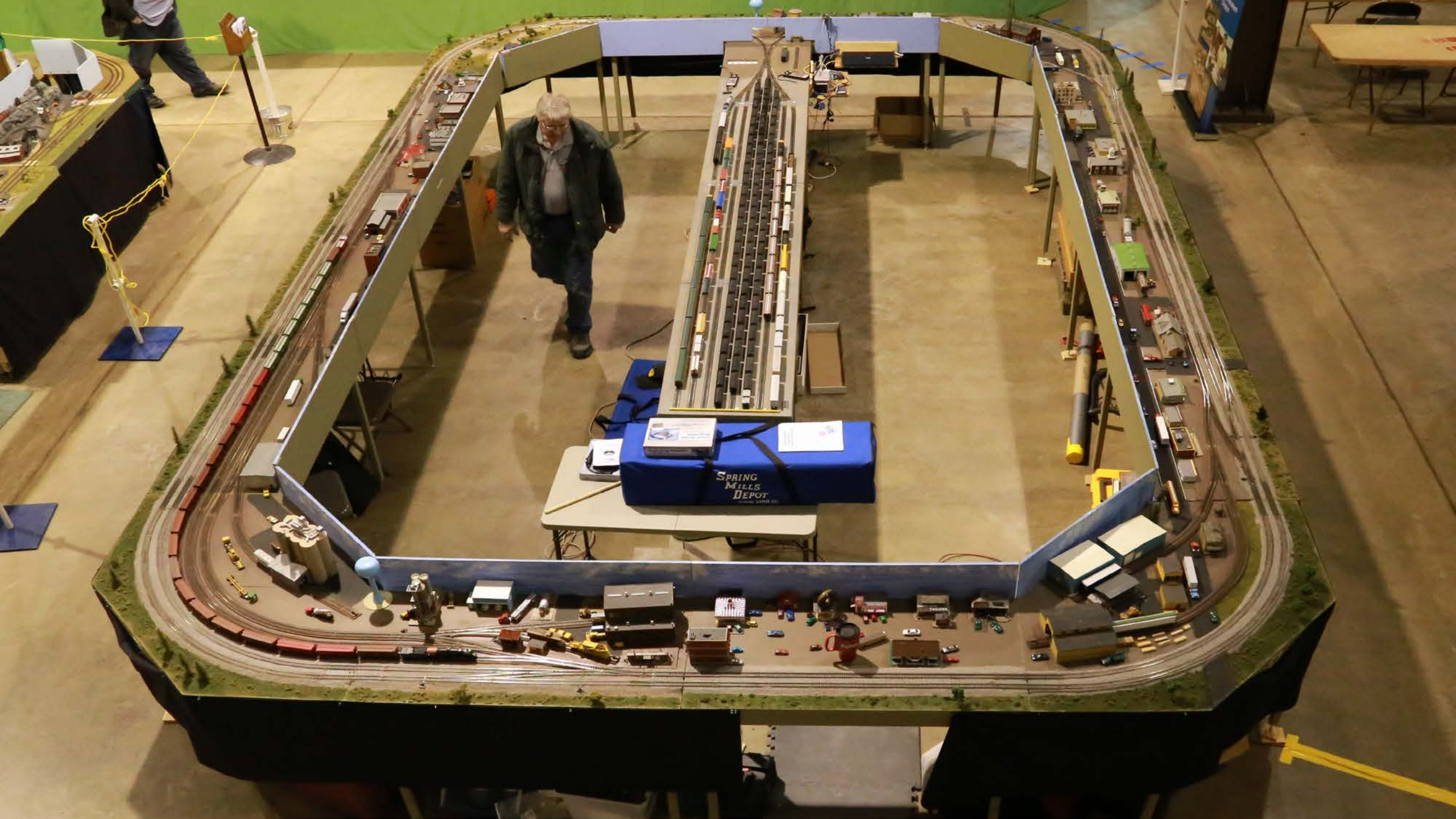
MODULE STANDARDS

CENTEX MODULAR LAYOUT

STANDARDS COMMITTEE PROPOSAL

31 DECEMBER 2016

GLUE
N-1


SPRING
MILLS
DEPOT

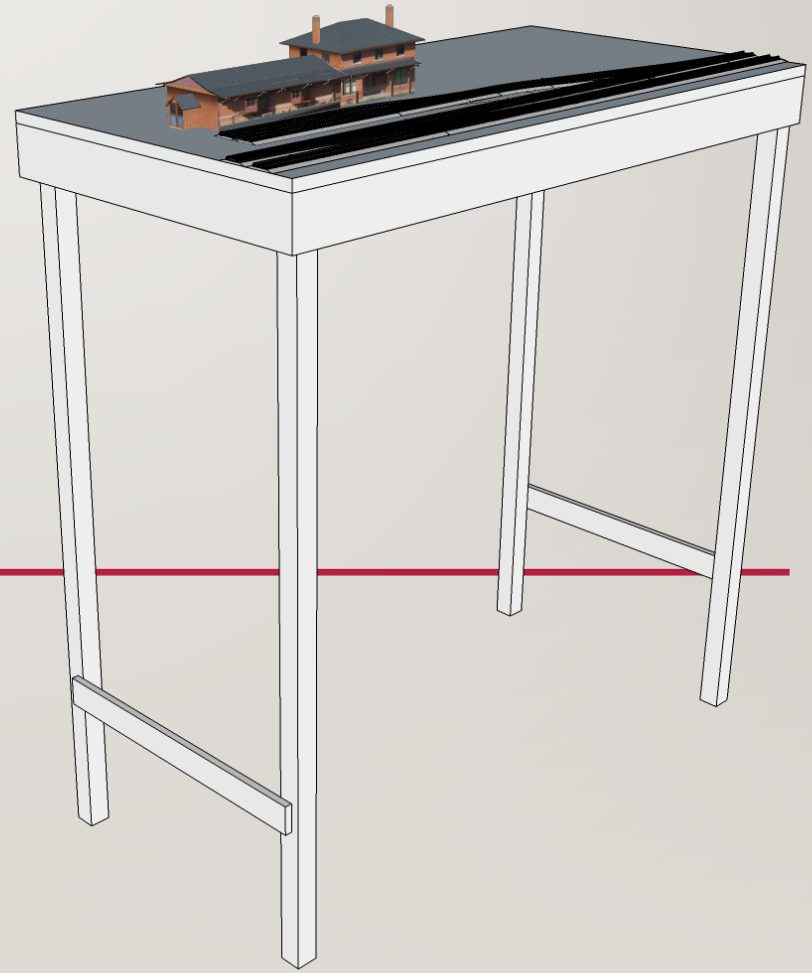
LAYOUT GOALS

- Show/public friendly
- Realistic operating sessions

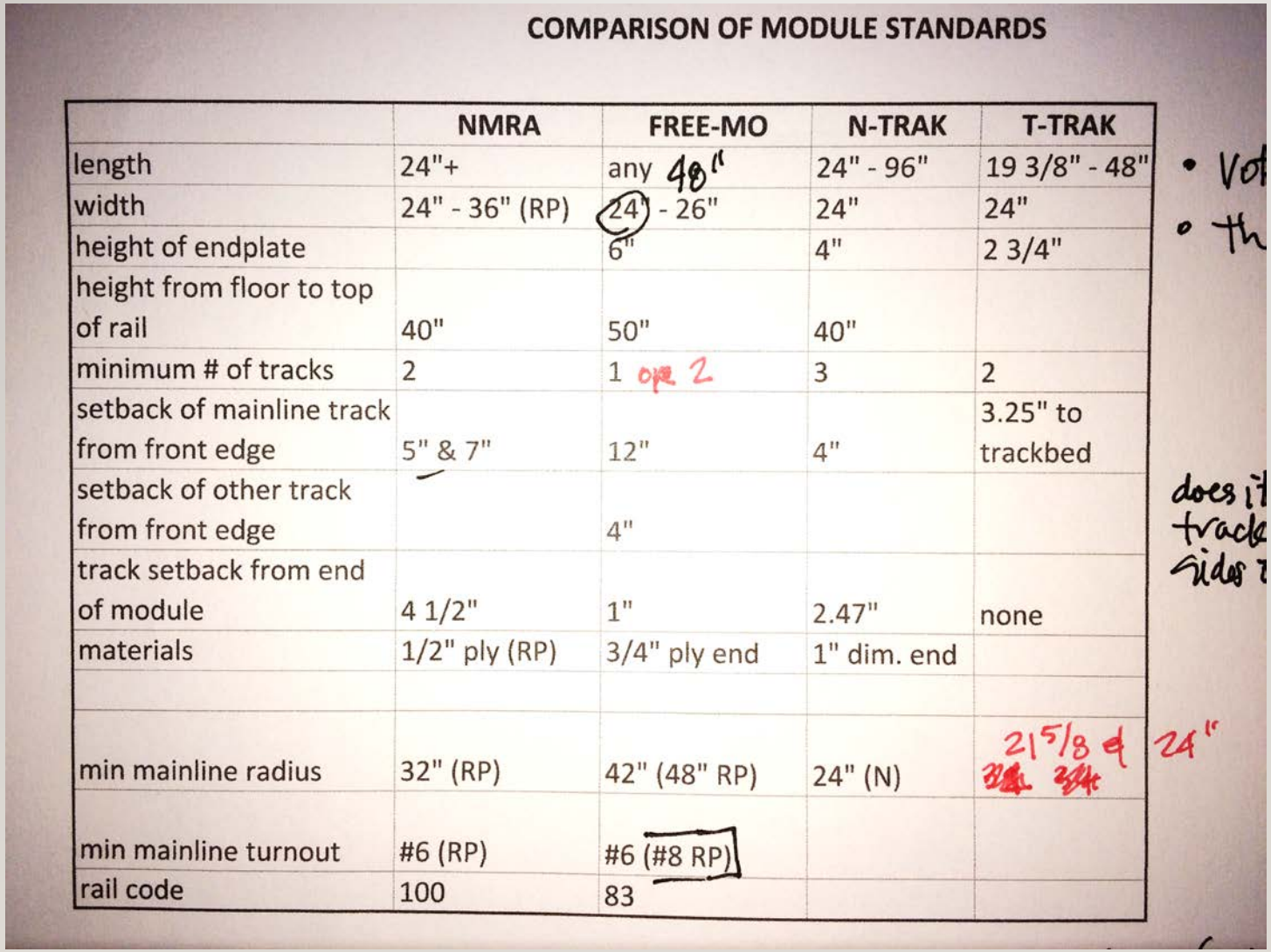
MODULE CHARACTERISTICS

- Straightforward
- Reliable and sturdy
- Easy to set up
- Uniformity

MODULE STANDARDS



MODULE STANDARDS COMPARED



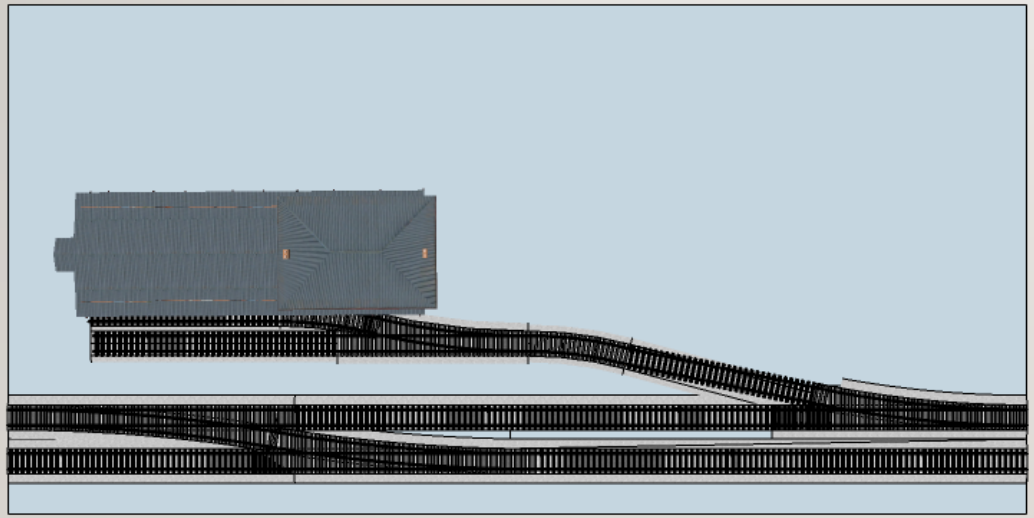
COMPARISON OF MODULE STANDARDS

	NMRA	FREE-MO	N-TRAK	T-TRAK
length	24"+	any 48"	24" - 96"	19 3/8" - 48"
