

# Operations without the Aggravation

**“Car routing without all the paperwork”**



# Other Options

## Random Car Forwarding

Pick up and deliver any car, anywhere, anytime

- Pros:
  - Easy to set up
  - Never make a mistake
  - No cost
  - No rules
- Cons:
  - No real purpose
  - Not very exciting
  - Does not simulate the prototype



# Other Options

## Markers on Cars

- Place markers on cars indicating where they are to be delivered
  - Cardstock: ¼ inch by ½ inch, place on car with tweezers
  - Plastic Tabs: Uses plastic H column
  - Thumbtacks: Drill hole in car
  - Sticky notes of various kinds
- Generally incorporates color coding and lettering
  - Color can indicate town or train
  - Use single code on thumbtacks
    - Letters or Numbers
- Friendly for clubs and new operators
- Avoids having to read reporting marks



# Other Options

## Wheel Report

- One piece of paper per train
  - Does not require reading reporting marks
  - Indicates locations to be switched
  - Indicates car types to be switched
  - Pick up like cars to replace cars set out
  - Many ways of organizing the paper work

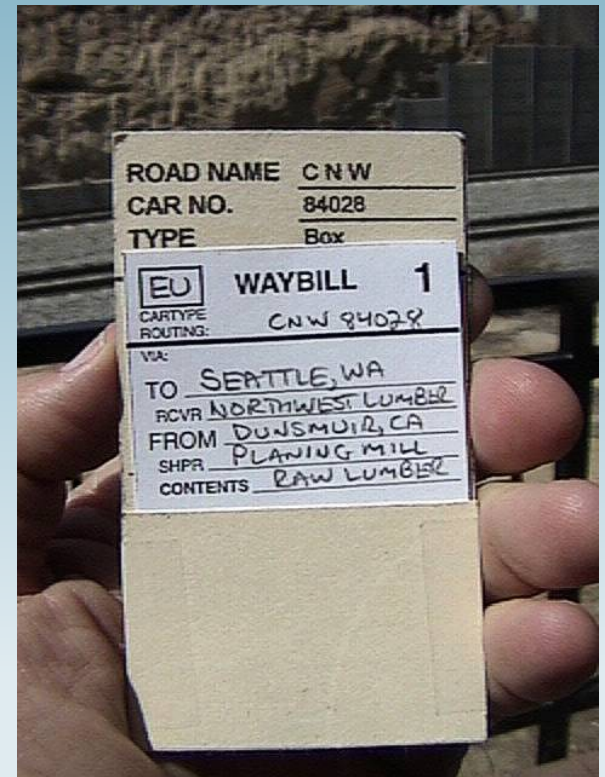
Train:	Engine:	DCC address:	Origin:	Destination:
<u>Car type</u>	<u>Destination 1</u>	<u>Destination 2</u>	<u>Destination 3</u>	<u>Destination 4</u>
Box				
Flat				
Gondola				



# Other Options

## Car Cards and Waybills

- Each car has an associated envelope labeled with the reporting remarks of the car.
- A multi-sided way bill is inserted into the envelope that shows the car's destination.
- Multi-sided way bills can show a sequence of destinations.
- Cards for cars not in trains are kept in boxes located along the railroad.



# Other Options

## Car Cards and Waybills

- Pros:
  - Easy to see where to deliver a car
  - Easy to see which cars to pick up
  - Low cost



# Other Options

## Car Cards and Waybills

- Cons:
  - Decks of cards are awkward to handle/sort during sessions
  - Requires holding boxes and sorting racks
  - Manual synchronization
  - Requires a lot of setup time and work (Manual or Computer)



# Switch Lists

- | Virginia Midland Switch List                  |      |        |    |      |         |  |
|---|------|--------|----|------|---------|--|
| Date: 10-2-11                                 |      |        |    |      |         |  |
| Train: V110 Yard Job                          |      |        |    |      |         |  |
| Depart time: 7:20                             |      |        |    |      |         |  |
| Locomotive(s): 299 -266r                      |      |        |    |      |         |  |
| <b>Industry Work at: Specialized Beverage</b> |      |        |    |      |         |  |
| Seq   | Car  | #s     | WI | Spot | Remarks |  |
| 1   | C    | 917    | PL | 1    | ✓       |  |
| 2   | 1AQR | 2600   | PV |      | ✓       |  |
| 3   | VG   | 1004   | PV |      | ✓       |  |
| 4   | SF   | 274337 | PL | 2    | ✓       |  |
| 5   | DME  | 59529  | PL | 3    | ✓       |  |
| 6   |      |        |    |      |         |  |
| <b>Industry Work at: Mid-Atlantic Foods</b>   |      |        |    |      |         |  |
| Seq   | Car  | #s     | WI | Spot | Remarks |  |
| 1   | 5XT  | 192831 | PV |      | ✓       |  |
| 2   | ABOX | 50496  | PL | 1    | ✓       |  |
| 3   | KFP  | 4076   | PL | 2    | ✓       |  |
| 4   |      |        |    |      |         |  |
| <b>Industry Work at: Old Dominion Foods</b>   |      |        |    |      |         |  |
| Seq   | Car  | #s     | WI | Spot | Remarks |  |
| 1   | UPFE | 548068 | PV |      | ✓       |  |
| 2   | BNFE | 19570  | PL | 1    | ✓       |  |
| 3   |      |        |    |      |         |  |
| 4   |      |        |    |      |         |  |
| <b>Industry Work at: Patriot Industries</b>   |      |        |    |      |         |  |
| Seq   | Car  | #s     | WI | Spot | Remarks |  |
| 1   | 1AFX | 86471  | PV |      | ✓       |  |
| 2   | 6ATX | 45422  | PL |      | ✓       |  |
| 3   | 7LTX | 671685 | PL | 1    | ✓       |  |
| 4   | 40KX | 132201 | PL |      | ✓       |  |
| <b>Industry Work at: American Wood Co.</b>    |      |        |    |      |         |  |
| Seq   | Car  | #s     | WI | Spot | Remarks |  |
| 1   |      |        |    |      |         |  |
| 2   |      |        |    |      |         |  |
| 3   |      |        |    |      |         |  |
| 4   |      |        |    |      |         |  |

Industry Work at: Klotz Electrical Distributors						
Seq	Car	#s	WI	Spot	Remarks	
1	RFP	4197	PV	1	✓	
2	CO	498221	PV	2	✓	
3	NS	490665	PL	1	✓	
4	KFP	48250	PL	2	✓	
6						

Key:	
WI	work instruction
PV	pick-up
PL	place
RM	reporting marks
#s	car numbers

# Other Options

## Switch Lists

- Cons:
  - Significant set up time (manual or computer)
  - Manual synchronization
  - Requires clipboard or hard surface to write on

<i>Switch List Bakersfield</i>	<i>- 1 -</i>	<i>August 24, 2011 4:23 PM</i>
JMRI Operations Demo Railroad		
Switch List for Bakersfield Valid 8/24, 2011 16:23		
Scheduled work for train (LS) Lakeview - Susanville Departs Lakeview at 07:20 expected arrival 08:04, arrives Westbound		
<input type="checkbox"/> Pick up ATSF 10407 Boxcar 50' Tuscan L<oad> from yard		
<input type="checkbox"/> Set out MRL 9089 HopGrain 36' Gray L<wheat> to #68 Bkrsfld Grain		
<input type="checkbox"/> Set out SOO 177514 Boxcar 50' White L<oad> to #68 Pabsb&Son Cold Strge		
<input type="checkbox"/> Set out G&F 442 Boxcar 50' Green L<oad> to #68 Pabsb&Son Cold Strge		
<input type="checkbox"/> Set out GARE 812 Reefer Milk 38' Green E<empty> to yard		
<input type="checkbox"/> Set out N&W 42120 Boxcar 40' Black L<oad> to yard		
Scheduled work for train (BB) Bakersfield - Sweeper Departs Bakersfield Eastbound at 07:50		
<input type="checkbox"/> Pick up SP 1019 SW1200 from Engine Terminal		
<input type="checkbox"/> Pick up NH 681 Caboose 34' Black from Caboose Track		



# Other Options

## Operations Software and Resources

Free 

- JMRI Operations Module
- Flex Bill – Free Trial
- Model Operations Processing System
- Model Railroad System
- Programmable Traffic Generator
- SwitchList Generator for Macs

Commercial \$

- Protrak, RailOp
- Shiplt and Shiplt CarCards Module
- Interchange: Model Rail Car Dispatch System
- MiTrains Inventory and WayBills
- Model Railroad Manager (MRRM)
- Railroad Management System
- Decapod Systems offers CarRoute and PRR

<http://home.cogeco.ca/~trains/rrfrtops.htm>

<http://www.opsig.org/reso/>

<http://www.gatewaynmra.org/model-railroad-operations/>









# Car Orders

**“Car routing without all the paperwork”**

What's this all about?

- **An easy way to get cars moving around the layout in a meaningful, prototypical way**
- **A way to Simplify paperwork and setup time**
- **A way to Eliminate the worry about reporting marks**
- **No lost cards!**
- **No lost cars!**
- **No more eye strain!**



# The Car Order Form

## Card Front

CAR ORDER

Able Yard

Covered Hopper

*To be set out at*

Clarkesville

Grain Co-op

*When car has been set out*

*Place this card in the box*

SETOUTS

TURN (HOLD)

← This card is assigned to this yard

← Type of car

← Car's destination

← The paper shuffle  
(What happens to the card)

# The Car Order Form

## Card Back

### PICKUP ORDER

Able Yard

**Covered Hopper**

*To be picked up at*

**Clarksville**

Grain Co-op

*Road crew to setout car at  
Able Yard on West bound track.*

*When car has been setout  
turn this card and place in*

**CAR ORDERS**

**This card is assigned to this yard**

**Type of car**

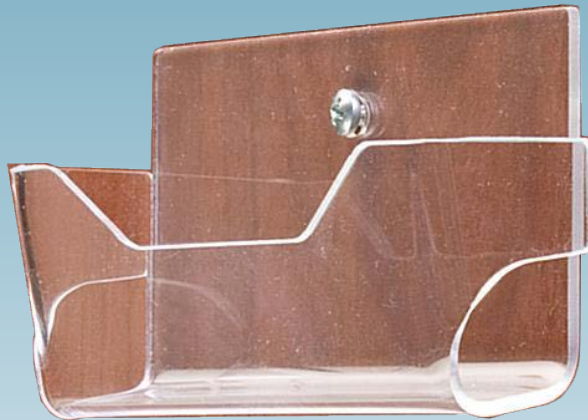
**Car's location**

**Car's next destination**

**The paper shuffle**  
*(What happens to the card)*

# Car Order Storage

Where do they go on the layout?





# Car Order Storage

Where do they go on the layout?



# Car Order Storage

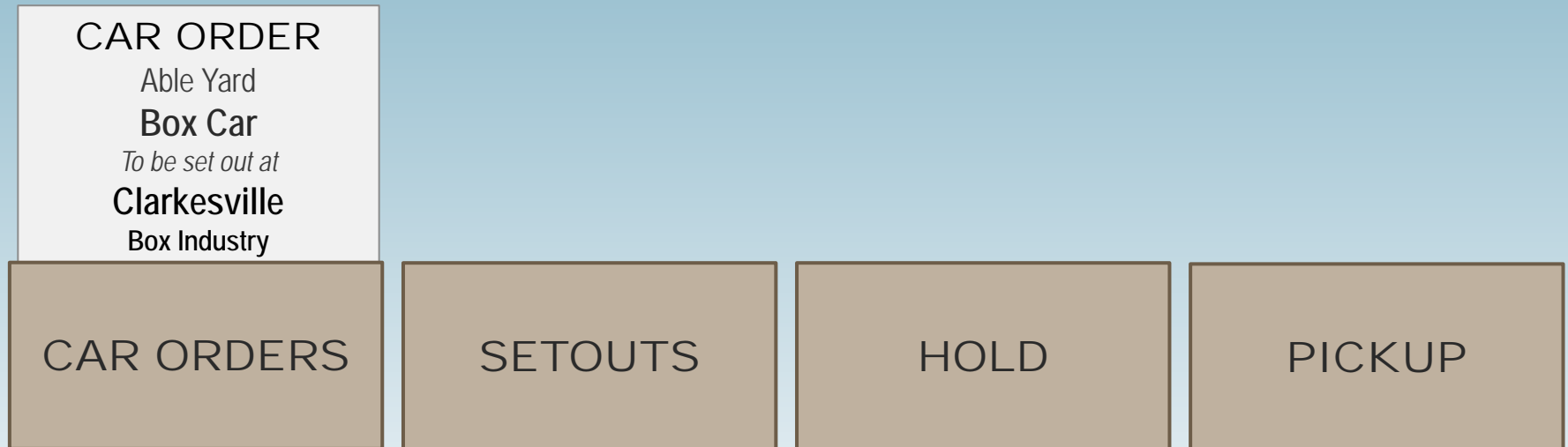
## Where do they go on the layout?



**How it  
all works**

## Train arrives at Able Yard

The **CAR ORDERS** box is checked to see if there is an available car in the train. We have an available box car.

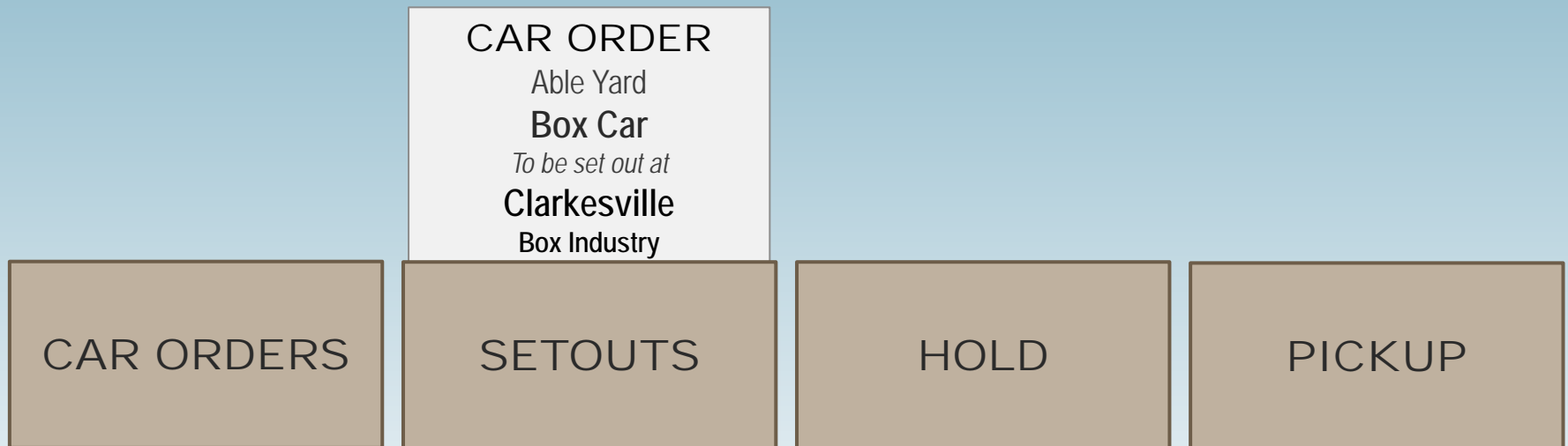


# ABLE YARD



## Train arrives at Able Yard

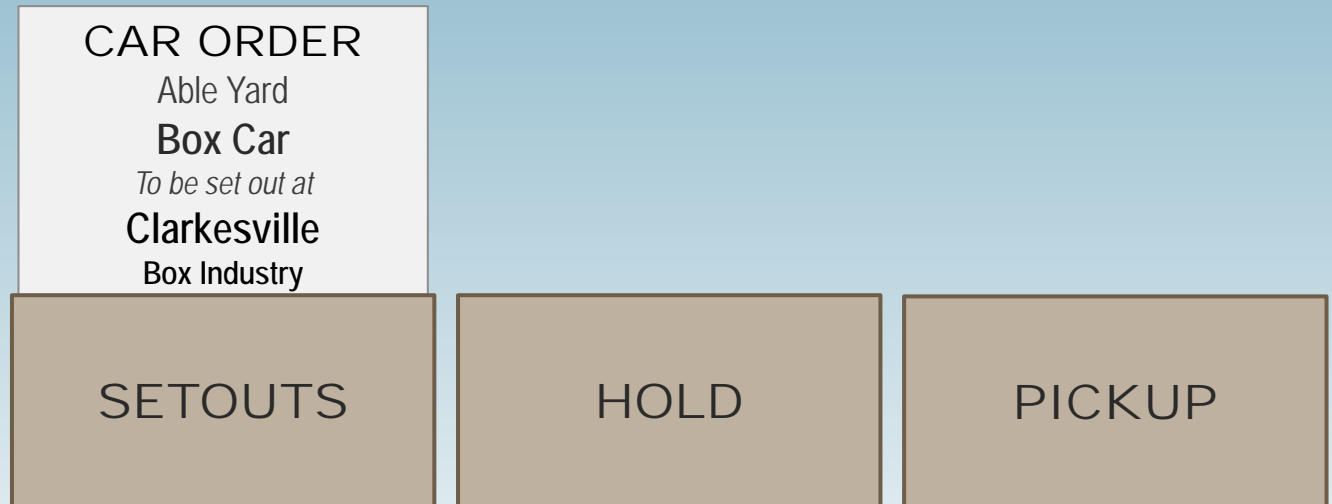
The Car Order is removed from the CAR ORDERS box and moved to the SETOUTS box. This box car is destined for Clarksville. The Able Yard Master will makeup a train for Clarksville. The Car Order is given to the engineer of the train and the Clarksville train departs Able Yard.



