
Bricks
Catalog
Summer 2021
Track

Fx Track

Contents

Fx Track is new system of L-Gauge metal train track compatible with LEGO® brand 9V and RC track elements. Experience all of the advantages of running LEGO® model trains on metal rails, including limitless power without batteries, reliable smooth running and more options for control. The Fx Track system offers both the beginner and advanced hobbyist a superior quality track product for layouts of any size or shape!

Introduction

Advantages

Durable and reliable

- Metal rails are more durable than plastic rails
- Rails resist bending and twisting for better alignment

No more batteries

- Avoid environmental impact from disposable batteries
- Save money from battery replacements

Unlimited runtime

- Powered track lets you run trains all day long!
- No more waiting for batteries to run down

More power

- Deliver more power to track for heavy or fast trains
- Your choice of DC or DCC power sources

Features

UV Safe Plastic

- Injection molded ABS plastic
- Dark bluish gray colour

Indoor/outdoor Use

- Suitable for indoor and outdoor use
- UV safe plastic + corrosion resistance make garden railways a possibility!

9V Compatible

Compatible with LEGO® brand 9V track elements and accessories

Corrosion resistant

- Nickel plated Copper-Beryllium alloy rails
- Corrosion resistant
- Excellent electrical conductivity

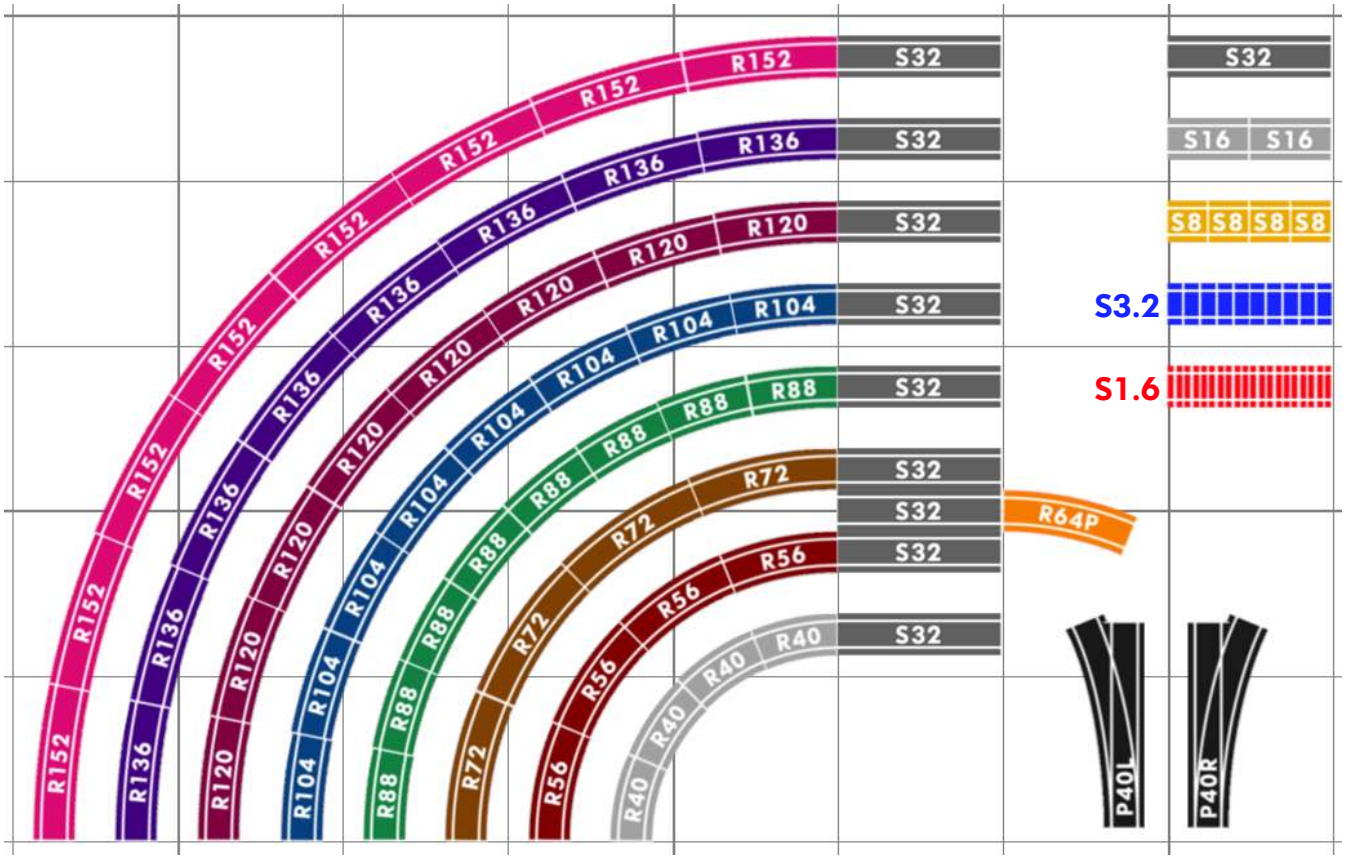
Sturdy connectors

- Sturdy click connections for fast setup and takedown
- Protected electric connections without rail joiners

L-Gauge Compatible

Compatible with LEGO® brand RC track elements and L-Gauge plastic track elements from other manufacturers

Track System



The **Fx Track** system is designed to offer L-Gauge train fans endless possibilities for designing their layouts. Whether you are a beginner or experienced hobbyist, the **Fx Track** system contains all the key elements required to make interesting and enjoyable layouts of any size and shape.

Each of these elements is designed to work together as a *system*. This means the geometry of the system allows most track configurations to maintain connection points aligned to 8 stud intervals. This makes it easier to lay the track on 16-stud boundary intervals of LEGO® baseplates, maintain nominal 16-stud parallel track separation, and build collaborative layouts with others.

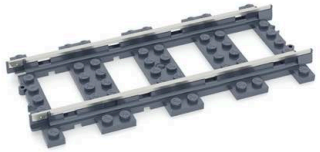
Straight Tracks

S8 Half Straight

Length: 8 studs (64 mm)

S8

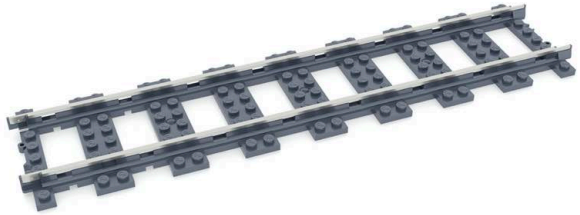
S16 Full Straight



Length: 16 studs (128 mm)

S16

S32 Double Straight



Length: 32 studs (256 mm)

S32

S1.6

Length: 1.6 studs (12.8 mm)

Special straight used with P40 switches and S-bends

S3.2

Length: 3.2 studs (25.6 mm)

Special straight used with P40 switches and S-bends

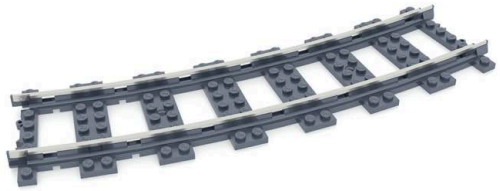
Curve Tracks

R56

Radius: 56 studs (448 mm • 17-5/8")
Sector: 22.5°
16 per full circle

R56

R72



Radius: 72 studs (576 mm • 22-11/16")
Sector: 22.5°
16 per full circle

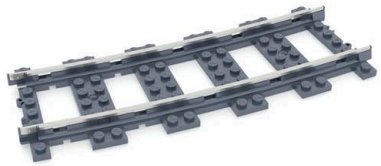
R72

R88

Radius: 88 studs (704 mm • 27-23/32")
Sector: 11.25°
32 per full circle

R88

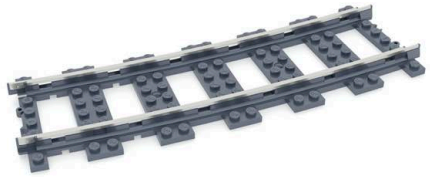
R104



Radius: 104 studs (832 mm • 32-3/4")
Sector: 11.25°
32 per full circle

R104

R120



Radius: 120 studs (960 mm • 37-13/16")
Sector: 11.25°
32 per full circle

R120

Curve Tracks

R136

Radius: 136 studs (1088 mm • 42-27/32")
Sector: 11.25°
32 per full circle

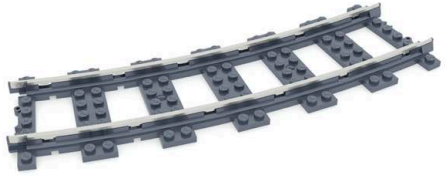
R136

R152

Radius: 152 studs (1216 mm • 47-7/8")
Sector: 11.25°
32 per full circle

R152

R64P



Radius: 64 studs (512 mm • 20-5/32")
Sector: 22.62°

Special curve section used for:
- return curves with P40 switches
- making S-bends

R64P

Switch Tracks

P40L Left Switch

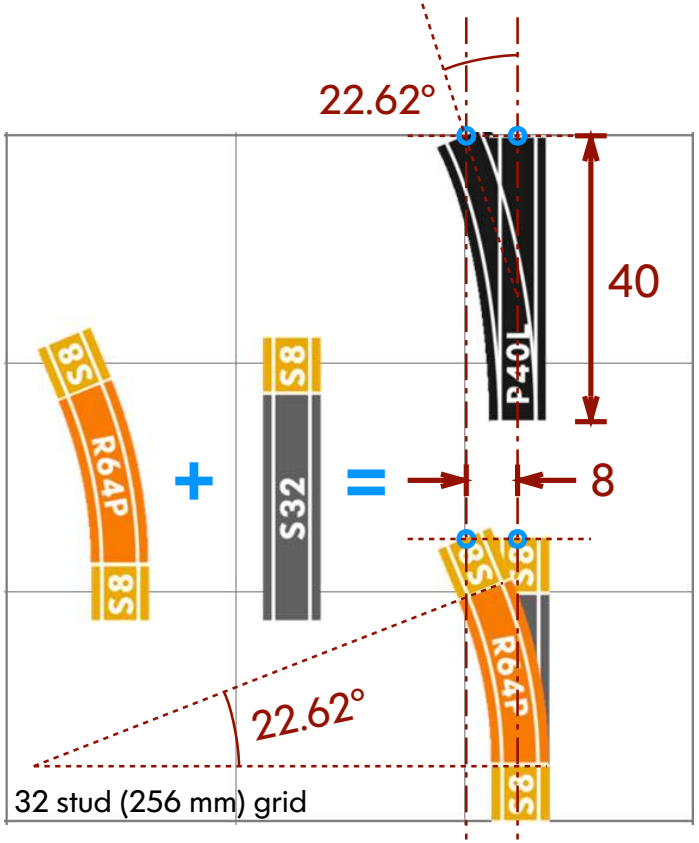
Length: 40 studs (320 mm)
Diverging route offset: -8 studs (64 mm)
Vee Angle: 22.62°

Equivalent radius of diverging route:
104 studs (832 mm)

P40R Right Switch

Length: 40 studs (320 mm)
Diverging route offset: 8 studs (64 mm)
Vee Angle: 22.62°

Equivalent radius of diverging route:
104 studs (832 mm)



The Fx Track system **P40** switch is designed to be as versatile as possible, whilst allowing track configurations to be made in conformance with a nominal 8-stud grid geometry.

