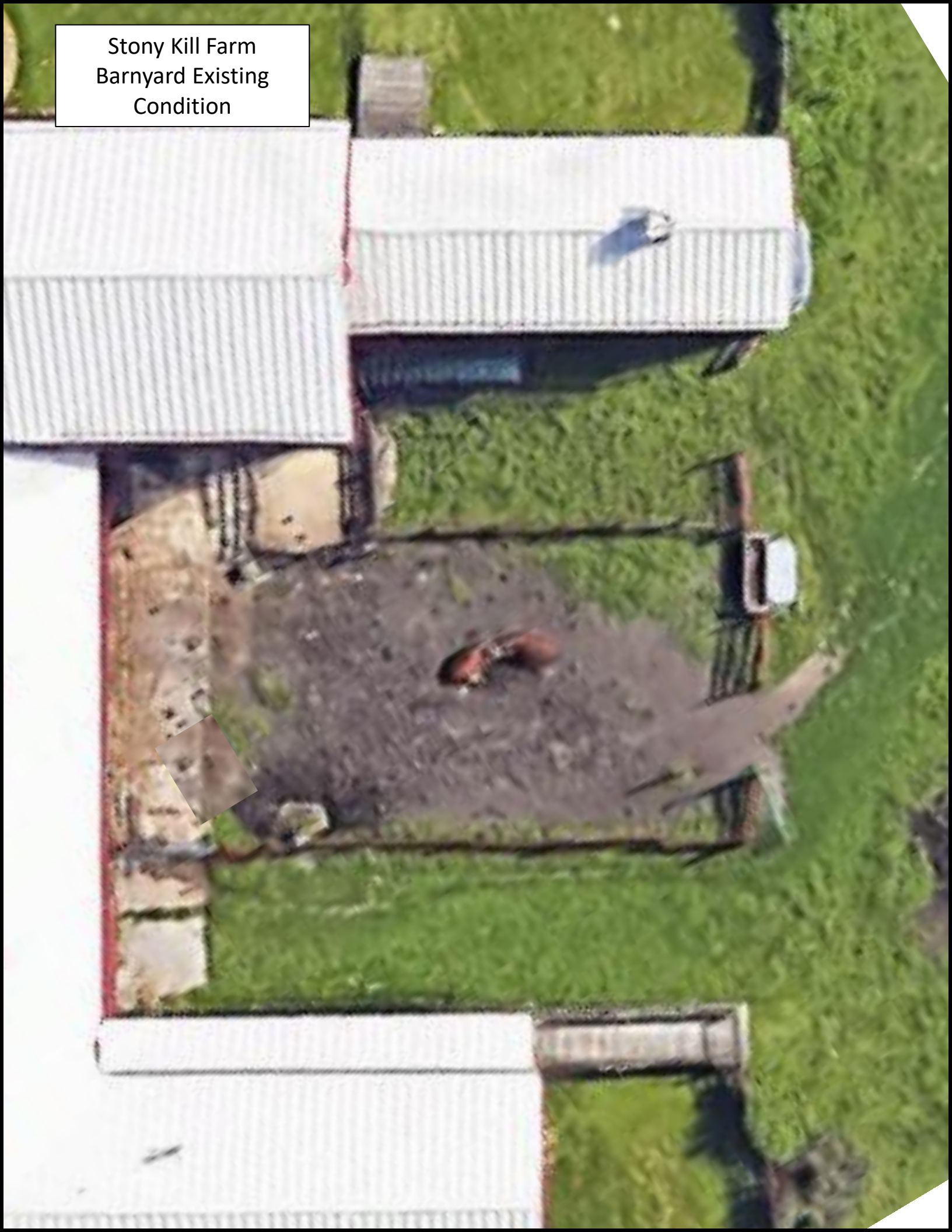


Stony Kill Farm  
Barnyard Existing  
Condition



# Stony Kill Farm Existing Conditions: Barnyard



# Stony Kill Farm Barnyard | New Water Lines & Spigots

Connect new water line to existing 3/4" PE water line (4' depth), incorporating underground shut-off valve. With manhole.

Location of existing frost-free water hydrant

Install approx 45' of new 3/4" ID black PE tubing, trenched & buried 4ft deep (yellow)

Install new frost-free water hydrant/spigots ([link to example](#)). Buried at 4' depth

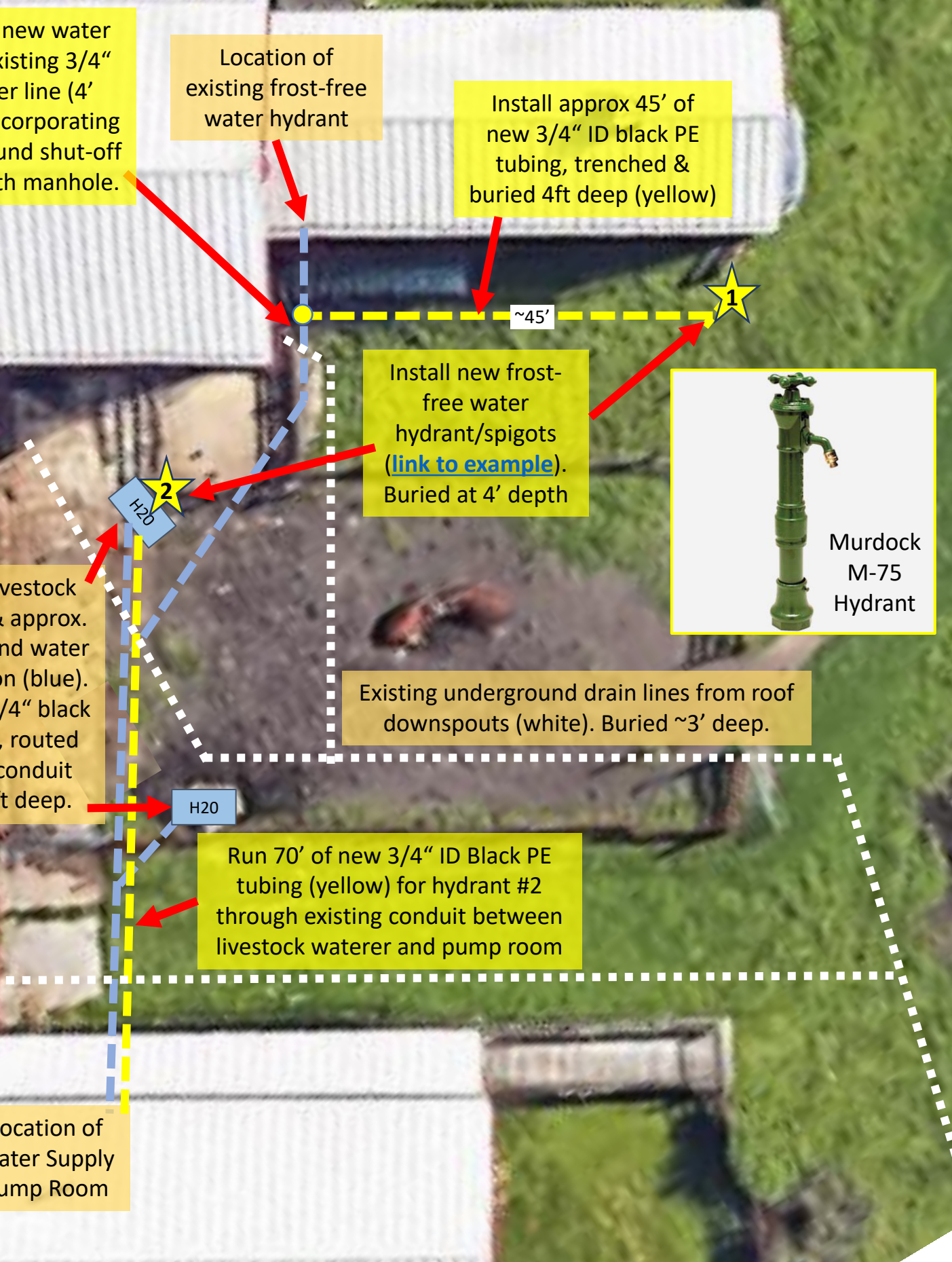


Existing livestock waterers & approx. underground water line location (blue). Lines are 3/4" black PE tubing, routed through conduit buried 4ft deep.

