

## Cincinnati East Terminal Turn Puzzle

### Narrative:

You are the engineer of a 2-8-2 steam locomotive on a turn heading west from Sardinia Yard to the yard in Williamsburg, Ohio and back again. Your job is to pick up a cut of reefers in Williamsburg and return to Sardinia. On the way, you will be expected to switch all of the industries between the two towns, dropping off and picking up designated cars as you go, and spotting cars appropriately as requested by the individual customers. You will be required to use the turntable in Williamsburg in order to make the return trip to Sardinia.

### The Rules:

- Travel on the mainline between towns and industries requires that the locomotive be in the lead facing forward, and the caboose on the rear.
- Spurs **A, B, C, D, E, and F** have capacities as indicated on the diagram.  
*Note: The blue dotted rectangle indicates open space/capacity where a car may reside off spot without fouling the main or another switch.*
- You have permission to cross the BNSF mainline. You **DO NOT** have permission to travel on, or occupy the BNSF mainline.
- Williamsburg yard switcher **S5** may be used for yard switching.
- The cars on **L5** and cabooses on **L7** in Williamsburg Yard may not be moved.

### The Puzzle:

1. Spur **A** – Pick up 14; set out 20 (from BNSF transfer track **Y**) at Door #1.
2. Spur **B** – Pick up 16 thru 19 and set out at BNSF Interchange; re-spot 15 to Utility Trailer Mfg. Door #1; set out 5 at UTM Door #2, set out 13 off spot for UTM; set out 6 at Belcher Body Shop Door #2.
3. Spur **C** – Pick up 25 & 26; set out 7 & 8 at Recycle Yard.
4. Spur **D** – Pick up 21 thru 23; set out 3, 4, 10, and 11 for Ernst Concrete.
5. Spur **E** – Pick up 27; set out 9.
6. Spur **F** – Pick up 28 and 29; set out 1 and 2.
7. Williamsburg Yard – Pick up 30 thru 33; set out 27, 28, and 29.
8. BNSF Transfer track – Set out 12.

*Note: Some work can only be done eastbound, while the rest will have to be done westbound due to the position of the industry switches relative to the mainline.  
Also, due to late arrivals at Sardinia, the turn did not have time to be properly blocked.*

Upon departing Williamsburg Yard, no cars are to remain on L1, L2, L8, L9, T1, T2, or block any yard cross-over.