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**Reference: Concord – Low-Cost Safety Improvements**

The Town of Concord is in the process of implementing a two-year paving program which includes preservation maintenance and traditional paving for approximately 18 miles of roadway.

Stantec was provided with lists of community requests for road safety improvements to be considered and where possible be incorporated during the two-year paving program. The requests came from the Complete Streets list, the Jacobs Cut-Through Study, the Mothers Out Front requests, the Traffic Management Group, the West Concord Master Plan and the Safe Route to School Signs and Lines Assessments

It is reasonable to assume that low-cost safety projects can be implemented with the paving program.

**Project Narratives**Project No. 5 Laurel Street Vegetation Maintenance

- 2027 paving program – mill and overlay.
- Trim over-hanging plants and thorny rose bushes.

Project No. 11 Heywood Street (Heywood Meadows) New Ped Crossing and Sidewalk Repair

- No paving program assigned.
- Install new pedestrian curb ramps for new mid-block pedestrian crossing (2 ramps). Two concept plans have been developed – Raised Crossing and Rectangular Rapid Flashing Beacons (RRFB) w/ high visibility crosswalk.
- Sidewalk repair as needed.

Project No. 12 Laurel Street Sidewalk Maintenance

- 2027 paving program – mill and overlay from resurfaced from Stow Street to Walden Street.
- Laurel Street appears to be 20 feet wide or less and is straight, no new pavement markings recommended.
- Proposed new sidewalk for the last 150 feet of Laurel Street on the west side as it approaches Walden Street. Crosswalk and new pedestrian curb ramps crossing Laurel Street at Walden Street.

**Reference: Concord, MA – Low-Cost Safety Improvements**

Sidewalk repair on Walden Street as needed. All new and existing pedestrian curb ramps to have detectable warning panels.

- Reset hand holes (#60) that are not even with the sidewalk.

Project No. 13 Old Marlboro Road Sidewalk Maintenance from Bruce Freeman Rail Trail to Old Rifle Range

- 2026 paving program - mill and overlay from Harrington Avenue to Old Packard Road.
- The speed limit is 35 mph and road measured width is 26-28 feet wide. The pavement markings shall include a double yellow center line and edge lines on both sides. The lane width shall be 11-feet and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows and “Motorist give 4 FT min clearance to Pass” signs.
- The sidewalk near the Old Rifle Range is on the east side of Old Marlboro Road and is separated by a grass strip. Localized HMA sidewalk repairs as needed.

Project No. 14 Pine Street Sidewalk Repairs

- No paving program assigned – only 335 feet to be paved from Upland Rd to Bridge.
- Pine Street is measured near the bridge and is 24 feet wide.
- Localized HMA sidewalk repairs as needed between Riverside Ave and Bridge. Replace east side HMA sidewalk between Central St and Riverside Ave.
- Suggest trial temporary speed humps on the downward approach on each side of the bridge to deter cut-thru traffic on Upland Rd. (See Project No. 45 & 97)

Project No. 15 Everett Street/Stow Street Intersection ADA Improvements

- No paving program assigned.
- Consider raised intersection given steep grading at ramps on west side. This would require engineering.

Project No. 17 Old Bridge Road Traffic Restriction

- No paving program assigned.
- Install “Do Not Enter” and “7 AM - 9 AM” Plaque at the Route 62 end of Old Bridge Road.
- Install temporary speed humps on Old Bridge Road between Crest Street and Bridgecourt Lane. If the temporary speed humps detract cut through traffic, then permanent speed humps should be considered.



**Reference: Concord, MA – Low-Cost Safety Improvements**

Project No. 21 Main Street Bike Accommodation

- 2025 paving program (carry over) - mill and overlay. Coolidge Rd to Old to 9 Acre
- 2026 paving program - mill and overlay. 250' E of Orchard Rd to 392' E of Westgate Rd
- 2027 paving program - mill and overlay. Old Rd to East Side of Rte 2
- The speed limit varies from 25 and 30 mph and road measured width is 28-30 feet wide. The pavement markings shall include a double yellow center line and edge lines on both sides. The lane width shall be 10.5-feet, and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows, 25 mph/MGL provision signs, and "Motorist give 4 FT min clearance to Pass" signs.

