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US 16 CatchNET system retrofitting underway

ted in 2021, and the one on US 16 originally constructed in 2003 with an additional net added in 2012.

The CatchNET on US 16 has been used successfully 12 times since being constructed. The Teton Pass CatchNET had been used five times prior to its retrofit in 2021 and has been used successfully twice since. Both CatchNET systems have performed as designed in the past.

Since originally constructed, the designer and manufacturer, Beason and Brackin, has made some advancements in the cable system design and has determined a retrofit would enhance the system and would increase safety to the traveling public. The new nets have more stopping capacity and will accommodate more rotation. The location of the first net will remain the same as previously designed. Nets two through seven will be spaced 120 feet apart, 80 feet from the first net. This spacing will accommodate the full length of the energy absorbing tape.

S&S Builder's subcontractor, Beartooth Water, is using a robotic high pressure water blasting technique to remove portions of the concrete walls in preparation for creating pockets for the new canister system housing. The new tapes will be tucked into the wall, eliminating the chance of the canisters being sheared off the wall when a vehicle enters it. This will also reduce the chance of tapes tearing. In addition, larger jumbo nets will be installed and will accommodate various sizes of vehicles and eliminate the net from rolling under the vehicle bumper.

Work began the week of May 29 and is scheduled to be complete by Sept. 30, 2023.



A glance at a portion of the runaway truck ramp inside wall with the original concrete removed, exposing the rebar that will be modified to accommodate the new pocket system as part of the retrofitting operation.

Photo: Laura Dalles/WYDOT



Photo: Laura Dalles/WYDOT

Clockwise from top left: Motorists heading east down the mountain on US 16 will see the entrance to the truck arrestor CatchNET system. It is currently closed to traffic; The housing for the new CatchNET system tapes will look similar to that of the new system installed recently on WYO 22, Teton Pass; Beartooth Water is using a robotic arm which forces high pressure water – much like a power washer, to break out the existing concrete, exposing the rebar and making room for the new system; and Gate 6 of the old system showing the slits in the structure where the original tapes were located.

Safety upgrade for runaway truck ramp

By Laura Dalles, District 4 Public Involvement Specialist

A \$1.4 million contract was awarded to S&S Builders, of Cheyenne, to retrofit the truck arrestor CatchNET system 3.2 miles west of Buffalo.

The runaway truck system located at milepost 85.36 on US 16 west of Buffalo, was originally constructed in 2003 and opened to the traveling public in 2004.

Truck arrestors are typically installed on mountain passes or highway routes with a steep grade of 6 percent or more and are

an alternative to the traditional runaway truck ramp that takes the vehicle uphill in heavy sand. The arrestor system is a safer alternative, as the vehicle does not cross traffic and stays within a confined area with control points.

A truck arrestor cable system is a series of eight to 10 cable nets that span across a long, narrow ramp adjacent to the highway used to stop runaway vehicles. When a runaway vehicle enters the ramp, the arrestor's system of cables and energy absorbing nets catch the vehicle, expanding to absorb the speed and force of the vehicle with the intent of stopping the out-of-control vehicle.

