COUNTRY LIVING BYTHE NUMBERS

By Ryan Booth

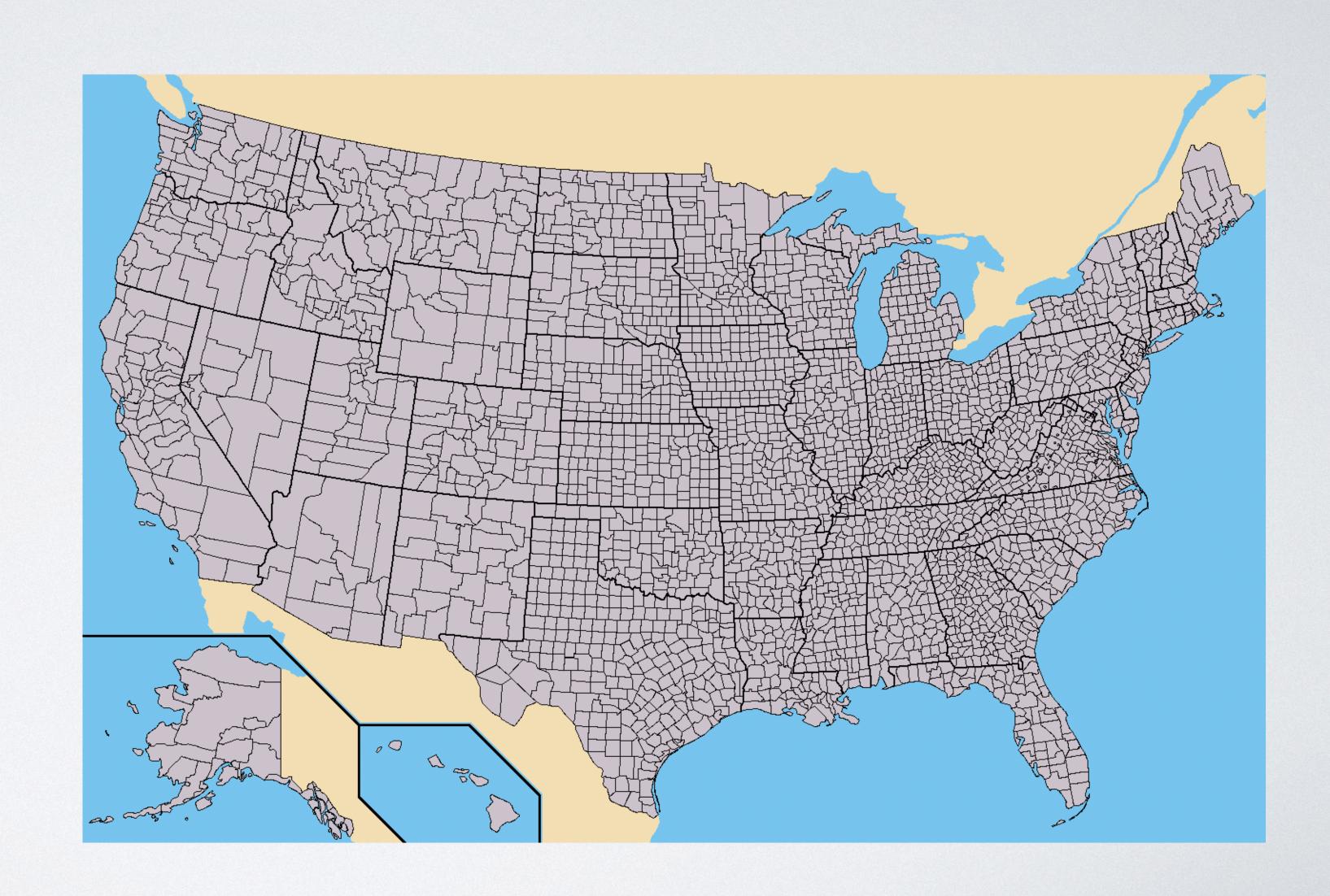
2 RULES

- #1 Do your own research
- #2 What is your time worth?

· I'm probably wrong

LOCAL RULES

- 50 States
- 3,143 Counties
- 19,502 Incorporated Cities
- 29,705 Fire Departments
- 3,300 Utilities (200 major)
- 13,800 School Districts



- International Building Code 730 pages
- National Electric Code 1000 pages
- Mechanical Code 550 pages
- Plumbing Code 500 pages
- · Zoning/Land Development Laws/Local jurisdiction rules

Shasta County, CA "ShC"

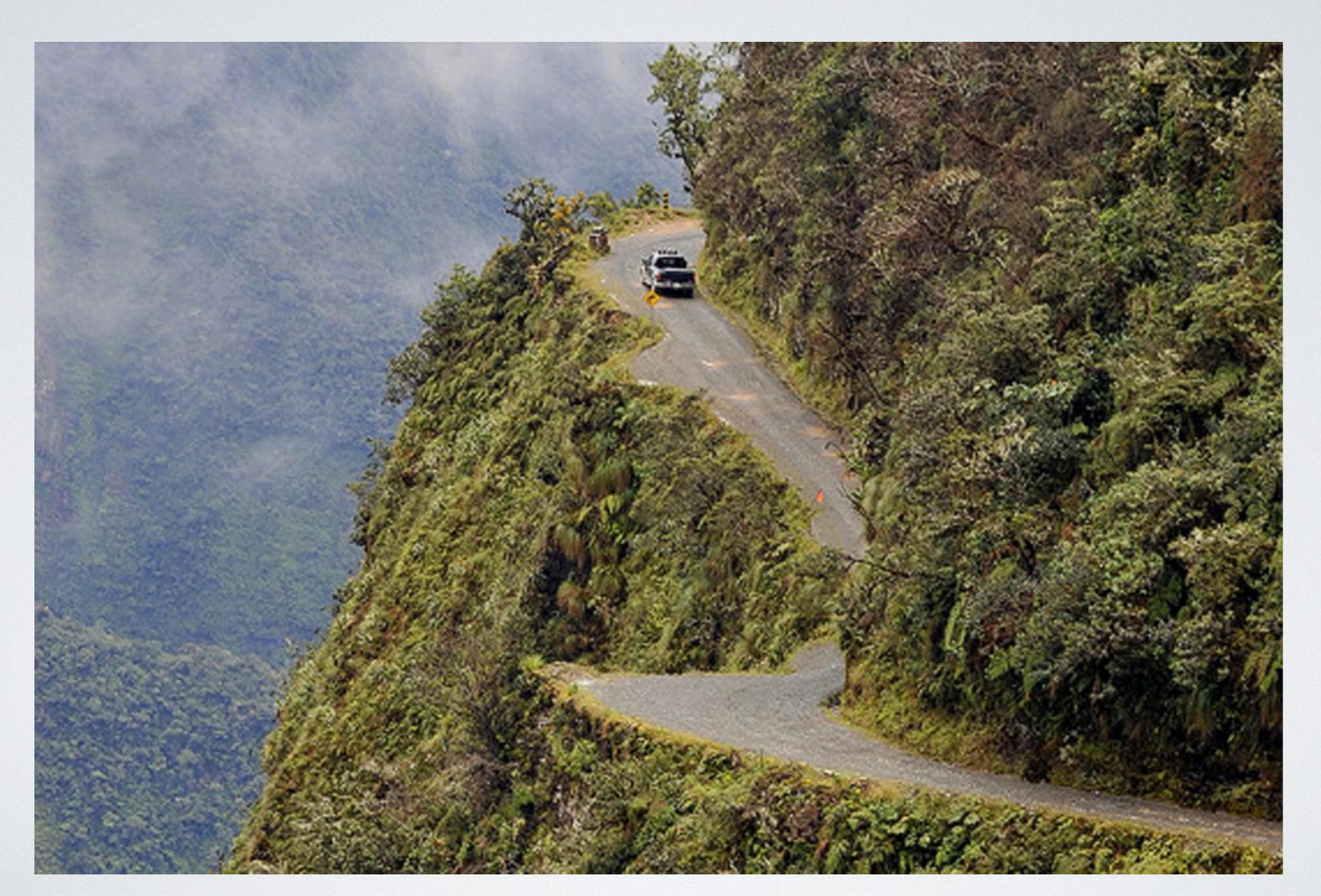
Anderson County, TX "AnC"



