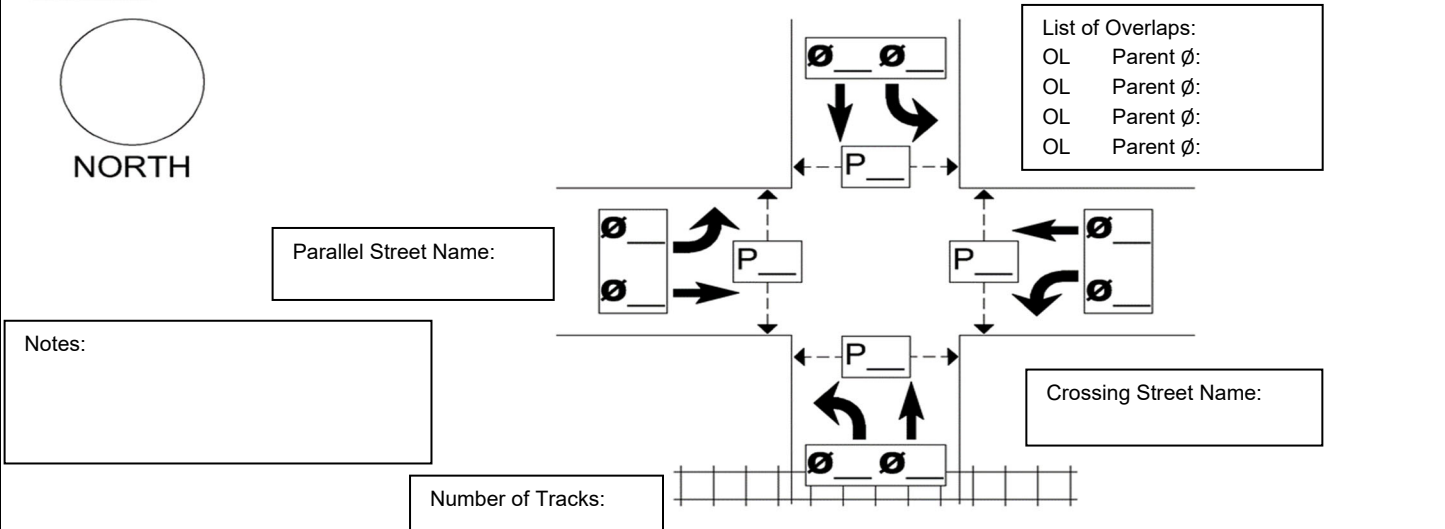


Section 3 – Traffic Signal Timing/Phasing

11. Phasing Diagram under Normal Operations: (Additional diagrams available in Appendix – Additional Intersection Diagrams or provide sketch)



12. Controller response time to preempt (sec):

13. Worst-case conflicting vehicle phase number(s): 14. Worst-case conflicting pedestrian phase number(s):

Track clearance, dwell, and exit settings Designed: Programmed:

15. Track clearance – Clearance phase number(s): Clearance plan number:

a. Preempt Trap resolution: Gate Down Circuit APT+15 Simultaneous Preemption Other:

16. Preemption dwell – Dwell operation: Dwell plan number:
 If limited-service operation – Dwell phase number(s):
 If flash – red/yellow operation – Red flash phase number(s): Yellow flash phase number(s):

17. Preemption exit – Exit phase number(s): Exit plan number:

Remarks:

18. Yellow Trap: During normal operation resolution: Remarks:
During preemption operation resolution: Remarks:

19. Is railroad preemption highest priority in the traffic signal controller? Yes No If no, explain:

Preemption settings	Preempt 1	Preempt 2	Preempt 3	Preempt 4	Preempt 5	Preempt 6
20. Preemption plan purpose: Designed:						
Programmed:						

