



Background

- For a decade, Sarah's asked me why I don't put a layout in our 13' by 39' basement room
- I didn't know what to do, so I went to Bob Reid, who'd moved to Florida but was as close as e-mail

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Let's Not Block Any Doors! Door to Outside The Room Door to Bathroom Door to Stairs

Bob Guides Me - 12/1/2022

- · Q: What do you want?
 - A: The Virginian Railway
- · Q; Where?
 - A: Norfolk to Roanoke (no electrics)
- Q: When?
 - A: 1959, Virginian's last year (and no steam)

From Bob Reid To wsm@greatdecals.com To wsm.

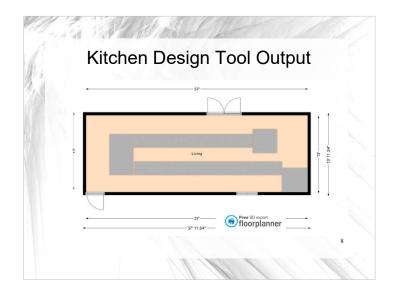
Did you tell me what era you intend to model? Era determined minimum radius. Some problems could be solved in your space by placing a blob in one corner and the other freestanding blob opposite and centered in the needed aisle space of the other corner; an outside aisle freeing up all the doors and a center aisle. sort of like this:

Corner blob

Corner

Bob Reid's Idea • Offset the blobs (cocktail napkin drawing) • "A picture is not a proof!" • I recreated it with a kitchen design tool and the measurements worked!





Things About the Design • East is right and west is left • But trains go down from Norfolk to Roanoke (reverse of real geography) - Necessary for double ended staging • Major yard (Victoria) is far from Staging • Took about a year

I Hire Bob Sprague

- · He says I can have 5 towns
- I check the Virginian timetable and pick Suffolk, Jerratt, Victoria, Brookneal, & Alta Vista
- I send him town track diagrams from the Society
- · Added Alberta later
- bobstrackplans.com/

Now What?

- · My goal is operating sessions
- · I'm not a great carpenter
 - I've never solved the ramp on my 4' by 6'
- · I'm 78 years old
- · Hire a layout builder!

Find a Builder

- · I identified a half-dozen viable builders
- · I fired one
- Some didn't want to build the design
- Settled on Dave Bennett of traininstallations.com

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Surprises

- The Digitrax systems friends had weren't what's now on sale
- Fascia plugs aren't as important
- Probably over configured (2 boosters)
- Wanted UT4R compatibility added UR91 radio

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The Build

- · I hit them at a time of low backlog
- · I insisted on a site visit before the build started
- · Only took seven months
 - Good to be smart, better to be lucky!
- · Ordered without scenery, other than ballasting
 - Only NMRA AP Certificate I might still get
 - "The real Virginian had no trees or rocks -- just track on plywood roadbed." Mike Dodd

Dale Latham's Advice

- "If I was starting over, I would make 48" as my minimum height"
 - Went with that
 - Suffolk is 54"
- Ultimately ordered a custom step stool from an etsy seller for Suffolk (it's high and deep)
- Also useful for younger visitors

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Suffolk & Alberta - July 10, 2024



6' Operators Like the Stool



Turnout Controls

- Starting point was ground throws for everything, but...
 - Hidden Staging
 - Suffolk
 - Alta Vista main out of Staging

Motive Power

- Knowing the layout was coming, I stocked up on Atlas Virginian Train Master locomotives
- Tom Matty was very helpful in transforming an assortment of misfits into a locomotive roster

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Staging Controls



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H16-44 Locomotives

- · Train Masters really lived west of Roanoke
- · I'd tried to get Bachmann H16-44s DCC'd
- Railroad Lunch friends suggested two new Midwestern installers – success!
 - houseoftrains.com/
 - enginehouseservices.com/
- Starting to be used in operating sessions

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Issues

- · Thrilled that locomotives are detected
- · UT4R throttle can't throw Alta Vista turnouts
 - Added turnout push buttons under the fascia
- One operator suggested paired Staging Panel buttons
 - How many \$100s is that worth?

Tune-Up Visit - Aug. 20, 2024

- Town name labels
- Illuminate hidden staging with rope LEDs
- · Direct west access to all Victoria tracks
- · Restore missed interchange track
- Turnout push buttons for Alta Vista crossover and "new" interchange track
- · Added fascia plug
 - I'm still fighting the last war

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Operating Sessions

- Having NMRA AP Dispatcher certificate still left challenges
 - Operating Scheme design is hard
- · Nobody liked my initial design, including me
- · Version 2 has supported several sessions
 - My thanks to Dale Latham and Bill Roman for their ideas
- · Less staging use in second operating scheme

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Current Operating Scheme - 4 Jobs

- · From Victoria:
 - Suffolk (East) Turn
 - Alta Vista (West) Turn
- Suffolk Shifter
- · Through Train
 - Staging to Victoria & Back
 - Victoria Yardmaster

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Digitrax Challenges

- Operating sessions revealed a couple of issues with the installation related to engines crossing power districts on a busy railroad
- Gil Fuchs was tireless in identifying and correcting the problems

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Considering Adding

- · Coal Drag
- Emptys Drag
- Passenger Train(s)
- · All this requires a "fast" clock

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Demonic Possession

- · Idle locomotive takes off like a bat out of hell
 - Layout electrical event makes decoder think it's not on DCC
 - Switches to DC mode and decides is at max
- Use Decoder Pro to turn off DC capability

Operating Sessions

- First one was August 13, 2024
 Twelve subsequent sessions
- · 23 different operators

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Tune-Up Visit - Feb. 26, 2025

- · Connect track status lights on 2 fascia plugs
- · Continuous charging power to fascia plugs
- · Fix dead spot on Lane turnout in Alta Vista
- · Adjust seven turnouts around the railroad
- · Free up on stuck staging turnout
- · Eliminate bump in west Victoria
- · Research Alta Vista turnout control after short

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Post Tune-Up Surprise

- Major Suffolk Turnout Shorts w/Engines
 - Sure glad I insisted on sockets for the Tortoise and Smail machines

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Conclusions

Many people contributed to the success of my railroad

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Tune-Up Visit - April 17, 2025

- · Correct Alta Vista turnout control after short
- Connect Track Status indicator on UR91
- · Suffolk turnout short still a puzzle
- Hidden Staging turnout control after short needs research