# Tips and Tricks To Improve Backdrops

Adding to the realism of your model railroad with backdrops.

### Author and Photographs

- ◆ David A. Ellis June 2025
- http://gnbranch.blogspot.com
- ▲ Additional photograph: Dick Bradley MMR®

"Tips and Tricks to Improve Backdrops" presentation by David Ellis ©2025

### Learning Objectives

- ♦ Review AP Scenery requirements for "Background"
- Explore "Tips and Tricks" for improving realism
- Disguise 90° angles where the backdrop meets the benchwork
- View and analyze examples of model railroads and their backdrops

### NMRA AP Scenery

- ▶ Background is 1/5 of "score" and should:
  - Realistically depict depth, distance, horizon, and sky.
  - Match scenery.
  - Smoothly transition to 3D portion.

#### Mindheim: Realism Tips

Article in March 2017 Model Railroader Magazine

- ♦ Effective backdrops one of "four cornerstones of realism"
- "The simpler and more toned down, the better"
- ♦ KISS: simple blue surface and low horizon
- ♦ Structure skyline: short and at 90° viewing angle
- Pitfall when waterway or road in layout meets backdrop

#### Not Just Realism, but . . .

- Help to establish your railroad's:
  - Season
  - Geographic Location
  - ♦ Era?
- Help to establish tone, atmosphere, mood

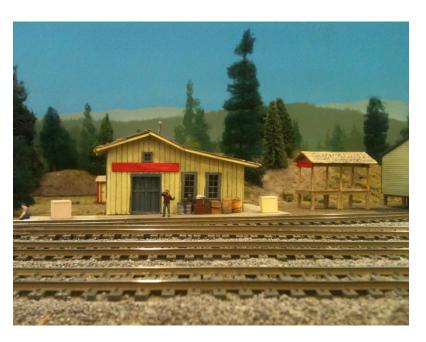
### Tricks and Tips: Overview

Creating Depth and Expanding the Modeled World

Tabletop Height or Seams Break the Illusion.







### Realistically Depict Sky Cove Corners & Hide Seams



#### Cove Corners and Hide Seams



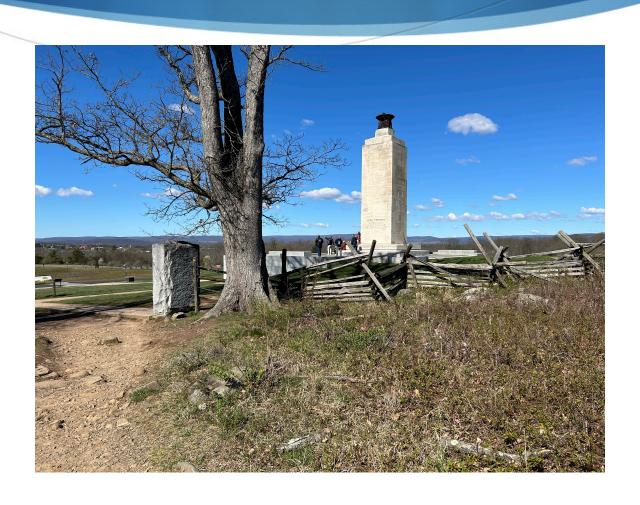


#### Cove Corners and Hide Seams

- Typical wallboard techniques
- Fiberglass tape
- Three coats of joint compound



#### Realistically Depict Sky Fade Towards Horizon

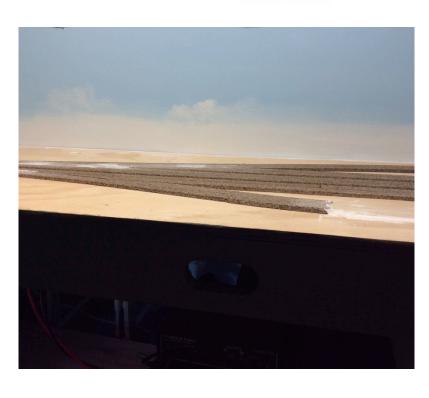


### Realistically Depict Sky Fade Towards Horizon

- Prime or paint with spray or roller
- Just a simple blue or gray color
- ◆ Fade blue into white at horizon