# ABLE YARD

# Train arrives at Clarksville

The engineer places the **Car Order** in the **SETOUT** box at Clarksville.

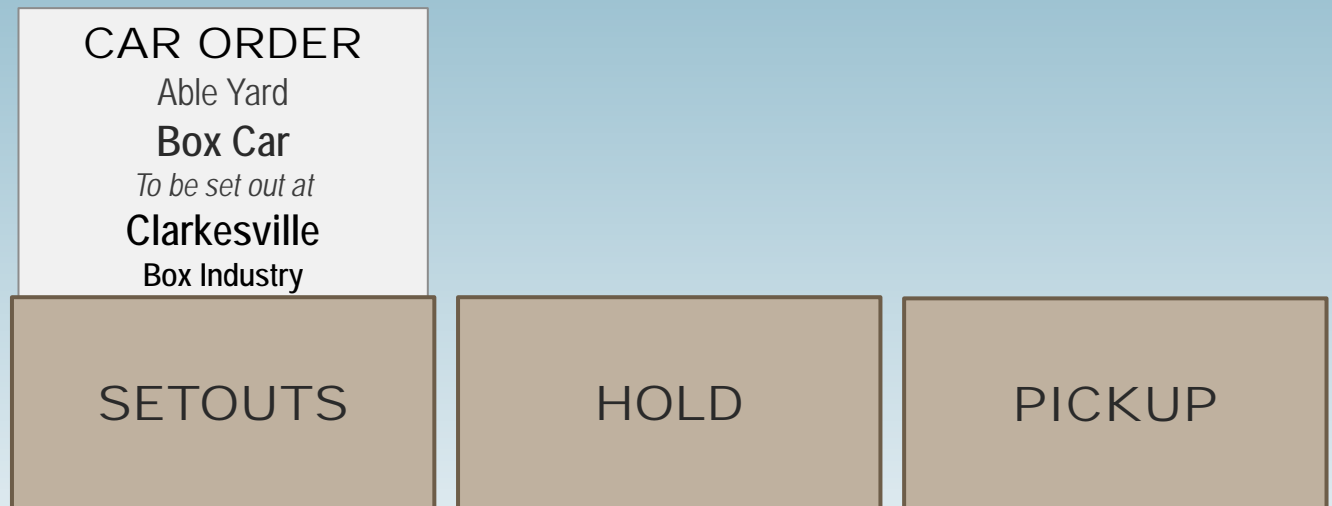


## CLARKSVILLE



# Train arrives at Clarksville

After the engineer sets out the box to the Box Industry. They can make the decision about what happens to the car for pickup.



# CLARKSVILLE

## Train arrives at Clarksville

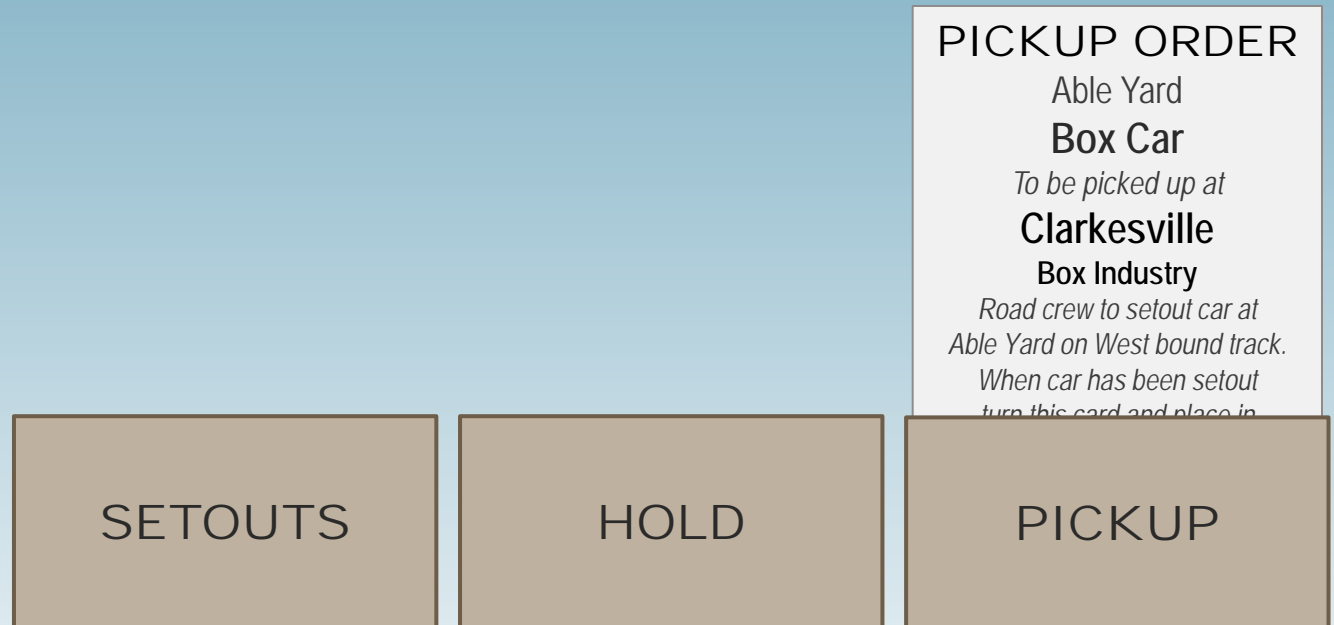
The engineer will turn over the Car Order to the Pickup Order side and place it in the HOLD box. The HOLD box can be used to delay the pickup of the car until a future session. This can be used to represent a delay by the industry do to a holiday, supply shortages or whatever reason you can think of. Or...



# CLARKSVILLE

# Train arrives at Clarksville

The engineer can place the Car Order in PICKUP box. The next scheduled train that arrives in Clarksville will look in the PICKUP box to see if there are any cars that need to be added to their train.



# CLARKSVILLE

## A new train arrives at Clarksville

When the next scheduled train arrives at Clarksville the engineer will look to see if there are any cars that need to be picked up. The car will be added to the train and the Car Order will be removed from the PICKUP box and taken to Able Yard.

### PICKUP ORDER

Able Yard

**Box Car**

*To be picked up at*

**Clarksville**

**Box Industry**

*Road crew to setout car at  
Able Yard on West bound track.*

*When car has been setout  
turn this card and place in*

**CAR ORDERS**

SETOUTS

HOLD

PICKUP

**CLARKSVILLE**

The new train from Clarksville arrives at Able Yard

The engineer places the Car Order in the SETOUTS box. According to the Pickup Order the car needs to be set out on the West Bound track of the Yard.

PICKUP ORDER

Able Yard

**Box Car**

*To be picked up at*

**Clarksville**

**Box Industry**

*Road crew to setout car at  
Able Yard on West bound track.*

*When car has been setout  
turn this card and place in*

**CAR ORDERS**

CAR ORDERS

SETOUTS

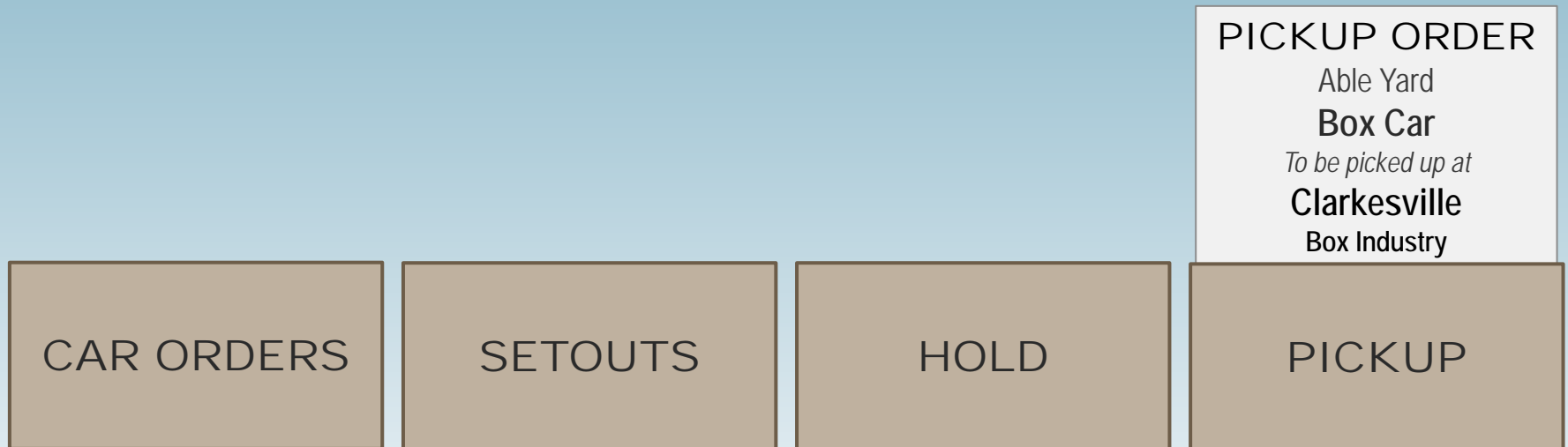
HOLD

PICKUP

**ABLE YARD**

# Able Yard Master

Once the car has been set out to the west bound pickup track of the yard, the Car order is placed in the PICKUP box. The car is now ready for the next West Bound train to pick it up.

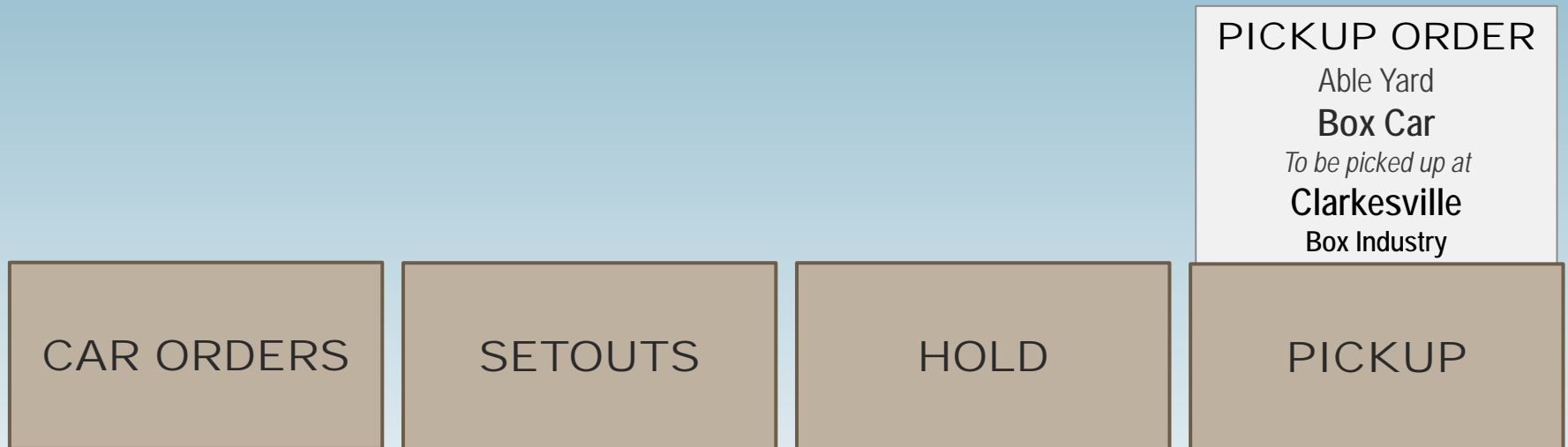


# ABLE YARD



## A new West Bound train arrives

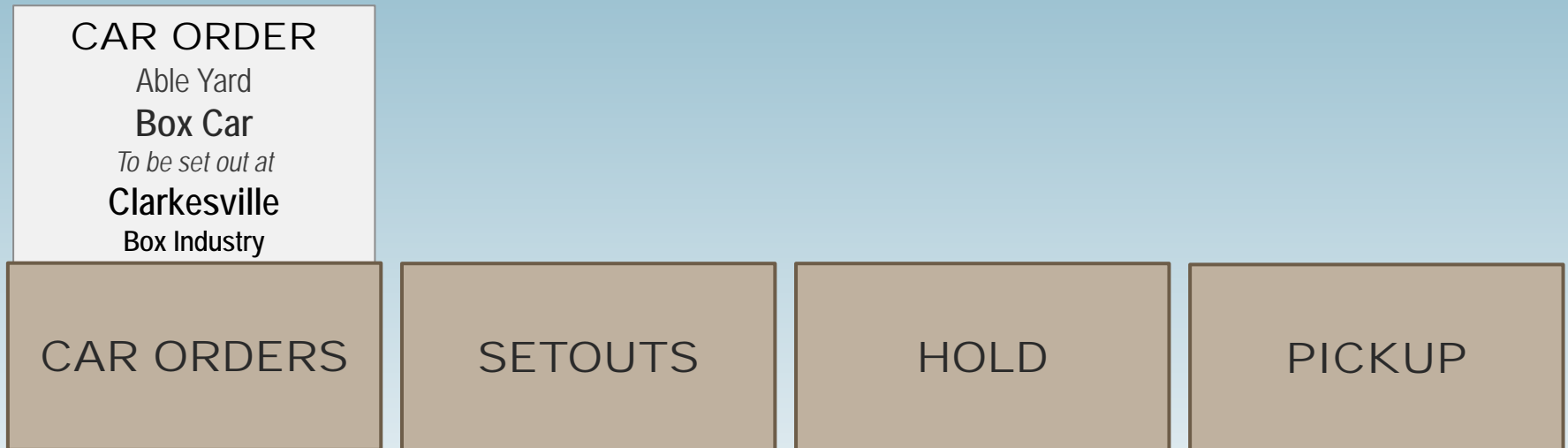
A new West Bound train has arrived and sees that a car for the train is ready to pickup. The car is added to the West Bound train and it departs Able Yard.



# ABLE YARD

# Able Yard Master

After the West Bound train departs, the Able Yard Master will remove the Car Order from the PICKUP box and turn it over to the Car Order side. The Car Order is the return to the CAR ORDERS box so it is ready to be used by the next scheduled train that arrives at Able Yard.