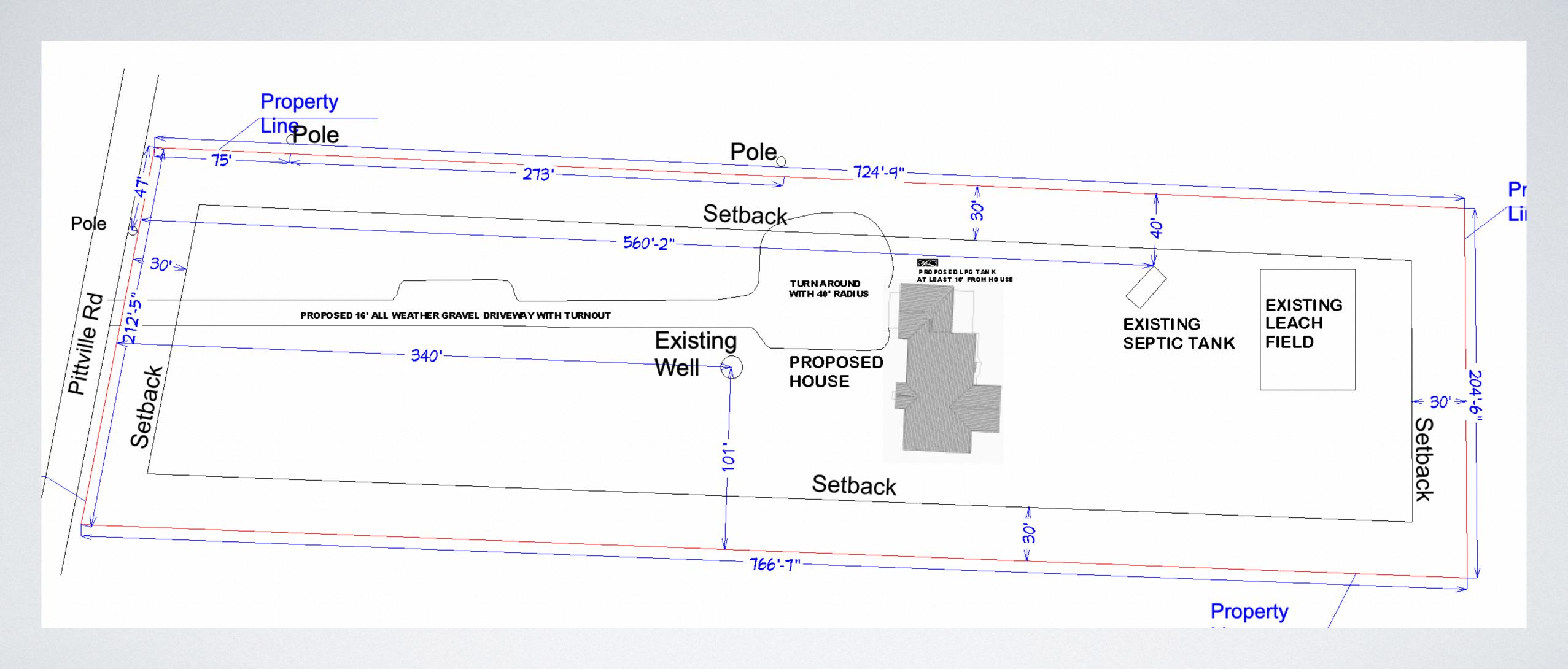
Developing the Land

- Access (Legal and Practical)
- Water in (Well/City Water)
- Water out (Septic/Sewer)
- Power (Utility/Off-grid)

Access.... Practical?