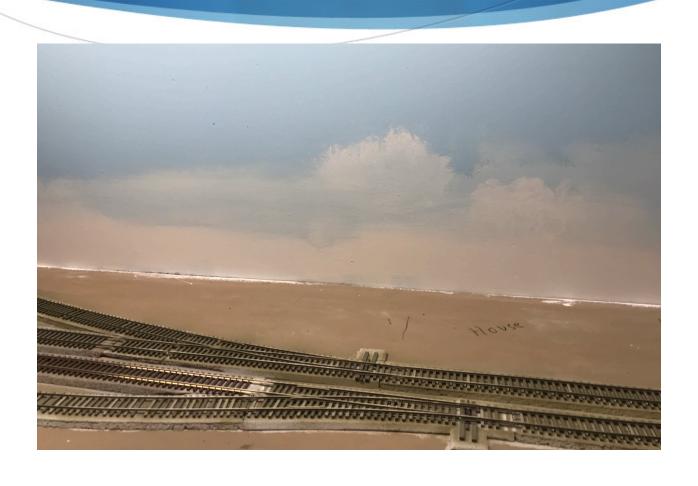


# Realistically Depict Sky What About Clouds?



- KISS principle— Maybe just faded blue or gray?
- Stencil and spray
- ♦ Use of airbrush
- Painted clouds
- ♦ Subtle, not solid

# Realistically Depict Sky Clouds: Paper Towel Technique



### Realistically Depict Sky

Bernie Kempinski's Primer Wash Technique



### Painted Versus Photo Backdrop

In either case the backdrop should be the background, not as detailed or intense as the trains.

- Beyond the sky, painted backdrops work best with natural subjects such as hills, fields, and trees.
- Simple impressions rather than cartoon or overly detailed.
- Most "experts" recommend using painted sky, even with photo backdrop.
- Photo backdrop is best for cities or buildings. Try to avoid conflicting perspectives or scales.

### Tony Koester: Kitbashing Photo Backdrops Article in June 2018 *Model Railroader* Magazine

- Adobe's Photoshop Elements
- Clone, skew, and paintbrush tools
- Cutting and pasting digital and commercial photos
- ♦ Hobby knife, Pan Pastels, 3M Super 77

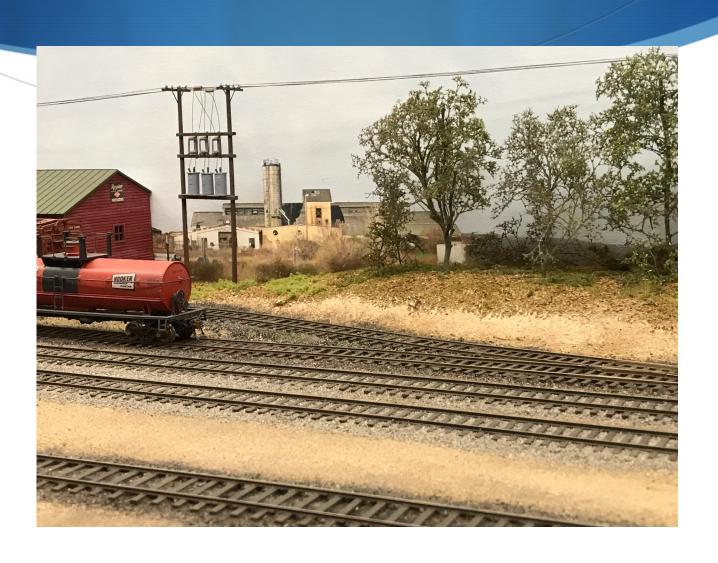
### Tony Koester's Nickel Plate Road



#### Paul Dolkos: Tips for Blending Backgrounds Article in June 2018 *Model Railroader* Magazine

- ◆ Small photo prints less than 4" tall: low horizon line
- ♦ Located between 3D elements: "visual foils"
- Structure flats
- Home printer, matte paper, sky cut off, edges touched up with colored pencils, Dullcoat

