CHESAPEAKE AND DELAWARE, LLC BLACK RIVER RAILROAD SYSTEM

XJ ~ Existing Joint CJ ~ Compromise Joint IJ ~ Insulated Joint

	Reference	SPEED	Min. Ft.
	1	Stop and Proceed	45 feet
	2	5 MPH	183 feet
	3	10 MPH	366 feet
	4	15 MPH	550 feet
	5	20 MPH	733 feet
Typical arrangement curve or tangent track	6	25 MPH	880 feet
	7	30 MPH	1027 feet
Minimum ~ See notes and table. — Minimum	— Minimum ∼ See notes and table.— ↓J		
Five feet beyond edge of road or curb			ij

For guidance in new construction and upgrades:

- 1. Typical layout for public grade crossing island where no turnouts or other special track or structures exist.
- 2. Far approach Insulated Joints (IJs) shall installed at exising joints, with existing staggers, unless otherwise specified.
- 3. IJs shall be 6-hole encapsulated, painted yellow, and shall match the section of the existing rail.
- 4. The IJ closest to the crossing shall not be less than, but shall be as close to the minimum distance shown in the speed table.
- 5. Two new 7" x 9" grade creosoted wood ties on nominal 24" centers shall be installed at each IJ.
- 6. Ties at IJs shall be tamped so that joints are supported to match uniform track surface.
- 7. All joints between far approach IJ and road shall be double bonded.
- 8. Proposals shall include vertical profile and stagger plans specific to each crossing.
- 9. All work shall meet applicable NJDOT Commisioner's Order.
- 10. All materials shall be made in the USA, with providence.