10,000 sq ft of Gravel Driveway



ShC 350 ft Driveway = \$12,000

Gravel \$1.5-3 sq ft

Asphalt \$4-5 sq ft

Concrete \$6-7 sq ft

Culvert \$1500

AnC 350 ft driveway = \$800



Water In



ShC 150ft Well = \$9,700

Well \$20 - \$60 per ft

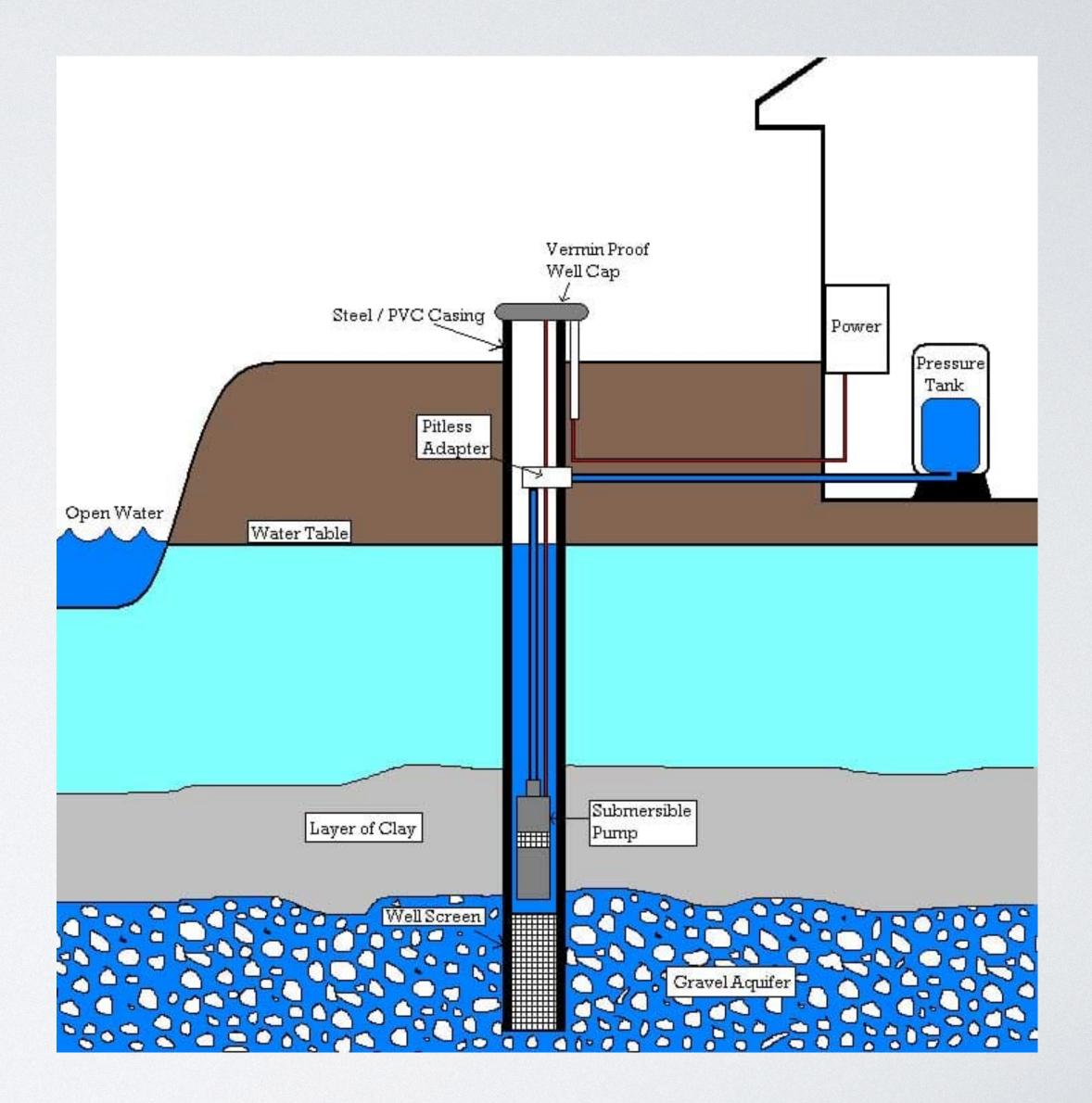
Pump 1hp, \$1000 - \$1500

Pipe \$3 - \$5 per ft

Pump controller/saver \$400

Wire \$1.5 per ft

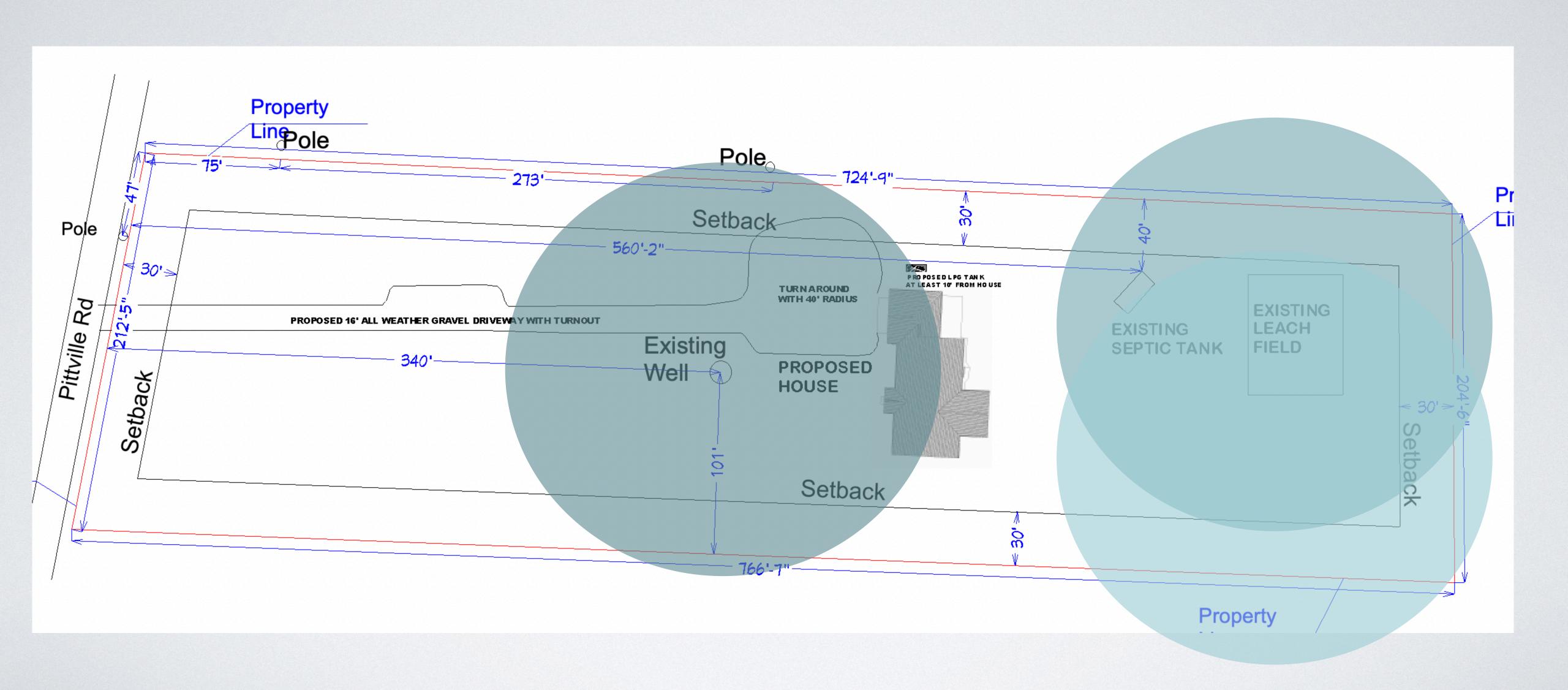
AnC 50ft Well = \$5,000



Water Out



Setbacks



