Road Safety Assessment Pilot Selection

RRTPO TAC

November 10, 2026

Regional RSA Process

July 2026
- Policy Board adopts Safe by Design
- Action 2 creates a Regional RSA Program

August
- 8 HIN priority corridors presented to TAC with crash summaries

September
- Discussion by need, gaps, readiness and regional context

October
- Review of corridors with localities and VDOT

Today
- Selection of pilot RSA corridor



Why a Regional RSA Program

- An RSA is a formal safety performance examination of an existing road by an independent, multidisciplinary team
- FHWA lists RSAs as a Proven Safety Countermeasure
- Safety Plan Action 2 outcomes:
  - recurring, multi-jurisdictional program
  - community engagement component
  - tiered recommendations that feed Quick Build (Action 4) and capital funding applications
  - public repository of findings

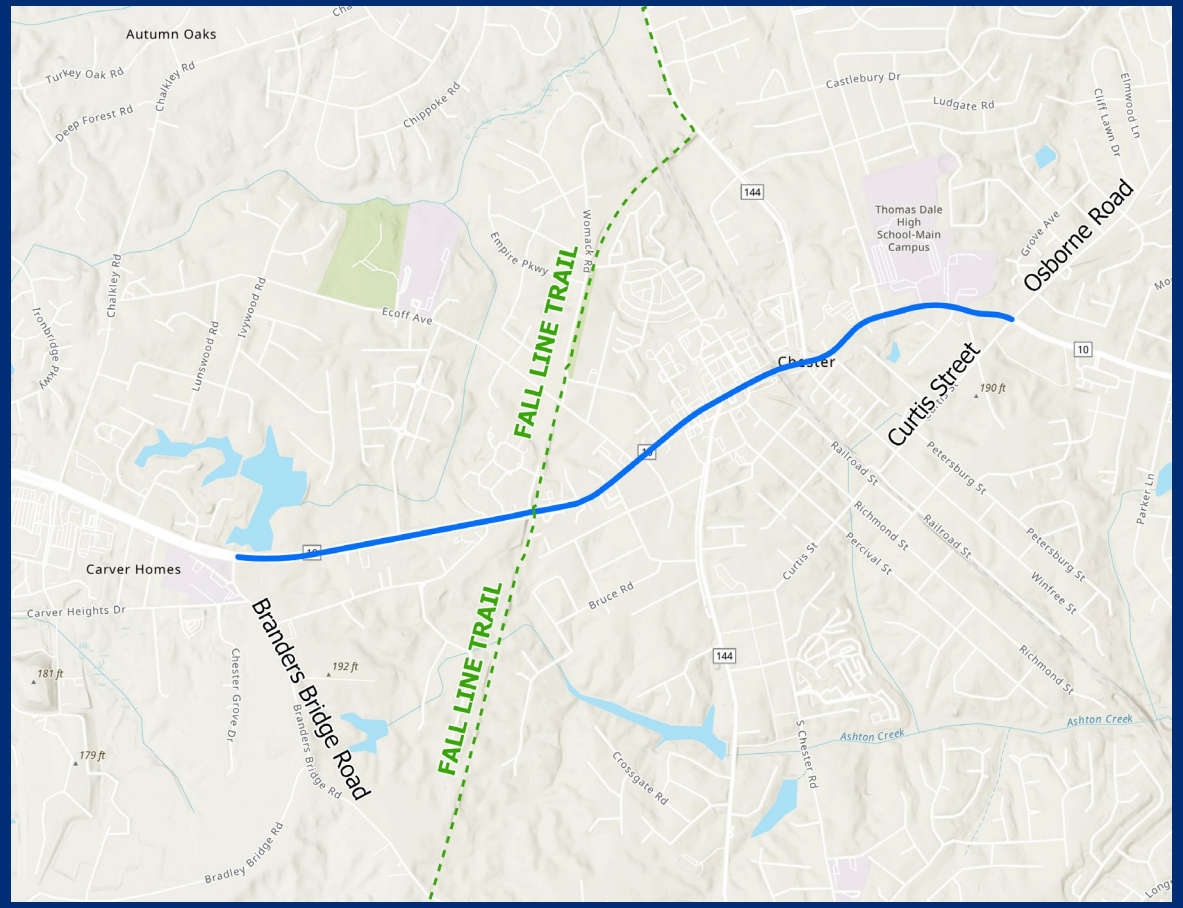


How We Chose

Lens	Question	What it pointed to
Need	Where are people killed and seriously hurt, and who is exposed?	KA crashes, VRU crashes, schools
Gaps	Is anyone already studying it?	No STARS or Pipeline overlap; within a locality/VDOT-identified gap
Readiness	What is the desire for change?	Stakeholders at the table, local RSA experience, a manageable corridor length
Regional context	What will it bring to the region?	A typical suburban arterial whose lessons transfer to other HIN corridors