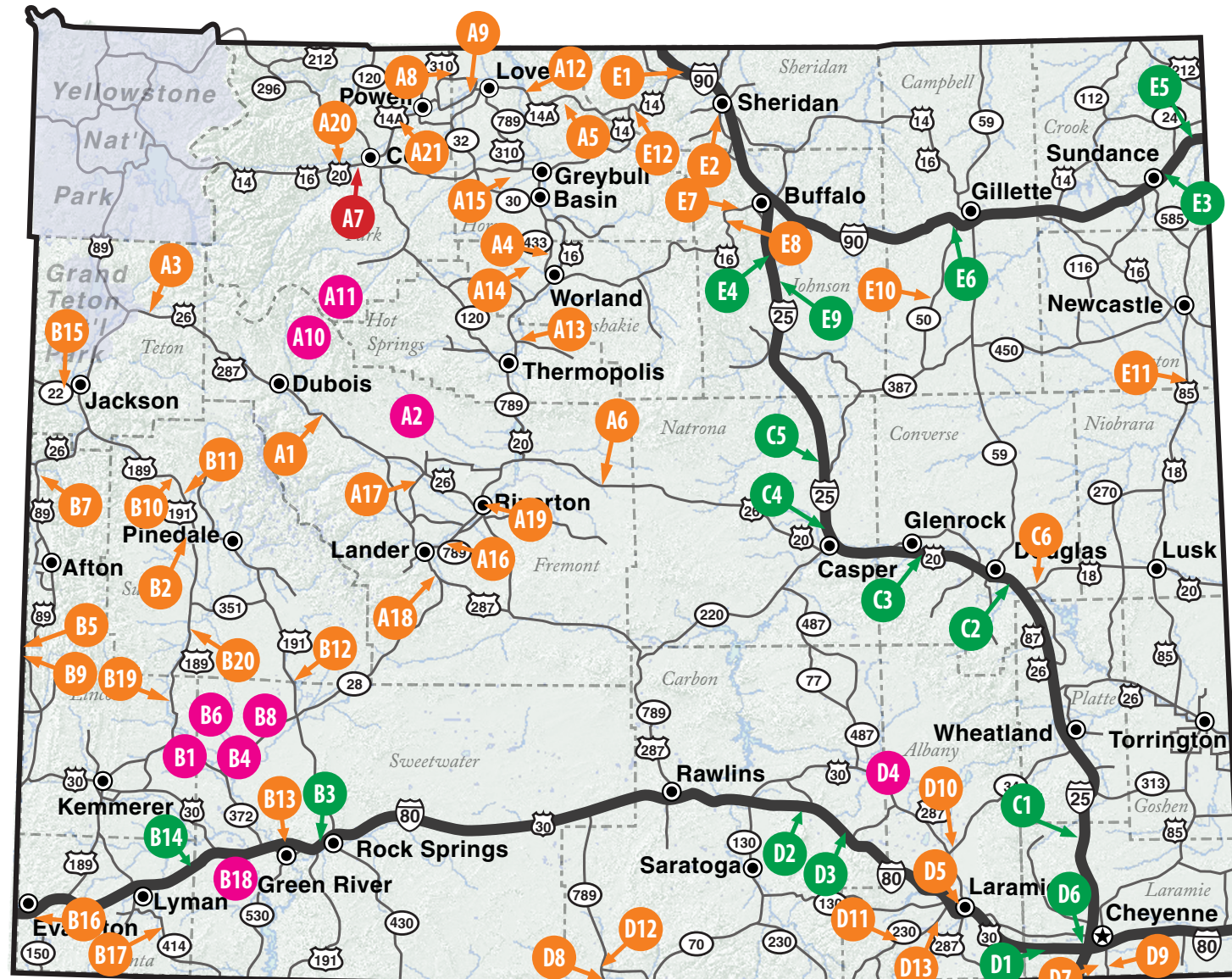
There are two CatchNET systems in Wyoming; one located on Wyoming Highway 22/Teton Pass, installed in 2015 and retrofit-

Legend

- I** **Interstate highway work zones:** Generally, there are no delays or detours. Travel may be narrowed to one lane (on pavement) each way and involve a reduced speed limit.
 - P** **Two-lane road projects:** Motorists may be required to stop and wait to follow pilot cars. Usually, any delays are limited to 20 minutes or less and travel is on pavement.
 - R** **Two-lane road projects:** At times, motorists may have to drive on gravel or another temporary surface, typically for two miles or less. Delays are limited, there are no detours unless specifically noted but there may be a pilot car.
 - D** **District-wide projects:** Various locations, may involve reduced speeds.
- Not every project is listed*
Due to the unpredictable nature of the construction process, not all projects are active all the time. In addition, some short-term projects and smaller projects which disrupt traffic to a lesser degree are not listed. Completion dates are approximate.
- Commercial vehicle operators:* In work zones, size and weight restrictions may apply. Ask for details at any Wyoming port of entry or call (307) 777-4376. Current restrictions are also available on the internet at www.wyroad.info/highway/restrictions.html.