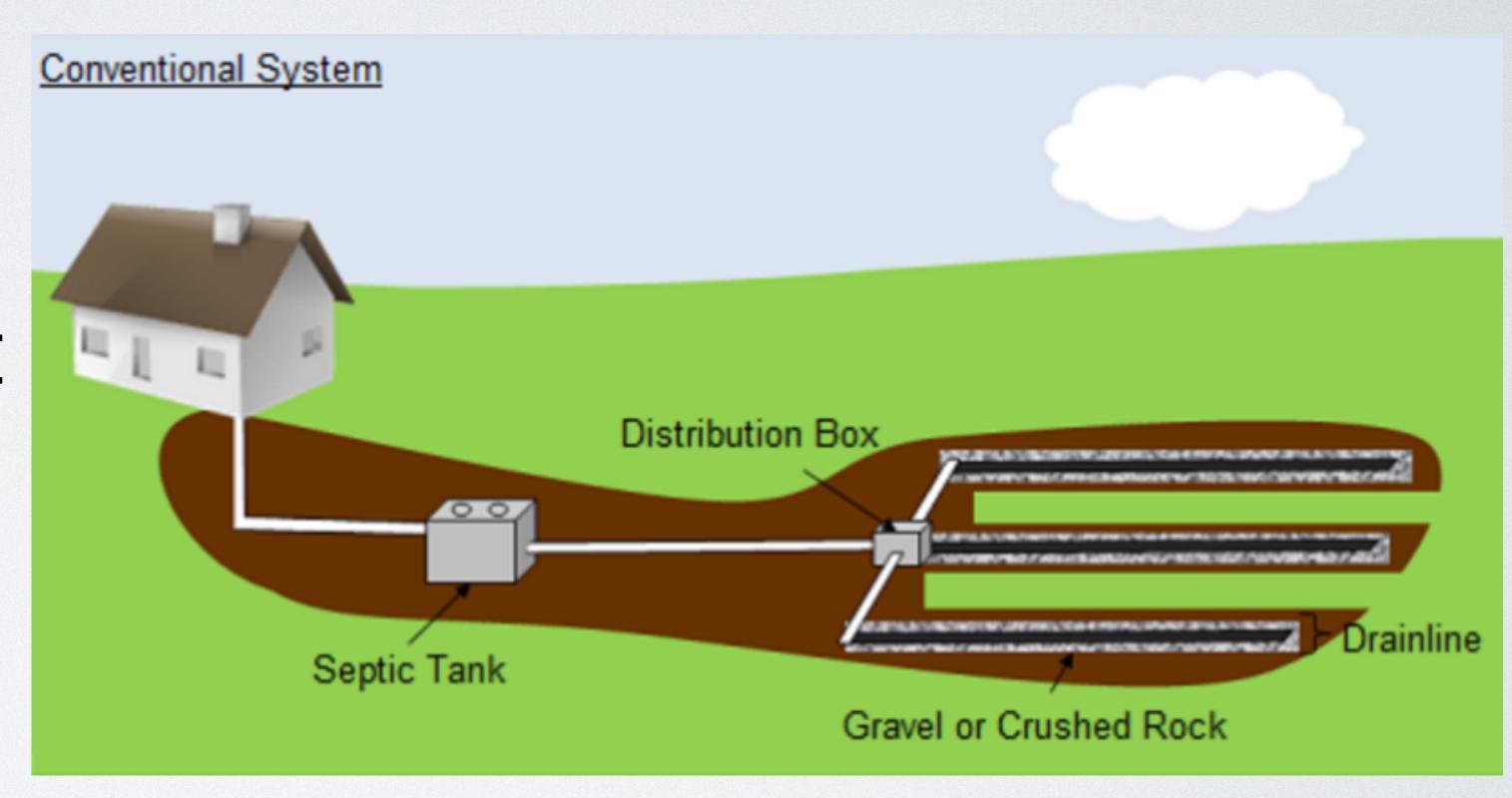
ShC 300ft of lines \$6400

AnC 80ft of lines \$3600

Septic Tank \$1800

Leach field \$8-\$10 per ft

Excavation \$1200



Power



ShC 2-Poles 350ft \$20,000+

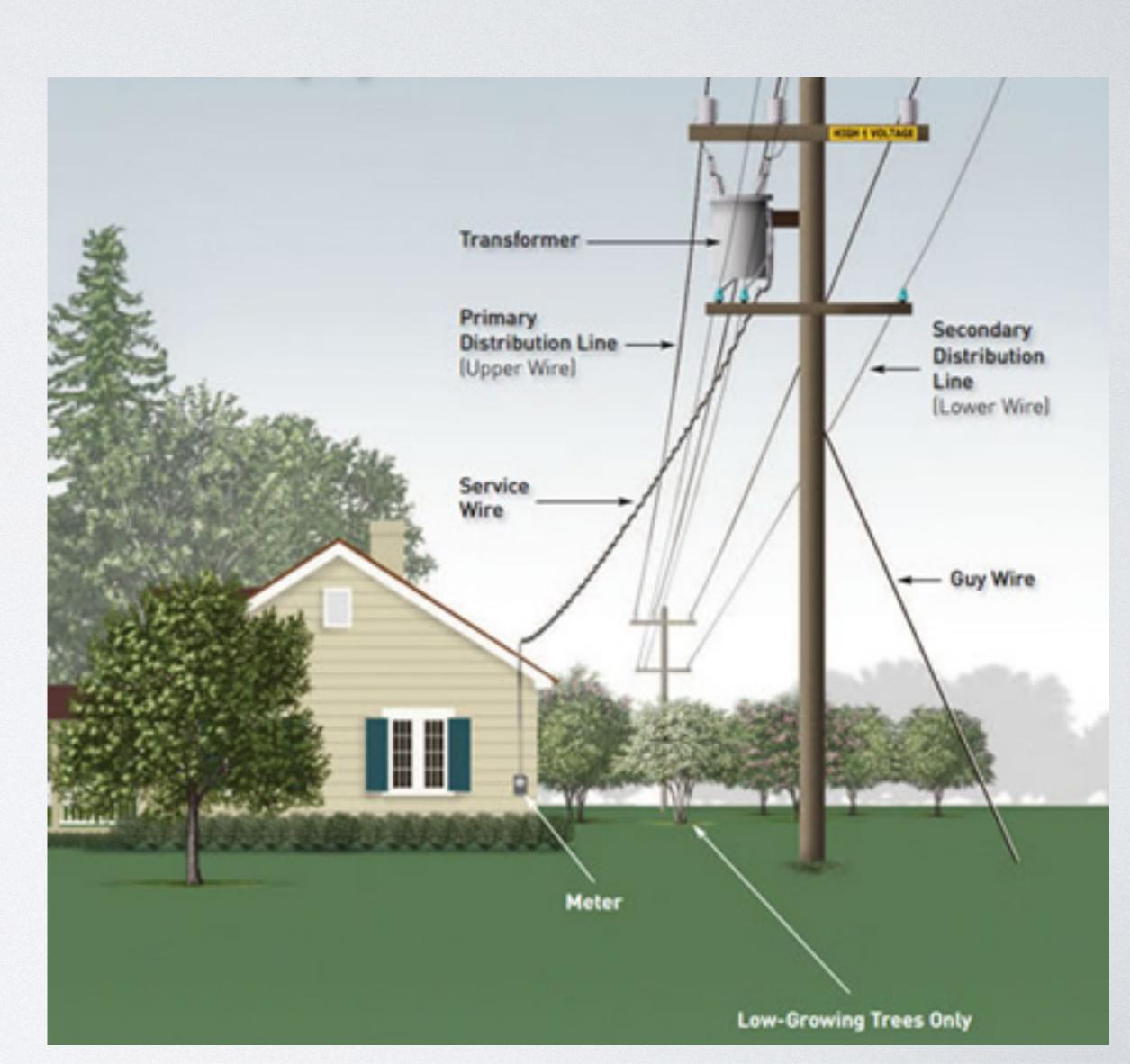
AnC 2-Poles 350ft \$900

Utility \$1k - \$15k per pole

Panel and Meter base \$500

Wire and conduit \$8-\$10 per ft

Off-grid Solar \$50,000



ShC \$4,000

Grading

AnC \$2,000



LPG (Propane) Tank

ShC Purchase Tank \$2900

