Virginia Tech Transportation Institute

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Smart Road – Private Test Track
Vehicle Integration & Data Acquisition
Data Storage & Event Review
Virginia Connected Corridors

Environment that enables the development and assessment of early stage Connected and Automated Vehicle (CAV) applications

Three main components:
- V2X infrastructure
- Connected vehicles
- Applications and interfaces
VCC System Overview
Digital Mapping of Infrastructure

Approach
- Lat / Lon Geo Position
- General Description
- Operational Restrictions

Transition
- Lat / Lon Geo Position
- Beginning of Taper
- End of Taper
- Required Actions
- Merge Direction
- Lanes Offsets / Alternate Paths
- Speed Reduction
- Maneuver Restrictions

Activity Area(s)
- Lat / Lon Geo Position
- Description
- Potential Hazards
- Barrier Type
- Active / Inactive

Termination
- Lat / Lon Geo Position
- Beginning of Taper
- End of Taper
- Resume Speed Limit