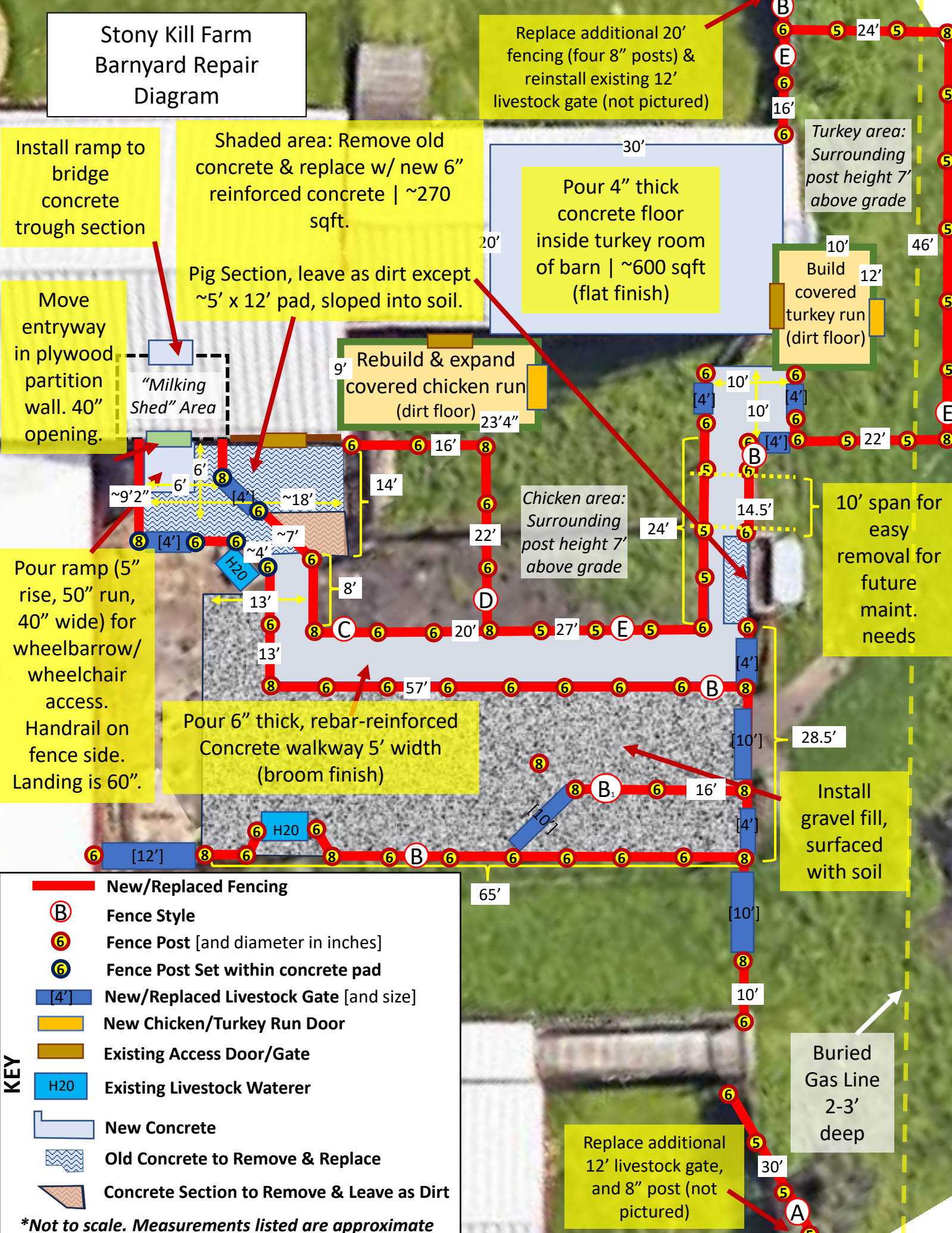
Existing underground drain lines from roof downspouts (white). Buried ~3' deep.

Run 70' of new 3/4" ID Black PE tubing (yellow) for hydrant #2 through existing conduit between livestock waterer and pump room

Location of Water Supply Pump Room



# Stony Kill Farm Barnyard Repair Diagram



Replace additional 20' fencing (four 8" posts) & reinstall existing 12' livestock gate (not pictured)

Install ramp to bridge concrete trough section

Shaded area: Remove old concrete & replace w/ new 6" reinforced concrete | ~270 sqft.

Pour 4" thick concrete floor inside turkey room of barn | ~600 sqft (flat finish)

Turkey area: Surrounding post height 7' above grade

Move entryway in plywood partition wall. 40" opening.

Pig Section, leave as dirt except ~5' x 12' pad, sloped into soil.

Rebuild & expand covered chicken run (dirt floor)

Build covered turkey run (dirt floor)

Pour ramp (5" rise, 50" run, 40" wide) for wheelbarrow/wheelchair access. Handrail on fence side. Landing is 60".

Pour 6" thick, rebar-reinforced Concrete walkway 5' width (broom finish)

Chicken area: Surrounding post height 7' above grade

10' span for easy removal for future maint. needs

Install gravel fill, surfaced with soil

Replace additional 12' livestock gate, and 8" post (not pictured)

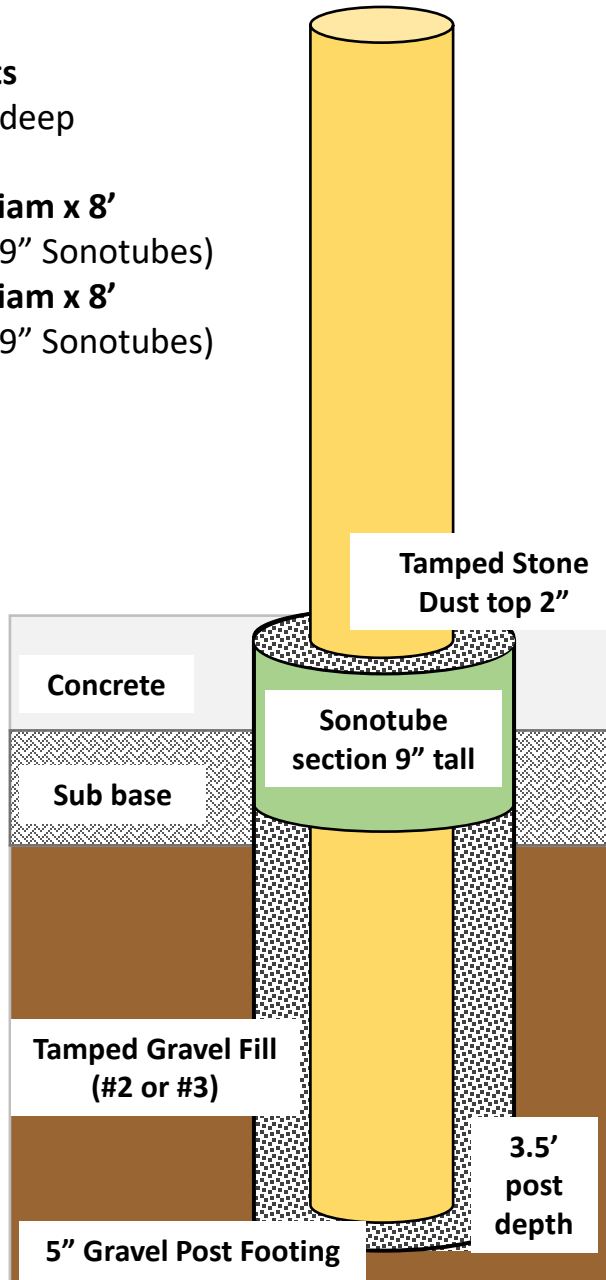
Buried Gas Line 2-3' deep

- KEY**
- New/Replaced Fencing
  - B Fence Style
  - 6 Fence Post [and diameter in inches]
  - 6 Fence Post Set within concrete pad
  - [4'] New/Replaced Livestock Gate [and size]
  - New Chicken/Turkey Run Door
  - Existing Access Door/Gate
  - H2O Existing Livestock Waterer
  - New Concrete
  - Old Concrete to Remove & Replace
  - Concrete Section to Remove & Leave as Dirt
- \*Not to scale. Measurements listed are approximate*