width	24" - 36" (RP)	24" - 26"	24"	24"
height of endplate		6"	4"	2 3/4"
height from floor to top of rail	40"	50"	40"	
minimum # of tracks	2	1 or 2	3	2
setback of mainline track from front edge	5" & 7"	12"	4"	3.25" to trackbed
setback of other track from front edge		4"		
track setback from end of module	4 1/2"	1"	2.47"	none
materials	1/2" ply (RP)	3/4" ply end	1" dim. end	
min mainline radius	32" (RP)	42" (48" RP)	24" (N)	21 5/8 ¢ 24"
min mainline turnout	#6 (RP)	#6 (#8 RP)		
rail code	100	83		

MODULE (MODIFIED FREE-MO STANDARDS)

48”

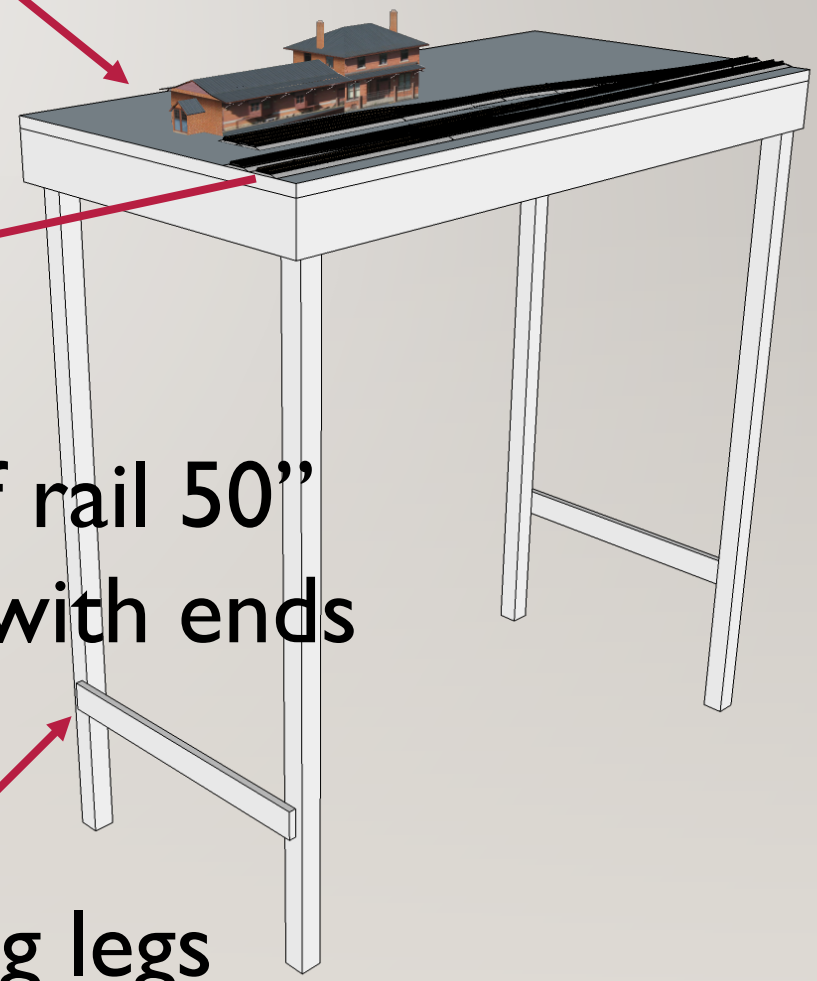
24”