D = Designed P = Programmed	Value in seconds											
	D	P	D	P	D	P	D	P	D	P	D	P
21. Preempt delay time												
22. Minimum green time during right-of-way transfer												
23. Other green time during right-of-way transfer												
24. Yellow change time												
25. Red clearance time												
26. Minimum walk time during right-of-way transfer												
27. Pedestrian clearance time during right-of-way transfer												
28. Track clearance green time												
29. Track clearance green extension time after gate down												
30. Preempt duration time												
31. Minimum dwell time												
32. Maximum preemption timer (min)												

<u>Section 4 – Railroad Data</u>				
33. Railroad equipment – Predictor Model:				
a. Change since last inspection? Yes No N/A Previous Predictor Model:				
Preemption Programming				
34. Type of Preemption: Simultaneous Preemption Advance (Vehicle) Preemption Advance Pedestrian Preemption				
35. Track # 1 – Main	Railroad Design Speed (mph):			Remarks
	Designed	Programmed	N/A	
a. Warning time				
b. Advance preempt timer				
c. Preempt warning time (Vehicle)				
d. Pedestrian preempt warning time				
e. Approach (feet)				
f. Approach field measured (feet) [If applicable]:				
36. Track # 2 – Main Siding Industry/Spur N/A Remarks:	Railroad Design Speed (mph):			Remarks
	Designed	Programmed	N/A	
a. Warning time				
b. Advance preempt timer				
c. Preempt warning time (Vehicle)				
d. Pedestrian preempt warning time				
e. Approach (feet)				
f. Approach field measured (feet) [if applicable]:				
37. Are there more than 2 tracks programmed at the grade crossing? Yes No a. If yes, include additional track data in <u>Appendix</u>				
38. Do railroad switching moves take place at or within the approaches for this grade crossing?				Yes No
39. Is the grade crossing controlled through a DAX (Downstream Adjacent Xing), or remote location?				Yes No a. If yes, include DAX information in <u>Appendix</u>

<u>Section 5 – Traffic Signal/Active Warning Preemption Testing</u>				
40. Method used for advance (vehicle) testing: Test switch Open relay Train activation Other:				
41. Method used for advance pedestrian testing: N/A Test switch Open relay Train activation Other:				
42. Method used for crossing active testing: N/A Test switch Open relay Train activation Other:				
43. Preemption test during worst-case vehicle phase(s) – Operating as designed? Remarks:				
Yes	No	N/A	a. Field measured Right-of-Way Transfer Time (RWTT) (seconds):	
44. Preemption test during best-case vehicle phase – Operating as designed? Remarks:				
Yes	No	N/A	a. Field measured RWTT (seconds):	
45. Preemption test during worst-case pedestrian phase – Operating as designed? Remarks:				
Yes	No	N/A	a. Field measured RWTT (seconds):	
46. Track clearance reservice/second train - Operating as designed? Remarks:				
Yes	No	N/A		
47. Advance pedestrian preemption test - Operating as designed? Remarks:				
Yes	No	N/A		
48. Crossing active circuit test - Operating as designed? Remarks:				
Yes	No	N/A	a. Field measured RWTT (seconds):	
49. Gate down circuit test - Operating as designed? Remarks:				
Yes	No	N/A		
50. Supervised circuit test - Operating as designed? Remarks:				
Yes	No	N/A		
51. Traffic signal health test - Operating as designed? Remarks:				
Yes	No	N/A		
52. Backup power supply test - Operating as designed? Remarks:				
Yes	No	N/A		
53. Blank out sign(s) test - Operating as designed? Remarks:				
Yes	No	N/A		

List of Attendees

Name:	Company:	Email:	Phone #:

Options list

Section 2 – Traffic Signal Data

- Box
1. **Traffic signal cabinet type:** TS-1; TS-2 Type 1; TS2 Type 2; 332; ACT/ITS; Other (Describe)
 2. **Traffic signal controller:**
Type: 170; 2070; NEMA; Other (Describe)
Manufacturer: Econolite; Intelight; McCain; Siemens; Trafficware; Other (Describe)
Model: 170E; 2070; ASC/2; ASC/3; ATX; Cobalt; EPAC 300; M50; M60; ATC; Other (Describe)
 10. **Designed and Connected configurations:** Blank (if N/A selected); No supervision, single break; No supervision, double break; Supervision, single break; Supervision, double break