Project No. 23 Main Street Ped and Bike Safety from Elm to Belknap

- Recently paved – no markings.
- The speed limit is 30 mph.
- Pavement here is 41 feet wide, further coordination is needed to determine lane width and parking needs to better accommodate motor vehicle traffic and bicycles.
- Install new crosswalks and pedestrian crossing signs.
- Suggest developing pavement marking plan for this intersection.

Project No. 27 Old Marlboro Road (middle school) Recon Sidewalk and ADA Improvement

- 2026 paving program – mill and overlay. Consider pushing this out to 2027 to allow for sidewalk work first.
- Replace east side HMA sidewalk between Spring Rd and southerly school entrance, and between Williams Rd and Captain Miles Ln. Localized HMA sidewalk repairs as needed elsewhere. Install new pedestrian curb ramps and crosswalks.
- The speed limit is 25 and 30 mph and road measured width is 26-28 feet wide. The pavement markings shall include a double yellow center line and edge lines on both sides. The lane width shall be 10.5-feet, and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows and "Motorist give 4 FT min clearance to Pass" signs.

Project No. 28 Reformatory Branch Trail and Lowell Road Crossing Improvement

- 2026 paving program - mill and overlay.
- Construct 3 new pedestrian curb ramps and stripe 2 crosswalks.
- Install advance pedestrian crossing signs. May consider RRFB's across Lowell Rd.

**Reference: Concord, MA – Low-Cost Safety Improvements**

- The speed limit is 35 mph and road measured width is 25-27 feet wide (44 feet wide from 1,000 feet E of Liberty St to 800 feet West of Liberty St). The pavement markings shall include a double yellow center line and edge lines on both sides. The lane width shall be 11-feet, and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows and “Motorist give 4 FT min clearance to Pass” signs. Add buffer line and bike symbols in shoulder at 44 feet wide section.

Project No. 29 Main Street Various Curb Ramp Reconstruction

- No paving program assigned between West Street and Old Stow Road.
- Construct 2 new pedestrian curb ramps across Old Stow Road, Damon Street, Brown Street, West Street and stripe new crosswalks.
- Construct pedestrian ramp bump outs at Library across Main to Concord Academy. This would require engineering.

Project No. 36 Reformatory Branch Trail and Monument Street Crossing Improvement

- 2026 paving program – fog and crack sealing.
- Install RRFB’s with flood lights – hardwire system due to tree canopy.
- Install advance pedestrian crossing signs.
- Add Shark Teeth pavement markings.
- Cut/Trim trees as needed.

Project No. 42 Laws Brook Road Speed Feedback Signs

- No paving program assigned.
- Install solar powered speed feedback sign on Laws Brook Road near Hillside Avenue.
- Refresh markings and add sharrows and “Motorist give 4 FT min clearance to Pass” signs.

Project No. 43 Hillside Avenue Traffic Restriction

- No paving program assigned.
- Install “Do Not Enter” and “7 AM - 9 AM” Plaque at the Laws Brook Road entering Hillside Avenue. Consider trial temporary speed humps to deter cut-thru traffic.



Reference: Concord, MA – Low-Cost Safety Improvements

Project No. 45 Pine Street and Upland Road Traffic Restrictions/Calming

- 2027 paving program - mill and overlay - only 335 feet to be paved from Upland Road to Bridge.
- Consider temporary speed humps on the downward portions of Pine Street.
- Consider temporary speed humps on the straight sections of Upland Road between Pine Street and Old Marlboro Road in both directions. (See Project No. 14 & 97)
- If temporary speed humps are not used, consider radar speed feedback signs.
- Paint Double Yellow Center line for 50 feet on Upland Road approaching Old Marlboro Road.
- Install “Do Not Enter”, “7 AM - 9 AM” and “4 PM - 6 PM” Plaque entering the southern section of Pine Street install prior to Pleasant Street.



Project No. 48 Thoreau Street New Sidewalk from High School Driveway to Walden Street

- 2027 paving program - mill and overlay.
- Install two pedestrian curb ramps across the high school driveway on Thoreau Street and stripe a new crosswalk.