### Paul Dolkos's *Baltimore Harbor District*

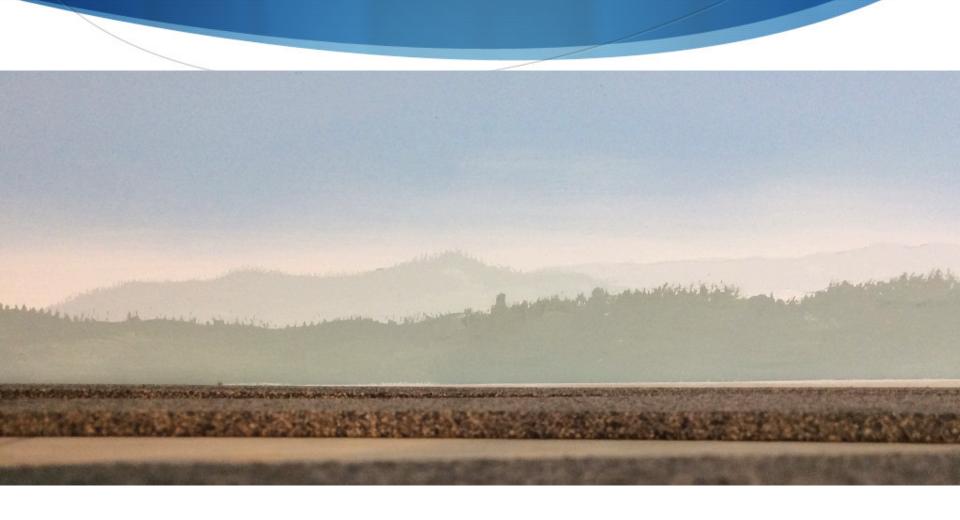


### Paul Dolkos's *Baltimore Harbor District*



### Tricks and Tips: Using Color

Creating Depth and Expanding the Modeled World



### Tricks and Tips: Using Color

Creating Depth and Expanding the Modeled World



- Related colors on layout and backdrop
- Scenery and backdrop paints
- Scenery materials and backdrop colors
- Scale!

### Using Paints & Color



## Problems and Solutions Shadows and Edges on Backdrops

- Problem: Shadows on the backdrop/sky
- Solutions: Lighting,
   Shadows on objects with
   3D layering techniques
- Problem: Edges meeting backdrop
- Solutions: Hide edges



### Quick Review of Perspective

#### **Two Point Perspective**

#### **One Point Perspective**

Horizont

Fluchtpunkt

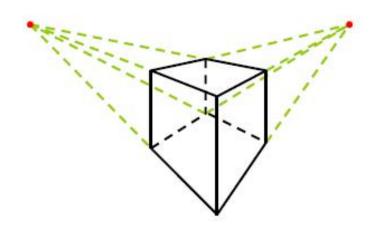
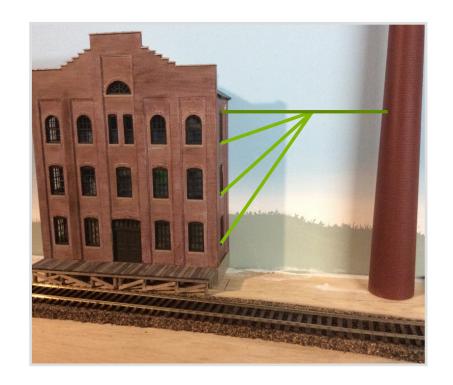




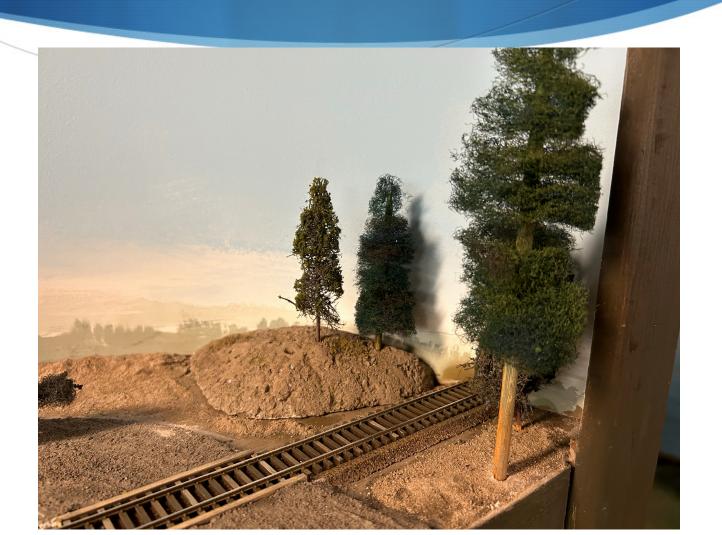
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#### Problems and Solutions Issues with Perspective

