



2022 4th Quarter Maintenance of Way Division

**Track, Structures, Stations and Facilities
Metro-North Railroad**

December 31, 2022



Track Projects Systemwide

▣ Production Tie Replacement – 1,758,250 systemwide wood ties (44,850 ties planned)

▣ Hudson Line	15,210	ties planned	10,552	installed	69%
▣ New Haven	10,000	ties planned	14,849	installed	148%
▣ Port Jervis	10,000	ties planned	9,029	installed	90%
	35,210	ties planned	34,430	installed	98% of goal
▣ Harlem (SmarTrack)	3,400	ties planned	5,114	installed	150%
▣ Hudson (SmarTrack)	5,200	ties planned	0	installed	0%
▣ New Haven (SmarTrack)	1,040	ties planned	543	installed	52%
	9,640	ties planned	5,657	installed	59% of goal
▣ Harlem	998	ties not in scope	998	installed	100%
Total 2022	44,850	ties planned	41,085	installed	92% of goal

* All subject to change due to current events



□ Rail Vac (Wood Ties) – 4,000 ties planned

α	GCT	40	ties installed
α	Hudson	2,013	ties installed
α	Harlem	502	ties installed
α	New Haven	1,182	ties installed
	Total 2022	3,737	ties installed 93% of goal

□ Rail Replacement – 1,508 rail miles systemwide (12.5 miles planned)

α	Hudson Line	0.5	miles planned	1	installed	200%	complete
α	Harlem	6	miles planned	7	installed	119%	complete
α	New Haven	6	miles planned	8	installed	140%	complete
	Total 2022	12.5	miles planned	17	installed	132%	of goal

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□ **Welds (1,500 joints planned)**

□	GCT	23	joints completed
□	Hudson Line	431	joints completed
□	Harlem Line	329	joints completed
□	New Haven	471	joints completed
□	West Of Hudson	42	joints completed
	Total 2022	1,296	joints completed

86% of goal

□ **Switch Renewal - 1,500 Switches systemwide (33 switches planned)**

□	GCT	4	switches planned	4	switches	completed	100%	complete
□	Hudson	5	switches planned	3	switches	completed	60%	complete
□	Harlem	3	switches planned	5	switches	completed	167%	complete
□	New Haven	17	switches planned	9	switches	completed	53%	complete
□	Port Jervis	3	switches planned	3	switches	completed	100%	complete
	Total 2022	32	switches planned	24	switches	completed	75%	of goal

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▣ Grade Crossing Renewal – 111 Grade Crossings systemwide (6 crossings planned)

▣ Harlem Line	3	crossings planned	1	complete	33%
▣ West of Hudson	3	crossings planned	3	complete	100%
Total 2022	6	crossings planned	4	complete	67% of goal

▣ Surfacing - 754 track miles systemwide (100 miles planned)

▣ Hudson Line	23	miles planned	36	completed	
▣ Harlem Line	18	miles planned	15	completed	
▣ New Haven	45	miles planned	46	completed	
▣ Port Jervis	14	miles planned	6	completed	
Total 2022	100	miles planned	103	completed	103% of goal

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- ▣ **Ultrasonic Rail Testing (1,480 miles planned, 2 runs per year per FRA)**
 - ▣ 1,452 miles continuous testing completed (28.0 miles not tested on second run due to long term outages)
 - ▣ Total defects found from testing: 83

- ▣ **Geometry (5 runs completed)**
 - ▣ FRA March 2022 (complete)
 - ▣ ENSCO - TGIS (100% complete) Only one run performed 2022
 - ▣ 3 runs – MOWIC (100% complete)

- ▣ **GCT Terminal Track Rehabilitation (44 Platforms systemwide, 3 Platforms Planned)**
 - ▣ Track 21
 - ▣ 115 bracket ties, 500 block ties (100% complete)
 - ▣ Bumping Post Installation
 - ▣ Track 17 (100% complete)
 - ▣ Track 18 (100% complete)
 - ▣ Track 103
 - ▣ 67 bracket ties, 750 block ties, 1,500' of rail (100% complete)

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□ **Overhead Bridge Program (NY) Bridge Flag Repairs (Harlem, Hudson New Haven-NY/Port Jervis Line)**

- Typical repairs include replacing deteriorated members, rebuilding deteriorated bridge seats, repairing abutment walls, repairing load bearing supports, timber deck replacements.
 - HUD 5.19 East 144th Street - Steel Repairs (100% complete)
 - HUD 12.94 West 254th Street – Bearing Repairs (25% complete)
 - HUD 14.43 Ludlow Street – Pier Repairs (20% complete)
 - HUD 29.40 Station Road – Pier Repairs (10% complete)
 - HUD 38.90 Montrose Station Road – Flag Repairs (50% complete)
 - NH 20.73 Hillside Ave – Flag Repairs (50% complete)
 - NH 20.89 North Barry – Steel Repairs (100% complete)



□ Undergrade Bridge Timbers (NY only – 586 Timbers Planned)