Project No. 51 Main Street (Concord Center to West Concord) Bike Lanes

- 2025 paving program (carry over) – mill and overlay between Coolidge Road and ORNAC.
- 2026 paving program - mill and overlay between 250 feet E of Orchard Road and Cottage Street.
- 2027 paving program - mill and overlay between ORNAC and Route 2.
- Between Coolidge Road and Route 2, the speed limit is not posted, and road measured width is 28 feet wide. The pavement markings shall include a double yellow center line and edge lines on both sides. The lane width shall be 10.5-feet, and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows, 25 mph/MGL provision signs, and “Motorist give 4 FT min clearance to Pass” signs.
- Between 250 feet E of Orchard Road and Cottage Street, the speed limit is 25, 30 and 35 mph and road measured width is 30 feet wide. The pavement markings shall include a double yellow center line and edge lines on both sides. The lane width shall be 11-feet, and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows, 25 mph/MGL provision signs, and “Motorist give 4 FT min clearance to Pass” signs.
- Install bike symbols where shoulder is at least 4 feet wide.
- Suggest developing marking plans for intersections along this corridor.

Reference: Concord, MA – Low-Cost Safety Improvements

Project No. 53 Thoreau Street Speed Feedback Signs (See Active Project No. 83)

- 2027 paving program - mill and overlay.
- Install radar speed feedback signs on both sides of Thoreau Street Near Emerson Playground.
- Install double-sided pedestrian crossing signs. Construct pedestrian ramp bump outs at Belknap, middle and mid-block crossing. This would reduce parking spaces and require engineering.
- The speed limit varies between 25, 30 and 35 mph and road measured width is mostly 27 feet wide, with small sections up to 38 – 42 feet wide, the pavement markings shall include a double yellow center line and edge lines on both sides. The lane width shall vary between 10.5 and 11-feet and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows and “Motorist give 4 FT min clearance to Pass” signs.
- Suggest developing pavement marking plans for intersections along this corridor.

Project No. 54 Main Street Sign Maintenance

- No paving program assigned.
- Move advance pedestrian crossing sign between Conant Street and Prairie Street before the utility pole or if left in the current location, trim branches to make more visible.

Project No. 55 Middle Street Traffic Restriction

- No paving program assigned.
- Install “Do Not Enter” and “7 AM - 9 AM” Plaque entering the east end of Middle Street. Splitter island is not recommended for this short residential street. Curb ramps will be constructed with resurfacing of Thoreau Street.



Project No. 57 Central Street Sign Relocation

- No paving program assigned.
- The stop sign and school speed limit sign should not be on the same post. Move the school speed limit sign 150 feet east.

Project No. 58 Main Street at West Street ADA Improvement (See Project No. 29)

- No paving program assigned.
- Reconstruct pedestrian curb ramp and install detectable warning panel on the east and northwest corner.

Reference: Concord, MA – Low-Cost Safety Improvements

Project No. 59 Main Street/West Street Signage & Crosswalk Enhancement

- No paving program assigned.
- Install a RRFB (double sided).

Project No. 61 Pine Street Signage Update

- No paving program assigned.
- Update “Children” sign with MUTCD compliant sign.

Project No.67 Main Street/Route 62 Bicycle Accommodation (See Project No. 51)

- No paving program assigned. (outside limits identified under Project No. 51)
- Install “Motorist give 4 FT min clearance to Pass” signs every 200 feet on both sides of Main Street.
- Add/re-paint shoulder/guideline markings.



Project No. 75 Old Marlboro Road Speed Feedback Signs

- 2026 paving program - mill and overlay.
- Install two speed feedback signs on both sides of Old Marlboro Road just south of Harrington Avenue.
- See Project No.13 for pavement striping.

Project No. 77 Brown Street at Main Street Intersection curb ramp installation and crosswalk across Brown Street

- No paving program assigned.
- Avoid another mid-block crossing, use West Street intersection mid-block crossing (See Project No. 59) to connect northerly sidewalk along Main Street.
- Construct new pedestrian curb ramps with detectable warning panels and re-stripe crosswalk across Brown Street.

Project No. 79 Barretts Mill Road Speed Feedback Signs

- 2026 paving program - mill and overlay.
- Install two speed feedback signs on both sides near Colonel James Barrett House on Barretts Mill Road. Install continuous centerline sinusoidal rumble strip and install chevrons signs on the curve at College Road.