- Problem: Conflicting perspectives, vanishing points, and horizon lines
- Solutions: Avoid numerous vanishing points on different horizon lines

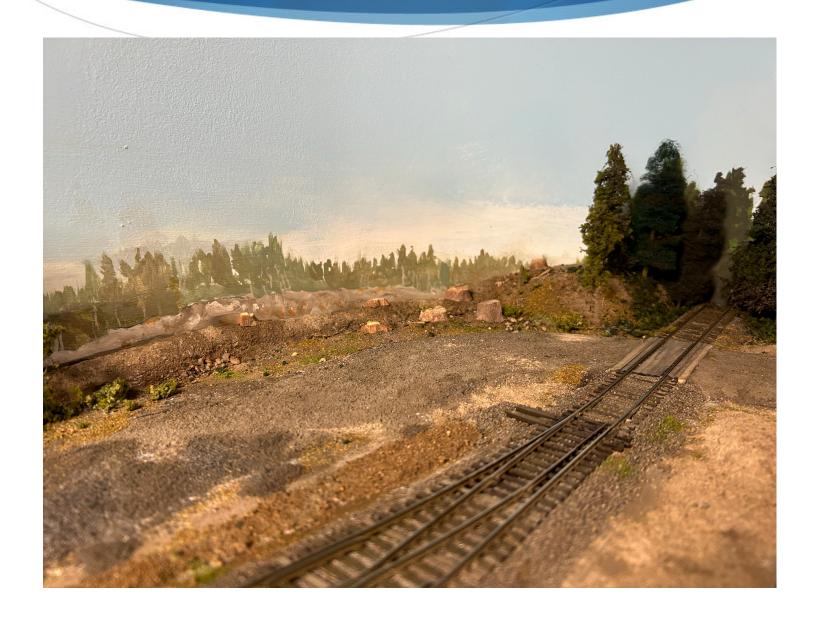


#### **Problems** and Solutions Shadows on Backdrops



### Problems and **Solutions**Shadows on Backdrops





### Tricks and Tips: Problems and Solutions



- Scenic divides
- Plan for coved corners
- Holes in the backdrop are another problem!
- Tear down RR and move, probably an overstep

### Disguising the 90° Angle

Where the backdrop meets the layout

- On the left, the dreaded 90° angle.
- On the right, foreground scenery elevated to hide the joint.
- What is working?



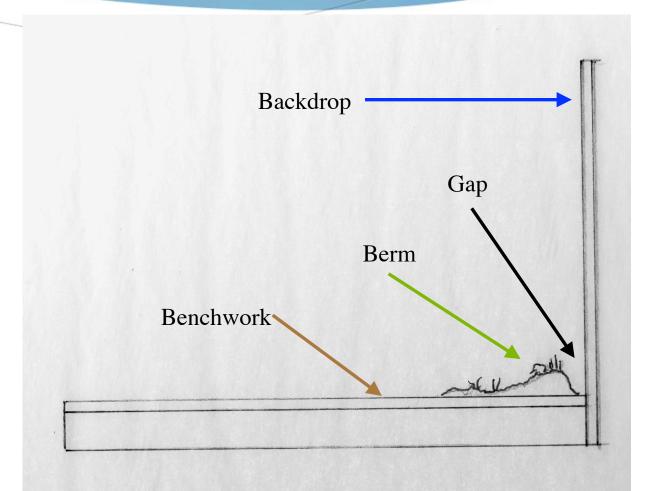
### Disguising the 90° Angle

Cove the corners!