Product List

SKU	Product	Availability
8832	S32 Straight Tracks (8x)	Mar 2021
8816	S16 Straight Tracks (8x)	2022
8808	S8 Straight Tracks (8x)	Jun 2021
8856	R56 Curve Tracks (8x)	Q3 2021
8872	R72 Curve Tracks (8x)	Jun 2021
8888	R88 Curve Tracks (8x)	Jun 2021
8904	R104 Curve Tracks (8x)	Q3 2021
8920	R120 Curve Tracks (8x)	2022
8936	R136 Curve Tracks (8x)	2022
8952	R152 Curve Tracks (8x)	2022
8040	P40 Switch Pack (Left + Right)	Q4 2021
8864	R64P Curve Tracks (8x)	Q4 2021
8800	S1.6 & S3.2 Straight Tracks (10x ea.)	Q4 2021

Topics

Return Loops

Progressive Curves

Asymmetric Loops & Circles

Parallel Track Configurations

Yard Ladders and Sidings

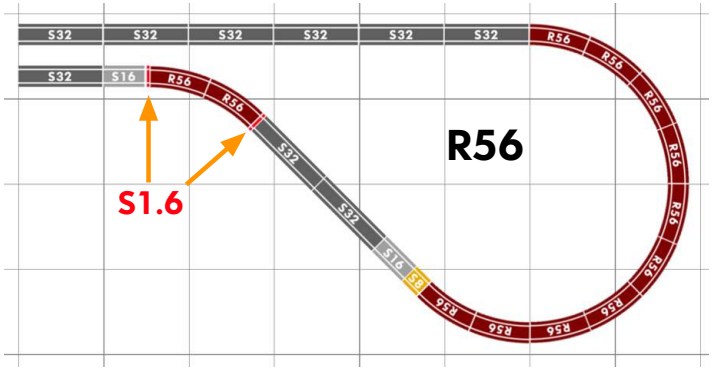
How It Fits Together

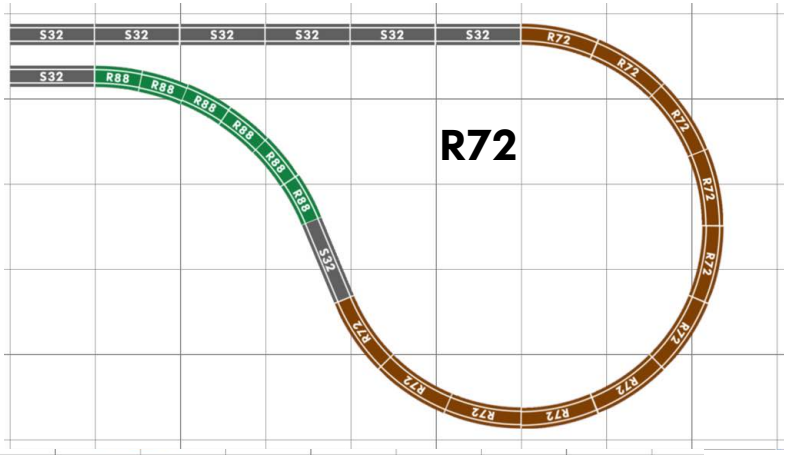
Fx Track elements are designed to fit together in special ways to help you build realistic and interesting track layouts.

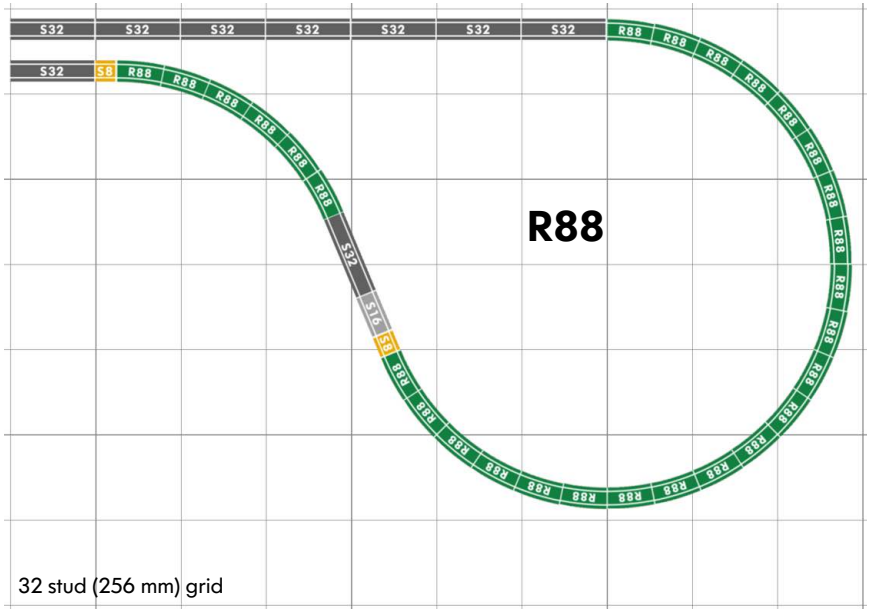
This guide shows some common railway track arrangements such as crossovers, sidings, loops, etc. and shows you how to build these features with Fx Track.

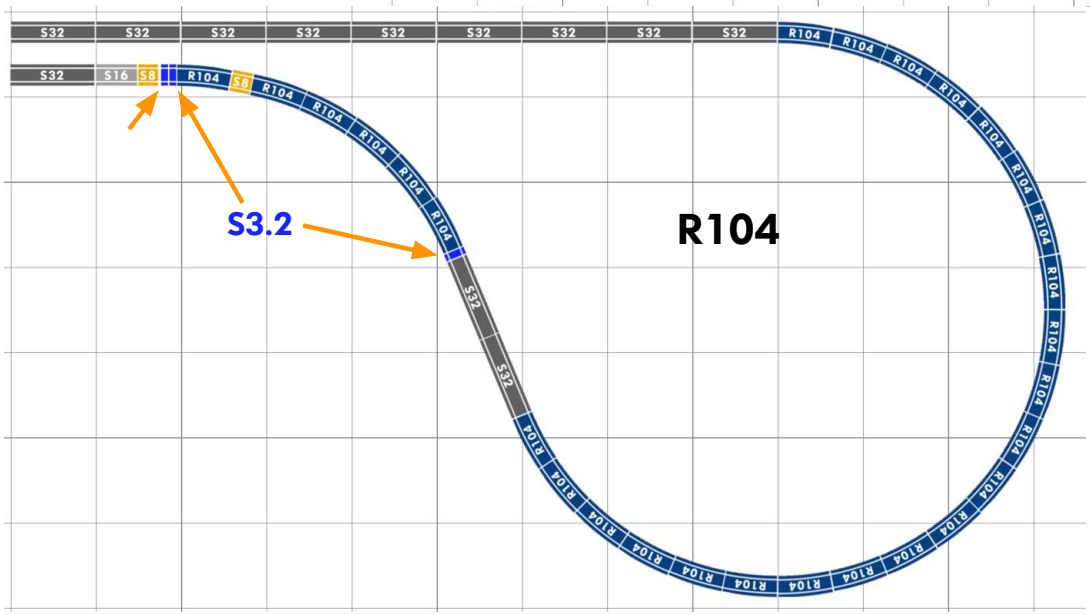
Return Loops

Return loops are a useful and compact way of reversing train direction on to a parallel track. Return loops for R56, R72, R88 and R104 are illustrated here. Each loop is aligned to 16-stud separated parallel tracks.