## ABLE YARD

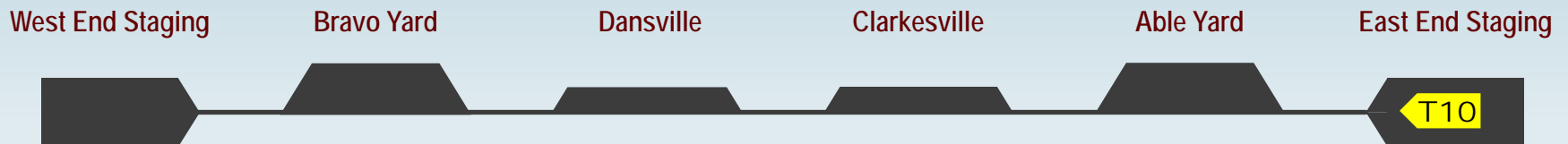
**Now we will  
follow the  
process for two  
trains on the  
Able Bravo  
Railroad**



*“America’s Alphabet Route”*

## West Bound Trains

- **Through Freight : T10**
  - Begins at East End Staging



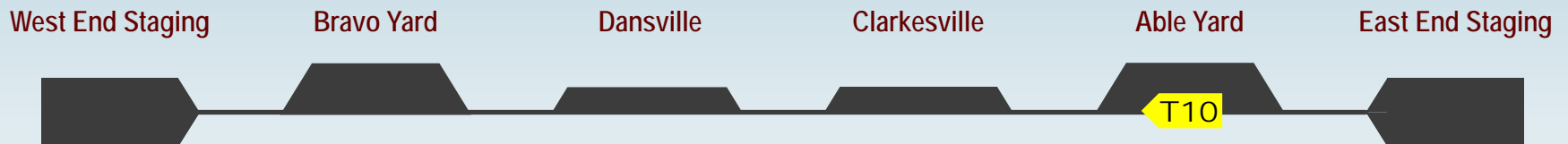
← WEST    A.B. RAILROAD    EAST →



*“America’s Alphabet Route”*

## West Bound Trains

- **Through Freight : T10**
  - Begins at East End Staging
  - Stops only at Able Yard and Bravo Yard



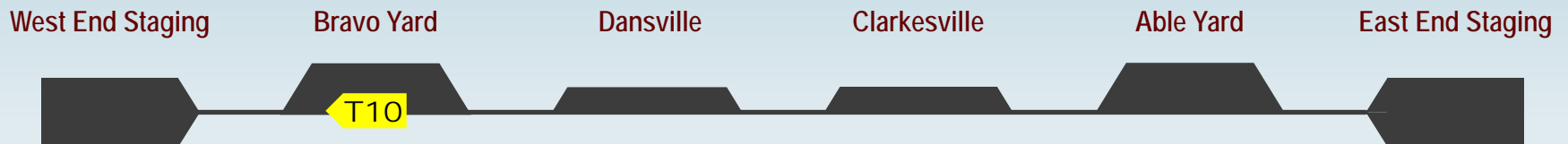
← WEST    A.B. RAILROAD    EAST →



*“America’s Alphabet Route”*

## West Bound Trains

- **Through Freight : T10**
  - Begins at East End Staging
  - Stops only at Able Yard and Bravo Yard



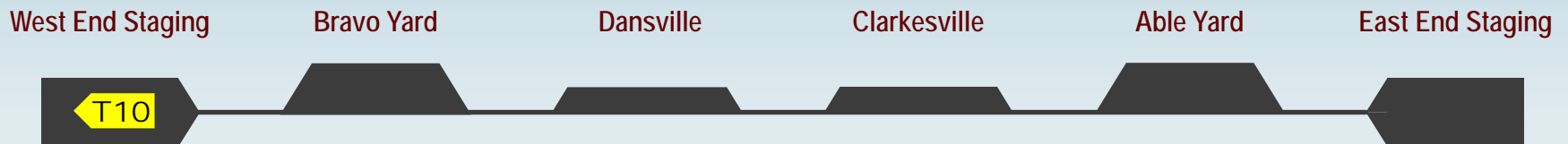
← WEST    A.B. RAILROAD    EAST →



*“America’s Alphabet Route”*

## West Bound Trains

- **Through Freight : T10**
  - Begins at East End Staging
  - Stops only at Able Yard and Bravo Yard
  - Terminating at West End Staging



← WEST    A.B. RAILROAD    EAST →

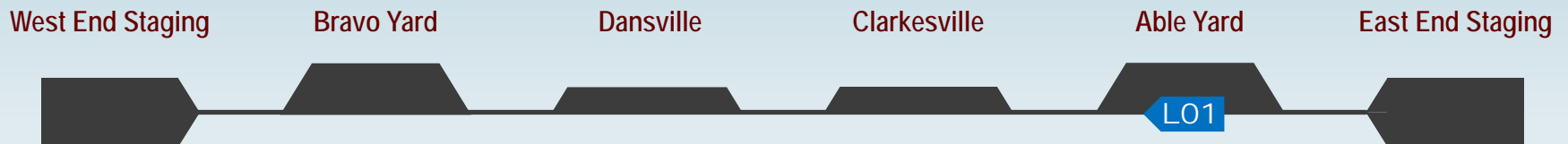




*“America’s Alphabet Route”*

## West Bound Trains

- **Through Freight : T10**
  - Begins at East End Staging
  - Stops only at Able Yard and Bravo Yard
  - Terminating at West End Staging
- **Local Freight : L01**
  - Begins at Able Yard



← WEST    A.B. RAILROAD    EAST →



*“America’s Alphabet Route”*

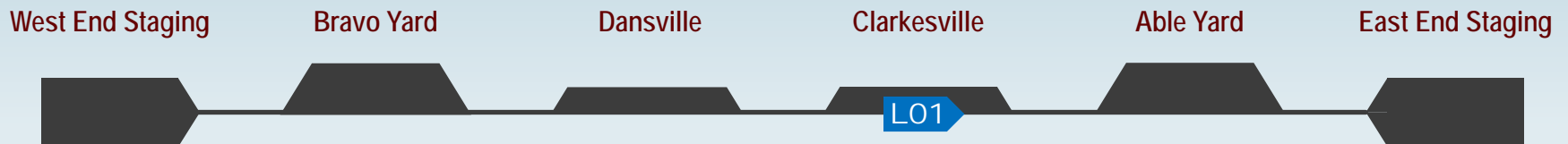
## West Bound Trains

- **Through Freight : T10**

- Begins at East End Staging
- Stops only at Able Yard and Bravo Yard
- Terminating at West End Staging

- **Local Freight : L01**

- Begins at Able Yard
- Completes setouts and pickups at Clarkesville



← WEST    A.B. RAILROAD    EAST →



*“America’s Alphabet Route”*

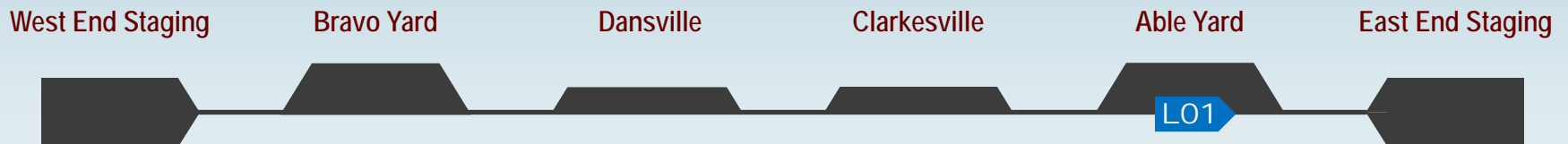
## West Bound Trains

- **Through Freight : T10**

- Begins at East End Staging
- Stops only at Able Yard and Bravo Yard
- Terminating at West End Staging

- **Local Freight : L01**

- Begins at Able Yard
- Completes setouts and pickups at Clarkesville
- Returns to Able Yard and terminates



← WEST    A.B. RAILROAD    EAST →

**First up we will  
build the  
Through Freight  
T10 in the  
staging yard**

# Through Freight T10

West End Staging

Bravo Yard

Dansville

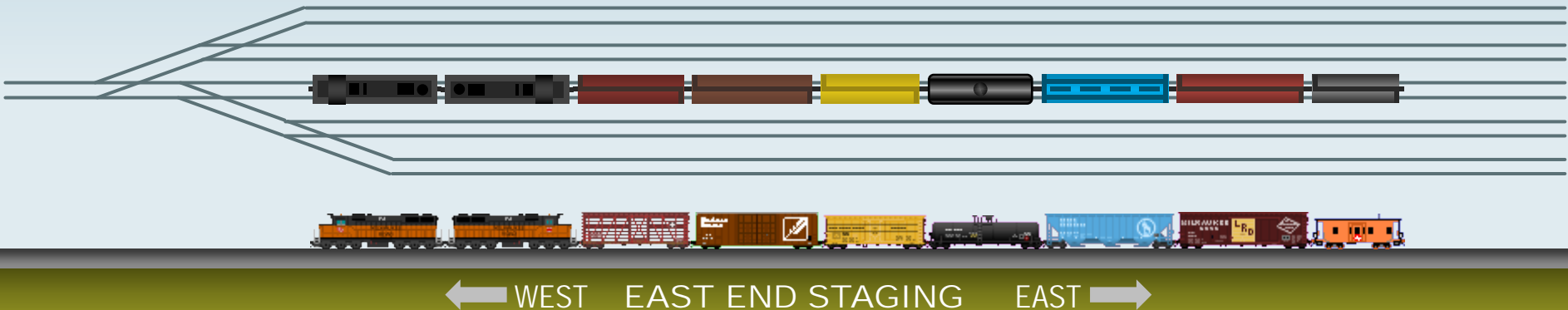
Clarkesville

Able Yard

East End Staging



- Staging Yardmaster :
  - Creates the train from stored cars off the layout
  - Creates the train from cars already in the staging yard
  - Creates the train from a random number generator



# Building a Train Using a Random Number Generator

#	Road	Car #	Desc	Length	Color	Location
1	ATSF	2248	Reefer	50	Orange	U3D6
2	ATSF	145356	Boxcar	40	Brown	U3D8
3	BAR	6017	Boxcar	50	Red/White/Blue	U2D9
4	BCIT	800103	Boxcar	50	Green	U4D3
5	BCT	800348	Boxcar	60	Green	U2D9
6	BCT	818455	FlatBulk	60	Green	U2D7
7	BM	74706	Boxcar	40	Black	U3D6
8	BO	381429	Boxcar	40	Brown	U3D1
9	BO	467079	Boxcar	40	Blue	U3D8
10	BO	UN1	Boxcar	40	Silver	U3D6
11	CBQ	17302	Boxcar	40	Gold	U3D8
12	CBQ	17786	Boxcar	40	Gold	U3D9
13	CBQ	53062	Stock	40	Green	U4D2
14	CBQ	61417	Boxcar	40	Gold	U3D9
15	CBQ	95279	Flatcar	50	Red	U2D7
16	CBQ	180229	HopGrain	35	Brown	U1D7
17	CBQ	180234	HopGrain	35	Brown	U3D3
18	CG	1595	Boxcar	50	Blue	U2D9
19	CLC	1206	FlatBulk	50	Blue	U2D7
20	CMO	20032	Boxcar	40	Green	U3D1
21	CN	370708	HopGrain	50	Rainbow	U3D3
22	CN	501417	Boxcar	40	Brown	U3D1
23	CONX	617	Tank	40	Silver	U3D2
24	CONX	619	Tank	40	Silver	U3D2
25	CONX	2571	Tank	35	Silver	U3D2
26	CONX	3111	Tank	35	Silver	U3D2
27	CONX	3141	Tank	35	Silver	U3D2
28	DRGW	20032	FlatTOFC	50	Black	U2D3
29	DRGW	64127	Stock	40	Brown	U4D2

Building a train with this method adds a way that keeps the play value of operating trains fun and nobody knows exactly what to expect each operating session.

Setup a spread sheet with a sequential number from 1 to the total number of cars you have available. For my layout, I have a total of 219 pieces of rolling stock.



# Building a Train Using a Random Number Generator

R; Random Number

Min :

Max :

Quantity :

Decimal Places :

☒ Non repeating numbers

Result

184, 211, 48, 20, 58, 189, 176, 7

Generate

Copy to clipboard

You will need an app for your phone, tablet, PC program or from online to able to generate random numbers. This program should allow you to enter a minimum and maximum number as well as the quantity of numbers you want generated.

# Building a Train Using a Random Number Generator

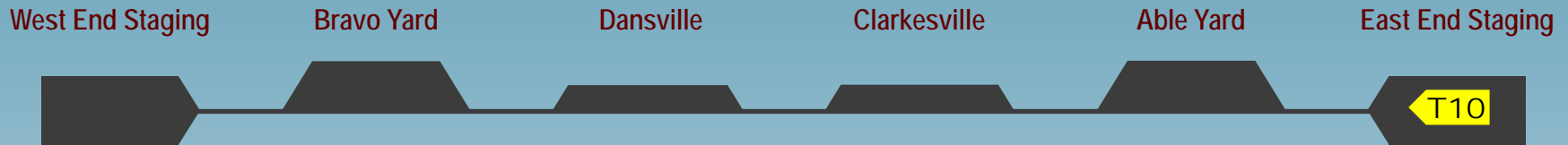
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19	CLC	1206	FlatBulk	50	Blue	U2D7
20	CMO	20032	Boxcar	40	Green	U3D1
21	CN	370708	HopGrain	50	Rainbow	U3D3
22	CN	501417	Boxcar	40	Brown	U3D1
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26	CONX	3111	Tank	35	Silver	U3D2
27	CONX	3141	Tank	35	Silver	U3D2
28	DRGW	20032	FlatTOFC	50	Black	U2D3
29	DRGW	64127	Stock	40	Brown	U4D2

Result

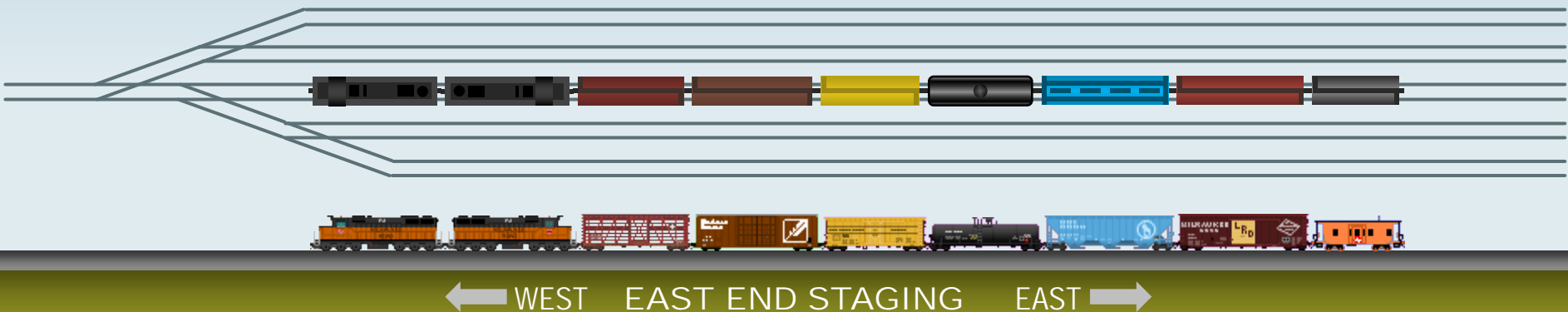
184, 211, 48, 20, 58, 189, 176, 7

In this example the 7<sup>th</sup> car on our list has been chosen. That car is a black Boston & Maine box car with the road number 74706. The rest of cars are added to the train from their position on the list.

# Through Freight T10



- Staging Yardmaster :
  - Creates the train from stored cars off the layout
  - Creates the train from cars already in the staging yard
  - Creates the train from a random number generator
  - The train's consist is based on cars needed by layout industries
  - Other cars can added to represent run-through deliveries



# Through Freight T10

West End Staging

Bravo Yard

Dansville

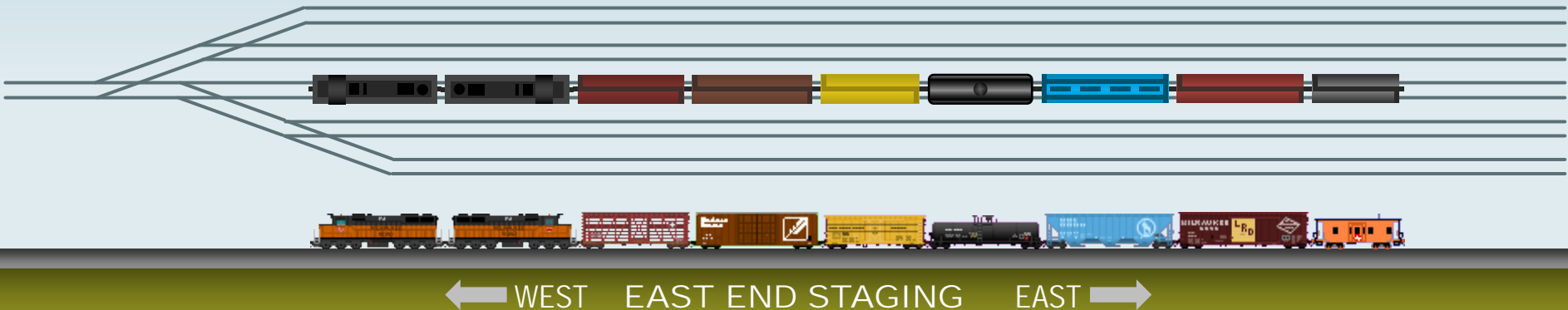
Clarkesville

Able Yard

East End Staging



The Staging Yardmaster now has the train built and calls for the crew to take the train. The first stop for Through Freight T10 is Able Yard.