AnC Rent Tank \$400 (lines)



Water Storage

ShC Water Storage \$6000

2500 gal. Steel tank \$5000

High Pressure Booster Pump \$1000

Steel Tank and Booster pump needed for fire protection

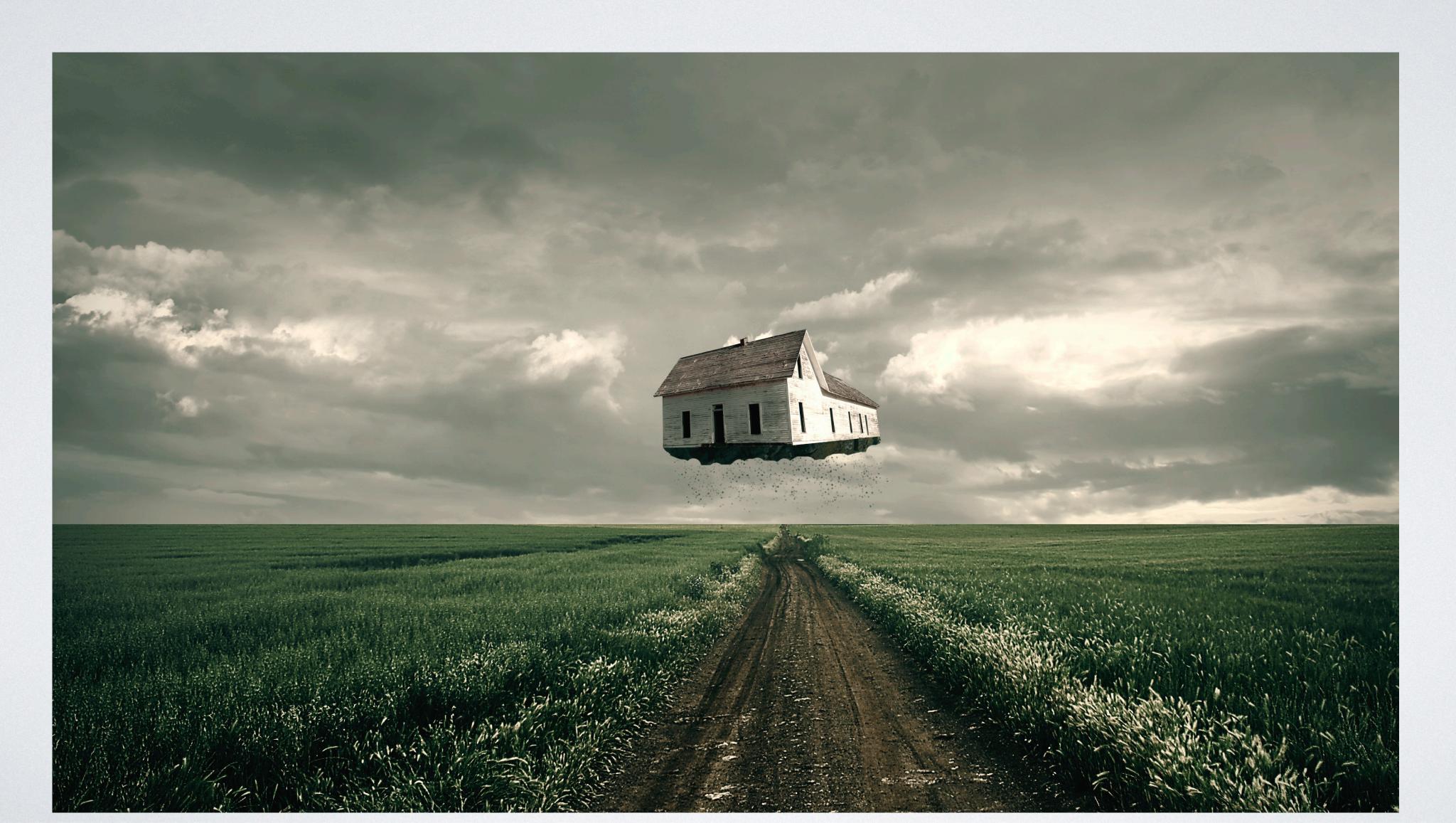
AnC Water Storage \$0



Land Development Costs

ShC Total \$61,000

AnC Total \$12,700



Build the Structure



Foundation \$7,400



Framing \$22,000



Roofing \$5000 Siding \$5500 Doors and Windows \$6500 Insulation \$4500 Drywall \$3500



"The Box"