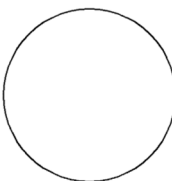
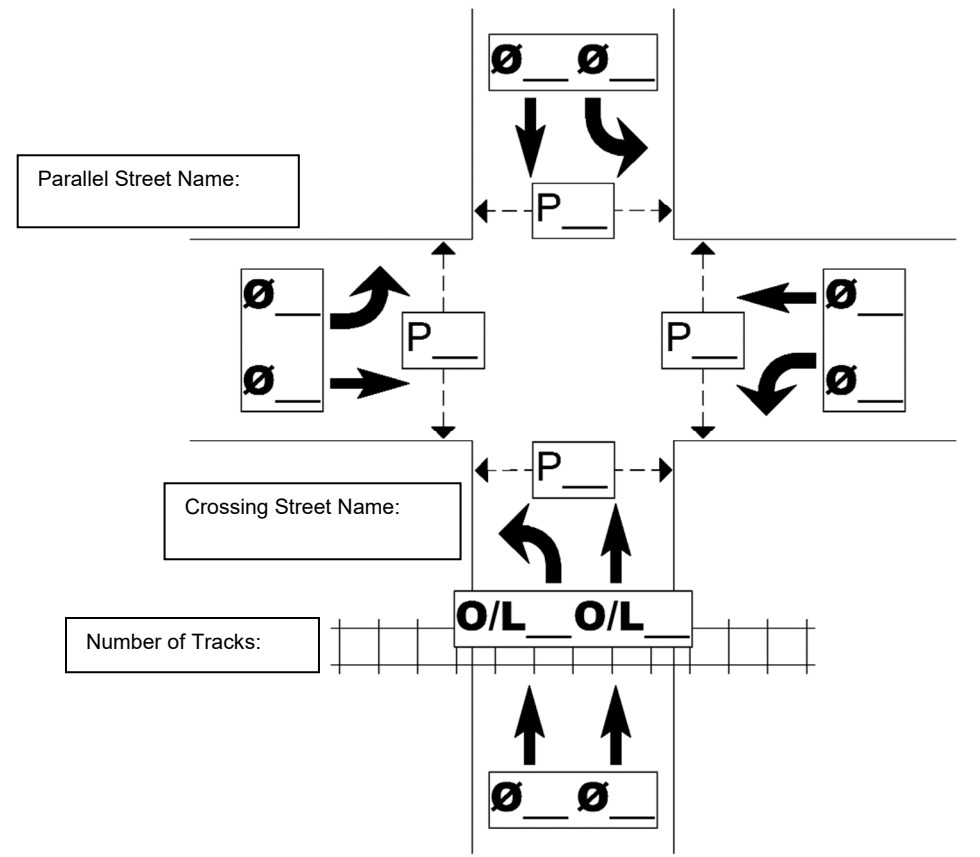
Section 3 – Traffic Signal Timing/Phasing

16. **Preemption dwell – Designed and Programmed:** Limited Service; Full Service; Flash – all red; Flash – red/yellow; Other (Describe)
18. **Yellow Trap Resolution – Normal operation and Preemption operation:** All-red before track clearance green; Flashing yellow arrow; Split phase; No yellow trap; Yellow trap still present
20. **Preemption plan purpose – all preempt plans, both designed and programmed:** (1) Preemption interconnect failure; (2) Advance (Vehicle) preemption - Track clearance only; (3) Simultaneous preemption – Track clearance only; (4) Advance (Vehicle) preemption – Track clearance and dwell; (5) Simultaneous preemption – Track Clearance and dwell; (6) Dwell/Limited Service; (7) Second track clearance; (8) Advance (Pedestrian) preemption; N/A