## Detail For Posts Set Within Concrete Pad

**6 total posts**  
buried 3.5' deep

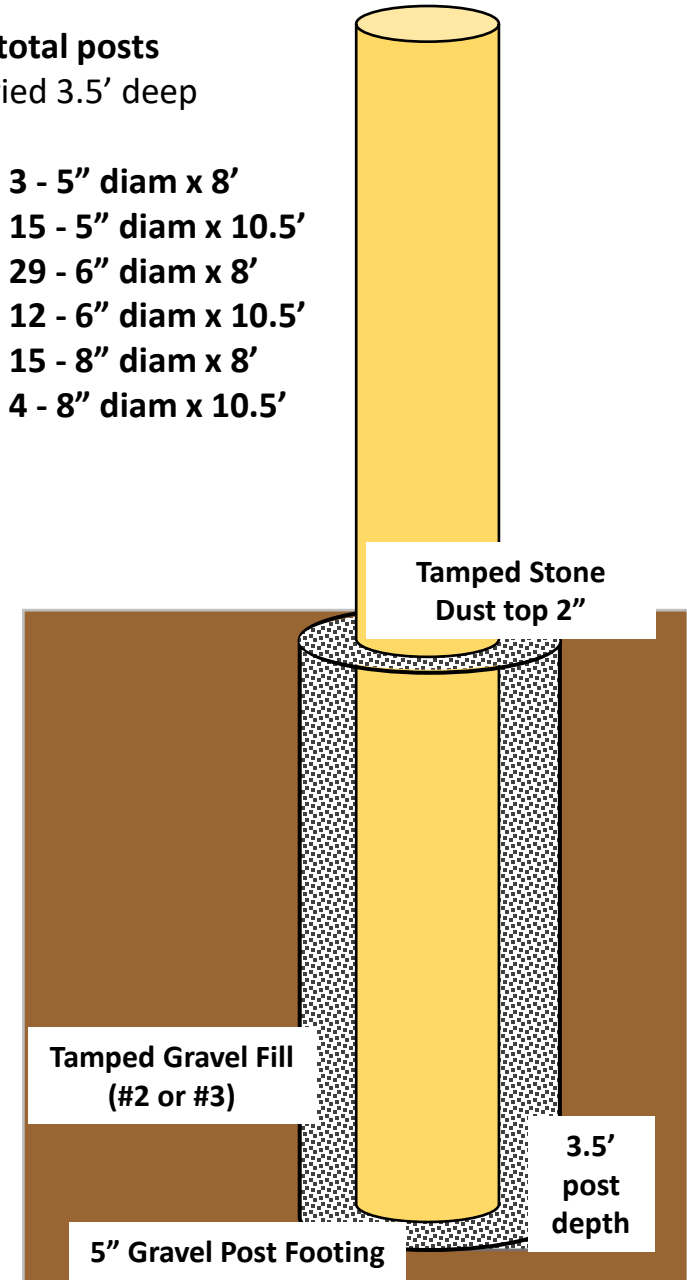
- 4 - 6" diam x 8'  
(12" x 9" Sonotubes)
- 2 - 8" diam x 8'  
(14" x 9" Sonotubes)



## Detail For Posts Set in Dirt

**78 total posts**  
buried 3.5' deep

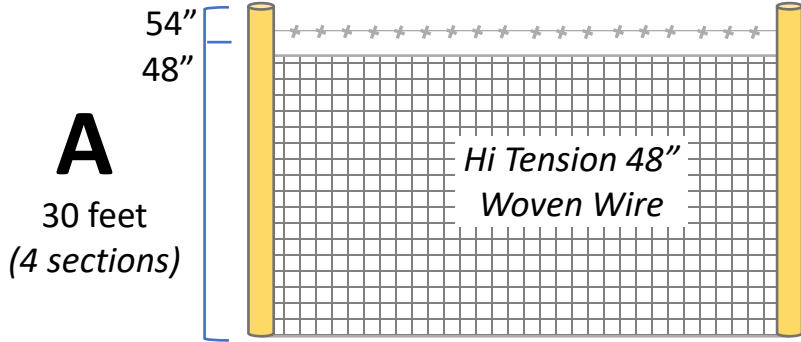
- 3 - 5" diam x 8'
- 15 - 5" diam x 10.5'
- 29 - 6" diam x 8'
- 12 - 6" diam x 10.5'
- 15 - 8" diam x 8'
- 4 - 8" diam x 10.5'



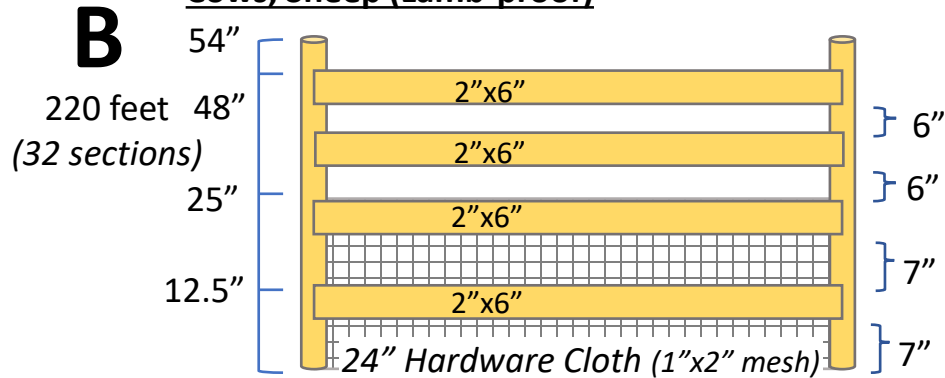
# Fence Style Detail

with estimated lengths needed

## Lower Pasture (Between ADA Ramp and Lower Gate)

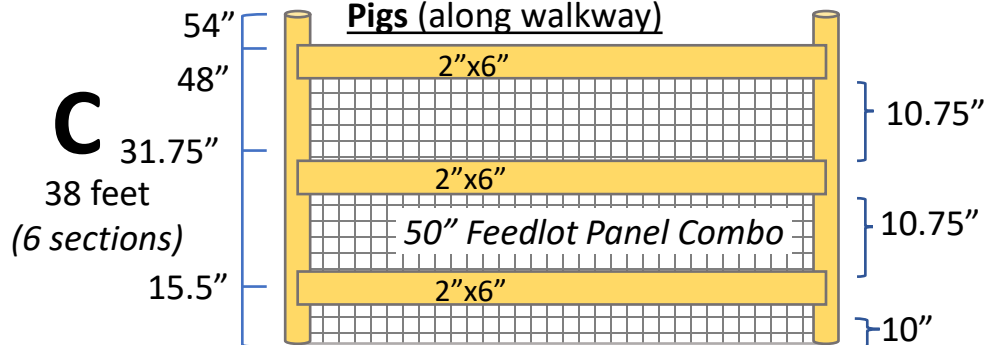


## Cows, Sheep (Lamb-proof)

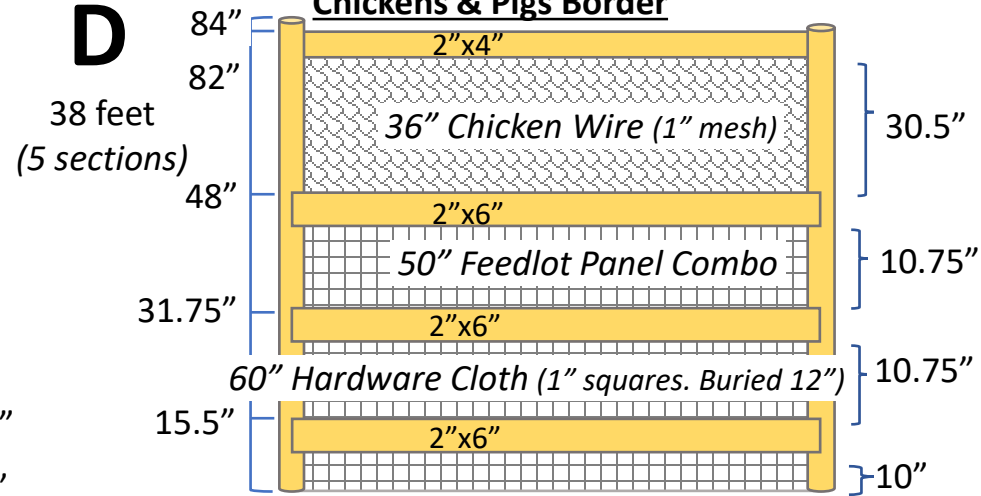


\*Variation B<sub>1</sub> is the same, but without the rolled wire (16' of the 222' total listed)