Northwest Wyoming - A

- A1** US 26/287 Dubois-Diversion Dam, Crowheart Section. Asphalt milling, overlay, chip seal. MM 72.13-85.03.
- A2** District 5 bridge rehab. Grading, milling, pavement, bridge rehab, guardrail work. Locations: WYO 789 MM 90.59; WYO 120 MM 100.53. Delays expected.
- A3** US 26/287 Moran Junction-Dubois. Buffalo Fork Section. Asphalt milling, overlay, chip seal, bridge rehab over Buffalo Fork of the Snake River. MM 2.2-7.53. Portable traffic signal. Delays expected.
- A4** WYO 433 Worland-Manderson. Bridge replacements, reconstruction of roadway north of Worland. Demolition/reconstruction of 3 bridges, grading, asphalt pavement surfacing, fencing, chip sealing. MM 4.14-5.50. Delays expected.
- A5** US 14A Lovell-Burgess Junction, Lovell East Section. Pavement leveling, paving, chip sealing and guardrail. MM 46.71-55.42. Delays expected.
- A6** US 20/26 between Shoshoni and Casper, passing lane overlay. Asphalt paving, chip seal, traffic control and other work on seven sets of passing lanes. Includes work at the Waltman Rest Area.
- A7** US 14/16/20 Cody-Yellowstone tunnel light replacement project. Removal/replacement of tunnel lighting system, installation of tunnel warning system. MM 45 to 1 mile east. Project work at night. Delays expected.
- A8** US 310/WYO 789 Deaver-Montana State Line, Frannie Section. Pavement milling, overlay and chip seal. MM 249.49- 257.03. Delays expected.
- A9** US 14A Garland-Byron. Sidon Canal Section. Pavement milling, overlay and chip sealing. MM 33.76-38. Delays expected.
- A10** District 5 culvert lining project. Various locations on WYO 30 and US 20/WYO 789. Delays expected.
- A11** District 5 guardrail project. Guardrail replacement. US 16 MM 34-35.5. Delays expected.
- A12** Lovell-Burgess Junction warning system, US 14A. Electrical and signing. Replacement of blank-out sign, MM 68.5. Delays expected.
- A13** Thermopolis-Worland slope flattening project, US 20/WYO 789. Grading, drainage, asphalt pavement surfacing and other work. MM 141.78-145.51. Delays expected.
- A14** Cottonwood Creek BROS bridge replacement project. Washakie CR 86. Removal, placement of bridge structure, asphalt paving, grading.
- A15** Big Horn County Rd. 16 1/2, Georgia-Pacific Rd.. Asphalt paving and milling, grading, lining of existing pipes.
- A16** Lander-Hudson, State School Section, WYO 789, MM 80.97-82.40. Asphalt paving, sidewalk, curb/gutter, milling, wearing course.
- A17** Ethete-Kinnear, Johnstown Section, WYO 132, MM 15.19-17.39. Asphalt paving, milling, chip seal.
- A18** Muddy Gap-Lander, Lyons Valley Section, US 287/ WYO 789, MM 80.16-81.03, MM 73.97-79.10. Asphalt milling/paving, bridge rehab, chip sealing, sidewalk curb/gutter.
- A19** Riverton Streets, Little Wind River Pedestrian Bridge, WYO 789, MM 102.93, installing river barbs upstream of pedestrian bridge.
- A20** Cody-Yellowstone, Buffalo Bill Section, US 14/16/20, MM 36.41 (Trout Creek) to 41.69 (Buffalo Bill State Park campground/boat launch). Settlement repair – four locations, milling, overlay, chip sealing, slope flattening; reclamation and cleanup follows.
- A21** Badger Basin Section, WYO 294, MM 0 (intersection WYO 294/US 14A) to 9.84 northwest. Asphalt pavement overlay, chip sealing, minor slope flattening, guardrail repairs.