No back drop

Top of rail 50”
Flush with ends

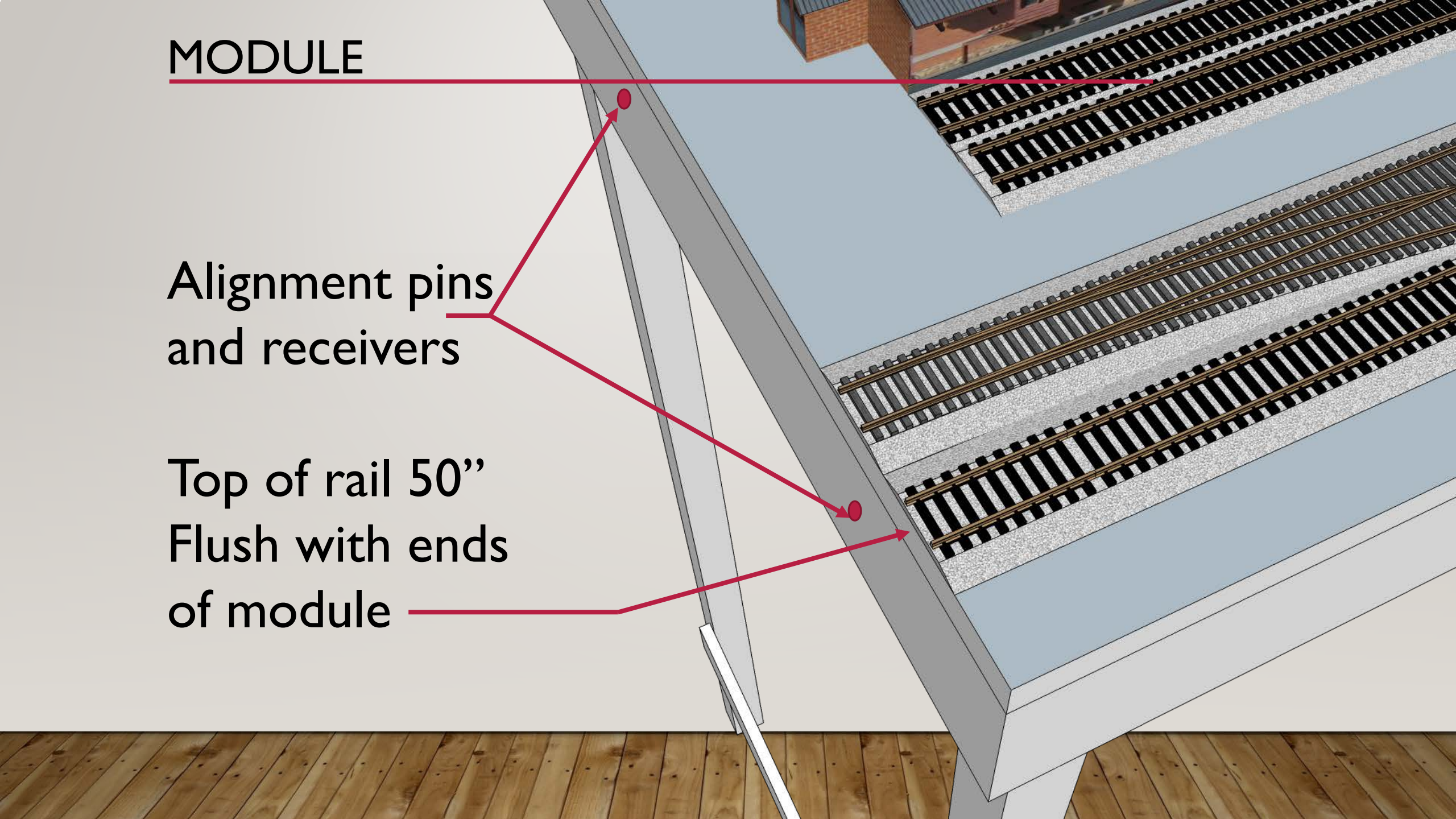
Folding legs



MODULE

Alignment pins
and receivers

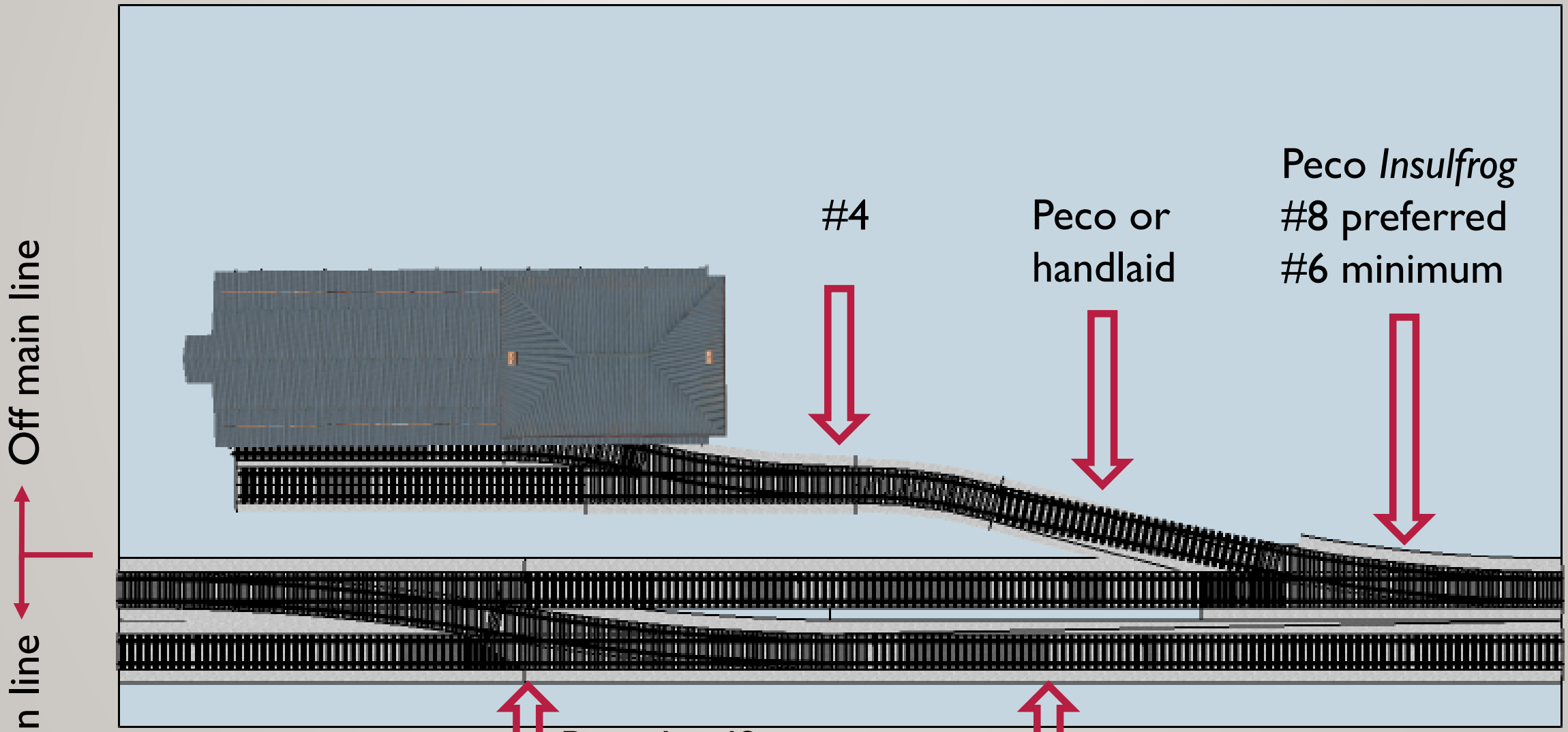
Top of rail 50”
Flush with ends
of module



MODULE OWNERSHIP

- Individually owned: 2’x4’
- Club owned: Corners, Wyes, Specialty

TRACK


Off main line
Main line
#4
Peco or
handlaid
Peco *Insulfrog*
#8 preferred
#6 minimum
Peco *Insulfrog*
#8 preferred
#6 minimum
Peco Code 83
On 3/16” cork roadbed