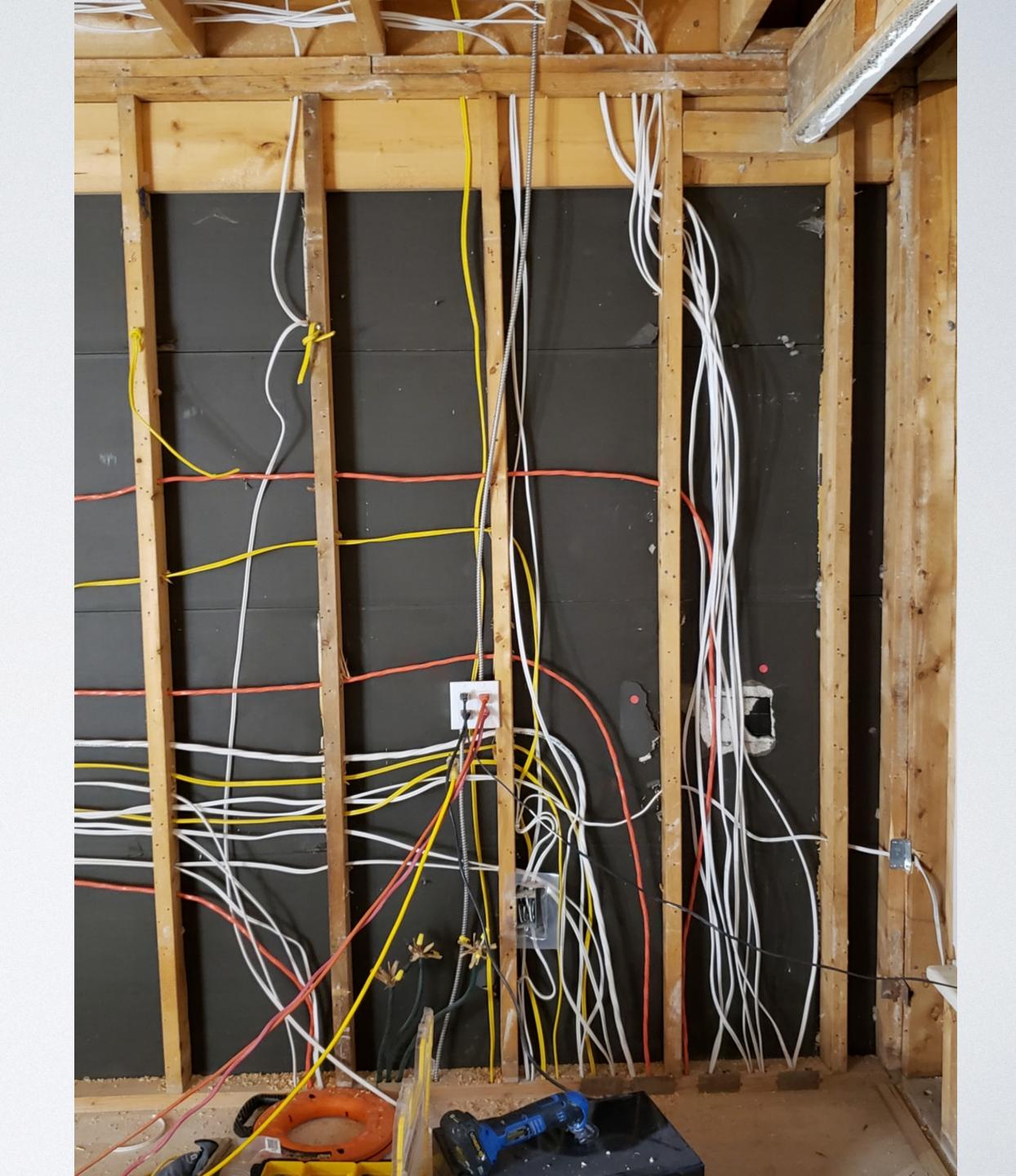
Foundation \$7400
Framing \$22,000
Roofing \$5000
Siding \$5500
Doors and Windows \$6500
Insulation \$4500
Drywall \$3500

Total \$54,400



Inside "The Box"