Section 4 – Railroad Data

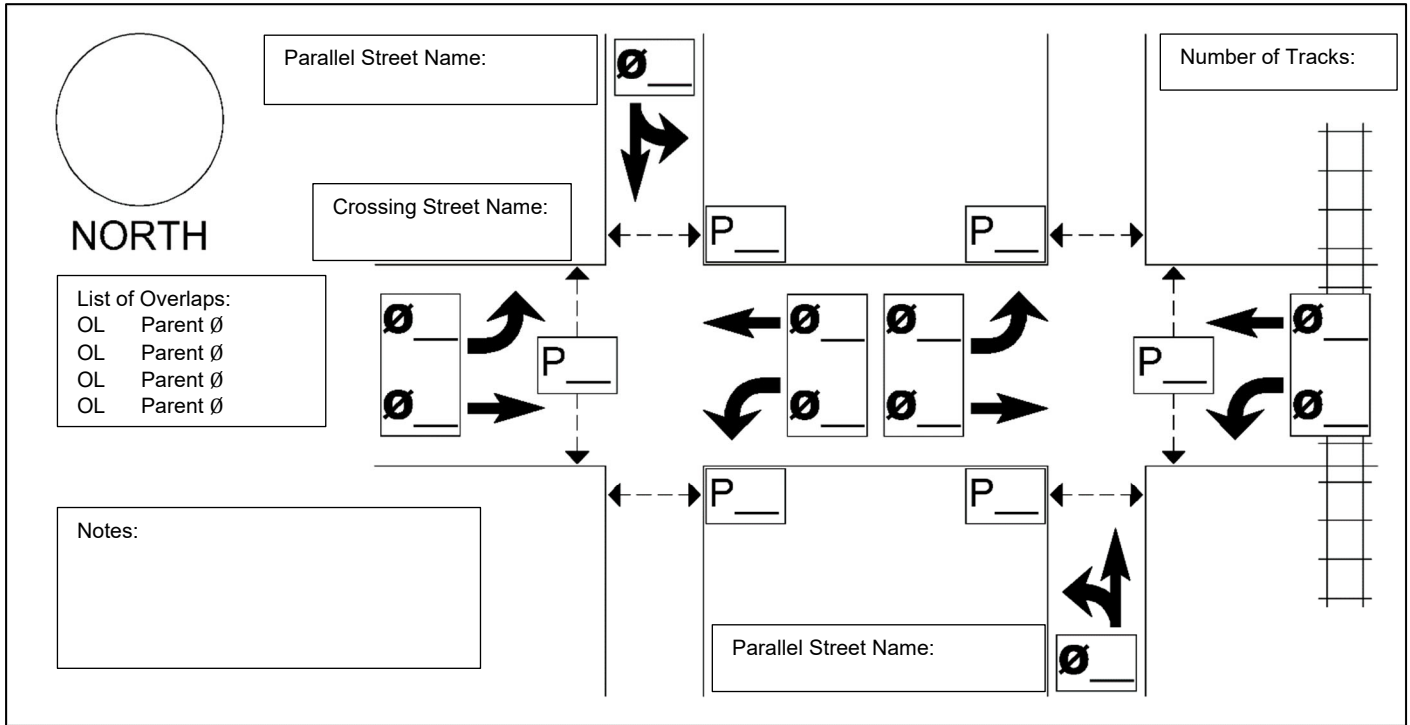
33. **Railroad equipment** – Predictor Model: Ex – GCP3000, GCP4000, GCP5000, HXP2, HXP3, HXP3R, HXP3R2, PMD-2, PMD-3, PMD-4, XP4