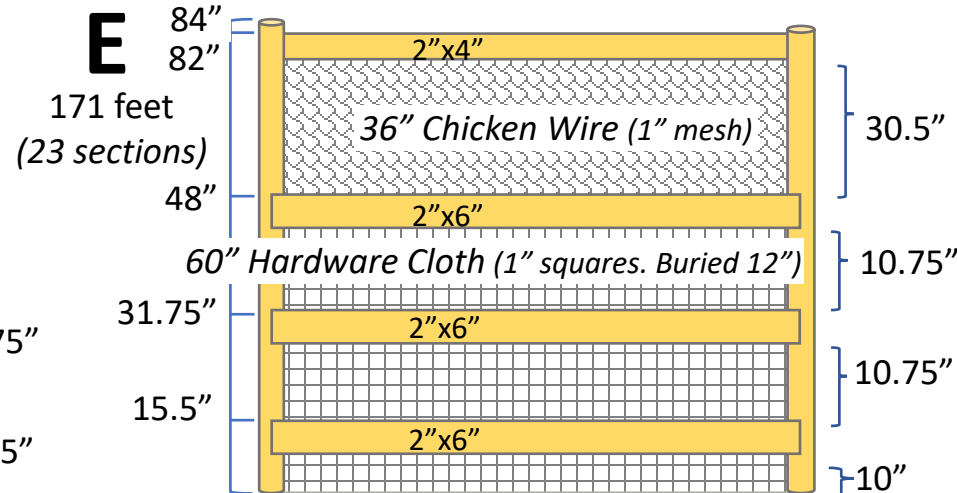
## Pigs (along walkway)



## Chickens & Pigs Border



## Chickens (along walkway) & Turkeys



# Stony Kill Farm Existing Conditions: Milking Shed Area



Cut new opening in plywood partition wall and close off the old opening.

Location new wheelchair/wheelbarrow ramp. Current curb height is 5"



Install ramp for wheelchair/wheelbarrow access across trough

# Stony Kill Farm Existing Conditions: Covered Chicken Run (dirt floor)





# Chicken Run

(Pressure Treated Lumber)

2"x6"x10' rafters, 16" on center (19 total, outer 2)

Lower header made of 1/2" plywood sandwiched between two 2"x8"x12' boards (2), fastened to rafters w/ hurricane straps (19)

2"x6"x14 1/2" blocking between rafters (18)

Upper header made of 1/2" plywood sandwiched between two 2"x8"x12' boards (2), bolted into barn beams. Fastened to rafters w/ joist hangers (19)

2"x4"x8' purlins spaced every 24" (18)

2"x2"x20 1/2" blocking on end rafters (10)

2"x6"x8'6 1/2" top plates/nailers (3)

18" rise

Roof Pitch: 2:12

4'

3' wide coop doors, framed from 2"x4"x7'6" (4 each)

2"x6"x8'10 1/2" studs for nailers (3)

2"x6"x8'6 1/2" bottom plates/nailers (3)

6"x6"x7'6" support posts (3), anchored to piers w/ galv. Simpson post bases

9'

12'

11'4"

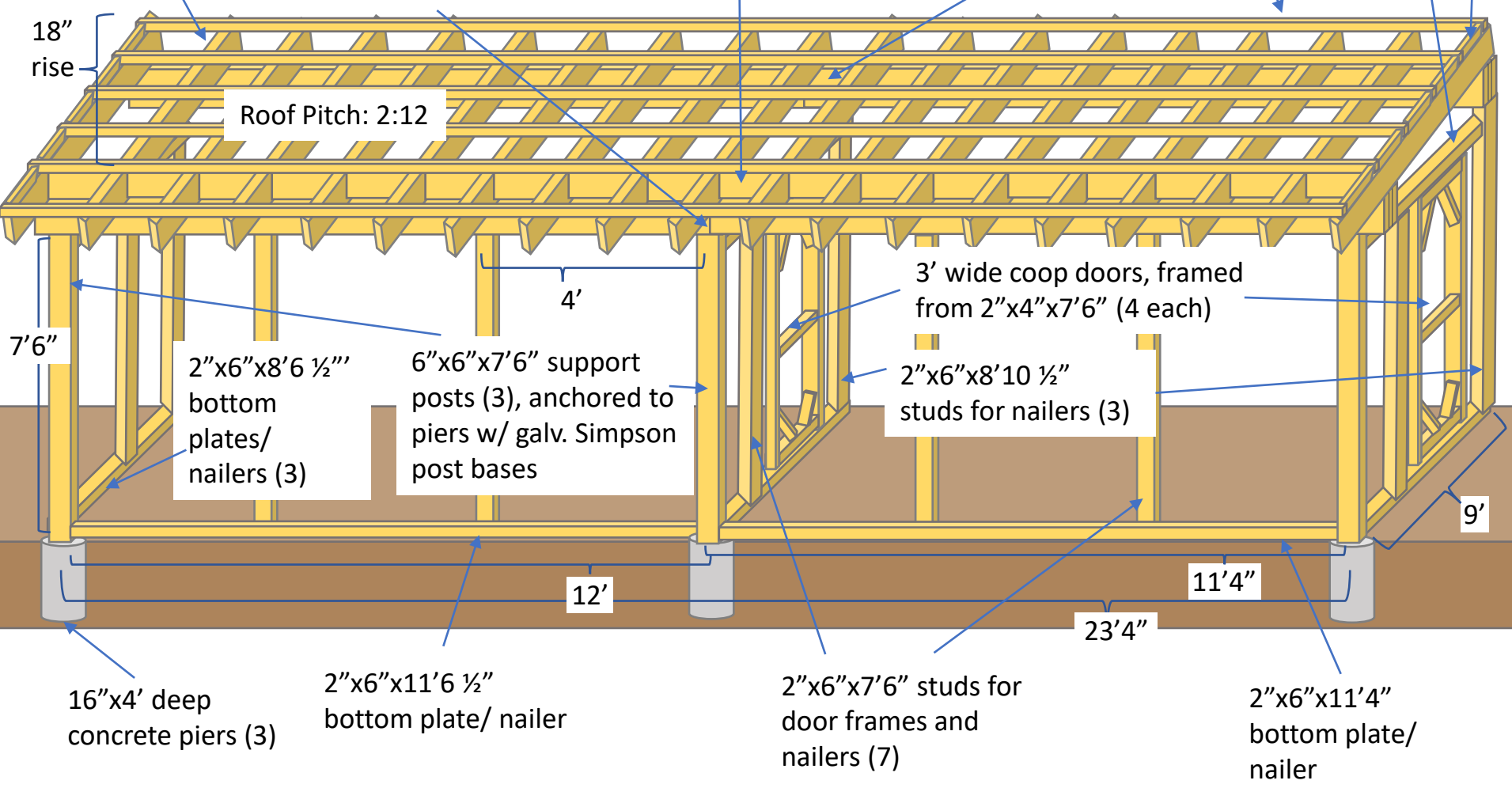
23'4"

16"x4' deep concrete piers (3)

2"x6"x11'6 1/2" bottom plate/nailer

2"x6"x7'6" studs for door frames and nailers (7)

