

**Environmental Monitor Construction Site Inspection Report
MassDOT Project #608164 Construction Contract # 119678
EM Report #13**

Project Description: Bruce Freeman Rail Trail Right-of-Way
Permit Description(s): Order of Conditions (MGL Chapter 131, Section 40 and 310 CMR 10.00, Mass DEP File No. 301-1362); 2022 EPA NPDES General Permit for Discharges from Construction Areas; U.S. Army Corps of Engineers Permit No NAE-2021-01975.

I. General Project Information

Project Name:	Bruce Freeman Rail Trail - Phase 2d - Sudbury
Date of Inspections:	7/22/2024
Bi Weekly/ Monthly Period Covered:	July Weekly Inspection #3
Inspector's Name(s):	Anna Haznar
Inspectors' Contact Information:	ahaznar@beta-inc.com

II. Weather Information

	Inspection #1	Inspection #2	Inspection #3	Inspection #4	Inspection #5
WeatherUnderground	Inspector: Anna Haznar	Inspector: Jonathan Niro	Inspector: Anna Haznar	Inspector:	Inspector:
Type of Inspection (i.e. non-storm event, pre-storm event, during-storm event or post-storm event):	Post-storm event	Post-storm event	Non-storm event		
Number of days since last rain event greater than .25"	3	2			
Has there been a storm event since the last inspection?	Yes	Yes	No		
If yes, please provide storm start date, storm duration, and approx amount of precipitation:					
Storm 1:	June 27th (8 hours 2.06")	July 13th (8 hours 0.40")			
Storm 2:	July 5th (2 hours 0.36")				
Storm 3:					
Storm 4:					
Weather at the time of inspection (i.e. clear, overcast, cloudy, rain, sleet, fog, snow, windy):	Clear	Clear	Clear		
Temperature:	88	86	84		
Unusual Conditions (drought, severe storm):					
Have any discharges occurred since the last inspection report?	No	No	Yes		
If yes, please describe:			Sediment was observed within the streambed east of the path between Stations 215+00 and Station 217+00.		

Note: Inspections should only be conducted on days during work hours while RE or ARE is onsite. The EM should contact the RE to address any immediate corrective actions.

III. General Description of Construction Status

7/8/2024 - At the time of the Site visit, construction crews were continuing with utility work and landscaping efforts.

7/15/2024 - At the time of the inspection, utility work was occurring at the Hudson Road intersection, and paving efforts were ongoing north of the Morse Road intersection. Due to the paving work, BETA could not inspect the portions of the site north of approximately Station 238+00.

7/22/2024- At the time of the inspection, utility work was ongoing at the Hudson Road interstion, and crushed stone was being laid and compacted on either side of the path.

IV. Status of Existing BMPs

Control Measure (These are examples; list measures specific to the project)	Cleaning or Repair Needed (yes no n/a)	Comments/Recommendations from the EM
Perimeter Controls	Yes	Perimeter erosion and sedimentation control measures were installed at the commencement of the Project and are in varying conditions across the Site; however, they were generally observed to be degraded. While areas upgradient of degraded controls are temporarily stabilized at some locations, several discharges of sediment beyond the limits of work were observed including at Station 105+00 to 106+00, Stations 215+00 to Station 217+00, Station 221+50, Station 222+00 to 241+00, Station 292+00 to 294+50, and Station 313+00 to 316+00. It is recommended that the contractor repair erosion and sedimentation control measures where breaches are occurring and where stabilization has not been achieved. Areas where stabilization has commenced should be monitored for germination, as replacement of erosion controls may not be required if stabilization is achieved. Perimeter controls were generally in degraded condition along culverts, streams, and cattle crossings. New perimeter controls were added on 6/27/2024 at Stations 310+00 through 311+00 as requested.
Inlet Protection Measures	Yes	Catch basins in the vicinity of active work at the Hudson Road intersection require the installation of inlet protection.
Stabilized Construction Entrances	No	
Stockpile Protections	No	
Dust Control	No	
Street Sweeping	No	
Dewatering Controls	No	
Construction Equipment and Material Storage	No	
Construction and Domestic Waste Storage and Collection	No	
Location of Sanitary Waste Facilities	No	
Washout Areas	No	
Fertilizers, Herbicides, and Landscape Material	N/A	
Stabilization of Exposed Soil	Yes	Varying degrees of stabilization are present within areas that were constructed/graded as part of the Project. Stabilization efforts are required at Station 201+50 to 204+00, Station 221+50, Station 225+50, Station 222+00 to 241+00, Station 247+00, Station 265+50 to 273+00, Station 310+00, and Stations 313+00 to 316+00. Stabilization has commenced via application of hydroseed at the majority of these locations and should be monitored for successful establishment.
Overall Adherence to Environmental Permits	Yes	As noted in Action Items 41 and 42, it appears that work has been conducted beyond the limits of work approved under the Order of Conditions. These areas will require coordination amongst the Project Team to confirm if any restoration is required.

Note: Use station numbers, wetland ID or other means to determine locations of BMP's that need repairs.

V. Compliance Table - Compliance Action Items

V. 1. Compliance Action Items Observed During the One Month Reporting Period Ending [June 30, 2024].

Current Open and Closed Compliance Action Items Observed During the Reporting Period Ending [June 30, 2024]. For those items within the most current two week period, color the Item in blue, as shown on lines 48-50 as an example. RED text indicates that the item is outstanding. Once item is resolved, place resolution date in 'Recommended Resolution/Resolution Date' column, convert to BLACK text, and move to the bottom of the Action Item list. Place resolution date on TOP of resolution action. Each Compliance Action Item is assigned a unique number only to be used to reference that item for the duration of the project. Separate but related Action Items will be labeled in an "Item Number-1 and Item Number-2" manner or similar. Completed action items can be removed once they have appeared in the Bi-Weekly Report to MassDEP

"Urgent" - Needs to be completed immediately, "High" - Needs to be completed in < 7 days due to site conditions, proximity to resource areas, anticipated weather, etc., "Medium" - Needs to be completed within 7 days and has short-term potential to impact resource areas, "Low" - Needs to be completed within 7 days with minimal potential to impact resource areas

Item	Location/ Description	Observation Date	Resolution Due Date	Recommended Resolution / Resolution Date	Comments/Updates
50	Catch basin requiring inlet protection at the Hudson Road intersection Priority: Medium	7/15/2024	7/22/2024	Install inlet protection within the catch basin.	7/22/2024 - Observation remains.
43	Overtopped compost filter tubes and exposed soils beyond the limits of work at Station 105+00 Priority: High	6/7/2024	6/14/2024	Stabilize the area with the approved seed mixture and provide interim stabilization such as straw mulch.	6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - Observation remains. 7/8/2024 - Observation remains. 7/15/2024 - Observation remains. 7/22/2024 - Observation remains.
44	Slopes require stabilization / additional seed due to lack of compost filter tubes at 105+00 and 106+00 Priority: High	6/7/2024	6/14/2024	Stabilize the slope with the approved seed mixture and provide interim stabilization such as straw mulch.	6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - Observation remains. 7/8/2024 - Observation remains. 7/15/2024 - Observation remains. 7/22/2024 - Observation remains.
45	Erosion observed along east side of trail at Station 225+50 Priority: Medium	6/7/2024	6/14/2024	Stabilize the slope with the approved seed mixture and provide interim stabilization such as straw mulch.	6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - Vegetation has become established; however, migrated material requires removal. 7/8/2024 - Observation remains. 7/15/2024 - Observation remains. 7/22/2024 - Observation remains.

47	Slope stabilization required due to condition of compost filter tubes at Station 265+50 and 273+00 Priority: High	6/7/2024	6/14/2024	Stabilize the slope with the approved seed mixture and provide interim stabilization such as straw mulch.	6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - Observation remains. 7/8/2024 - Observation remains. 7/15/2024 - This area could not be assessed due to paving operations ongoing during the inspection. 7/22/2024 - Observation remains.
34	Sediment is eroding downhill from behind the cemented stone masonry wall at Station 217+45 Priority: Low	5/28/2024	6/4/2024	Apply seed and temporarily stabilize the soils along the slope with straw, jute netting, etc.	5/31/2024 - Observation remains. 6/7/2024 - Observation remains. 6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - Rills were raked, loam was added, and hydroseed was applied. 7/8/2024 - Observation remains. Grass was observed to be germinating at this location. Comment will remain open until stabilization is complete. 7/8/2024 - See previous update. 7/15/2024 - Additional hydroseed is required due to washouts. 7/22/2024 - Observation remains.
32	Soil and organic debris has been placed within the wetland between wetland flagging WF#23-119 and WF#23-118 at Station 224+00 Priority: High	5/21/2024	5/28/2024	Remove all material and provide stabilization of the area with the approved wetland seed mixture. Straw should also be placed for interim stabilization.	5/28/2024 - Observation remains. 5/31/2024 - Observation remains. 6/7/2024 - Observation remains. 6/14/2024 - Observation remains. 6/17/2024 - This area has been hydroseeded multiple times, but the debris should also be removed from the downgradient wetland. 6/24/2024 - Observation remains. 6/27/2024 - Observation remains. The area was hydroseeded again. 7/8/2024 - Germination was observed and the area will be monitored for stabilization. 7/15/2024 - See previous update. 7/22/2024 - Observation remains.
6	Exposed sediment slope at Station 172+00 to 175+00 Priority: High	5/8/2024	5/15/2024	Install temporary sediment controls along the slope such as jute netting and/or straw following the application of seed.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Partial germination was observed. 5/31/2024 - See previous update. 6/7/2024 - Further earthwork has occurred and soils require stabilization. 6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - The area has been regraded and loam has been spread. New trees have been planted upgradient of the swale. Stabilization is still required. 7/8/2024 - Jute netting has been installed over the applied seed, and the area will be monitored for germination. 7/15/2024 - See previous update. 7/22/2024 - Observation remains.

