



Ulster County 2021 Climate Smart Communities Recertification Documentation

PE6 Action: GreenLITES

9 POINTS DOCUMENTED

Background: Ulster County submitted the [Hudson Valley Rail Trail – Phase 4](#) project for certification in the NYSDOT GreenLITES program. The project was self-rated by the Ulster County Planning Department using the GreenLITES project scorecard, and the project earning a rating of Silver in May 2021.

Documentation:

- GreenLITES Silver certificate
- GreenLITES Project Scorecard
- Project plans (submitted to NYSDOT with GreenLITES scorecard)

GreenLITES *Project Design* *Certification Program*



Recognizing Outstanding Leadership In Transportation and Environmental Sustainability



Nicolas Choubah P.E.
Assistant Commissioner
Chief Engineer



Marie Therese Dominguez
Commissioner



Ronald L. Epstein
Executive Deputy Commissioner

NYS DOT Certification Program for Design which aligns transportation infrastructure decisions with the needs of a sustainable society.



NEW YORK
STATE OF
OPPORTUNITY.

**Department of
Transportation**

GreenLITES

GreenLITES Project Environmental Sustainability Rating System Scorecard v 2.1.0				POINTS		Project: Hudson Valley Rail Trail West - Phase 4		Element Specific?	No
				Available	Scored	PIN: 8761.21	Type: 3 - Reconstruction and New Construction	Contact Name: Brian Slack	Ph #: 845-334-5590
CATEGORY	ID	DESCRIPTION				INSTRUCTIONS	EXPLANATION OR COMMENTS (optional)		
Sustainable Sites (S)	S-1 Alignment Selection	S-1a	Avoidance of previously undeveloped lands (open spaces or "greenfields").	2	0				
		S-1b	Selecting an alignment that establishes a minimum 100-foot buffer zone between the edge of pavement and a natural watercourse or significantly sized natural wetland to serve the purpose of stormwater filtration.	2	0				
		S-1c	Alignments which minimize overall construction "footprint." Examples: use of retaining walls, selecting design option with minimal footprint.	2	2		The alignment was refined many times to minimize impact to the surrounding residences, wetlands, businesses and roadways. In addition, retaining walls were used in select areas to avoid filling wetlands.		
		S-1d	Design vertical alignments which minimize total earthwork. (Applicable only for projects modifying existing vertical alignments.)	1	0				
		S-1e	Adjust alignment to avoid or minimize impacts to social/environmental resources (avoidance of parklands, wetlands, historic sites, farmlands, residential and commercial buildings, etc.).	1	1		The alignment was refined many times to minimize impact to the surrounding residences, wetlands, businesses and roadways. In addition, retaining walls were used in select areas to avoid filling wetlands.		
		S-1f	Alignments that optimize benefits among competing constraints. (The goal is not always the minimum-length alignment, but the one with the best benefit overall.)	1	1		The alignment of the shared-use path was designed to balance usability, safety, environmental impacts, and impacts to residences and businesses.		
		S-1g	Micro-adjustments that do not compromise safety or operation but make the difference in providing sufficient clear area for tree planting.	1	1		The alignment was strategically designed to allow for sufficient clear areas for berms and/or tree plantings.		
		S-1h	Clear zones seeded with seed mixtures that help to reduce maintenance needs and increase carbon sequestration.	1	0				
		S-1i	Provide a depressed roadway alignment.	1	0				
		S-1j	Use of launched soil nails as a more cost effective option to stabilize a slope rather than, for example, closing a road to construct a retaining wall which may negatively affect traffic flow and neighboring properties.	1	0				
Sustainable Sites (S)	S-2 Context Sensitive Solutions	S-2a	Adjust or incorporate highway features to respond to the unique character or sense of place (both natural and built) of the area ("Unique character" means whatever identifiable elements make a place distinctive, memorable, important to the community, etc. - landmarks, views, historic bridges & buildings, parkways, characteristic use of materials, a notable stand of trees, etc.).	2	2		The shared-use path meanders on and off the former railroad to best fit with the context of the area but also provide accessibility to the surrounding environment, including the Black Creek.		
		S-2b	Incorporate local or natural materials for substantial visual elements (e.g., bridge fascia, retaining walls).	2	0				
		S-2c	Visual enhancements (screening objectionable views, strategic placement of vegetation, enhancing scenic views, burying utilities, etc.).	2	2		A significant amount of coniferous trees were planted along the shared-use path and adjoining properties for screening.		
		S-2d	Period street furniture/lighting/appurtenances.	1	0				
		S-2e	Inclusion of visually-contrasting (colored and/or textured) pedestrian crosswalk treatments.	1	0				
		S-2g	Incorporates guidance from Section 23 - Aesthetics of the NYS Bridge Manual.	1	0				
		S-2h	Site materials selection & detailing to reduce overall urban "heat island" effect.	1	0				
		S-2i	Permanently protect viewsheds via environmental or conservation easements.	1	0				
		S-2j	Color anodizing of aluminum elements (ITS cabinets, non-decorative light poles, etc.).	1	0				
		S-2k	Decorative bridge fencing (in lieu of standard chain link).	1	1		The project specified decorative bridge railing and fencing.		
		S-2l	Use of concrete form liners (for bridge approach barriers, parapet walls, retaining walls, noise walls, bridge piers & abutments, etc.)	1	0				
		S-2m	Imprinted concrete/asphalt mow strips, gores and/or snow storage areas.	1	0				
Sustainable Sites (S)	S-3 Land Use/Community Planning	S-3a	Use of more engaging public participation techniques (e.g. charette, task force).	2	0				
		S-3b	Enhanced outreach efforts (e.g. newsletters, project-specific Web page, communications issued in multiple languages).	2	2		A project specific webpage was established.		
		S-3c	Projects better enabling use of public transit (e.g. bus shelters, 'Park & Ride').	2	0				
		S-3d	Projects applying "Walkable Communities" and/or "Complete Streets" concepts.	2	2		The project is a shared-use path extension to further develop the County's Walkable Community plan.		
		S-3e	Projects that increase transportation efficiencies for moving freight through features such as dedicated rail or intermodal facilities or the use of unit trains to remove trucks from highways and conserve fuel.	2	0				
		S-3f	Project-specific formal agreement with public or private entities enabling environmental betterment, technological advancement, or financial assistance or relief to the Department.	2	0				
		S-3g	Project is consistent with local and regional plans beyond those generated by the MPO; (e.g., waterfront revitalization plans, greenway plans, the Scenic Byway program, and other statewide non-transportation plans with regional components) and/or local Smart Growth-based master/comprehensive plans.	2	2		The project was consistent with the plans to develop the Empire State Trail (EST) and is now part of the EST.		
		S-3h	Project reports and community outreach materials available online other than the standard project specific web page.	1	0				
		S-3j	Establishment of a new recreational access facility (trailhead parking, car top boat launch, info/map kiosk).	2	2		Trailhead parking was established along with an informational kiosk.		
		S-3k	Establishment of a new recreational facility (pocket park, roadside overlook, roadside picnic rest area, etc.).	2	0				
Sustainable Sites (S)	S-4 Protect, Enhance or Restore Wildlife Habitat	S-4a	Mitigation of habitat fragmentation through use of significant techniques such as consolidated stream, wetland or ecological mitigation areas, or creation of dedicated "eco viaducts." (Raised roadways that serve to avoid impacts to ecologically important areas such as rare plant communities, diminishing habitats and wildlife migration corridors.).	3	0				
		S-4b	Providing for enhancements to existing wildlife habitat (e.g. bird & bat houses, nesting boxes, osprey poles, turtle nesting areas, avoiding piping plover habitat).	2	0				
		S-4c	Partial mitigation of habitat fragmentation through techniques (United States Army Corp of Engineers (USACE) regional conditions) such as over-sizing culverts to accommodate aquatic and non-aquatic species passage.	2	2		The alignment was raised in areas that bisected wetlands and oversized culverts were provided to accommodate species passage.		
		S-4d	Use of natural-bottomed culverts.	2	0				

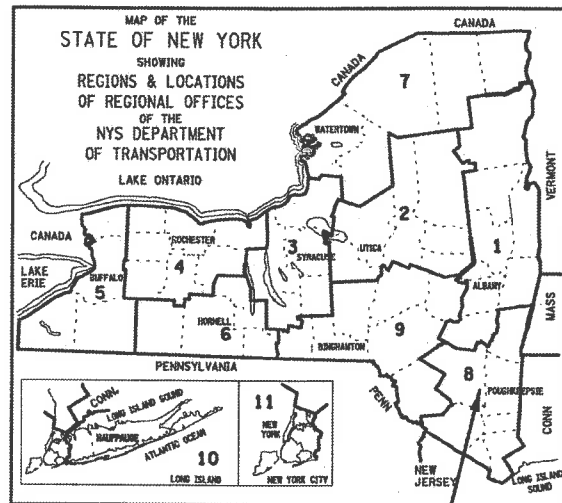
GreenLITES Project Environmental Sustainability Rating System Scorecard v 2.1.0			POINTS		Project: Hudson Valley Rail Trail West - Phase 4			Element Specific?	No
			Available	Scored	PIN: 8761.21	Type: 3 - Reconstruction and New Construction	Contact Name: Brian Slack	Ph #: 845-334-5590	
CATEGORY	ID	DESCRIPTION	Available	Scored	INSTRUCTIONS		EXPLANATION OR COMMENTS (optional)		
Sustainable Sites (S)	S-4 Wildlife crossings that are structures that allow for the safe passage of wildlife across highways without their crossing directly on the roadway. Examples include wildlife overpass/underpass and amphibian tunnels.	S-4e	2	0					
		S-4f	2	0					
		S-4g	1	1			The alignment was designed to minimize impact to the adjoining Appalachian Oak-Hickory Forest.		
		S-4h	1	0					
		S-4k	1	0					
		S-4l	1	0					
		S-4m	1	1			All tree clearing activities we performed in the winter months to avoid potential impact to the Indiana and Northern Long-Eared Bats.		
		S-4n	1	0					
	S-5 Protect, Plant or Mitigate for Removal of Trees & Plant Communities	S-5a	2	0					
		S-5b	2	0					
		S-5c	2	0					
		S-5d	2	0					
		S-5e	1	0					
		S-5f	1	0					
		S-5g	1	0					
		S-5h	1	1			Trees and shrubs were planted where feasible in lieu of traditional grass turf.		
		S-5i	1	0					
		S-5j	1	0					
Water Quality (W)	W-1 Stormwater Management (Volume & Quality)	W-1a	2	2			Permanent stormwater management practices were constructed at the trailhead parking lot to improve water quality.		
		W-1b	2	0					
		W-1c	2	2			A bio-retention basin was constructed at the trailhead parking to reduce pollutant loading.		
		W-1d	2	0					
		W-1f	1	0					
		W-1g	1	0					
	W-2 Best Management Practices (BMPs)	W-2a	2	2			A bio-retention basin was constructed at the trailhead parking to treat runoff.		
		W-2b	2	0					
		W-2c	2	0					
		W-2d	1	0					
		W-2e	1	1			The stormwater was conveyed through grass channels where feasible.		
		W-2f	2	0					
Re-use (M)	M-1 Reuse of Materials	M-1a	2	2			All excavated material was specified to remain on-site and designated for re-use.		
		M-1b	2	0					
		M-1c	2	2			All excavated material was specified to remain on-site and designated for re-use.		
		M-1d	2	0					
		M-1e	2	0					
		M-1f	2	0					
		M-1g	2	0					
		M-1h	2	0					
		M-1i	2	0					

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Materials & Resources (M)		M-1j	Use surplus excavated material, demolished concrete, or millings at nearby abandoned quarries to help fulfill an approved DEC reclamation plan.	2	0							
		M-1k	Specify that 50% or more of topsoil removed for grading is reused on site.	1	0							
		M-1l	Design the project so that cut and fills are balanced to within 25 percent.	1	0							
		M-1m	Reuse (i.e., remove and reset versus remove and replace) of granite curbing.	1	0							
		M-1n	Reuse of elements of the previous structure (stone veneer, decorative railing, etc.).	1	0							
		M-1o	Designing an on-site location for chipped wood waste disposal from clearing and grubbing operations.	1	0							
		M-1p	Specifying the recycling of chipped untreated wood waste for use as mulch and/or ground cover. (Pressure/preservative-treated or painted/coated wood cannot be used as mulch and must be disposed properly).	1	0							
		M-1q	Project documents make scrap metals available for reuse or recycling.	1	0							
		M-1r	Identify approved, environmentally acceptable and permitted sites in the contract documents for the disposal of surplus excavated material.	1	0							
		M-1s	Obtain and implement a project specific DEC Beneficial Use Determination for the innovative re-use of otherwise waste material from a location within NYS.	1	0							
		M-1t	Specify the salvage/moving of houses rather than demo for disposal in landfills.	1	0							
		M-1u	Reuse of major structural elements such as bridge piers, bridge structure, etc. if warranted and appropriate and does not compromise the feature life cycle.	2	2			A former railroad bridge was rehabilitated rather than replaced to re-use the existing elements.				
Materials & Resources (M)	M-2 Recycled Content	M-2a	Use tire shreds in embankments.	2	0							
		M-2b	Use recycled plastic extruded lumber or recycled tire rubber (e.g. for noise barriers).	2	0							
		M-2c	Specify hot-in-place or cold-in-place recycling of hot mix asphalt pavements.	2	0							
		M-2d	Specify use of recycled glass in pavements and embankments, as drainage material or filter media where adequate local sources can be obtained.	2	0							
		M-2e	Specify asphalt pavement mixes containing Recycled Asphalt Pavement (RAP).	2	0							
		M-2f	Specify PCC pavement mixes containing Recycled Concrete Aggregate (RCA).	2	0							
		M-2g	Use crumb rubber or recycled plastic for noise barrier material.	2	0							
		M-2h	Use of porous pavement systems in light duty situations (e.g. sidewalks, truck turnarounds, rest stops, parking lots, police turnarounds).	2	0							
	M-3 Local Materials	M-3a	Specify locally available natural light weight fill. Contact Geotechnical staff to help in locating these materials.	2	0							
		M-3b	Specify local seed stock and plants.	2	0							
	Materials & Resources (M)	M-4 Bio-engineering Techniques	M-4a	Project designs that utilize soil bioengineering treatments (the reliance on plant material for slope protection, rebuilding, stabilization, and erosion control) along water bodies/wetlands.	2	2			Erosion control mats and turf establishment were used in conjunction to stabilize slopes adjoining wetlands and streams.			
			M-4b	Project designs utilizing soil biotechnical engineering treatments (combination of plant materials and structural elements to achieve slope protection, rebuilding, stabilization, and erosion control) along water bodies/wetlands. Examples are: vegetated crib wall, vegetated gabion, and vegetated mats.	2	0						
M-4c			Projects using targeted biological control methods to reduce invasive species, such as the release of specific types of beetles to control purple loosestrife.	2	0							
M-4d			Project designs utilizing soil biotechnical engineering treatments (combination of plant materials and structural elements to achieve slope protection, rebuilding, stabilization, and erosion control) NOT along water bodies or wetlands. Examples include vegetated: crib walls, gabions, Geosynthetic Reinforced Earth Systems (GRES), geocells, and mats.	1	0							
M-4e			Project designs that utilize soil bioengineering treatments or soil biotechnical engineering treatments in upland areas.	1	0							
M-5 Hazardous Material Minimization			M-5a	Project design substantially minimizes the need to use hazardous materials (e.g. steel or conc RR ties instead of treated wood), or increases the interval before reconstruction must be performed using hazardous or toxic materials, or improves durability of components containing hazardous substances.	2	0						
	M-5b	Project design specifies less hazardous materials or avoids generating contaminated wastes by reducing the volatile organic compounds (VOCs) or hazardous air pollutants (HAPs) emitted during project construction (e.g., use of non-solvent traffic or bridge paints, lower VOC/nonhazardous air pollutant bridge deck sealers) and by eliminating or reducing toxic metals/components.	2	0								
	M-5c	Removing and disposing of contaminated soils beyond what is necessary for project construction.	2	0								
Argy & Atmosphere (E)	E-1 Improved Traffic Flow	E-1a	Special use lane (HOV/Reversible/Bus Express).	3	0							
		E-1b	Innovative interchange design and/or elimination of freeway bottlenecks (diverging diamond, single point urban).	3	0							
		E-1c	Specify new roundabout(s).	3	0							
		E-1d	Implementation of a robust Traffic Management Center / Traveler Information System operation (e.g., TMC, CCTV, VMS freeway detection, ramp metering, road weather info system and/or weigh in motion devices, travel time signs).	3	0							
		E-1e	Installation of a closed-loop coordinated signal system.	2	0							
		E-1f	Installation of a transit express system (queue jumper, pre-emptive signals, etc)	2	0							
		E-1g	Expansion of a Traffic Management Center / Traveler Information System operation; for example increasing system coverage significantly (installation of new CCTV, VMS, freeway detection, ramp metering, road weather information system and/or weigh in motion devices, travel time signs, etc.).	2	0							
		E-1h	Implementation of a corridor-wide access management plan.	2	0							
		E-1i	Limiting/consolidating access points along highway.	1	0							
		E-1j	Improving a coordinated signal system and other signal timing and detection systems.	1	0							

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Energy & Atmosphere (E)	E-1k	Adding bus turnouts.	1	0					
	E-1l	Installing higher capacity controllers (model 2070s) with features to improve flow and reduce delay at intersections.	1	0					
	E-1m	Infill and/or preparation for Traffic Management/Traveler Information System operation (installation of VMS, CCTV, etc.) with existing system coverage to increase or improve density of devices, installation of conduit in anticipation of future Traffic Management/Traveler Information System need, etc.	1	0					
	E-1n	Inclusion of an integrated traffic/incident management/traveler information systems or strategies to manage traffic during construction (queue or speed warning, VMS with real time construction information, tow/HELP vehicles on site/standby, CCTV monitoring of construction zone, etc.).	1	0					
	E-1o	Installation of isolated systems to provide for spot warning (queue warning, truck rollover, low bridge, no trucks allowed, etc.).	1	0					
	E-1p	Road Diet (reduction of travel lanes to incorporate a single bidirectional center turn lane and wider right-hand lanes to accommodate bicycles).	2	0					
	E-2	Reduce Electrical Consumption							
	E-2a	Solar/battery powered street lighting or warning signs.	2	0					
	E-2b	Replace overhead sign lighting with higher type retro-reflective sign panels.	2	0					
	E-2c	Use of LED street lighting.	2	0					
	E-2d	Solar bus stops.	2	0					
	E-2e	Use of LED warning signs/flashing beacons	1	0					
	E-2e	Retrofit existing street/sign lighting with high efficiency types.	1	0					
	E-3	Reduce Petroleum Consumption							
	E-3a	Provide new Park & Ride lots.	3	0					
	E-3b	Provide new intermodal connections.	3	0					
	E-3c	Increase bicycle amenities at Park & Rides and transit stations (bike lockers/shelters, Web-based reservations system for lockers, providing showers or partnering with health clubs for these services).	2	0					
	E-3e	Operational improvements of an existing Park & Ride lot.	1	0					
	E-3f	Improve an existing intermodal connection (e.g. add BRT station, kiosks, etc.).	1	0					
	E-3g	Reduce mowing areas outside of the clear zone, reestablishing natural ground cover and/or seeding with low maintenance seed species. Example: Incorporation of Conservation Alternative Mowing Practices (CAMPS) techniques/guidance into design plans.	1	0					
	E-3h	Use of warm mix asphalt.	1	0					
	E-3i	Documented analysis proving the project design reduces either the Department's or the local community's carbon footprint (Send analysis to the GreenLITES Program Manager for determination of eligibility).	1	0					
	E-3j	Documented analysis proving the Work Zone Traffic Control scheme chosen is the alternative that overall requires the least amount of petroleum (Send analysis to the GreenLITES Program Manager for determination of eligibility).	1	0					
	E-3k	Improved shading through vegetation at Park & Ride lots to cut down on heat island effect and the use of automotive air conditioning by waiting motorists.	1	0					
	E-4	Improve Bicycle & Pedestrian Facilities							
	E-4a	New grade-separated (bridge or underpass) bike/pedestrian crossing structure (this item is not for replacements or rehabs).	3	0					
	E-4b	Separate bike lane at intersection.	2	0					
	E-4c	New separated bike path or shoulder widening to provide for on-road bike lane.	2	2			The project constructed a shared-use path adjacent to NYS Route 299.		
	E-4d	Create new or extend existing sidewalks.	2	0					
	E-4e	New pedestrian signals.	2	0					
	E-4f	Align roadway and other highway features/structures within ROW as to enable future development of separated multi-use paths or other bike/ped facilities.	2	0					
	E-4g	Work with local communities to create parallel bike routes where state roads are not suitable for less experienced cyclists.	2	0					
	E-4h	Sidewalk or bikeway rehabilitation, widening, realignment or repair.	1	0					
	E-4i	Upgrading pedestrian signals - inclusion of pedestrian buttons and/or addition of audible signal, countdown timers.	1	0					
	E-4j	Installation of bikeway signs, "Share the Road" signs, and/or Sharrow (shared lane) pavement markings.	1	0					
	E-4k	Shoulder restoration for bicycling.	1	0					
	E-4l	Inclusion of five-rail bridge rail system for bicyclists.	1	0					
	E-4m	Installation of permanent bicycle racks.	1	0					
	E-4n	New crosswalks.	1	1			New crosswalks were established across roadways and driveways.		
	E-4o	New curb bulb-outs.	1	0					
	E-4p	New raised medians/pedestrian refuge islands.	1	0					
	E-4q	New speed hump/speed table/raised intersection.	1	0					
	E-4r	New curbing (where none previously existed), to better define the edge of a roadway and to provide vertical separation of pedestrian facilities; does not include flush, mountable or bridge curbing.	1	0					
	E-4s	New or relocated highway barrier or repeating vertical elements (trees, lampposts, bollards, rural mailboxes, etc) between roadway & walk/bikeway to better separate/delineate motorized and non-motorized travel ways.	1	1			Guiderail, an earth berm and trees were installed/planted between the shared-use path and Route 299 to delineate motorized and non-motorized travel ways.		
	E-4t	Installation of bicycle detectors (quadrapoles) at signalized intersections.	1	0					

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CATEGORY ID DESCRIPTION							INSTRUCTIONS		EXPLANATION OR COMMENTS (optional)	
Energy & Atmosphere (E)		E-4u	"All Stop" phase programmed into a traffic signal and/or button actuated "No Turn on Red" LED sign.	1	0					
		E-4v	Permanent digital "Your Speed is XX" radar speed reader signs.	1	0					
		E-4w	Overhead flashing beacon, lighted "Crosswalk" sign, half signal, or pedestrian hybrid ('hawk') signal at pedestrian crossing.	1	0					
		E-4x	Advanced warning of crosswalk with signs and yield pavement markings (white triangles).	1	0					
		E-4y	In street plastic pylon "State law - Yield to Pedestrians within Crosswalk" signs and/or pedestrian self service crosswalk flags.	1	0					
		E-4z	Use of durable cast iron detectible warning units embedded in concrete (rather than surface applied polyurethane, stamped concrete, concrete brick, etc.).	1	0					
		E-4aa	Add/replace crosswalks with high visibility, reduced wear, staggered ladder bar crosswalks (a modified Type L which avoids wheel paths, and is sometimes referred to as a 'piano key' type crosswalk).	1	0					
	E-5 Noise Abatement	E-5a	Construction of a new noise barrier.	2	0					
		E-5b	Incorporate traffic system management techniques to reduce prior noise levels (e.g. use of truck routes, progressive traffic signals, lowering speeds).	2	0					
		E-5c	Provide a buffer zone for adjacent receptors.	2	2		The trail alignment was designed to provide buffer zones from Route 299 and the adjoining residential development.			
		E-5d	Provide sound insulation to public schools.	2	0					
		E-5e	Diamond grinding of existing Portland Cement Concrete (PCC) pavement.	1	0					
		E-5f	Rehabilitation of an existing noise wall.	1	0					
		E-5g	Berms designed to reduce noise.	1	0					
	E-5h	Provide planting to improve perceived noise impacts.	1	1		A significant amount of coniferous trees were planted along the shared-use path and adjoining properties for screening and noise reduction.				
	E-6 Stray Light Reduction	E-6a	Retrofit existing light heads with full cut-offs.	2	0					
		E-6c	Use cut-offs on new light heads.	1	0					
Innovation/Unlisted (I)	Incorporation of <i>new or improved</i> ways to provide a more environmentally, economically and/or socially sustainable transportation system (subject to review by GreenLITES Review Team). <i>Up to 4 pts total.</i>									
	I-1 Innovation	I-1a		4	0					
	Incorporation of items/methods into the project which might contribute to sustainability <i>but are not specifically listed above</i> (subject to review by GreenLITES Review Team). <i>Up to 2 pts each, no total limit.</i>									
	I-2 Unlisted	I-2a		2	0					
Incorporation of items from the <u>NYCDOT Street Design Manual</u> which are not specifically covered under items listed above (list Page & Section #'s in the description). <i>Up to 3 pts total.</i>										
I-3 NYCDOT Street Design Manual	I-3a		1	0						
Total points scored:				45	Rating: 'Gold'		Subject to review by the GreenLITES Review Team.			