2"x6"x11'4" bottom plate/nailer

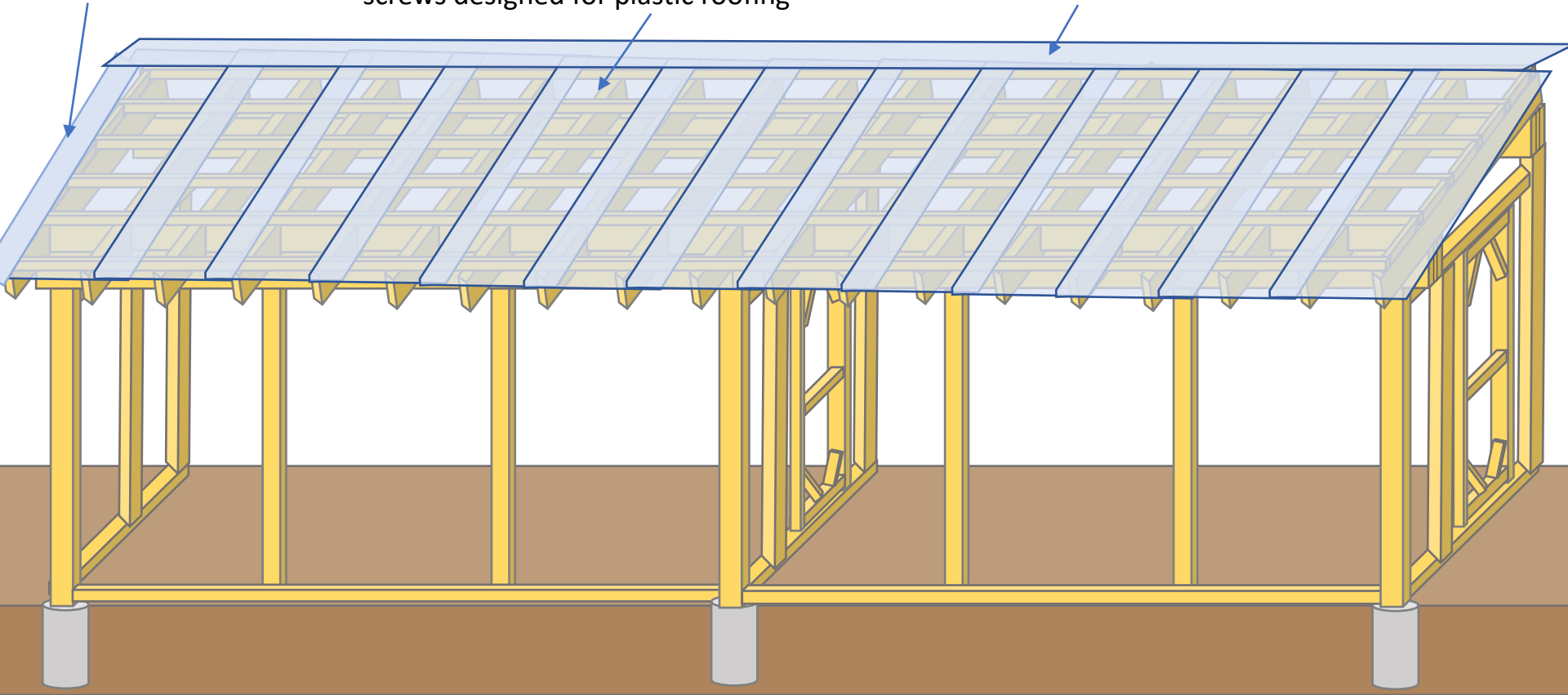


# Chicken Run

Side ridge  
flashing / Side  
ridge cap (10')

26"x12' clear polycarbonate roofing  
panels (13), installed with  
recommended closure strips and wood  
screws designed for plastic roofing

Wall connector flashing (24')

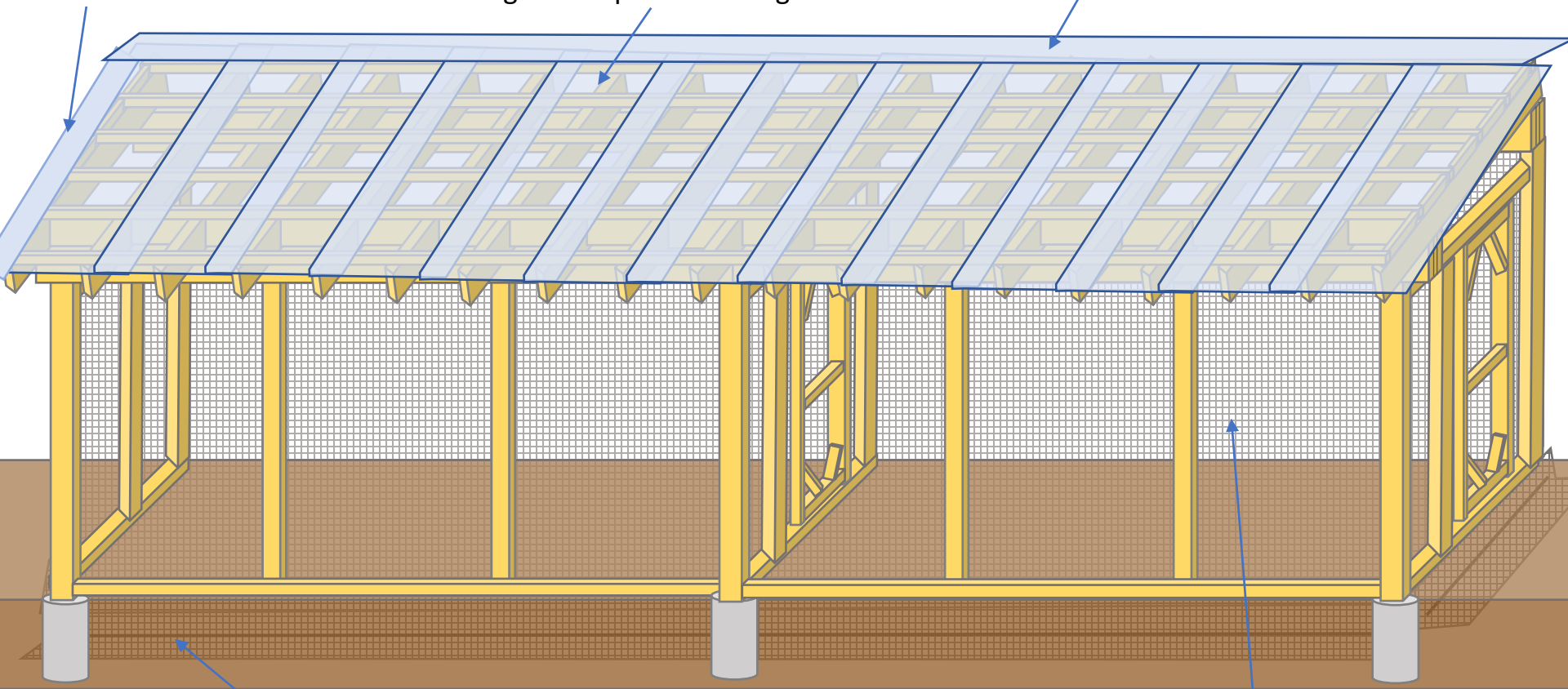


# Chicken Run

Side ridge flashing / Side ridge cap (10')

26"x12' clear polycarbonate roofing panels (13), installed with recommended closure strips and wood screws designed for plastic roofing