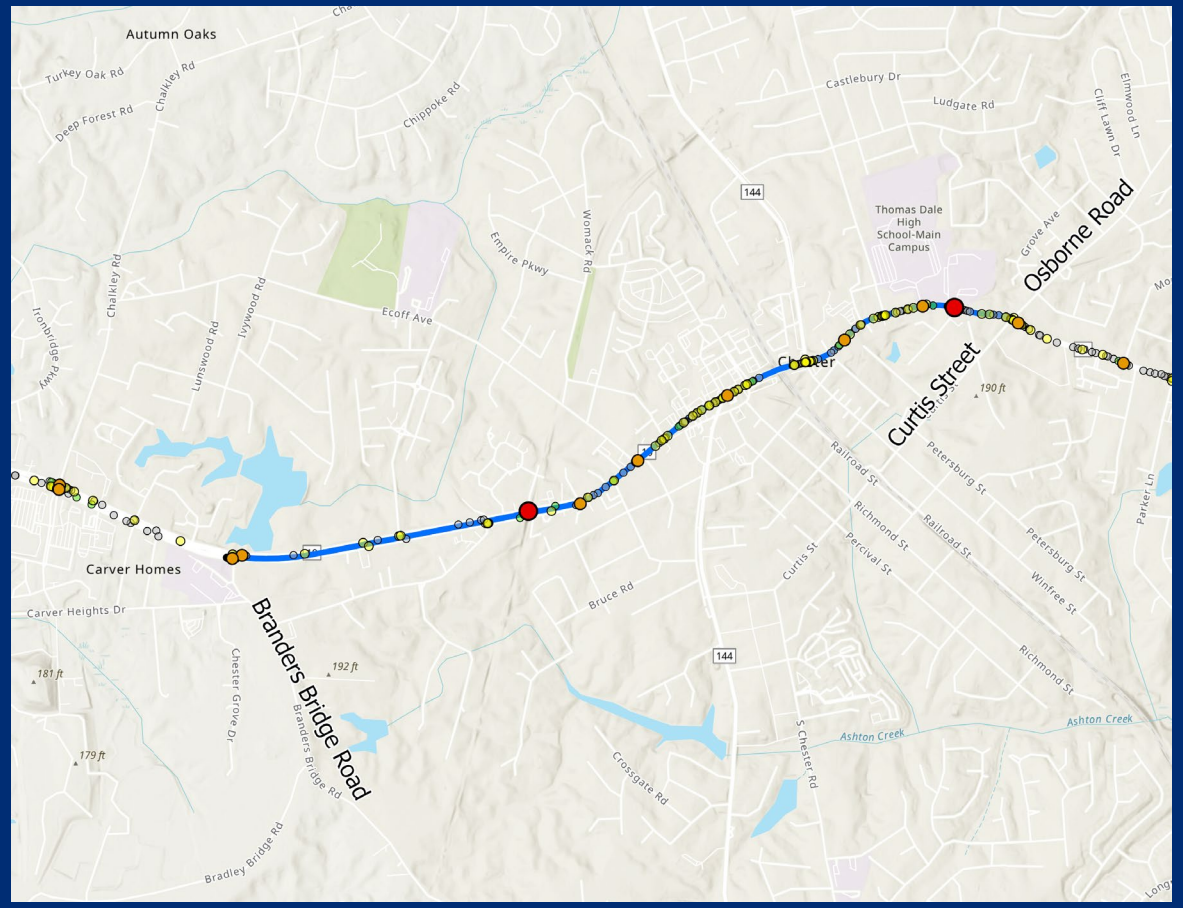
Recommendation

- Route 10 (Iron Bridge Road/W Hundred Road) in Chesterfield
  - Branders Bridge Road to Curtis Street/Osborne Road
- Part of Broad Rock/Iron Bridge HIN Priority Corridor
- 2.4 miles in length
- Mix of commercial, residential
- Multiple schools