# Through Freight T10

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

T10

CAR ORDER  
CAR ORDER  
CAR ORDER  
CAR ORDER  
Hopper Car  
Able Yard  
Team Track  
SETOUT

CAR  
ORDERS

SETOUTS

West Bound  
CAR ORDERS

HOLD

East Bound  
CAR ORDERS

PICKUPS

West Bound  
CAR ORDERS

PICKUPS  
WEST

West Bound  
CAR ORDERS

PICKUPS  
EAST

Our train has arrived from East Staging.  
The first step is to look at all of the  
cards in the CARD ORDERS box.

Able Yard Team Track

E

W



← WEST ABLE YARD EAST →

We can see that we do not have a hopper car in the train.  
We do have a choice of two box cars and a covered hopper.  
We do not have a flat car available in the this train.

West End

Staging

T10

### CAR ORDER

Able Yard

**Hopper Car**

*To be set out at*

**Able Yard**

**Team Track**

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

### CAR ORDER

Able Yard

**Box Car**

*To be set out at*

**Clarkesville**

**Box Industry**

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

### CAR ORDER

Able Yard

**Covered Hopper**

*To be set out at*

**Clarkesville**

**Grain Co-op**

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

### CAR ORDER

Able Yard

**Flat Car**

*To be set out at*

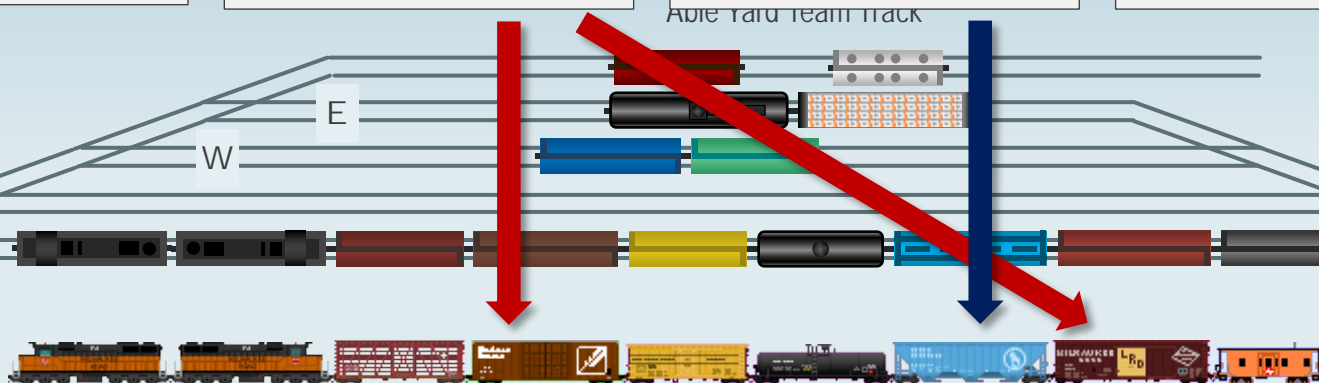
**Able Yard**

**Team Track**

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**



← WEST ABLE YARD EAST →



The Car Orders that we did not use are returned to the CAR ORDERS box.

# Freight T10

West End Staging

Bravo Yard

Dansville

Clarkesville

Able Yard

East End Staging

T10

CAR ORDER

CAR ORDER  
Hopper Car  
Able Yard  
Team Track  
**SETOUT**

CAR  
ORDERS

CAR ORDER

Able Yard

Box Car

*To be set out at*

**Clarkesville**

Box Industry

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

CAR ORDER

Able Yard

Covered Hopper

*To be set out at*

**Clarkesville**

Grain Co-op

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

Able Yard Team Track

W

E



← WEST ABLE YARD EAST →

# T

The Car Orders that we did use are placed in the SETOUTS box.

# ht T10

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

T10

CAR ORDER

CAR ORDER  
Hopper Car  
Able Yard  
Team Track  
SETOUT

CAR  
ORDERS

CAR ORDER

CAR ORDER  
Box Car  
Clarksville  
Box Factory  
SETOUT

SETOUTS

PICKUP ORDER

Box Car  
Able Yard  
Team Track  
West Bound  
CAR ORDERS

HOLD

PICKUP ORDER

Cement Car  
Able Yard  
Team Track  
East Bound  
CAR ORDERS

PICKUPS

PICKUP ORDER

PICKUP ORDER  
Box Car  
Able Yard  
Team Track  
West Bound  
CAR ORDERS

PICKUPS  
WEST

PICKUP ORDER

PICKUP ORDER  
Bulk Head Flat  
Able Yard  
Team Track  
West Bound  
CAR ORDERS

PICKUPS  
EAST

Able Yard Team Track

E

W



← WEST ABLE YARD EAST →

# Through Freight T10

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging



CAR ORDER
CAR ORDER Hopper Car Able Yard Team Track SETOUT
CAR ORDERS

CAR ORDER
CAR ORDER Box Car Clarksville Box Factory SETOUT
SETOUTS

PICKUP  
Able  
Team  
West  
CA

The cars are removed from the train and switched to a yard track. The Able Yard Master will switch the cars as needed after the Through Freight has left town.



← WEST ABLE YARD EAST →

# Through Freight T10

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

T10

The rest of the train is blocked in preparation for adding any cars that maybe available for pickup at Able Yard.

CAR ORDER

CAR ORDER  
Hopper Car  
Able Yard  
Team Track  
SETOUT

CAR  
ORDERS

CAR ORDER

CAR ORDER  
Box Car  
Clarksville  
Box Factory  
SETOUT

SETOUTS

PICK  
A  
Te  
We  
CAR

HOLD

PICKUPS

PICKUPS  
WEST

PICKUPS  
EAST

Able Yard Team Track

E

W

← WEST ABLE YARD EAST →

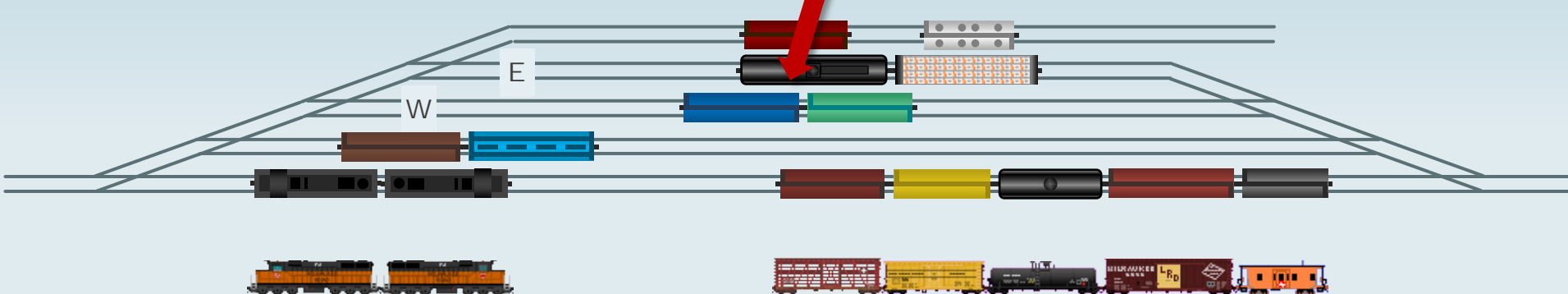
Looking at the PICKUPS WEST box you can see that there are two cars that need to be picked up by the next west bound train. These cars are located on the west bound yard track.

West End St

T10

CAR ORDER	CAR ORDER	PICKUP ORDER	PICKUP ORDER	PICKUP ORDER	PICKUP ORDER
CAR ORDER Hopper Car Able Yard Team Track SETOUT	CAR ORDER Box Car Clarkesville Box Factory SETOUT	PICKUP ORDER Box Car Able Yard Team Track West Bound CAR ORDERS	PICKUP ORDER Cement Car Able Yard Team Track East Bound CAR ORDERS	PICKUP ORDER Box Car Able Yard Team Track West Bound CAR ORDERS	PICKUP ORDER Bulk Head Flat Able Yard Team Track West Bound CAR ORDERS
CAR ORDERS	SETOUTS	HOLD	PICKUPS	PICKUPS WEST	PICKUPS EAST

Able Yard Team Track



← WEST ABLE YARD EAST →

# Through Freight T10

West End Staging

Bravo Yard

Dansville

Clarkesville

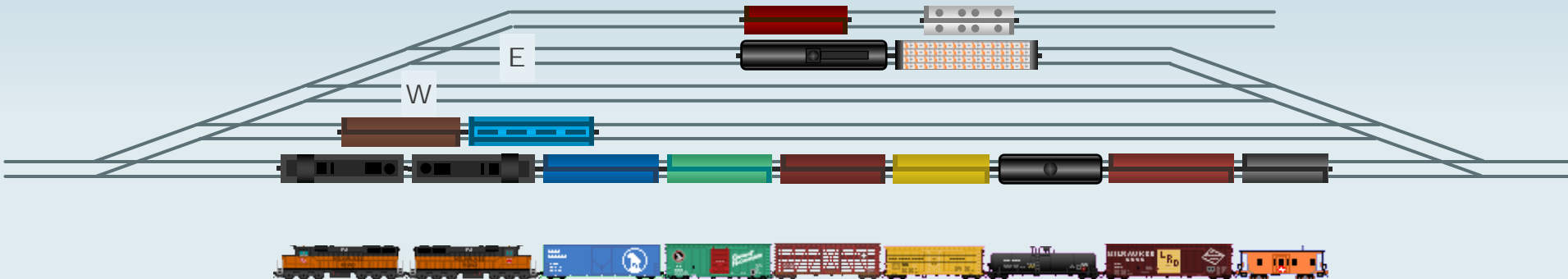
Able Yard

East End Staging

The west bound cars are added to the train and the engineer is given clearance to leave the yard.

CAR ORDER	CAR ORDER	PICKUP ORDER	PICKUP ORDER	PICKUP ORDER	PICKUP ORDER
CAR ORDER Hopper Car Able Yard Team Track Box Factory SETOUT	CAR ORDER Box Car Clarkesville Box Factory SETOUT	PICKUP ORDER Box Car Able Yard Team Track West Bound CAR ORDERS	PICKUP ORDER Cement Car Able Yard Team Track East Bound CAR ORDERS	PICKUP ORDER Box Car Able Yard Team Track West Bound CAR ORDERS	PICKUP ORDER Bulk Head Flat Able Yard Team Track West Bound CAR ORDERS
CAR ORDERS	SETOUTS	HOLD	PICKUPS	PICKUPS WEST	PICKUPS EAST

Able Yard Team Track



← WEST ABLE YARD EAST →



# Through Freight T10

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

T10

The Through Freight T10 will now continue on to the next stop which is Bravo Yard.

Team Track  
SETOUT

CAR  
ORDERS

Box Factory  
SETOUT

SETOUTS

Team Track  
West Bound  
CAR ORDERS

HOLD

Team Track  
East Bound  
CAR ORDERS

PICKUPS

Team Track  
West Bound  
CAR ORDERS

PICKUPS  
WEST

PICKUP ORDER  
PICKUP ORDER  
Bulk Head Flat  
Able Yard  
Team Track  
West Bound  
CAR ORDERS

PICKUPS  
EAST

Able Yard Team Track

E

W

← WEST ABLE YARD EAST →

# Able Yard Master

West End Staging

Bravo Yard

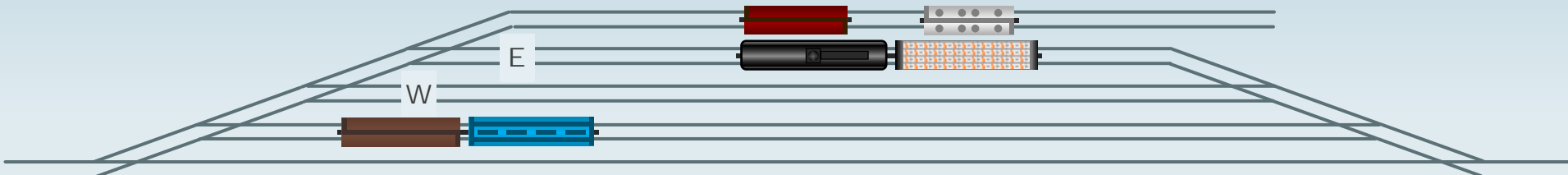
Able Yard

East End Staging

The Able Yard Master will need to finish the paper work shuffle after the train has left.

CAR ORDER	CAR ORDER	PICKUP ORDER	PICKUP ORDER	PICKUP ORDER	PICKUP ORDER
CAR ORDER Hopper Car Able Yard Team Track SETOUT	CAR ORDER Box Car Clarkesville Box Factory SETOUT	PICKUP ORDER Box Car Able Yard Team Track West Bound CAR ORDERS	PICKUP ORDER Cement Car Able Yard Team Track East Bound CAR ORDERS	PICKUP ORDER Box Car Able Yard Team Track West Bound CAR ORDERS	PICKUP ORDER Bulk Head Flat Able Yard Team Track West Bound CAR ORDERS
CAR ORDERS	SETOUTS	HOLD	PICKUPS	PICKUPS WEST	PICKUPS EAST

Able Yard Team Track



← WEST ABLE YARD EAST →

# Able Yard Master

West End Staging

The Able Yard Master will take the Pickup Order cards from the PICKUPS WEST box.

Clarkesville

Able Yard

East End Staging

PICKUP ORDER  
PICKUP ORDER  
Box Car  
Able Yard  
Team Track  
West Bound  
**CAR ORDERS**

CAR ORDER  
CAR ORDER  
Hopper Car  
Able Yard  
Team Track  
**SETOUT**

CAR  
ORDERS

CAR ORDER  
CAR ORDER  
Box Car  
Clarkesville  
Box Factory  
**SETOUT**

SETOUTS

PICKUP ORDER  
Box Car  
Able Yard  
Team Track  
West Bound  
**CAR ORDERS**

HOLD

PICKUP ORDER  
Cement Car  
Able Yard  
Team Track  
East Bound  
**CAR ORDERS**

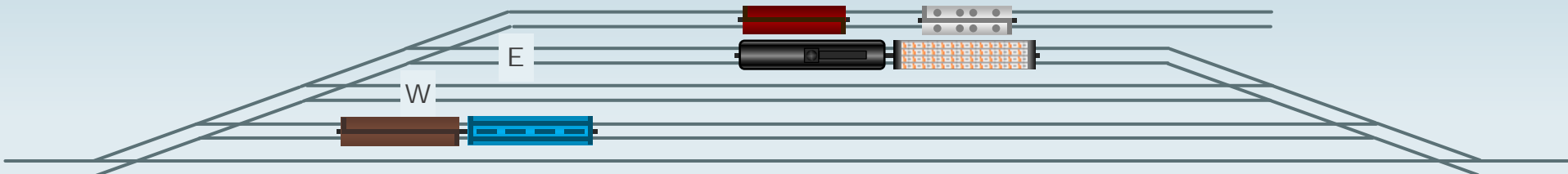
PICKUPS

PICKUP ORDER  
PICKUP ORDER  
Bulk Head Flat  
Able Yard  
Team Track  
West Bound  
**CAR ORDERS**

PICKUPS  
WEST

PICKUPS  
EAST

Able Yard Team Track



← WEST ABLE YARD EAST →

# Able Yard Master

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

CAR ORDER  
CAR ORDER  
Box Car  
Able Yard  
Team Track  
SETOUT

CAR ORDER  
CAR ORDER  
Hopper Car  
Able Yard  
Team Track  
SETOUT

CAR  
ORDERS

CAR ORDER  
CAR ORDER  
Box Car  
Clarksville  
Box Factory  
SETOUT

SETOUTS

PICKUP ORDER  
Box Car  
Able Yard  
Team Track  
West Bound  
CAR ORDERS

HOLD

PICKUP ORDER  
Cement Car  
Able Yard  
Team Track  
East Bound  
CAR ORDERS

PICKUPS

PICKUP ORDER  
PICKUP ORDER  
Bulk Head Flat  
Able Yard  
Team Track  
West Bound  
CAR ORDERS

PICKUPS  
EAST

PICKUPS  
WEST

These cards will be  
turned over to the  
Car Order side.