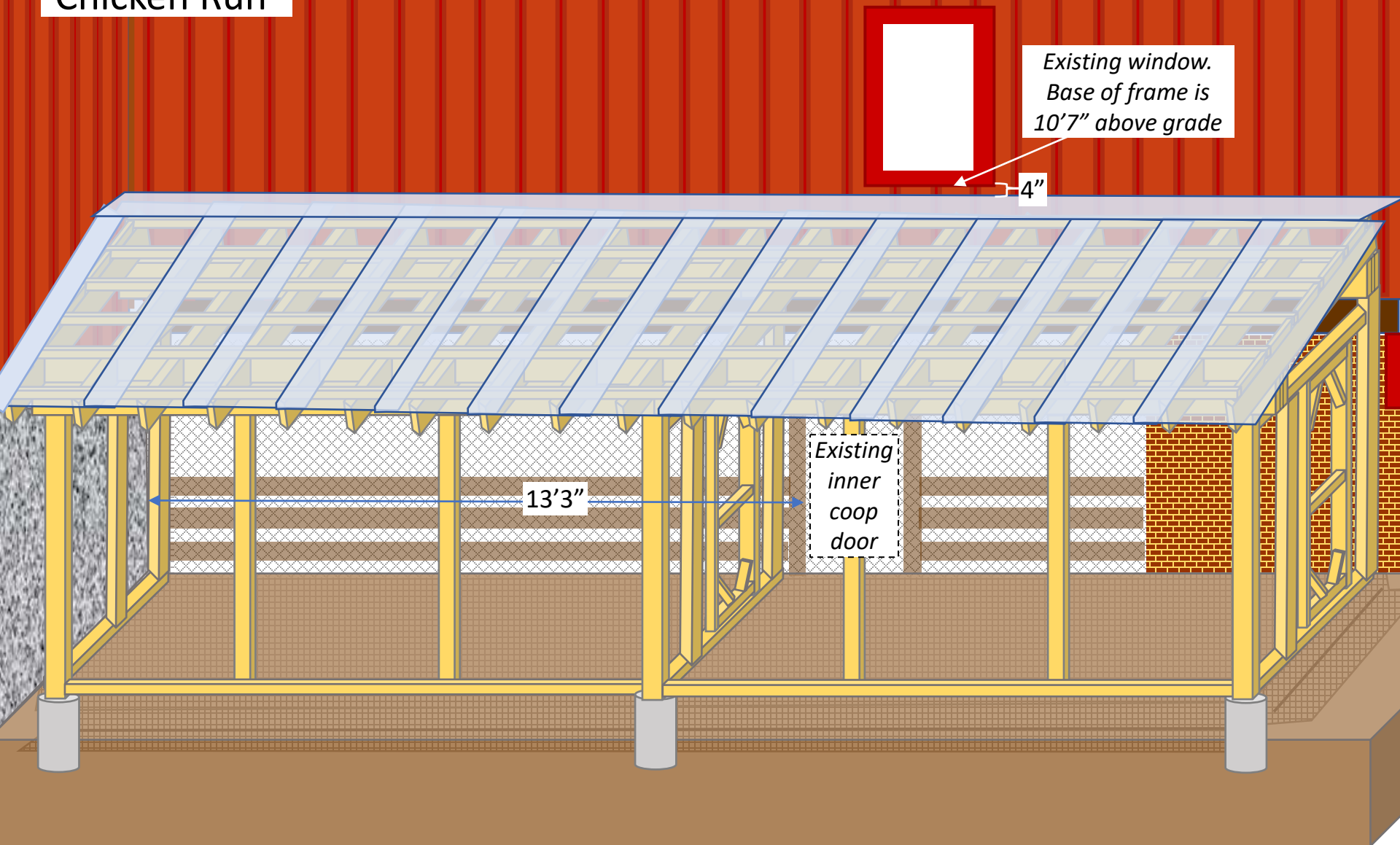
Wall connector flashing (24')



Buried Hardware Cloth Skirt: buried 10" & bent into L-shape, extending out 18"

Hardware Cloth Sides: 1/2 in. galv. mesh squares, 19 gauge, 48" (requires approx. 108' long roll)

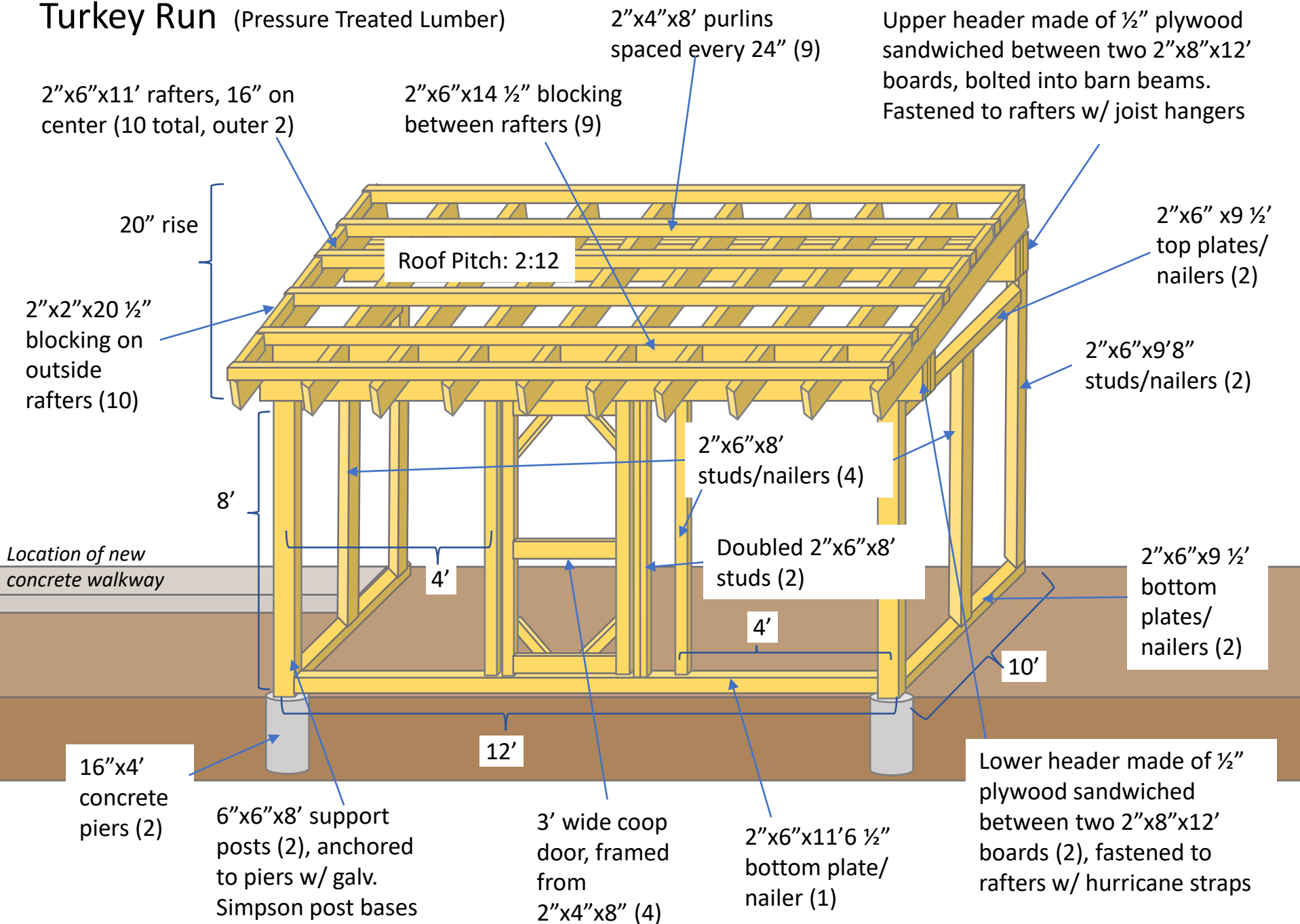
# Chicken Run



Stony Kill Farm Existing Conditions: Location to Construct Covered Turkey Run  
(dirt floor)