<u>Appendix – Pre-signal Data</u>			
54. Describe location of the pre-signal relation to the railroad tracks:	Upstream	Downstream	Remarks:
55. Do motorists routinely stop at pre-signal stop line?	Yes	No	Remarks:
56. Are right turns on red restricted across the railroad tracks?	Yes	No	Remarks:
57. Are the downstream signal indications visible at the pre-signal stop line?	Yes	No	Remarks:
58. Are the pre-signal indications ball or thru arrow indications only?	Yes	No	Remarks:
59. Is the pre-signal progressively timed with the downstream signals?	Yes	No	
a. Designed Clearance Time		b. Programmed Clearance Time	
60. Is a "Stop Here on Red", R10-6 sign installed adjacent to the pre-signal stop line?	Yes	No	Remarks:
61. Is the stop line for the pre-signal located at least 40 feet from the indications?	Yes	No	If no, what is the measurement:
62. Do the pre-signal indications change to and remain red during preemption?	Yes	No	Remarks:
Pre-signal Comments:			

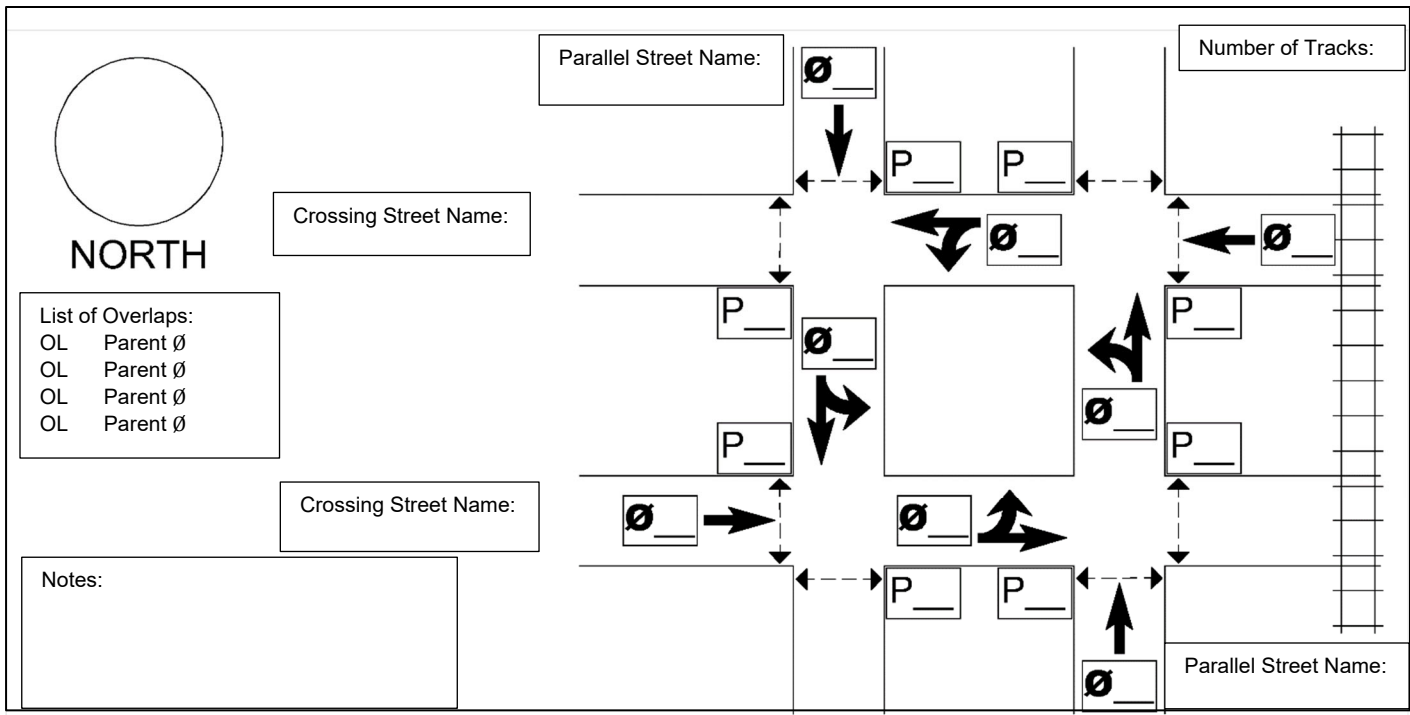
<u>Traffic Signal Phasing with Pre-signal</u>	
<div style="text-align: center; margin-bottom: 20px;">  NORTH </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> List of Overlaps: OL Parent Ø: OL Parent Ø: OL Parent Ø: OL Parent Ø: </div>	<div style="text-align: center; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;">Parallel Street Name:</div> </div>  <div style="text-align: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;">Crossing Street Name:</div> </div> <div style="text-align: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;">Number of Tracks:</div> </div>
Notes:	