Southwest Wyoming - B

- B1** Crack seal in various locations: Lincoln, Sublette, Sweetwater Counties. Bituminous surfacing, traffic control and other work.
- B2** Daniel Jct. Dynamic Messaging Sign project.
- B3** Rock Springs/I-80 Interchange Rd. Replace/reconstruct interchange – 0.81 miles.
- B4** Contract patch in various locations: Lincoln, Uinta, Sweetwater Counties. Bituminous surfacing, milling, traffic control and other work.
- B5** WYO 89/Idaho border. MM 45-55. Box culvert install, guardrail, cold in-place recycling, paving, chip seal. One-lane traffic, portable signals/multiple sites 24/7. 12 ft. width restriction.
- B6** Chip seal in various locations: Sublette, Sweetwater Counties. Bituminous surfacing, chip seal, traffic control and other work.
- B7** US 89 (MM 108.13)/Etna North: grading, draining, crushed base, bituminous surfacing, full-depth reclamation – 9.30 miles.
- B8** Epoxy striping in various locations: Sweetwater, Sublette, Teton Counties. Striping, traffic control and other work.
- B9** Idaho-Smoot (Smoot South). Bituminous surfacing (recycle), traffic control, milling, chip seal on 7.10 miles of US 89 at MM 65.02 between Idaho and Smoot.
- B10** Daniel Jct.-Bondurant Rd. (US 189/191) Fencing, grading, traffic control on 5.10 miles of US 189/191 at MM 131.28 between Daniel Jct. and Bondurant Rd..
- B11** Daniel Jct.-Hoback Jct. (40 Rod Flats Section) Bituminous surfacing (recycle), traffic control, fencing, milling, chip seal, bridge deck repair on 8.80 miles of US 189/191 at MM 111.27 between Daniel Jct. and Hoback Jct.
- B12** Farson-Pinedale (County Line North) Bituminous surfacing (recycle), traffic control, milling, chip seal on 10.00 miles of US 191 at MM 51.62 between Farson and Pinedale.
- B13** Green River Streets WYO 530 through Green River. Electrical, sidewalk, curb/gutter, signing, surfacing (concrete), traffic control, grading, striping at various intersections in the town of Green River.
- B14** Lyman-Green River (Little America/I-80) Bituminous surfacing, milling, plant mix wearing course, traffic control on 11.90 miles in the EBL and WBL of I-80 at MM 65.44 between Lyman and Green River.
- B15** Jackson-Wilson Rd. (Snake River Bridge) Bridge replacement, grading, traffic control, surfacing, bituminous and concrete surfacing, fencing on 1.80 miles on WYO 22, WYO 390 between Jackson and Wilson Rd.
- B16** Evanston-Lyman (WYO 150) Electrical, surfacing (concrete), sidewalk, curb/gutter, traffic control, grading, striping at the interchange of I-80 and (Front Street) WYO 150 in the town of Evanston.
- B17** Mountain View-Lonetree (WYO 414) Bituminous surfacing, traffic control, guardrail, grading, milling on 9.40 miles on WYO 414 at MM 110.63 between Mountain View and Lonetree.
- B18** WYO 150 (MM 2.46), WYO 372 (MM 17)/ WYO 28 Jct. south. Sweetwater, Uinta Counties. Hot in-place recycling, resurfacing, bridge rehab, traffic control, chip seal, guardrail on 19.90 miles.
- B19** US 189-LaBarge/Big Piney Rd.. Grading, milling, crushed base, resurfacing, box culverts, cattle guards, guardrail, fencing, on 19.0 miles. Rd.-1.9 miles, fencing-14.9 miles, signing-2.2 miles (MM 86).
- B20** Big Piney Cutoff Erosion Repair.