DESIGN SUPERVISOR B. FITZGERALD
JOB MANAGER J. GORTON
DESIGN L. BACH
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON



PROJECT LOCATION



Ulster County

ulstercountyny.gov

SHARED-USE PATH CONSTRUCTION PROJECT:
HUDSON VALLEY RAIL TRAIL WEST - PHASE 4, TOWN OF LLOYD

LOCALLY ADMINISTERED FEDERALLY FUNDED PROJECT
CONSTRUCTION PLANS

LOCATION: HUDSON VALLEY RAIL TRAIL WEST FROM
SOUTH STREET (CR 22) TO NEW PALTZ ROAD (CR 12)
TOWN OF LLOYD
ULSTER COUNTY, NEW YORK

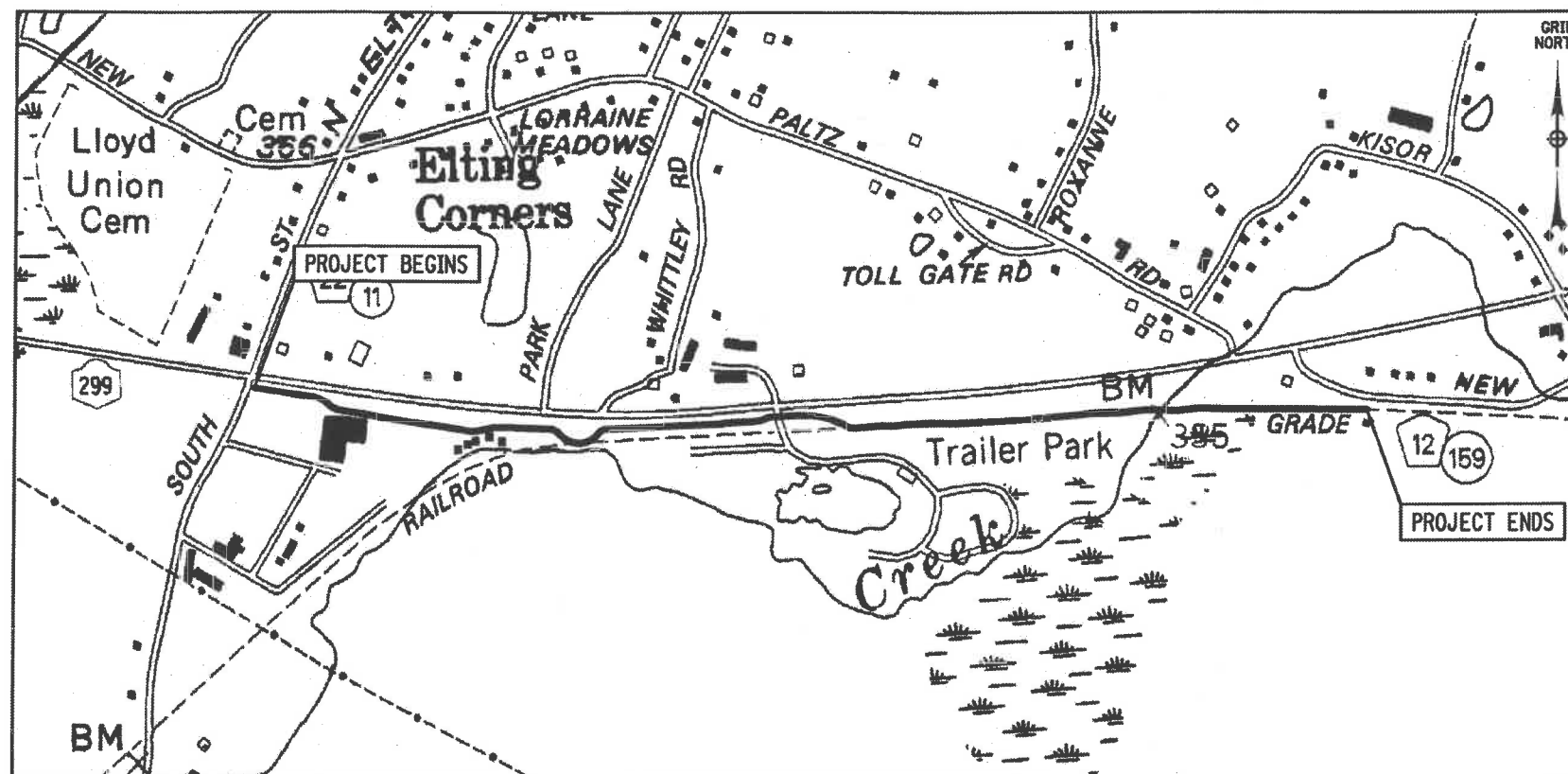
PIN 8761.21

ULSTER COUNTY

PROJECT DESCRIPTION:

THE PROJECT PROPOSES THE CONSTRUCTION OF PEDESTRIAN AND
BICYCLE FACILITIES EXTENDING THE EXISTING HVRT FROM SOUTH
STREET (CR 22) TO NEW PALTZ ROAD (CR 12) IN THE TOWN OF
LLOYD.

CONTRACTOR'S NAME _____
AWARD DATE _____
COMPLETION DATE _____
FINAL ACCEPTANCE DATE _____
REGIONAL DIRECTOR _____
ENGINEER IN CHARGE _____
FINAL COST TOTAL _____
FISCAL SHARE _____ COST(S) _____



PROJECT LOCATION

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH
ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN
EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY
ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT
TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT
DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY
WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY) REFERENCED IN THE CONTRACT
PROJECT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN
THE CONTRACT PROJECT "PROPOSAL."

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSOT POLICIES
AND GUIDELINES AND THE FINAL DESIGN REPORT APPROVED ON 09/16/2016

PREPARED BY



BRENDAN FITZGERALD
HVEA ENGINEERS
N.Y.S. P.E. #074115

HVEA
ENGINEERS

BEACON, NEW YORK 12508
(845) 838-3600
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HUDSON VALLEY RAIL TRAIL WEST
SOUTH STREET (CR 22) TO
NEW PALTZ ROAD (CR 12)

COUNTY: ULSTER

FED. ROAD REG. NO.	STATE	SHEET NO.
8	N.Y.	1

CAPITAL PROJECT
IDENTIFICATION NO. 8761.21

INDEX ON SHEET NO. 2

RECOMMENDED BY

D. Doyle
DENNIS DOYLE, DIRECTOR
ULSTER COUNTY PLANNING DEPARTMENT




11-3-17
DATE

ALIGNMENT		TOPOGRAPHY (MISCELLANEOUS)		UTILITIES	
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AH	AHEAD	ABUT	ABUTMENT	E	ELECTRIC
AZ	AZIMUTH	AOBE	AS ORDERED BY ENGINEER	EMH	ELECTRIC MANHOLE
BK	BACK	ASPH	ASPHALT	G	GAS
B	BASELINE	BDY	BOUNDARY	GP	GUY POLE
BRG	BEARING	BLDG	BUILDING	GSB	GAS SERVICE BOX (HOUSE LINE)
C	CENTERLINE	BM	BENCH MARK	GV	GAS VALVE (MAIN LINE)
CS	CURVE TO SPIRAL	CC	CENTER TO CENTER	HYD	HYDRANT
e	SUPERELEVATION RATE (CROSS SLOPE)	CONC	CONCRETE	LP	LIGHT POLE
EQ	EQUALITY	CONST	CONSTRUCTION	LPG	LOW PRESSURE GAS
EXT	EXTERNAL	CR	COUNTY ROAD	PP	POWER POLE
HCL	HORIZONTAL CONTROL LINE	D	DEED DISTANCE	SA	SANITARY SEWER
HSD	HEADLIGHT SIGHT DISTANCE	DM	DIRECT MEASUREMENT	SMH	SANITARY MANHOLE
L	LENGTH OF CIRCULAR CURVE	DWY	DRIVEWAY	ST	STORM SEWER
LS	LENGTH OF SPIRAL	EP	EDGE OF PAVEMENT	T	TELEPHONE
LVC	LENGTH OF VERTICAL CURVE	ES	EDGE OF SHOULDER	TCB	TRAFFIC CONTROL BOX
E	CENTER CORRECTION OF VERTICAL CURVE	FEE	FEE ACQUISITION	TELBOX	TELEPHONE BOX
M	MAIN LINE	FEE WO/A	FEE ACQUISITION WITHOUT ACCESS	TEL P	TELEPHONE POLE
PC	POINT OF CURVATURE	FP	FENCE POST	TMH	TELEPHONE MANHOLE
PI	POINT OF INTERSECTION	FD	FOUNDATION	CTV	CABLE TELEVISION
POL	POINT ON LINE	FL	FENCE LINE	W	WATER
PSD	PASSING SIGHT DISTANCE	GAR	GARAGE	WSB	WATER SERVICE BOX (HOUSE LINE)
PT	POINT OF TANGENT	GR	GRAVEL	WV	WATER VALVE (MAIN LINE)
PVC	POINT OF VERTICAL CURVE	HO	HOUSE	SUBSURFACE EXPLORATION	
PVI	POINT OF VERTICAL INTERSECTION	HWY	HIGHWAY		
PVT	POINT OF VERTICAL TANGENT	IP	IRON PIN OR IRON PIPE		
R	RADIUS	MB	MAILBOX	ABBR.	DESCRIPTION
SC	SPIRAL TO CURVE	MON	MONUMENT	REPLACE ABBREVIATION "AB" WITH:	
SSD	STOPPING SIGHT DISTANCE	N&W	NAIL AND WASHER	AH	HAND AUGER
ST	SPIRAL TO TANGENT	OG	ORIGINAL GROUND	CP	CONE PENTROMETER
STA	STATION	O/H	OVERHEAD	DA	2¼ INCHES CASIED DRILL HOLE
T	TANGENT LENGTH	P	PARCEL	DM	DRILLING MUD
TGL	THEORETICAL GRADE LINE	PAV'T	PAVEMENT	DN	4 INCHES CASIED DRILL HOLE
TS	TANGENT TO SPIRAL	PE	PERMANENT EASEMENT	FH	HOLLOW FLIGHT AUGER
VC	VERTICAL CURVE	PED POLE	PEDESTRIAN POLE	PA	POWER AUGER
TOPOGRAPHY (DRAINAGE)		P	PROPERTY LINE	PH	PROBE
		POR	PORCH	PT	PERCOLATION TEST HOLE
		RR	RAILROAD	RP	1 INCH SAMPLER (RETRACTABLE PLUG)
BB	BOTTOM OF BANK (STREAM)	RTE	ROUTE	TO BE DEFINED AT THE TIME OF EXPLORATION	
BC	BOTTOM OF CURB	ROW	RIGHT OF WAY	SP	SEISMIC POINT
BO	BOTTOM OF OPENING	RW	RETAINING WALL	TP	TEST PIT
CAP	CORRUGATED ALUMINUM PIPE	SH	STATE HIGHWAY	ABBREVIATION "C" IN CATEGORIES: DA, DM, DN, AND FH WITH:	
CB	CATCH BASIN	SHLDR	SHOULDER	B	BRIDGE
CIP	CAST IRON PIPE	SPK	SPIKE	C	CUT
C STRM	CENTERLINE OF STREAM	ST	STREET	D	DAM
CMP	CORRUGATED METAL PIPE	STK	STAKE	F	FILL
CP	CONCRETE PIPE	STY	STORY	K	CULVERT
CSP	CORRUGATED STEEL PIPE	SW	SIDEWALK	W	WALL
CULV	CULVERT	TE	TEMPORARY EASEMENT	X	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE
DIA	DIAMETER	TO	TEMPORARY OCCUPANCY		
DMH	DRAINAGE MANHOLE	U/G	UNDERGROUND		
DS	DRAINAGE STRUCTURE PIPE	WW	WING WALL		
D'XING	DITCH CROSSING				
EHW	EXTREME HIGH WATER				
EL	ELEVATION				
ELEV	ELEVATION				
ELW	EXTREME LOW WATER				
ES	END SECTION				
HW	HEADWALL				
INV	INVERT				
MH	MANHOLE				
MHW	MEAN HIGH WATER				
OHW	ORDINARY HIGH WATER				
OLW	ORDINARY LOW WATER				
RCP	REINFORCED CONCRETE PIPE				
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE				
TB	TOP OF BANK (STREAM)				
TC	TOP OF CURB				
TG	TOP OF GRATE				
VCP	VITRIFIED CLAY PIPE				

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
"	-	INCHES
'	LF	LINEAR FEET
m	MI	MILES
MtΔ	SF	SQUARE FEET
YDΔ	SY	SQUARE YARD
AC	AC	ACRES
YDc	CY	CUBIC YARD
GAL	GAL	GALLON
LB	LB	POUND
TON	TON	TON




AS-BUILT REVISIONS	HINDSON VALLEY RAIL TRAIL WEST - PHASE 4
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INDEX		TOTAL NUMBER OF SHEETS: 71
SHEET NUMBER	DESCRIPTION	DRAWING NUMBER
1	TITLE SHEET	COVER
2	INDEX AND ABBREVIATIONS	INDEX
3	ESTIMATE OF QUANTITIES	EQ-1
4-5	LEGEND, LINE AND POINT SYMBOLOGY	LEG-1 TO LEG-2
6	TYPICAL SECTIONS	TYP-1
7	GENERAL NOTES	GNN-1
8-9	WORK ZONE TRAFFIC CONTROL NOTES	TCN-1 TO TCN-2
10	HORIZONTAL CONTROL TABLE	HCT-1
11	BASELINE TIES	BLT-1
12	MAINTENANCE JURISDICTION PLAN	MJT-1
13	MISCELLANEOUS TABLES	MST-1
14-23	MISCELLANEOUS DETAILS	MSD-1 TO MSD-10
24	WALL PROFILE	WAL-1
25	WALL DETAILS	WAL-2
26-27	EARTHWORK SUMMARY SHEETS	ESS-1 TO ESS-2
28-29	EROSION CONTROL NOTES	ECN-1 TO ECN-2
30-41	GENERAL PLANS	GP-1 TO GP-12
42-55	PROFILE	PR-1 TO PR-14
56	SIGNS AND SIGN STRUCTURES	SDT-1
57	DRAINAGE TABLES	DRT-1
58	DRAINAGE DETAILS	DRD-1
59	STORMWATER MANAGEMENT DETAILS	SMD-01
60-71	DRAINAGE AND EROSION CONTROL PLAN	DP-1 TO DP-12

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
	COUNTY: ULSTER				REGION: 8		
					INDEX AND ABBREVIATIONS	DRAWING NO.	INDEX
						SHEET NO.	2
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					<div><div><div>BEACON, NEW YORK 12508 (845) 638-3000 www.hveapc.com</div></div><div><div>Ulster County ulstercountyny.gov</div></div><div></div></div>		

201.06	CLEARING AND GRUBBING	1	LS
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	2,118	CY
203.02020010	UNCLASSIFIED EXCAVATION AND DISPOSAL, SORTED	16	CY
203.03	EMBANKMENT IN PLACE	4,000	CY
203.07	SELECT GRANULAR FILL	350	CY
206.0201	TRENCH AND CULVERT EXCAVATION	480	CY
206.03	CONDUIT EXCAVATION AND BACKFILL INCLUDING SURFACE RESTORATIO N	65	LF
207.20	GEOTEXTILE BEDDING	80	SY
207.22	GEOTEXTILE DRAINAGE	293	SY
208.01030022	BIORETENTION AND DRY SWALE SOIL	245	CY
209.100101	MULCH - TEMPORARY	40,000	SY
209.1003	SEED AND MULCH - TEMPORARY	40,000	SY
209.13	SILT FENCE-TEMPORARY	10,280	LF
209.15200009	TEMPORARY SUMP PIT	1	EACH
209.190201	ROLLED EROSION CONTROL PRODUCT, CLASS II TYPE B,INTERMEDIATE	1,010	SY
209.22	CONSTRUCTION ENTRANCE	320	SY
304.11000008	SUBBASE COURSE (MODIFIED)	1,860	CY
402.128103	12.5 F1 TOP COURSE HMA, 80 SERIES COMPACTION	9	TON
402.258903	25 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	12	TON
402.378903	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	30	TON
520.09000010	SAW CUTTING ASPHALT CONCRETE	260	LF
553.020001	COFFERDAMS (TYPE 2)	1	EACH
553.020002	COFFERDAMS (TYPE 2)	1	EACH
553.020003	COFFERDAMS (TYPE 2)	1	EACH
553.020004	COFFERDAMS (TYPE 2)	1	EACH
554.40	FILL TYPE RETAINING WALL (0 - 6FT.)	430	SF
555.0105	CONCRETE FOR STRUCTURES, CLASS A	12	CY
555.25010010	GROUTING	180	BAG
556.0202	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES	38	LB
582.05	REMOVAL OF STRUCTURAL CONCRETE - REPLACEMENT WITH CLASS A CONCRETE	9	CY
582.06	REMOVAL OF STRUCTURAL CONCRETE - REPLACEMENT WITH CLASS D CONCRETE	80	SF
582.07	REMOVAL OF STRUCTURAL CONCRETE - REPLACEMENT WITH VERTICAL AND OVERHEAD PATCHING MATERIAL	7	SF
586.0201	DRILLING AND GROUTING BOLTS OR REINFORCEMENT BARS	12	EACH
595.50000018	SHEET-APPLIED WATERPROOFING MEMBRANE	710	SF
603.051416	CORRUGATED STEEL PIPE (2-2/3"X1/2") CORRUGATIONS) 24 INCH, 16 GAUGE	8	LF
603.171316	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X1/2" CORRUGATIONS) 21 INCH DIAMETER, 16 GAUGE	1	EACH
603.171912	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X1/2" CORRUGATIONS) 42 INCH DIAMETER, 12 GAUGE	4	EACH
603.6001	REINFORCED CONCRETE PIPE CLASS III, 12 INCH DIAMETER	520	LF
603.7301	REINFORCED CONCRETE PIPE END SECTIONS 12 INCH DIAMETER	11	EACH
603.9818	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 18 INCH DIAMETER	32	LF
603.9836	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN 36 INCH DIAMETER	132	LF
604.302122	RECTANGULAR DRAINAGE STRUCTURE TYPE U FOR #22 WELDED FRAME	14	LF
605.09020008	UNDERDRAIN FILTER TYPE 1 (MODIFIED)	69	CY
605.1101	UNDERDRAIN FILTER TYPE 3	69	CY
606.10	BOX BEAM GUIDE RAILING	126	LF
606.120102	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE I	1	EACH
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	1	EACH
606.40010011	TIMBER RAIL ON BACK SIDE OF GUIDE RAIL POSTS	126	LF
607.08030910	WOOD FENCE	1,995	LF
607.4040	OPTIONAL FENCE GATE (SINGLE LEAF 12 FEET OPENING 4 FEET HIGH)	1	EACH
607.0512	VINYL COATED STEEL CHAIN-LINK FENCE ON PLASTIC COATED FRAME WITH TOP RAIL 6 FEET HIGH	280	LF
607.60010001	STEEL AND IRON POSTS, RAILS, BRACES AND FITTINGS BICYCLE RAILING SYSTEM	325	LF
608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	25	CY
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS ,AND VEGETATION CONTROL STRIPS	2,200	TON

608.21	EMBEDDED DETECTABLE WARNING UNITS	17	SY
609.0401	CAST-IN-PLACE CONCRETE CURB TYPE VF150	10	LF
610.1101	MULCH FOR PLANTING TYPE A, B & D - WOOD CHIPS AND SHREDDED BARK	25	CY
610.1402	TOPSOIL - ROADSIDE	870	CY
610.1601	TURF ESTABLISHMENT - ROADSIDE	11,100	SY
610.17	WILDFLOWER SEEDING	650	SY
611.0191	PLANTING - MAJOR DECIDUOUS TREES - 4 INCH CALIPER BALL & BURLAP, FIELD POTTED OR FIELD BOXED	12	EACH
611.0372	PLANTING - CONIFEROUS TREES - 7 FOOT HEIGHT CONTAINER OR BOX GROWN	94	EACH
611.0542	PLANTING - EVERGREEN SHRUBS - 2 FOOT HEIGHT/SPREAD CONTAIN ER OR BOX GROWN	54	EACH
614.060104	TREE REMOVAL OVER 4 INCHES TO 6 INCHES DIAMETER BREAST HEI GHT - STUMPS GRUBBED	61	EACH
614.060204	TREE REMOVAL OVER 6 INCHES TO 12 INCHES DIAMETER BREAST HEI GHT - STUMPS GRUBBED	137	EACH
614.060304	TREE REMOVAL OVER 12 INCHES TO 18 INCHES DIAMETER BREAST HEIGHT - STUMPS GRUBBED	30	EACH
614.060404	TREE REMOVAL OVER 18 INCHES TO 24 INCHES DIAMETER BREAST HEIGHT - STUMPS GRUBBED	1	EACH
615.02050124	REMOVE, STORE AND RESET BOULDER, TYPE 01	1	EACH
615.08010005	BENCH, TYPE 01	2	EACH
615.10010108	KIOSK STRUCTURE (NOT MANUFACTURED) TYPE 1	1	EACH
619.01	BASIC WORK ZONE TRAFFIC CONTROL	1	LS
619.080101	REMOVE PAVEMENT MARKING STRIPES, TRAFFIC PAINT	430	LF
620.03	STONE FILLING (LIGHT)	40	CY
625.01	SURVEY OPERATIONS	1	LS
637.11	ENGINEER'S FIELD OFFICE - TYPE 1	8	MNTH
637.34	OFFICE TECHNOLOGY AND SUPPLIES	5,000	DC
645.5102	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF, WITH Z-BARS	160	SF
645.5202	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF, WITH Z-BARS, HIGH-VISIBILITY SHEETING	16	SF
645.81	TYPE A SIGN POSTS	36	EACH
645.81020003	RETROREFLECTIVE SIGN POST STRIP	24	EACH
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS	3	EACH
646.32	STEEL POST, 2.0 LB/FT	2	EACH
646.42	FLEXBLE DELINEATOR, DOUBLE UNIT ON FLEXBLE POST	3	EACH
647.18010108	RELOCATE COMMERCIAL SIGN	1	EACH
647.31	RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE 1 (UNDER 30 SQUARE FEET)	3	EACH
655.1122	WELDED FRAME AND RETICULINE GRATE 22	3	EACH
680.51010009	ALTER ELEVATION OF PULLBOX, TYPE 1 (RAISING ABOVE 5 INCHES)	2	EACH
680.510501	PULLBOX-RECTANGULAR, 26 X 18 INCH, REINFORCED CONCRETE	2	EACH
680.520106	CONDUIT, METAL STEEL, ZINC COATED, 2"	65	LF
685.01	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 15 MILS	780	LF
685.02	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES-15 MILS	590	LF
685.04	WHITE EPOXY REFLECTORIZED PAVEMENT SYMBOLS - 15 MILS	3	EACH
697.03	FIELD CHANGE PAYMENT	78,000	DC
699.040001	MOBILIZATION	1	LS

AFFIX SEAL: ON:		ALTERED BY: ON:											
		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		HUDSON VALLEY RAIL TRAIL WEST - PHASE 4		PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED		CONTRACT NUMBER		
									ESTIMATE OF QUANTITIES		DRAWING NO. EOQ-01		
											SHEET NO. 3		
		COUNTY: ULSTER		REGION: 8									
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									BEACON, NEW YORK 12508 (845) 638-3600 www.hvespc.com			 	

ALIGNMENT		
STYLE	NAME	DESCRIPTION
	AC	CONTROL (CENTERLINE)
	AD_P	DETOUR
	AT_P	TRANSITION CONTROL
BRIDGE		
	BR	RAIL
	BSHT	SHEET PILING
CONTROL		
	CB	BASELINE
	CBPR	BASELINE, PROJECTION
DRAINAGE		
	DCP	CULVERT PIPE
	DCP_P	CULVERT PIPE (DIR)
	DDG_P	DITCH, GRASS LINED
	DDP_P	DITCH, PAVED INVERT
	DDS_P	DITCH, STONE LINED
	DFL_P	FLOW LINE
	DSSD	SLOTTED DRAIN
	DUD_P	UNDERDRAIN
ENVIRONMENTAL		
	EBLHS	BALE, STRAW
	ECT	CURTAIN, TURBIDITY
	EDMC	DAM, COFFER
	EDMEC_P	DAM, EARTHEN CHECK
	EDMGSC_P	DAM, GRAVEL BAG/SAND BAG CHECK
	EDMPC_P	DAM, PREFABRICATED CHECK
	EDMSC_P	DAM, STONE CHECK
	EFNS	FENCE, SILT
	EFNSV	FENCE, SILT & VEGETATION
	EFNV	FENCE, VEGETATION
	EWAA_P	WETLAND, ADJACENT AREA
	EWF	WETLAND, FEDERAL
	EWFS	WETLAND, FEDERAL AND STATE
	EWM	WETLAND, MITIGATION AREA
	EWS	WETLAND, STATE

1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).
2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).
3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS).
5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.
6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

LANDSCAPE		
STYLE	NAME	DESCRIPTION
	LABL	AREA, BRUSH LINE
	LAHR	AREA, HEDGE ROW
	LAPB	AREA, PLANTING BED
	LAWA	AREA, WOODED AREA OUTLINE
	LAWL	AREA, WATERS EDGE
	LCUT_P	CUT LIMIT
	LFILL_P	FILL LIMIT
	LFNC	FENCE
	LTRC	TREE ROW, CONIFEROUS
	LTRD	TREE ROW, DECIDUOUS
	LWH	WALL, H PILE
	LWR	WALL, RETAINING
	LWS	WALL, STONE
ROW MAPPING		
	MDL	DEED LINE
	MEE	EASEMENT, EXISTING
	MEP_P	EASEMENT, PERMANENT
	MEPA_P	EASEMENT, PERMANENT, APPROX.
	MET_P	EASEMENT, TEMPORARY
	META_P	EASEMENT, TEMPORARY, APPROX.
	MF_P	FEE ACQUISITION, W/ ACCESS
	MFA_P	FEE ACQUISITION, APPROXIMATE
	MFS_P	FEE ACQUISITION, SHAPE
	MFWOA_P	FEE ACQUISITION, W/O ACCESS
	MHA	HISTORICAL, ACQUISITION
	MHB	HIGHWAY BOUNDARY
	MHBA	HIGHWAY BOUNDARY, APPROX.
	MHBW	HWY BOUNDARY, FACE OF WALL
	MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS
	MJC	JURISDICTION, CITY
	MJCY	JURISDICTION, COUNTY
	MJHD	JURISDICTION, HISTORIC DISTRICT
	MJLL	JURIS., (GREAT, MILITARY) LOT LINE
	MJN	JURISDICTION, NATION
	MJPB	JURISDICTION, PUBLIC LANDS
	MJS	JURISDICTION, STATE
	MJT	JURISDICTION, TOWN
	MJV	JURISDICTION, VILLAGE
	MPL	PROPERTY LOT LINE
	MPLA	PROPERTY LOT LINE, APPROXIMATE
	MSL	SUB LOT LINE