**Reference: Concord, MA – Low-Cost Safety Improvements**

- The speed limit is 30 mph and road measured width is 24 feet wide. The pavement markings shall include a double yellow center line and edge lines on both sides. The lane width shall be 10.5-feet, and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows and “Motorist give 4 FT min clearance to Pass” signs.

Project No. 84 Laurel Street / Thoreau Street Intersection Improvements

- 2027 paving program - mill and overlay.
- Coordinate with CMLP to replace utility pole at the end of Laurel Street and install new cobra head fixture.

Project No. 86 Center Village Drive at Main Street Intersection curb ramp installation and crosswalk across Center Village Drive

- No paving program assigned.
- Construct new pedestrian curb ramps with detectable warning panels and re-stripe crosswalk across Center Village Drive.

Project No. 88 Thoreau Street Tennis Court Pavement Markings and Signage

- 2027 paving program - mill and overlay.
- The speed limit varies between 30 and 35 mph and road measured width is 27 feet wide, the pavement markings shall include a double yellow center line and edge lines on both sides. The lane width shall be 10.5-feet, and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows, 25 mph/MGL provision sign, and “Motorist give 4 FT min clearance to Pass” signs.
- Revised pedestrian crossing signs to be double-sided (back-to-back) and have reflectorized vertical strip installed on signpost. Re-stripe crosswalks.

Project No. 95 Lexington Road Speed Feedback Signs

- 2027 paving program - mill and overlay.
- Scrape excess sand buildup along shoulders for positive drainage shoulder runoff.
- Install two speed feedback signs on both sides of Lexington Road between Hawthorne Lane and Old Bedford Road. The speed limit varies between 35 and 40 mph and road measured width is mostly 32 feet wide, section from Old Bedford Road to Townline. The pavement markings shall include a double yellow center line and edge lines on both sides. The lane width shall be 11-feet, and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows and “Motorist give 4 FT min clearance to Pass” signs.
- Install bike symbols where shoulder is at least 4 feet wide.

Reference: Concord, MA – Low-Cost Safety Improvements

Project No. 97 Upland Road/Harrington Avenue Intersection Improvements

- 2027 paving program – mill and overlay on Harrington Avenue.
- Install flush island either stamped concrete or cobblestone median splitter island and/or truck aprons or consider temporary speed humps on either side of Upland. (See Project No. 14 & 45)
- Paint double yellow centerline at each approach for 100 feet in each direction.

The speed limit is not posted, there are no sidewalks and the road measured width is 21-23 feet wide. The pavement markings shall include no center line, only edge lines on both sides. The lane width shall be 20-feet, and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows, “Motorist give 4 FT min clearance to Pass”, and 25 mph/MGL provision speed limit signs.

Project No. 100 Old Bedford Road Bicycle Accommodation

- 2026 paving program – mill and overlay.
- The speed limit is 30 mph and road measured width is 26 feet wide, the pavement markings shall include a double yellow center line and edge lines on both sides. The lane width shall be 10.5-feet, and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows and “Motorist give 4 FT min clearance to Pass” signs.

Project No. 102 Powder Mill Road Speed Feedback Signs

- 2027 paving program – mill and overlay.
- Install two speed feedback signs on both sides on Powder Mill Road between Longfellow Road and Plainfield Road.
- The speed limit 20 - 30 mph and road measured width varies, mostly 20 feet wide, with 23 feet wide between Old Pickard and Stone Root, the pavement markings shall include a double yellow center line and no edge lines. Add sharrows and “Motorist give 4 FT min clearance to Pass” signs.
- Scrape excess sand buildup along shoulders for positive drainage shoulder runoff and space for cyclist runaway

Project No. 103 Old Bedford Road Crossing Improvements

- 2026 paving program – mill and overlay.
- Install RRFB (double sided) with Flood lights on Old Bedford Road at the Virginia Road Crossing.
- Replace pedestrian curb ramps with new pedestrian curb ramps (3 ramps). Re-stripe crosswalks for both Old Bedford Road and Virginia Road.