14	Sediment-laden runoff is being discharged into a stream from the new parking lot at Station 216+50 Priority: High	5/8/2024	5/15/2024	Replace compost filter tubes around the stream and develop a method of redirecting runoff from the parking lot at the source.	<p>5/16/2024 - New compost filter tubes have been installed but were observed to be undermined. In addition, a new earthen slope was observed to be constructed in this area and requires stabilization.</p> <p>5/21/2024 - No turbidity was observed due to no rain preceding this inspection. However, additional erosion controls should be explored at this location to prevent future discharges.</p> <p>5/28/2024 - Untreated runoff being discharged from the parking area has not been addressed, and work is occurring along the stream beyond the compost filter tubes.</p> <p>5/31/2024 - Observation remains.</p> <p>6/7/2024 - Observation remains.</p> <p>6/14/2024 - Observation remains.</p> <p>6/17/2024 - Observation remains.</p> <p>6/24/2024 - Observation remains.</p> <p>6/27/2024 - Observation remains.</p> <p>7/8/2024 - Observation remains.</p> <p>7/15/2024 - See previous update.</p> <p>7/22/2024 - Observation remains.</p>
17	Sediment migration beyond the limits of work at Stations 236+00 to 238+00 Priority: High	5/8/2024	5/15/2024	Remove accumulated sediment from areas beyond the limits of work and replace compost filter tubes. Once any grading work is completed, apply seed to the slope and stabilize it with jute netting, straw, etc.	<p>5/16/2024 - Observation remains.</p> <p>5/21/2024 - Observation remains.</p> <p>5/28/2024 - Hydroseed has been applied; however, accumulated sediment beyond the limits of work requires removal.</p> <p>5/31/2024 - Observation remains.</p> <p>6/7/2024 - Application of seed is required for stabilization.</p> <p>6/14/2024 - Observation remains.</p> <p>6/17/2024 - Observation remains.</p> <p>6/24/2024 - Observation remains.</p> <p>6/27/2024 - This area has been hydroseeded and germination was observed.</p> <p>7/8/2024 - Germination was observed and the area will be monitored for stabilization.</p> <p>7/15/2024 - See previous update.</p> <p>7/22/2024 - Observation remains.</p>
18	Sediment migration beyond the limits of work at Stations 238+00 to 241+00 Priority: Medium	5/8/2024	5/15/2024	Stabilize steep slopes with jute netting or compost filter tubes to prevent additional land movement and erosion.	<p>5/16/2024 - Observation remains.</p> <p>5/21/2024 - Observation remains.</p> <p>5/28/2024 - Hydroseed has been applied; however, accumulated sediment beyond the limits of work requires removal.</p> <p>5/31/2024 - Observation remains.</p> <p>6/7/2024 - Application of seed is required for stabilization.</p> <p>6/14/2024 - Observation remains.</p> <p>6/17/2024 - Observation remains.</p> <p>6/24/2024 - Observation remains.</p> <p>6/27/2024 - This area has been hydroseeded and germination was observed.</p> <p>7/8/2024 - Germination was observed and the area will be monitored for stabilization.</p> <p>7/15/2024 - This area could not be assessed due to paving operations ongoing during the inspection.</p> <p>7/22/2024 - Observation remains.</p>
23	Sediment has accumulated within the cattle crossing at Station 258+00 and is migrating towards adjacent wetlands Priority: High	5/8/2024	5/15/2024	Remove all accumulated sediment and address the sediment release at the source through additional erosion controls and stabilization measures.	<p>5/16/2024 - Observation remains.</p> <p>5/21/2024 - Partial sediment removal has been completed. It appears that this accumulation of sediment may be occurring due to offsite inputs and may require coordination with MassDOT.</p> <p>5/28/2024 - Observation remains.</p> <p>5/31/2024 - Observation remains.</p> <p>6/7/2024 - Observation remains.</p> <p>6/14/2024 - Observation remains.</p> <p>6/17/2024 - Observation remains.</p> <p>6/24/2024 - Observation remains.</p> <p>6/27/2024 - Observation remains.</p> <p>7/8/2024 - Observation remains.</p> <p>7/15/2024 - This area could not be assessed due to paving operations ongoing during the inspection.</p> <p>7/22/2024 - Observation remains.</p>

26	Erosion and migration of gravel into a stream observed along the east side of the trail at Stations 292+00 to 294+50 Priority: High	5/8/2024	5/15/2024	Add or replace erosion controls and remove the gravel eroding into wetlands and streams. Replace gravel and/or supplement with larger stone.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. Recently placed loam should be stabilized to prevent sediment-laden runoff from discharging to the stream. 5/28/2024 - Observation remains. 5/31/2024 - Observation remains. 6/7/2024 - Observation remains. Soils require stabilization and erosion was observed up to Station 299+00. 6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - Observation remains. 7/8/2024 - Observation remains. 7/15/2024 - This area could not be assessed due to paving operations ongoing during the inspection. 7/22/2024 - Observation remains.
27	Material washout was observed along the west side of the trail from Stations 313+00 to 316+00 Priority: High	5/8/2024	5/15/2024	Provide supplemental erosion controls and stabilize the slope.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Observation remains. 5/31/2024 - No further sediment migration was observed. Additional stabilization measures have not been installed. 6/7/2024 - Observation remains. 6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - This area has been hydroseeded. 7/8/2024 - Observation remains. 7/15/2024 - This area could not be assessed due to paving operations ongoing during the inspection. 7/22/2024 - Observation remains.
36	Concrete pile improperly disposed of at Station 243+00 Priority: Low	5/28/2024	6/4/2024	Resolved 7/22/2024 Remove concrete pile from the area.	5/31/2024 - Observation remains. 6/7/2024 - Concrete has been removed. 6/14/2024 - Concrete needs to be removed from site once again. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - Observation remains. 7/8/2024 - Observation remains. 7/15/2024 - This area could not be assessed due to paving operations ongoing during the inspection. 7/22/2024 - Concrete was removed.
5	Turbid water in swale at Stations 167+00 through 172+00 Priority: High	5/8/2024	5/15/2024	Resolved 7/15/2024 Stabilize all contributing areas to the swale and implement stabilization measures over exposed soils within the swale itself once water recedes. It is recommended that the contractor coordinate with MassDOT on stabilization within the swale, which may require jute netting and seed.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - Good water quality was observed; however, no stabilization measures have been implemented. 5/31/2024 - Good water quality was present; however, no additional stabilization measures have been installed. 6/7/2024 - Observation remains. 6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Construction and regrading of the swale is underway. 6/27/2024 - The area has been regraded and loamed. New trees have been planted upland of the swale. Stabilization still required. 7/8/2024 - Observation remains. 7/15/2024 - Upgradient areas have been sufficiently revegetated.

15	Sediment migration off of the trail and into wetlands at Station 221+50 Priority: High	5/8/2024	5/15/2024	Resolved 7/15/2024 Replace damaged compost filter tubes and remove accumulated sediment from areas beyond the limits of work. Once any grading work is completed, apply seed to the slope and stabilize it with jute netting, straw, etc.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - The area has been hydroseeded. 5/31/2024 - No additional sediment migration was observed. See previous update. 6/7/2024 - Hydroseed is present but sediment beyond the compost filter tubes requires removal. 6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - This area has been hydroseeded again. 7/8/2024 - Germination was observed and the area will be monitored for stabilization. 7/15/2024 - Vegetation has become established and sediment deposition is no longer discernable.
16	Sediment migration beyond the limits of work at Stations 231+00 to 232+00 Priority: Medium	5/8/2024	5/15/2024	Resolved 7/15/2024 Remove accumulated sediment from areas beyond the limits of work and replace compost filter tubes. Once any grading work is completed, apply seed to the slope and stabilize it with jute netting, straw, etc.	5/16/2024 - Observation remains. 5/21/2024 - Observation remains. 5/28/2024 - The area has been hydroseeded and additional sediment has not migrated since the last observation. 5/31/2024 - Observation remains. 6/7/2024 - Hydroseed is present but sediment beyond the compost filter tubes requires removal. 6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - This area was hydroseeded and germination was observed. 7/8/2024 - Germination continues and the area will be monitored for stabilization. The contractor should confirm that all soils over the compost filter tubes are confined to the limits of work. 7/15/2024 - Vegetation has become established and sediment deposition is no longer discernable.
33	Sediment is eroding downhill and offsite at Station 222+00 through Station 236+00 Priority: High	5/21/2024	5/28/2024	Resolved 7/15/2024 Remove rill erosion and remove over washed material from outside limit of work.	5/28/2024 - Hydroseed has been applied and germination was observed. No new erosion was observed. 5/31/2024 - Observation remains. 6/7/2024 - Observation remains. In addition, seed is required on the west side of the trail. 6/14/2024 - Observation remains. 6/17/2024 - Observation remains. 6/24/2024 - Observation remains. 6/27/2024 - Germination of hydroseed was observed and the area will continue to be monitored for stabilization. 7/8/2024 - See previous update. 7/15/2024 - Vegetation has become established and sediment deposition is no longer discernable.
48	Multiple concrete piles left around parking lot rest stop near Station 216+00 Priority: Medium	6/14/2024	6/21/2024	Resolved 7/8/2024 Remove concrete piles from site and dispose of properly.	6/17/2024 - Observation remains. 6/24/2024 - Some of the concrete piles have been removed. One pile of the three in this area remain. 6/27/2024 - Concrete pile still remains. 7/8/2024 - Concrete piles have been removed.