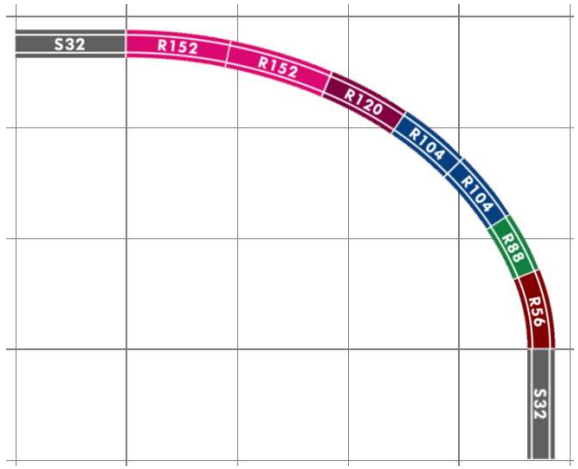


32 stud (256 mm) grid

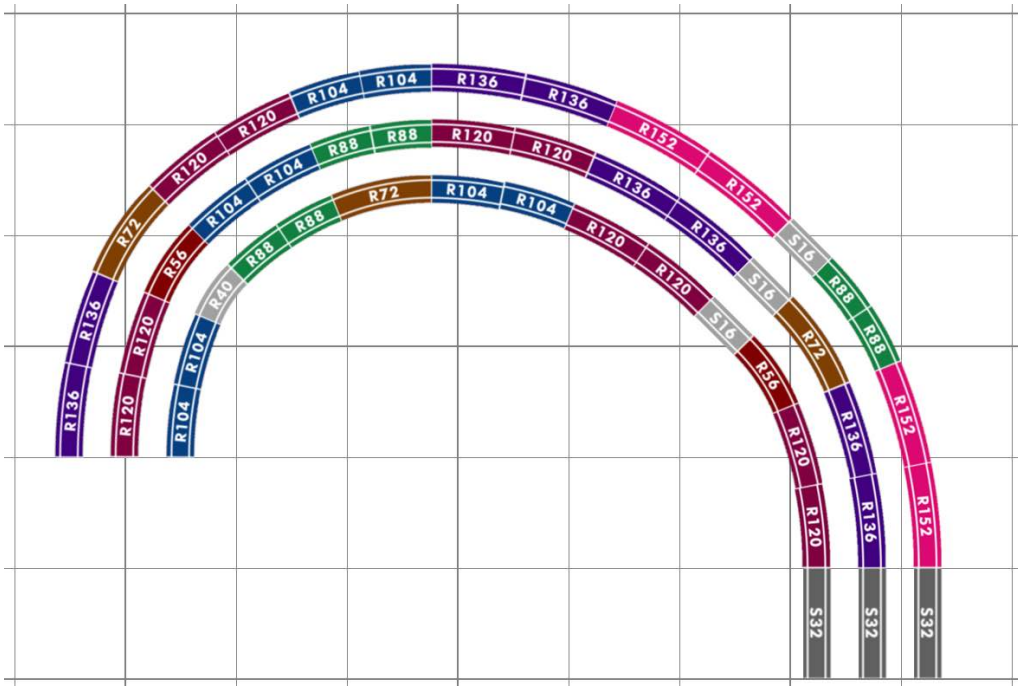
Progressive Curves

Progressive curves vary the radius of curvature along its length. This can be useful for making natural looking transition curves found on real railways. Due to the constraints of maintaining an 8-stud grid geometry, there are not many combinations of L-Gauge track which form a transition curve and terminate at 8-stud intervals.

Transition 90° Curve:



Progressive 180° Curves:

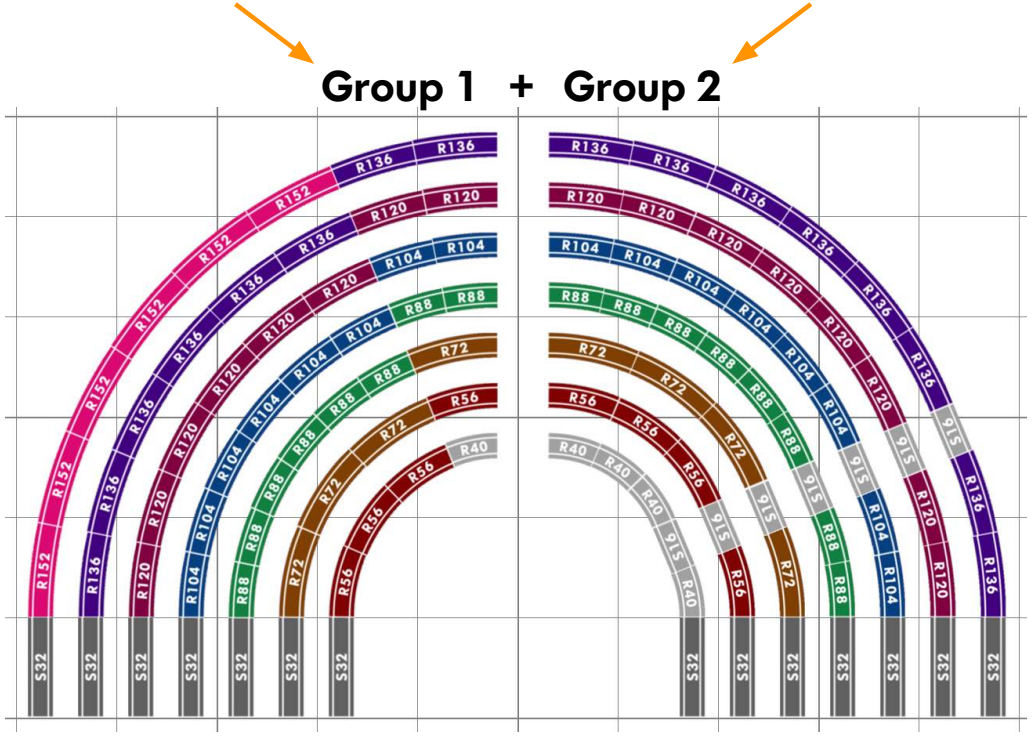


32 stud (256 mm) grid

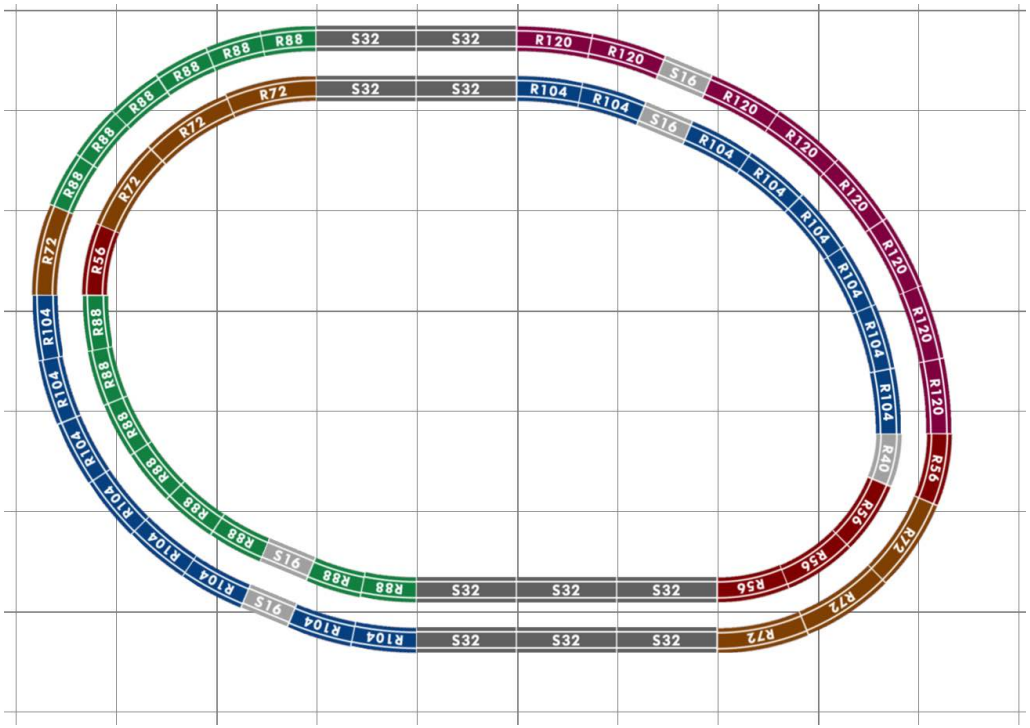
Loop Variety 1

Full circle and 180° loops do not have to be made uniformly with the same curve track element. Two families of asymmetric loop configurations can be used to make perfect grid-aligned circles or 180° loops.

To make an asymmetric loop, combine any 90° segment from **Group 1** with any 90° segment from **Group 2**:



Example:

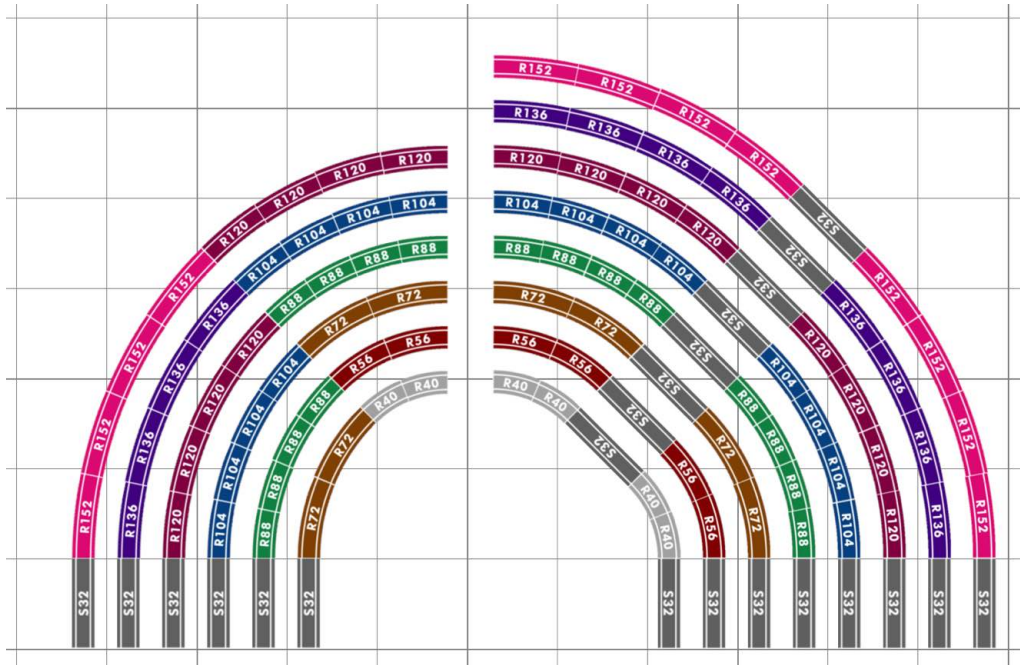


32 stud (256 mm) grid

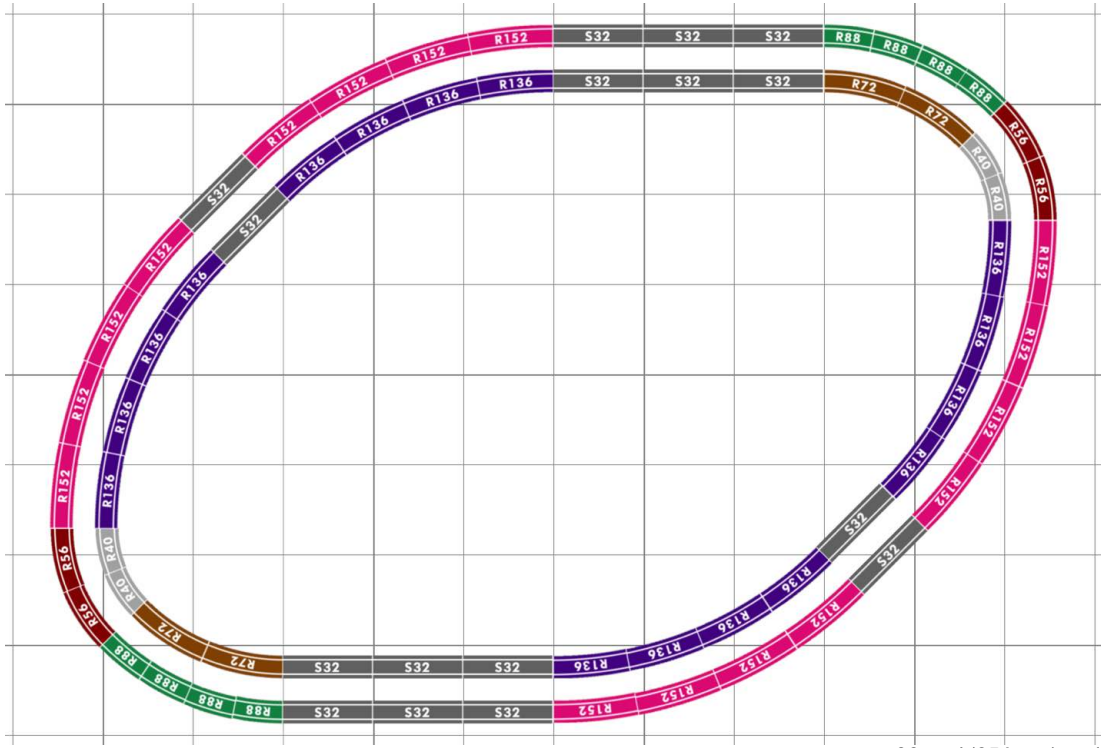
Loop Variety 2

To make an asymmetric loop, combine any 90° segment from **Group 3** with any 90° segment from **Group 4**:

Group 3 + Group 4

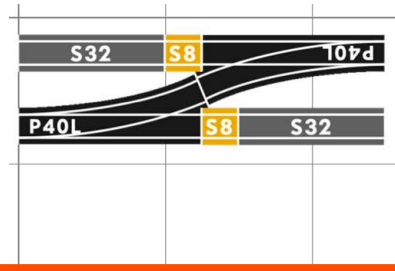
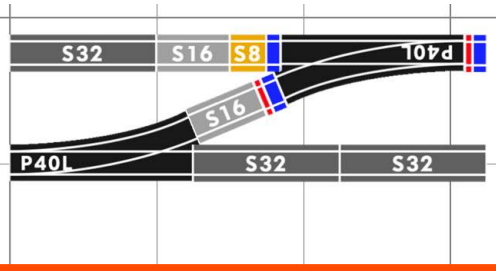
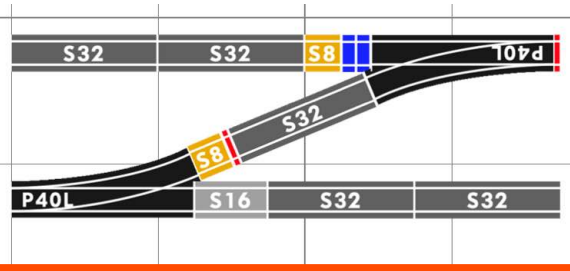
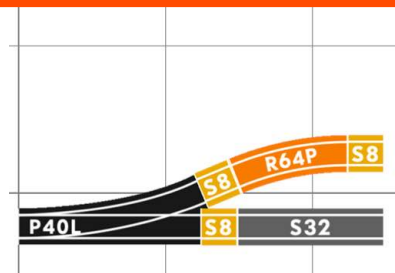
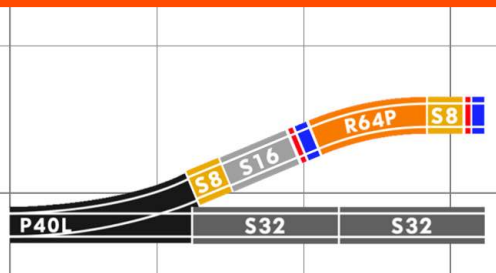
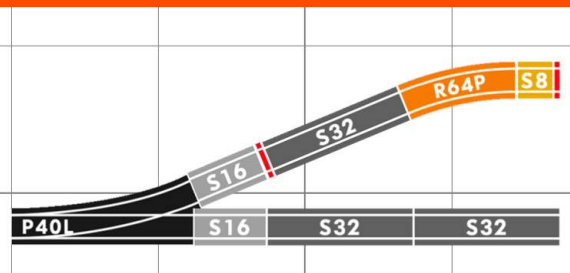
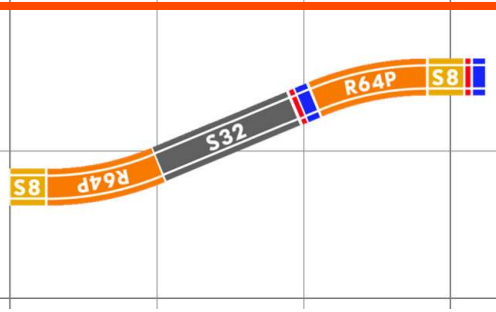
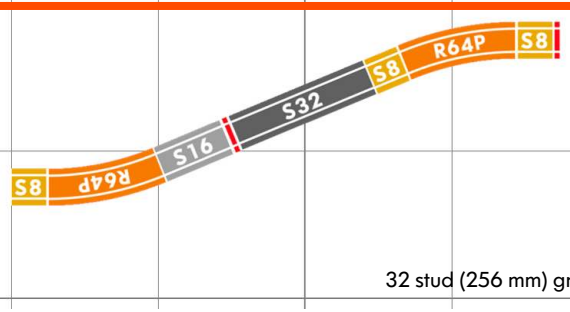


Example:



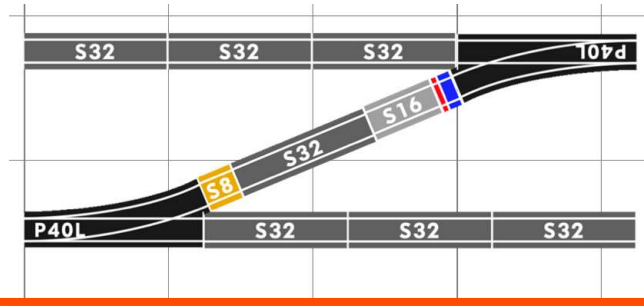
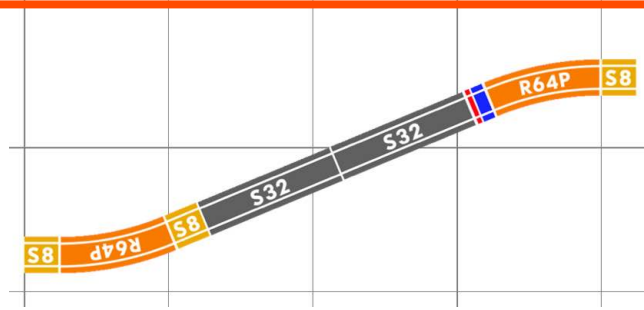
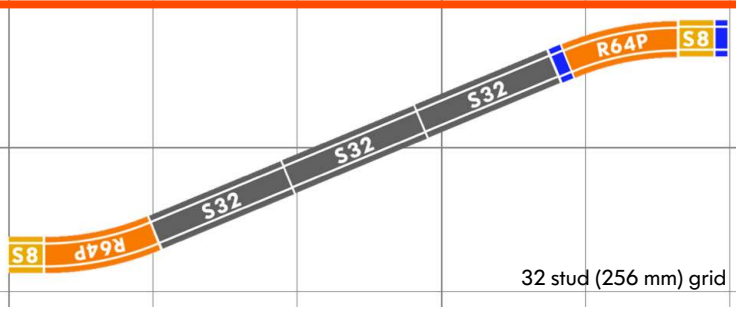
32 stud (256 mm) grid