- Fall Line Trail



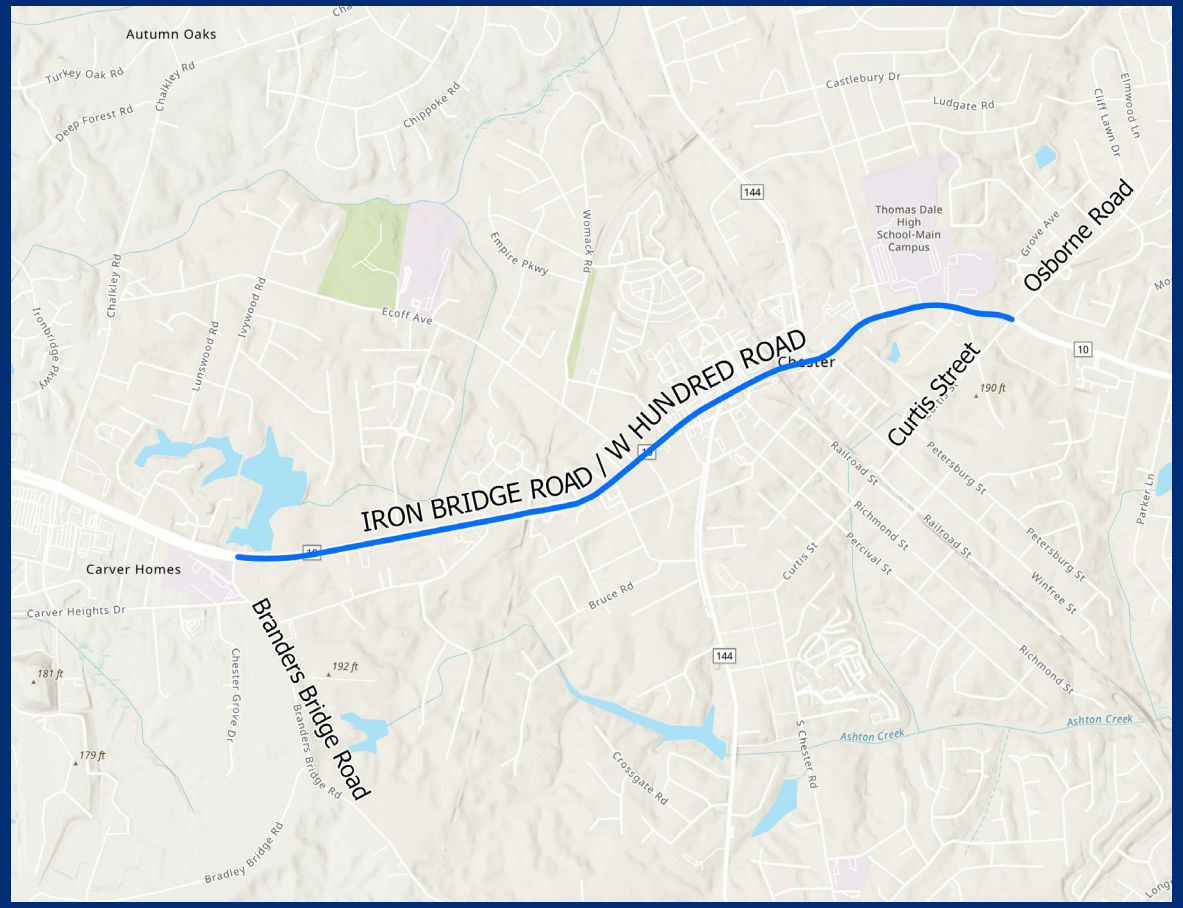
Broad Crash Picture

- 261 Crashes (3/31/21-3/31/26)
  - –2 fatalities
  - –8 severe injuries (1 pedestrian)
  - –78 visible injuries (1 pedestrian, 2 cyclists)
  - –16 non-visible injuries
  - –157 property damage only