V.2. On Going (Longer-Term) Compliance Items

Typically, these items require coordination with MassDEP. If so, remove once approval is obtained from MassDEP

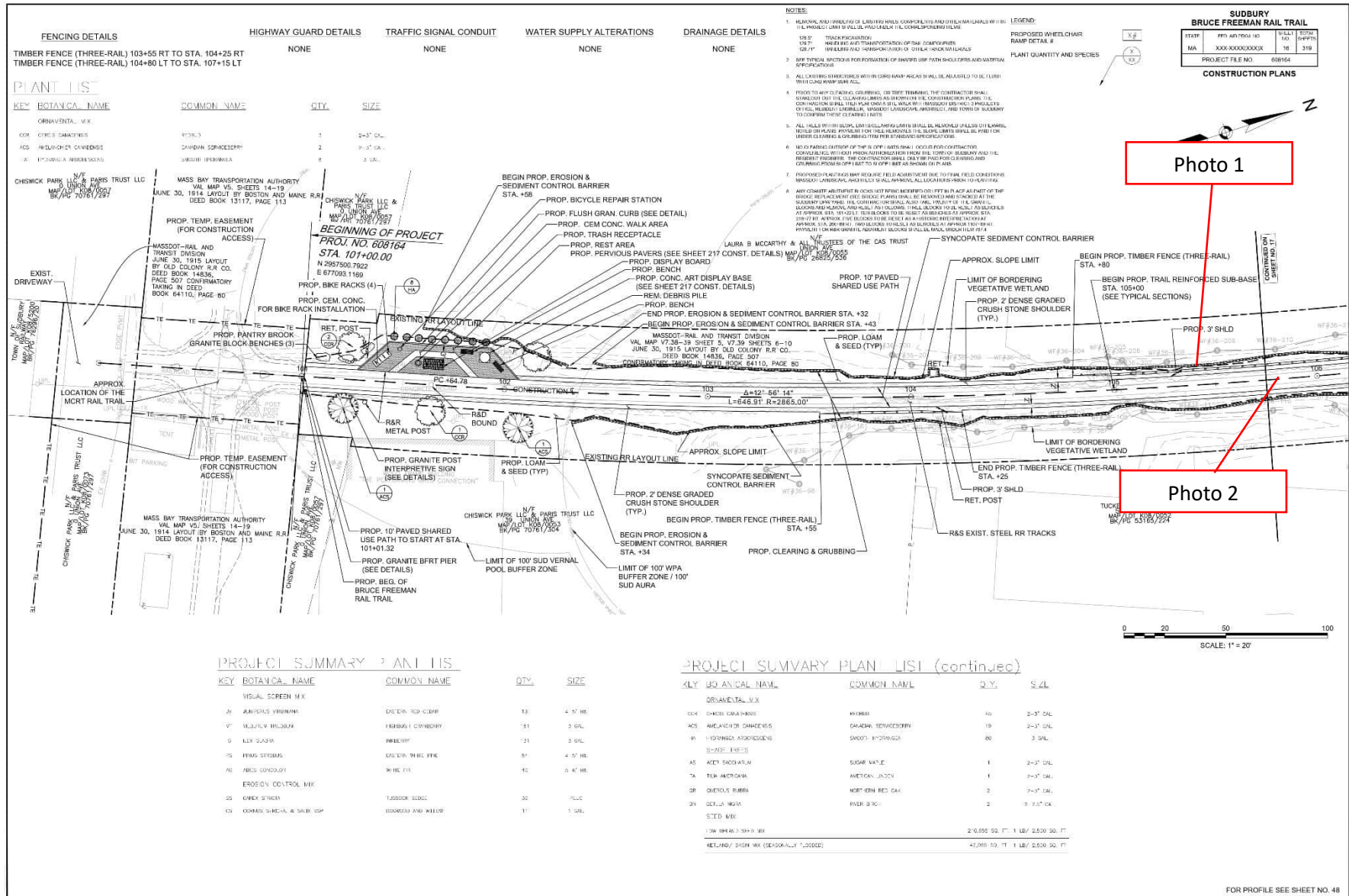
Item	Location/ Description	Observation Date	Resolution Due Date	Recommended/Discussed Resolution	Comments/Updates
42	Riprap slope extends beyond limits of work along the WF1 Series wetland near flags 103 to 107 Priority: High	5/28/2024	6/4/2024	The Contractor should confirm if this work was permitted by the Conservation Commission, as it does not appear to be a part of the approved plans/impacts. MassDOT should be consulted on next steps regarding notification and potential restoration.	<p>5/31/2024 - Observation remains.</p> <p>6/7/2024 - Observation remains.</p> <p>6/14/2024 - Riprap slope has been altered and active construction is repairing the area.</p> <p>6/17/2024 - During this inspection, additional work in support of the repair/potential replacement of an underlying pipe has been ongoing. It is recommended that the contractor confirm that they have coordinated with the Conservation Commission for this work and provide a restoration plan for the area once work is complete.</p> <p>6/24/2024 - During this inspection, BETA was informed that the existing cast iron pipe was replaced with a new concrete 12-inch reinforced concrete pipe. It appears that riprap was replaced along the side slopes to mirror conditions observed prior to this inspection.</p> <p>6/27/2024 - During this inspection, the area was observed to have been rolled and prepared for paving. Hydroseed was applied and plantings were installed.</p> <p>7/8/2024 - Germination was observed and the area will be monitored for stabilization. See previous updates regarding Conservation Commission coordination.</p> <p>7/15/2024 - This area could not be assessed due to paving operations ongoing during the inspection.</p> <p>7/22/2024 - See previous updates regarding Conservation Commission coordination.</p>
41	Stream Bank has been regraded beyond the limit of work at Station 216+00 Priority: High	5/28/2024	6/4/2024	The Contractor should confirm if this work was permitted by the Conservation Commission, as it does not appear to be a part of the approved plans/impacts. MassDOT should be consulted on next steps regarding notification and potential restoration.	<p>5/31/2024 - Observation remains.</p> <p>6/7/2024 - Observation remains.</p> <p>6/14/2024 - Observation remains.</p> <p>6/17/2024 - Observation remains.</p> <p>6/24/2024 - Observation remains.</p> <p>6/27/2024 - Observation remains.</p> <p>7/8/2024 - Observation remains.</p> <p>7/15/2024 - This area could not be assessed due to paving operations ongoing during the inspection.</p> <p>7/22/2024 - Crushed stone and sediment continue to be discharged to the stream between Stations 215+00 and 217+00 due to overtopped and undermined compost filter tubes.</p>