← WEST ABLE YARD EAST →

# Able Yard Master

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

CAR ORDER
CAR ORDER
CAR ORDER
CAR ORDER Hopper Car Able Yard Team Track SETOUT
CAR ORDERS

CAR ORDER
CAR ORDER Box Car Clarksville Box Factory SETOUT
SETOUTS

PICK  
T  
W  
CA

HOLD

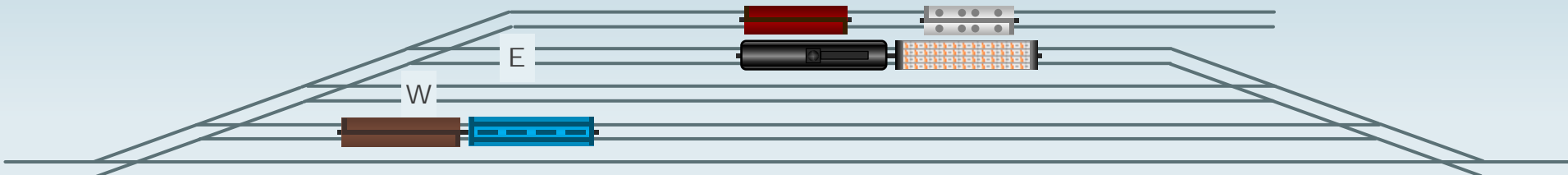
PICKUPS

WEST

EAST

The cards will then be placed in the CAR ORDERS box to make them available for the next incoming train.

Able Yard Team Track



← WEST ABLE YARD EAST →

# Through Freight T10

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

T10

Our Through Freight T10 has arrived  
at the next stop in Bravo Yard

CAR ORDERS  
CAR ORDERS  
CAR ORDERS  
Box  
Dans  
Furnitu  
SETOUT

CAR  
ORDERS

SETOUTS

HOLD

PICKUPS

CAR ORDERS

PICKUPS  
WEST

CAR ORDERS

PICKUPS  
EAST

CAR ORDERS  
CAR ORDERS  
CAR ORDERS  
Box  
Dans  
Furnitu  
SETOUT

Bravo Yard Team Track

Stock Yard

E

W



← WEST BRAVO YARD EAST →

# Through Freight T10

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

T10

CAR ORDER  
CAR ORDER  
CAR ORDER  
Box Car  
Dansville  
Furniture Co.  
SETOUT

CAR  
ORDERS

SETOUTS

HOLD

PICKUPS

Bravo Yard  
Team Track  
West Bound  
CAR ORDERS

PICKUPS  
WEST

Bravo Yard  
Team Track  
West Bound  
CAR ORDERS

PICKUPS  
EAST

The first step is to look at all of the cards in the CARD ORDERS box.

Bravo Yard Team Track

Stock Yard

E

W

← WEST BRAVO YARD EAST →



# Through Freight T10

West End

Staging

We can see that we do have a stock car in the train.

T10

## CAR ORDER

Bravo Yard

**Stock Car**

*To be set out at*

**Bravo Yard**

Stock Yard

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

## CAR ORDER

Bravo Yard

**Box Car**

*To be set out at*

**Dansville**

Furniture Company

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

## CAR ORDER

Bravo Yard

**Tank Car**

*To be set out at*

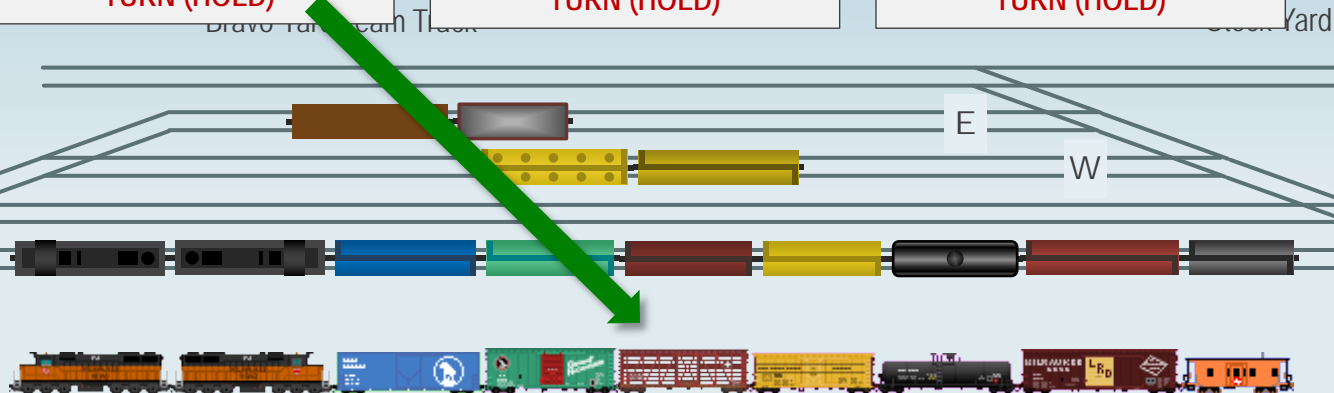
**Bravo Yard**

Team Track

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**



← WEST BRAVO YARD EAST →

We do have a choice of three box cars. First two were just picked up from Able Yard so we will ignore those and select the one at the rear of the train.

West End

Staging

T10

### CAR ORDER

Bravo Yard

**Stock Car**

*To be set out at*

**Bravo Yard**

**Stock Yard**

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

### CAR ORDER

Bravo Yard

**Box Car**

*To be set out at*

**Dansville**

**Furniture Company**

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

### CAR ORDER

Bravo Yard

**Tank Car**

*To be set out at*

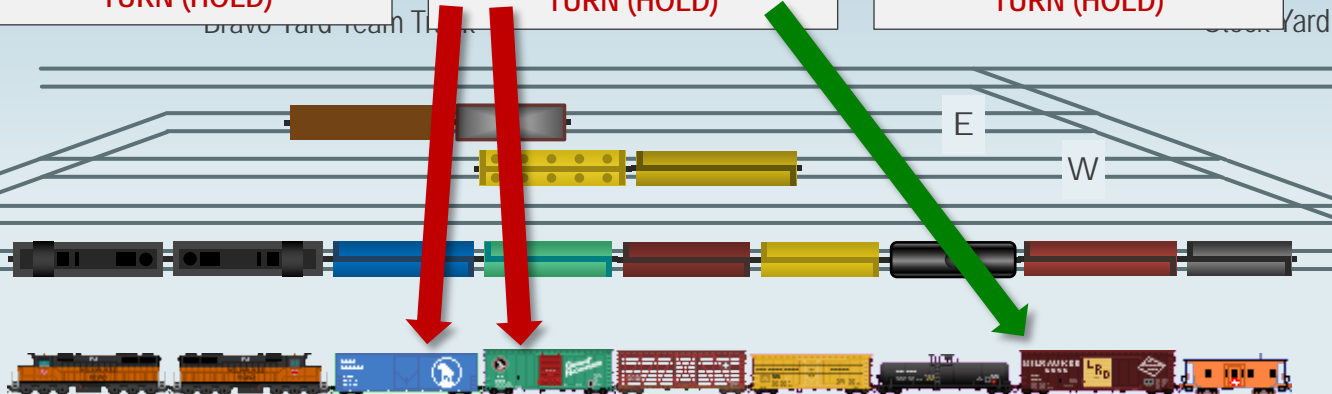
**Bravo Yard**

**Team Track**

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**



← WEST BRAVO YARD EAST →

# Through Freight T10

West End

Staging

We also have a tank car available.

T10

## CAR ORDER

Bravo Yard

**Stock Car**

*To be set out at*

**Bravo Yard**

**Stock Yard**

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

## CAR ORDER

Bravo Yard

**Box Car**

*To be set out at*

**Dansville**

**Furniture Company**

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

## CAR ORDER

Bravo Yard

**Tank Car**

*To be set out at*

**Bravo Yard**

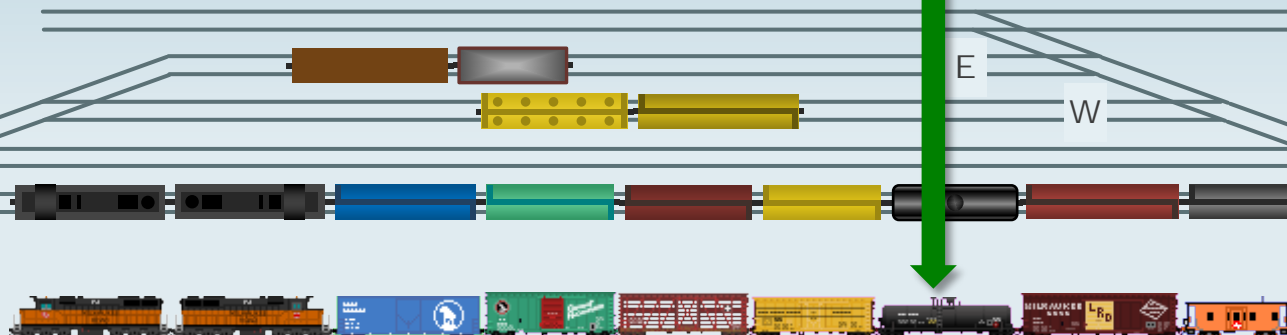
**Team Track**

*When car has been set out  
Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

HICK  
HICK  
Air  
Bra  
Tea  
Wes  
CAR  
Pl



← WEST BRAVO YARD EAST →

# T

The Car Orders that we did use are placed in the SETOUTS box.

# ht T10

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

T10

CAR ORDER  
CAR ORDER  
CAR ORDER  
Box Car  
Dansville  
Furniture Co.  
**SETOUT**

PICKUP ORDER  
PICKUP ORDER  
Airlide Car  
Bravo Yard  
Team Track  
West Bound  
**CAR ORDERS**

PICKUP ORDER  
PICKUP ORDER  
Flat Car  
Bravo Yard  
Team Track  
West Bound  
**CAR ORDERS**

CAR  
ORDERS

SETOUTS

HOLD

PICKUPS

PICKUPS  
WEST

PICKUPS  
EAST

Bravo Yard Team Track

Stock Yard

E

W



← WEST BRAVO YARD EAST →

# Through Freight T10

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

T10

CAR ORDER
CAR ORDER
CAR ORDER
Box Car
Dansville
Furniture Co.
SETOUT

CAR  
ORDERS

SETOUTS

The cars are removed from the train and switched to a yard track. The Bravo Yard Master will switch the cars as needed after the Through Freight has left town.

Bravo Yard Team Track

Stock Yard

E

W

← WEST BRAVO YARD EAST →

# Through Freight T10

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

T10

CAR ORDER
CAR ORDER
CAR ORDER
Box Car
Dansville
Furniture Co.
SETOUT

The rest of the train is blocked in preparation for adding any cars that maybe available for pickup at Bravo Yard.

CAR  
ORDERS

SETOUTS

HOLD

PICKUPS

PICKUPS  
WEST

PICKUPS  
EAST

Bravo Yard Team Track

Stock Yard

W

← WEST BRAVO YARD EAST →

Looking at the PICKUPS WEST box you can see that there are two cars that need to be picked up by the next west bound train. These cars are located on the west bound yard track.

West End St

T10

CAR ORDER
CAR ORDER
CAR ORDER
Box Car
Dansville
Furniture Co.
SETOUT

CAR  
ORDERS

SETOUTS

HOLD

PICKUPS

PICKUP ORDER
PICKUP ORDER
Airslide Car
Bravo Yard
Team Track
West Bound
CAR ORDERS

PICKUPS  
WEST

PICKUP ORDER
PICKUP ORDER
Flat Car
Bravo Yard
Team Track
West Bound
CAR ORDERS

PICKUPS  
EAST

Bravo Yard Team Track

Stock Yard

E

W

← WEST BRAVO YARD EAST →



# Through Freight T10

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

The west bound cars are added to the train and the engineer is given clearance to leave the yard.

CAR ORDER
CAR ORDER
CAR ORDER
Box Car
Dansville
Furniture Co.
SETOUT

CAR  
ORDERS

SETOUTS

HOLD

PICKUPS

PICKUP ORDER
PICKUP ORDER
Airslide Car
Bravo Yard
Team Track
West Bound
CAR ORDERS

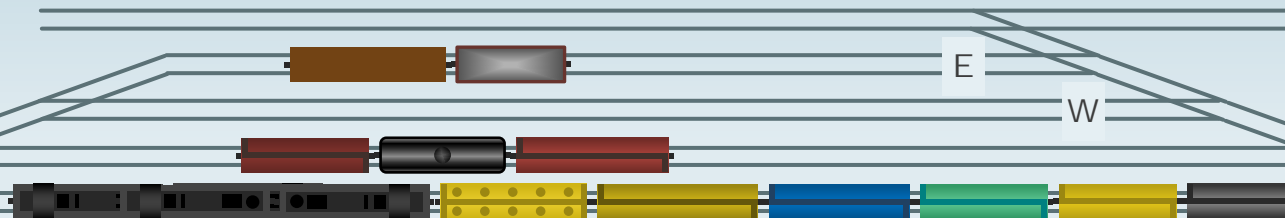
PICKUPS  
WEST

PICKUP ORDER
PICKUP ORDER
Flat Car
Bravo Yard
Team Track
West Bound
CAR ORDERS

PICKUPS  
EAST

Bravo Yard Team Track

Stock Yard



← WEST BRAVO YARD EAST →

# Through Freight T10

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

T10

The Through Freight T10 will now continue on to the next stop which is West End Staging.

CAR  
ORDERS

Furniture Co.  
SETOUT

SETOUTS

HOLD

PICKUPS

Team Track  
West Bound  
CAR ORDERS

PICKUPS  
WEST

PICKUP ORDER  
PICKUP ORDER  
Flat Car  
Bravo Yard  
Team Track  
West Bound  
CAR ORDERS

PICKUPS  
EAST

Bravo Yard Team Track

Stock Yard

E

W

← WEST BRAVO YARD EAST →

# Bravo Yard Master

West End Staging

Bravo Yard

Able Yard

East End Staging

The Bravo Yard Master will need to finish the paper work shuffle after the train has left.

CAR ORDER

CAR ORDER

CAR ORDER  
Box Car  
Dansville  
Furniture Co.  
**SETOUT**

CAR  
ORDERS

SETOUTS

HOLD

PICKUPS

PICKUP ORDER  
PICKUP ORDER  
Airslide Car  
Bravo Yard  
Team Track  
West Bound  
**CAR ORDERS**

PICKUPS  
WEST

PICKUP ORDER  
PICKUP ORDER  
Flat Car  
Bravo Yard  
Team Track  
West Bound  
**CAR ORDERS**

PICKUPS  
EAST

Bravo Yard Team Track

Stock Yard

E

W



WEST

BRAVO YARD

EAST



# Bravo Yard Master

West End Staging

The Bravo Yard Master will take the Pickup Order cards from the PICKUPS WEST box.