TRACK

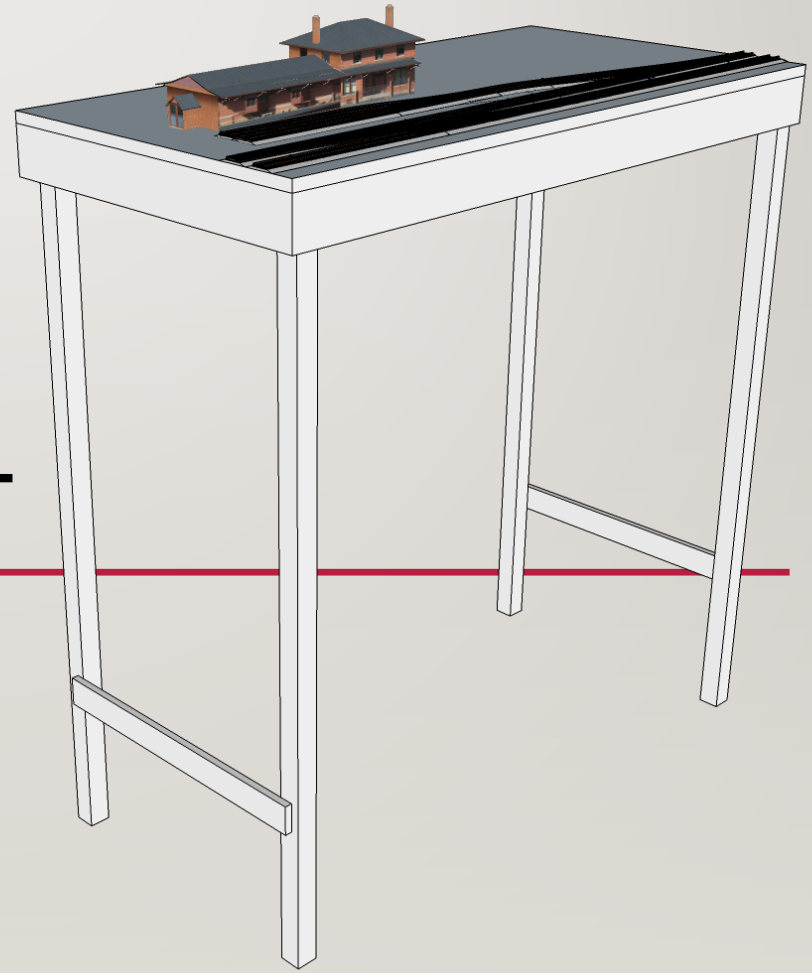
MAIN LINE

- Peco Code 83 Flex
- 3/16” Cork roadbed
- Peco *Insulfrog* hand throw
  - #8 preferred
  - #6 minimum

OFF MAIN LINE

- Peco or handlaid any code
- Peco *Insulfrog* or handlaid
  - #4 minimum

TRACK ARRANGEMENT



TRACK ARRANGEMENT GOALS

Shows

Operations

TRACK ARRANGEMENT GOALS

Shows

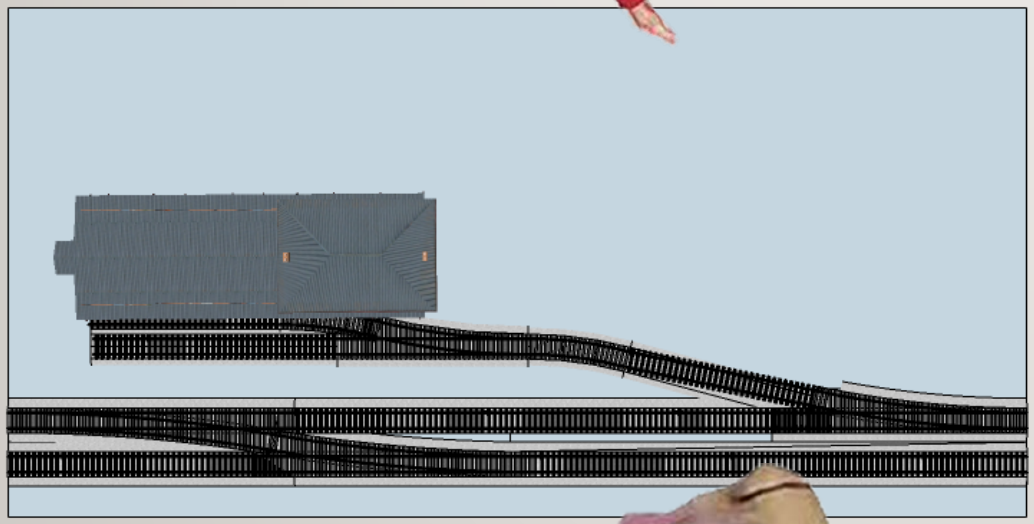
- Continuous running
- Trains close to audience
- Easy set up and tear down

Operations

- Realistic track arrangement
- Trains close to operator
- Set up at home to work on

TRACK ARRANGEMENT

Club side



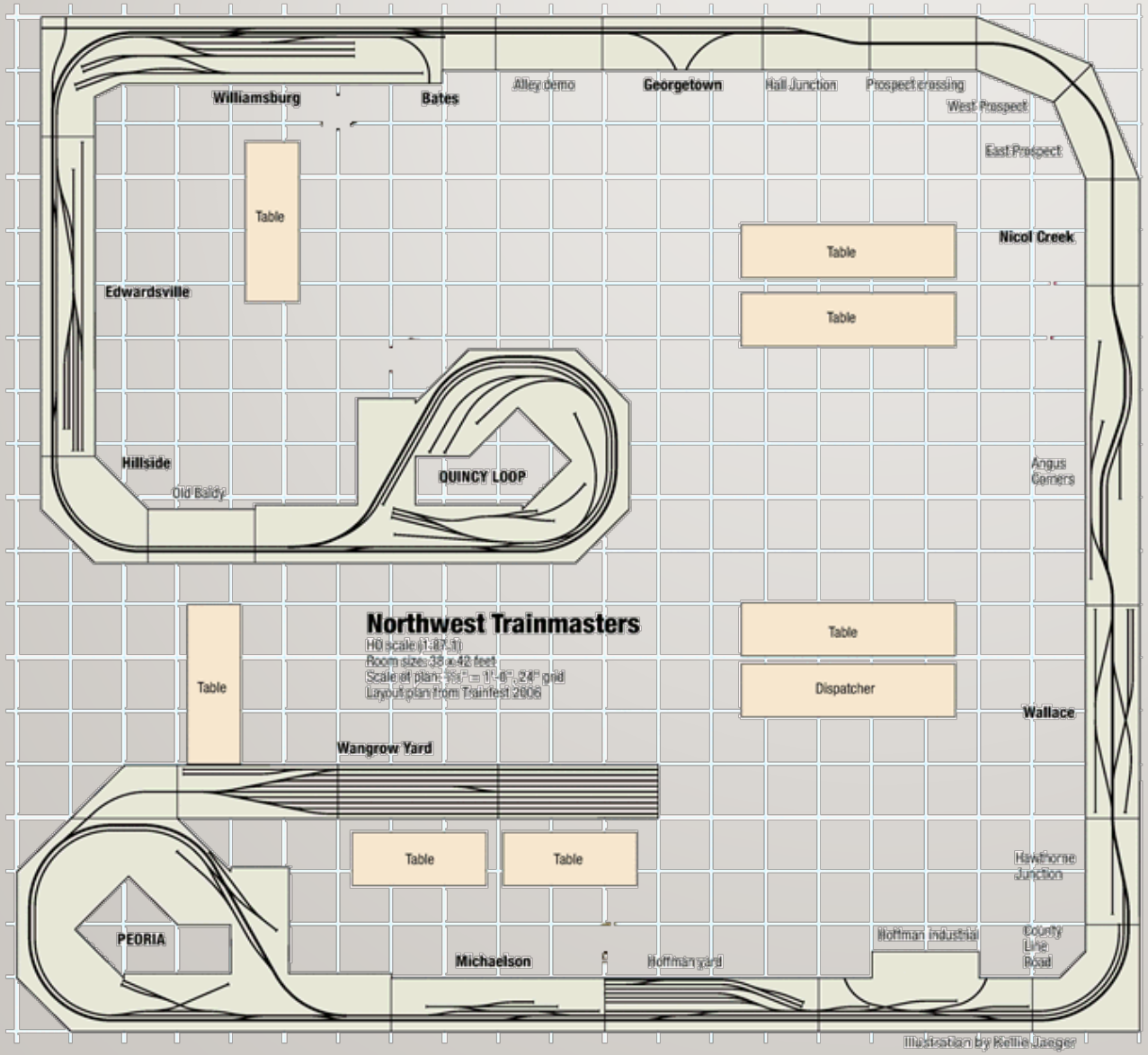
Public side

MAIN LINE

- Double track at outside edge close to public
- Operations from inside edge
- 48” preferred min radius
  42” minimum radius
- Layout Design Committee to determine location of main line