VI. Agency Submittals (Note: only filled out for monthly report)

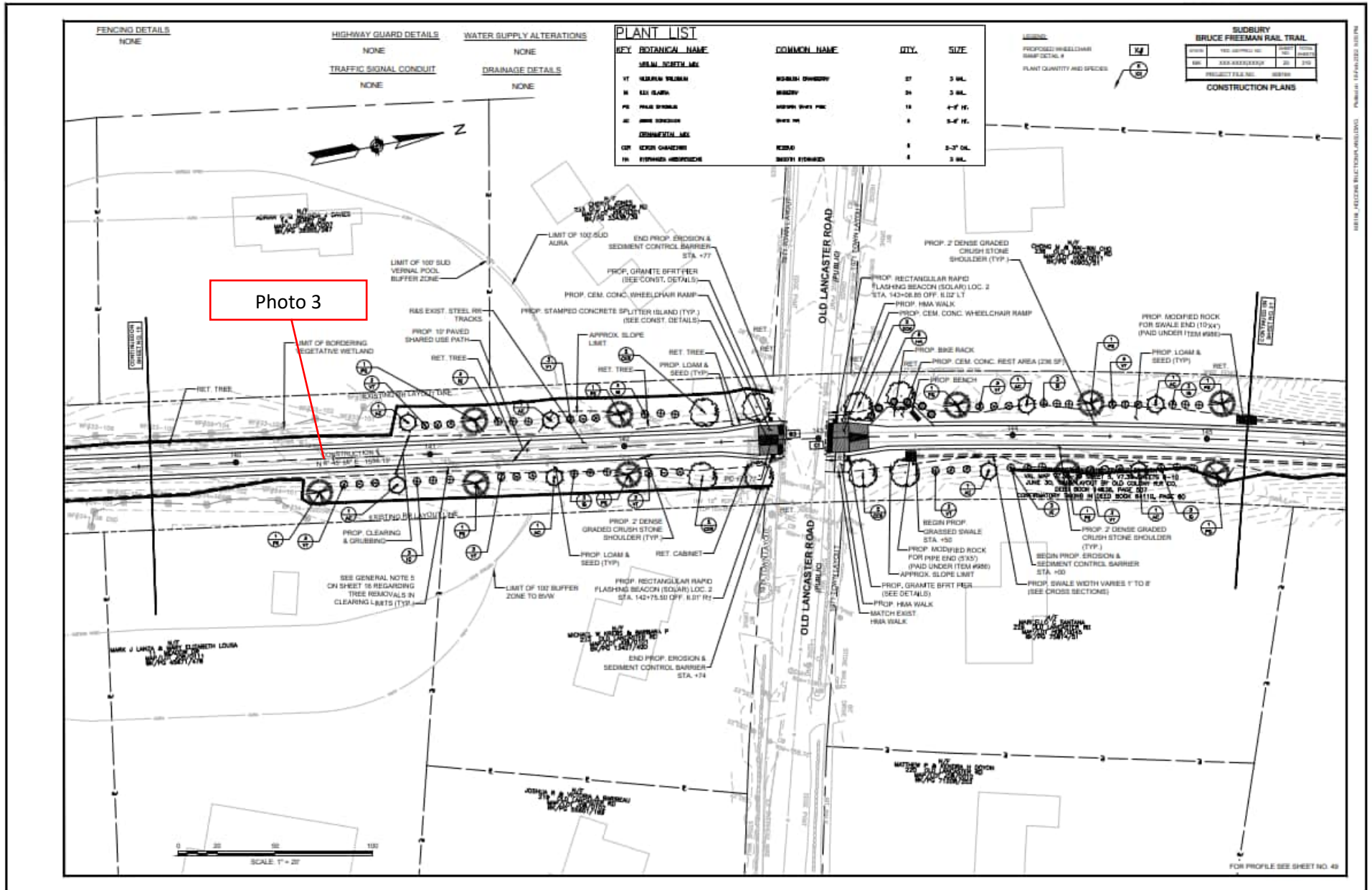
Submittal	Date Submitted	Description	Status

VII. Attachments (#3 only attached with monthly report)

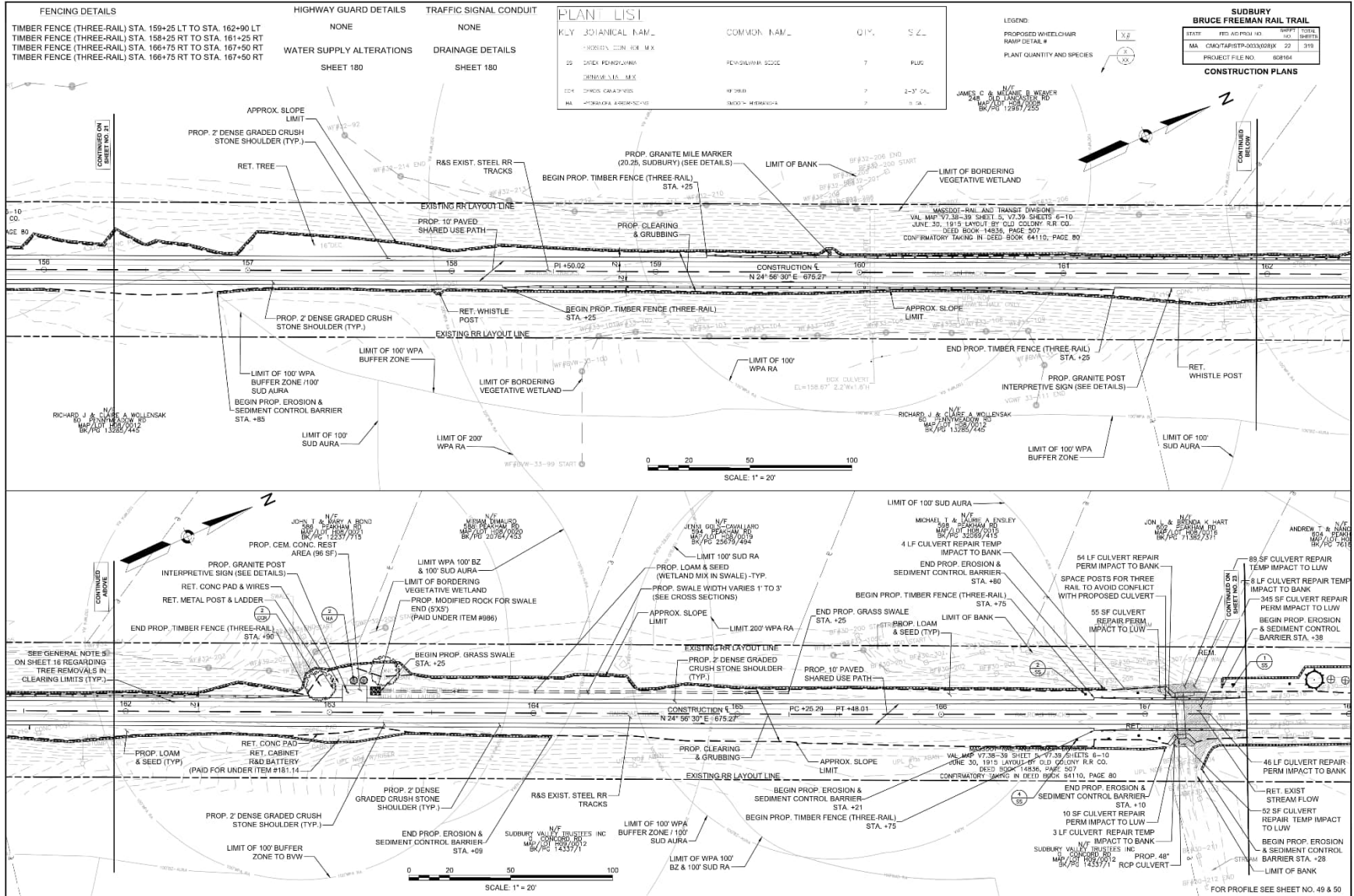
1. Field Sketch
2. Photographic Documentation
3. 3 Week Look ahead schedule



DATE: 18-JUN-2024 2:48 PM



BETA\1\CONSTRUCTION PLANS.DWG Published: 27-Jun-2024 10:53 AM



FENCING DETAILS	HIGHWAY GUARD DETAILS	TRAFFIC SIGNAL CONDUIT
TIMBER FENCE (THREE-RAIL) STA. 159+25 LT TO STA. 162+90 LT TIMBER FENCE (THREE-RAIL) STA. 158+25 RT TO STA. 161+25 RT TIMBER FENCE (THREE-RAIL) STA. 166+75 RT TO STA. 167+50 RT TIMBER FENCE (THREE-RAIL) STA. 166+75 RT TO STA. 167+50 RT	NONE WATER SUPPLY ALTERATIONS SHEET 180	NONE DRAINAGE DETAILS SHEET 180

KEY	JOHNICAL NAME	COMMON NAME	QTY	SIZE
02	DATEL FENCING	RE-SURFING 2202	7	6 1/2"
03	GENERIC LMS - M/S	W/ 2000	7	2-3" DIA.
04	CHOS. CANTY PILES	BRICK - REFURB 4	7	12 1/2"