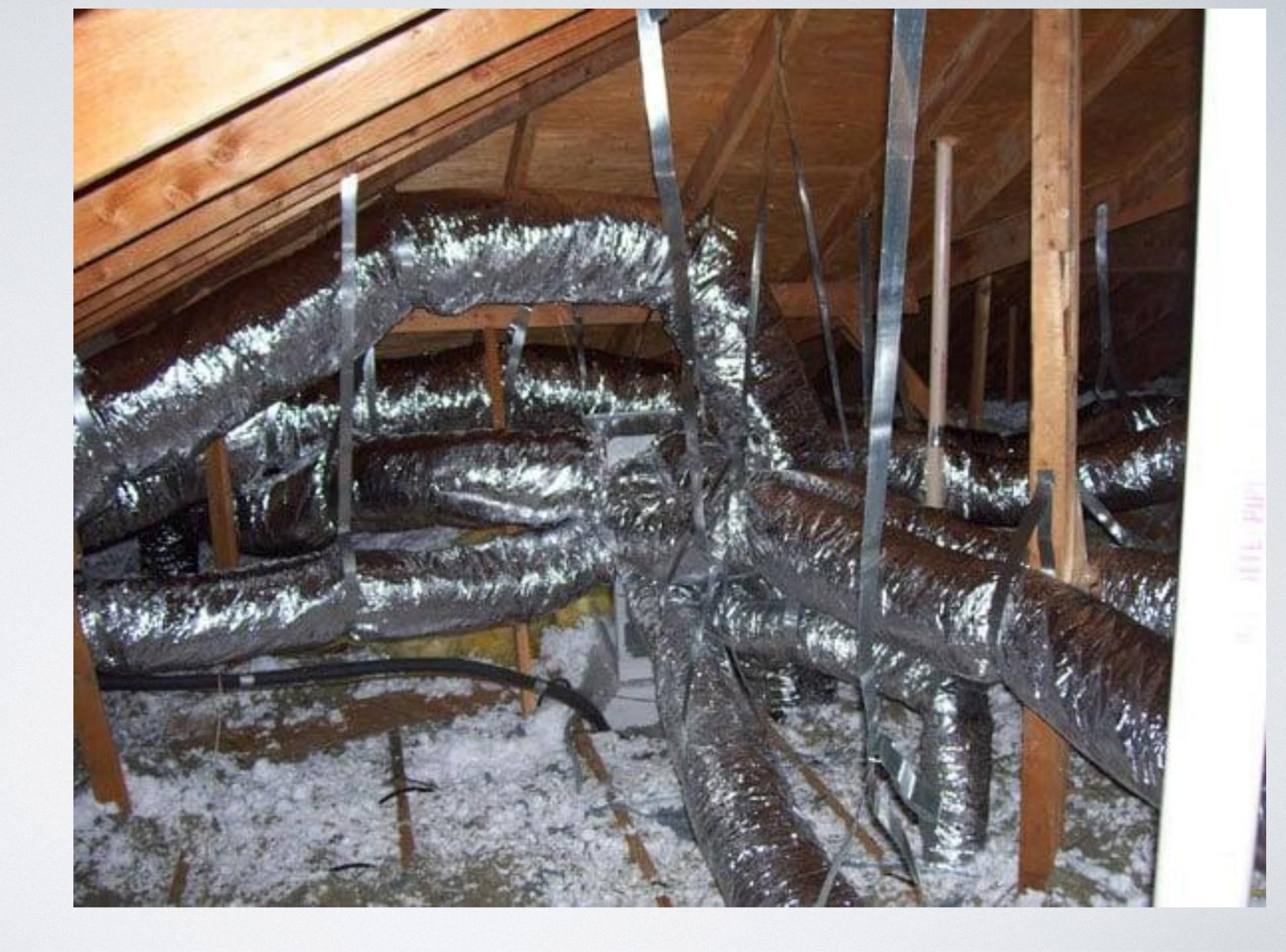
Electrical \$4500



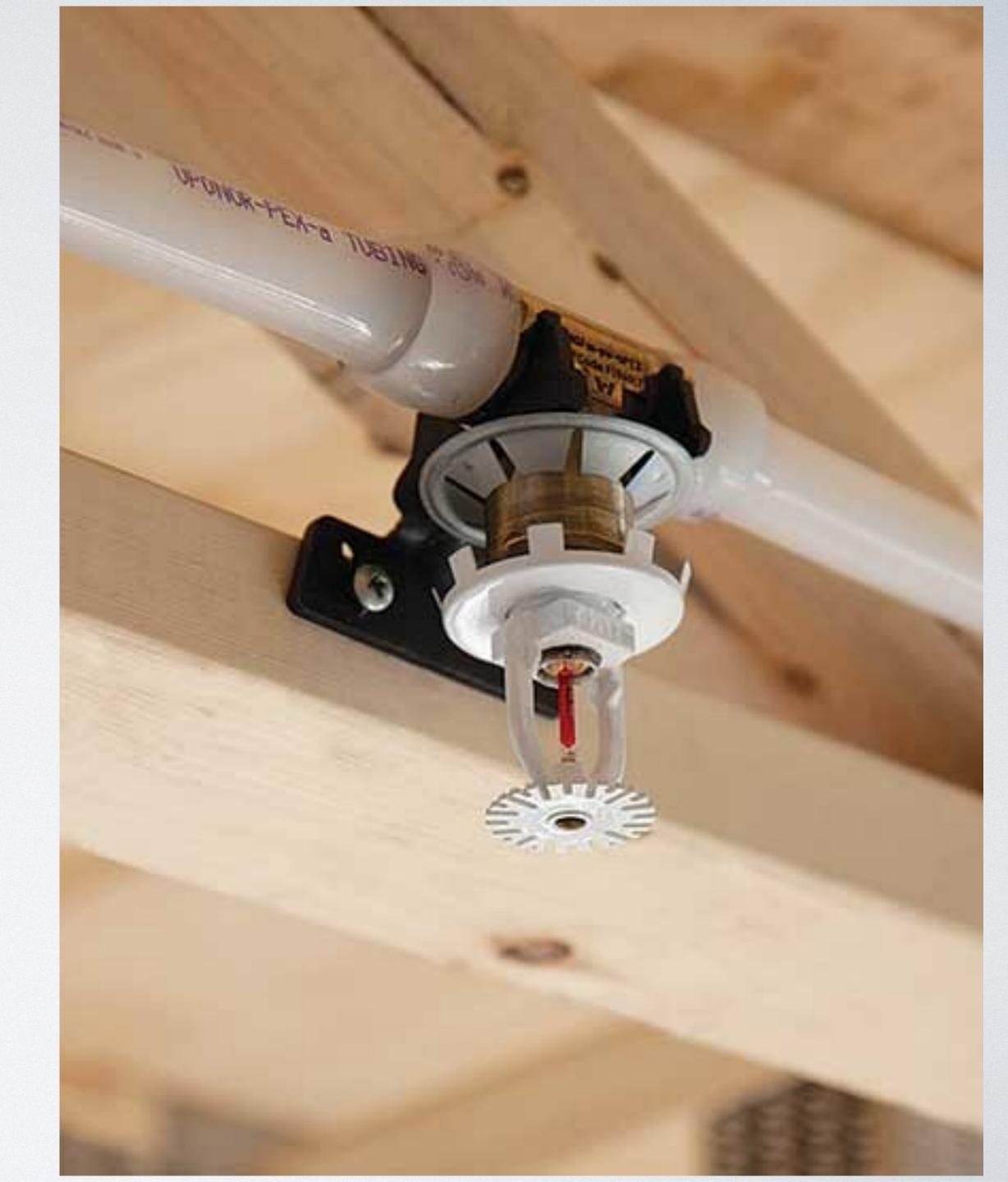
Plumbing & Gas \$5000



Heat and A/C \$6,500



Fire Sprinklers \$7000



Cabinets and trim \$9,300



Everything inside "The Box"

Electrical \$4800
Plumbing and Gas \$5000
HVAC \$6500
Sprinklers \$7000
Paint \$2000
Flooring \$5000
Cabinets and trim \$9300
Steps and stoops \$1000
Appliances \$1000