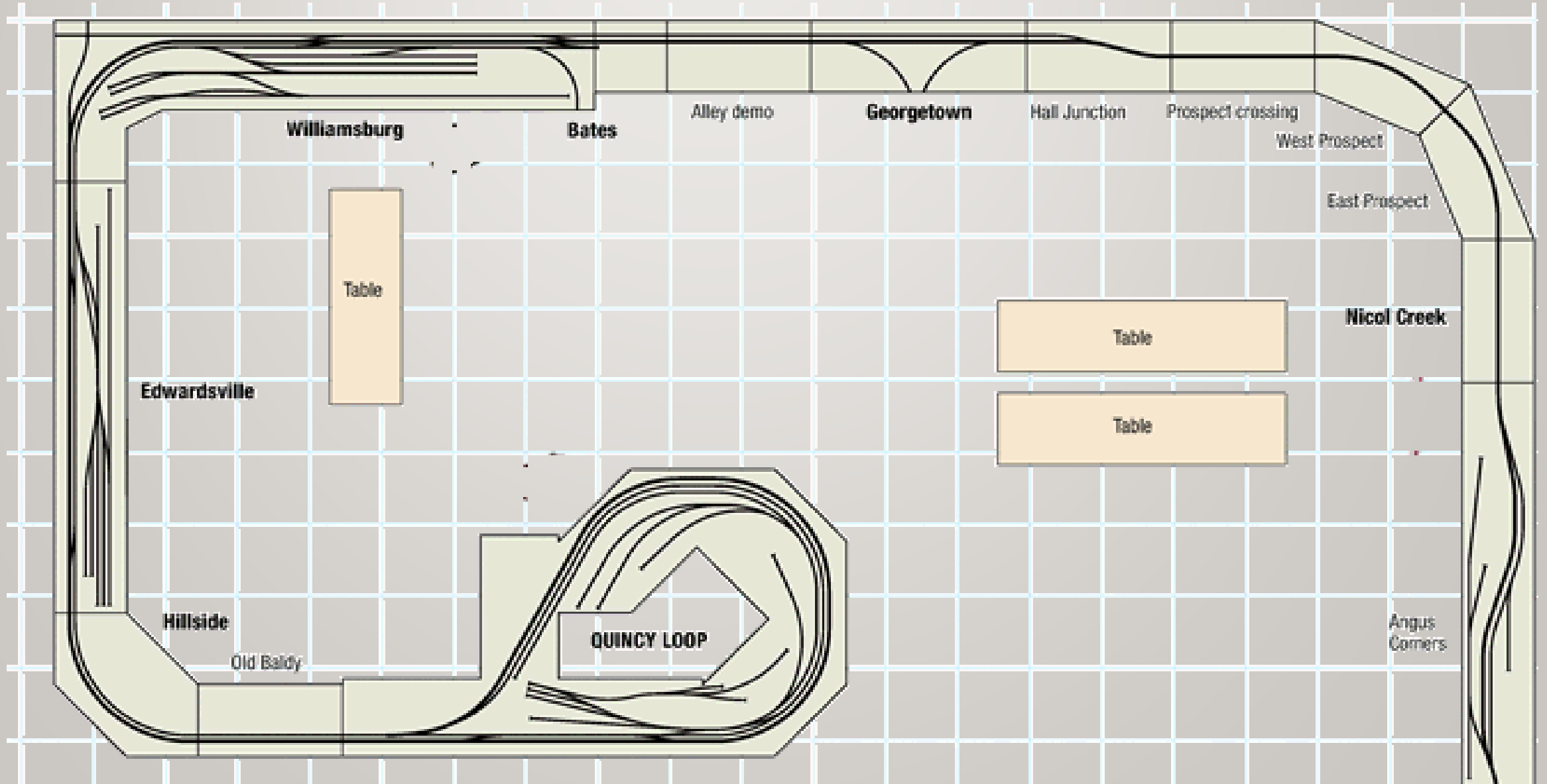
TRACK ARRANGEMENT EXAMPLE

Northwest Trainmasters



TRACK ARRANGEMENT EXAMPLE

Northwest Trainmasters



TRACK ARRANGEMENT EXAMPLE

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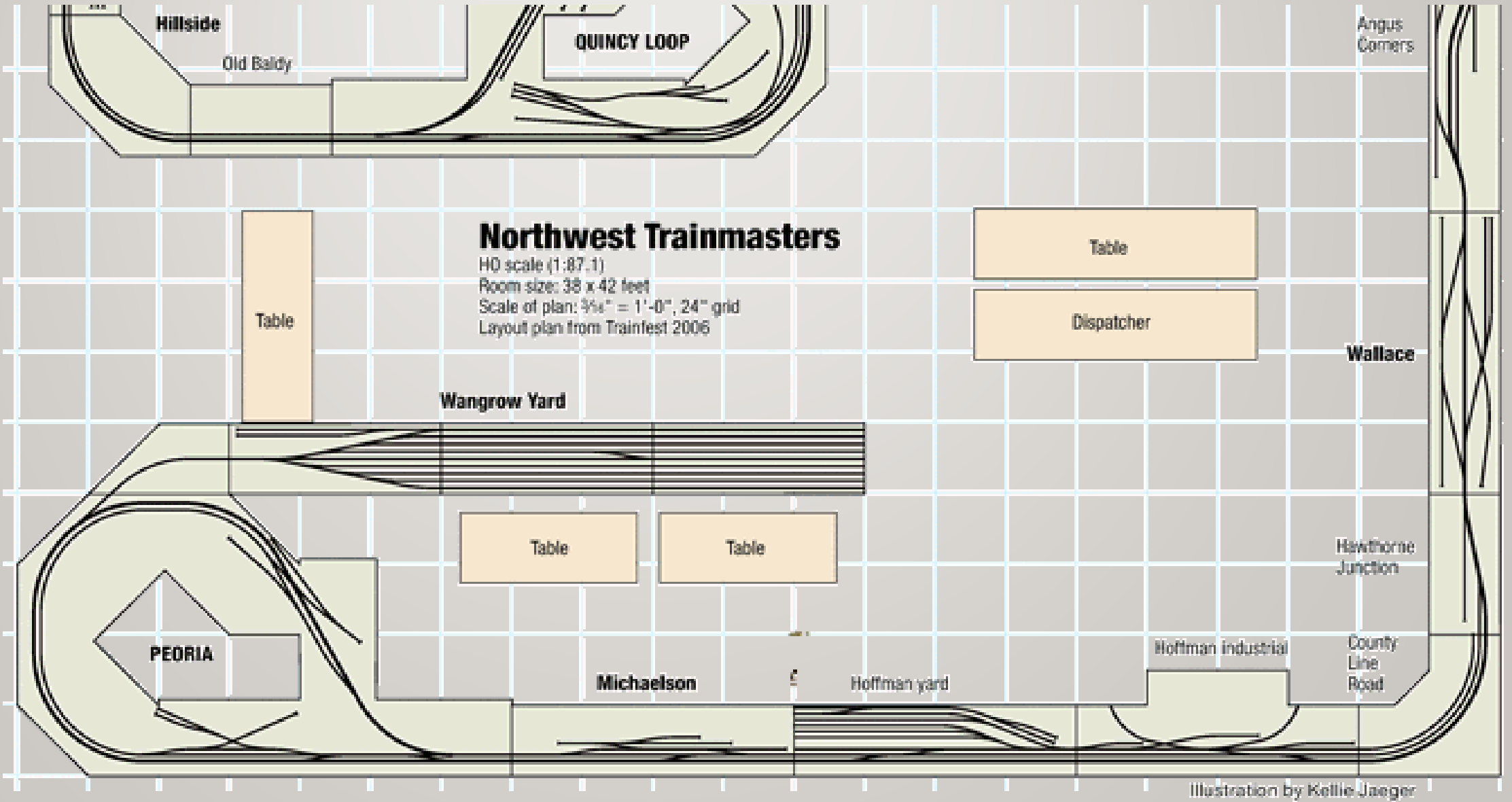