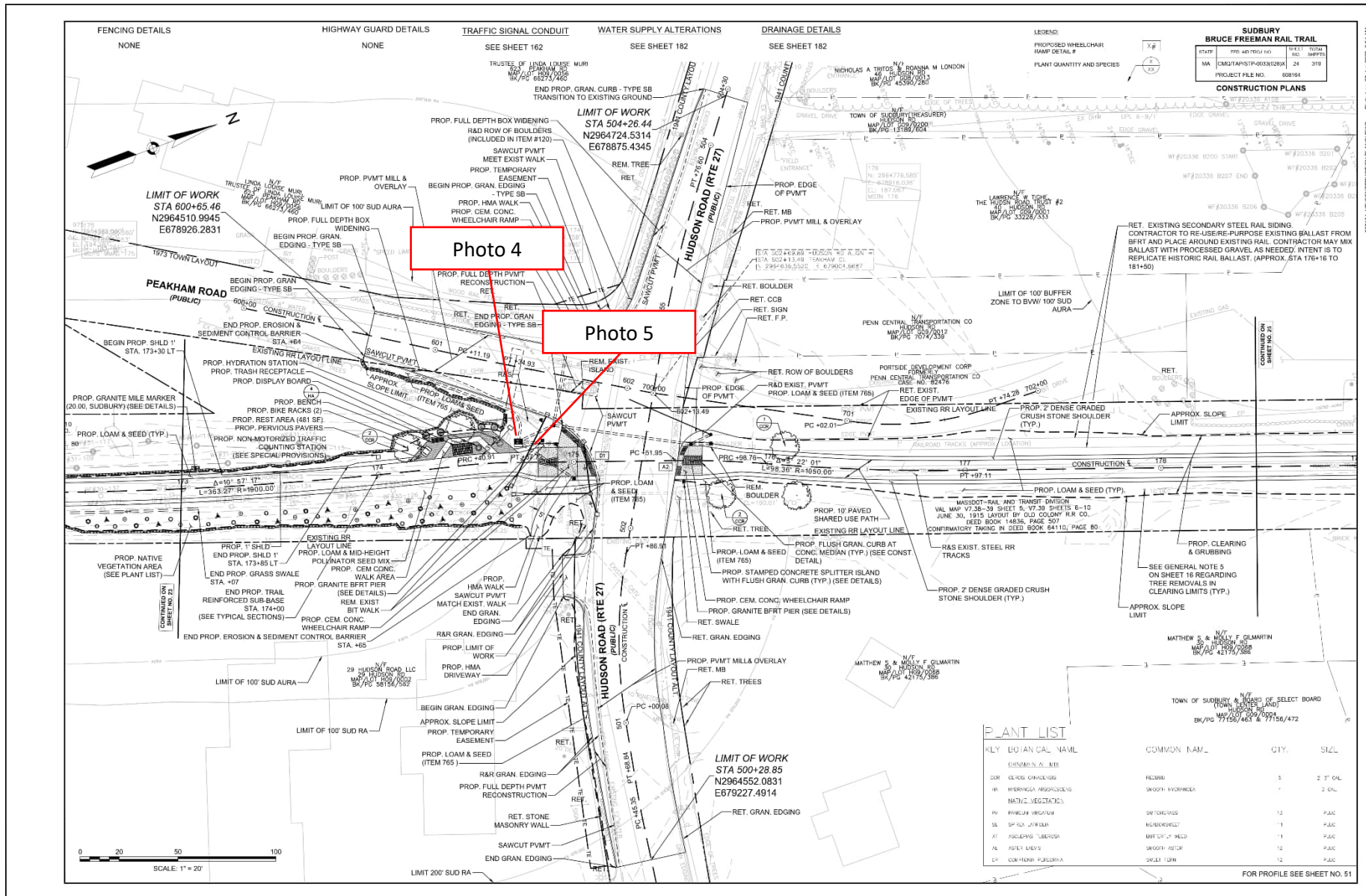
LEGEND
PROPOSED WHEELCHAIR RAMP DETAIL #
PLANT QUANTITY AND SPECIES

SUBURY BRUCE FREEMAN RAIL TRAIL

STATE	FED. AID PROJ. NO.	SHEET	TOTAL
MA	CMO7AR16TP-003/038X	22	319
PROJECT FILE NO. 608164			

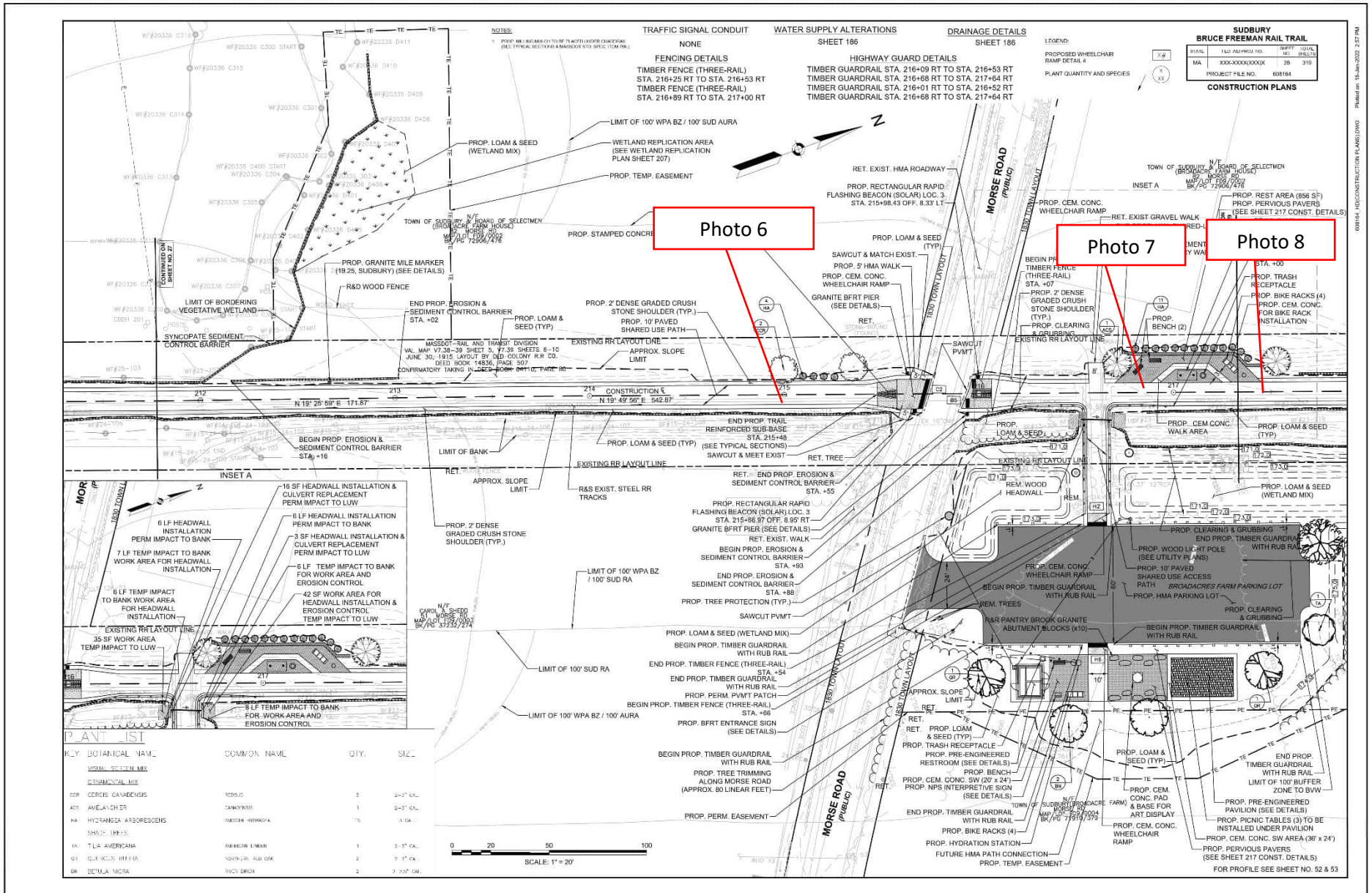
CONSTRUCTION PLANS