- Wide curve with hardboard at corner
- Prototype photos
  - Personal library & field trips
  - Google Earth
  - Real estate listings



### Disguising the 90° Angle Berms and Gaps



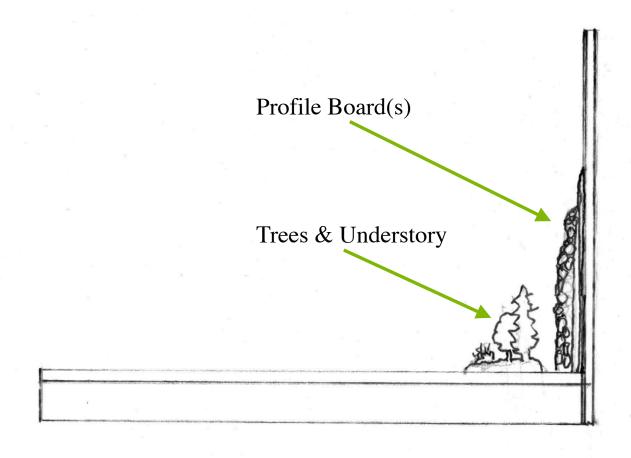
### Disguising the 90° Angle

Berms and Gaps



- Slight rise in landform in front of angle
- ◆ A slight gap gives the illusion of distance
- Foam, crumbled newspaper, plaster gauze, Sculptamold, etc.
- Additional ground cover

### Disguising the 90° Angle Profile Boards



## Jeff Mutter's Erie Lackawanna Scranton Division

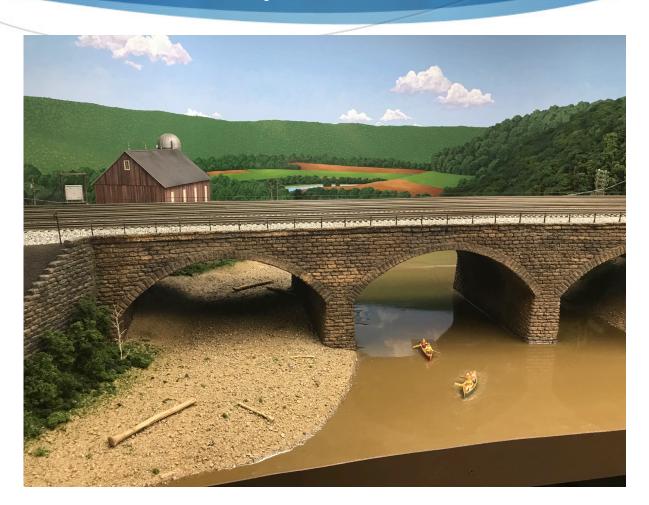


Where the backdrop meets the layout



- Rivers turn forming an acute angle
- Rivers disappear behind trees, buildings, or hills
- Use of mirror?

# Neal Schorr's Middle Division of the Pennsylvania RR



Where the backdrop meets the layout



- Roads at acute angle
- Roads dip over hillside
- Roads disappear behind trees, buildings, or hills
- Size and color of 3D hills and trees compliment backdrop ones.

## Marty McGuirk's Richford Branch of Central Vermont



Where the backdrop meets the layout



Modeling and photograph by Dick Bradley

- Photo backdrop as solution of road into backdrop.
- Low horizon photo printed on matte paper mounted on backdrop.
- Size and color of 3D scenery and backdrop compliment each other.
- Cars, trees, poles, and people all disguise the joint.

## Road "Rabbit Hole" Cove the Road

## Road Rabbit Hole Cove the Road





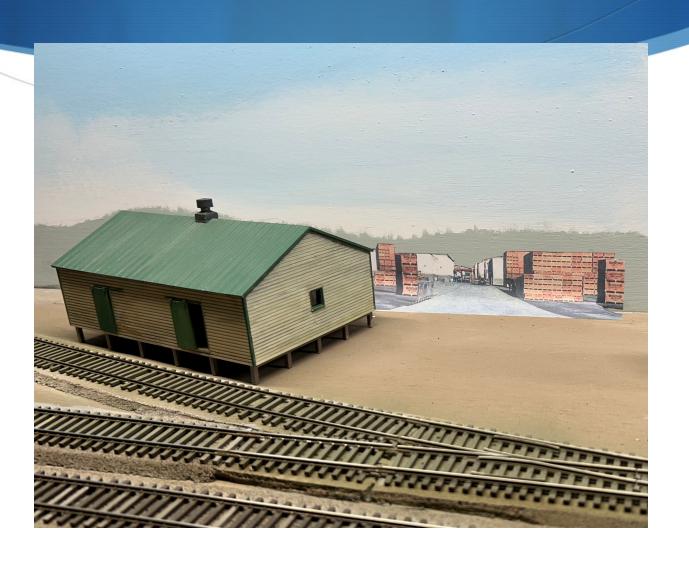


Google Image search











Where the backdrop meets the layout

#### **Natural Features**

- Distant 3D hills and trees: "profile boards" or scuff pad tree lines (Mirlon 4"X33" Ultra Fine, Gray)
- Berms or hills
- **♦** Trees
- Shrubbery