Parallel Track 1

Offset:	16 studs	24 studs	32 studs
Crossover			
Siding			
S-Bend			

32 stud (256 mm) grid

Parallel Track 2

Offset:	40 studs	48 studs
Crossover		
Siding		
S-Bend		

32 stud (256 mm) grid

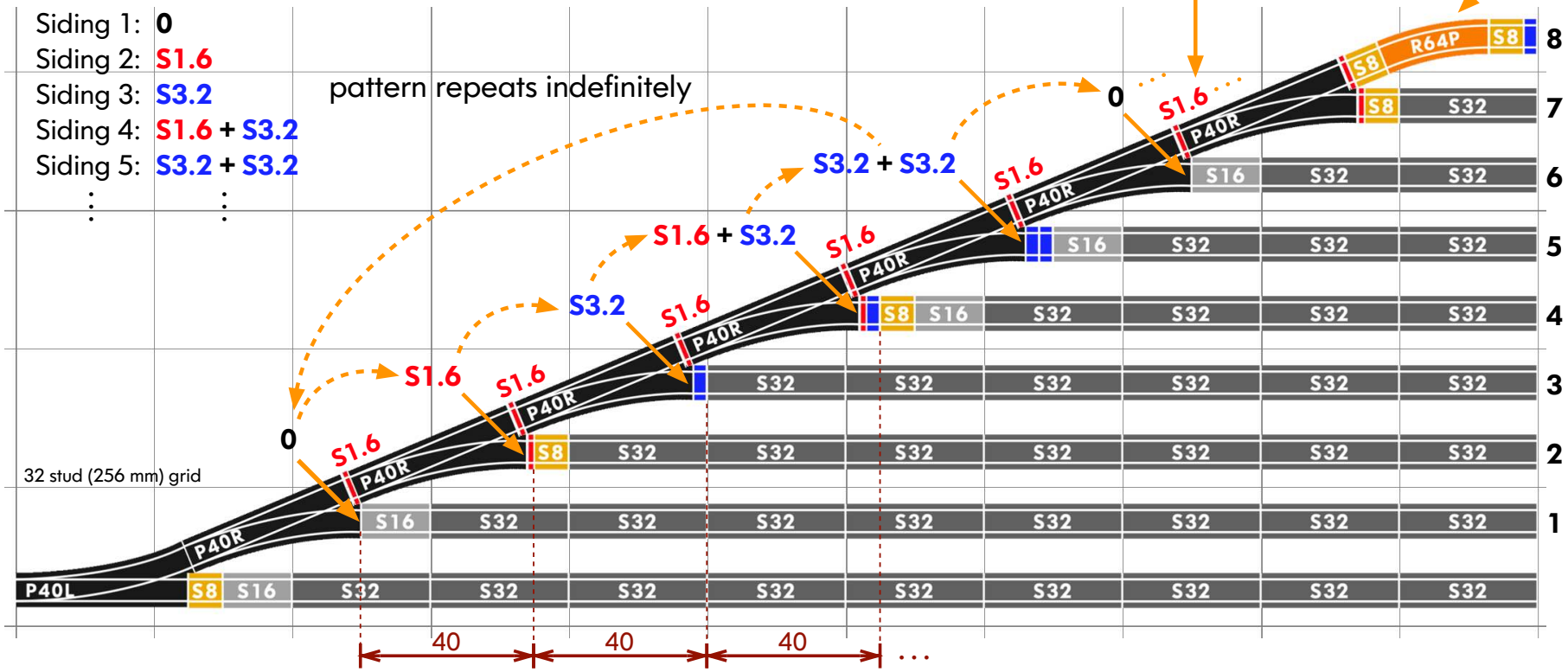
Yard Ladders

Yard ladders of any size with 8-stud grid alignment can easily be constructed with the **P40** switch. Follow these simple guidelines to build a yard ladder of your choice:

1 Add repeating combinations of **S1.6** + **S3.2** straight tracks to align sidings to perfect 8 stud intervals

2 Separate each **P40** switch with a **S1.6** after the first siding

3 Substitute a **S8**+**R64P**+**S8** in the last siding



Plans

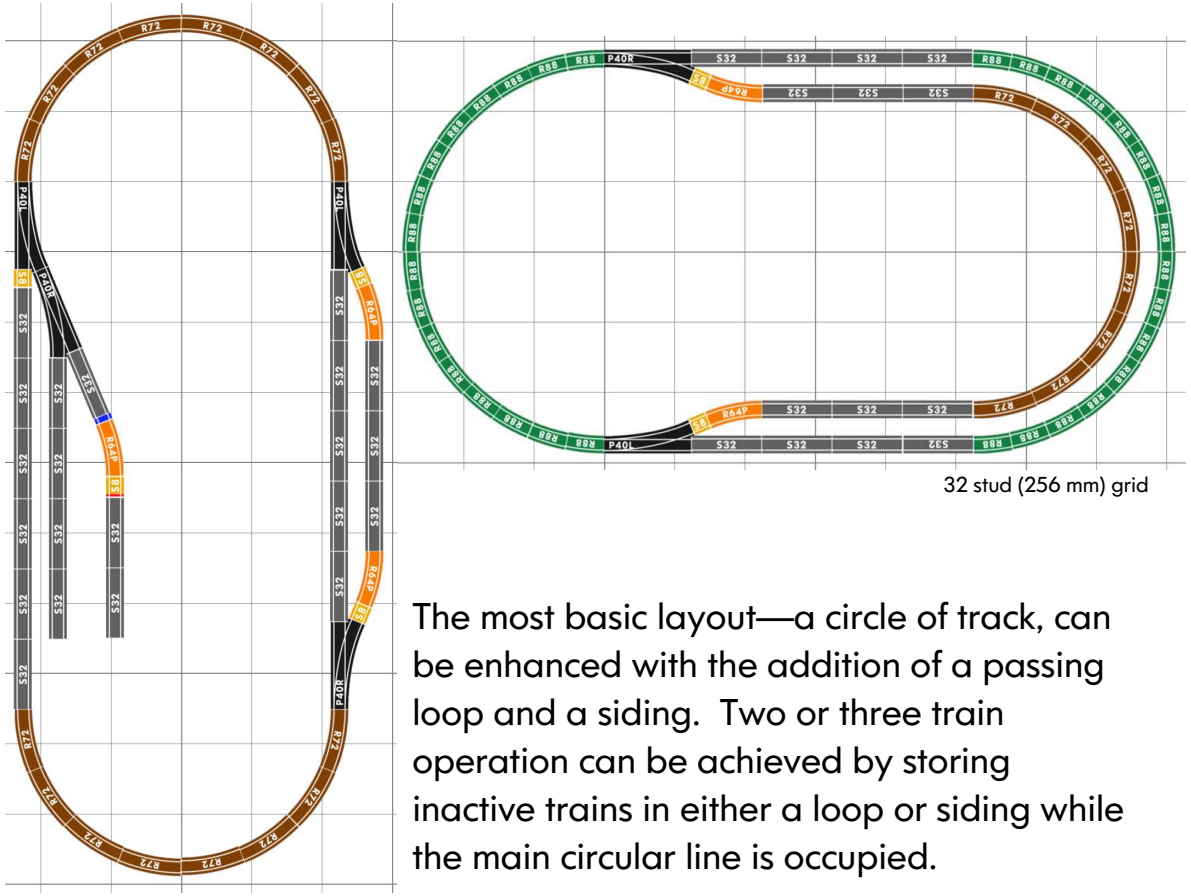
Plan 1 : Simple Loops
Plan 2 : Nested Loops
Plan 3 : Double Track L-Shape
Plan 4 : Switching Layout
Plan 5 : Mainline Switcher
Plan 6 : Compact Mainline
Plan 7 : Mainline with Storage
Plan 8 : “Dog-Bone”
Plan 9 : Industrial Switcher

Layouts

Get inspired with some sample layout designs. Learn how different operational and visual design elements can be combined into awesome layouts!

Plan 1a/b

Simple Loops

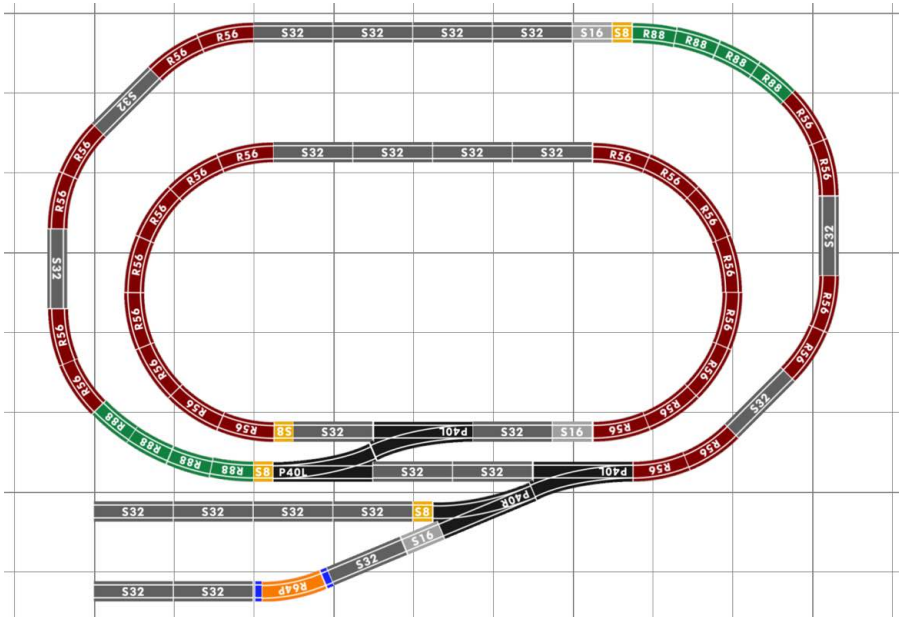


32 stud (256 mm) grid

The most basic layout—a circle of track, can be enhanced with the addition of a passing loop and a siding. Two or three train operation can be achieved by storing inactive trains in either a loop or siding while the main circular line is occupied.