ROADWAY		
STYLE	NAME	DESCRIPTION
	RCZ_P	CLEAR ZONE
	RG	GUIDE RAIL, MISCELLANEOUS
	RGB	GUIDE RAIL, BOX BEAM
	RGBM	GUIDE RAIL, BOX BEAM, MEDIAN
	RGC	GUIDE RAIL, CABLE
	RCCB	GUIDE RAIL, CONCRETE BARRIER
	RGP_P	GUIDE POST
	RGW	GUIDE RAIL, W BEAM
	RGWM	GUIDE RAIL, W BEAM, MEDIAN
	RPB	PARKING BUMPER
	RRC	RAIL ROAD, CATENARY
	RRER	RAIL ROAD, 3RD RAIL
	RRPLS_P	RAIL, PHOTO, LARGE SCALE
	RRPSS	RAIL, PHOTO, SMALL SCALE
	RRS	RUMBLE STRIP
	RRSLS_P	RAIL, SURVEY, LARGE SCALE
	RRSSS	RAIL, SURVEY, SMALL SCALE
SIGNS		
	SBLB	BILLBOARDS
	SM	MULTIPLE POST
	SSO	STRUCTURE, OVERHEAD
	SSOC	STRUCTURE, OVHD. CANTILEVER
STRIPING		
	STB*	BROKEN LINE
	STDB*	DOUBLE BROKEN LINE
	STDLD*	DOTTED LINE LONG
	STDS*	DOTTED LINE SHORT
	STFB*	FULL BARRIER LINE
	STH*	HATCH LINE
	STPB*	PARTIAL BARRIER LINE
	STRCT	ROUNDABOUT, CAT TRACKS
	STRYL	ROUNDABOUT, YIELD LINE
	STSB	STOP BAR
	STSE*	SOLID, EDGE
	STXL	X WALK, LADDER LINE
	STXLB	X WALK, LADDER BAR LINE
* = W (WHITE) OR Y (YELLOW)		
TRAFFIC CONTROL		
	TCSW	SIGNAL, SPAN WIRE

TRAFFIC WORK ZONE		
STYLE	NAME	DESCRIPTION
	TWZBT_P	BARRIER, TEMPORARY
	TWZBTWL_P	BARRIER, TEMPORARY, W/ WARNING LIGHTS
	TWZCD_P	CHANNELIZING DEVICE
	TWZPMRC_P	PAVEMENT MARKING REMOVAL OR COVERING
UTILITIES		
	UC	CONDUIT, UNDERGROUND
	UCH	CONDUIT, HANGING
	UCO	CONDUIT, OVERHEAD
	UE	ELECTRIC LINE, UNDERGROUND
	UEH	ELECTRIC LINE, HANGING
	UEO	ELECTRIC LINE, OVERHEAD
	UETO	ELECTRIC TRANSMISSION, OVERHEAD
	UESS	ELECTRIC, SUBSTATIONS
	UFO	FIBER OPTIC, UNDERGROUND
	UFOH	FIBER OPTIC, HANGING
	UFOO	FIBER OPTIC, OVERHEAD
	UG	GAS, UNDERGROUND
	UGH	GAS, HANGING
	UGO	GAS, OVERHEAD
	UIC	INFORM CABLE, UNDERGROUND
	UICH	INFORM CABLE, HANGING
	UO	OIL LINE, UNDERGROUND
	UOH	OIL LINE, HANGING
	UPBP	POLE, BRACE, PUSH BRACE
	UPGW	POLE, GUY WIRE
	USA	SANITARY SEWER, UNDERGROUND
	USAH	SANITARY SEWER, HANGING
	USAF	SANITARY SEWER, FORCE MAIN, UGND
	USAFH	SANITARY SEWER, FORCE MAIN, HANG
	UT	TELEPHONE, UNDERGROUND
	UTH	TELEPHONE, HANGING
	UTO	TELEPHONE, OVERHEAD
	UTV	CABLE TV, UNDERGROUND
	UTVH	CABLE TV, HANGING
	UTVO	CABLE TV, OVERHEAD
	UUU	UNKNOWN, UNDERGROUND
	UUH	UNKNOWN, HANGING
	UUO	UNKNOWN, OVERHEAD
	UW	WATER LINE, UNDERGROUND
	UWH	WATER LINE, HANGING
	UWO	WATER LINE, OVERHEAD

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4

PIN 8761.21

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

LEGEND

DRAWING NO. LEG-1

SHEET NO. 4

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



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ALIGNMENT			DRAINAGE			ITS			ROW MAPPING			SIGNS			UTILITIES		
CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION
	ACC	CENTER OF CURVATURE		DINV	INVERT		IANT P	ANTENNAS		MDL1P	DEED LINE, TYPE 1		S	SINGLE POST		UEB	ELECTRIC, BOX
	ACOGO	COGO		DS	STRUCTURE, RECTANGULAR		IASCTS	ACCOU. SPEED/COUNT SNSR.S		MDL2P	DEED LINE, TYPE 2		S.P	SINGLE POST, PROPOSED		UEM	ELECTRIC, METER
	ACS	CURVE TO SPIRAL		DSI	STRUCTURE, INVERT		ICABPAD	CABINET & PAD		MDL3P	DEED LINE, TYPE 3		SB.P	BACK TO BACK, PROPOSED		UEMH	ELECTRIC, MANHOLE
	ADPL.P	DETOUR, POINT OF INTERSECT.		DSM	STRUCTURE, MANHOLE		ICCTV	CCTV SITE		MDL4P	DEED LINE, TYPE 4		SDEL	DELINEATORS		UEPT	ELECTRIC, POLE, TRANS.
	ADPL.P	DETOUR, POINT ON LINE		DSMTXX.P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 96		ICDPD	CDPD TRANSCEIVER		MDL5P	DEED LINE, TYPE 5		SPM	PARKING METER		UGM	GAS, METER
	AEQN	EQUATION		DSR	STRUCTURE, ROUND		ICELLT	CELL PHONE TOWER		MEEP	EASEMENT, EXISTING		SRM	REFERENCE MARKERS		UGMH	GAS, MANHOLE
	AEQNAHD	EQUATION AHEAD		DST"X"CB.P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R		ICJB	CONDUIT JACK OR BORING		MEPAP.P	EASEMENT, PERM., APPROX.		SRSC3	SHLD, CTY, 123 DIG.		UGLM	GAS, LINE MARKER
	AEQNBK	EQUATION BACK		DST"X" P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U		ICNTLCAB	CONTROLLER CABINET		MEPP.P	EASEMENT, PERM., BACK LINE		SRSC4	SHLD, CTY, 4 DIG.		UGP	GAS/FUEL PUMP
	AEVT	EVENT STATION	ENVIRONMENTAL				ICPB	COMMUNICATION PULL BOX		MEPSP.P	EASEMENT, PERM., SHAPE		SRSCT2	SHLD, CTY TOUR, 1-2 DIG.		UGV	GAS, VALVE
	APC	POINT OF CURVATURE					ICTD	CONDUIT TURNING DOWN		MFAP.P	FEE ACQUISITION, APPROX.		SRSCT4	SHLD, CTY TOUR, 3-4 DIG.		UGVT	GAS, VENT
	APCC	POINT OF COMPOUND CURVATURE	ENVIRONMENTAL				ICTU	CONDUIT TURNING UP		MFP.P	FEE ACQUISITION, BACK LINE		SRS1	SHLD, INTERSTATE		ULP	LIGHTING, POLE
	API	POINT OF INTERSECTION					ICVTRT	COMM. VEH. ROAD TRANSCEIVER		MFSP.P	FEE ACQUISITION, SHAPE		SRSN2	SHLD, NATIONAL, 2 DIG.		ULPM	LIGHTING, POLE, MEDIAN
	APOB	POINT OF BEGINNING		IDEFAULT	DEFAULT		MHBAP	HIGHWAY BNDRY., APPROX.		SRSN3	SHLD, NATIONAL, 3 DIG.		ULPP	LIGHTING, POLE, PED.			
	APOC	POINT OF CURVATURE		IEZR	E-ZPASS READER		MHBCP	HISTORICAL, BLDG. CORNERS		SRSS2	SHLD, STATE, 2 DIG.		UMFC	MISC. FILLER CAP			
	APOE	POINT OF END		IEZTR	TRANSMITTAL READER		MHBP	HIGHWAY BNDRY, PT.		SRSS3	SHLD, STATE, 3 DIG.		UOLM	OIL, LINE MARKER			
	APOL	POINT ON LINE		IFXCAB	FIBER OPTIC X-CONNECT CABINET		MJCP	PT., JURIS. CITY		SRSS4	SHLD, STATE, 4 DIG.		UP	POLE, WITH UTILITY			
	APOS	POINT ON SPIRAL		IFUSSPL	FUSION SPLICE		MPBC	PT., BUILDING CORNER	TRAFFIC CONTROL				UPD	POLE, DEAD (NO UTILITY)			
	APOT	POINT ON TANGENT		IHARADV	HAR ADVISORY SIGN		MPCC	PT., CROSS CUT					UPL	POLE, WITH LIGHT			
	APOVC	POINT ON VERTICAL CURVE		IHARST	HAR SITE		MPDH	PT., DRILL HOLE		USMH	SANITARY SEWER MANHOLE						
	APOVT	POINT ON VERTICAL TANGENT		ILC	LOAD CENTER		MPF	PT., FENCE LOCATION		UTB	TELEPHONE, BOOTH						
	APORC	POINT ON REVERSE CURVE		IMECSPL	MECHANICAL SPLICE		MPPF	PT., FENCE LOCATION		UTLM	TELEPHONE, LINE MARKER						
	APT	POINT OF TANGENCY		IMSCS	PORT. SPEED & COUNT SENSOR		MPIP	PT., IRON PIPE		UTMH	TELEPHONE, MANHOLE						
	APVC	POINT OF VERTICAL CURVATURE		IMSCTS	MICRO SPEED & COUNT SENSOR		MPM	PT., MONUMENT		UTVLM	CABLE TV, LINE MARKER						
	APVCC	POINT OF VERT. CMPND CURVE		IMT	MICROWAVE TRANSCEIVER		MPMM	PT., MONUMENT, MISC.		UTVPB	CABLE TV, PULL BOX						
	APVI	POINT OF VERT. INTERSECTION		IOVHVS	PERM. OVERHEAD VMS		MPN	PT., NAIL		UUB	UNKNOWN, BOX						
	APVRC	POINT OF VERT. REVERSE CURVE		IPASCS	PORT. ACCOU. SPD & CNT. SENSOR		MPRS	PT., RAILROAD SPIKE	TRAFFIC WORK ZONE				UUMB	UNKNOWN, MANHOLE			
	APVT	POINT OF VERTICAL TANGENCY		IPEDS	PEDESTRIAN SIGNAL HEAD		MPSP	PT., SPIKE					UUPB	UNKNOWN, PULL BOX			
	ASC	SPIRAL TO CURVE		IPSS	PAVEMENT SURFACE SENSOR		MPTW	PT., STAKE		TWZAP.P	ARROW PANEL		UUVL	UNKNOWN, VALVE			
	ASPI	SPIRAL POINT OF INTERSECTION		IPVMS	PERM. VMS		MPSW	PT., WALL LOCATION		TWZAPT.P	ARROW PANEL, TRAILER OR SUPPORT		UUVT	UNKNOWN, VENT			
	ASTS	SPIRAL TO SPIRAL	LANDSCAPE				IRM	RAMP METER	ROW ACQUISITION				TWZBCD.P	BARRICADE (TYPE III)		UJW	UNKNOWN, WELL
	AST	SPIRAL TO TANGENT					IRWIS	RDWY WEATHER INFO. SENSOR					MFS.P.T	FEE ACQUISITION		TWZFLG.P	FLAGGER
	ATS	TANGENT TO SPIRAL		ISPVMS	PERM. VMS		MEPS.P.T	EASEMENT, PERMANENT		TWZFT.P	FLAG TREE						
	AVEVT	VERTICAL EVENT POINT		ISST	SPREAD SPECT. TRANSCEIVER		METS.P.T	EASEMENT, TEMPORARY		TWZIA.P	IMPACT ATTENUATOR / CRASH CUSHION (TEMPORARY)						
	AVHIGH	VERTICAL HIGH POINT		ITDB	TELEPHONE DEMARCATION BLK		METS.P.T	EASEMENT, TEMPORARY		TWZLUM.P	LUMINAIRE (TEMPORARY)						
	AVLOW	VERTICAL LOW POINT		ITP	SUBSURFACE TEMP. PROBE		METS.P.T	OCCUPANCY, TEMPORARY		TWZSDT.P	SYMBOL, DIRECTION OF TRAFFIC						
BRIDGE				IVTRT	VEHICLE TO RDWY TRANSCEIVER		MFS.P.T	FEE ACQUISITION W/O ACCESS		TWZSDTD.P	SYMBOL, DIRECTION OF TEMPORARY TRAFFIC DETOUR	<div>1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).</div> <div>2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).</div> <div>3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.</div> <div>4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS).</div> <div>5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.</div> <div>6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.</div>					
				IWIND	WEIGHT IN MOTION DETECTOR		MFS.P.T	FEE ACQUISITION W/O ACCESS		TWZSGN.P	SIGN (TEMPORARY)						
CONTROL				IWVR	WIRELESS VIDEO REPEATER		TWZSIG.P	SIGNAL, TRAFFIC OR PEDESTRIAN (TEMPORARY)									
				IWVRC	WIRELESS VIDEO RECEIVER		TWZWL.P	WARNING LIGHT									
	CBP	BASELINE, POINT		IWVTT	WIRELESS VIDEO TRANSMITTER		TWZWV.P	WORK VEHICLE									
	CBPOL	BASELINE, POINT ON LINE	UTILITIES				RGA	GUIDE RAIL, ANCHOR		TWZWVA.P	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR						
	CBSP	BASELINE, SPUR POINT				ITS			ROW MAPPING			SIGNS			UTILITIES		
	CBTP	BASELINE, TIE POINT															
	CPBM	BENCHMARK	UTILITIES			ITS			ROW MAPPING			SIGNS			UTILITIES		
	CPH	POINT, HORIZ. PHOTOGRAMMETRY															
	CPSM	POINT, SURVEY MARKER, PERM.	UTILITIES			ITS			ROW MAPPING			SIGNS			UTILITIES		
	CPSV	POINT, VERT., PHOTOGRAMMETRY															

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4

PIN 8761.21

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

COUNTY: ULSTER

REGION: 8

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

LEGEND

DRAWING NO. LEG-2

SHEET NO. 5

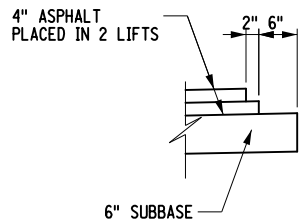
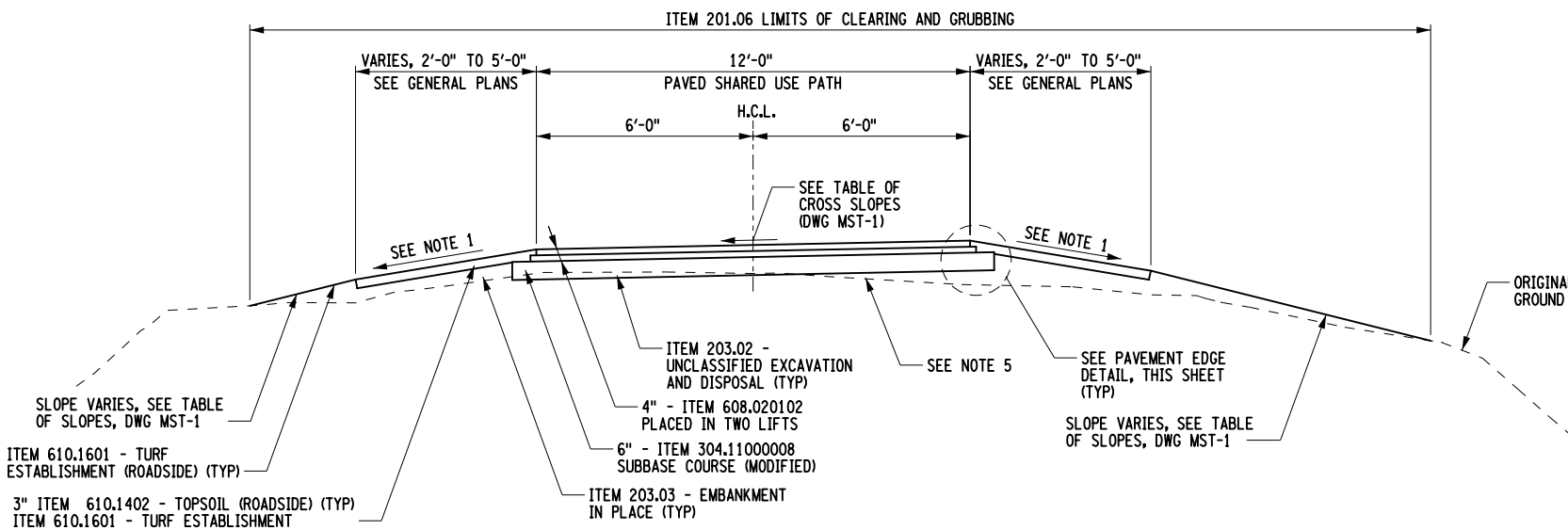
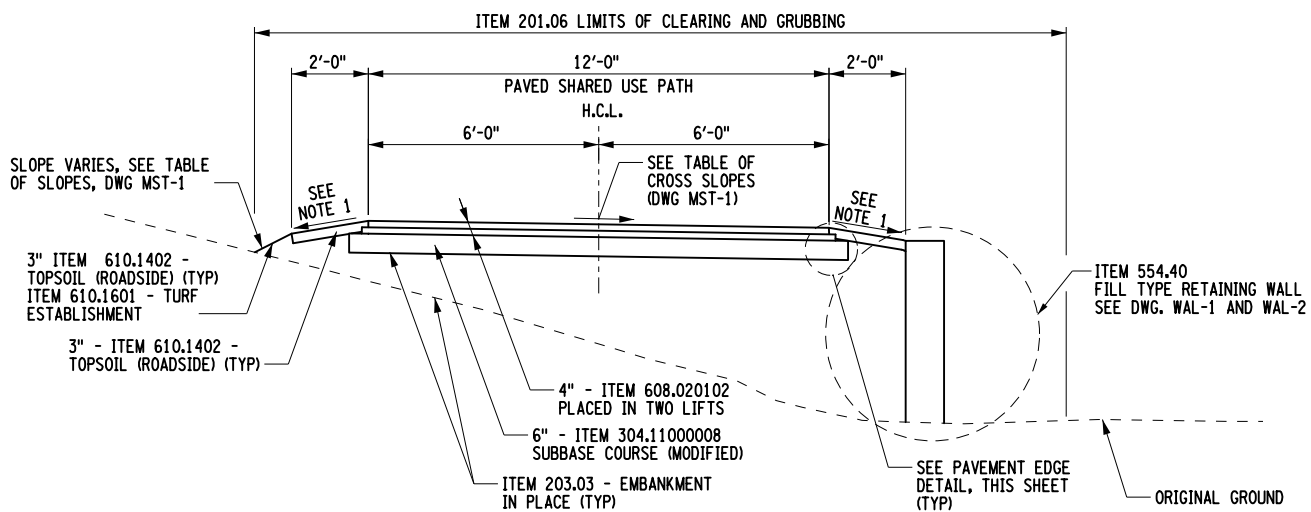
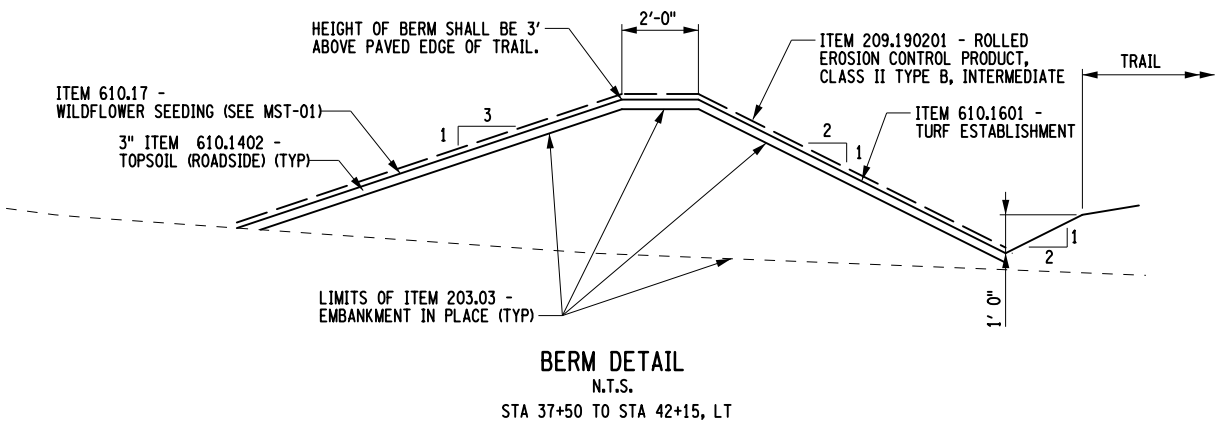
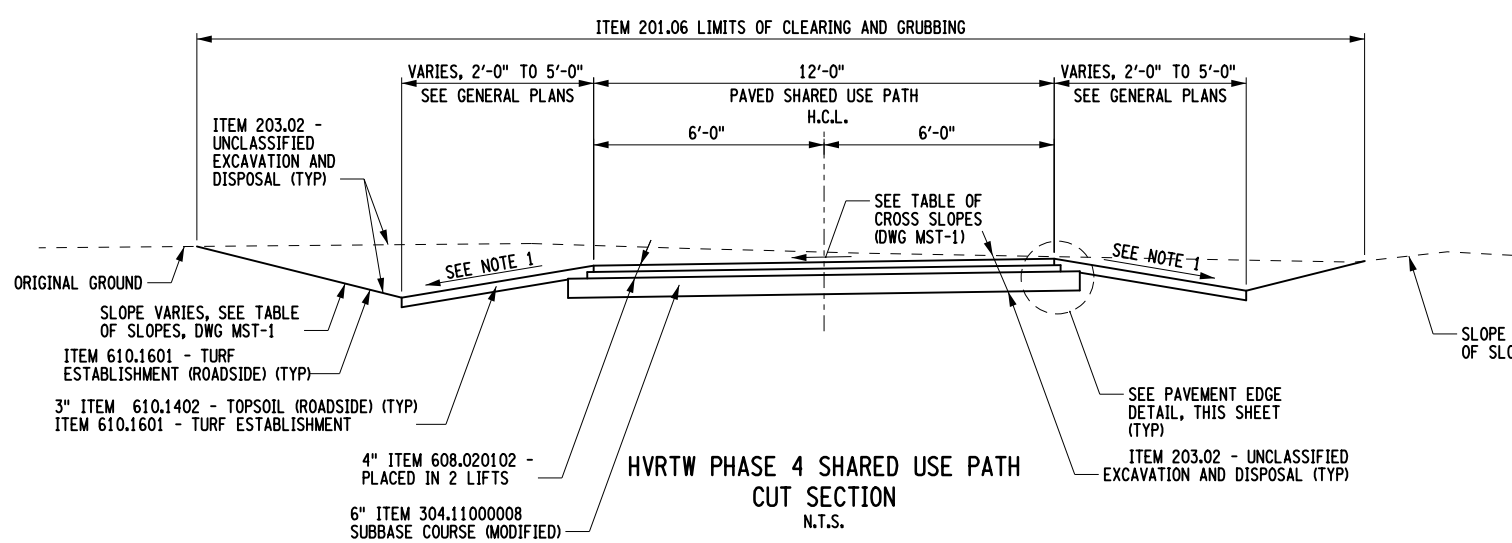
HVEA ENGINEERS

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ulstercountyny.gov

FILE NAME = 876121.oph-typ-01.dgn
DATE/TIME = 20-DEC-2017 09:57
USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD
JOB MANAGER J. GORTON
DESIGN L. BACH
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON



PAVEMENT EDGE DETAIL
N.T.S.

HVRTW PHASE 4 SHARED USE PATH
WALL SECTION
STA 45+90 TO STA 47+00

HVRTW PHASE 4 SHARED USE PATH
FILL SECTION
N.T.S.