Reference: Concord, MA – Low-Cost Safety Improvements

Project No. 104 Wood Street Signage and Pavement Markings

- 2027 paving program – mill and overlay.
- Install “Do Not Enter” and “7 AM - 9 AM” Plaque entering the north end of Wood Street. Splitter island is not recommended for this short residential street.
- Install “No Left Turn” and “7 AM - 9 AM” Plaque at the south end of Wood Street at the intersection with Main Street.
- The speed limit is 30 mph and road measured width is 24 feet wide, stripe white edge lines with 20 feet between lines to delineate the edge of road.



Project No. 106 River Street Traffic Restriction

- 2027 paving program – mill and overlay.
- Install “Do Not Enter” and “7 AM - 9 AM” Plaque entering the north end of River Street. Splitter island is not recommended for this short residential street.



Project No. 108 Westford Road Speed Feedback Signs

- No paving program assigned.
- Install speed feedback signs on both sides of Spencer Brook Road north of #55 Westford Road.
- The speed limit is 25 mph and road measured width 22 feet wide, the pavement markings shall include a double yellow center line and edge lines on both sides. The lane width shall be 10-feet, and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows and “Motorist give 4 FT min clearance to Pass” signs.

Project No. 111 Orchard Road Traffic Restriction/Calming

- 2025 paving program (carry over) – mill and overlay.
- Install new pedestrian curb ramps and double-sided pedestrian crossing signs.
- Splitter island is not recommended for this narrow street. Trial use of temporary speed humps could be installed if supported by the neighbors.
- Install “Do Not Enter”, “7 AM - 9 AM” and “4 PM - 6 PM” Plaque entering from the north of Orchard Road at Main Street.



Reference: Concord, MA – Low-Cost Safety Improvements

Project No.113 Old Stow Road and Hillside Avenue Intersection Enhancements

- No paving program assigned.
- Install “Stop Sign” at the end of Hillside Avenue.
- Install flush splitter island delineated with pavement markings for turning movements at the south end.

Project No.114 Hawthorne Lane Traffic Restriction/Calming

- 2026 paving program – mill and overlay.
- Install “Do Not Enter” and “4 PM - 6 PM” Plaque entering the south end of Hawthorne Lane.
- Install small splitter island for turning movements at the south end. Trial use of temporary speed humps could be installed if supported by the neighbors.



Project No. 115 Elm Street Bike Lane

- 2025 paving program (carry over) – mill and overlay.
- Concept plans developed (two-way bike lane, 1 way w/buffer and 1 way). Many alternatives to consider piloting, given the wide road widths.
- The speed limit is 30 - 35 mph and road measured width varies between 28-38 feet wide. At a minimum, the pavement markings shall include a double yellow center line and edge lines on both sides. The lane width shall be 11-feet, and the remaining pavement surface shall be equally divided to be used as shoulders. Add sharrows and “Motorist give 4 FT min clearance to Pass” signs.
- Suggest developing marking plans for intersections along this corridor.

Project No.116 MacArthur Road Traffic Restriction/Calming

- 2026 paving program – mill and overlay.
- Install “Do Not Enter” and “7 AM - 9 AM” Plaque entering the south end of MacArthur Road. Splitter island is not recommended for this short residential street. Trial use of temporary speed humps could be installed if supported by the neighbors.



Project No.117 Sudbury Road Speed Feedback Signs

- No paving program assigned.
- Consider speed feedback signs on both sides of Sudbury Road near the Fairhaven Trail Parking.
- Add sharrows and “Motorist give 4 FT min clearance to Pass” signs.

Reference: Concord, MA – Low-Cost Safety Improvements

Project No.120 Nashawtuc Road / Musketaquid Road Traffic Restriction

- 2025 paving program (carry over) – mill and overlay.
- Install “Do Not Enter” and “7 AM - 9 AM” Plaque entering the west end of Musketaquid Road. Splitter island is not recommended for this short residential street.
- The speed limit is not posted, no sidewalks, and the road measured width is 22 feet wide. The pavement markings shall include no center line, only edge lines on both sides. The lane width shall be 20 feet, and the remaining pavement surface shall be equally divided to be used as shoulders. Add 25 mph/MGL provision speed limit sign.



The low-cost improvements described above allow for isolated improvements that can be implemented with either the paving program or can be installed independently to improve safety for all users. These improvements will provide better visibility for motorists, better walking surface for the pedestrians and limited accommodations to reduce bicycle stress levels.

Regards,

**Stantec Consulting Services Inc.**



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