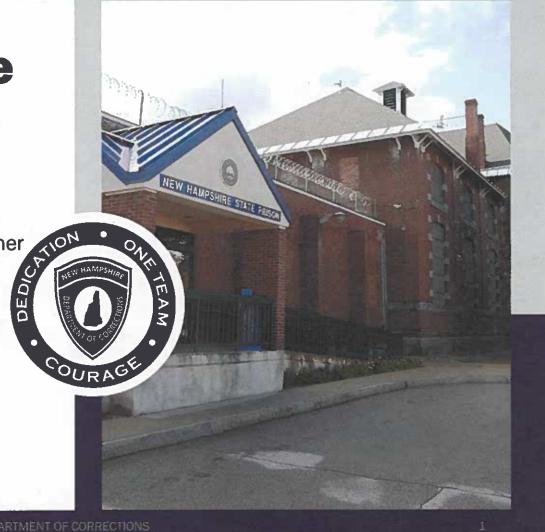
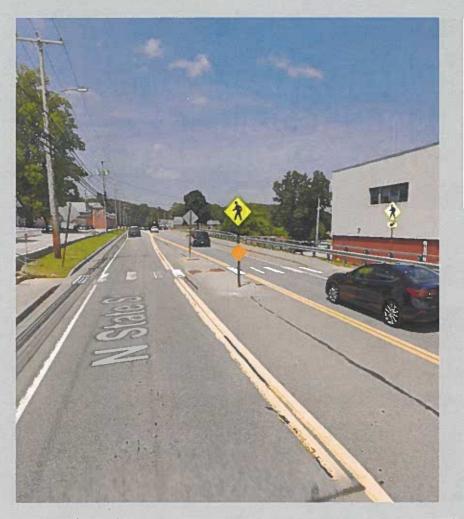
New Hampshire Department of Corrections

Paul Raymond, Jr., Assistant Commissioner Major Matthew Stefanczak, Acting Deputy Warden, NHSP-M

City of Concord Traffic Operations Committee (TOC)

November 19, 2024





The Case for Installing a Rectangular Rapid Flashing Beacon (RRFB)

On Thursday, November 7, 2024, two uniformed staff members were crossing the street while using this crosswalk and nearly got struck by a vehicle.





- Critical Location: Crosswalk at the NH State Prison for Men, 281 North State Street (Route 3), Concord, NH
- Key Users:
 - Staff & Volunteers: Overflow parking
 - Visitors: Often unfamiliar with the area; Overflow parking
 - Warehouse Staff: Accessing the Warehouse/NHSP-M by foot
 - Minimum-Security Resident Workers: Accessing the bus stop and walking to the farm
- Objective: Demonstrate the need for an RRFB to enhance safety and visibility.





- Traffic Factors:
 - Higher-speed vehicular traffic on North State Street
 - Inconsistent driver yielding behavior
- Visibility Issues:
 - Poor visibility during dawn, dusk and nighttime
- Safety Concerns:
 - Potential for crashes, near-misses, and delayed crossings



Benefits of an RRFB

Effectiveness:

- Increases driver yield rates up to 96%.
- Reduces pedestrian injury risk by improving visibility.

Key Features:

- Flashing lights catch driver attention.
- Easy activation for pedestrians.
- Highly effective in both daylight and low-light conditions.

Cost-Effectiveness:

Long-term safety improvement for a reasonable investment.





- High Pedestrian Activity:
 - Facility staff, visitors, volunteers, and resident workers crossing frequently.
- Traffic Flow Characteristics:
 - Speeding vehicles and intermittent surges during peak hours.
- Existing Issues: Current signage, Visibility Enhancements, and Pedestrian Refuge Island not enough.



Why This Location? (Cont.)

- Crash Data Last 3 Years:
 - 31 Crashes in the vicinity of the Prison (Perimeter Road North to Palm Street) – (17) 39% resulted in injuries
 - 2 have been MV vs Pedestrians (both staff members)

Data Not Available:

Near Misses & The Next Crash

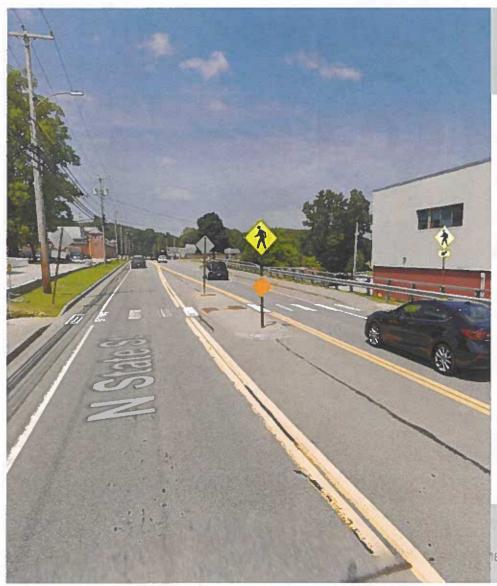


RRFB Success Stories

- Federal Highway Administration Studies
 - Driver yield rates increased dramatically after RRFB installation.
 - Reduces accident rates at high-risk crossing.
- Traffic Flow Characteristics:
 - Speeding vehicles and intermittent surges during peak hours.
- Existing Issues:
 - Current signage, Visibility Enhancements, and Pedestrian Refuge Island not enough.









Thank you

Paul Raymond, Jr.
Assistant Commissioner
Paul.D.RaymondJr@doc.nh.gov

Major Matthew Setefanczak
Acting Deputy Warden, NH State Prison for Men
Matthew.G.Stefanczak@doc.nh.gov