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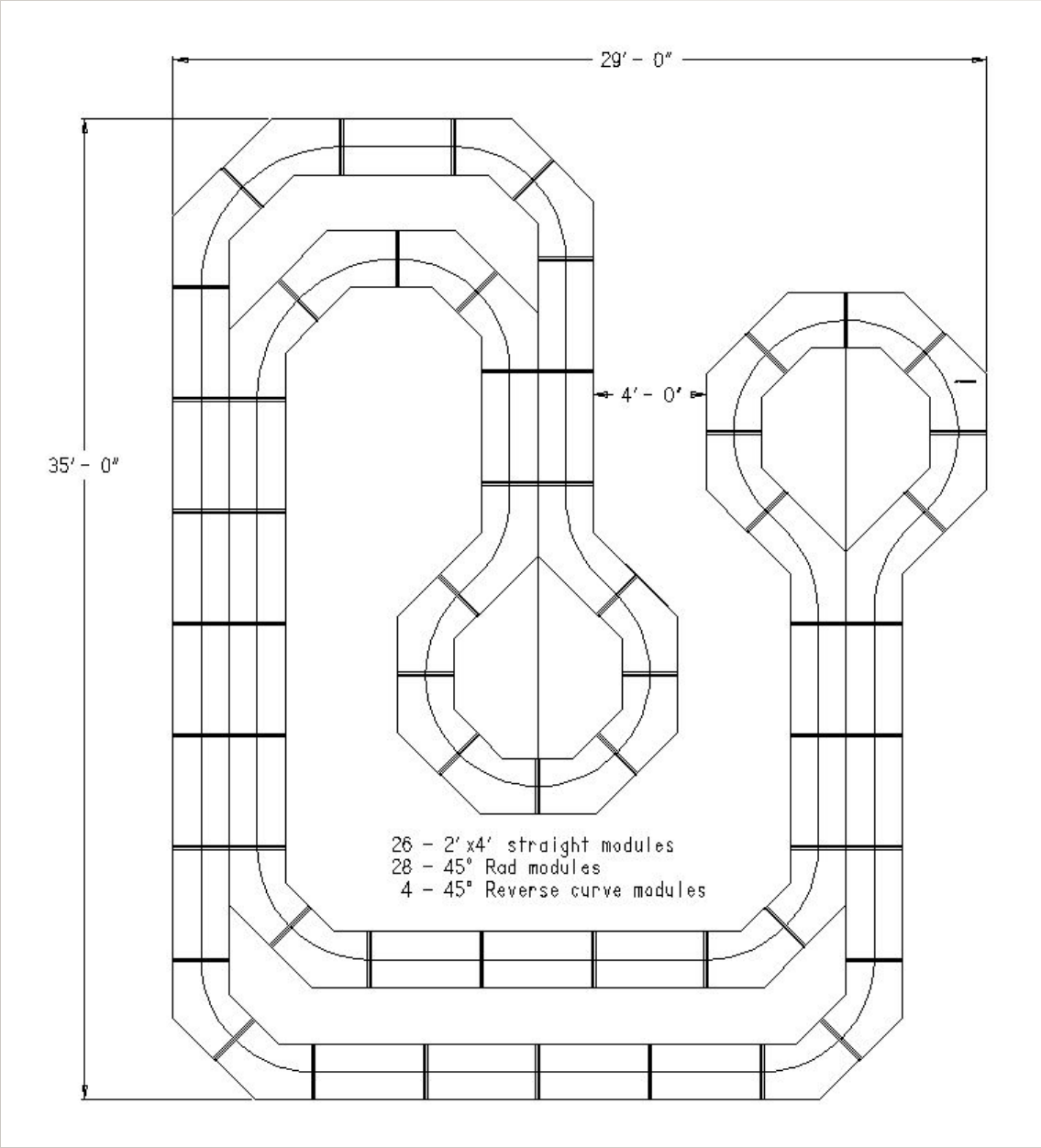

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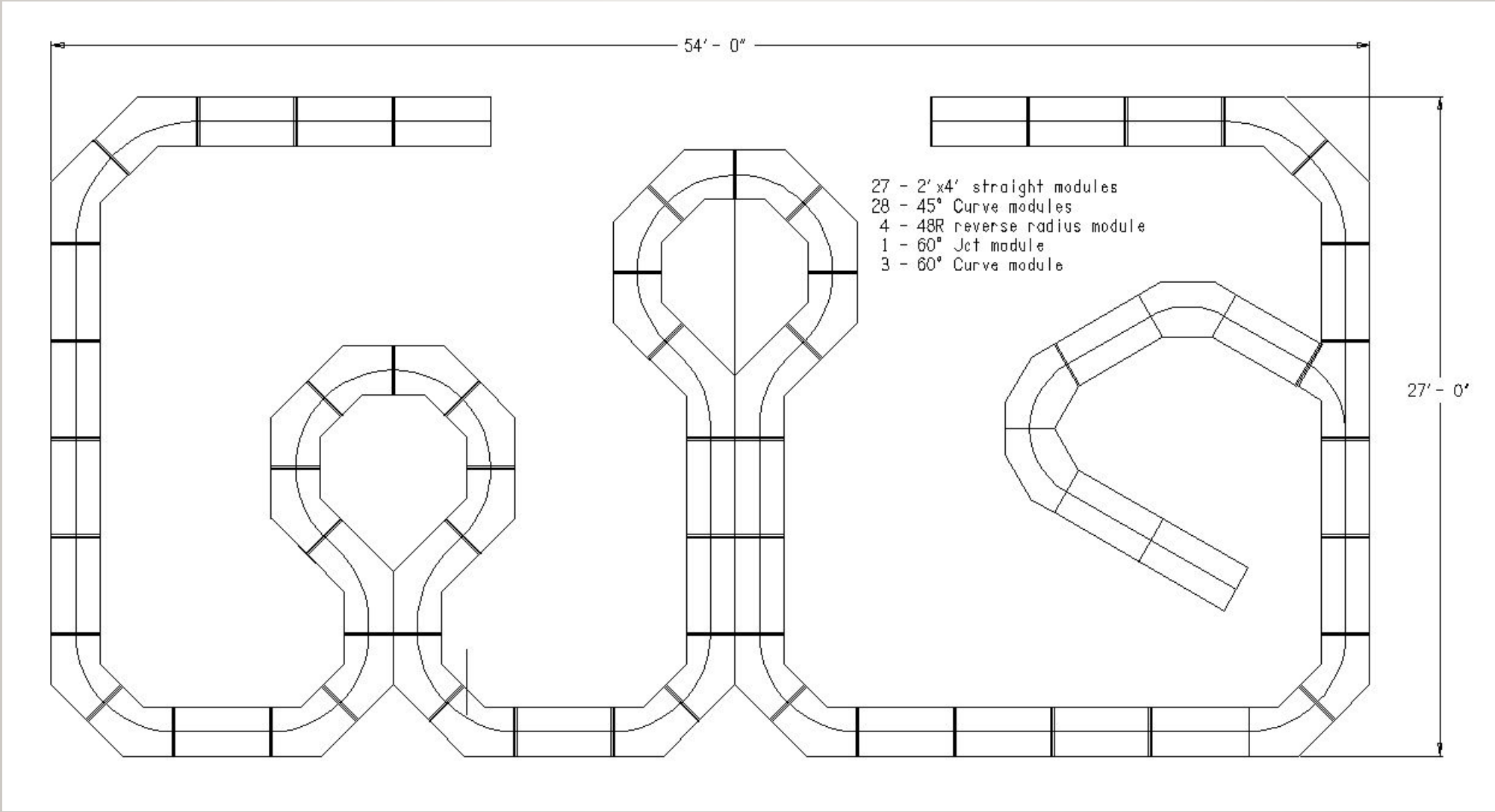