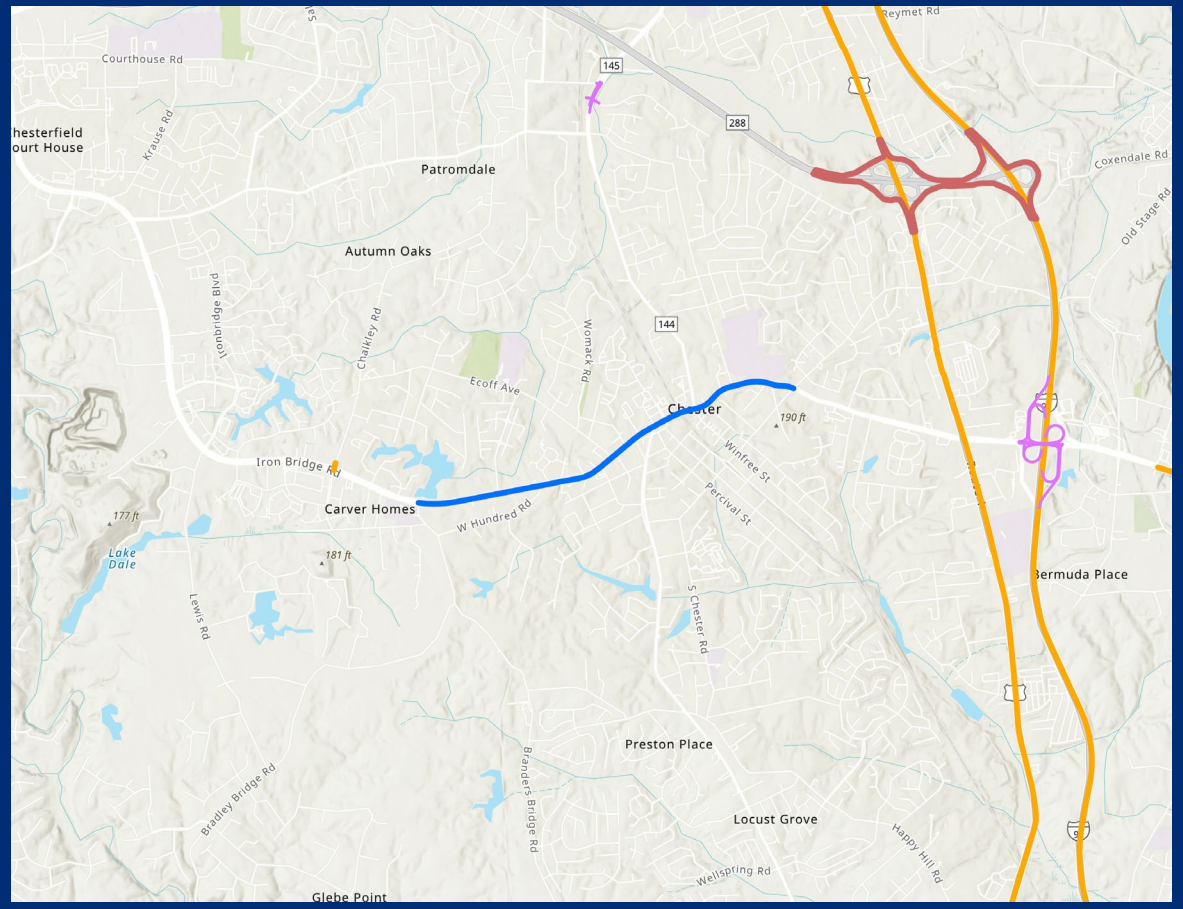
Who Uses this Corridor

- Chesterfield County and Chester in particular experiencing significant growth
- Development in Chester and in adjacent areas along Route 10 and Route 1
- 1 high school, 1 alternative high school, 1 elementary school, preschools/child care