☐	HUD 64.79 Wappingers Creek Trk 1	170	timbers	30% complete
☐	HUD 64.79 Wappingers Creek Trk 2	170	timbers	100% complete
☐	PJ – JS 32.06 Ramapo River Trk 2	106	timbers	100% complete
☐	PJ – JS 39.55 Stream Trk 1	21	timbers	100% complete
☐	PJ – JS 41.14 Stream Trk 1	28	timbers	100% complete
☐	PJ – JS 55.03 Moodna Viaduct Trk 1	60	timbers	50% complete
☐	PJ – SR 73.79 Route 211Trk S	31	timbers	100% complete
	Total 2022	586	Timbers	75% complete

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- ▣ **NY Undergrade Bridge Repair Program**
- ▣ **Hudson**
 - ▣ Grand Central Terminal (MP 1.0) – Track 17 Flag Repairs (10% complete)
 - ▣ Park Ave Tunnel (MP 2.0) – Track C Flag Repairs (100% complete)
 - ▣ Park Avenue Tunnel Leak Remediation – Tracks 1, 2, 3 & 4 (80% complete)
 - ▣ Park Ave Viaduct (MP 3.01) – Masonry Arch Repairs (100% complete)
 - ▣ Park Ave Viaduct (MP 3.42) E111 to E112th Street – Steel Repairs (50% complete)
 - ▣ Park Ave Viaduct (MP 3.8 – MP 4.49) – Phase 1, 25 No. Flag Repairs (90% complete)
 - ▣ Wappinger Falls (MP 64.79) – Flag Repairs (85% complete)
- ▣ **Pott Jervis**
 - ▣ Ramapo River (MP 32.06 JS) – Flag Repairs (100% complete)
 - ▣ Laura Lane (MP 47.73) – Replacement (40% complete)
 - ▣ Woodbury Creek (MP 50.17) – Phase 1, Column Flag Repairs (75% complete)
 - ▣ Shea Road (MP 63.04) – Concrete Repairs (100% complete)
 - ▣ Beacon (MP 30.02) – Bridge Removal (10% Complete)



CT Bridge Projects

▣ Bridge Timbers (CT only – 393 Timbers Planned)

▣	NH 33.41 Canal Street, Trk 2	52	timbers	100% complete
▣	NH 33.75 Elm St. Trk 4	53	timbers	100% complete
▣	NH 40.89 Franklin (Spring Street) Trk 1	43	timbers	100% complete
▣	NH 53.84 Howard Avenue Trk 2	53	timbers	0% complete
▣	NH 56.20 East Main Street Trk 3	56	timbers	0% complete
▣	NH 57.46 Bishop Ave Trk 3	48	timbers	100% complete
▣	NH 57.62 Bruce Ave, Trk 1	29	timbers	100% complete
▣	NH 59.96 East Main Street Trk 3	39	timbers	100% complete
▣	NH 64.59 Gulf Street, Trk 4	20	timbers	100% complete
	Total 2022	393	Timbers Planned	72% complete

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- ▣ **S-Program (CTDOT Bridge Program) – Deferred to 2023 due to lack of funding**
- ▣ Steamboat Road (NH 28.22) – Steel / Masonry Repairs (0% complete)
- ▣ Sound Shore Drive (NH 29.68) – Steel / Masonry Repairs (0% complete)
- ▣ Mill Plain Road (NH 50.29) – Steel / Masonry Repairs (0% complete)
- ▣ Fairfield Creek (NH 51.68) – Masonry Repairs (0% complete)
- ▣ Union Street (NH 55.40) – Steel / Masonry Repairs (0% complete)

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- ▣ **Cos Cob Bridge NH 29.90 (Greenwich, CT)**
- ▣ Steel repairs, Phase 1 (100% complete)
- ▣ **Saga NH 44.32 (Westport, CT)**
- ▣ Fabricated/install steel ties, install expansion and thick web miter rails on Track 1 (100% complete)
- ▣ Fabricated/install steel ties, install expansion and thick web miter rails on Track 3 (100% complete)
- ▣ **Right of Way Fence**
- ▣ Install/repair 500' ft of fence throughout systemwide (100% complete)
- ▣ CP 271 to CP 272 Security Fencing – Tracks 4, 5 (100% complete)
- ▣ **Graffiti Removal Program**
- ▣ Hudson & Harlem - cleaned graffiti off various buildings, bridges, retaining walls & rock cuts (100% complete)

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- ▣ **Right of Way Improvements**
 - ▣ Mount Vernon West Yard Cleanup & Grading (100% complete)
 - ▣ Harmon Yard Track Compound Paving (100% complete)
 - ▣ North White Plains Work Equipment Area Paving (60% complete)
 - ▣ CP 235 Staircase for CIL Access (100% complete)
 - ▣ Hudson / Harlem Line Transmission Pole Repairs – 15 No. (35% complete)
 - ▣ Remove Catenary Poles on Danbury Line (90% complete)

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