ITEM	DESCRIPTION	UNIT	ITEM	DESCRIPTION	UNIT	NOTES:
201.06	CLEARING AND GRUBBING	LS				1. THE SLOPE OF THE GRADED AREA ADJACENT TO THE PROPOSED SHARED-USE TRAIL SHALL NEVER BE STEEPER THAN A 1 ON 6 SLOPE, OR BE LESS THAN 1.5%. THE DESIGN INTENTION IS TO MINIMIZE CUTS AND FILLS AND PROMOTE POSITIVE DRAINAGE. SEE TABLE OF SHOULDER SLOPES.
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY				2. CLEARING AND GRUBBING LIMITS SHALL NOT BE LESS THAN 5' FROM THE EDGE OF TRAIL AND AT LEAST 3' FROM ANY SIGN. LIMITS SHALL BE APPROVED BY THE EIC AFTER TRAIL ALIGNMENT STAKE OUT AND BEFORE CLEARING STARTS.
203.03	EMBANKMENT IN PLACE	CY				3. MINOR REVISIONS TO THE SHARED-USE TRAIL HORIZONTAL AND VERTICAL ALIGNMENT ARE PERMITTED AS APPROVED BY THE ENGINEER. SEE GENERAL NOTE 5, DWG. GN-1.
209.190201	ROLLED EROSION CONTROL PRODUCT, CLASS II TYPE B, INTERMEDIATE	SY				4. EXCESS MATERIAL STRIPPED FROM THE TRAIL CAN BE USED AS TOPSOIL BUT MUST FIRST BE APPROVED BY THE EIC.
304.11000008	SUBBASE COURSE (MODIFIED)	CY				5. IN AREAS WHERE THE TRAIL IS LOCATED ON THE EXISTING RAIL BED, THE CONTRACTOR SHALL REMOVE APPROXIMATELY 2" OF ORGANIC MATERIAL TO EXPOSE THE EXISTING BALLAST PRIOR TO PLACING SUBBASE. COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 304.11000008.
554.40	FILL TYPE RETAINING WALL (0 - 6FT.)	SF				
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS, AND VEGETATION CONTROL STRIPS	TON				
610.1402	TOPSOIL (ROADSIDE)	CY				
610.1601	TURF ESTABLISHMENT (ROADSIDE)	SY				
610.17	WILDFLOWER SEEDING	SY				

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
COUNTY: ULSTER	REGION: 8					

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GENERAL NOTES:

CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS,
CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
OFFICE OF ENGINEERING WITH CURRENT ADDITIONS AND MODIFICATIONS.

1. THE CONTRACTOR IS TO VISIT THE SITE BEFORE BIDDING TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO JUDGE FOR HIMSELF THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR BECAUSE OF THE CONTRACTOR'S FAILURE TO INCLUDE IN HIS BID ALL ITEMS AND MATERIALS WHICH HE IS REQUIRED TO FURNISH IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS ADVISED THAT HE MUST HAVE IN HIS POSSESSION, A SET OF CONTRACT PLANS/PROPOSAL FOR IDENTIFICATION PURPOSES WHEN CONDUCTING THIS SITE VISIT.
2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
3. THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD, ALL CONDITIONS AND DIMENSIONS. DIMENSIONS OF THE EXISTING STRUCTURES SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS AND LIMITED FIELD SURVEY AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL SUCH FIELD MEASUREMENTS TO ASSURE PROPER FIT OF THE FINISHED WORK, AND THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS AS APPROVED BY THE ENGINEER. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS MADE SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR REFERENCE OF THE REVIEWER.
4. THE CONTRACTOR SHOULD NOTE THAT ADDITIONAL WORK MAY BE REQUIRED AS THE CONTRACT PROGRESSES, WHICH IS NOT SHOWN OR NOTED ON THE PLANS. THIS WORK SHALL BE PERFORMED BY THE CONTRACTOR AS ORDERED BY THE ENGINEER, AND PAID IN ACCORDANCE WITH SECTION 109-05 OF THE SPECIFICATIONS.
5. WORK PERTAINING TO MODIFICATIONS, AS MAY BE REQUIRED, DUE TO ANY DIFFERENCE BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DIMENSIONS ON THE CONTRACT PLANS, WILL BE PAID AT THE UNIT BID PRICE FOR THE ACTUAL QUANTITIES OF MATERIALS USED OR FOR THE WORK PERFORMED, AS INDICATED BY THE VARIOUS ITEMS IN THE CONTRACT.
6. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING FACILITY CAUSED BY HIS OPERATIONS WHICH IS NOT INCLUDED AS PART OF THE INTENDED WORK. ALL DAMAGE TO THE EXISTING FACILITY WHICH IS NOT PART OF THE INTENDED WORK SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT COST TO THE COUNTY, AND TO THE SATISFACTION OF THE ENGINEER.
7. THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES NOT SPECIFICALLY CALLED OUT TO BE REMOVED ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR WILL PROTECT EXISTING PROPERTY LINE ORNAMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.

9. THE SHARED-USE TRAIL ALIGNMENT SHOWN REPRESENTS THE APPROXIMATE DESIRED LOCATION OF THE PROPOSED SHARED-USE TRAIL. THE CONTRACTOR SHALL LAYOUT THE SHARED-USE TRAIL TO FOLLOW THE GIVEN ALIGNMENTS. MINOR MODIFICATIONS HORIZONTALLY AND/OR VERTICALLY WILL BE PERMITTED AS APPROVED BY THE ENGINEER. ONCE THE SHARED-USE TRAIL LAYOUT IS COMPLETED THE CONTRACTOR SHALL COORDINATE A MEETING WITH THE ENGINEER FOR THE APPROVAL OF THE ALIGNMENT PRIOR TO THE BEGINNING OF ANY WORK OR THE ORDERING OF MATERIALS.

10. THE FOLLOWING GUIDELINES ALONG WITH THE TYPICAL SECTIONS SHALL BE USED WHEN ADJUSTING ANY ALIGNMENTS AND/OR WHILE CONSTRUCTING THE PROPOSED FACILITY:
- A. THE PROPOSED ASPHALT SHARED-USE TRAIL ALIGNMENTS SHALL NOT EXCEED A 1.5% LONGITUDINAL GRADE AND SHALL HAVE BETWEEN A 1.5% AND 2% TRANSVERSE CROSS-SLOPE. THE MINIMUM WIDTH OF THE ASPHALT SHARED-USE TRAIL SHALL BE 12' EXCEPT WHERE SHOWN IN TYPICAL SECTIONS. THE GRADED AREA ADJACENT TO THE ASPHALT SHARED-USE TRAIL SHALL BE A MINIMUM OF 2' WIDE AND CONTAIN A MAXIMUM TRANSVERSE CROSS-SLOPE OF 16.7% AND A MINIMUM TRANSVERSE CROSS-SLOPE OF 1.5%. THE INTENTION OF THE DESIGN IS TO PROVIDE THE FLATTEST SLOPE POSSIBLE FOR THE GRADED AREA ADJACENT TO THE SHARED-USE TRAIL. ALL SLOPES ADJACENT TO THE GRADED AREA SHALL BE A MAXIMUM OF 1V ON 2H. THE MINIMUM LATERAL SHIFT IN THE ASPHALT TREAD SHALL BE 1:20 EXCEPT AS SHOWN ON PLANS. THE MINIMUM RADIUS FOR CURVES SHALL BE 75'.
- B. IF ANY CHANGES TO THE ABOVE GUIDELINES AND/OR TYPICAL SECTIONS FOR THE PROPOSED SHARED-USE TRAIL ARE CONSIDERED THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE ENGINEER PRIOR TO COMPLETING ANY WORK OR ORDERING OF MATERIALS.
11. LOCATION OF PUBLIC AND/OR PRIVATE UTILITIES, INDICATED AS EXISTING AND/OR TO BE CONSTRUCTED AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OPERATIONS AND TAKE THE NECESSARY PRECAUTIONS TO PREVENT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION.
12. IN THE EVENT THAT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CEASE HIS WORK OPERATION UNTIL SERVICE IS RESTORED.
13. THE METHOD OF EXCAVATION AND/OR DEMOLITION IN THE IMMEDIATE VICINITY OF UNDERGROUND UTILITIES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. HAND DIGGING MAY BE REQUIRED.
14. THE CONTRACTOR SHALL PROTECT HIS WORKERS AT ALL TIMES IN CONFORMANCE WITH APPLICABLE OSHA REGULATIONS.
15. PROTECTION OF THE PUBLIC: THE CONTRACTOR SHALL MAINTAIN AND PROTECT TRAFFIC IN ACCORDANCE WITH ITEM 619.01, THE TRAFFIC CONTROL NOTES INCLUDED ON THE PLANS, AND THE PERTINENT SECTIONS OF THE FEDERAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION) WITH APPROPRIATE NEW YORK STATE DEPARTMENT OF TRANSPORTATION SUPPLEMENT. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SECTION 107, LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC, OF THE STANDARD SPECIFICATIONS, INCLUDING CURRENT ADDITIONS AND MODIFICATIONS.
16. THE CONTRACTOR IS ADVISED THAT ADDITIONAL NOTES WILL BE FOUND ON SUBSEQUENT SHEETS OF THE CONTRACT PLANS AND SUCH NOTES, WHILE PERTAINING TO THE SPECIFIC SHEETS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES USED HEREIN.
17. THE HORIZONTAL COORDINATE SYSTEM IS BASED ON NEW YORK STATE PLANE.
- 18a. ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF- WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIER.
- 18b. IF THE CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN THE CONTRACTOR CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE PROJECT ENGINEER FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS (STANDARD SPECIFICATIONS SECTIONS 105-10 AND 625).
- 18c. IN ACCORDANCE WITH SECTION 107-10 OF THE STANDARD SPECIFICATIONS, RELEASES FOR ANY NON-ESSENTIAL CONTRACT WORK OUTSIDE OF THE EXISTING RIGHTS-OF-WAY, INCLUDING PLANTINGS, LANDSCAPING OR DRIVEWAY ENHANCEMENT, WILL BE PROVIDED BY THE PROJECT ENGINEER AND IN NO INSTANCE ARE TO BE SECURED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT INVADE UPON PRIVATE PROPERTIES, LANDS OR BUILDINGS OUTSIDE OF THE RIGHTS-OF-WAY FOR ANY REASON WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE PROPERTY OWNER (STANDARD SPECIFICATIONS SECTIONS 105-15, 107-10).
- 18d. THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORILY REPAIRED OR ITEMS REPLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08 AND 107-13).
19. ANY SILT FENCE AND VEGETATION PROTECTION BARRIER SHOWN BEYOND THE HIGHWAY BOUNDARY IS FOR PLAN CLARITY ONLY. ALL SILT FENCE AND VEGETATION PROTECTION BARRIER WILL BE PLACED WITHIN THE HIGHWAY BOUNDARY.

20. ALL EXCESS EXCAVATED MATERIAL FROM WITHIN THE RAIL TRAIL RIGHT-OF-WAY IS DEEMED A REGULATED MATERIAL AS PER THE NYSDEC AND SHALL NOT BE REMOVED FROM THE RAIL TRAIL RIGHT-OF-WAY. THIS MATERIAL IS NOT CONSIDERED HAZARDOUS, AND SPECIAL HANDLING PROVISIONS WILL NOT BE REQUIRED.

SUITABLE LOCATIONS CAN BE USED AS EMBANKMENT IN PLACE. LOCATIONS FOR DISPOSING THE EXCESS EXCAVATED MATERIAL NOT USED AS FILL SHALL BE APPROVED BY THE ENGINEER.

THE COST OF TRANSPORTIN THIS MATERIAL TO SUITABLE DISPOSAL SITES AS DIRECTED BY THE ENGINEER SHALL BE INCLUDED WITHIN THE BID PRICE FOR ITEM 203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL. NO ADDITIONAL PAYMENTS FOR EXCAVATING, TRANSPORTING, STOCKPILING OR PROCESSING THE MATERIAL SHALL BE MADE. NO SPECIAL TREATMENT OF THE SOIL WILL BE NECESSARY OTHER THAN THE REQUIREMENTS OF SECTION 209 OF THE NYSDOT STANDARD SPECIFICATIONS.

BASED ON FIELD OBSERVATIONS, THERE ARE APPROXIMATELY 75 RAILROAD TIES THROUGHOUT THE LENGTH OF THIS PROJECT. WOOD TREATED WITH CREOSOTE, SUCH AS RAILROAD TIES, MUST BE DISPOSED OF AS HOUSEHOLD WASTE, OR AS CONSTRUCTION AND DEMOLITION (C&D) DEBRIS IN A PERMITTED C&D DEBRIS LANDFILL, OR BURNED IN A PERMITTED MUNICIPAL SOLID WASTE OR HAZARDOUS WASTE COMBUSTION FACILITY. THESE TIES SHALL BE REMOVED FROM THE SITE AND WILL BE PAID FOR UNDER ITEM 203.02020010. THE COST OF TRANSPORTING THIS MATERIAL TO SUITABLE DISPOSAL SITES SHALL BE INCLUDED WITHIN THE BID PRICE FOR ITEM 203.02020010. NO ADDITIONAL PAYMENT FOR EXCAVATING, TRANSPORTING, STOCKPILING OR PROCESSING THE MATERIAL SHALL BE MADE.

21. ENDANGERED SPECIES NOTES:

TREE PROTECTION FOR ENDANGERED SPECIES

THE AREA BENEATH THE DRIP LINE OF ALL TREES WITH A TRUNK DIAMETER OF 3 INCHES OR GREATER LOCATED OUTSIDE OF THE PROJECT CLEARING LIMITS OR IN PROXIMITY TO STAGING AND STOCKPILING AREAS SHALL NOT BE DISTURBED. DISTURBANCE INCLUDES REMOVING TREES, STOCKPILING MATERIAL, STORING EQUIPMENT, OR DRIVING AND PARKING VEHICLES BENEATH THE DRIP LINE OF TREES. ADDITIONAL TREES REQUIRING PROTECTION MAY BE DESIGNATED BY THE ENGINEER-IN-CHARGE (EIC). THE CONTRACTOR SHALL SUBMIT A PLAN TO THE EIC FOR APPROVAL SHOWING THE PROPOSED STAGING, STORAGE AND STOCKPILE AREAS FOR EACH SITE PRIOR TO PLACEMENT OF ANY EQUIPMENT OR MATERIALS AT THE SUBJECT AREA.

22. TREE REMOVAL PROHIBITION

REMOVAL OF TREES NOT SPECIFIED FOR REMOVAL WITH A TRUNK DIAMETER OF 3 INCHES OR GREATER IS PROHIBITED, UNLESS COORDINATED AND APPROVED BY THE ENGINEER-IN-CHARGE.

23. TIME OF YEAR CUTTING RESTRICTIONS FOR INDIANA BAT AND NORTHERN LONG-EARED BAT.

IN ORDER TO PREVENT ANY DIRECT TAKINGS OF INDIANA BAT (MYOTIS SODALIS), A FEDERAL AND STATE LISTED ENDANGERED SPECIES AND NORTHERN LONG-EARED BAT (MYOTIS SEPTENTRIONALIS), A FEDERAL AND STATE LISTED THREATENED SPECIES, THE CONTRACTOR'S ATTENTION IS HEREBY DIRECTED TO THE FACT THAT TREE CUTTING SHALL ONLY BE PERFORMED FROM NOVEMBER 1 THROUGH MARCH 31. TIME OF YEAR TREE CUTTING RESTRICTIONS APPLY TO TREES THAT ARE 3 INCHES OR GREATER DIAMETER AT BREAST HEIGHT (DBH).

24. MIGRATORY BIRD PROTECTION NOTE UNDER THE MIGRATORY BIRD TREATY ACT (MBTA), IT IS UNLAWFUL BY ANY MEANS OR MANNER TO INTENTIONALLY TAKE, CAPTURE, OR KILL ANY MIGRATORY BIRD UNLESS A PERMIT IS FIRST SECURED. VIOLATIONS OF MBTA REGULATIONS ARE SUBJECT TO PENALTIES OF UP TO \$15,000 AND SIX MONTHS IMPRISONMENT.

PROTECTED MIGRATORY BIRDS INCLUDE ALL WATERFOWL, HERONS, HAWKS, OWLS, EAGLES AND SONGBIRDS, INCLUDING SWALLOWS ROBINS, AND EASTERN PHOEBES. THEIR FEATHERS, NESTS, AND EGGS ARE ALSO PROTECTED UNDER THE MBTA.

EXEMPT FROM THE MBTA ARE ROCK DOVES (DOMESTIC PIGEONS), HOUSE SPARROWS (ENGLISH SPARROWS), EUROPEAN STARLINGS, AND MONK PARAKEETS. NON-NATIVE HUMAN-INTRODUCED BIRD SPECIES ARE NOT PROTECTED BY MBTA. ALTHOUGH THESE SPECIES ARE NOT PROTECTED UNDER THE MBTA, THEY SHOULD STILL BE TREATED AS HUMANELY AS POSSIBLE. IF ANY BIRD NESTS ARE ENCOUNTERED PRIOR TO OR DURING WORK CONTACT THE ENGINEER-IN-CHARGE (EIC) IMMEDIATELY.

AREAS SCHEDULED FOR WORK FROM APRIL 15 TO AUGUST 15 (THE PERIOD IN WHICH NESTS ARE TYPICALLY FOUND WITH EGGS OR UNFLEDGED CHICKS) SHALL BE INSPECTED FOR BIRD NESTING ACTIVITY PRIOR TO COMMENCING ANY WORK ACTIVITY. IF THE NEST(S) IS DETERMINED TO BE OCCUPIED, AVOID DISTURBING, DAMAGING OR REMOVING THE NEST UNTIL THE YOUNG ARE FLEDGED (LEAVE THE NEST). AT NO TIME SHOULD THE NESTS OF HAWKS, FALCONS OR EAGLES BE DESTROYED, AS THESE SPECIES RETURN TO THE SAME NEST SITE YEAR AFTER YEAR AND REUSE THE SAME NEST AFTER FLEDGING OCCURS (OF SPECIES OTHER THAN HAWKS, FALCONS OR EAGLES), AND ALL NESTING ACTIVITY IS BELIEVED TO HAVE CEASED (TYPICALLY INDICATED BY ADULT BIRDS MOVING TO AND FROM THE NEST), THEN THE NEST(S) CAN BE PRESUMED TO BE UNOCCUPIED AND CAN BE REMOVED SO THAT WORK MAY PROCEED. UNOCCUPIED NEST(S) SHOULD BE REMOVED AS QUICKLY AS POSSIBLE TO PREVENT BIRDS FROM BEGINNING A SECOND NEST BROOD AT THE SAME LOCATION.

FROM AUGUST 16 TO APRIL 14 NESTS CAN BE PRESUMED TO BE UNOCCUPIED AND CAN BE REMOVED AFTER CONFIRMING THAT THE NEST IS INDEED INACTIVE.

IF THERE ARE ANY QUESTIONS REGARDING HOW TO PROCEED WITH NESTING MIGRATORY BIRDS, IMMEDIATELY CONTACT THE EIC. NO NESTS OF PROTECTED MIGRATORY BIRDS SHALL BE REMOVED OR DISTURBED IN ANY WAY WITHOUT PERMISSION FROM THE EIC.

UTILITY QUALITY LEVEL DESCRIPTION:

QUALITY LEVEL A - THE HIGHEST DEGREE OF ACCURACY; THE UTILITY INFORMATION ON THE CONTRACT PLANS HAS BEEN LOCATED AND VERIFIED BY EXCAVATION, WHEN APPROPRIATE.

(SHOWN AS QLA)

QUALITY LEVEL B - SUBSURFACE GEOPHYSICAL LOCATING TECHNIQUES (IE. UNDERGROUND CAMERAS, RADAR, SONAR, TONE OUTS, ETC.) AND EXISTING RECORD PLANS HAVE BEEN USED TO LOCATE UTILITIES. NO EXCAVATIONS WERE PERFORMED. (SHOWN AS QLB)

QUALITY LEVEL C - RECORD INFORMATION PROVIDED BY UTILITY OWNERS WAS PLOTTED ON THE CONTRACT PLANS. DEPTHS WERE NOT FIELD VERIFIED. PHYSICAL SURFACE FEATURES LIKE MANHOLES, VALVE BOXES, AND HYDRANTS HAVE BEEN FIELD LOCATED. (SHOWN AS QLC)

QUALITY LEVEL D - EXISTING CITY AND UTILITY COMPANY RECORDS WERE USED TO LOCATE SUBSURFACE UTILITIES. (SHOWN AS QLD)

THE UTILITY QUALITY LEVEL FOR THE PROJECT AREA IS D.

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft+ UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	COUNTY: ULSTER	REGION: 8				
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						
					GENERAL NOTES	
					DRAWING NO. GNN-1	
					SHEET NO. 7	



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ulstercountyny.gov



GENERAL:

1. WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE CURRENT VERSION OF SECTION 619 OF THE STANDARD SPECIFICATIONS, THE CURRENT WORK ZONE TRAFFIC CONTROL (619 SERIES) STANDARD SHEETS, ANY PROVISIONS CONTAINED IN THE PLANS AND/OR PROPOSAL OF THIS CONTRACT, AND AS DIRECTED BY THE ENGINEER.
2. WORK ZONE TRAFFIC CONTROL FOR MOBILE OPERATIONS SHALL BE PROVIDED IN ACCORDANCE WITH FIGURES 6H-4, 6H-17 AND 6H-35, AS APPLICABLE, OF THE MUTCD.
3. AS DEFINED IN SECTION 101-02 OF THE STANDARD SPECIFICATIONS, THE MUTCD CONSISTS OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.

CHANGES TO THE WORK ZONE TRAFFIC CONTROL PLAN:

1. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE WORK ZONE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE BASIC CONCEPT OR SCOPE OF THE WORK ZONE TRAFFIC CONTROL PLAN. SUCH CHANGES TO THE BASIC CONCEPT OR SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE A MINIMUM OF FORTY-FIVE (45) CALENDAR DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.

CONSTRUCTION EQUIPMENT AND VEHICLES:

1. ALL VEHICLES AND EQUIPMENT WITHIN THE CONTRACT LIMITS AND ON TRAVEL LANES AND/OR SHOULDERS SHALL BE EQUIPPED WITH AND SHALL OPERATE A MINIMUM OF ONE AMBER ROTATING OR FLASHING LIGHT EMITTING DIODE (LED) BEACON VISIBLE FROM ALL DIRECTIONS FOR A MINIMUM OF 1000 FEET DURING DAYLIGHT. IF VISIBILITY OF A SINGLE BEACON IS BLOCKED BY A PORTION OF THE VEHICLE OR EQUIPMENT, ADDITIONAL BEACONS SHALL BE PROVIDED. BEACONS SHALL BE MOUNTED IN A MANNER WHICH DOES NOT CAUSE GLARE FOR DRIVERS USING THE ROADWAY OR THE OPERATOR OF THE VEHICLE OR EQUIPMENT.
2. ALL BARRIER/SHADOW VEHICLES SHALL WEIGH A MINIMUM OF 18,000 LB AND SHALL BE EQUIPPED WITH TRUCK-MOUNTED IMPACT ATTENUATORS AND TRUCK-MOUNTED ARROW PANELS. IMPACT ATTENUATORS SHALL MEET THE REQUIREMENTS OF NCHRP 350 TEST LEVEL 3 AND SECTION 729-12 OF THE STANDARD SPECIFICATIONS. ARROW PANELS SHALL BE TRUCK MOUNTED SERIES B OR C PANELS MEETING THE REQUIREMENTS OF SECTION 729-15 OF THE STANDARD SPECIFICATIONS AND SECTION 6F.61 OF THE MUTCD. THE PRICE OF TRUCK-MOUNTED IMPACT ATTENUATORS AND TRUCK-MOUNTED ARROW PANELS SHALL BE INCLUDED IN THE PRICE BID FOR THE BASIC WORK ZONE TRAFFIC CONTROL ITEM.

PARKING OF CONSTRUCTION EQUIPMENT & VEHICLES AND STORAGE OF MATERIALS:

1. CONSTRUCTION EQUIPMENT (INCLUDING LIGHT TOWERS, IF USED), VEHICLES AND MATERIALS SHALL BE PLACED OR STORED DURING NON-WORKING HOURS A MINIMUM OF 30 FEET FROM THE EDGE OF PAVEMENT OR BEHIND TEMPORARY CONCRETE BARRIER OR GUIDE RAIL. EQUIPMENT, VEHICLES AND MATERIALS STORED BEHIND TEMPORARY CONCRETE BARRIER OR GUIDE RAIL SHALL NOT BE PLACED OR STORED WITHIN THE APPROPRIATE DEFLECTION DISTANCE SHOWN IN TABLE 619-6, GUIDE RAIL AND TEMPORARY CONCRETE BARRIER STANDARD DEFLECTION DISTANCES, IN THE STANDARD SPECIFICATIONS.
2. APPROPRIATE DEFLECTION DISTANCE SHOWN IN TABLE 619-6, GUIDE RAIL AND TEMPORARY CONCRETE BARRIER STANDARD DEFLECTION DISTANCES, IN THE STANDARD SPECIFICATIONS.
3. PRIVATE VEHICLES OWNED BY THE CONTRACTOR OR THE CONTRACTOR'S WORKERS SHALL BE PARKED, DURING WORKING AND NON-WORKING HOURS, IN ACCORDANCE WITH THE REQUIREMENTS IN THE PRECEDING PARAGRAPH.

ACTIVITY AREAS:

1. ACTIVITY AREAS SHOULD BE LIMITED TO ONE SIDE OF A ROADWAY AT A TIME UNLESS APPROVED BY THE ENGINEER. UNLESS OTHERWISE APPROVED BY THE ENGINEER, ACTIVITY AREAS ON ALTERNATE SIDES OF A ROADWAY SHALL BE SEPARATED BY A MINIMUM LONGITUDINAL DISTANCE OF 4L, WHERE L IS DEFINED IN TABLE 6H-4 OF THE MUTCD.
2. IT MAY BE NECESSARY TO LIMIT THE LENGTH OF A GIVEN ACTIVITY AREA. THE ENGINEER WILL DETERMINE THE MAXIMUM LENGTH OF ACTIVITY AREAS.
3. WHEN TWO ACTIVITY AREAS ON A ROADWAY ARE SEPARATED BY A SUFFICIENT LONGITUDINAL DISTANCE, ADVANCE WARNING SIGNS SHALL BE PLACED FOR BOTH ACTIVITY AREAS IN ACCORDANCE WITH THE MUTCD OR APPLICABLE WORK ZONE TRAFFIC CONTROL STANDARD SHEET(S). WHEN THE LONGITUDINAL DISTANCE BETWEEN SUCCESSIVE ACTIVITY AREAS IS NOT SUFFICIENT, THE CONTRACTOR SHALL PROVIDE ADEQUATE SIGNAGE TO INFORM ROAD USERS AND REDUCE CONFUSION. THE ENGINEER SHALL DETERMINE THE ADEQUACY OF SIGNAGE IN SUCH CASES.