Complementary Study

- Pilot segment falls in a stretch VDOT identified as a gap for future study, not one already covered by previous STARS, Pipeline or corridor study
- Recent major capital projects on the corridor are outside the segment
- Chesterfield's own RSA work on its HIN gives the pilot a local foundation to build on
- Nearby planned signal and trail projects are coordination partners, not overlaps



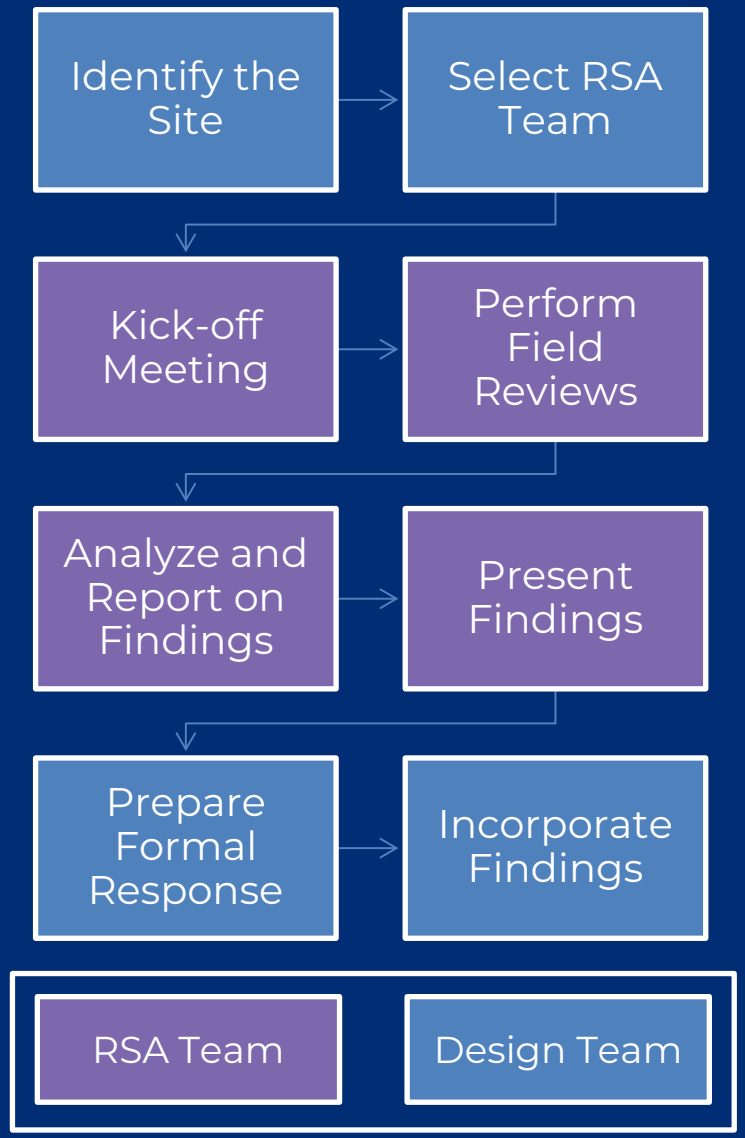
Readiness

- Recent experience with locality RSAs give a working template and familiarity for regional framework
- Spring 2027 timing while CCPS is in session
- Scope of RSA is manageable with one daytime field visit + one nighttime visit



