

10 Railroad Preemption Plan

All contract plans shall be plotted “B” size (11”x17”) Railroad Plan sheets shall normally be drawn at a scale of 40:1. This is set with Annotation Scale. You can turn this on and off from many different locations including

- The drawing scale toolbar
- The place active cell dialog
- The place text dialog

For additional information on using Annotation Scale click on the following link:
[MicroStation Users Guide.](#)

Intersection layout shall be drawn showing:

- The railroad preemption plan sheet shall contain the following:
- Traffic Signal Title Block and upper right hand title information
- T.R.S. Drawing Number
- T.R.S. approval signature
- North arrow
- USDOT Crossing number and railroad milepoint (obtained from the Rail Division)
- Normal phase rotation diagram
- Traffic signal railroad preemption sequence text, modified to accurately represent the site specific conditions:
- V.C.O.I. green clear-out phases (if they exist)
- P.C.O.I. value (obtained by Region Traffic Operations Engineer)
- P.C.O.I used to serve V.C.O.I phases (contact Traffic-Roadway Section for this text)
- Limited service phases. If a conflicting FYA indication is present, it must be listed
- Use of Type 7 signal heads
- Use of PTR signs
- A plan view of the intersection and railroad crossing (either to scale or graphically represented not to scale) with the following elements labeled:
- Highway and street names
- Signal equipment shown symbolically, but not labeled (signal poles, mast arms, vehicle heads)
- Signal equipment shown symbolically and labeled:
- PTR signs
- Type 7 signal heads
- Pedestrian phases labeled in the corresponding crosswalk
- Vehicular phases labeled in the corresponding approach lanes
- Signs (ground mounted or overhead) that directly related to the preemption operation, shown symbolically and labeled:
 - “STOP HERE ON RED” sign
 - “NO TURN ON RED” sign

The railroad preemption plan sheet may contain the following additional features:

- The RxR cabinet
- The signal cabinet
- The service cabinet
- The pedestrian signal heads shown symbolically, but not labeled
- The RxR gate locations
- Stationing (if the plan view is to scale)
- Right-of-way
- Each installed, removed, abandoned or retained item shall have the correct bubble and a leader(s) to each item.
- Railroad preemption text for the intersection.
- Pedestrian Clear-Out Interval (P.C.O.I.) time required. Consult the signal timing person in your region/ district for this number.
- The grade crossing system is shown, but not detailed, on the signal plan sheets because the contractor will not be doing the work. This work is paid for through Railroad

NOTE: The Railroad Preemption Plan Sheet is NOT part of the contract plan set!

See next 3 pages for railroad preemption plan examples.