Clarkesville

Able Yard

East End Staging

PICKUP ORDER  
PICKUP ORDER  
Airslide Car  
Bravo Yard  
Team Track  
West Bound  
**CAR ORDERS**

CAR ORDER  
Box Car  
Dansville  
Furniture Co.  
**SETOUT**

PICKUP ORDER  
PICKUP ORDER  
Flat Car  
Bravo Yard  
Team Track  
West Bound  
**CAR ORDERS**

CAR  
ORDERS

SETOUTS

HOLD

PICKUPS

PICKUPS  
WEST

PICKUPS  
EAST

Bravo Yard Team Track

Stock Yard

E

W

← WEST BRAVO YARD EAST →

# Bravo Yard Master

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

CAR ORDER

CAR ORDER  
Airlide Car  
Bravo Yard  
Team Track  
**SETOUT**

CAR ORDER

CAR ORDER

CAR ORDER  
Box Car  
Dansville  
Furniture Co.  
**SETOUT**

PICKUP ORDER

PICKUP ORDER  
Flat Car  
Bravo Yard  
Team Track  
West Bound  
**CAR ORDERS**

CAR  
ORDERS

SETOUTS

HOLD

PICKUPS

PICKUPS  
WEST

PICKUPS  
EAST

Bravo Yard Team Track

Stock Yard

These cards will be  
turned over to the  
Car Order side.

← WEST BRAVO YARD EAST →

# Bravo Yard Master

West End Staging

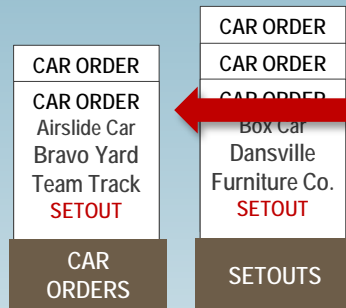
Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging



The cards will then be placed in the CAR ORDERS box to make them available for the next incoming train.

HOLD

PICKUPS

WEST

EAST

Bravo Yard Team Track

Stock Yard

E

W

← WEST BRAVO YARD EAST →

**Now we will  
follow the  
process for  
Local Freight L01  
at Able Yard**



# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarksville

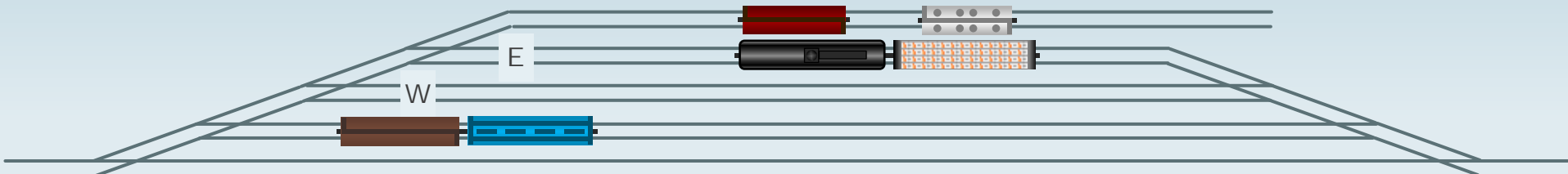
Able Yard

East End Staging

L01

The Able Yard Master will need to build the train for Local Freight L01. The train will pick up cars at Able Yard and do pickups and setouts at Clarksville. It will then return to Able Yard.

Able Yard Team Track



← WEST ABLE YARD EAST →

# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarkesville

Able Yard

East End Staging



CAR ORDER
CAR ORDER
CAR ORDER
CAR ORDER
Hopper Car
Able Yard
Team Track
SETOUT
CAR ORDERS

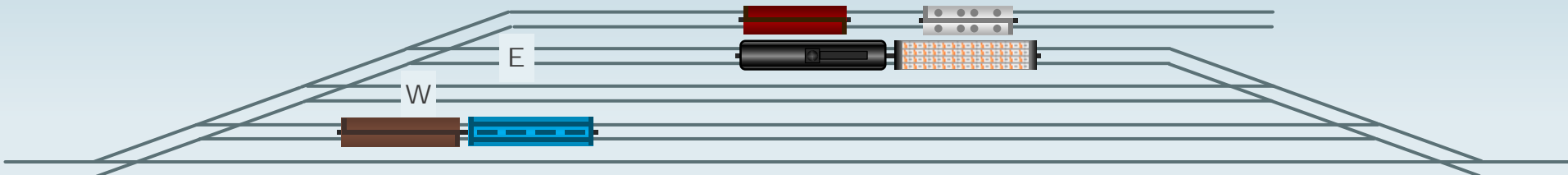
CAR ORDER
Box Car
Clarkesville
Box Factory
SETOUT
SETOUTS

PICKUP ORDER
Box Car
Team Track
West Bound
CAR ORDERS
HOLD

The first step is to look at all of the cards in the SETOUTS box.

PICKUPS
PICKUPS WEST
PICKUPS EAST

Able Yard Team Track



# Local Freight L01

West End

Staging

We can see that both cards are for Local Freight L01.

L01

## CAR ORDER

Able Yard

**Box Car**

*To be set out at*

**Clarkesville**

**Box Industry**

*When car has been set out*

*Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

## CAR ORDER

Able Yard

**Covered Hopper**

*To be set out at*

**Clarkesville**

**Grain Co-op**

*When car has been set out*

*Place this card in the box*

**SETOUTS**

**TURN (HOLD)**

CAR ORDE

CAR ORDE

CAR ORDE

CAR ORDE

Hopper Ca

Able Yard

Team Trac

**SETOUT**

CAR

ORDERS

KUP ORDER

KUP ORDER

lk Head Flat

Able Yard

eam Track

est Bound

**ORDERS**

PICKUPS

EAST

Able Yard Team Track

E

W

← WEST ABLE YARD EAST →

# Local Freight L01

West End Staging

East End Staging

The Bravo Yard Master will then build the train and call for the crew. He will give the Car Orders to the crew to take with them to Clarksville.

CAR ORDER  
CAR ORDER  
Box Car  
Clarkesville  
Box Factory  
SETOUT

CAR ORDER  
CAR ORDER  
CAR ORDER  
CAR ORDER  
Hopper Car  
Able Yard  
Team Track  
SETOUT  
CAR  
ORDERS

SETOUTS

PICKUP ORDER  
Box Car  
Able Yard  
Team Track  
West Bound  
CAR ORDERS

HOLD

PICKUP ORDER  
Cement Car  
Able Yard  
Team Track  
East Bound  
CAR ORDERS

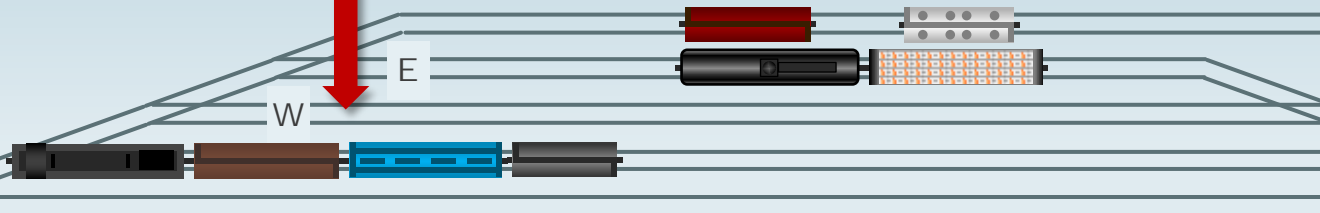
PICKUPS

PICKUPS  
WEST

PICKUP ORDER  
PICKUP ORDER  
Bulk Head Flat  
Able Yard  
Team Track  
West Bound  
CAR ORDERS

PICKUPS  
EAST

Able Yard Team Track



← WEST ABLE YARD EAST →

# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarkesville

Able Yard

East End Staging

L01

CAR ORDER  
CAR ORDER  
CAR ORDER

CAR ORDER  
Hopper Car  
Able Yard  
Team Track  
**SETOUT**

CAR  
ORDERS

SETOUTS

Team Track  
West Bound  
**CAR ORDERS**

HOLD

Team Track  
East Bound  
**CAR ORDERS**

PICKUPS

PICKUPS  
WEST

Team Track  
West Bound  
**CAR ORDERS**

PICKUPS  
EAST

The Local Freight L01 will now continue on to the next stop at Clarksville.

Able Yard Team Track

E

W

← WEST ABLE YARD EAST →

# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarkesville

Able Yard

East End Staging

L01

CAR ORDER

CAR ORDER

Box Car

Clarkesville

Box Factory

SETOUT

The Local Freight L01 has  
now arrived at Clarkesville.

CAR ORDERS

SETOUTS

HOLD

PICKUPS

Grain Co-op

Box Factory

← WEST CLARKESVILLE EAST →

# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarkesville

Able Yard

East End Staging

L01

CAR ORDER

CAR ORDER

Box Car

Clarkesville

Box Factory

SETOUT

SETOUTS

HOLD

The engineer will take the Car Orders and place them in the SETOUTS box.

Grain Co-op

Box Factory

← WEST CLARKESVILLE EAST →



# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarkesville

Able Yard

East End Staging

L01

The engineer will look at the PICKUPS box and see that they have a pick up at the Box Factory.

PICKUP ORDER  
Box Car  
Clarkesville  
Box Factory  
East Bound  
**CAR ORDERS**

PICKUPS

Grain Co-op

Box Factory

← WEST CLARKESVILLE EAST →

# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarkesville

Able Yard

East End Staging

L01

The box car is switched to an available track.

PICKUP ORDER  
Box Car  
Clarkesville  
Box Factory  
East Bound  
**CAR ORDERS**

SETPOINTS

HOLD

PICKUPS

Grain Co-op

Box Factory

← WEST CLARKESVILLE EAST →

# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarkesville

Able Yard

East End Staging

L01

CAR ORDER

CAR ORDER

Box Car

Clarkesville

Box Factory

SETOUT

SETOUTS

The cars that need to be set out are then switched to their location.

Grain Co-op

Box Factory

← WEST CLARKESVILLE EAST →

# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarkesville

Able Yard

East End Staging

L01

The train is assembled and prepared for the return trip to Able Yard.

PICKUP ORDER  
Box Car  
Clarkesville  
Box Factory  
East Bound  
CAR ORDERS

PICKUPS

Grain Co-op

Box Factory

← WEST CLARKESVILLE EAST →

# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

L01

The Car Order for the pick up is removed from the PICKUPS box and kept by the engineer for the return trip to Able Yard.

PICKUP ORDER  
Box Car  
Clarksville  
Box Factory  
East Bound  
**CAR ORDERS**

PICKUPS

Box Factory

← WEST CLARKESVILLE EAST →

# Local Freight L01

Before the engineer can leave Clarksville he must finish the paper shuffle. The Car Orders from the SETOUTS box need to be placed in the appropriate HOLD or PICKUPS box.



CAR ORDER  
CAR ORDER  
Box Car  
Clarkesville  
Box Factory  
SETOUT

SETOUTS

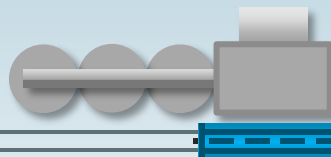
HOLD

PICKUPS

PICKUP ORDER  
Box Car  
Clarkesville  
Box Factory  
East Bound  
CAR ORDERS

Grain Co-op

Box Factory



← WEST CLARKESVILLE EAST →

# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarks

The Car Order for the Box Factory will be placed in the HOLD box because the factory is rebuilding some equipment and it will take several sessions before the car is loaded.

CAR ORDER  
Box Car  
Clarks  
Box Factory  
SETOUT

L01

CAR ORDER  
Covered Hopper  
Clarks  
Grain Co-op  
SETOUT

SETOUTS

HOLD

PIC

Grain Co-op

Box Factory

← WEST CLARKESVILLE EAST →

# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarkesville

Before placing the Car Order in the HOLD box the card must first be turned over to the Pickup side.

PICKUP ORDER  
Box Car  
Clarkesville  
Box Factory  
East Bound  
CAR ORDERS

L01

CAR ORDER  
Covered Hopper  
Clarkesville  
Grain Co-op  
SETOUT

SETOUTS

HOLD

PICKUPS

Clarkesville  
Box Factory  
East Bound  
CAR ORDERS

Grain Co-op

Box Factory

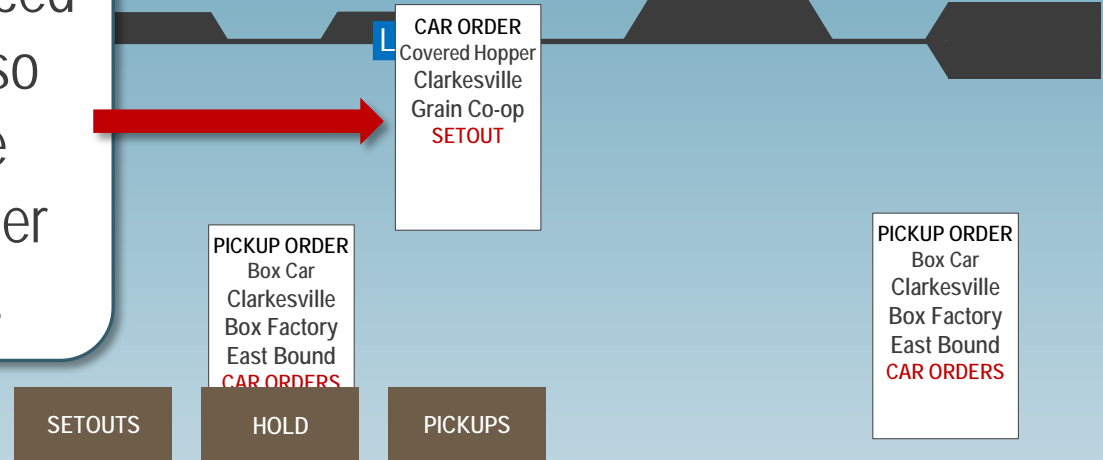
← WEST CLARKESVILLE EAST →



# Local Freight L01

The Car Order for the Grain Co-op will be placed in the PICKUPS box so that the grain can be shipped to the customer as soon as possible.

Clarkeville      Clarkesville      Able Yard      East End Staging

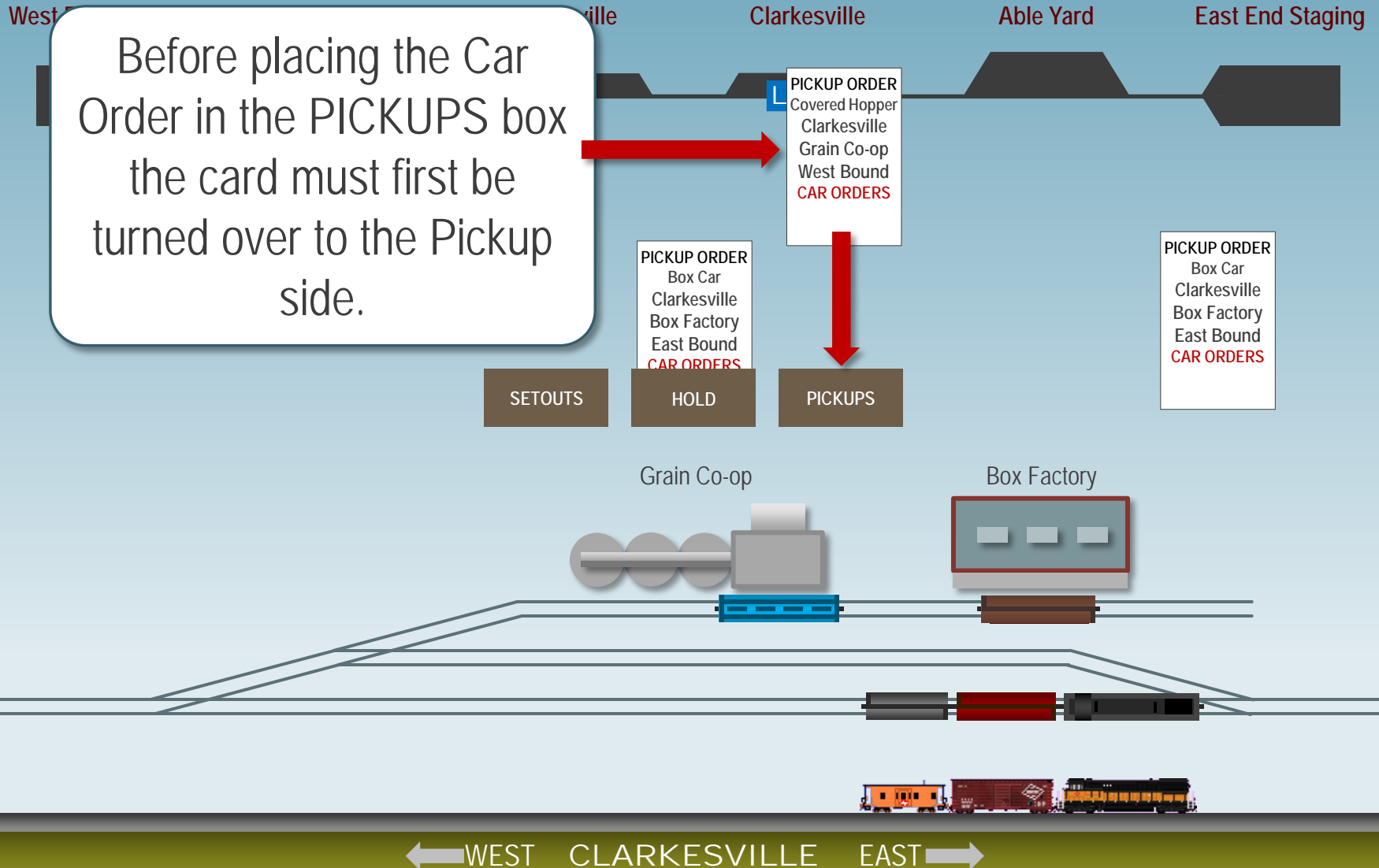


Grain Co-op

Box Factory

← WEST CLARKESVILLE EAST →

# Local Freight L01



# Local Freight L01

West

Now that the paper shuffle is complete  
the engineer can get clearance to  
proceed to Able Yard

Able Yard

East End Staging

L01

PICKUP ORDER  
Box Car  
Clarkesville  
Box Factory  
East Bound  
CAR ORDERS

PICKUP ORDER  
Covered Hopper  
Clarkesville  
Grain Co-op  
West Bound  
CAR ORDERS

PICKUP ORDER  
Box Car  
Clarkesville  
Box Factory  
East Bound  
CAR ORDERS

SETOUTS

HOLD

PICKUPS

Grain Co-op

Box Factory

← WEST CLARKESVILLE EAST →

# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarkesville

Able Yard

East End Staging

L01

The Local has now arrived at Able Yard. The engineer will need to look at the Car Order to determine what needs to be done with the car from Clarksville.