TEMPORARY LANE AND SHOULDER CLOSURES:

IT WILL BE NECESSARY TO TEMPORARILY CLOSE TRAVEL LANES AND/OR SHOULDERS TO PERFORM THE CONTRACT WORK. THE FOLLOWING RESTRICTIONS SHALL APPLY TO LANE AND SHOULDER CLOSURES:

- A. NO LANE OR SHOULDER CLOSURES SHALL BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

NO LANE OR SHOULDER CLOSURES SHALL BE PERMITTED DURING NON-WORKING HOURS, UNLESS SPECIFICALLY PROVIDED ELSEWHERE IN THE CONTRACT DOCUMENTS.

- B. ALL LANE AND/OR SHOULDER CLOSURES ON KEY CORRIDORS MUST BE APPROVED BY THE HUDSON VALLEY TRANSPORTATION MANAGEMENT CENTER'S SURFACE TRANSPORTATION CONTROLLER (STC) PRIOR TO IMPLEMENTATION. KEY CORRIDORS ARE DEFINED IN C BELOW.

LANE AND/OR SHOULDER CLOSURES ON NON-KEY CORRIDORS DO NOT REQUIRE STC APPROVAL BUT MUST BE REPORTED IN ADVANCE TO THE STC.

THE HUDSON VALLEY TRANSPORTATION MANAGEMENT CENTER'S ROAD WORK FORM SHALL BE USED TO REQUEST STC APPROVAL OF LANE AND/OR SHOULDER CLOSURES ON KEY CORRIDORS AND TO NOTIFY THE STC OF LANE AND/OR SHOULDER CLOSURES ON NON-KEY CORRIDORS. THE ROAD WORK FORM WILL BE MADE AVAILABLE TO THE CONTRACTOR BY THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE ROAD WORK FORM AND FORWARDING IT THROUGH THE ENGINEER TO THE STC. THE ROAD WORK FORM MUST BE SUBMITTED TO THE STC AT DOT.SM.R08.STC OR STC-R08@DOT.NY.GOV A MINIMUM OF SEVEN (7) CALENDAR DAYS IN ADVANCE OF SCHEDULED CLOSURES. THE STC SHALL RESPOND WITHIN FOUR (4) CALENDAR DAYS AFTER RECEIPT OF THE ROAD WORK FORM.

- C. KEY CORRIDORS ARE DEFINED AS:

I-84 (INCLUDING THE NEWBURGH-BEACON BRIDGE)
NYS ROUTE 17 (FUTURE I-86)
I-87 (INCLUDING THE TAPPAN ZEE BRIDGE)
I-90
I-95
I-287
I-684
CROSS COUNTY PARKWAY (CCP)
HUTCHINSON RIVER PARKWAY (HRP)
PALISADES INTERSTATE PARKWAY (PIP)
SAW MILL RIVER PARKWAY (SMRP)
SPRAIN BROOK PARKWAY (SSBP)
TACONIC STATE PARKWAY (TSP)

TO MINIMIZE INCONVENIENCE TO THE TRAVELING PUBLIC, THE STATE RESERVES THE RIGHT TO ALLOW WORK BY OTHERS ALONG KEY CORRIDORS WITHIN THE CONTRACT LIMITS.

DUE TO POSSIBLE TRAFFIC CONTROL CONFLICTS, LANE/SHOULDER CLOSURE APPROVALS ON KEY CORRIDORS MAY OR MAY NOT BE GRANTED FOR THE DATE(S) REQUESTED. ANY ADDITIONAL COSTS, DELAYS OR REMOBILIZATIONS ASSOCIATED WITH THE APPROVAL PROCESS SHALL BE INCLUDED IN THE BID PRICE FOR BASIC WORK ZONE TRAFFIC CONTROL.

NO KEY CORRIDOR LANE OR SHOULDER CLOSURES ARE ANTICIPATED IN THIS CONTRACT.

- D. ON NON-KEY CORRIDORS THE SAME NUMBER OF TRAVEL LANES (INCLUDING TURNING LANES) AS EXIST PRIOR TO THIS CONTRACT SHALL BE MAINTAINED IN EACH DIRECTION DURING THE HOURS OF 7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 6:00 P.M.-MONDAY TO FRIDAY, INCLUSIVE. SHOULDERS SHALL NOT BE CLOSED DURING THESE TIME PERIODS.

- E. AS DESCRIBED BELOW, THE TIME RESTRICTIONS IN C AND D CAN BE ADJUSTED BY THE ENGINEER AS TRAFFIC CONDITIONS WARRANT.

THE ENGINEER IS AUTHORIZED TO ORDER ADDITIONAL TIME RESTRICTIONS ON ALL ROADS OF UP TO ONE HOUR PER WORK DAY IF TRAFFIC CONDITIONS WARRANT. THERE SHALL BE NO COST TO THE STATE FOR SUCH ADDED RESTRICTIONS. THE CONTRACTOR SHALL NOT HAVE ANY DELAY CLAIMS AGAINST THE STATE IF THE ENGINEER ORDERS UP TO ONE HOUR OF ADDITIONAL TIME RESTRICTIONS PER DAY.

THE ENGINEER IS AUTHORIZED TO REDUCE TIME RESTRICTIONS ON NON-KEY CORRIDORS AS TRAFFIC CONDITIONS WARRANT.

TEMPORARY LANE AND SHOULDER CLOSURES (CONT.):

- F. THE CONTRACTOR WILL NOT BE ALLOWED TO IMPLEMENT ANY TEMPORARY LANE OR SHOULDER CLOSURES OR OTHERWISE DISRUPT TRAFFIC IN ANY WAY DURING THE FOLLOWING STATE RECOGNIZED HOLIDAYS:

- | | |
|---------------------|---------------------|
| 1. NEW YEAR'S DAY | 4. LABOR DAY |
| 2. MEMORIAL DAY | 5. THANKSGIVING DAY |
| 3. INDEPENDENCE DAY | 6. CHRISTMAS DAY |

CONSTRUCTION ACTIVITIES USING TEMPORARY LANE CLOSURES SHALL BE SUSPENDED TO MINIMIZE TRAVEL DELAYS ASSOCIATED WITH ROAD WORK FOR MAJOR HOLIDAYS AS FOLLOWS:

FRIDAY, SATURDAY, SUNDAY, AND MONDAY HOLIDAYS - BEGINNING 6:00 AM THE BUSINESS DAY BEFORE THE HOLIDAY AND ENDING 6:00 AM THE BUSINESS DAY BEFORE THE HOLIDAY.

TUESDAY HOLIDAYS - BEGINNING 6:00 AM THE FRIDAY BEFORE THE HOLIDAY AND ENDING 6:00 AM THE NEXT BUSINESS DAY.

WEDNESDAY HOLIDAYS - BEGINNING 6:00 AM THE TUESDAY BEFORE THE HOLIDAY AND ENDING 6:00 AM THE NEXT BUSINESS DAY.

THURSDAY HOLIDAYS - BEGINNING 6:00 AM THE BUSINESS DAY BEFORE THE HOLIDAY AND ENDING 6:00 AM THE FOLLOWING MONDAY.

THE CONTRACTOR WILL NOT BE ALLOWED TO IMPLEMENT ANY TEMPORARY LANE OR SHOULDER CLOSURES OR OTHERWISE DISRUPT TRAFFIC IN ANY WAY DURING THE FOLLOWING HOLIDAYS IN ADDITION TO THOSE STATED IN THE ABOVE SPECIAL NOTE:

2017
MOTHERS DAY - SUNDAY, MAY 14. BEGINNING 6:00 AM FRIDAY MAY 12 AND ENDING 10:00 AM MONDAY MAY 15.
COLUMBUS DAY - MONDAY, OCTOBER 9. BEGINNING 6:00 AM FRIDAY OCTOBER 7 AND ENDING 10:00 AM TUESDAY OCTOBER 10.

TEMPORARY LANE CLOSURE CLOSURES SHALL NOT BE PERMITTED UNTIL 10:00 AM, THE DAY FOLLOWING THE HOLIDAY. THIS HOLIDAY TIME RESTRICTION SUPERSEDES THOSE TIMES SHOWN IN THE "SPECIAL NOTE - TEMPORARY LANE CLOSURE RESTRICTIONS FOR MAJOR HOLIDAYS (2015, 2016 &2017)"

- G. IN AREAS OF MAJOR SHOPPING MALLS, THE SAME NUMBER OF TRAVEL LANES (INCLUDING TURNING LANES) AS EXIST PRIOR TO THIS CONTRACT SHALL BE MAINTAINED IN EACH DIRECTION DURING THE HOURS OF 10:00 A.M. TO 4:00 P.M. ON SATURDAYS. THIS APPLIES TO KEY CORRIDORS AND NON-KEY CORRIDORS.

- H. THE STATE RESERVES THE RIGHT TO PRECLUDE LANE AND/OR SHOULDER CLOSURES DURING PERIODS OF INCLEMENT WEATHER, WET OR ICY PAVEMENT, REDUCED VISIBILITY, TRAFFIC ACCIDENTS OR ANY OTHER EMERGENCIES. THE STATE MAY ALTER ANY LANE OR SHOULDER CLOSURES SHOULD TRAFFIC CONDITIONS OR OTHER UNFORESEEN CIRCUMSTANCES ARISE WHICH WOULD ADVERSELY AFFECT THE TRAFFIC FLOW. THE CONTRACTOR IS ALSO ALERTED TO THE FACT THAT INCIDENT MANAGEMENT OR TRAFFIC CONDITIONS MIGHT FORCE HIS/HER CONSTRUCTION OPERATIONS TO STOP, EVEN DURING TIME WHERE SUCH OPERATION WOULD NORMALLY BE PERMITTED. SEVEN (7) ABOVE-DESCRIBED OCCURRENCES PER CALENDAR YEAR SHOULD BE TAKEN INTO CONSIDERATION AS A REASONABLE FREQUENCY WHEN BIDDING THIS PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM AGAINST THE STATE FOR ANY DELAYS OR EXTRA COSTS INCURRED IN COMPLYING WITH THESE RESTRICTIONS.

2. THE STATE MAY GRANT A WAIVER OF THESE RESTRICTIONS UPON A TIMELY RECEIPT OF A REQUEST FOR SAID WAIVER FROM THE CONTRACTOR. A MINIMUM OF SEVEN (7) CALENDAR DAYS FOR THE REVIEW OF THE CONTRACTOR'S REQUEST IS REQUIRED.

CONDITION OF TRAFFIC CONTROL DEVICES:

1. AT THE START OF CONTRACT WORK, ALL CONES, TEMPORARY TUBULAR MARKERS, DRUMS, CONSTRUCTION BARRICADES, VERTICAL PANELS, WARNING LIGHTS, ARROW PANELS, PORTABLE VARIABLE MESSAGE SIGNS, PAVEMENT MARKING TAPE AND RAISED PAVEMENT MARKERS SHALL APPEAR IN "ACCEPTABLE" CONDITION AS DESCRIBED AND PICTURED IN THE CURRENT EDITION OF THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) MANUAL QUALITY GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES. THESE DEVICES SHALL NOT BE ALLOWED TO FALL BELOW THE "MARGINAL" CONDITION AT ANY TIME DURING THE LIFE OF THE CONTRACT.

2. ALL SIGNS SHALL BE IN "ACCEPTABLE" CONDITION AS DESCRIBED IN THE ATSSA MANUAL QUALITY GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES THROUGHOUT THE LIFE OF THE CONTRACT. NON-STANDARD SIGN LEGENDS ARE NOT ACCEPTABLE.

3. RIGID SIGN PANELS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 7 FEET, MEASURED FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE LOWEST SIGN PANEL. FOR SIGNS INCORPORATING AN AUXILIARY PANEL BELOW THE PRIMARY PANEL, THE MINIMUM MOUNTING HEIGHT SHALL BE 6 FEET. FLEXIBLE PANEL AND LIGHTWEIGHT RIGID PANELS SHALL BE MOUNTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

NIGHTTIME CONSTRUCTION AND ACTIVITY AREA LIGHTING:

1. NIGHTTIME WORK IS NOT REQUIRED OR INCLUDED IN THIS CONTRACT. IF NIGHTTIME CONSTRUCTION IS REQUESTED BY THE CONTRACTOR, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN WRITTEN CONCURRENCE TO UNDERTAKE NIGHTTIME CONSTRUCTION FROM THE SUPERVISOR(S) AND/OR MAYOR(S) OF THE MUNICIPALITY OR MUNICIPALITIES IN WHICH THE PROJECT IS LOCATED. IF THE REQUEST IS CONSIDERED BY THE DEPARTMENT TO BE IN THE BEST INTEREST OF THE STATE, FINAL APPROVAL WILL BE GRANTED BY THE ENGINEER CONTINGENT UPON RECEIPT OF CONCURRENCE OF THE SUPERVISOR(S) AND/OR MAYOR(S), AND AN ACCEPTABLE NIGHTTIME OPERATIONS AND LIGHTING PLAN PREPARED IN ACCORDANCE WITH SECTION 619 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL HAVE NO CLAIM IF NIGHTTIME CONSTRUCTION IS DISALLOWED DUE TO FAILURE TO OBTAIN THESE APPROVALS.

2. IF NIGHTTIME CONSTRUCTION IS APPROVED, THE CONTRACTOR SHALL PROVIDE LIGHTING IN ACCORDANCE WITH SECTIONS 619-1.19 AND 619-3.19 OF THE STANDARD SPECIFICATIONS AND A TRAFFIC CONTROL SUPERVISOR IN ACCORDANCE WITH SECTIONS 619-1.20 AND 619-3.20 OF THE STANDARD SPECIFICATIONS AT NO ADDITIONAL COST TO THE STATE. A TRAFFIC CONTROL SUPERVISOR SHALL BE PRESENT DURING ALL NIGHTTIME OPERATIONS.

3. PRIOR TO ANY NIGHTTIME OPERATIONS, THE CONTRACTOR SHALL CONDUCT A NIGHTTIME MOCK RUN OF THE PROPOSED LIGHTING SCHEME WHICH SHALL BE VIEWED BY THE ENGINEER FOR APPROVAL. NIGHTTIME WORK SHALL NOT BE SCHEDULED TO COMMENCE ON THIS NIGHT.

4. IF NIGHTTIME CONSTRUCTION IS APPROVED, TYPE "B" HIGH INTENSITY FLASHING WARNING LIGHTS MEETING THE REQUIREMENTS OF SECTION 729-18 OF THE STANDARD SPECIFICATIONS SHALL BE USED WITH CONSTRUCTION SIGNS, AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE STATE.

CHANNELIZING DEVICES:

1. RECOMMENDED PRACTICES FOR CHANNELING DEVICES ARE PROVIDED IN THE MUTCD AND SECTION 619-3.02 J OF THE STANDARD SPECIFICATIONS.

2. TALL CONES, MEETING THE REQUIREMENTS OF SECTION 729-02 OF THE STANDARD SPECIFICATIONS, ARE NORMALLY ADEQUATE FOR WORK ZONES SET UP AND REMOVED ON A DAILY BASIS DURING DAYLIGHT HOURS. DRUMS OR OVERSIZED VERTICAL PANELS ARE PREFERRED FOR ALL OTHER WORK ZONES AND AT ANY LOCATIONS WHERE THE RISK OF INTRUSION IS HIGH, AS DETERMINED BY THE ENGINEER.

3. THE CONTRACTOR SHALL MAKE FREQUENT CHECKS COMMENSURATE WITH TRAFFIC CONDITIONS TO IDENTIFY AND RESET CHANNELIZING DEVICES DISLODGED BY TRAFFIC.

FLAGGER EQUIPMENT AND STATIONS:

1. TO ENSURE A PROPER LEVEL OF TRAFFIC SAFETY, EACH FLAGGER SHALL BE EQUIPPED WITH A TWO-WAY RADIO DEVICE. THE COST SHALL BE INCLUDED IN THE BASIC WORK ZONE TRAFFIC CONTROL ITEM.

2. ALL FLAGGER STATIONS SHALL BE ENHANCED WITH ADDITIONAL CONES AND A FLAG TREE AS SHOWN ON THE WORK ZONE TRAFFIC CONTROL (619 SERIES) STANDARD SHEETS AND AS DIRECTED BY THE ENGINEER. THE FLAG TREE SHALL MEET THE REQUIREMENTS OF SECTION 6F.62 OF THE MUTCD EXCEPT THAT A MINIMUM OF THREE (3) FLAGS ARE REQUIRED. THIS SETUP SHALL BE USED FOR ALL FLAGGER STATIONS EXCEPT THOSE THAT ARE CONSTANTLY MOVING. ALL COSTS ASSOCIATED WITH THESE REQUIREMENTS SHALL BE INCLUDED UNDER THE BASIC WORK ZONE TRAFFIC CONTROL ITEM.

3. FLAGGER SIGNS ARE TO BE USED ONLY WHEN A FLAGGER IS ACTUALLY PRESENT AND VISIBLE TO THE MOTORIST. FLAGGER SIGNS SHALL BE COVERED OR REMOVED AT ALL OTHER TIMES.

PEDESTRIAN ACCESS:

1. WHERE EXCAVATIONS OR OTHER WORK OCCUR IN OR NEAR SIDEWALKS OR OTHER PEDESTRIAN WAYS, THE CONTRACTOR SHALL PROVIDE A SAFE AND ORDERLY PEDESTRIAN PASSAGE AROUND THE ACTIVITY AREA. THE PEDESTRIAN PASSAGE SHALL NOT SUBJECT PEDESTRIANS TO HAZARDS FROM TRAFFIC OR CONSTRUCTION OPERATIONS NOR CAUSE THE PEDESTRIANS TO WALK UPON UNSUITABLE OR HAZARDOUS SURFACES.

2. AT THE END OF EACH WORK DAY, ALL EXCAVATED MATERIAL SHALL BE TAKEN FROM THE SITE TO A LOCATION APPROVED BY THE ENGINEER AND ALL CONSTRUCTION EQUIPMENT, MATERIALS, AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM SIDEWALKS OR PEDESTRIAN WAYS THAT ARE OPEN TO TRAFFIC. CONSTRUCTION MATERIALS, VEHICLES, EQUIPMENT, DEBRIS, TEMPORARY SIGN SUPPORTS OR OTHER MATERIALS SHALL NOT BE PLACED OR STORED ON OPEN SIDEWALKS OR WALKWAYS UNLESS EXPRESSLY SHOWN IN THE CONTRACT DOCUMENTS OR APPROVED BY THE ENGINEER.

3. UPON COMPLETION OF THE WORK AT EACH LOCATION, THE CONTRACTOR SHALL REMOVE ALL REMAINING MATERIAL AND EQUIPMENT AND SHALL LEAVE THE AFFECTED AREA(S) IN A NEAT CONDITION.

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4
	COUNTY: ULSTER REGION: 8

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

PIN 8761.21	BRIDGES	CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
TRAFFIC CONTROL NOTES	
DRAWING NO.	TCN-1
SHEET NO.	8



BEACON, NEW YORK 12508
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Ulster County
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DESIGN SUPERVISOR B. FITZGERALD

JOB MANAGER J. GORTON

DESIGN L. BACH

CHECK

J. GORTON

DRAFTING

K. FISCHER

CHECK




L. BACH

PROJECT MANAGER

J. GORTON

ENFORCEABLE REDUCED REGULATORY SPEED LIMIT AND
ADVISORY SPEED SIGNS (DAILY OPERATION INSTALLATIONS):

1. ALL REDUCTIONS IN REGULATORY SPEED LIMITS AND ADVISORY SPEEDS ASSOCIATED WITH WORK ZONES MUST BE APPROVED, IN WRITING AND IN ADVANCE, BY THE REGIONAL TRAFFIC ENGINEER OR HIS/HER DESIGNEE.
2. THE CONTRACTOR MAY REQUEST APPROVAL OF REDUCED REGULATORY SPEED LIMITS AND ADVISORY SPEEDS FOR SHORT-TERM STATIONARY WORK ZONES WHERE SUCH PROVISIONS ARE NOT OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. REQUESTS MUST BE SUBMITTED THROUGH THE ENGINEER TO THE REGIONAL TRAFFIC ENGINEER A MINIMUM OF FOURTEEN (14) CALENDAR DAYS IN ADVANCE OF THE SCHEDULED IMPLEMENTATION OF ANY WORK ZONE CONTAINING THE REQUESTED REDUCED REGULATORY SPEED LIMITS AND/OR ADVISORY SPEEDS.
3. GENERALLY, TO QUALIFY FOR A REDUCTION IN REGULATORY SPEED LIMIT AT A SHORT TERM STATIONARY WORK ZONE, THE WORK ZONE MUST CONTAIN AN ACTIVITY AREA THAT IS GREATER THAN 1/2 MILE ON A HIGHWAY WITH A PRECONSTRUCTION POSTED SPEED LIMIT OF 55 MPH OR GREATER AND BE OF A DURATION EXCEEDING FOUR (4) HOURS WHERE WORKERS ARE ON FOOT IN THE ACTIVITY AREA AND ARE NOT PREDOMINANTLY SEPARATED FROM TRAFFIC BY A POSITIVE BARRIER. IF APPROVED, THE REDUCED REGULATORY SPEED SHALL BE NO MORE THAN 10 MPH BELOW THE PRECONSTRUCTION POSTED SPEED LIMIT. IN LONG WORK ZONES WITH SEVERAL INTERMITTENT ACTIVITY AREAS, THE PRECONSTRUCTION POSTED SPEED LIMIT SHALL BE RESTORED BETWEEN ACTIVITY AREAS THAT ARE SEPARATED BY TWO (2) OR MORE MILES.
4. TO QUALIFY FOR AN ADVISORY SPEED AT A SHORT TERM STATIONARY WORK ZONE, HAZARDOUS WORK ZONE CONDITIONS MUST EXIST THAT WARRANT A LOCALIZED REDUCTION IN SPEED. SUCH CONDITIONS INCLUDE, BUT ARE NOT LIMITED TO, NARROW LANES, BUMPS, GROOVED PAVEMENT, LOW OR NO SHOULDERS, ROADWAY DROP-OFFS, POOR ROADWAY SURFACE, POOR SIGHT DISTANCE, GEOMETRIC CONSTRAINTS AND EXPOSED WORKERS ADJACENT TO ACTIVE TRAFFIC.
5. IF A REDUCTION IN REGULATORY SPEED LIMIT AND/OR ADVISORY SPEED IS APPROVED, THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN REGULATORY SPEED LIMIT AND/OR ADVISORY SPEED SIGNS IN ACCORDANCE WITH SECTIONS 619-3.02 H 4 AND 5 OF THE STANDARD SPECIFICATIONS AND THE MUTCD, AND AS DIRECTED BY THE ENGINEER. THESE SIGNS SHALL BE USED IN CONJUNCTION WITH THE LANE CLOSURE OR OTHER WORK ZONE TRAFFIC CONTROL SIGNS AND SHALL BE COVERED OR REMOVED WHEN THE WORK ZONE TRAFFIC CONTROL PATTERN IS REMOVED EACH DAY. ANY EXISTING REGULATORY SPEED LIMIT SIGNS WITHIN THE WORK ZONE SHALL BE COVERED DURING THE TIME THE WORK ZONE TRAFFIC CONTROL IS IN PLACE AND UNCOVERED WHEN THE WORK ZONE TRAFFIC CONTROL PATTERN IS REMOVED.
6. REDUCTIONS IN REGULATORY SPEED LIMITS AND ADVISORY SPEEDS SHALL NOT BE PERMITTED FOR MOBILE OR SHORT DURATION WORK ZONES.
7. THE COST OF UTILIZING APPROVED REGULATORY OR ADVISORY SPEED ZONE SIGNS, AND COVERING EXISTING SIGNS, SHALL BE INCLUDED IN THE PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL.