Northeast Wyoming - E

- E1** US 14 Ranchester bridge. Replace structure over railroad tracks. Open to traffic with occasional traffic control.
- E2** US 87/Downtown Sheridan Main Street. Resurfacing and utility upgrade. Closed from Dow Street to Grinnell Street.
- E3** I-90 Sundance marginal. MM 187-192. Crack and seat with bridge repair. Head to head traffic in the WB lane. EB lane closed.
- E4** I-25 Buffalo south to the district boundary. MM 272-279. Mill and Overlay. SB lane closed. Head to head traffic in NB lane.
- E5** I-90 South Dakota State Line. MM 201-207. Crack and Seat with bridge repair. Westbound lane Closed. Head to head traffic in the eastbound lane.
- E6** I-90 Wild Horse section. MM 112-118. Mill and overlay with bridge repairs. Lane closures with traffic control.
- E7** US 16 Buffalo West. MM 63-69. Mill and overlay with chip seal. Reduced speed limits and traffic control. Mid/late July start.
- E8** US 16 Truck Arrestor/CatchNET system. MM 85.40. CLOSED for reconstruction.
- E9** I-25 Buffalo South. MM 282-278. Wearing course application. Reduced speed limit, lane closures with traffic control.
- E10** WYO 50 Gillette south to Pine Tree Junction. MM 36-52. Mill/overlay. Reduced speed, traffic control.
- E11** US 85 Newcastle South to Mule Creek Junction. MM 195-202. Mill and overlay. Reduced speed, traffic control.
- E12** US 14 west MM 69.80 near Steamboat Point. Slide repair. Expected start mid-July. One lane of traffic, 24 hour traffic signal. Expected wait up to five minutes.

Central Wyoming - C

- C1** I-25: Three bridge rehabilitation projects at MM 33, 45 and 46 in Laramie County.
- C2** I-25 Bridge, surface rehabilitation between MM 138-142, NB and SB lanes.
- C3** I-25: Surface, bridge rehabilitation. Fencing and other work in NB lanes between MM 160-175.
- C4** I-25: Five bridge replacements. Surfacing and other work between MM 189-190. Affects both NB and SB lanes.
- C5** I-25: Surfacing and bridge rehabilitation between MM 219-227 in the Midwest area.
- C6** US 18/20. Surfacing and chip seal between MM 0-17 (Orin Junction east).

Southeast Wyoming - D

- D1** I-80 between Laramie, Cheyenne. MM 324-331. Milling, paving and bridge rehabilitation in EB/WB lanes.
- D2** I-80/Halleck Ridge. MM 245-252. Milling, paving, bridge and guardrail work in EB/WB lanes. Lane closures, reduced speeds.
- D3** I-80/Arlington. Milling, paving and bridge work. Lane closures, reduced speeds.
- D4** District-wide crack seal project. Contractor is intermittently working in southeast Wyoming.
- D5** Curtis Street bridge replacement – Laramie.
- D6** Cheyenne Marginal – I-80 Roundtop Rd. bridges under construction.
- D7** Terry Ranch Rd./US 85. Milling, paving on US 85 between College Drive (US 85) and Terry Ranch Rd..
- D8** Baggs to CO state line, milling/paving, structure repair. Lane closures, reduced speeds.
- D9** Chalk Bluffs Rd. safety project. Install of a SB (US 85) left turn lane to EB Chalk Bluffs Rd. Grading to widen US 85, milling and hot plant mix overlay, striping.
- D10** US 30/WYO 34 Junction east. MM 0-9.7. asphalt overlay, seal coating. Begins in June.
- D11** WYO 230; Lake Hattie Section. MM 2.4-11.5. Chip seal in June, continuation from last year's project. Scheduled to be completed in 5 days.
- D12** WYO 789/WYO 70; Town of Baggs. WYO 789 MM 50-53/ WYO 70 MM 0-0.9. Mill, overlay, seal coat and structure work. Work begins in June.
- D13** WYO 230; Chip seal project. MM 2.5-11.5.