Plan 2

Nested Loops



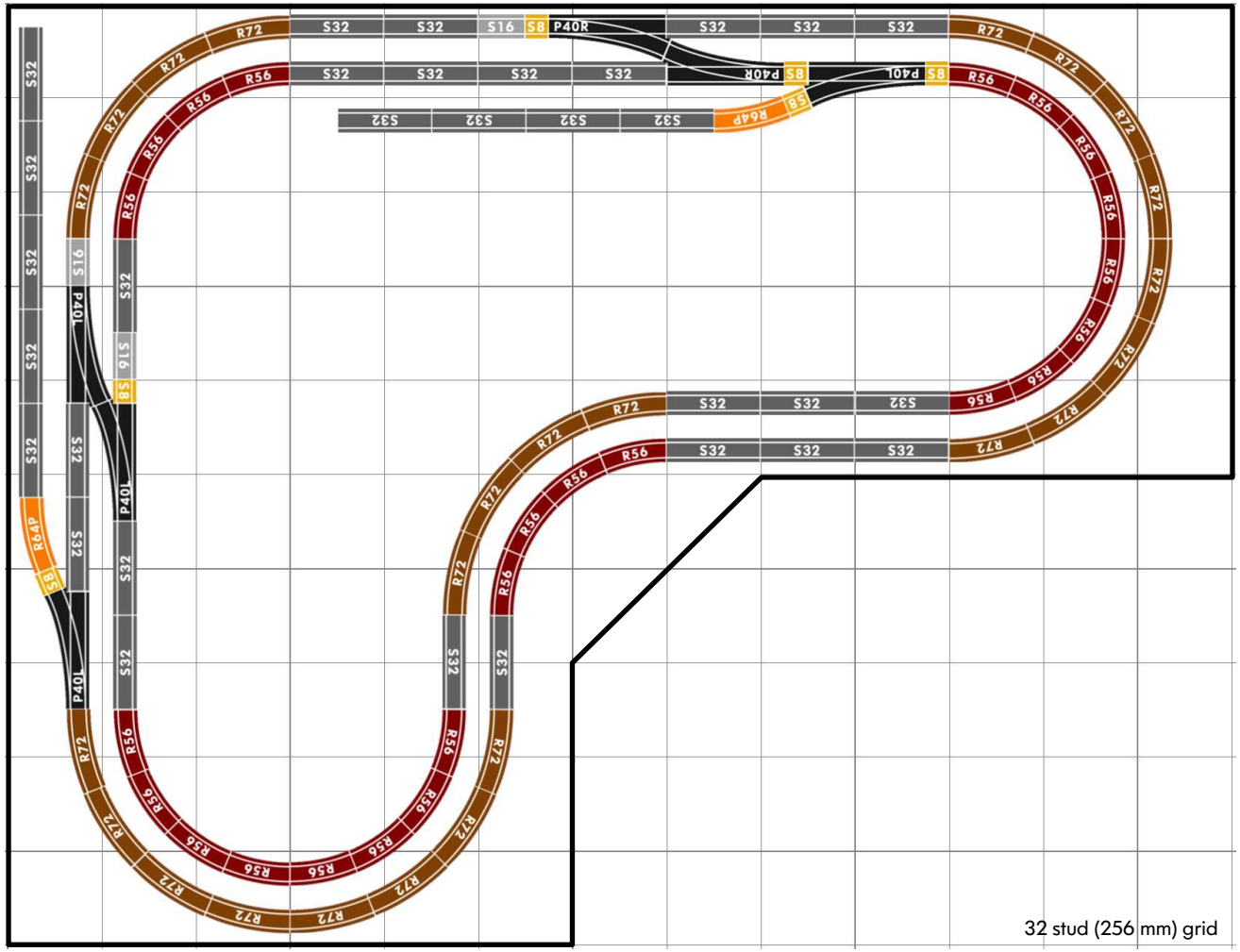
Simultaneous two train operation can be accommodated with two nested loops of track. By building the outer loop asymmetrically, it adds visual interest and makes for a compact layout. The addition of a crossover and two storage sidings add operational interest for simple switching operations and storage of trains.

Plan 3

Double Track L-Shape

A double track continuous loop can be configured into a L-shape to add visual interest and to form the basis of layout which can be extended in length as desired. Furthermore, the curve radii can be substituted to make a larger loop in either arm of the layout. This layout includes two crossovers and two sidings for more interesting operational possibilities.

Dimensions: 3.2 m x 2.6 m

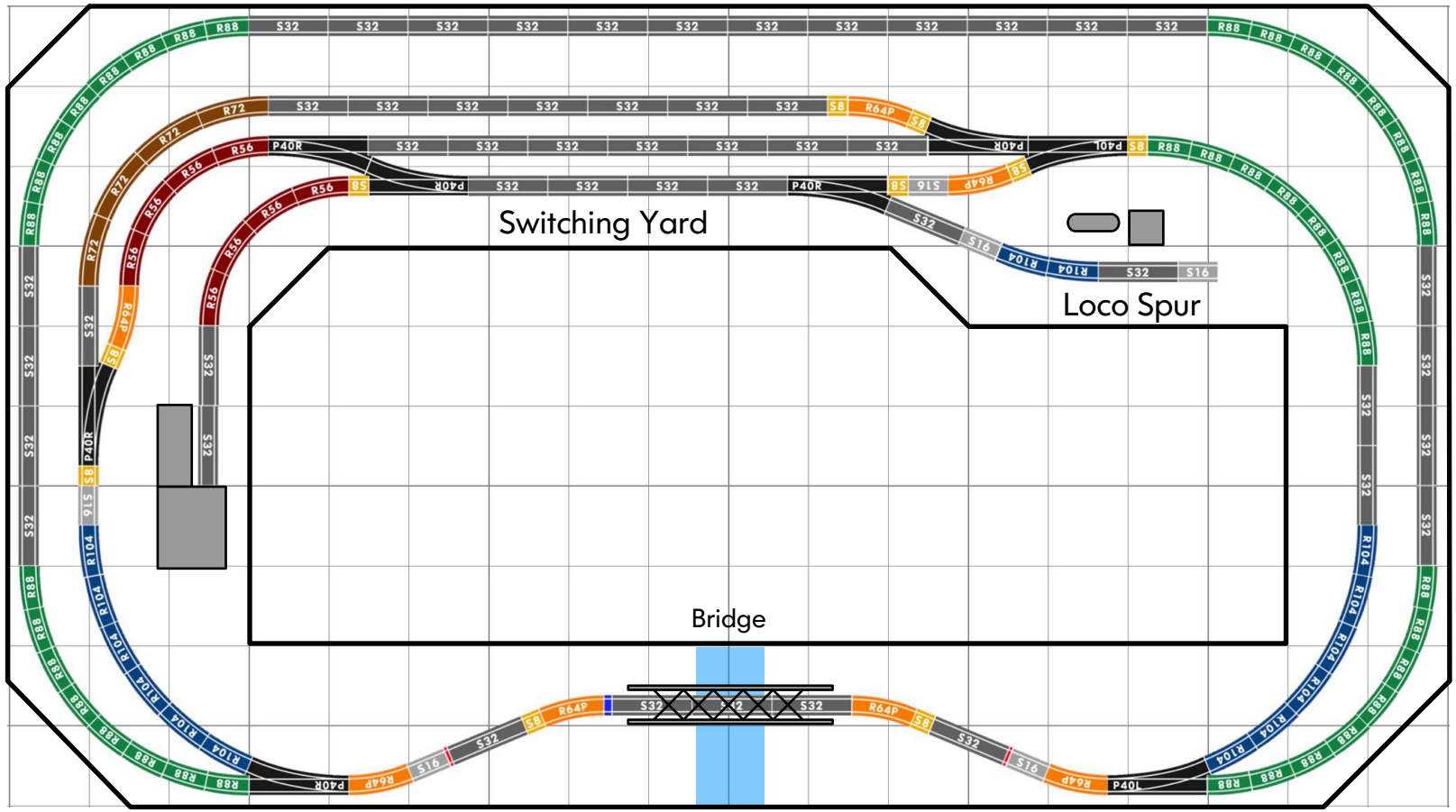


Plan 4

Switching Layout

Switching or shunting can be a great way to enjoy a layout. This layout includes a compact switching yard with two passing loops and two spur sidings. Trains can be marshalled into new wagon consists using the loops and a switching locomotive can be stored in one of the spur sidings. Lastly, a train can be operated continuously on the outer loop during shunting operations for a more dynamic layout. The outer loop includes an S-bend on the bottom for visual interest.