AFFIX SEAL: ON:		ALTERED BY: ON:													
		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		HUDSON VALLEY RAIL TRAIL WEST - PHASE 4		PIN 8761.21		BRIDGES		CULVERTS		ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED		CONTRACT NUMBER	
				COUNTY: ULSTER		REGION: 8								TRAFFIC CONTROL NOTES	
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.										 <div>BEACON, NEW YORK 12508 (845) 638-3000 www.hvesapc.com</div>		 			

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DATE/TIME = 20-DEC-2017 09:57
USER = Catherine

AFFIX SEAL: ON:	ALTERED BY: ON:

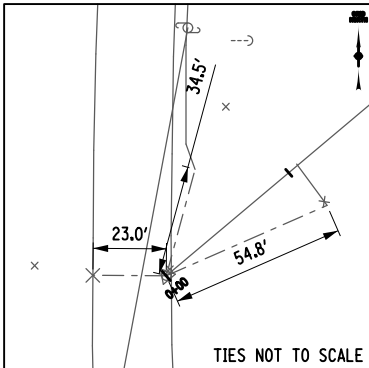
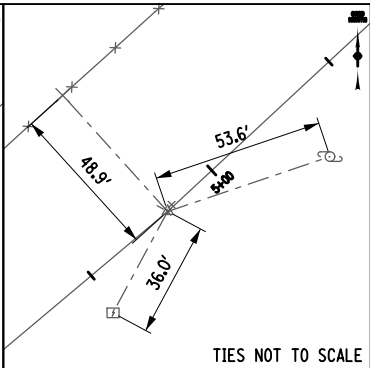
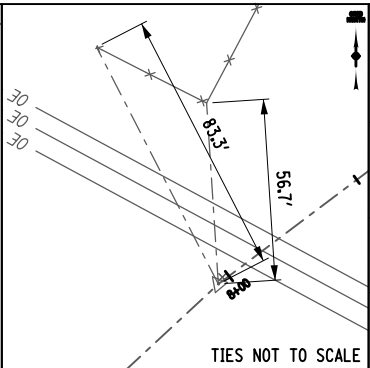
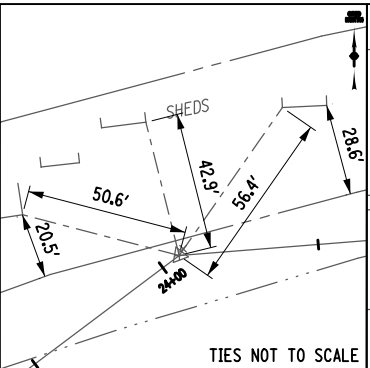
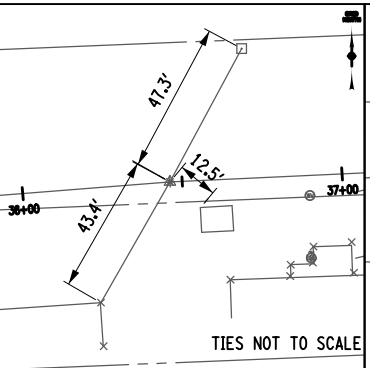
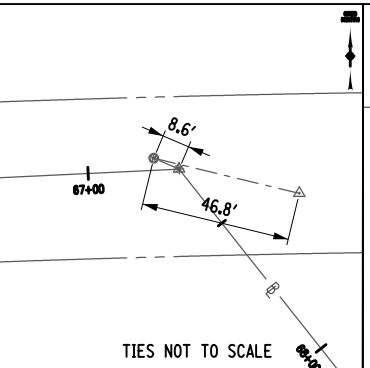
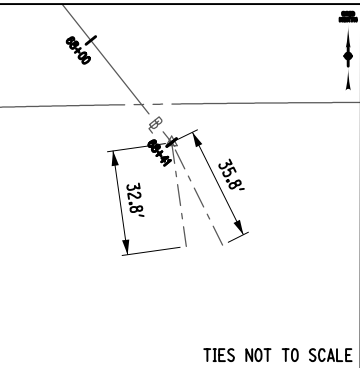
HORIZONTAL CONTROL TABLE				
H.C.L. POINT	H.C.L. STATION	COORDINATES		DESCRIPTION
		NORTHING	EASTING	
HUDSON VALLEY RAIL TRAIL WEST - PHASE 4				
P.O.B.	10+00.00	1058408.8903	618146.1063	BEGIN ALIGNMENT
P.C.	17+73.48	1058291.2343	618910.5808	P.C. CURVE 1
P.I.	18+22.07	1058283.8417	618958.6144	R = 150'
P.R.C.	18+67.47	1058249.6853	618993.1864	P.R.C. CURVE 1/2
P.I.	19+16.07	1058215.5290	619027.7584	R = 150'
P.T.	19+61.47	1058208.1364	619075.7920	P.T. CURVE 2
P.C.	27+06.06	1058094.8735	619811.7215	P.C. CURVE 3
P.I.	27+64.22	1058086.0270	619869.2020	R = 250'
P.R.C.	28+20.35	1058103.4592	619924.6853	P.R.C. CURVE 3/4
P.I.	28+62.12	1058115.9803	619964.5375	R = 250'
P.T.	29+03.13	1058114.8650	620006.2954	P.T. CURVE 4
P.C.	31+92.80	1058107.1310	620295.8675	P.C. CURVE 5
P.I.	32+27.41	1058106.2069	620330.4677	R = 75'
P.R.C.	32+57.66	1058079.2788	620352.2141	P.R.C. CURVE 5/6
P.I.	34+45.25	1057933.3375	620470.0724	R = 150'
P.R.C.	35+26.54	1058080.4107	620586.5151	P.R.C. CURVE 6/7
P.I.	35+61.12	1058107.5184	620607.9772	R = 75'
P.T.	35+91.34	1058108.8037	620642.5286	P.T. CURVE 7
P.C.	42+40.12	1058132.9211	621290.8572	P.C. CURVE 8
P.I.	42+60.91	1058133.6942	621311.6392	R = 250'
P.R.C.	42+81.61	1058137.8904	621332.0078	P.R.C. CURVE 8/9
P.I.	43+02.41	1058142.0866	621352.3765	R = 250'
P.T.	43+23.11	1058142.8597	621373.1584	P.T. CURVE 9
P.C.	44+35.42	1058147.0347	621485.3916	P.C. CURVE 10
P.I.	44+73.70	1058148.4576	621523.6436	R = 250'
P.R.C.	45+11.39	1058161.2609	621559.7174	P.R.C. CURVE 10/11
P.I.	45+47.92	1058173.4795	621594.1439	R = 250'
P.T.	45+83.94	1058175.3367	621630.6272	P.T. CURVE 11
P.C.	47+36.28	1058183.0817	621782.7757	P.C. CURVE 12
P.I.	48+68.73	1058189.8153	621915.0559	R = 500'
P.R.C.	49+95.24	1058130.1785	622033.3219	P.R.C. CURVE 12/13
P.I.	50+73.03	1058095.1512	622102.7846	R = 300'
P.T.	51+47.47	1058098.2934	622180.5156	P.T. CURVE 13
P.C.	68+60.49	1058167.4848	623892.1356	P.C. CURVE 14
P.I.	70+43.02	1058174.8574	624074.5142	R = 5000'
P.T.	72+25.38	1058168.9124	624256.9450	P.T. CURVE 14
P.C.	78+33.18	1058149.1164	624864.4155	P.C. CURVE 15
P.I.	78+57.39	1058148.3278	624888.6124	R = 101'
P.R.C.	78+80.70	1058136.6552	624909.8225	P.R.C. CURVE 15/16
P.I.	79+02.39	1058126.1947	624928.8300	R = 100'
P.T.	79+23.43	1058124.5516	624950.4635	P.T. CURVE 16
P.O.E.	81+55.51	1058106.9750	625181.8802	END ALIGNMENT

ABBREVIATIONS:
P.C. - POINT OF CURVATURE
P.I. - POINT OF INTERSECTION
P.T. - POINT OF TANGENCY
P.C.C. - POINT OF COMPOUND CURVE
P.R.C. - POINT OF REVERSE CURVE
P.O.B. - POINT OF BEGINNING
P.O.E. - POINT OF ENDING

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER			
					HORIZONTAL CONTROL TABLE	DRAWING NO. HCT-1			
	COUNTY: ULSTER REGION: 8					SHEET NO. 10			
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					<div><div>HVEA</div><div>ENGINEERS</div></div> <div>BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com</div>				
					<div>Ulster County</div> <div>ulstercountyny.gov</div>				




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DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH CHECK J. GORTON DRAFTING K. FISCHER CHECK L. BACH PROJECT MANAGER J. GORTON

						
BL1 - SPIKE STA. 0+00 NYSPCS EAST ZONE N: 1056460.06 E: 617992.16	BL2 - SPIKE STA. 4+81.22 NYSPCS EAST ZONE N: 1056769.71 E: 618360.52	BL3 - SPIKE STA. 7+95.88 NYSPCS EAST ZONE N: 1056983.88 E: 618591.05	BL4 - SPIKE STA. 24+06.41 NYSPCS EAST ZONE N: 1057952.73 E: 619877.57	BL5 - SPIKE STA. 36+46.14 NYSPCS EAST ZONE N: 1058049.63 E: 621113.51	BL6 - SPIKE STA. 67+28.48 NYSPCS EAST ZONE N: 1058196.24 E: 624192.36	BL7 - SPIKE STA. 68+40.70 NYSPCS EAST ZONE N: 1058108.27 E: 624262.03

AFFIX SEAL: ON:	ALTERED BY: ON:

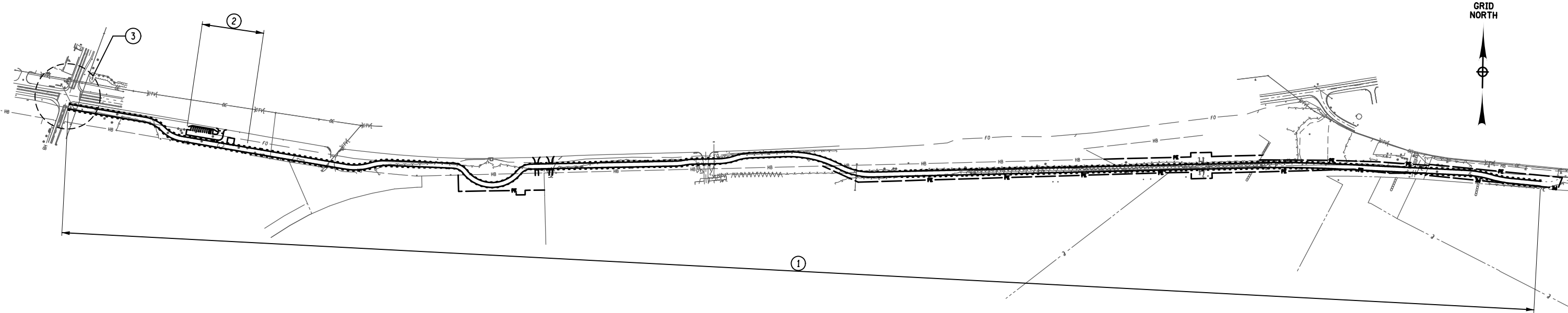
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
					BASELINE TIES	DRAWING NO. BL-1 SHEET NO. 11
	COUNTY: ULSTER REGION: 8					

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DESIGN SUPERVISOR B. FITZGERALD
JOB MANAGER J. GORTON
DESIGN L. BACH
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON

MAINTENANCE JURISDICTION TABLE					
NUMBER	HIGHWAY	LIMITS	FEATURES TO BE MAINTAINED	AGENCY	AUTHORITY
TRAIL					
1	HUDSON VALLEY RAIL TRAIL	ENTIRE PROJECT LIMITS	TRAIL PAVEMENT, SIGNS, RAILINGS, STRIPING, DRAINAGE APPURTANCES, AND LANDSCAPING	ULSTER COUNTY	USE AND OCCPANCY PERMIT
PARKING LOT					
2	TRAIL PARKING LOT	ENTIRE PARKING LOT	PAVEMENT AND STRIPING	ULSTER COUNTY	USE AND OCCPANCY PERMIT
PEDESTRIAN CROSSING					
3	S.H. 1536 (NY ROUTE 299)	INTERSECTION OF SOUTH RD/S ELTING CORNERS RD	SIGNAL EQUIPMENT, STRIPING, AND CONDUIT	NYSDOT	HIGHWAY LAW SECTION 349-C



AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	
PIN 8761.21	
BRIDGES	
CULVERTS	
ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	
CONTRACT NUMBER	
MAINTENANCE JURISDICTION PLAN	
DRAWING NO. MJP-01	
SHEET NO. 12	
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HVEA ENGINEERS BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com	
Ulster County ulstercountyny.gov	

ADA REPORTING TABLE-CURB RAMPS						
CURB RAMPS						
LOCATION				RAMP TYPE	NEW OR REPLACEMENT	NOTES
ROADWAY	STATION	SIDE	COORDINATES			
HVRT WEST PHASE 4	14+27	CT	41°44'15.9"N 74°02'12.1"W	TYPE 1	LEVEL LANDING	
HVRT WEST PHASE 4	14+65	LT	41°44'16.1"N 74°02'11.7"W	TYPE 1	LEVEL LANDING	
HVRT WEST PHASE 4	26+29	CT	41°44'14.2"N 74°01'56.6"W	TYPE 1	LEVEL LANDING	
HVRT WEST PHASE 4	26+57	CT	41°44'14.2"N 74°01'56.1"W	TYPE 1	LEVEL LANDING	
HVRT WEST PHASE 4	43+62	CT	41°44'14.1"N 74°01'34.7"W	TYPE 1	LEVEL LANDING	
HVRT WEST PHASE 4	43+95	CT	41°44'14.1"N 74°01'34.1"W	TYPE 1	LEVEL LANDING	

SIGNATURE _____

TABLE OF FENCE						
STATION	TO	STATION	SIDE	ITEM 607.0512	ITEM 607.08030910	ITEM 607.60010001
16+50		19+00	RT		250	
19+73		21+97	LT		280	
30+00		33+00	RT		300	
32+00		35+00	LT		300	
34+50		35+50	RT		100	
36+50		36+65	RT		40	
44+50		45+75	RT		125	
45+75		47+00	LT			125
47+00		48+00	RT		100	
50+00		52+00	RT		200	
50+00		53+00	LT		300	
65+72		66+72	RT			100
65+72		66+72	LT			100
70+25		73+00	LT	275		

ITEM 608.21 (SY) EMBEDDED DETECTABLE WARNING UNITS						
STATION	COMMENTS	SIDE	LENGTH (FT)	WIDTH (FT)	(SF)	(SY)
14+27.00		BOTH	14.50	2.00	29.00	3.22
14+65.00		LT	12.00	2.00	24.00	2.67
26+29.00		BOTH	12.00	2.00	24.00	2.67
26+57.00		BOTH	12.00	2.00	24.00	2.67
43+62.00		BOTH	12.00	2.00	24.00	2.67
43+95.00		BOTH	12.00	2.00	24.00	2.67
TOTAL:						16.56

TABLE OF GUIDE RAIL							
STATION	STATION	SIDE	DESCRIPTION	ITEM NUMBER	UNIT	QTY.	PMT. FACTOR PD. QTY.
18+79.26	19+71.87	LT	BOX BEAM END SECTION, TYPE 1	606.120102	EA	1	1
19+71.87	20+97.87	LT	BOX BEAM GUIDE RAILING	606.10	LF	126	1
19+71.87	20+97.87	LT	TIMBER RAIL ON BACK SIDE OF GUIDE POSTS	606.4001001	LF	126	1
20+97.87	21+15.09	LT	BOX BEAM END SECTION, TYPE IIA	606.120201	EA	1	1

TABLE OF CROSS SLOPES				
STATION		SIDE	SLOPE	COMMENTS
FROM	TO			
14+00	44+50	BOTH	1.50%	DOWN LEFT
45+50	48+50	BOTH	1.50%	DOWN RIGHT
48+50	70+00	BOTH	1.50%	DOWN LEFT
71+00	78+50	BOTH	1.50%	DOWN RIGHT

ITEM 209.13 (LF) SILT FENCE - TEMPORARY				
STATION	TO	STATION	SIDE	LENGTH
14+25		26+28	RT	1203
26+59		39+65	RT	1309
42+64		43+70	RT	104
43+89		45+90	RT	201
47+01		68+95	RT	2207
79+60		81+51	RT	193
17+50		26+33	LT	931
26+56		43+63	LT	1697
44+09		45+61	LT	150
50+38		73+15	LT	2283
TOTAL:				10,279.00

NORTHEAST NATIVE WILDFLOWER MIX			
PERCENTAGE	GENUS	SPECIES	COMMON NAME
25.7%	ECHINACEA	PURPUREA	PURPLE CONEFLOWER
13.0%	COREOPSIS	LANCEOLATA	LANCELEAF COREOPSIS
12.0%	CHAMAECRISTA	FASCICULATA, PA ECOTYPE	PARTRIDGE PEA, PA ECOTYPE
10.0%	RUDBECKIA	HIRTA, VT ECOTYPE	BLACKEYED SUSAN, VT ECOTYPE
7.0%	PENSTEMON	DIGITALIS, PA ECOTYPE	TALL WHITE BEARDTONGUE, PA ECOTYPE
5.5%	ASCLEPIAS	TUBEROSA	BUTTERFLY MILKWEED
4.0%	ASTER	LAEVIS, NY ECOTYPE	SMOOTH BLUE ASTER, NY ECOTYPE
3.0%	ASTER	NOVAE-ANGLIAE (SYMPHYOTRICHUM N.), PA ECOTYPE	NEW ENGLAND ASTER, PA ECOTYPE
3.0%	ASTER	PRENANTHOIDES, PA ECOTYPE	ZIGZAG ASTER, PA ECOTYPE
3.0%	MONARDA	FISTULOSA, FORT INDIANTOWN GAP-PA ECOTYPE	WILD BERGAMOT, FORT INDIANTOWN GAP-PA ECOTYPE
2.0%	AQUILEGIA	CANADENSIS	EASTERN COLUMBINE
2.0%	LIATRIS	SPICATA, PA ECOTYPE	(MARSH (DENSE) BLAZING STAR (SPIKED GAYFEATHER), PA ECOTYPE
1.8%	BAPTISIA	AUSTRALIS, SOUTHERN WV ECOTYPE	BLUE FALSE INDIGO, SOUTHERN WV ECOTYPE
1.5%	ZIZIA	AUREA, PA ECOTYPE	GOLDEN ALEXANDERS, PA ECOTYPE
1.0%	RUDBECKIA	FULGIDA VAR. FULGIDA, NORTHERN VA ECOTYPE	ORANGE CONEFLOWER, NORTHERN VA ECOTYPE
1.0%	RUDBECKIA	TRILOBA, WV ECOTYPE	BROWNIEYD SUSAN, WV ECOTYPE
1.0%	SENNA	HEBECARPA, VA & WV ECOTYPE	WILD SENNA, VA & WV ECOTYPE
1.0%	SENNA	MARILANDICA	MARYLAND SENNA
1.0%	SOLIDAGO	JUNCEA, PA ECOTYPE	EARLY GOLDENROD, PA ECOTYPE
0.5%	SOLIDAGO	NEMORALIS, PA ECOTYPE	GRAY GOLDENROD, PA ECOTYPE
0.5%	TRADESCANTIA	OHIENSIS, PA ECOTYPE	OHIO SPIDERWORT, PA ECOTYPE
0.3%	PENSTEMON	HIRSUTUS	HAIRY BEARDTONGUE
0.2%	BAPTISIA	TINCTORIA, PA ECOTYPE	YELLOW FALSE INDIGO (HORSEFLYWEED), PA ECOTYPE

TABLE OF SLOPES				
STATION	TO	STATION	LEFT SLOPE	RIGHT SLOPE
14+00		16+50	1:4	1:4
17+00		18+50	1:4	1:2
19+00		30+50	1:4	1:4
31+00		31+90	1:4	1:2
31+90		36+00	1:2	1:2
36+00		44+50	1:4	1:4
44+50		45+90	1:4	1:2
45+90		47+00	1:4	—
47+00		48+50	1:4	1:4
48+50		50+50	1:2	1:2
50+50		55+00	1:4	1:4
55+50		64+50	1:3	1:3
65+00		66+00	1:3	1:2
66+50		68+75	1:4	1:2
69+00		70+00	1:2	1:3
70+50		72+50	1:2	1:4
72+75		81+51	1:4	1:4

TABLE OF TREE REMOVALS				
SHEET	ITEM			
	614.060104	614.060204	614.060304	614.060404
GNP-01			1	
GNP-02			13	1
GNP-07		35	10	
GNP-08	6	30		
GNP-09	10	14		
GNP-10	44			
GNP-11		58	6	
GNP-12	1			
* Diameter Breast Height				

1. This table contains approximate locations, removals of trees shall be confirmed by contractor and engineer after survey, and verified against limits of disturbance.
2. Previously fallen trees located within the limits of disturbance shall be paid under Clearing and Grubbing Item 201.06.

TABLE OF RIGHT OF WAY ACQUISITIONS													
TRN	MAP NO.	PARCEL NO.	REPUTED OWNER	TAX MAP OR SECTION	BLOCK	PARCEL	DEED REFERENCE			AREA ± SF			REMARKS
							INSTRUMENT ID NO.	LIBER	PAGE	FEE	P.E.	T.E.	
	1	1	DIANA LONGHITANO	87.1	2	23.1		2168	344		29,764		
	1	5	DIANA LONGHITANO	87.1	2	23.1		2168	338		29,826		
	2	3	HIGHLAND WOODS LLC	87.1	2	23.2		5941	319		94,509		
	3	4	MATHEW M & NORMA R MURPHY	87.1	2	10.2		3638	68		34,323		
	4	6	RALPH LUDWIG	87.1	2	12		2224	20		15,562		
	5	7	TOWN OF LLOYD	87.2	8	8.211		2208	35		30,000		

AFFIX SEAL:
ON:

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4
COUNTY: ULSTER REGION: 8

PIN 8761.21

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

MISCELLANEOUS TABLES

DRAWING NO. MST-1

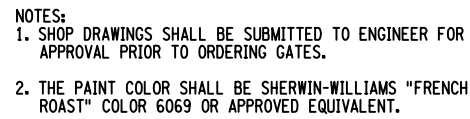
SHEET NO. 13



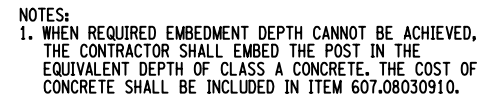
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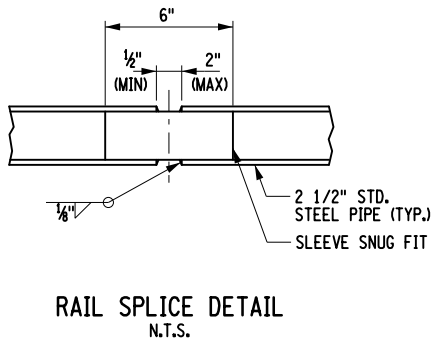
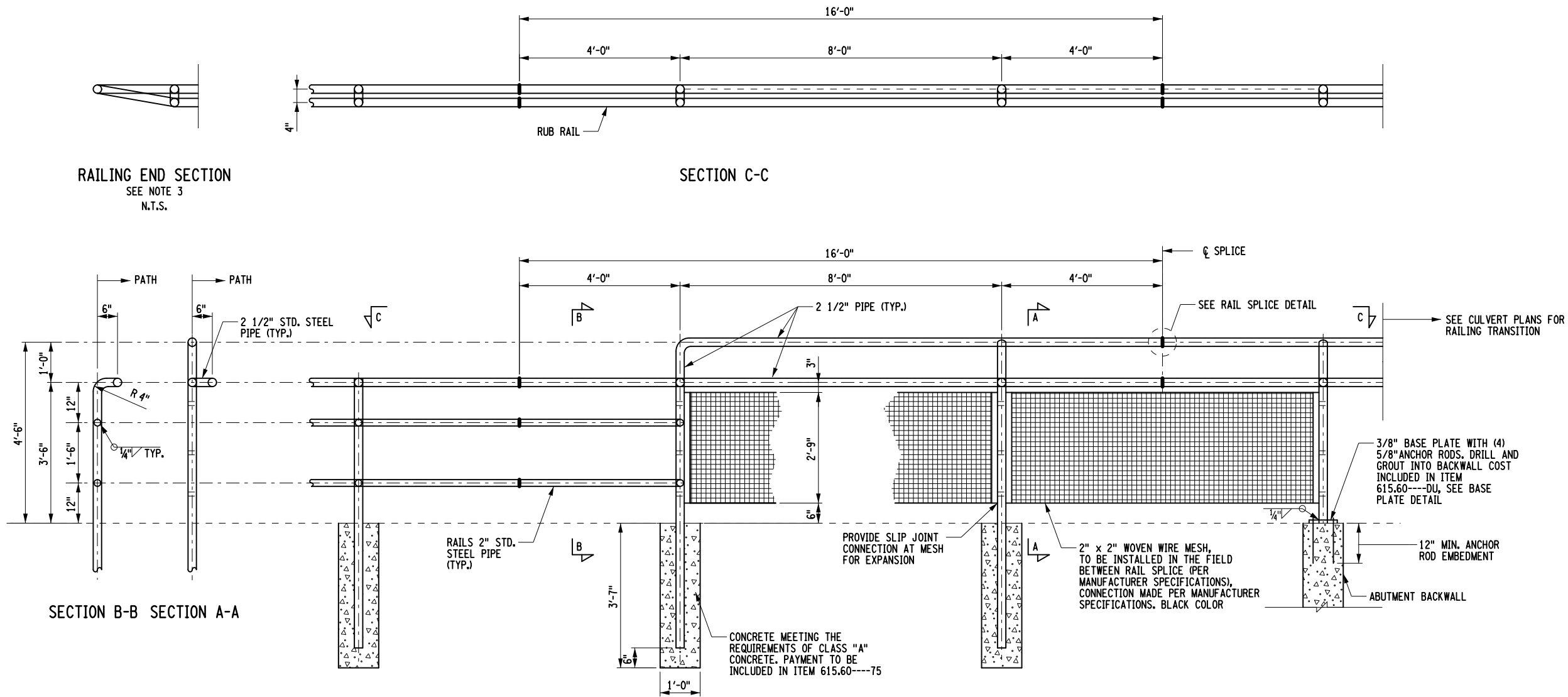
AFFIX SEAL: ON:	ALTERED BY: ON:



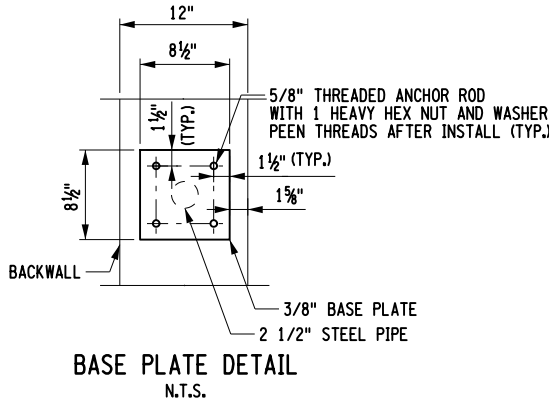
AS-BUILT REVISIONS: DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
					MISCELLANEOUS DETAILS	DRAWING NO. MSD-01
COUNTY: ULSTER	REGION: 8				SHEET NO. 14	
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					<div><div>BEACON, NEW YORK 12508 (845) 838-3600 www.hveapc.com</div></div>	<div><div>Ulster County ulstercountyny.gov</div></div>

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USER = Catherine

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DESIGN L. BACH
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON



ITEM 607.60010001 - STEEL BICYCLE RAILING
N.T.S.