FOR PROFILE SEE SHEET NO. 49 & 50

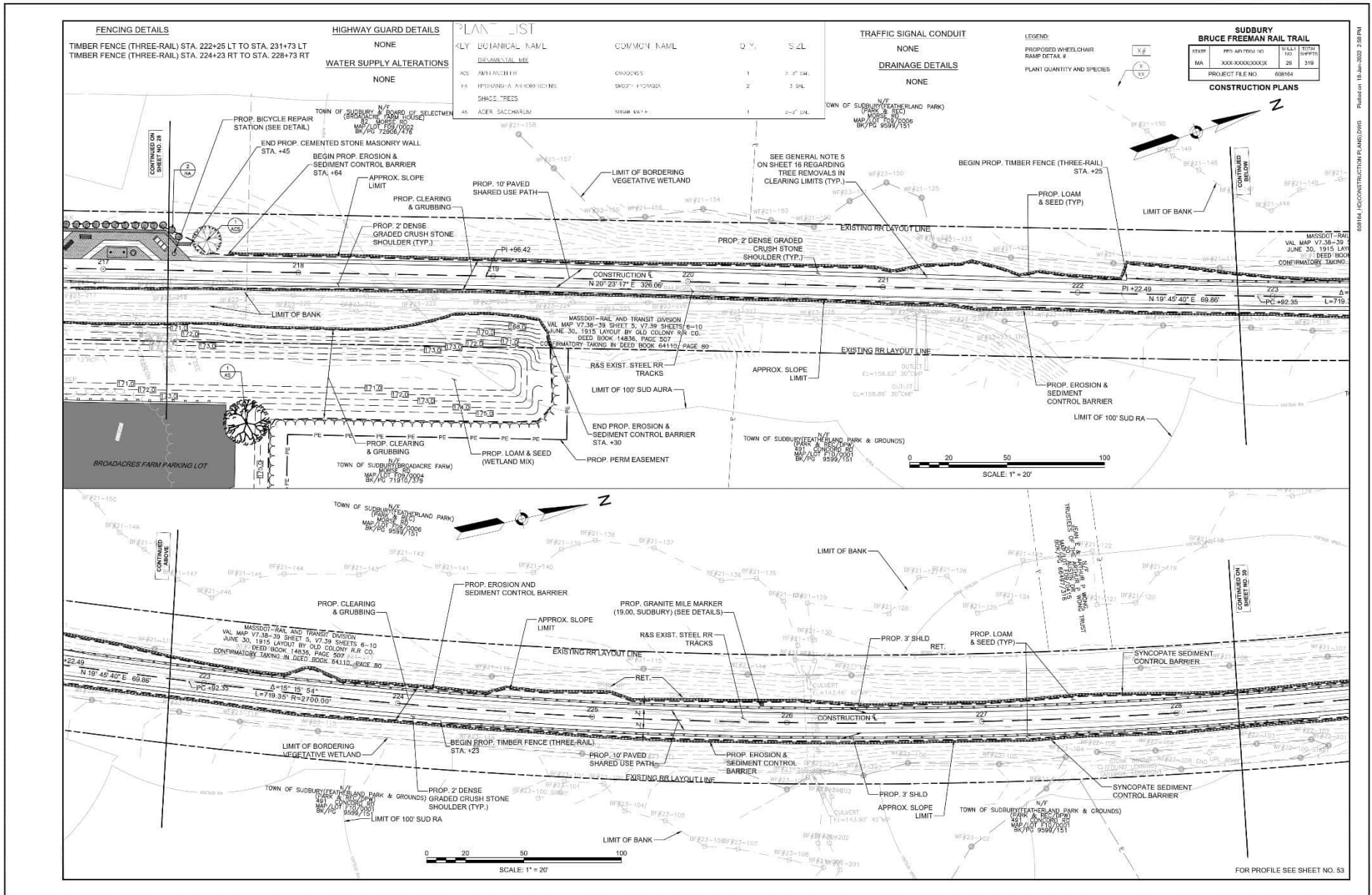


608194_110.CONSTRUCTION PLAN.DWG

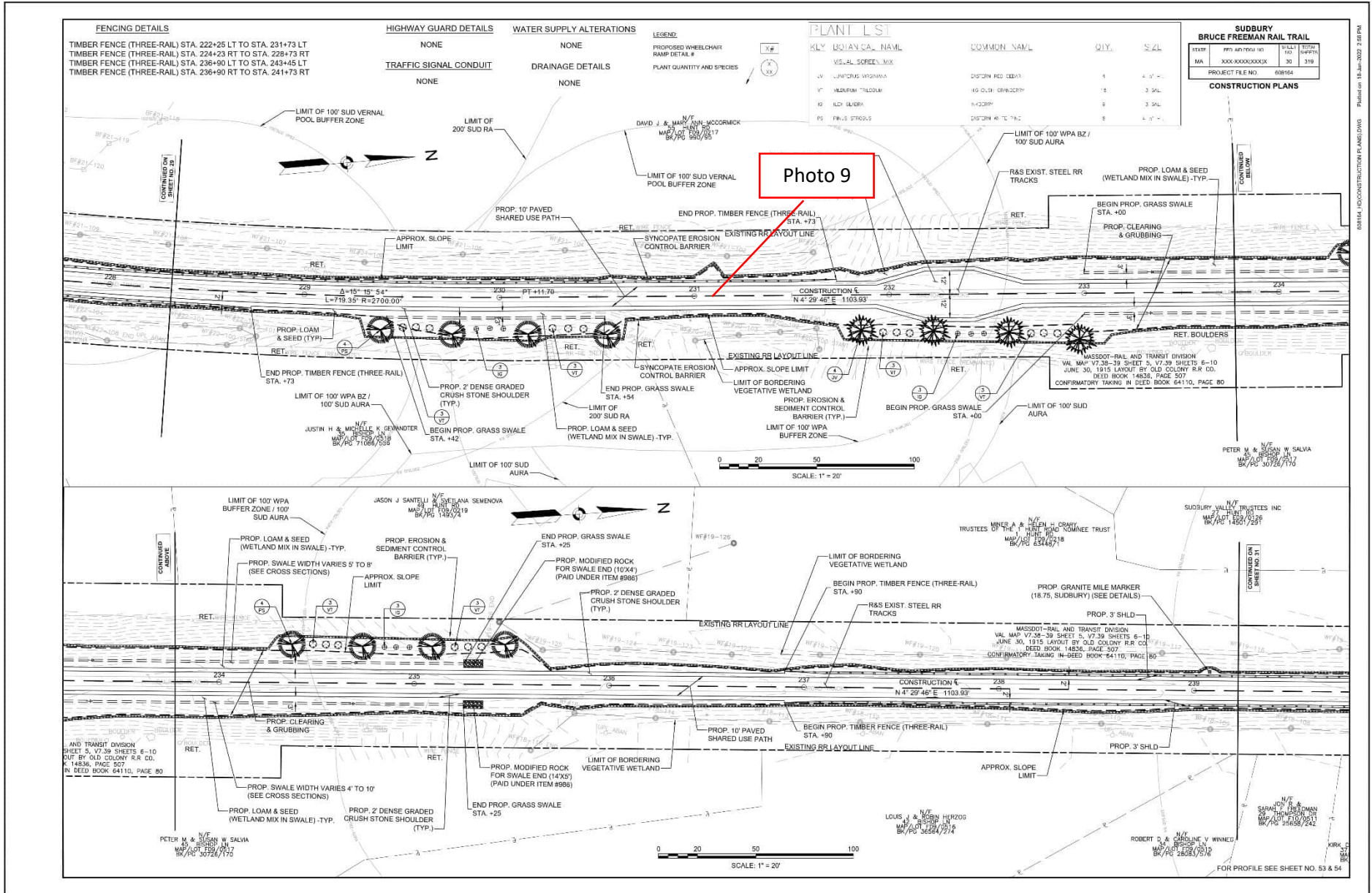
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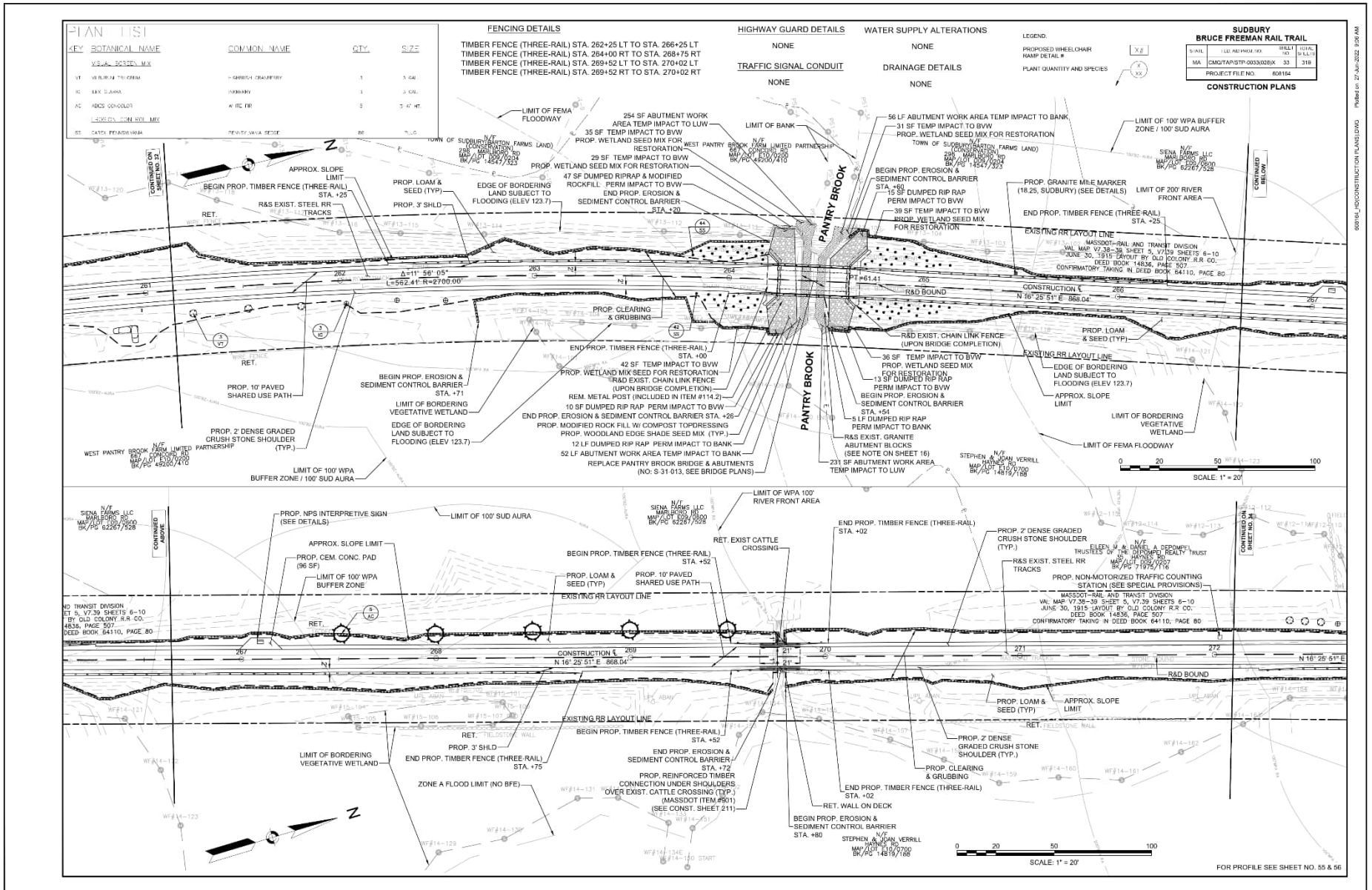
608164 - RECONSTRUCTION PLANS.DWG - PUBLISHED 15-JAN-2022 2:37 PM