#### **Human Features**

- Buildings or Flats
- Fences
- Signs or billboards
- **♦** Trucks or other vehicles

### Tony Koester's Nickel Plate Road



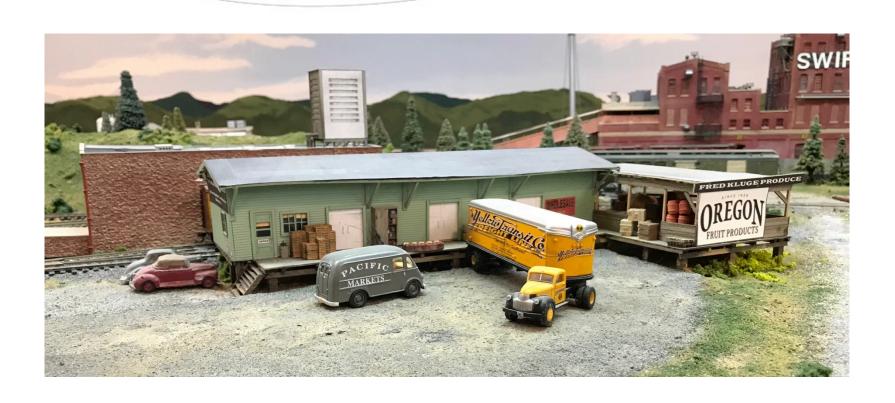
## Paul Dolkos's *Baltimore Harbor District*



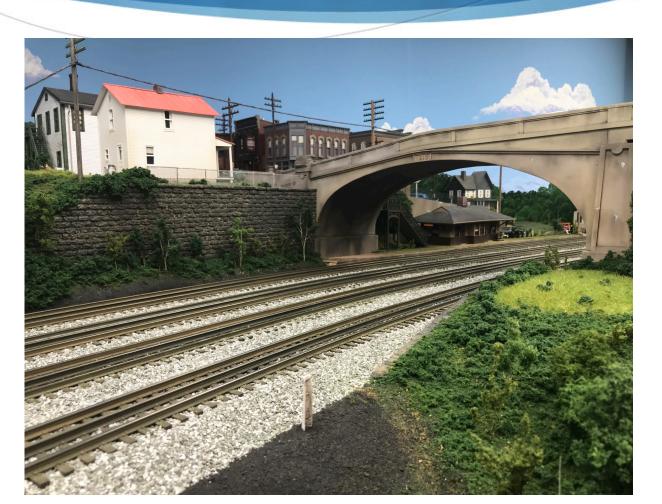
## Bernard Kempinski's *United States Military Railroad*



#### Mat Thompson's Oregon Coast Railroad



# Neal Schorr's Middle Division of the Pennsylvania RR



#### References & Resources

- https://www.nmra.org/backdrop-painting-forested-scenery
- https://www.nmra.org/edutrain/blending-backgrounds-foregrounds-bruce-de-young-mmr
- https://www.nmra.org/edutrain/backdrops-tom-oxnard-mmr
- Model Railroad Planning 2021: "Beyond the Walls" by Bernard Kempinski
- Model Railroader Magazine: June 2018, Backdrop Special
- *NMRA Magazine*: April, 2017: "Quick Tube Building Forms For Backdrop Corners" by Jerry Lauchle
- Realistic Layouts by CJ Riley, Chapter 2: Secrets to Lifelike Backdrops
- <a href="https://www.modelrailroadacademy.com/video/tips-for-painting-backdrops-for-model-railroads-010359/">https://www.modelrailroadacademy.com/video/tips-for-painting-backdrops-for-model-railroads-010359/</a>
- Bernard Kempinski's blog post with a link to video with painting tips, particularly painting clouds: <a href="https://usmrr.blogspot.com/2021/03/floating-coves-and-backdrops.html">https://usmrr.blogspot.com/2021/03/floating-coves-and-backdrops.html</a>

### Questions?

Can a model railroad be art?



Mike Hauk's S&NY