Total \$39,100



House Labor Cost \$62,900

\$30 Per hour 15%-20% Worker Comp 7% Social Security 5% Unemployment

Real cost -\$38.50 per hour

Running Totals

ShC

Development \$61,000 House \$93,500

Total \$154,500

Labor \$62,900 for house

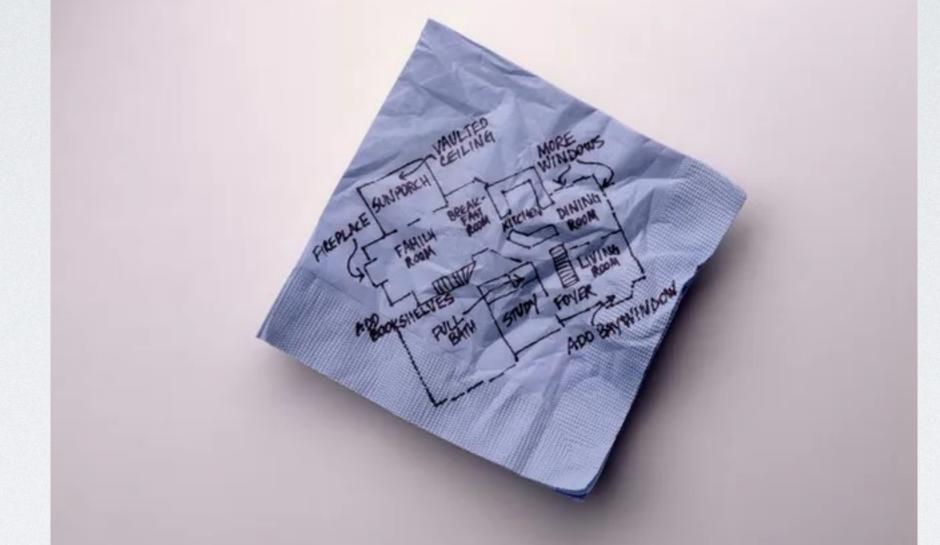
AnC

Development \$12,700 House \$84,500

Total \$97,200

Labor \$45,000 for house

Plans, Permits and Fees



ShC

Plans

Engineering \$3000

Plans \$8400

Course of construction insurance \$2000

Subtotal \$13,400

AnC

Plans \$1500

Course of Construction insurance \$2000

Subtotal \$3,500

Permits and Fees

ShC

AnC

Grading permit (might be needed) \$ 6000

\$0

Application Filling Fee \$1400
Building Fee \$2000
Processing Fees \$1200
School fees \$6800
Traffic & Environmental Impact fees \$4000
Parks Fee \$3000

Permits subtotal \$18,400

Final Totals

ShC

Development \$61,000 House \$93,500 Plans/Permits \$31,800

Total \$186,300 - \$110 sq ft

Labor \$62,900 for house

Grand total \$249,200

Contract price \$400,000

AnC

Development \$12,700 House \$84,500 Plans \$3500

Total \$100,700 - \$60 sq ft

Labor \$45,000 for house

Total \$145,700

Contract Price \$250,000

Shop/Garage



Cost for 30x40 Shop

Foundation \$7500
Framing \$14,000
Siding \$3500
Roofing \$3500
Garage door \$2000
Insulation and drywall \$3500
Electrical \$1500
Paint \$800

Total Material cost \$36,300 = \$30 sq ft

Rough Labor Estimate \$12 sq ft = \$14,400

Shop total \$50,700 = \$42 sq ft

What is your time worth?

Managing a complete house project 2,000+ hours

Your time while working on the Project \$10 per hour

Remodel



Remodel

Cost savings

Regulatory economics

Being able to finance the property

Mobile Homes





#I Container Homes

Bad Ideas



Bad Idea #2 Tiny Homes





Tiny Home vs Small House Cost

Tiny Home 8x30 - 240 sq ft \$25,000-\$35,000 Land Development \$13,000 Land Purchase Price \$30,000 Total \$ \$75,000 Small House 26x30 - 780 sq ft \$45,000-\$50,000 Land Development \$13,000 Land Purchase Price \$30,000 Total \$90,000

Bad Idea #3 "Alternative" Building technologies

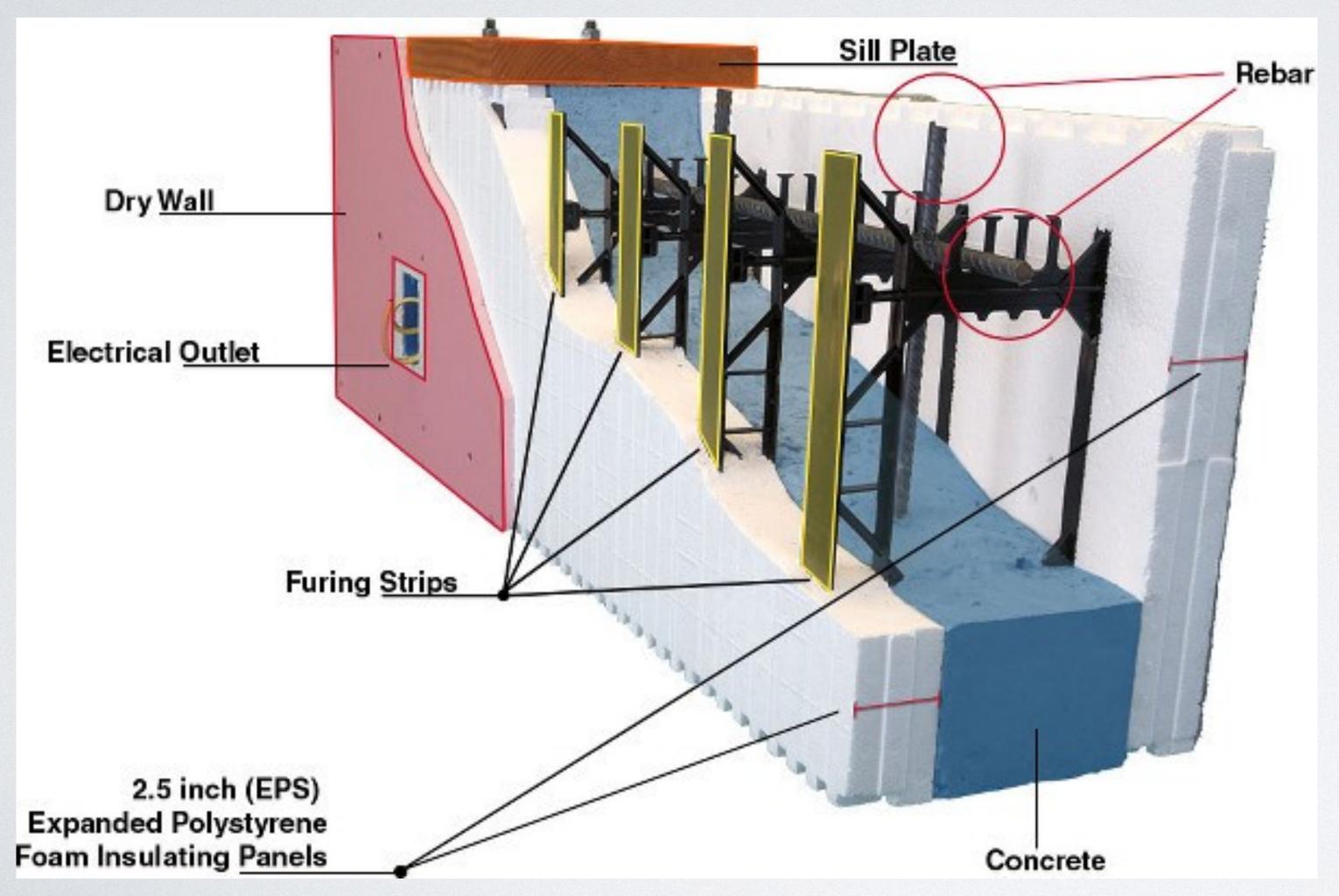


Bad idea #4 - Prefab/Kit Homes etc.



A Good Idea...

ICF - Insulated Concrete Forms





Good YouTube Channels

"The Essential Craftsman"
Check out the Spec House playlist

"Matt Risinger"
High End Building Sciences

Questions?