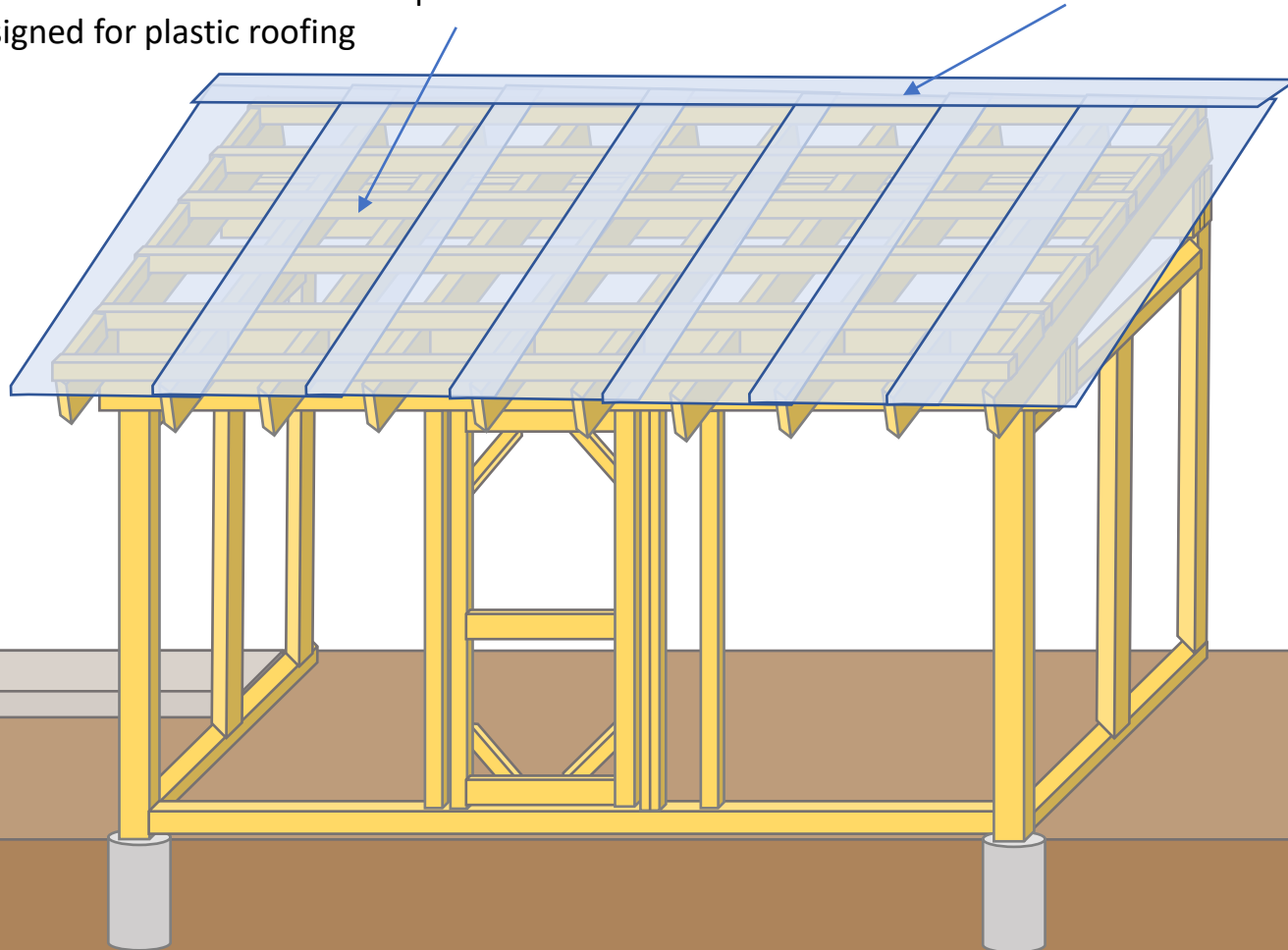
# Turkey Run (Pressure Treated Lumber)



# Turkey Run

26"x12' clear polycarbonate roofing panels (7), installed with recommended closure strips and wood screws designed for plastic roofing

Wall connector flashing (12')

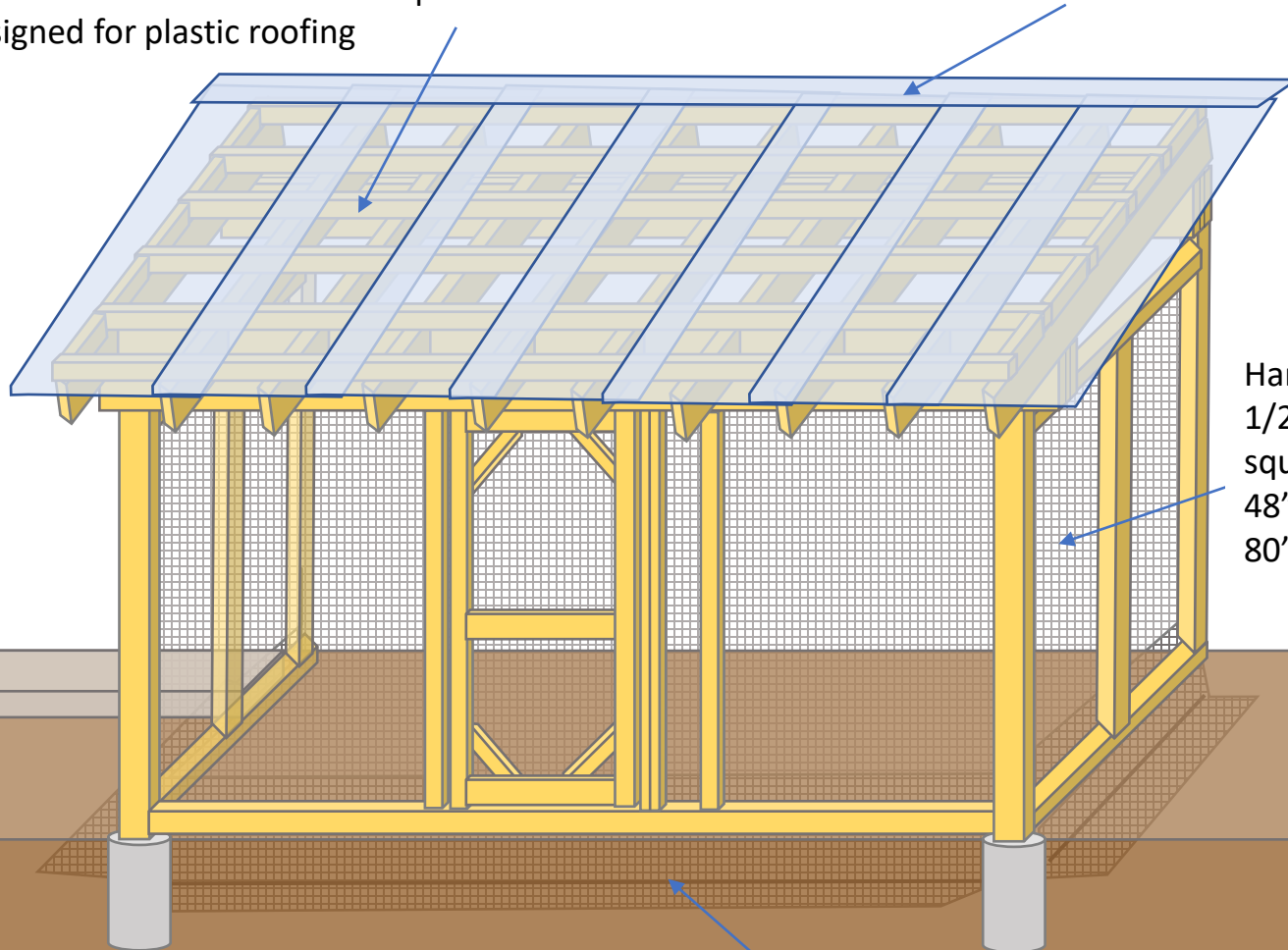


*Location of new concrete walkway*

# Turkey Run

26"x12' clear polycarbonate roofing panels (7), installed with recommended closure strips and wood screws designed for plastic roofing

Wall connector flashing (12')