Figure 10-1 | Sample Railroad Preemption Plan

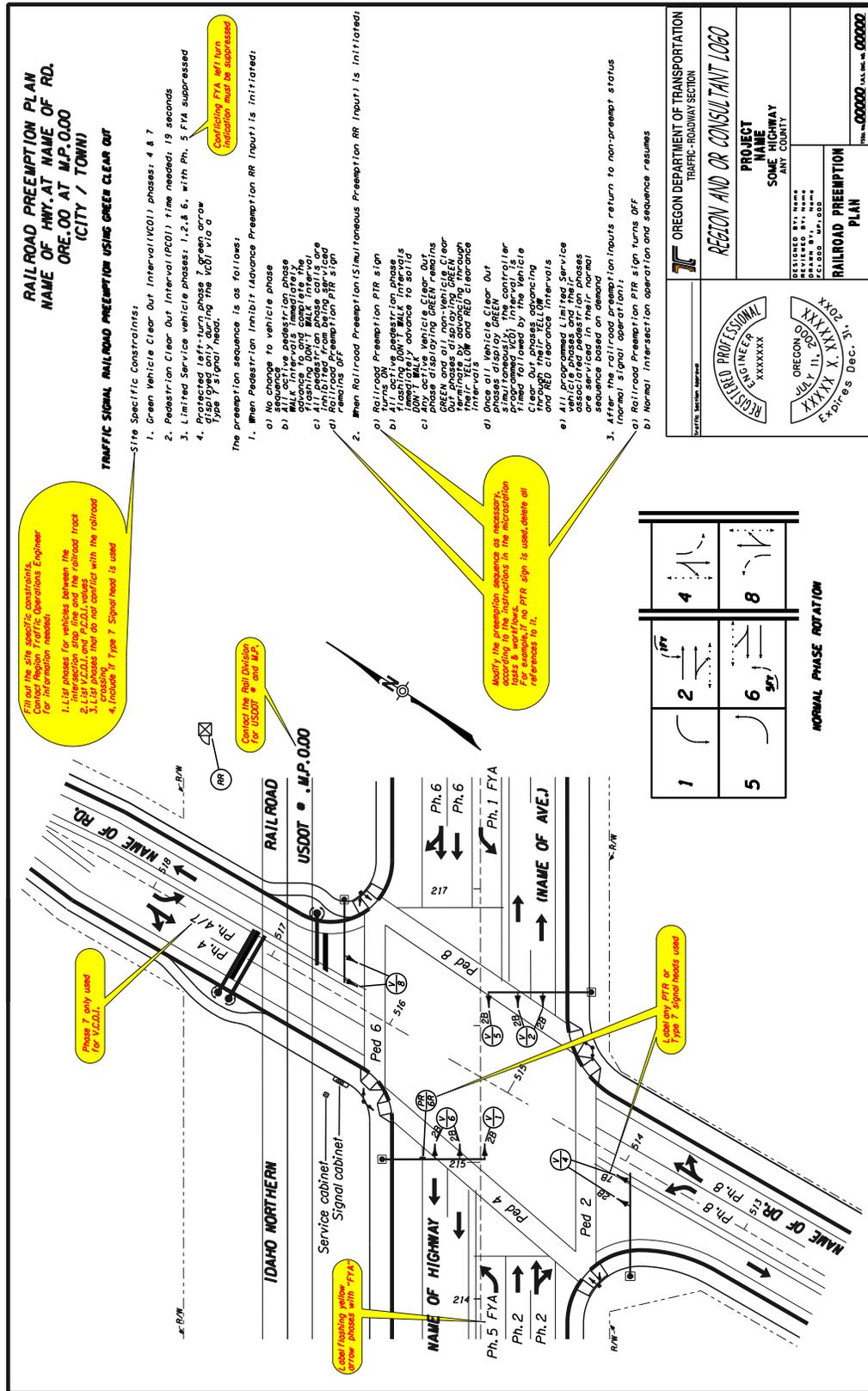
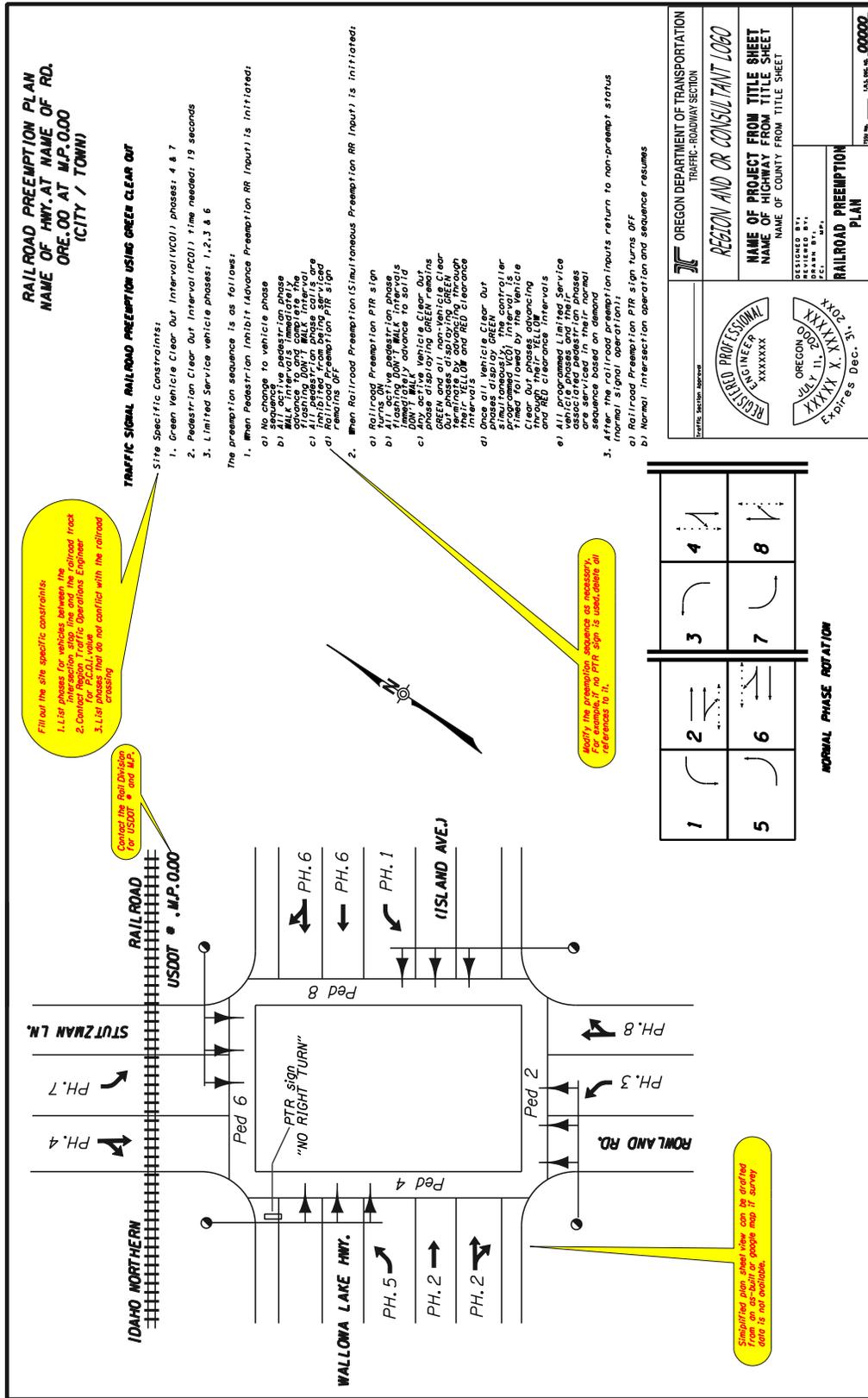


Figure 10-2 | Sample Railroad Preemption Plan



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