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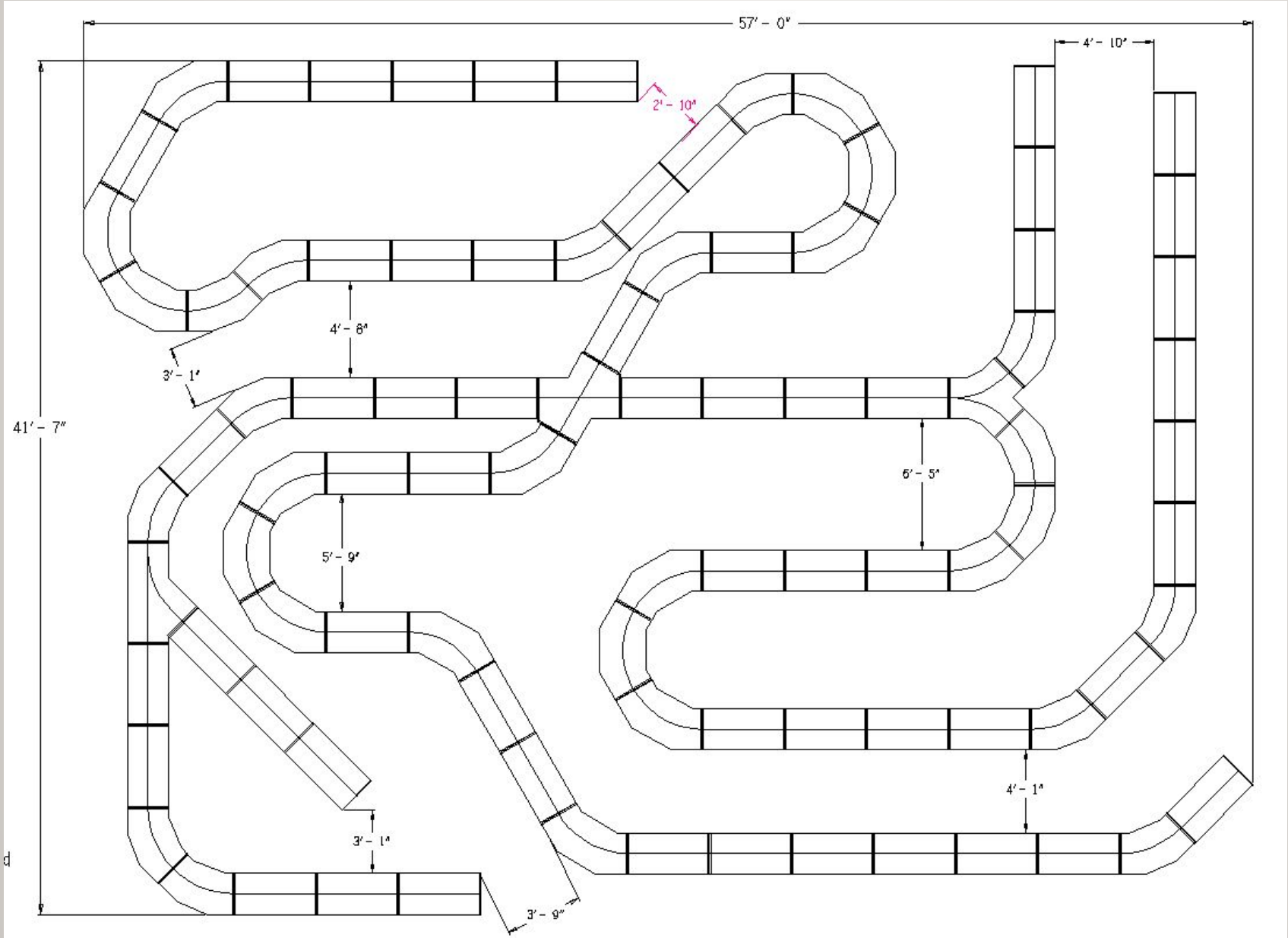
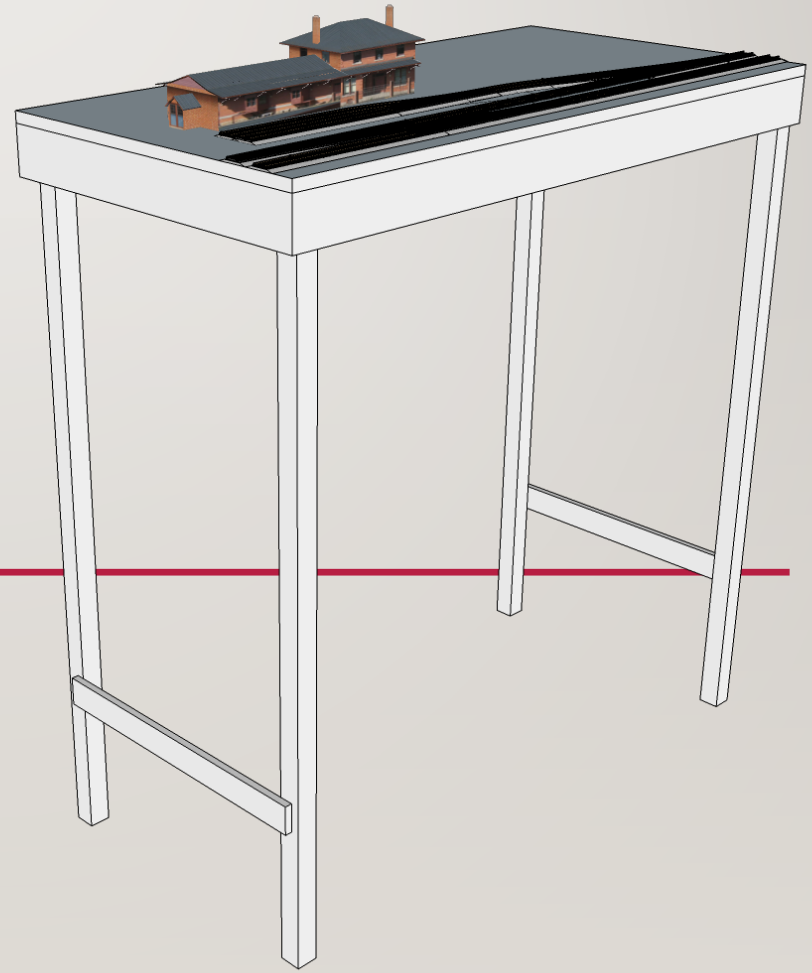