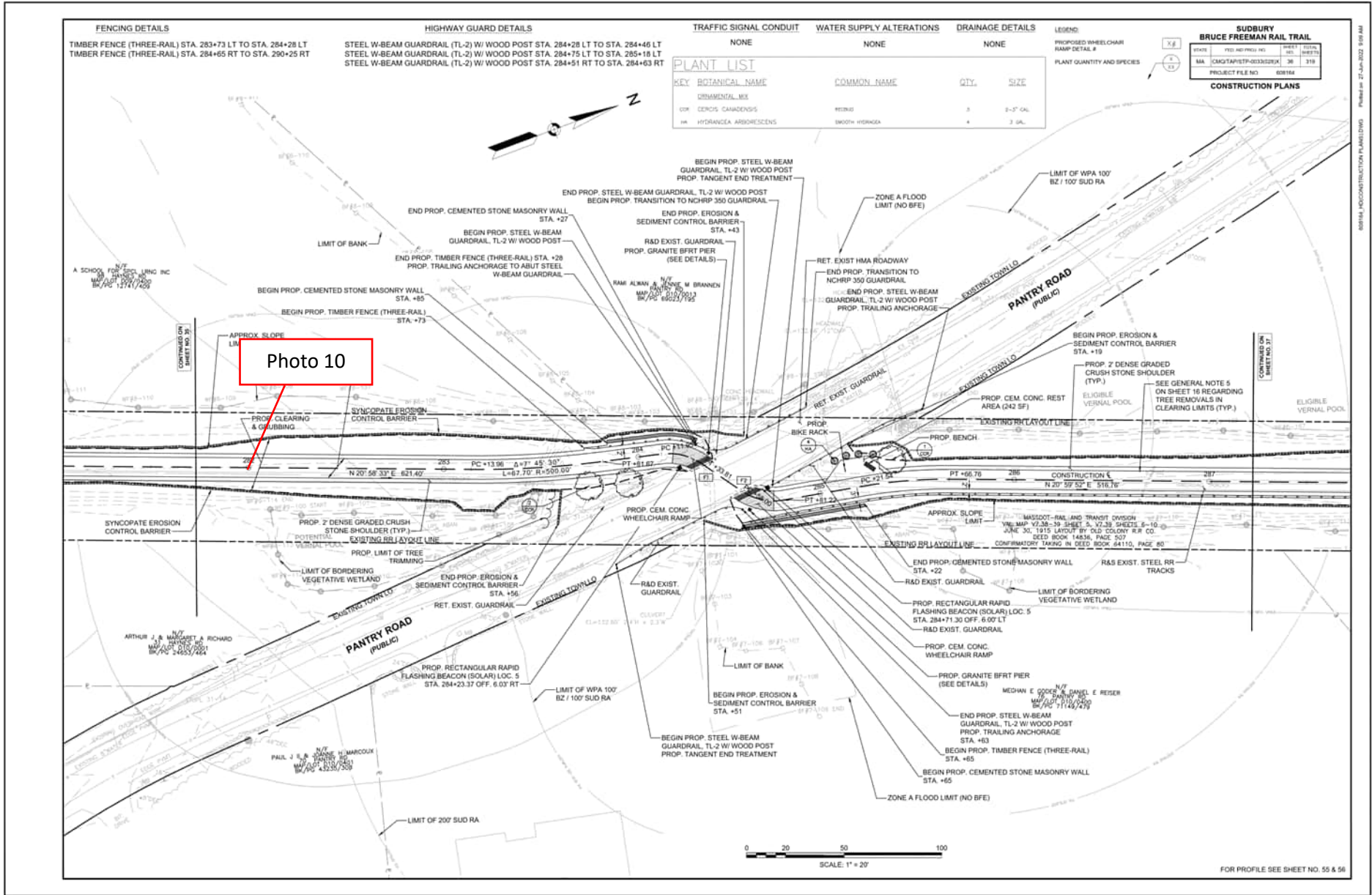


08/14/24 CONSTRUCTION PLANS.DWG | PUBLISHED 14-JUL-2024 2:58 PM



08/14/24 CONSTRUCTION PLANS.DWG | P:\18 Jun 2022 2:58 PM

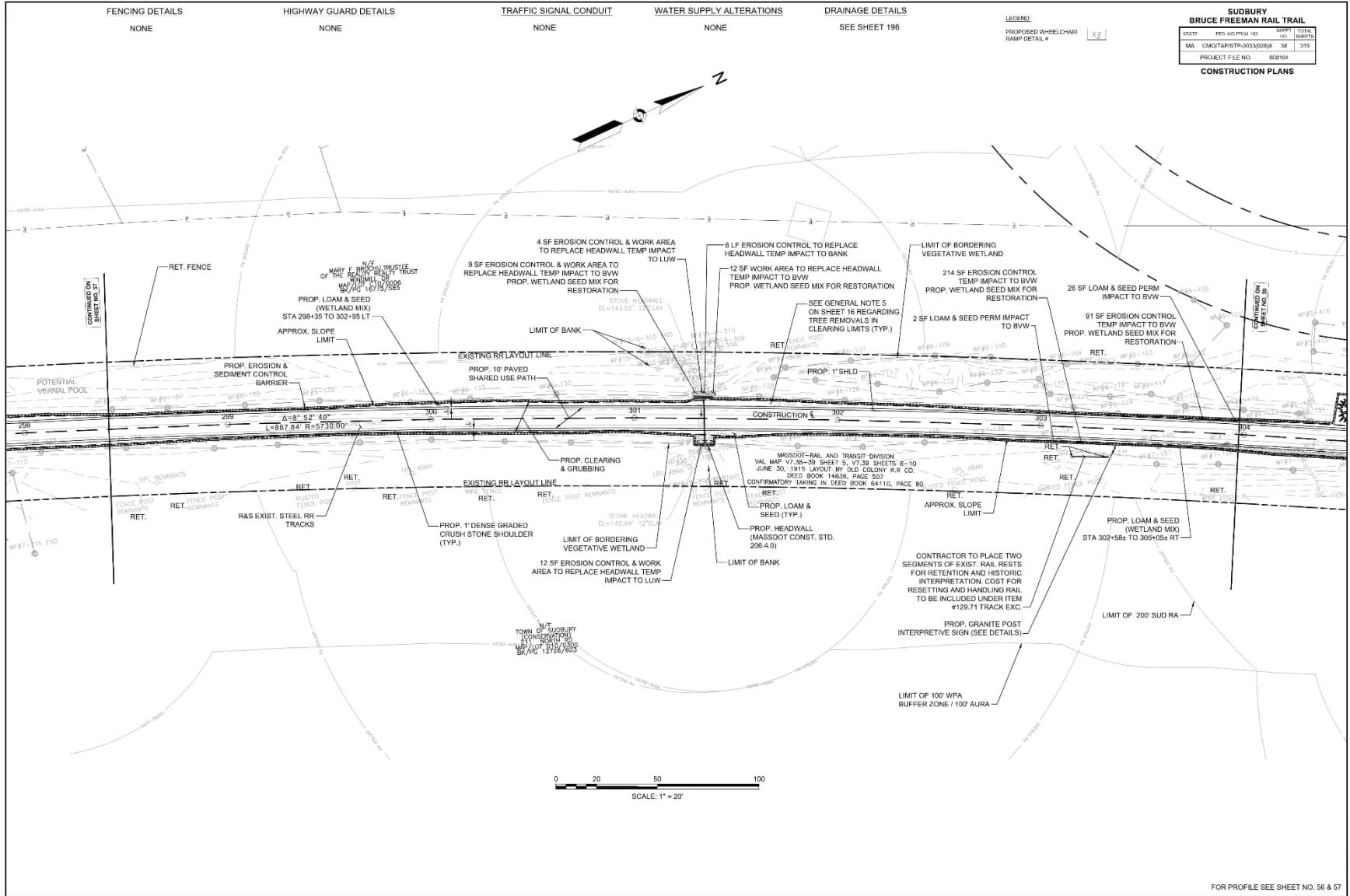


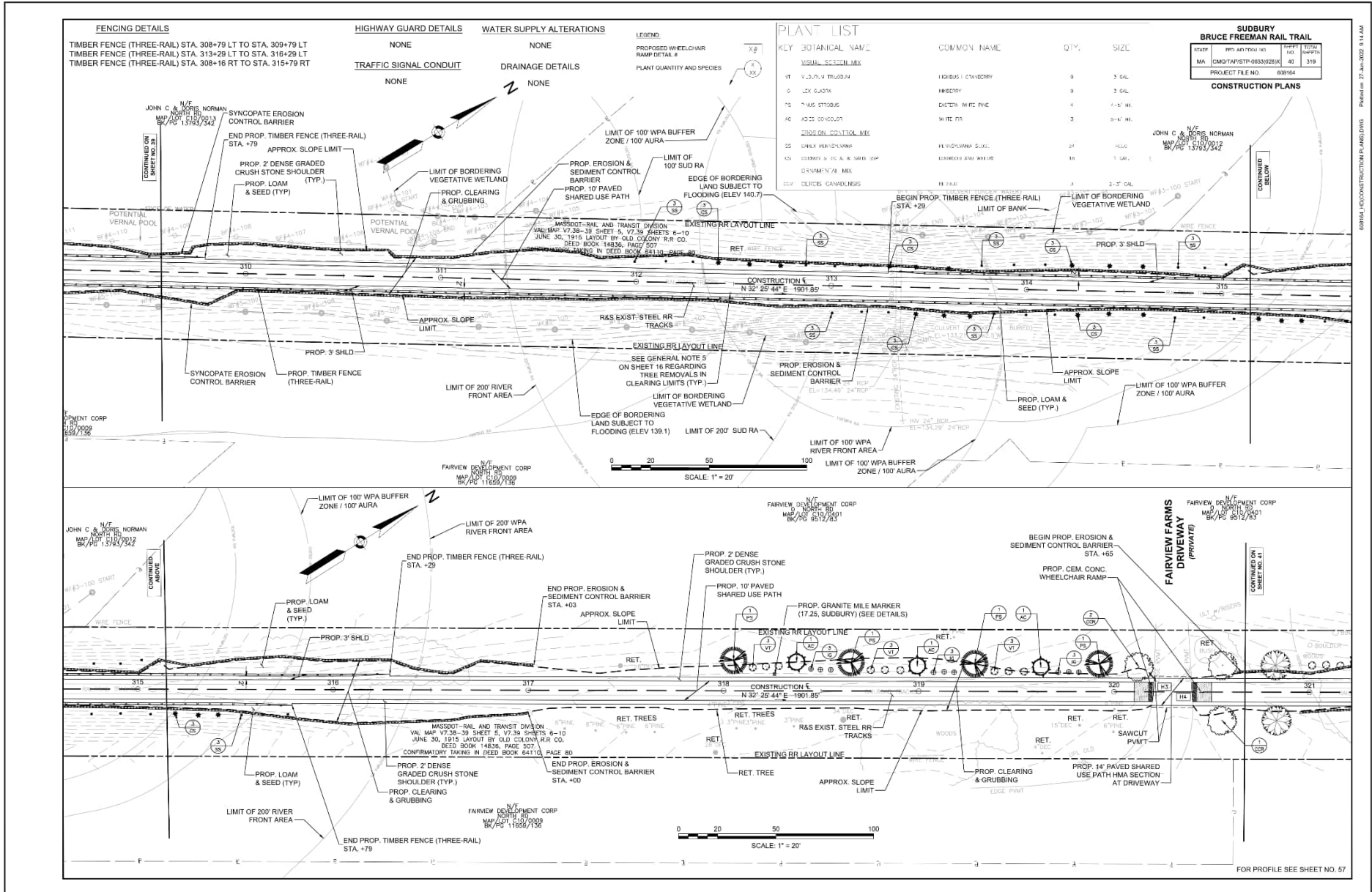


DATE PLOTTED: 27-JUN-2024 10:08 AM
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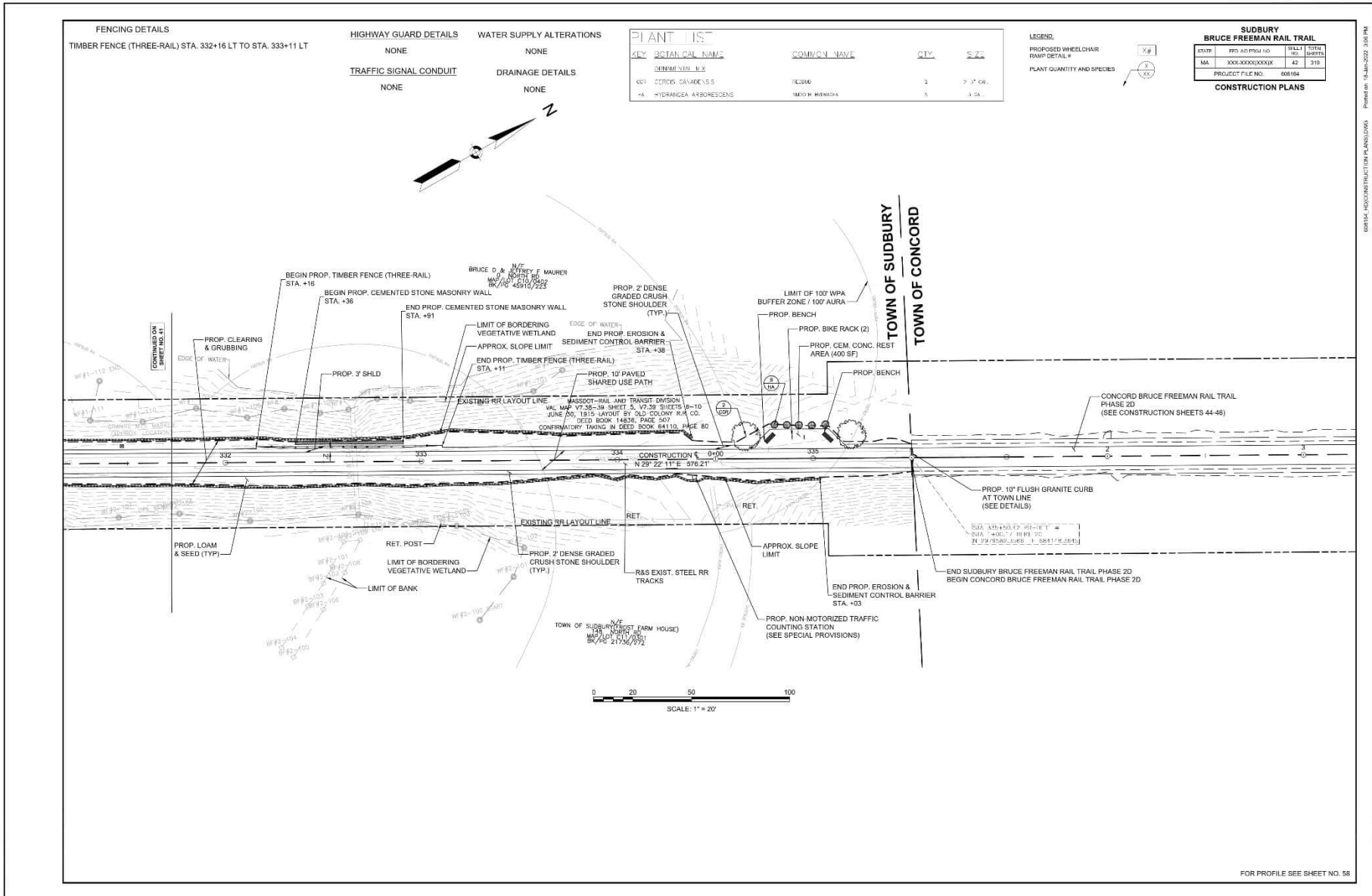
Publication: 27-Jun-2024 9:11 AM





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Released: 27-Jun-2025 9:14 AM



BETA INC. 100 CONSTRUCTION PLANS/DRAWINGS. PLOTTED ON 16-JUL-2022 3:05 PM

Site Location Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 1 **Date:**
7/22/2024

Direction Photo Taken:

Toward the East

Description:

Typical view of slopes requiring stabilization and removal of gravel/sediment accumulation along compost filter tubes at Station 105+00 to 106+00 per Compliance Action Items 43 and 44.



Photo No. 2 **Date:**
7/22/2024

Direction Photo Taken:

Toward the South

Description:

Typical view of crushed stone that has been placed and compacted on the sides of the path.



Site Location Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 3 **Date:**
7/22/2024

Direction Photo Taken:

Toward the Southeast

Description:

View of the slopes near Station 173+00 per Compliance Action Item 6.



Photo No. 4 **Date:**
7/22/2024

Direction Photo Taken:

Toward the Northeast

Description:

View of ongoing utility work at the Husdon Road intersection.