Dimensions: 4.6 m x 2.3 m



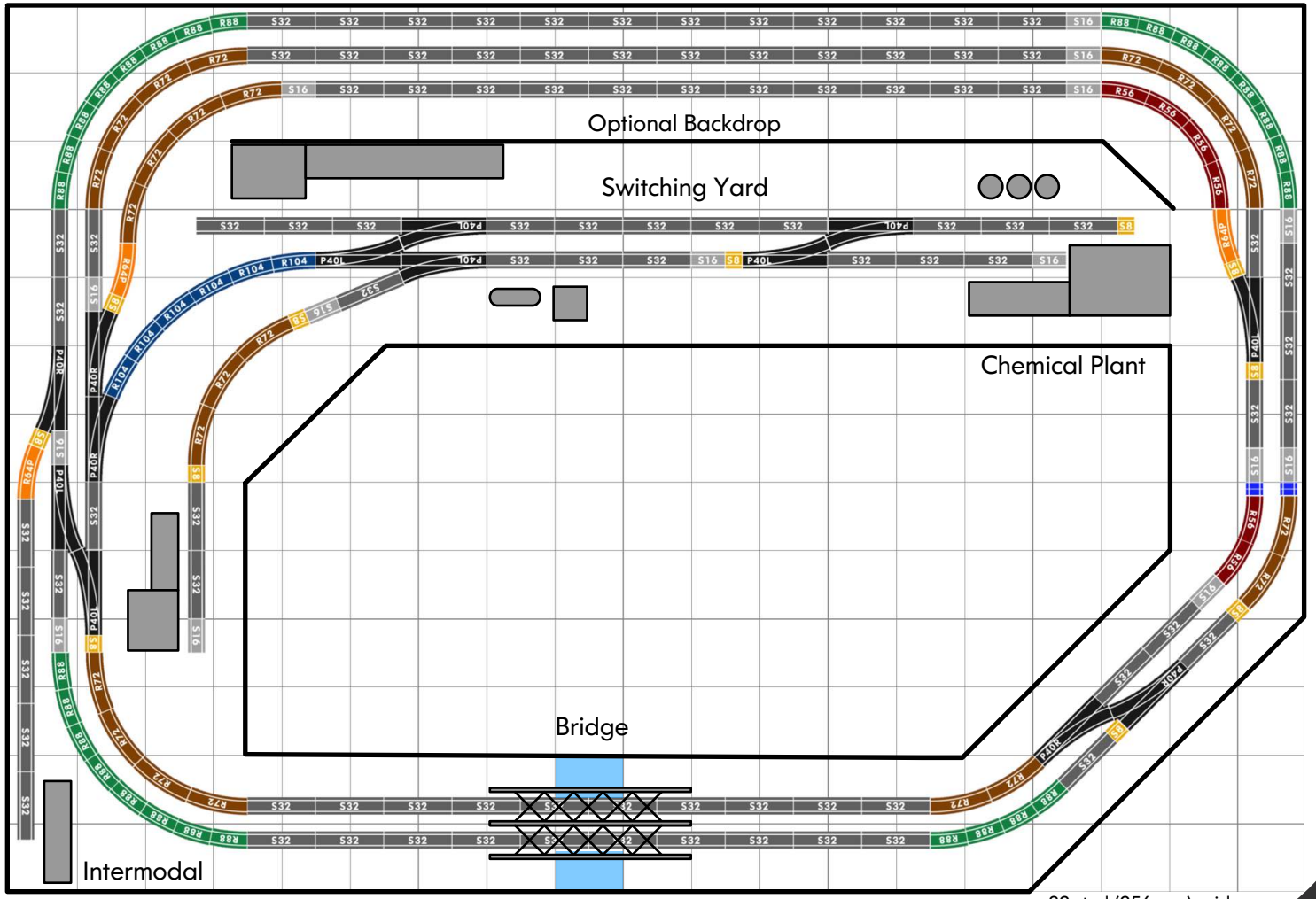
32 stud (256 mm) grid

Plan 5

Mainline Switcher

This layout represents a double track mainline with operational interest offered by switching operations. The mainline has a long passing loop for train storage or for simulating passing operations. Switching activities are performed with a simple spur siding off of the outer mainline and a compact yard with spur sidings off of the inner mainline. Crossovers extend operation by allowing trains to switch to either mainline track. A 45° bend is added to one corner to add visual interest make the layout slightly more compact.

Dimensions: 4.9 m x 3.3 m



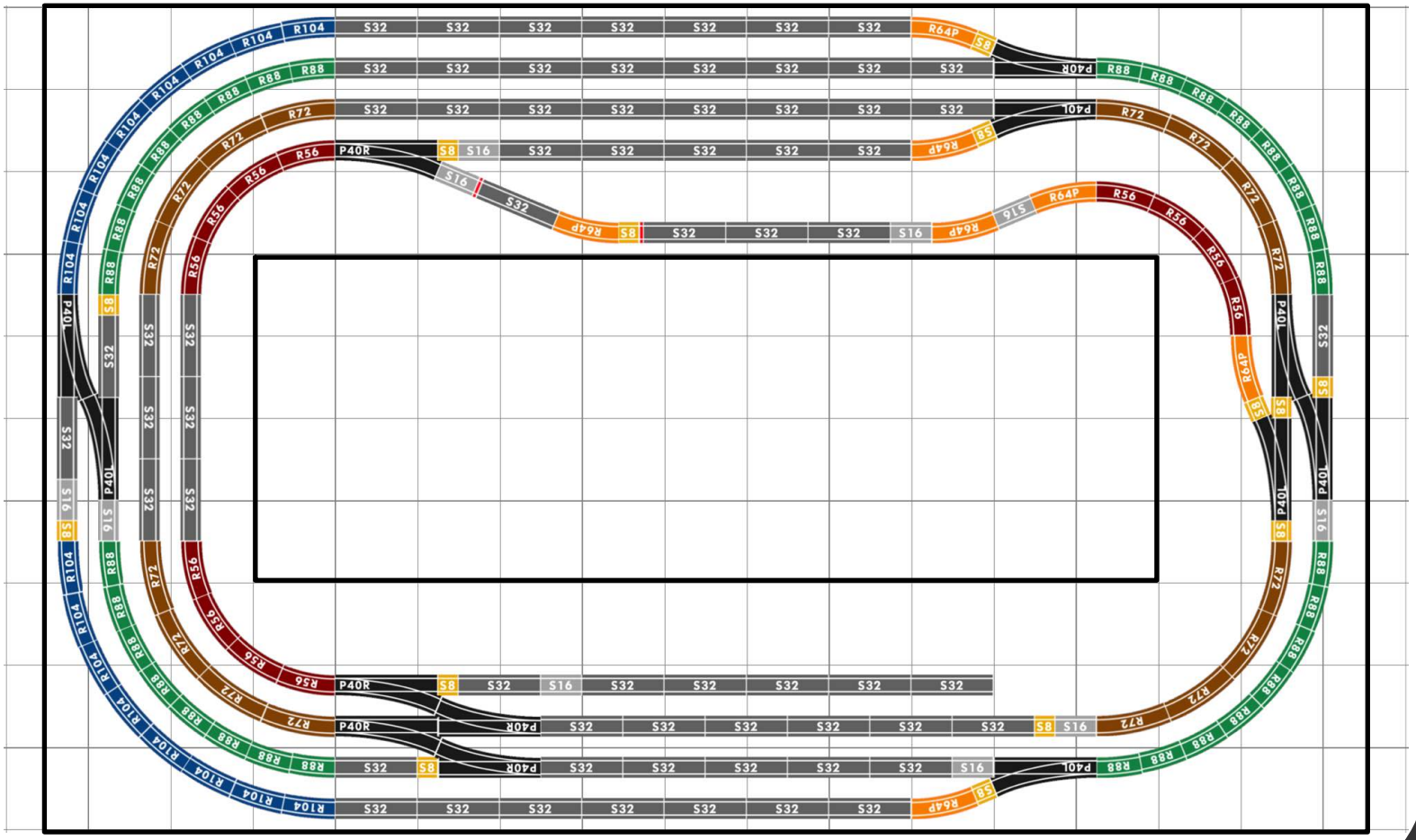
32 stud (256 mm) grid

Plan 6

Compact Mainline

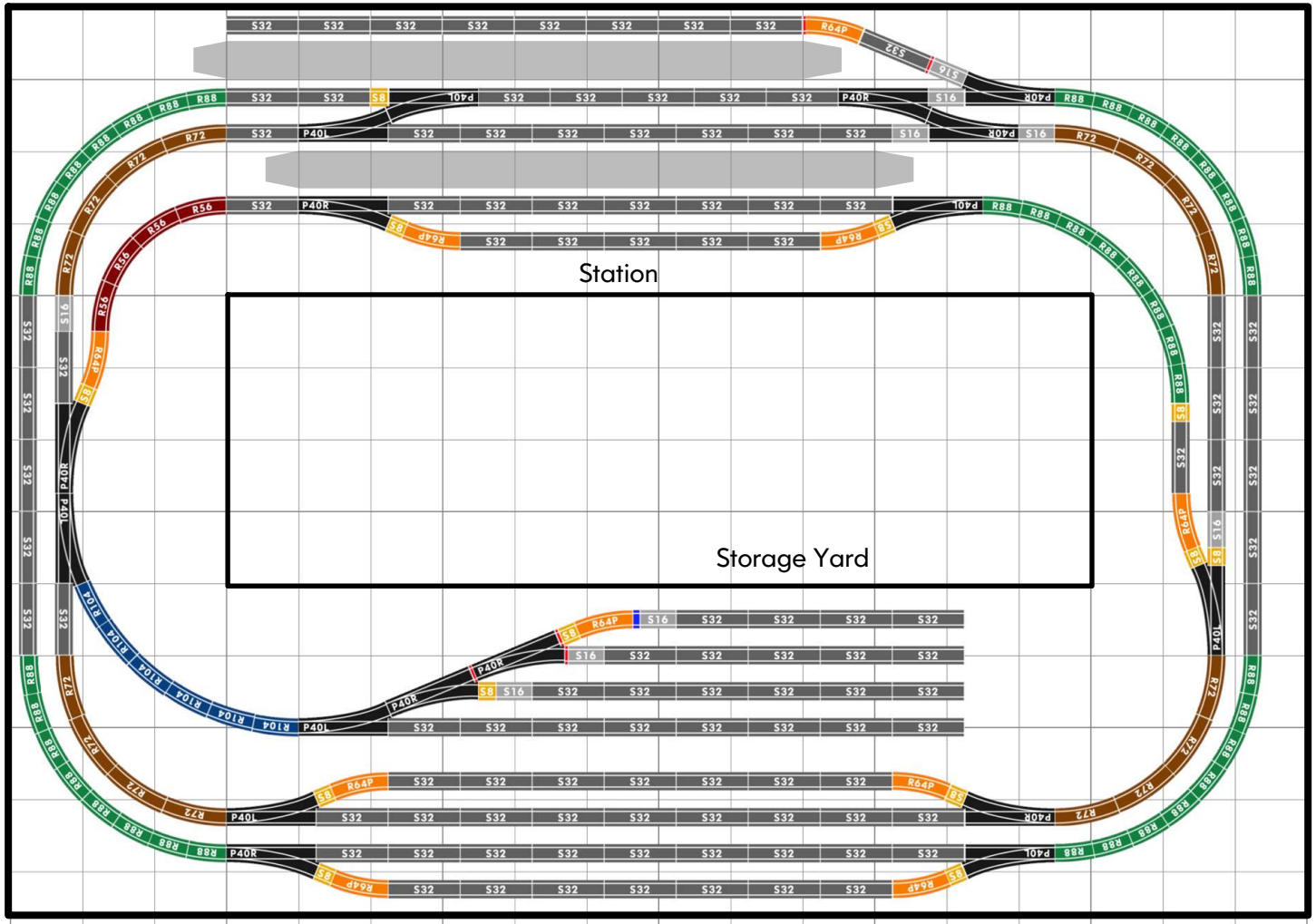
This layout aims to to offer mainline operation in a compact space. A continuous double track mainline is the core of the layout. The mainline is flanked on either side with a wrap-around passing loop for parking other trains. The outer passing loop is further sub-divided with a crossover and therefore can accommodate storing two trains. The inner passing loop features an extended spur siding and an auxiliary loop which can represent a station area or simple yard.