PICKUP ORDER  
Box Car  
Clarkesville  
Box Factory  
East Bound  
**CAR ORDERS**

Able Yard Team Track

E

W



← WEST ABLE YARD EAST →

# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarkesville

Able Yard

East End Staging

L01

CAR ORDER  
CAR ORDER  
CAR ORDER

The Pickup Order tells the engineer that upon arriving at Able Yard the car should be setout on the East bound track.

## PICKUP ORDER

Able Yard

**Box Car**

*To be picked up at*

**Clarkesville**

**Box Industry**

*Road crew to setout car at  
Able Yard on East bound track.*

*When car has been setout  
turn this card and place in*

**CAR ORDERS**

UPS  
ST

Able Yard Team Track

E

W



← WEST ABLE YARD EAST →

# Local Freight L01

West End Staging

Bravo Yard

Dansville

Clarksville

Able Yard

East End Staging

L01

CAR ORDER

CAR ORDER

CAR ORDER

CAR ORDER

Hopper Car

Able Yard

Te

PICKUP ORDER

Box Car

Able Yard

PICKUP ORDER

Cement Car

Able Yard

PICKUP ORDER

PICKUP ORDER

Bulk Head Flat

Able Yard

PICKUP ORDER

Box Car

Clarksville

Box Factory

East Bound

CAR ORDERS

The car is setout on the East bound track and the train is officially terminated.

Able Yard Team Track

E

W

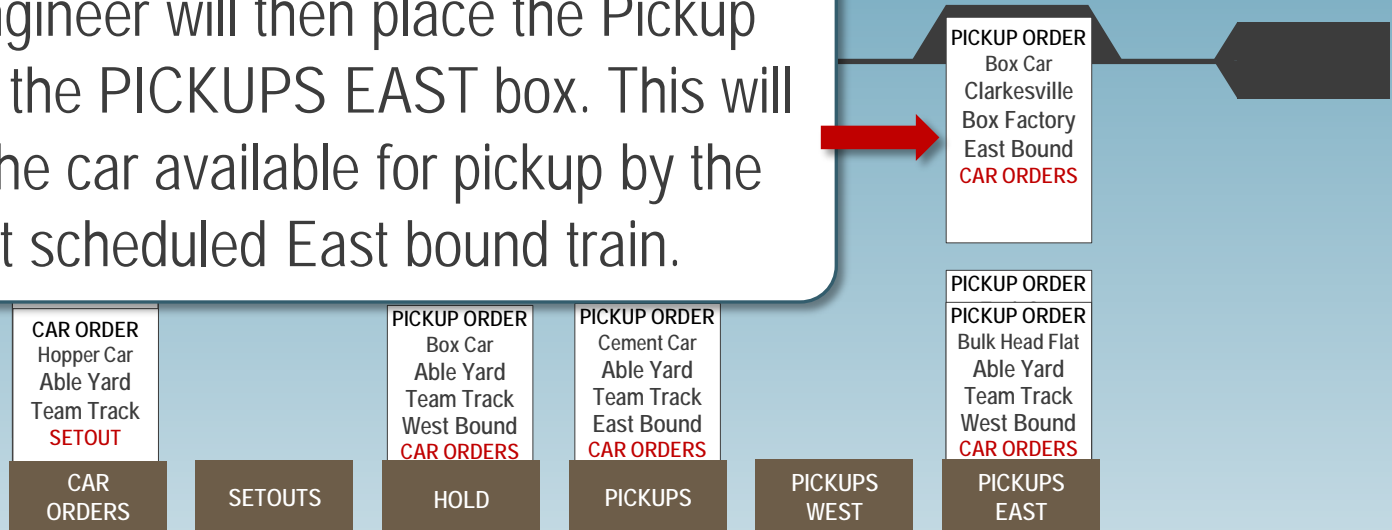


← WEST ABLE YARD EAST →

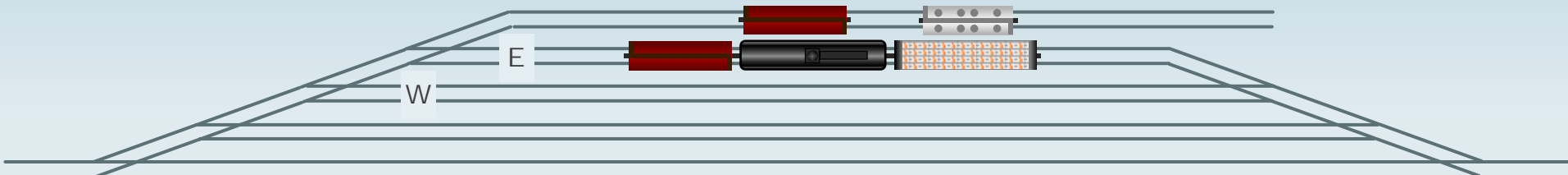
# Local Freight L01

West End Staging      Able Yard      East End Staging

The engineer will then place the Pickup Order in the PICKUPS EAST box. This will make the car available for pickup by the next scheduled East bound train.



Able Yard Team Track



# How to Setup a Car Order System



# The Setup

Start with a blank grid (Spread Sheet)

TOWN	INDUSTRY	# OF SPOTS	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
Total Spots			Total Car Orders					

# The Setup

- The first column of the spread sheet lists each town in order as they appear on your layout



TOWN	INDUSTRY	# OF SPOTS	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
Able Yard								
Clarkesville								
Dansville								
Bravo Yard								
Total Spots			Total Car Orders					

# The Setup

- The first column of the spread sheet lists each town in order as they appear on your layout
- The second column list each industry in order by town they are in



TOWN	INDUSTRY	# OF SPOTS	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
<b>Able Yard</b>	Team Track							
<b>Clarkesville</b>	Grain Co-op							
	Box Factory							
<b>Dansville</b>	Furniture Company							
	Coal & Gas							
	Grain Co-op							
<b>Bravo Yard</b>	Team Track							
	Stock Yard							
<b>Total Spots</b>			<b>Total Car Orders</b>					

# The Setup

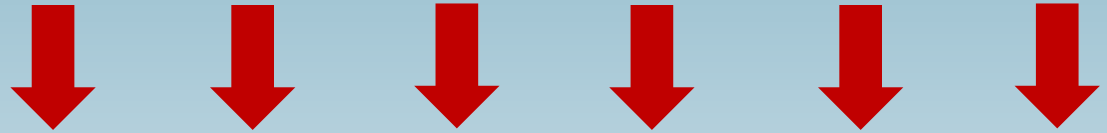
- In column 3 list the number of car spots that each industry has
- In this example: The Able Yard Team Track is on a long spur that can handle 6 cars total so we list 6 spots



TOWN	INDUSTRY	# OF SPOTS	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
<b>Able Yard</b>	Team Track	6						
<b>Clarkesville</b>	Grain Co-op	2						
	Box Factory	2						
<b>Dansville</b>	Furniture Company	2						
	Coal & Gas	2						
	Grain Co-op	2						
<b>Bravo Yard</b>	Team Track	4						
	Stock Yard	2						
<b>Total Spots</b>			<b>Total Car Orders</b>					

# The Setup




- Next list the type of car to go each of the car spots
- Only 1 car per car spot



TOWN	INDUSTRY	# OF SPOTS	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
<b>Able Yard</b>	Team Track	6	Box Car	Flat Car	Hopper Car	Tank Car	Covered Hopper	Cement Hopper
<b>Clarkesville</b>	Grain Co-op	2						
	Box Factory	2						
<b>Dansville</b>	Furniture Company	2						
	Coal & Gas	2						
	Grain Co-op	2						
<b>Bravo Yard</b>	Team Track	4						
	Stock Yard	2						
<b>Total Spots</b>			<b>Total Car Orders</b>					

# The Setup

Complete the list for each town

TOWN	INDUSTRY	# OF SPOTS	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
<b>Able Yard</b>	Team Track	6	Box Car	Flat Car	Hopper Car	Tank Car	Covered Hopper	Cement Hopper
 <b>Clarkesville</b>	Grain Co-op	2	Covered Hopper	Covered Hopper				
	Box Factory	2	Box Car	Box Car				
 <b>Dansville</b>	Furniture Company	2	Box Car	Flat Car				
	Coal & Gas	2	Hopper Car	Tank Car				
	Grain Co-op	2	Covered Hopper	Covered Hopper				
 <b>Bravo Yard</b>	Team Track	4	Box Car	Flat Car	Hopper Car	Tank Car		
	Stock Yard	2	Stock Car	Stock Car				
<b>Total Spots</b>			<b>Total Car Orders</b>					

# The Setup

- Total the number of Car Spots
- Total the number of Car Orders
- These should equal each other
- Now it's time to make the Car Order Cards

TOWN	INDUSTRY	# OF SPOTS	SPOT 1	SPOT 2	SPOT 3	SPOT 4	SPOT 5	SPOT 6
<b>Able Yard</b>	Team Track	6	Box Car	Flat Car	Hopper Car	Tank Car	Covered Hopper	Cement Hopper
<b>Clarksville</b>	Grain Co-op	2	Covered Hopper	Covered Hopper				
	Box Factory	2	Box Car	Box Car				
<b>Dansville</b>	Furniture Company	2	Box Car	Flat Car				
	Coal & Gas	2	Hopper Car	Tank Car				
	Grain Co-op	2	Covered Hopper	Covered Hopper				
<b>Bravo Yard</b>	Team Track	4	Box Car	Flat Car	Hopper Car	Tank Car		
	Stock Yard	2	Stock Car	Stock Car				
<b>Total Spots</b>		<b>22</b>	<b>Total Car Orders</b>		<b>22</b>			

# The Setup

- Many different ways to create the Car Order Cards
  - Hand written
  - Microsoft Word (Windows & Apple)
  - Microsoft Excel (Windows & Apple)
  - Word Perfect (Windows)
  - Open Office (Windows)
  - Pages (Apple)
  - Numbers (Apple)
  - Google Docs & Sheets (Universal)





















# The Setup

## Example : For my Northern Montana Line

- Software used: Microsoft Excel
- Printed on Inkjet Business Card paper (2" x 3½")
- Avery 8371 or Office Depot 717-631

 Northern Montana Line <b>CAR ORDER</b> Lewistown Yard  <b>Box Car</b> To be setout at <b>Lewistown</b> GTA Elevator  When car has been SETOUT Place this card in the box <b>SETOUTS</b>  <b>TURN(HOLD)</b>	 Northern Montana Line <b>CAR ORDER</b> Lewistown Yard  <b>Covered Hopper</b> To be setout at <b>Lewistown</b> GTA Elevator  When car has been SETOUT Place this card in the box <b>SETOUTS</b>  <b>TURN(HOLD)</b>	 Northern Montana Line <b>CAR ORDER</b> Lewistown Yard  <b>Covered Hopper</b> To be setout at <b>Lewistown</b> GTA Elevator  When car has been SETOUT Place this card in the box <b>SETOUTS</b>  <b>TURN(HOLD)</b>	 Northern Montana Line <b>CAR ORDER</b> Lewistown Yard  <b>Refer Car</b> To be setout at <b>Lewistown</b> Freight House  When car has been SETOUT Place this card in the box <b>SETOUTS</b>  <b>TURN(HOLD)</b>
 Northern Montana Line <b>CAR ORDER</b> Lewistown Yard  <b>LPG Tank Car</b> To be setout at <b>Lewistown</b> Centex LPG  When car has been SETOUT Place this card in the box <b>SETOUTS</b>  <b>TURN(HOLD)</b>	 Northern Montana Line <b>CAR ORDER</b> Lewistown Yard  <b>Tank Car</b> To be setout at <b>Lewistown</b> Conoco  When car has been SETOUT Place this card in the box <b>SETOUTS</b>  <b>TURN(HOLD)</b>	 Northern Montana Line <b>CAR ORDER</b> Lewistown Yard  <b>Covered Hopper</b> To be setout at <b>Lewistown</b> Centex & Grain  When car has been SETOUT Place this card in the box <b>SETOUTS</b>  <b>TURN(HOLD)</b>	 Northern Montana Line <b>CAR ORDER</b> Lewistown Yard  <b>Box Car</b> To be setout at <b>Lewistown</b> Heath Gypsum Plant  When car has been SETOUT Place this card in the box <b>SETOUTS</b>  <b>TURN(HOLD)</b>

 Northern Montana Line <b>PICKUP ORDER</b> Lewistown Yard  <b>Refer Car</b> To be picked up at <b>Lewistown</b> Freight House  Road crew to setout car at Lewistown on West bound track When car has been setout turn this card and place in <b>CAR ORDERS</b>	 Northern Montana Line <b>PICKUP ORDER</b> Lewistown Yard  <b>Box Car</b> To be picked up at <b>Lewistown</b> Freight House  Road crew to setout car at Lewistown on East bound track When car has been setout turn this card and place in <b>CAR ORDERS</b>	 Northern Montana Line <b>PICKUP ORDER</b> Lewistown Yard  <b>Covered Hopper</b> To be picked up at <b>Lewistown</b> GTA Elevator  Road crew to setout car at Lewistown on East bound track When car has been setout turn this card and place in <b>CAR ORDERS</b>	 Northern Montana Line <b>PICKUP ORDER</b> Lewistown Yard  <b>Box Car</b> To be picked up at <b>Lewistown</b> GTA Elevator  Road crew to setout car at Lewistown on West bound track When car has been setout turn this card and place in <b>CAR ORDERS</b>
 Northern Montana Line <b>PICKUP ORDER</b> Lewistown Yard  <b>Box Car</b> To be picked up at <b>Lewistown</b> Heath Gypsum Plant  Road crew to setout car at Lewistown on West bound track When car has been setout turn this card and place in <b>CAR ORDERS</b>	 Northern Montana Line <b>PICKUP ORDER</b> Lewistown Yard  <b>Covered Hopper</b> To be picked up at <b>Lewistown</b> Fertilizer & Grain  Road crew to setout car at Lewistown on East bound track When car has been setout turn this card and place in <b>CAR ORDERS</b>	 Northern Montana Line <b>PICKUP ORDER</b> Lewistown Yard  <b>Covered Hopper</b> To be picked up at <b>Lewistown</b> Centex & Grain  Road crew to setout car at Lewistown on West bound track When car has been setout turn this card and place in <b>CAR ORDERS</b>	 Northern Montana Line <b>PICKUP ORDER</b> Lewistown Yard  <b>LPG Tank Car</b> To be picked up at <b>Lewistown</b> Centex LPG  Road crew to setout car at Lewistown on East bound track When car has been setout turn this card and place in <b>CAR ORDERS</b>