Appendix – Additional Intersection Diagrams

Texas Diamond

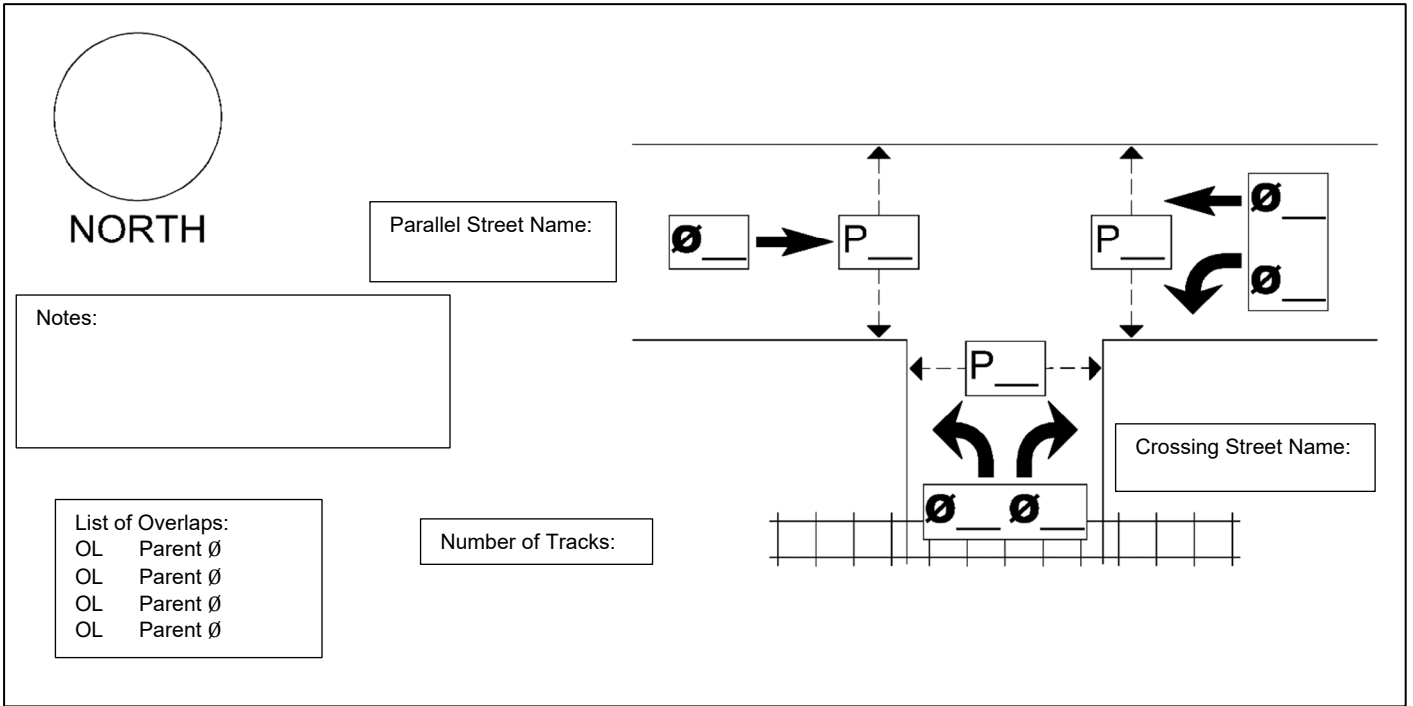


Box Diamond

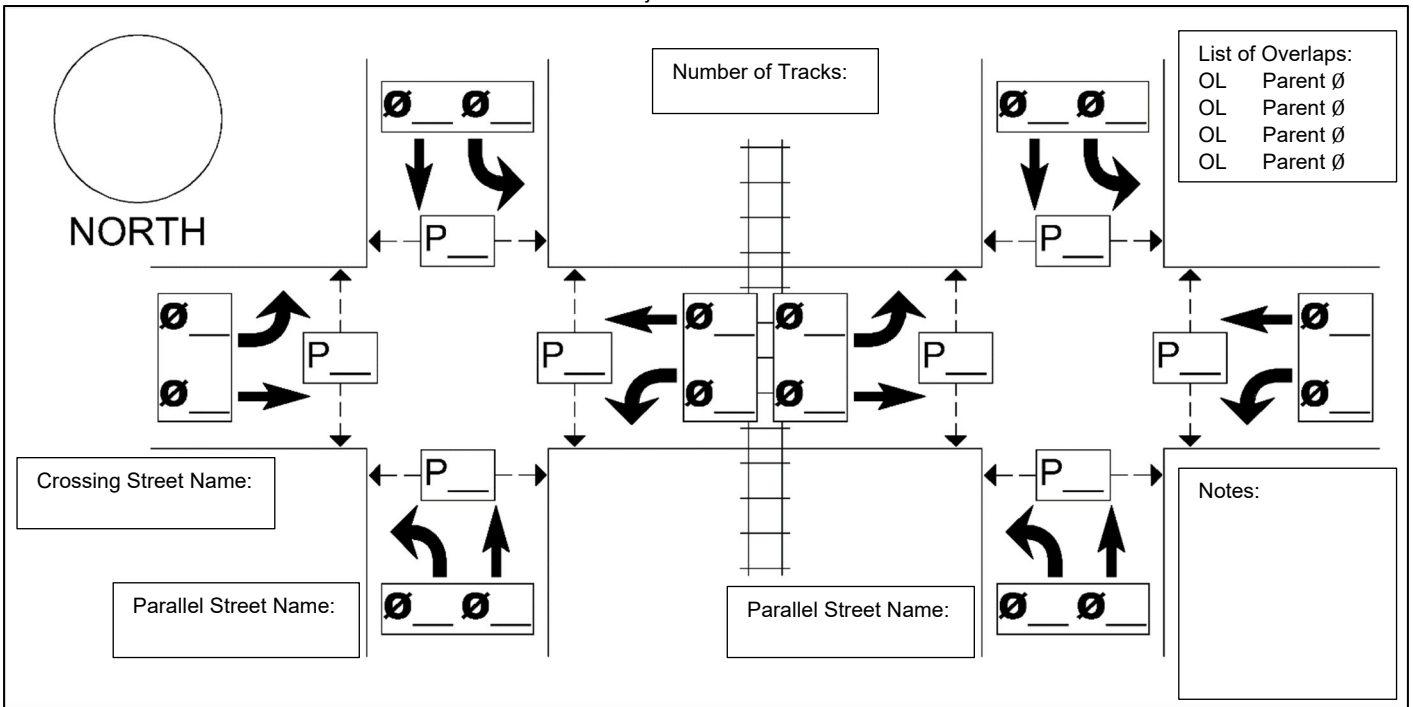


Appendix – Additional Intersection Diagrams

T-Intersection



Adjacent Intersections



Appendix – Intersection Sketch Area

A large, empty rectangular box with a thin black border, occupying the majority of the page below the header. It is intended for a sketch of an intersection.