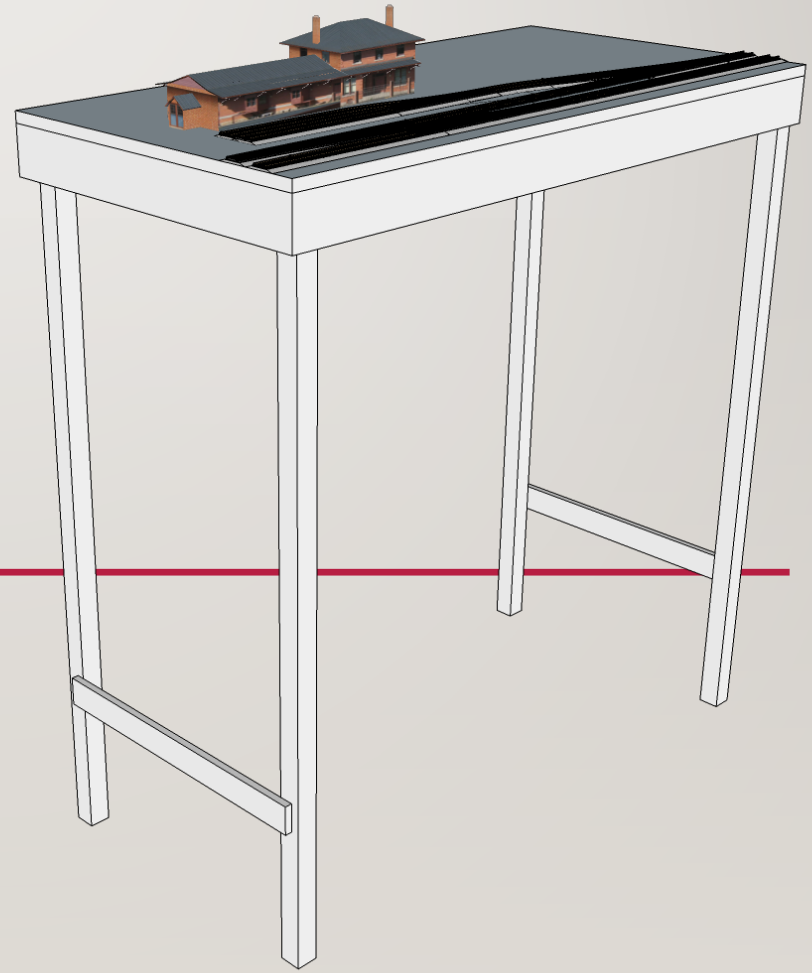
ELECTRICAL



ELECTRICAL (MODIFIED T-TRAK STANDARDS)

- 12 Gauge track bus
- Separate bus each main line
- 12 Volt accessory bus
- 30 Amp PowerPole connectors each end
- No LocoNet bus

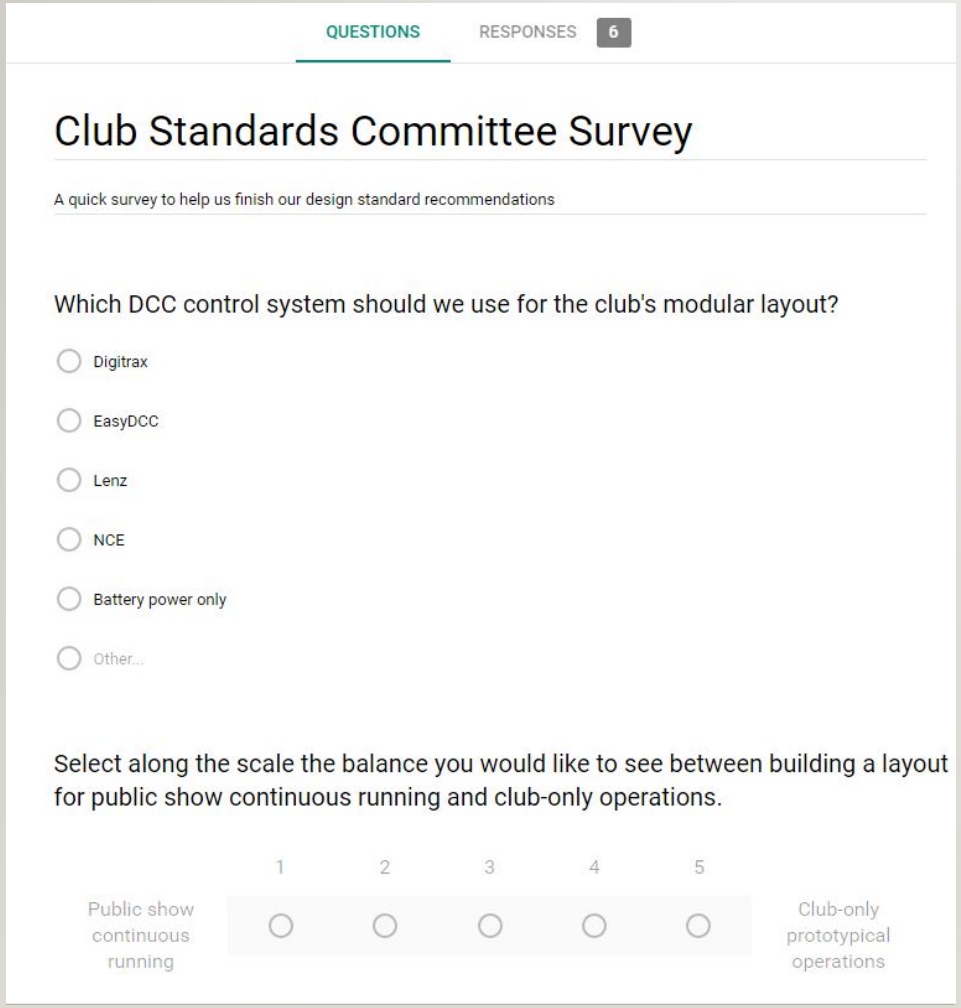
DCC SYSTEM



DCC SYSTEM

- No LocoNet bus
- Wireless throttles
- Ability to use smart phones and tablets

DCC SYSTEM???????



QUESTIONS RESPONSES 6

Club Standards Committee Survey

A quick survey to help us finish our design standard recommendations

Which DCC control system should we use for the club's modular layout?

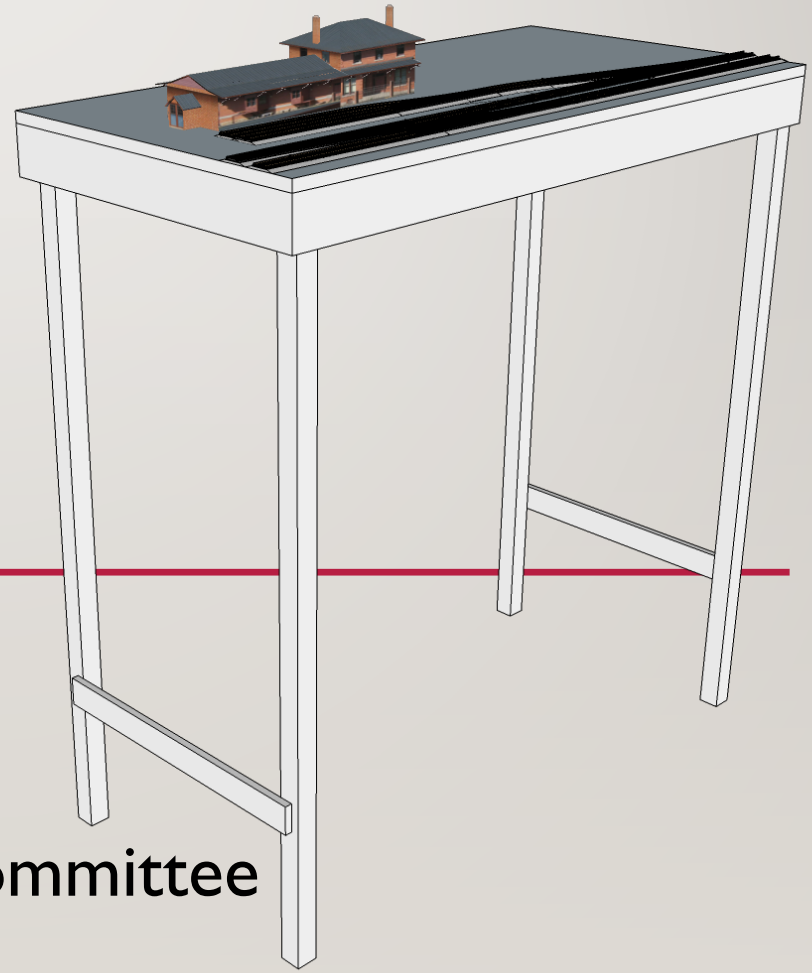
- Digitrax
- EasyDCC
- Lenz
- NCE
- Battery power only
- Other...

Select along the scale the balance you would like to see between building a layout for public show continuous running and club-only operations.

	1	2	3	4	5	
Public show continuous running	○	○	○	○	○	Club-only prototypical operations

- Digitrax
- EasyDCC
- Lenz
- NCE
- Battery power only

NEXT STEPS



- Vote on DCC
- Cost of modules
- Handoff to Layout Design Committee
- Other committees