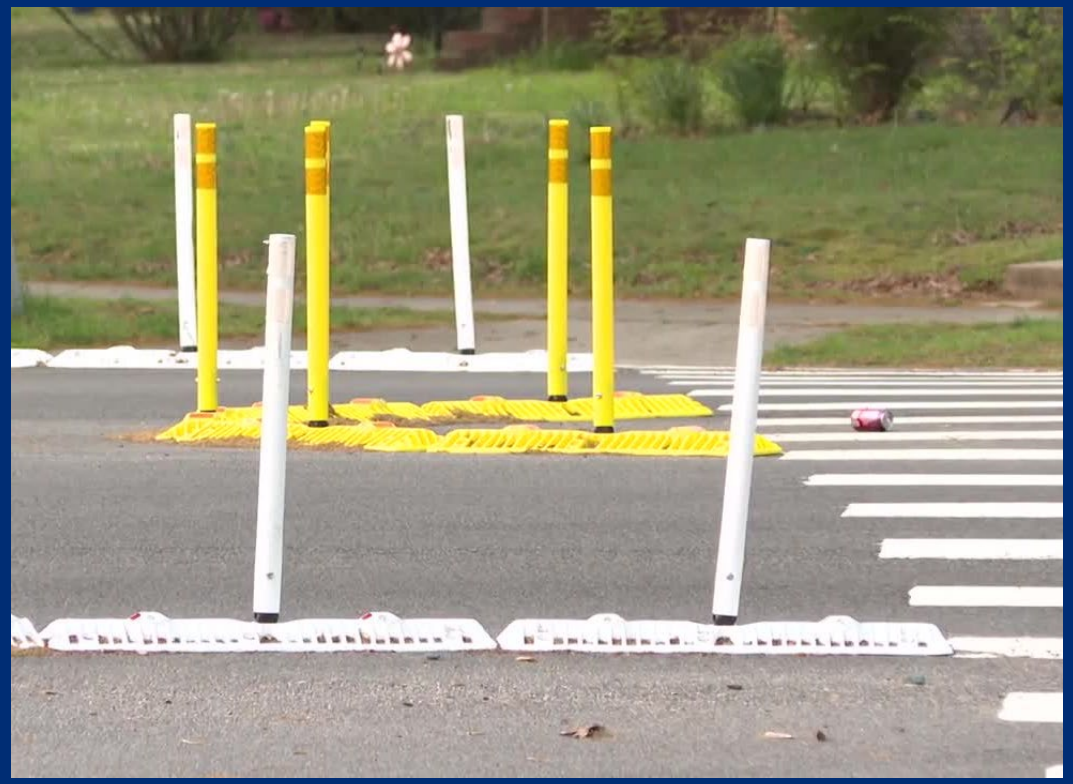
Value of a Regional RSA

- Follow FHWA's eight-step RSA process
- An independent, multidisciplinary team, with VDOT and Chesterfield as primary stakeholders
- Field reviews taking into account school arrival and dismissal, peak hours and night, covering every road user
- Tiered, costed recommendations built on VDOT crash data and VDOT's preferred crash modification factors, with community input built in and the final report posted publicly



Findings to Funding

- State safety funding generally rests on a documented engineering study or RSA, so a well-run RSA gets recommendations in the door
- SMART SCALE can accept a qualifying safety study, which opens a path for larger fixes
- Federal SS4A treats RSAs as eligible planning work, and findings feed future project list
- Short-term fixes can move quickly through Quick Build and local funds



Draft Team

- RRTPO/PlanRVA (lead and facilitator)
- VDOT
- Chesterfield Transportation/Planning
- Chesterfield Police, Fire, EMS
- Chesterfield County Public Schools
- Virginia Department of Health
- Community members: civic associations, business owners, parents, students



Timeline

November 2026	TAC concurrence
December 2026 to January 2027	Scoping with VDOT and Chesterfield; finalize limits, team, data and contractor role
February 2027	Pre-RSA data package; community outreach
March to May 2027	Kick-off meeting and field reviews
June 2027	Draft findings, stakeholder presentation, and response
Summer 2027	Final report to TAC and Policy Board

Recommended Action

The Technical Advisory Committee should select Route 10 (Iron Bridge Road/W Hundred Road) from Branders Bridge Road to Curtis Street/Osborne Road in Chesterfield as the regional pilot RSA and to advance a key deliverable in the FY27 UPWP, being in accordance with the regional safety action plan, *Safe by Design*.