<u>Appendix – Additional Tracks</u>							
Track #: ___	Main	Siding	Industry/Spur	Railroad Design Speed (mph):			Remarks
				Designed	Programmed	N/A	
a.	Warning time						
b.	Advance preempt timer						
c.	Preempt warning time (Vehicle)						
d.	Pedestrian preempt warning time						
e.	Approach (feet)						
f.	Approach field measured (feet) [If applicable]:						
Track #: ___	Main	Siding	Industry/Spur	Railroad Design Speed (mph):			Remarks
				Designed	Programmed	N/A	
a.	Warning time						
b.	Advance preempt timer						
c.	Preempt warning time (Vehicle)						
d.	Pedestrian preempt warning time						
e.	Approach (feet)						
f.	Approach field measured (feet) [If applicable]:						
Track #: ___	Main	Siding	Industry/Spur	Railroad Design Speed (mph):			Remarks
				Designed	Programmed	N/A	
a.	Warning time						
b.	Advance preempt timer						
c.	Preempt warning time (Vehicle)						
d.	Pedestrian preempt warning time						
e.	Approach (feet)						
f.	Approach field measured (feet) [If applicable]:						
Track #: ___	Main	Siding	Industry/Spur	Railroad Design Speed (mph):			Remarks
				Designed	Programmed	N/A	
a.	Warning time						
b.	Advance preempt timer						
c.	Preempt warning time (Vehicle)						
d.	Pedestrian preempt warning time						
e.	Approach (feet)						
f.	Approach field measured (feet) [If applicable]:						
Track #: ___	Main	Siding	Industry/Spur	Railroad Design Speed (mph):			Remarks
				Designed	Programmed	N/A	
a.	Warning time						
b.	Advance preempt timer						
c.	Preempt warning time (Vehicle)						
d.	Pedestrian preempt warning time						
e.	Approach (feet)						
f.	Approach field measured (feet) [If applicable]:						

<i>Appendix – DAX (Downstream Adjacent Xing) Locations</i>					
Crossing DOT#:		Milepost:	Roadway Name (IF applicable):		
Track #:	DAX Identifier:	Designed	Programmed	N/A	Remarks
a.	Warning time				
b.	DAX warning time				
c.	Offset distance (feet)				
d.	Approach (feet)				
e.	Approach field measured (feet) [if applicable]:				
Crossing DOT#:		Milepost:	Roadway Name (IF applicable):		
Track #:	DAX Identifier:	Designed	Programmed	N/A	Remarks
a.	Warning time				
b.	DAX warning time				
c.	Offset distance (feet)				
d.	Approach (feet)				
e.	Approach field measured (feet) [if applicable]:				
Crossing DOT#:		Milepost:	Roadway Name (IF applicable):		
Track #:	DAX Identifier:	Designed	Programmed	N/A	Remarks
a.	Warning time				
b.	DAX warning time				
c.	Offset distance (feet)				
d.	Approach (feet)				
e.	Approach field measured (feet) [if applicable]:				
Crossing DOT#:		Milepost:	Roadway Name (IF applicable):		
Track #:	DAX Identifier:	Designed	Programmed	N/A	Remarks
a.	Warning time				
b.	DAX warning time				
c.	Offset distance (feet)				
d.	Approach (feet)				
e.	Approach field measured (feet) [if applicable]:				
Crossing DOT#:		Milepost:	Roadway Name (IF applicable):		
Track #:	DAX Identifier:	Designed	Programmed	N/A	Remarks
a.	Warning time				
b.	DAX warning time				
c.	Offset distance (feet)				
d.	Approach (feet)				
e.	Approach field measured (feet) [if applicable]:				
Crossing DOT#:		Milepost:	Roadway Name (IF applicable):		
Track #:	DAX Identifier:	Designed	Programmed	N/A	Remarks
a.	Warning time				
b.	DAX warning time				
c.	Offset distance (feet)				
d.	Approach (feet)				
e.	Approach field measured (feet) [if applicable]:				