Dimensions: 4.2 m x 2.5 m



32 stud (256 mm) grid

Plan 7



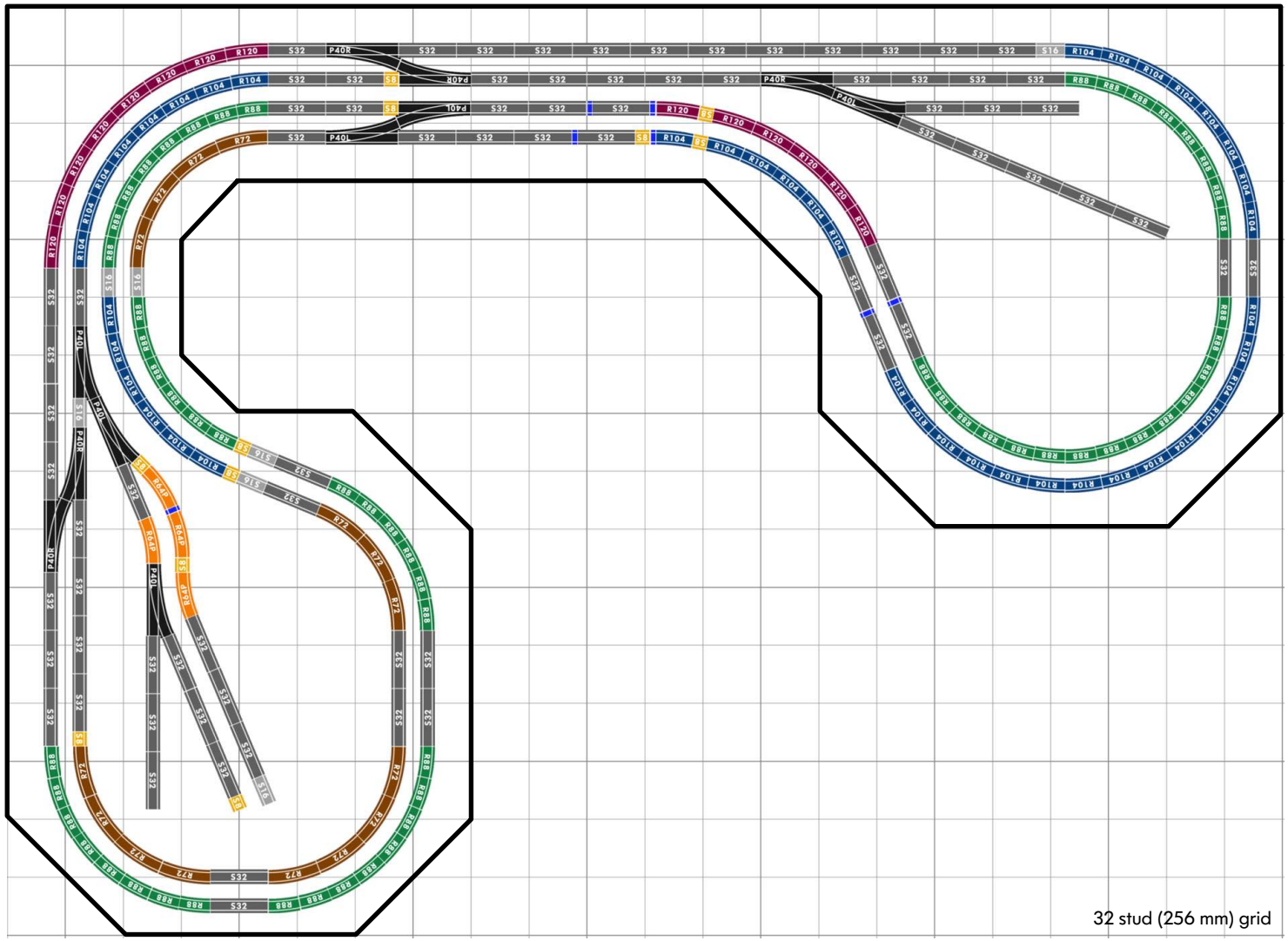
32 stud (256 mm) grid

Mainline with Storage

This mainline layout supports continuous operation of two trains and offers generous storage for other trains and rolling stock. The top half of the layout can represent a passenger station with centre island platform and platforms on either side of the mainline. The bottom half of the layout can represent a yard and can showcase your collection of rolling stock while not in use. Multiple passing loops and crossovers allow flexible operational possibilities for train turnover and shunting.

Dimensions: 4.6 m x 3.3 m

Plan 8

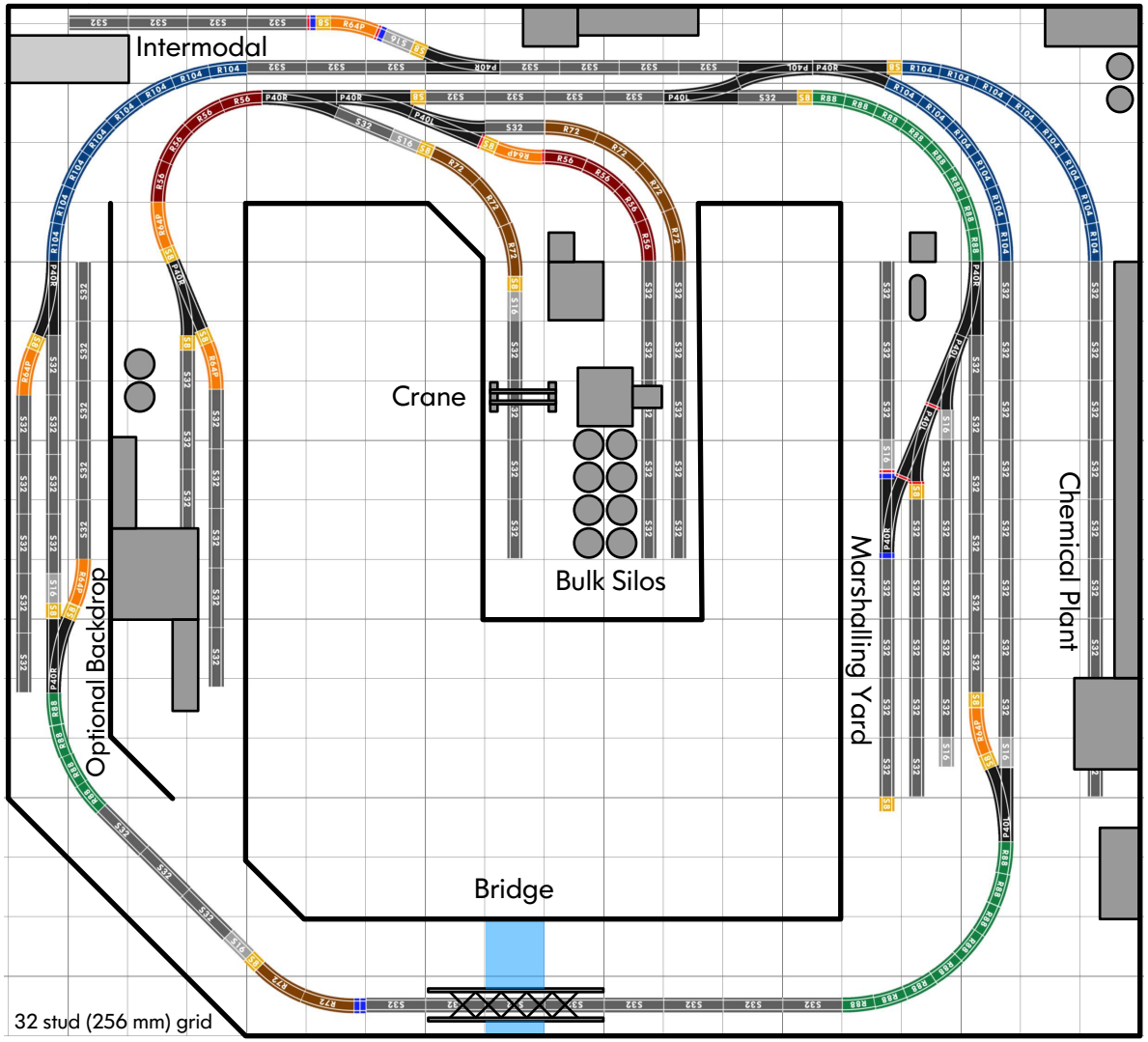


"Dogbone" Mainline

This large layout features a double track mainline configured into a so-called "dog-bone" shape. This shape efficiently packs a long length of continuous track into a compact space. The dog-bone is also visually interesting and the enclosed loop-ends offer many creative possibilities. For example, they can accommodate sidings (as shown here) or they can be filled with a mountain landscape with tunnels or with an urban town with buildings and roads. Either way, the enclosed landscape acts as a natural view block making the layout appear larger than it is.

Dimensions: 5.6 m x 4.0 m

Plan 9



Industrial Switcher

If you love switching, then this layout is for you! This layout features multiple spur sidings branched off of a continuous circuit mainline. These spur sidings can accommodate a variety of industrial customers such as chemical plants, oil and fuel depots, intermodal exchange, grain and bulk powdered goods, small industrial goods, etc. The possibilities for decorating this layout with industry are endless. The right side of the layout features a small yard for marshalling operations and for exchange with a mainline train. The left side of the layout is intended for “off-site” storage of trains and can be expanded as desired to accommodate more trains and/or longer consists.

Dimensions: 4.9 m x 4.5 m

Track Plan Parts List

Plan	S1.6	S3.2	S8	S16	S32	R56	R72	R88	R104	R120	P40L	P40R	R64P	Total
1b	1	1	4		21		16				2	2	3	**50**
1a			2		14		8	32			1	1	2	**60**
2		2	4	3	23	28		8			3	1	1	**73**
3			6	3	31	24	24				4	2	2	**96**
4	2	1	10	6	50	8	4	40	14		2	6	7	**150**
5		4	11	15	94	6	23	28	6		8	5	3	**203**
6	2		15	10	66	12	16	32	16		7	6	7	**189**
7	4	1	13	9	108	4	16	40	6		8	9	10	**228**
8		7	11	7	77		15	58	42	14	6	5	4	**246**
9	8	6	19	9	105	8	9	20	22		6	9	7	**228**

Fx Track Catalog
Summer 2021

1-22-8000-2021-06-01

Printed in Canada