Site Location Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 5	Date: 7/22/2024	
Direction Photo Taken: Toward the East		
Description: View of a catch basin requiring inlet protection at the Hudson Road intersection per Compliance Action Item 50.		

Photo No. 6	Date: 7/22/2024	
Direction Photo Taken: Toward the South		
Description: View of the location where sediment has undermined the compost filter tubes and runoff into the stream bed at Station 215+00 to 215+50 per Compliance Action Item 41.		

Site Location	Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 7 **Date:**
7/22/2024

Direction Photo Taken:

Toward the South

Description:

View of where crushed stone was observed as overtopping the compost filter tubes and entering the streambed at Station 216+50 to 217 per Compliance Action Item 41.



Photo No. 8 **Date:**
7/22/2024

Direction Photo Taken:

Toward the East

Description:

View of an area requiring additional seed along the masonry wall at Station 217+45 per Compliance Action Item 34.



Site Location Bruce Freeman Rail Trail Right-of-Way	BETA Project No. 24.10326.23
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Photo No. 9 **Date:**
7/22/2024

Direction Photo Taken:

Toward the South

Description:

View of active compaction of the crushed stone on the sides of the path.



Photo No. 10 **Date:**
7/22/2024

Direction Photo Taken:

Toward the Southwest

Description:

View of hydroseed that was applied on a slope at Station 282+00.