# **The 10 Best Reasons to use Car Orders**

# #10

## Night Operations

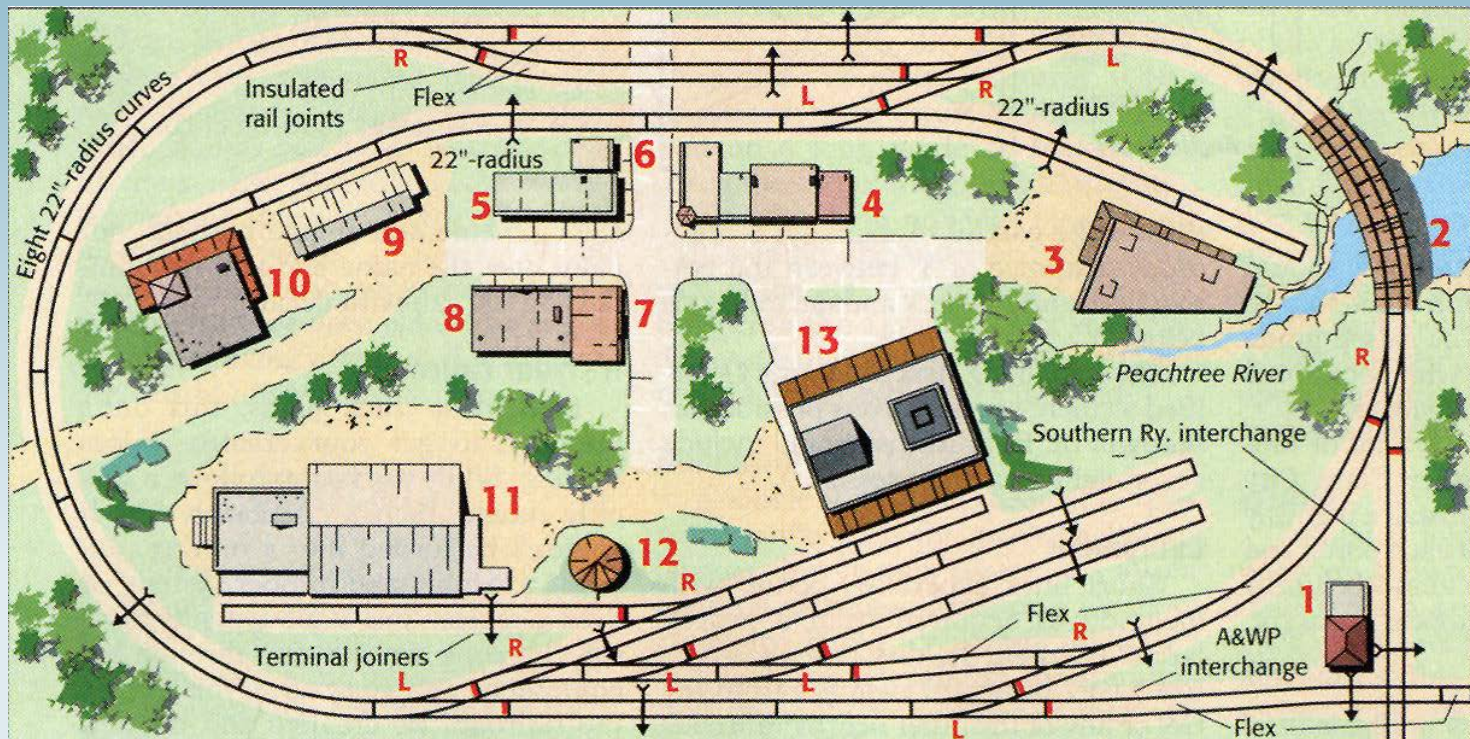
Since you do not need to read car reporting numbers all that is needed is enough light to read the Car Order and be able to see the car type



# #9

Size does not matter!  
Car orders works well any size layout!

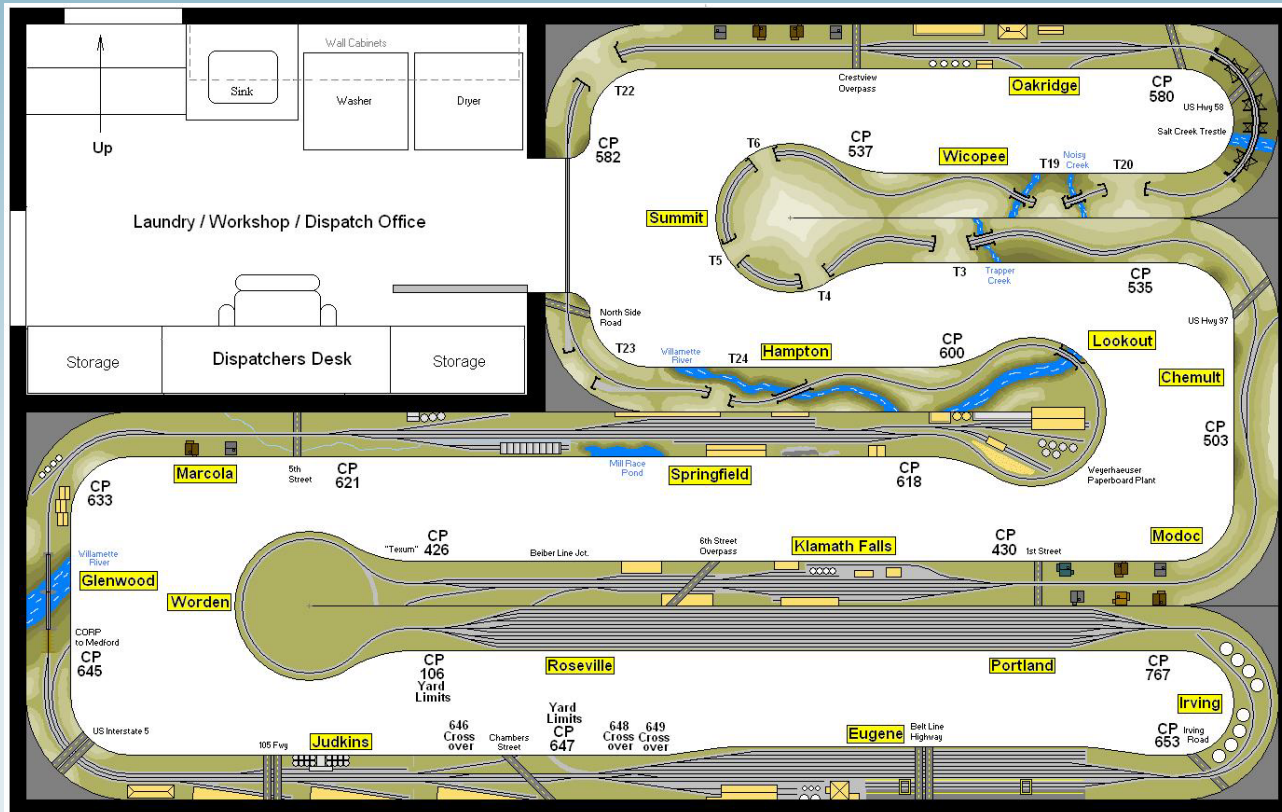
## SMALL





# #9

Size does not matter!  
Car orders works well any size layout!  
Or LARGE



# #8

## Self Correcting

- If a car is in the wrong place the crew can either leave it or pick it up. Their decision does not affect any other operations.
- Find a car with no "PICKUP ORDER", pick it up and route it on the next through freight
- Find a "PICKUP ORDER" with no car, turn the form over to "CAR ORDERS" and place in car order pocket.
- It's so simple even Jack could do it!



# #7

## Adjusting Your Rolling Stock

- Want to add a car to your Rolling Stock?
- Just put it on the layout, no need to make out new car cards, new waybills or change your computer program.



# #7

## Adjusting Your Rolling Stock

- Want to take a car out of service... just take it off
- This works well in clubs where members bring in or take home equipment.





# #6

## Adjusting Your Industries (Car Spots)

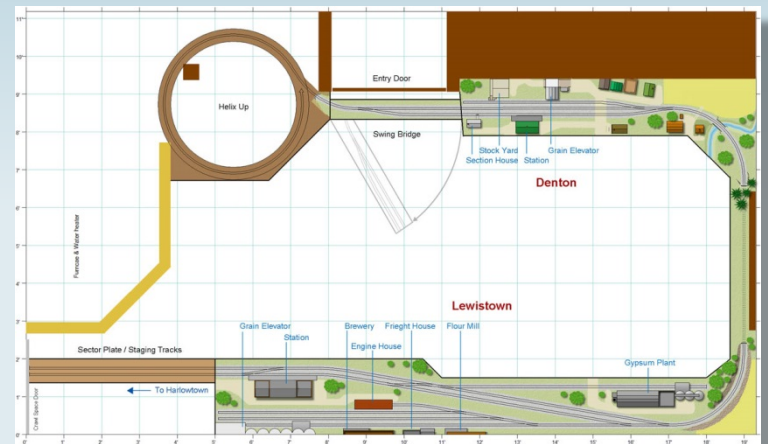
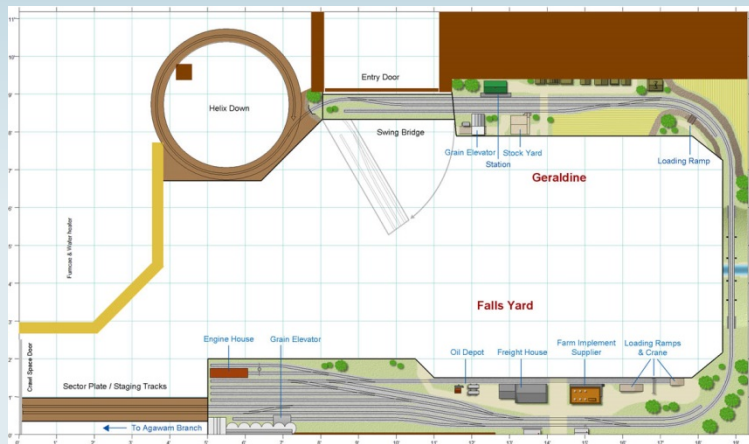
- Want to add a new spur and Industry?
- Put it on the layout, figure the number of car spots and car type for each spot
- Make out new Car Orders
- Want to remove or change an industry?
- Tear up the old Car Orders.



# #5

## Requires Less Setup

- On my home layout “The Northern Montana Line” I have 17 Industries requiring a total of 35 car spots and I have a total of 219 cars in my car fleet
- I will use this information to demonstrate the differences between a traditional waybill & car card system and CAR ORDERS



# #5


## WB & CC

- Required
  - 87 two position waybills
  - 219 car cards
  - For a total of 306 pieces of paper
  - Months to create



## Car Orders

- Required
  - 35 Car Orders
  - 6 hours to create the grid and cards



Northern Montana Line


**CAR ORDER**

Lewistown Yard

**Covered Hopper**  
To be setout at  
**Lewistown**  
GTA Elevator

When car has been SETOUT  
Place this card in the box  
**SETOUTS**

**TURN(HOLD)**



Northern Montana Line

**PICKUP ORDER**

Lewistown Yard

**Covered Hopper**  
To be picked up at  
**Lewistown**  
GTA Elevator

Road crew to setout car at  
Lewistown on East bound track  
When car has been setout  
turn this card and place in  
**CAR ORDERS**

# #4

## Provides For Continuous Operations

- Since the paperwork is done when a car is setout or picked up it is immediately ready for the next train
- Since through freights do not need any waybills or paperwork they are ready for the next run as soon as they get to a staging yard or the end of their run



# #3

## Provides for a Random Rise & Fall in Traffic

- Since a Car Order can be filled by only one car
- It changes the makeup and size of the local freights until that Car Order returns to the Car Order Pocket
- Which changes the size and makeup of other trains
- Which affects the Car Orders that can be filled on future sessions



# #2

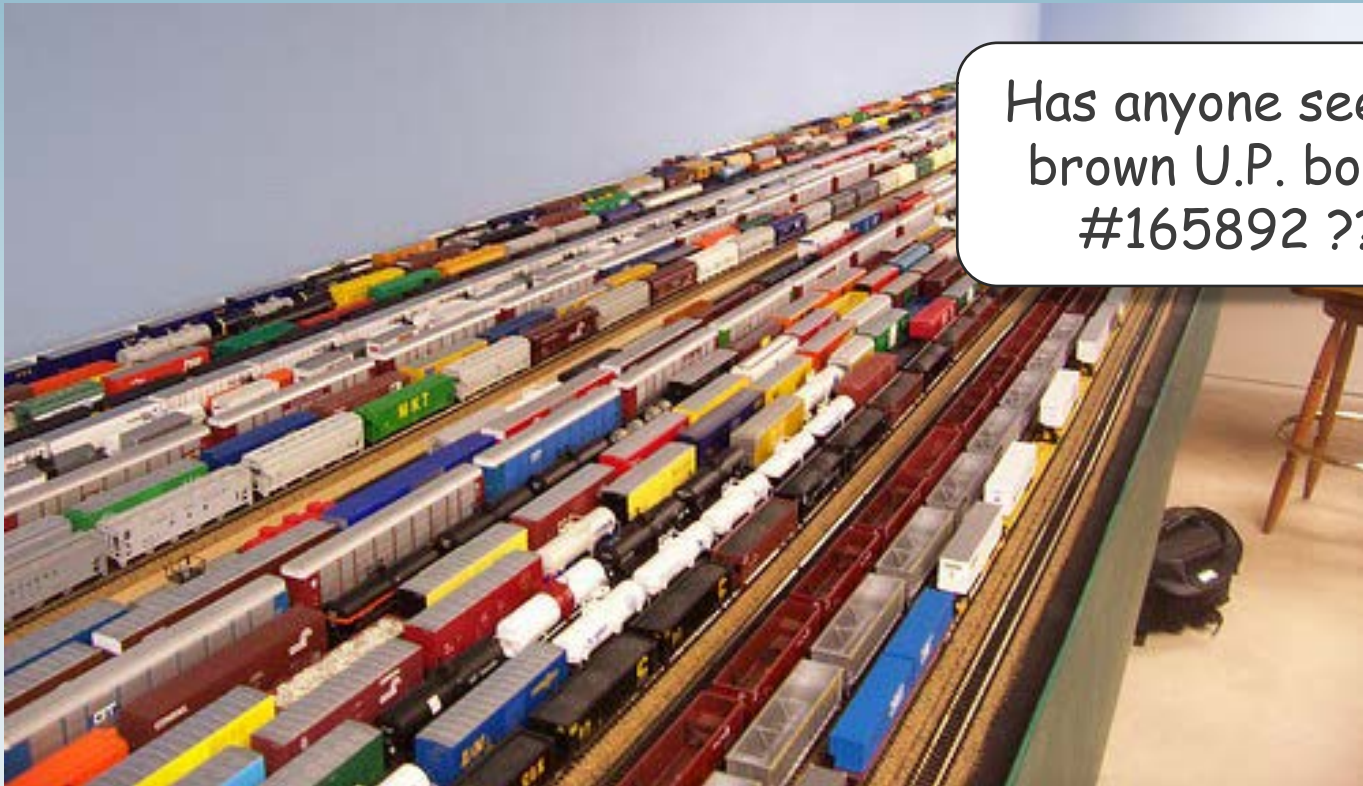
You will not have to worry about confusion caused by duplicate car numbers!





# #1

You will never have to worry about finding the right car by it's number!



Has anyone seen the  
brown U.P. box car  
#165892 ????

# Additional Information

Yahoo Group

<https://groups.yahoo.com/neo/groups/carordersmrr/info>

Website

<http://home.comcast.net/~maxrob/rr/carcards/car.htm>

Publication

NMRA Magazine March 2012



A sunset scene with a road leading to the horizon and a utility pole. The sun is low on the horizon, casting a warm glow. The sky is dark with some clouds. The road is dark and leads towards the horizon. A utility pole is visible on the right side of the road.

*The End*

**Thank You!**