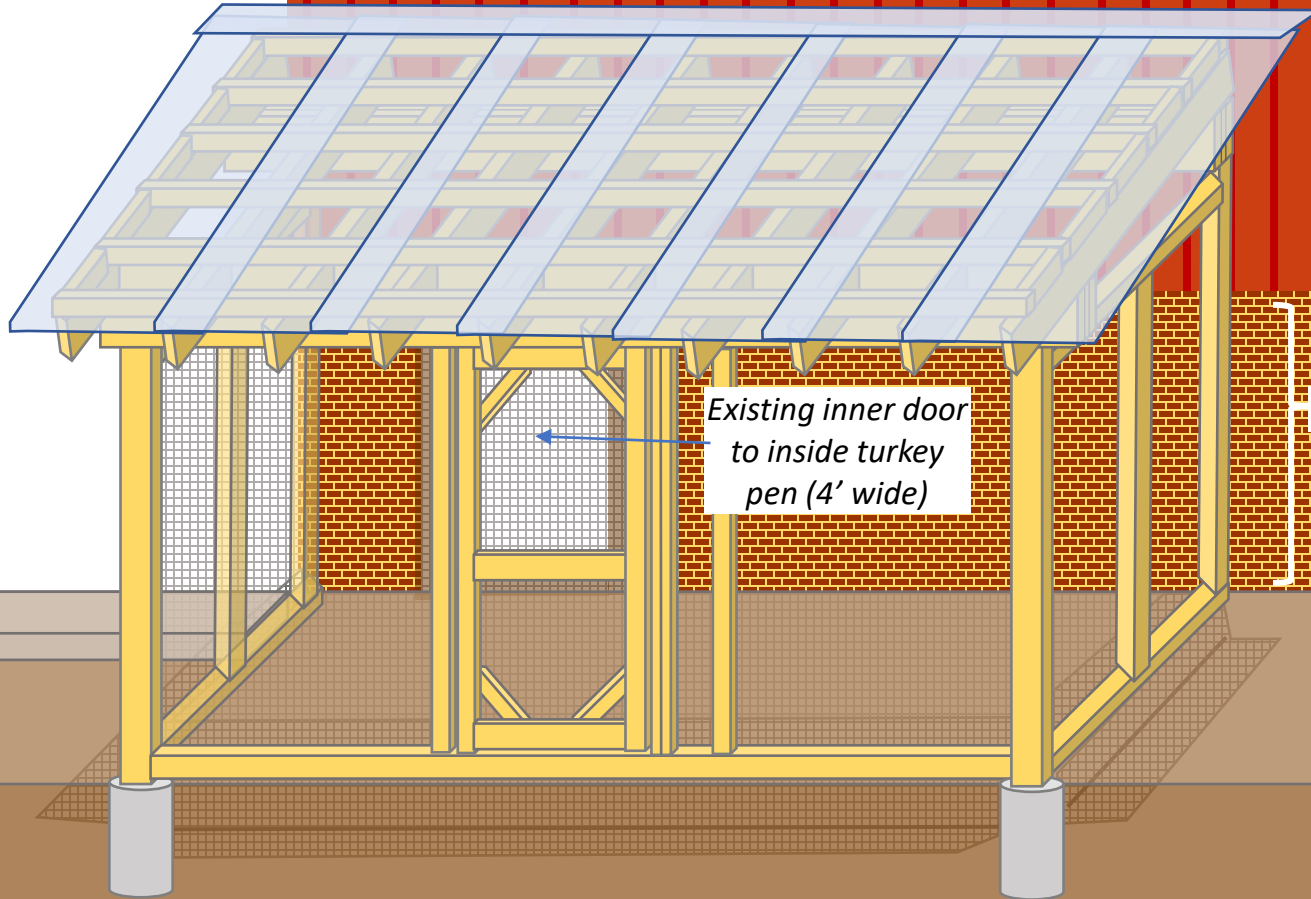
Hardware Cloth Sides:  
1/2 in. galv. mesh  
squares, 19 gauge,  
48" (requires approx.  
80' long roll)

*Location of new  
concrete walkway*

Buried Hardware Cloth Skirt: buried 10"  
& bent into L-shape, extending out 18"



# Turkey Run



Existing inner door  
to inside turkey  
pen (4' wide)

5'8"

Location of new  
concrete walkway

# Stony Kill Farm Existing Conditions: Turkey Room



Stony Kill Farm Existing Conditions: Additional Fencing To Be Replaced (contd)



Stony Kill Farm Existing Conditions: Section of Old Concrete to Remove & Replace



<b>Stony Kill Farm - Barnyard Renovation Project Supply List (draft)</b>				
<b>Fencing Posts - Locust</b>	<b>QTY</b>	<b>Diam</b>	<b>Length</b>	<b>Notes</b>
	3	5"	8'	
	33	6"	8'	
	17	8"	8'	
	15	5"	10.5'	Could also use 6" diam
	12	6"	10.5'	
	4	8"	10.5'	
<b>Fencing Boards - Pressure Treated</b>	<b>QTY</b>	<b>Dimen.</b>	<b>Length</b>	<b>Notes</b>
	230	2"x6"	8'	
	28	2"x4"	8'	
<b>Fencing - Specialty Hardware</b>	<b>QTY</b>	<b>Diam</b>	<b>Length</b>	<b>Notes</b>
Sonotube sections	15	12"	9"	36" total length of Sonotube needed
Sonotube sections	5	14"	9"	18" total length of Sonotube needed
Screws to attach fence boards to posts	1550			
<b>Fencing Rolled Fencing &amp; Wire Mesh</b>	<b>Qty</b>	<b>Height</b>	<b>Length</b>	<b>Notes</b>
Hardware Cloth Roll (For Chicken/Turkey Runs)		48"	200'	1/2" mesh squares, 19 gauge, galvanized
Hardware Cloth Roll for bottom of outside chicken area fencing		48"	150'	1/2" mesh squares, 19 gauge, galvanized
Feedlot Combo Panels	10	52"	76'	16'x52" Feedlot Combo Panels (5 panels for pigs, 5 to line existing wood deck adjacent sheep)
Chicken Wire for outside chicken pens and top covering (1" holes)		48"	750'	For lower half of vertical fencing
Rolled Woven Wire Fencing for Lambs		48"	102'	To be cut in half lengthwise for bottom of lamb-proof fencing
Hi Tension Woven Wire Lower Pasture Fencing		48"	30'	
Wire Rope/Cable for Poultry Roof Support		1/4" diam	193'	Wire Rope Cable, 7 x 19, Galvanized, 1/4" diam.
Black Scaffolding Debris Netting for Roof of Chicken/Turkey outside area				Associated Scaffolding (Durham, NC) EA Netting Debris Black Non- FR 1/4" Hole
<b>Chicken/Turkey Runs - Pressure Treated Lumber</b>	<b>QTY</b>	<b>Dimen.</b>	<b>Length</b>	<b>Notes</b>
	5	6"x6"	8'	support posts
	7	2"x6"	12'	outside rafters & bottom plates
	13	2"x6"	8'	vertical nailers
	15	2"x6"	10'	vertical nailers, top plates, bottom plates
	12	2"x4"	8'	coop doors
	5	2"x2"	8'	blocking between purlins
	5	2"x6"	8'	blocking between rafters
	12	2"x8"	12'	headers
	27	2"x4"	8'	purlins
	25	2"x6"	12'	rafters
Exterior Plywood	2	1/2"	4'x8' sheets	plywood for headers. 9 8'x7.5" lengths needed

<b>Chicken/Turkey Runs - Specialty Hardware</b>	<b>QTY</b>	<b>Dimen.</b>	<b>Length</b>	<b>Notes</b>
Hurricane Straps	29			for 2x6 rafters attaching to 2x8 header
Joist Hangers	29			for 2x6 rafters attaching to 2x8 header
Simpson Post Bases	5			for 6x6 PT post on 16" diam concrete pier
Bolts Attaching Headers to Barn				
<b>Chicken/Turkey Runs - Roof Materials</b>	<b>QTY</b>	<b>Dimen.</b>	<b>Length</b>	<b>Notes</b>
Clear corrugated polycarbonate roof panels	20	26"	12'	
Polycarbonate Side Ridge Flashing/Side Ridge Cap	3	4' lengths	10'	3 - 4' pieces needed
Polycarbonate Wall Connector Flashing	9	4' lengths	36'	9 - 4' pieces needed
Fasteners	337		2"	Fasteners appropriate for polycarbonate roofing such as 2" Woodtite EPDM washered fastener
Horizontal Closure Strips (plastic)	108	24" strips	216'	Approx 108 24" long closure strips required
Vertical Closure Strips	21	24" strips	42'	Approx 21 24" long closure strips required
<b>Plumbing - Frost Free Hydrant Installation</b>	<b>QTY</b>	<b>Dimen.</b>	<b>Length</b>	<b>Notes</b>
Tubing		3/4" ID	115'	Black PE Water line tubing
Hydrants	2	3/4" Pipe		Murdock M-75 Hydrant or similar
Underground Shut-off Valve	1	3/4" Pipe		
Manhole for Underground Shut-off Valve	1			