NOTES:

1. ALL STEEL SHALL HAVE BLACK POWDER COAT FINISH.
2. ALL STD. STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B.
3. ANGLE RUB RAIL BACK TO STRAIGHT POST ON END SECTION.
4. THE FIRST TWO SECTIONS OF BICYCLE RAILING FROM THE CULVERT SHALL BE THE 4.5' BICYCLE RAILING WITH THE WOVEN MESH. ALL OTHER SECTIONS SHALL BE THE 3.5' BICYCLE RAILING WITH 3 RAILS.
5. ALL FENCE POSTS SHALL BE SET IN CONCRETE BASES.

AFFIX SEAL: ON:	ALTERED BY: ON:


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
					MISCELLANEOUS DETAILS	DRAWING NO. MSD-02 SHEET NO. 15
	COUNTY: ULSTER REGION: 8					

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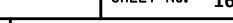


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COUNTY: ULSTER	REGION: 8			SHEET NO. 16		

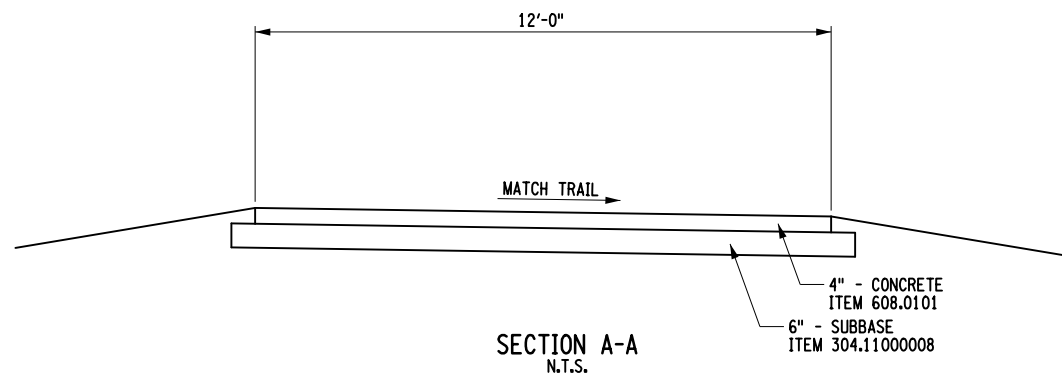
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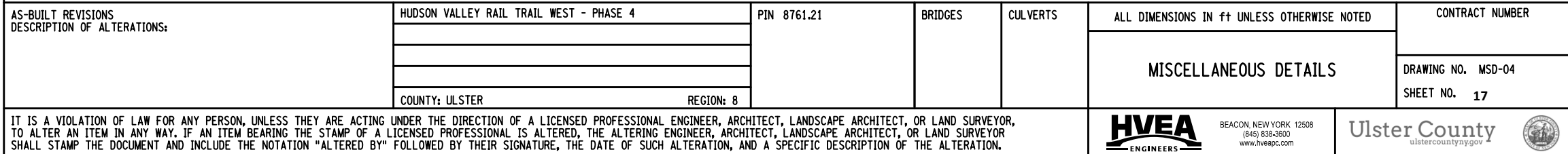
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AFFIX SEAL: ON:	ALTERED BY: ON:

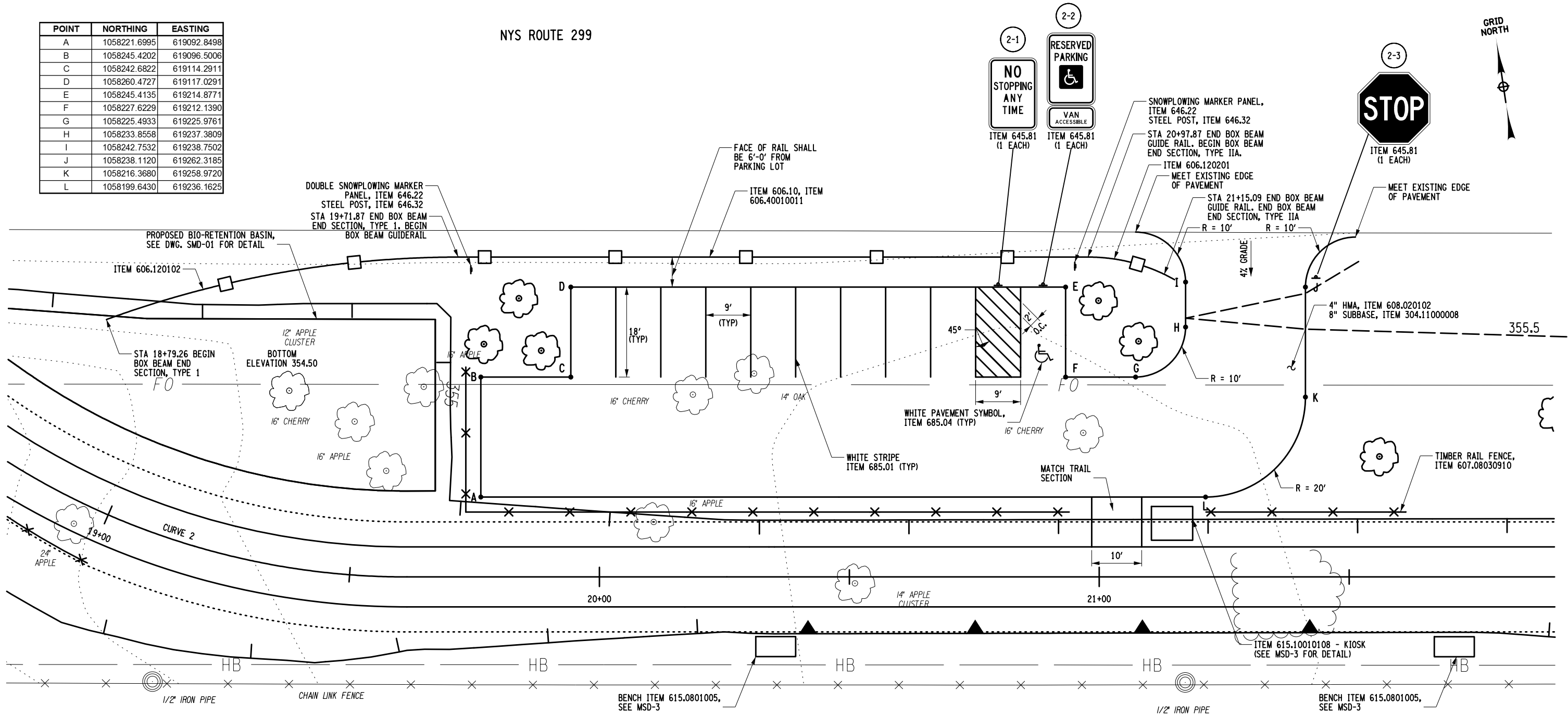


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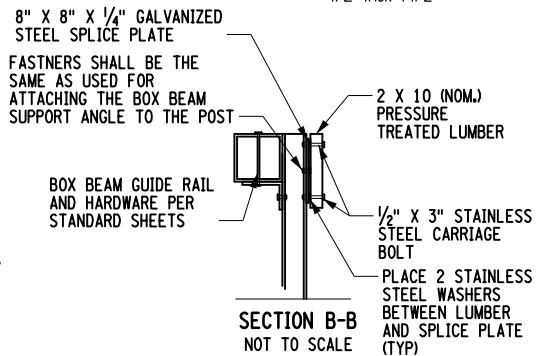
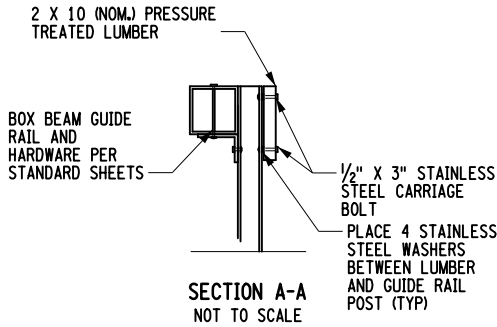
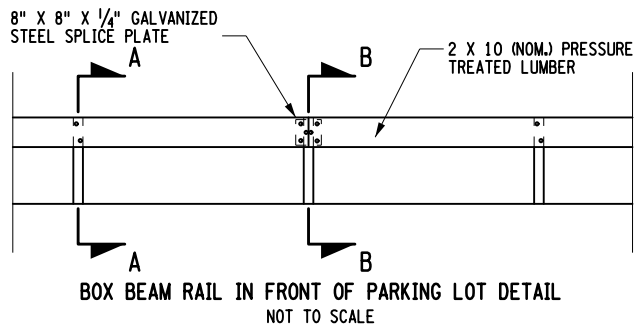
DESIGN SUPERVISOR B. FITZGERALD
JOB MANAGER J. GORTON
DESIGN L. BACH
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON

POINT	NORTHING	EASTING
A	1058221.6995	619092.8498
B	1058245.4202	619096.5006
C	1058242.6822	619114.2911
D	1058260.4727	619117.0291
E	1058245.4135	619214.8771
F	1058227.6229	619212.1390
G	1058225.4933	619225.9761
H	1058233.8558	619237.3809
I	1058242.7532	619238.7502
J	1058238.1120	619262.3185
K	1058216.3680	619258.9720
L	1058199.6430	619236.1625

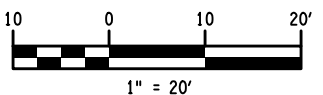
NYS ROUTE 299



- GENERAL NOTES:
1. PARKING LOT SHALL BE GRADED TO MATCH EXISTING TOPOGRAPHY AND PROVIDE POSITIVE DRAINAGE.



- GUIDERAIL NOTES:
1. MATERIALS USED SHALL BE IN CONFORMANCE WITH THE APPROPRIATE NYSOT STANDARD SPECIFICATIONS.
 2. ALL STAINLESS STEEL HARDWARE SHALL BE IN CONFORMANCE WITH SECTION 715 OF THE NYSOT STANDARD SPECIFICATIONS.
 3. GALVANIZED SPLICE PLATE SHALL MEET THE SAME MATERIAL SPECIFICATIONS AS REQUIRED FOR THE RAIL POST SOIL PLATES.
 4. COST FOR MOUNTING LUMBER TO BACK OF POST TO BE INCLUDED IN ITEM 606.40010011.



AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4

PIN 8761.21

BRIDGES

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

CONTRACT NUMBER

COUNTY: ULSTER

REGION: 8

MISCELLANEOUS DETAILS

DRAWING NO. MSD-05

SHEET NO. 18

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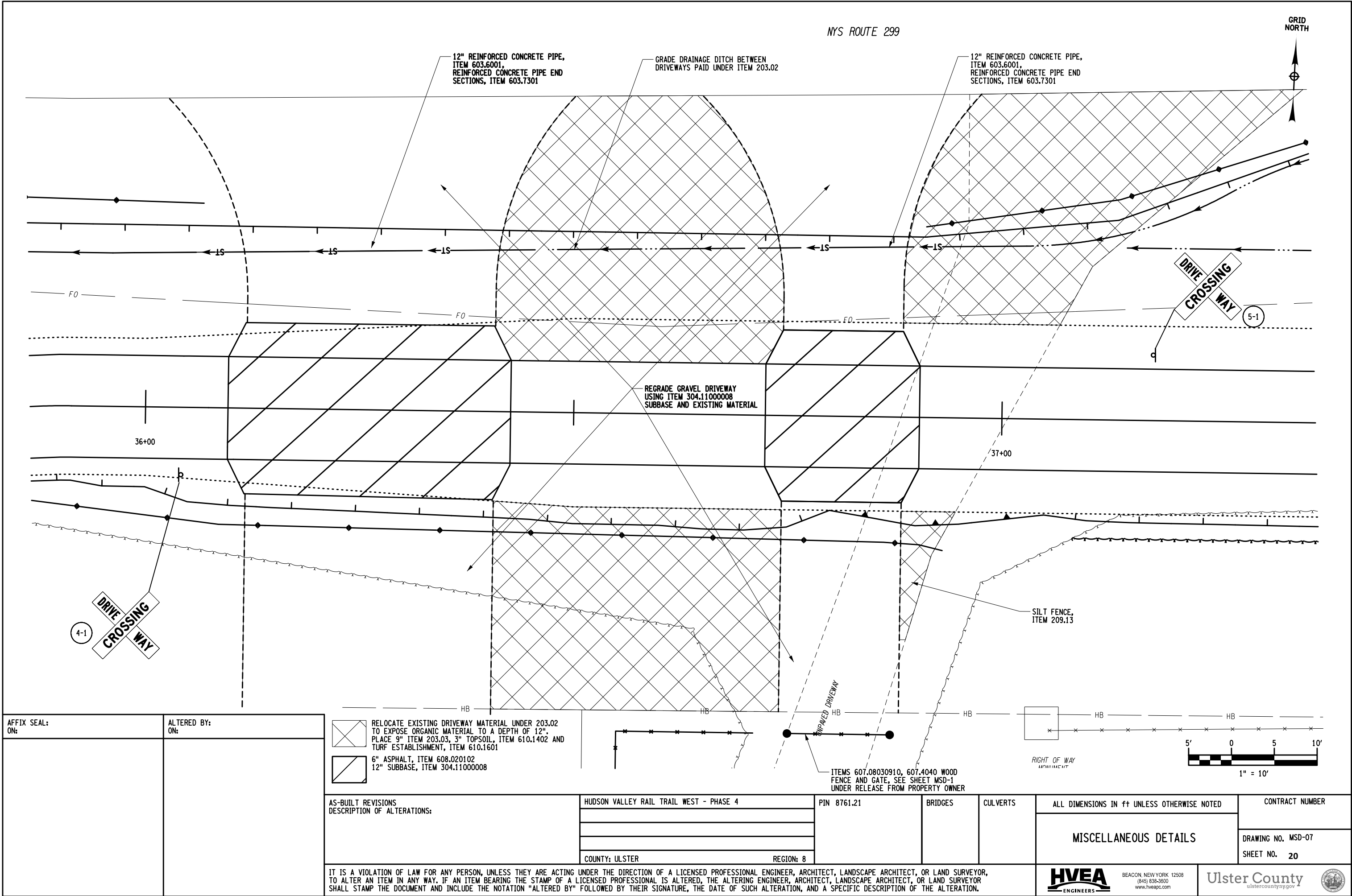
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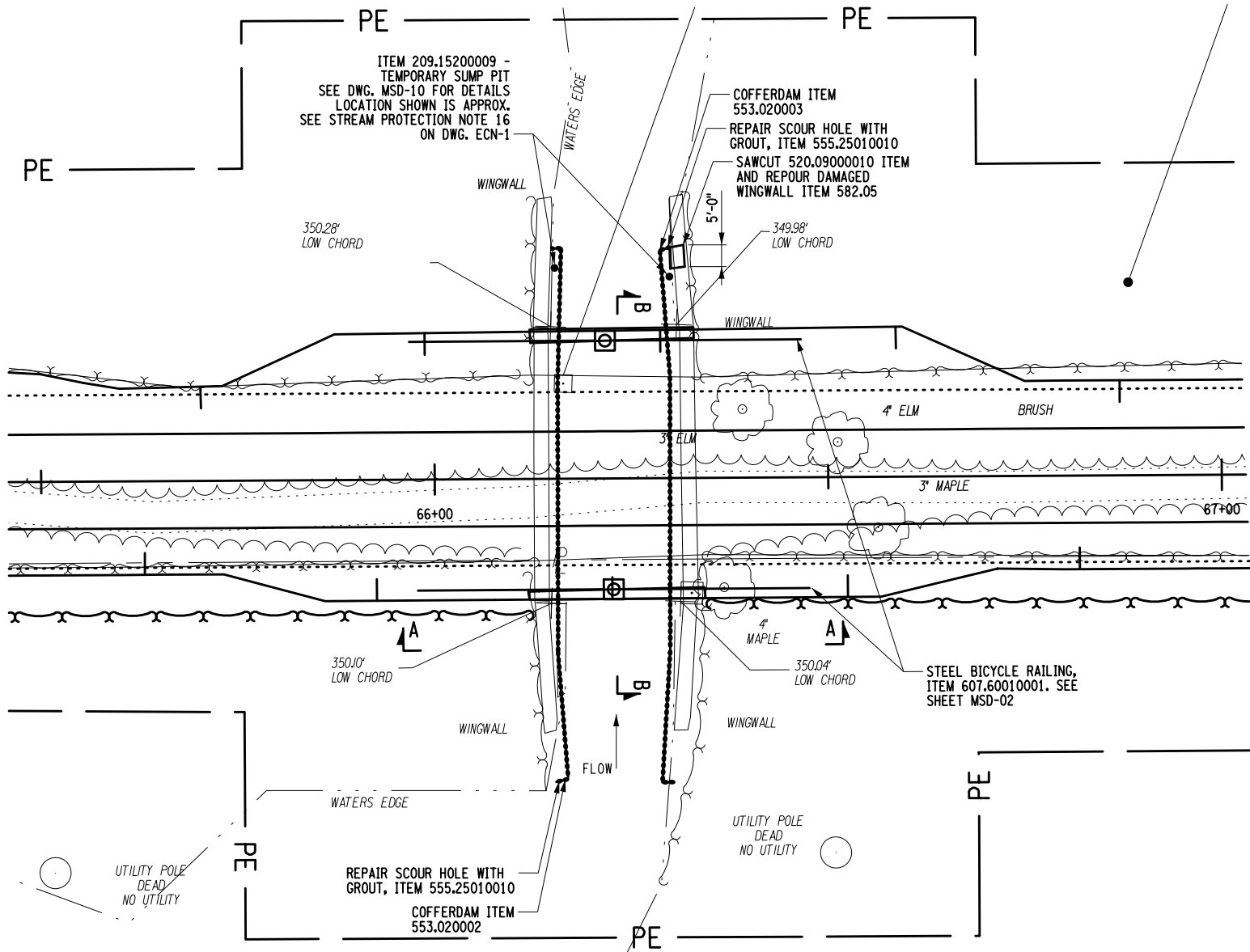
DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH CHECK J. GORTON DRAFTING K. FISCHER CHECK L. BACH PROJECT MANAGER J. GORTON



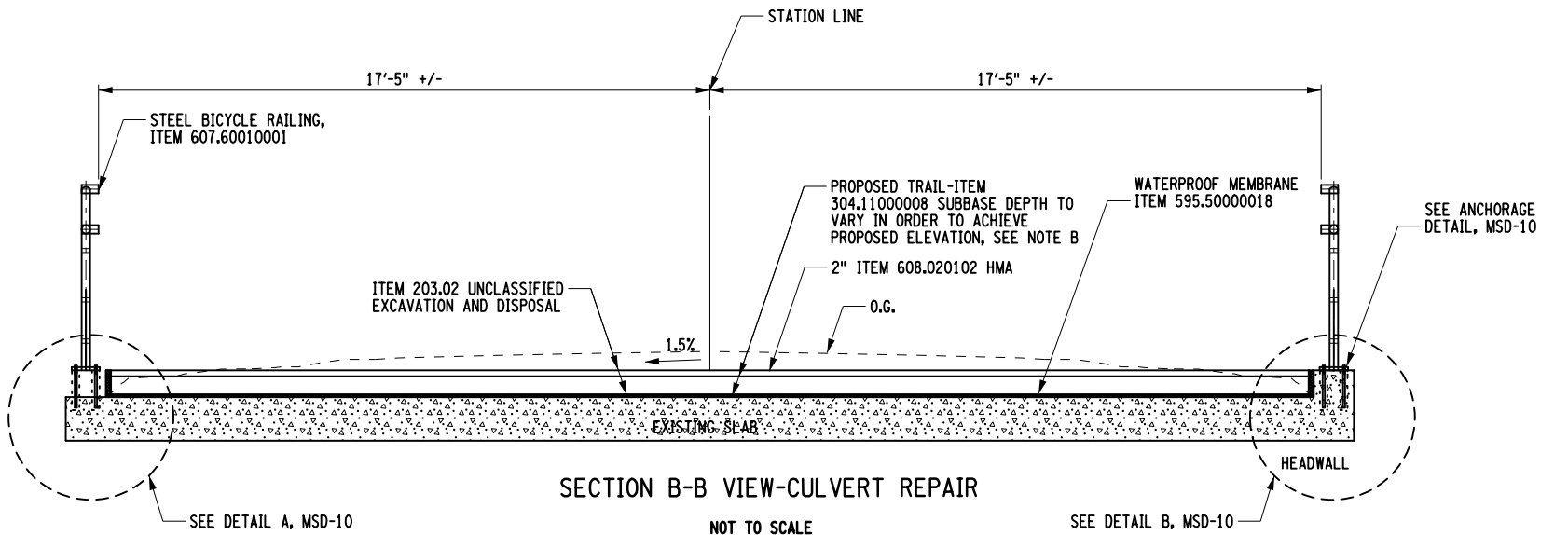
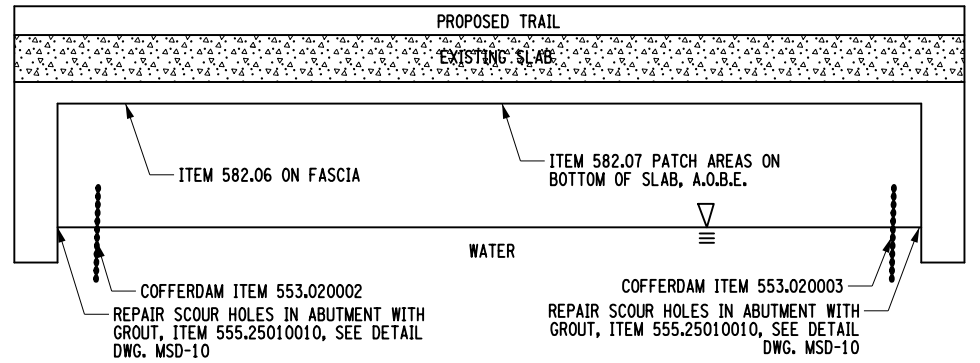


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DATE/TIME = 20-DEC-2017 09:58
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JOB MANAGER J. GORTON
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON



- NOTE A:
ALL IN-STREAM WORK TO BE IN COMPLIANCE WITH NYSDEC PERMIT.
- NOTE B:
PRIOR TO WATERPROOF MEMBRANE AND TRAIL CONSTRUCTION, ALL MATERIAL ON TOP OF CULVERT IS TO BE REMOVED, CONCRETE SLAB CLEARED AND REPAIRED ABOVE.
- NOTE C:
COST OF ALL BRIDGE RAILING, CONCRETE ANCHOR BOLTS, BASE PLATES, AND ANY DRILLING AND GROUTING SHALL BE INCLUDED IN THE BRIDGE RAILING ITEM 607.60010001.
- NOTE D:
NO MACHINERY SHALL BE USED WITHIN STREM, COFFERDAM TO BE PLACED BY HAND.



AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4

PIN 8761.21

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

MISCELLANEOUS DETAILS

DRAWING NO. MSD-09

SHEET NO. 22

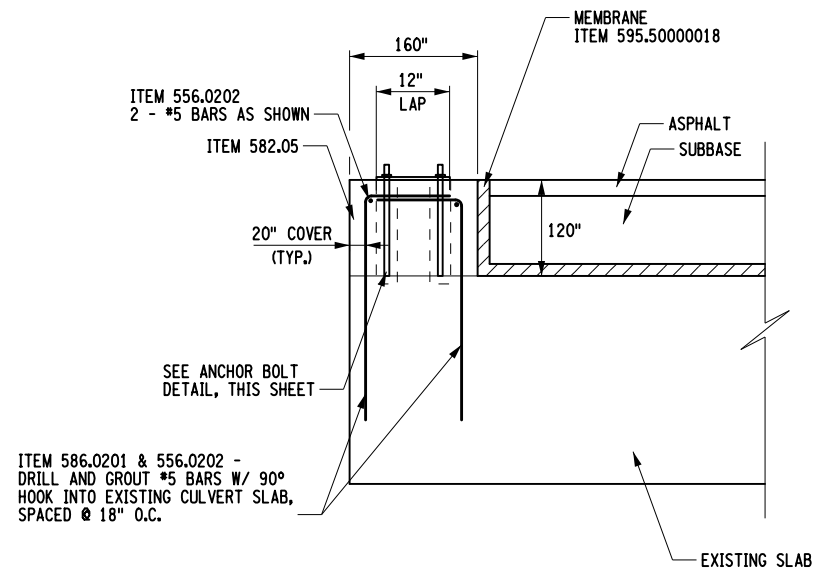
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HVEA
ENGINEERS

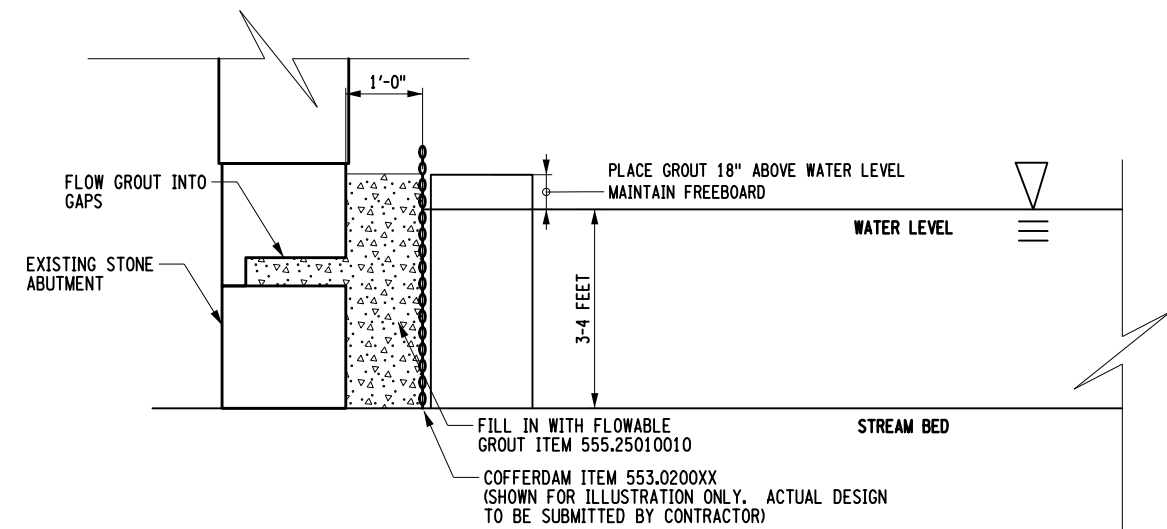
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1/2" (TYP.) THE PORTION OF THE ANCHOR STUD STICKING UP MORE THAN 1/2" SHALL BE REMOVED AFTER NUT HAS BEEN TIGHTENED TO THE SATISFACTION OF THE ENGINEER.

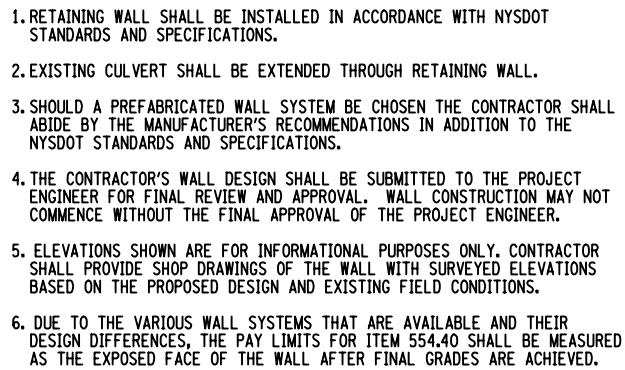





NOTE:

-
- A cross-sectional diagram of a well system. A pump is located on the left, connected to a vertical discharge hose. The hose leads down to a vertical pipe with horizontal slots (perforated pipe). The pipe is surrounded by a layer of stone. The bottom of the stone layer is labeled "12" (MIN.) OUTSIDE OF PIPE IT PIT". The stone layer is labeled "#2 STONE OR EQUIVALENT". The ground water table is indicated by a line with the label "GROUND WATER TABLE". Dimensions include "12\"

1. PIT DIMENSIONS ARE OPTIONAL.
2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12" TO 24" DIAMETER CORRUGATED OR PVC PIPE.
3. A BASE OF 2" AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE STANDPIPE SHOULD BE BACKFILLED WITH 2" AGGREGATE.
4. THE STANDPIPE SHOULD EXTEND 12" TO 18" ABOVE THE LIP OF THE PIT.
5. THE STANDPIPE SHOULD BE WRAPPED WITH FILTERCLOTH BEFORE INSTALLATION, IF DESIRED, 1/4" TO 1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE, PRIOR TO ATTACHING THE FILTERCLOTH.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
					MISCELLANEOUS DETAILS	DRAWING NO. MSD-10
COUNTY: ULSTER	REGION: 8			SHEET NO. 23		
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
					WALL PROFILE	DRAWING NO. WAL-1 SHEET NO. 24
COUNTY: ULSTER	REGION: 8	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.		 BEACON, NEW YORK 12508 (845) 838-3600 www.hveapc.com	 Ulster County ulstercountyny.gov	

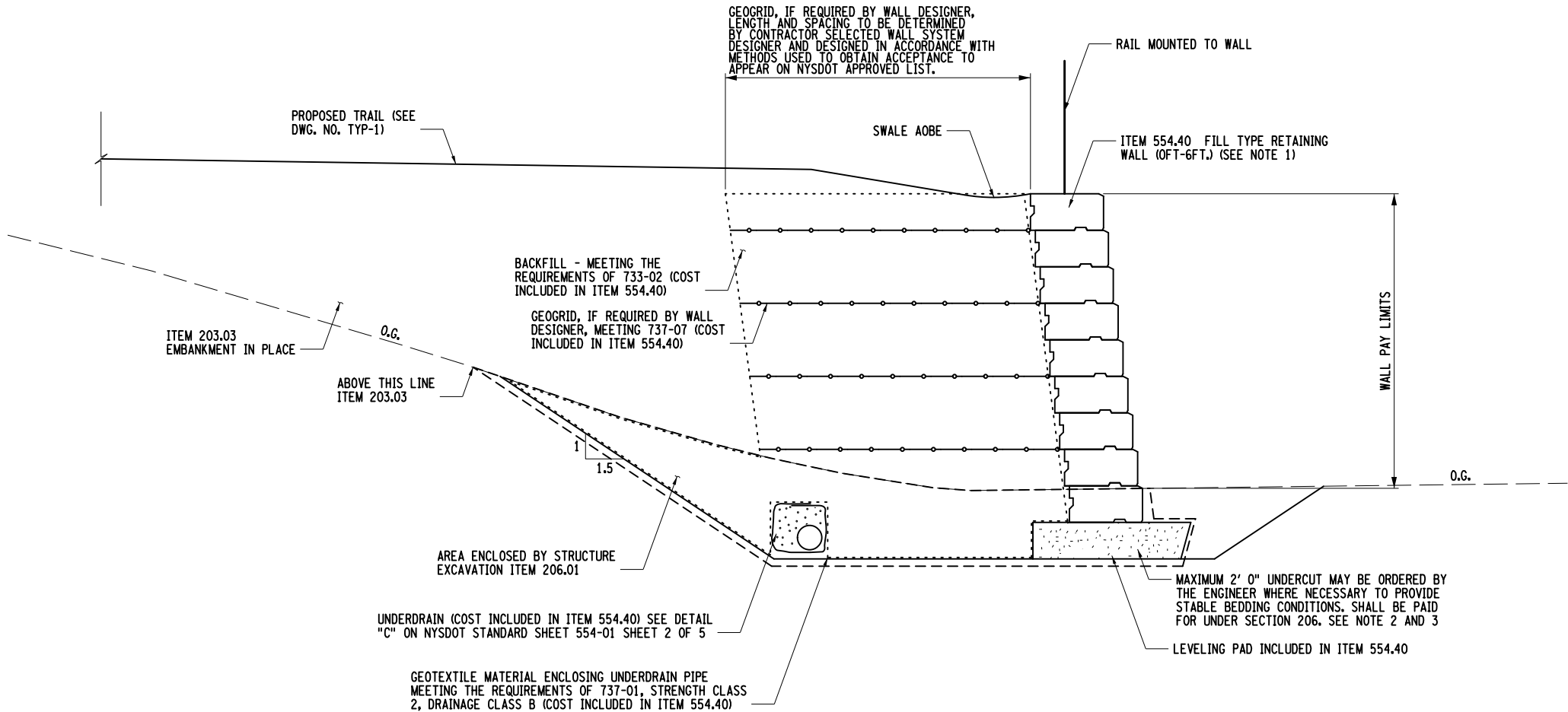
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DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH DRAFTING K. FISCHER CHECK J. GORTON CHECK L. BACH PROJECT MANAGER J. GORTON

NOTES:


1. WALL SHALL HAVE A NATURAL STONE FINISH, BLUE/GREY COLOR. PRIOR TO WALL CONSTRUCTION A SAMPLE OF THE WALL FINISH AND COLOR SHALL BE SUBMITTED TO THE EIC AND COUNTY FOR APPROVAL.
2. IF UNDERCUTTING IS ORDERED, THE LIFT THICKNESS AND COMPACTION REQUIREMENTS FOR SELECT GRANULAR FILL SHALL BE DIRECTED BY THE ENGINEER.
3. THE ENGINEER SHALL BE CONSULTED IF IT APPEARS THAT UNDERCUTTING BEYOND THE 2'-0" MAXIMUM DEPTH MAY BE NEEDED. SPECIAL CONSTRUCTION PROCEDURES AND DETAILS WILL BE SHOWN IN THE CONTRACT DOCUMENTS WHEN WALLS ARE LOCATED IN THE AREAS WHERE UNSUITABLE MATERIAL EXISTS.
4. A SURCHARGE LOAD SHALL BE APPLIED BEHIND THE WALL FOR DESIGN THAT EQUALS 75 PSF.
5. THE TOP BLOCK SHALL BE DESIGNED TO ACCOMODATE THE RAILING SYSTEM.

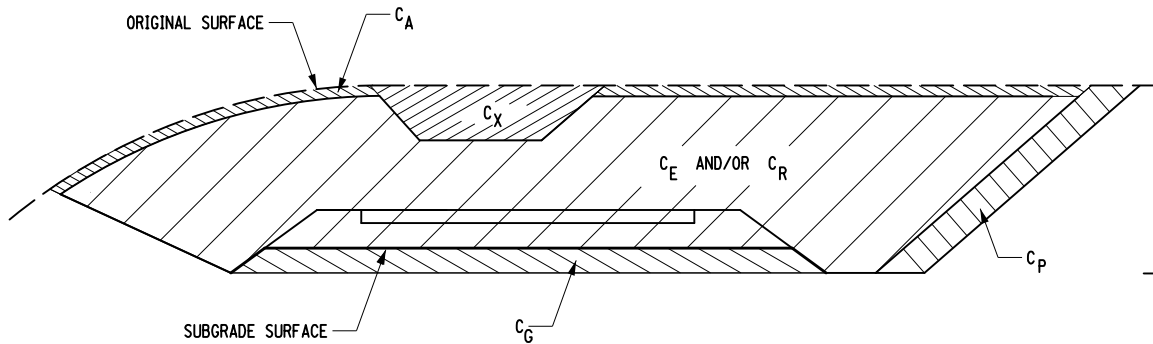
LEGEND
LIMIT OF ITEM 206.01 — —



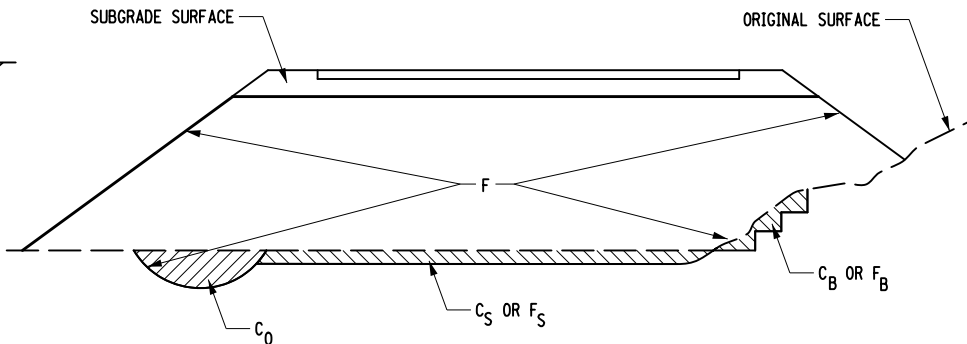
FILL TYPE RETAINING WALL TYPICAL SECTION - REINFORCED WALL - ITEM 554.40
N.T.S.
APPROXIMATE STA. 45+90 TO STA. 47+00

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
					WALL DETAILS		
							DRAWING NO. WAL-2
	COUNTY: ULSTER REGION: 8				SHEET NO. 25		
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					<div><div><div>HVEA</div><div>ENGINEERS</div></div><div>BEACON, NEW YORK 12508 (845) 638-3600 www.hveapc.com</div></div>		<div>Ulster County</div> <div>ulstercountyny.gov</div> <div></div>



CUT SECTION



FILL SECTION

DEFINITIONS:

- C_B - EXCAVATION FOR REQUIRED BENCHING, (BOTH LONGITUDINAL AND TRANSVERSE).
 C_G - EXCAVATION FOR SUBGRADE IMPROVEMENT.
 C_P - EXCAVATION FROM CUT SLOPE NECESSARY TO PLACE SLOPE PROTECTION.
 C_E - PORTION OF CUT ASSUMED TO BE EARTH SUITABLE FOR EMBANKMENT CONSTRUCTION, EXCLUDING C_G AND C_P .
 T_E - ($C_B + C_G + C_P + C_E$) TOTAL EARTH EXCAVATION ASSUMED SUITABLE FOR EMBANKMENT CONSTRUCTION.
- C_A - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) IN CUT.
 C_S - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) UNDER EMBANKMENT.
 C_X - EXCAVATION OF UNSUITABLE MATERIAL IN CUT: SWAMP OR DUMP
 C_0 - EXCAVATION OF UNSUITABLE MATERIAL BENEATH EMBANKMENT: SWAMP OR DUMP
 T_U - ($C_A + C_S + C_X + C_0$) TOTAL EXCAVATION ASSUMED UNSUITABLE FOR EMBANKMENT CONSTRUCTION.
- C_R - PORTION OF CUT ASSUMED TO BE ROCK, INCLUDING C_G IF APPLICABLE.
- C_T - ($T_E + T_U + C_R$) TOTAL EXCAVATION.

DEFINITIONS:

- F_B - FILL REQUIRED TO REPLACE BENCHES.
 F_S - FILL REQUIRED TO REPLACE TOPSOIL REMOVED BENEATH EMBANKMENTS.
 F - FILL REQUIRED TO COMPLETE EMBANKMENT TO SUBGRADE SURFACE AND SIDE-SLOPES AFTER FOUNDATION IS PREPARED.
 F_T - ($F_B + F_S + F$) TOTAL FILL REQUIRED.
- T_A - ($T_E \times F_E + C_R \times F_R$) THE VOLUME WHICH THE SUITABLE EXCAVATED MATERIAL COULD OCCUPY IN EMBANKMENT.
- F_E - SHRINKAGE FACTOR FOR EARTH
 F_R - SWELL FACTOR FOR ROCK

NOTES:

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE TABLES ARE ESTIMATED, AND ARE PROVIDED FOR THE PURPOSE OF PREPARING AN ESTIMATE. THEY ARE NOT TO BE CONSTRUED AS BEING EXACT. THEY ARE INTENDED TO QUANTIFY AND QUALIFY THE NATURE OF THE WORK TO BE PERFORMED. SIGNIFICANT DIFFERENCE FROM THIS REPRESENTATION, WHEN ENCOUNTERED DURING THE ACTUAL WORK, WILL BE HANDLED ACCORDING TO THE SPECIFICATIONS GOVERNING THIS PROJECT.
- 203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL
203.03 EMBANKMENT IN PLACE
206.0201 TRENCH AND CULVERT EXCAVATION

SUMMARY OF EARTHWORK
(ITEMS 203.02 AND 203.03 ONLY)

SOURCE	EXCAVATION			ITEM 203.02	ITEM 203.03
	T_E	C_R	T_U	C_T	F_T
14+25 TO 19+25	58.1	8.3	16.6	83.0	637.0
19+25 TO 24+25	121.1	17.3	34.6	173.0	184.0
24+25 TO 29+25	28.7	4.1	8.2	41.0	413.0
29+25 TO 34+25	13.3	1.9	3.8	19.0	598.0
34+25 TO 39+25	45.5	6.5	13.0	65.0	116.0
39+25 TO 44+25	35.0	5.0	10.0	50.0	279.0
44+25 TO 49+25	58.8	8.4	16.8	84.0	490.0
49+25 TO 54+25	249.2	35.6	71.2	356.0	398.0
54+25 TO 59+25	79.1	11.3	22.6	113.0	290.0
59+25 TO 64+25	135.1	19.3	38.6	193.0	97.0
64+25 TO 69+25	70.0	10.0	20.0	100.0	143.0
69+25 TO 74+25	49.7	7.1	14.2	71.0	544.0
74+25 TO 79+25	333.9	47.7	95.4	477.0	24.0
79+25 TO 81+51	135.8	19.4	38.8	194.0	9.0
TOTALS	1413.3	201.9	403.8	2019.0	4204.0

SUMMARY OF TRENCH AND CULVERT EXCAVATION
(ITEM 206.0201 ONLY)

SOURCE	EXCAVATION		ITEM 206.0201
	ROCK	NON-ROCK	
CLOSED DRAINAGE	2.84	283.6	284.0
CONCRETE HEADWALL	0.18	1.62	1.8
TOTALS			

AFFIX SEAL: ON:	ALTERED BY: ON:
<div></div>	

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4

PIN 8761.21

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

EARTHWORK SUMMARY SHEETS

DRAWING NO. ESS-1

SHEET NO. 26

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SUBDIVISION NO.	SOURCE STATION TO STATION	SUITABLE EXCAVATION					ROCK	UNSUITABLE EXCAVATION					TOTAL EXCAVATION	EMBANKMENT			
		CB	CG	CP	CE	TE	CR	CA	CS	CX	CO	TU	CT	FB	FS	F	FT
1	14+25 TO 19+25					58.1	8.3					16.6	83				637
2	19+25 TO 24+25					121.1	17.3					34.6	173				184
3	24+25 TO 29+25					28.7	4.1					8.2	41				413
4	29+25 TO 34+25					13.3	1.9					3.8	19				598
5	34+25 TO 39+25					45.5	6.5					13	65				116
6	39+25 TO 44+25					35	5					10	50				279
7	44+25 TO 49+25					58.8	8.4					16.8	84				490
8	49+25 TO 54+25					249.2	35.6					71.2	356				398
9	54+25 TO 59+25					79.1	11.3					22.6	113				290
10	59+25 TO 64+25					135.1	19.3					38.6	193				79
11	64+25 TO 69+25					70	10					20	100				143
12	69+25 TO 74+25					49.7	7.1					14.2	71				544
13	74+25 TO 79+25					333.9	47.7					95.4	477				24
14	79+25 TO 81+51					135.8	19.4					38.8	194				9

NOTES:

1. FOR DEFINITIONS SEE DWG. ESS-1.
2. ALL QUANTITIES ARE IN CY UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE TABLES ARE ESTIMATED, AND ARE PROVIDED FOR THE PURPOSE OF PREPARING AN ESTIMATE. THEY ARE NOT TO BE CONSTRUED AS BEING EXACT. THEY ARE INTENDED TO QUANTIFY AND QUALIFY THE NATURE OF THE WORK TO BE PERFORMED. SIGNIFICANT DIFFERENCE FROM THIS REPRESENTATION, WHEN ENCOUNTERED DURING THE ACTUAL WORK, WILL BE HANDLED ACCORDING TO THE SPECIFICATIONS GOVERNING THIS PROJECT.
4. DUE TO LACK OF SUBSURFACE INFORMATION, QUANTITIES OF ROCK AND UNSUITABLE MATERIAL ARE ASSUMED BASED ON PERCENTAGE OF TOTAL CALCULATED EXCAVATION.

5. THE CONTRACTOR SHALL BE AWARE THAT ROCK EXCAVATION SHALL BE CLASSIFIED AS EXCAVATION WHERE IT IS IMPOSSIBLE TO REMOVE ROCK WITH A 3/4 CUBIC YARD EXCAVATOR OR BACKHOE. THE CONTRACTOR MUST USE A NON-EXPLOSIVE METHOD ACCEPTABLE TO THE ENGINEER.

THE QUANTITY TO BE PAID FOR WILL BE THE NUMBER OF CUBIC YARDS OF ROCK EXCAVATED, 6" BEYOND THE LIMIT OF THE STRUCTURE AND 6" BELOW THE BASE AND FOR TRENCHES IT WILL BE MEASURED 10" BEYOND THE PIPE WALLS ON EITHER SIDE AND 6" BELOW THE PIPE, OR WHERE CHANGES HAVE BEEN ORDERED BY THE ENGINEER. BOULDERS AND LOOSE SHALE OR OTHER LEDGE ROCK WHICH CAN BE REMOVED BY RIPPING AND DIGGING WITH A 3/4 CUBIC YARD EXCAVATOR OR BACKHOE WILL NOT BE CONSIDERED ROCK EXCAVATION.

AFFIX SEAL: ON:		ALTERED BY: ON:															
		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		HUDSON VALLEY RAIL TRAIL WEST - PHASE 4		PIN 8761.21		BRIDGES		CULVERTS		ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED		CONTRACT NUMBER			
												EARTHWORK SUMMARY SHEETS		DRAWING NO. ESS-2			
														SHEET NO. 27			
						COUNTY: ULSTER REGION: 8											
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GENERAL NOTES FOR SOIL EROSION PREVENTION AND SEDIMENT CONTROL

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THROUGHOUT THE DURATION OF THE CONTRACT IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL AREAS POTENTIALLY SUBJECT TO SEDIMENT LADEN RUNOFF FROM WATER BORNE SEDIMENT OR POLLUTANTS ORIGINATING FROM ANY WORK DONE, ON, OR IN SUPPORT OF THIS PROJECT. THE GENERAL NOTES FOR SOIL EROSION PREVENTION AND SEDIMENT CONTROL AND DETAILS SHOWN IN THESE DRAWINGS AND THOSE PROVIDED IN THE RESPECTIVE NYSDOT STANDARD SHEETS ARE NOT INTENDED TO BE ALL INCLUSIVE BUT TO SERVE AS A GUIDELINE FOR THE DEVELOPMENT OF THE CONTRACTOR'S EROSION CONTROL SCHEME REQUIRED UNDER SECTION 107-12 OF THE STANDARD SPECIFICATIONS.

THE PURPOSE OF SECTION 209 IS TO PROTECT ABUTTING PROPERTY, WATER COURSES, PONDS, DITCHES, WETLANDS, ETC., FROM THE DETRIMENTAL EFFECTS OF SOIL EROSION AND/OR SEDIMENT ORIGINATING FROM WITHIN THE WORK LIMITS AND/OR FROM AREAS SPECIFICALLY DESIGNATED FOR CONTRACTUAL OPERATIONS BY THE COUNTY. PAYMENT WILL BE MADE UNDER APPLICABLE 209 ITEMS FOR TEMPORARY CONTROL WORK DONE BY THE CONTRACTOR IN ACCORDANCE WITH THE PRE-APPROVED SCHEME, OR A.O.B.E., TO PROTECT PRIVATE PROPERTY, WATER COURSES, PONDS, DITCHES, ETC. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT HIS/HER OWN WORK AT NO ADDITIONAL COST TO THE COUNTY, IN ACCORDANCE WITH THE PROVISIONS OF SECTIONS 107, 203, 206, AND/OR 209 OF THE STANDARD SPECIFICATIONS.

1. THE CONTRACTOR SHALL COMPLY WITH ALL THE PROVISIONS OF THE APPLICABLE PERMITS OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) MANUAL TITLED THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (AKA THE BLUE BOOK).
2. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF STREAMS BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE LEACHATE OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION AND CONSTRUCTION PROCEDURE.
3. INSPECTION OF SOIL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE NYSDEC SPDES GENERAL PERMIT OF CONSTRUCTION STORMWATER DISCHARGES GP-0-15-002. AT A MINIMUM, INSPECTIONS SHALL BE PERFORMED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EVERY STORM EVENT OF 0.5 INCHES OR A.O.B.E.. REPAIRS SHALL BE MADE AS NEEDED AND SEDIMENT SHALL BE REMOVED WHEN THE STORAGE VOLUME OF AN EROSION CONTROL MEASURE IS APPROACHING ONE HALF OF ITS INTENDED CAPACITY OR A.O.B.E.. THE COST OF CLEANING AND REMOVING TEMPORARY SOIL EROSION AND WATER POLLUTION DEVICES SHALL BE INCLUDED IN THE BID PRICE FOR THE INSTALLATION OF THAT ITEM. THE COUNTY IS ALSO RESPONSIBLE TO HAVE A QUALIFIED INSPECTOR CONDUCT SITE INSPECTIONS IN ACCORDANCE WITH THE GENERAL PERMIT AT LEAST EVERY SEVEN CALENDAR DAYS. THE QUALIFIED INSPECTOR IS TO PREPARE AN INSPECTION REPORT (NYSDOT MURK 6) AND NOTIFY THE OWNER AND CONTRACTOR OF ANY CORRECTIVE ACTIONS THAT NEED TO BE TAKEN. THE CONTRACTOR SHALL BEGIN IMPLEMENTING CORRECTIVE ACTIONS WITHIN ONE BUSINESS DAY AND SHALL COMPLETE CORRECTIVE ACTIONS IN A REASONABLE TIME FRAME.
4. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO AN APPROPRIATE UPLAND AREA FOR DISPOSAL.
5. ALL DREDGED AND EXCAVATED MATERIAL SHALL BE DISPOSED OF ON AN UPLAND SITE AND BE SUITABLY STABILIZED SO THAT IT CANNOT RE-ENTER ANY WATER BODY OR WETLAND AREA.
6. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A WATER BODY, ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSES THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM STREAMS, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM TO PROTECT AND MAINTAIN STREAM WATER QUALITY. ALL STREAM CHANNEL WORK SHALL BE LIMITED TO WITHIN THE DESIGNATED ROW.
7. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATER OF THE UNITED STATES.
8. ANY SCHEME PROPOSED BY THE CONTRACTOR TO ACCOMPLISH EROSION PREVENTION AND SEDIMENT CONTROL SHALL BE SUBJECT TO THE APPROVAL BY THE E.I.C..
9. IN THE EVENT GRAVEL BAG CHECK DAMS ARE USED INSTEAD OF TEMPORARY STONE CHECK DAMS, GRAVEL BAGS SHALL BE AS DESCRIBED IN SECTION 209-2.09 OF THE NYSDOT STANDARDS AND SPECIFICATIONS EXCEPT THAT ONLY GRAVEL FILL IS ACCEPTABLE. GRAVEL FILL SHALL BE FREE OF SILT AND GRAVEL BAGS WILL BE REMOVED IN THEIR ENTIRETY AT THE COMPLETION OF THE PROJECT. NO SAND BAGS WILL BE ALLOWED IN PLACE OF GRAVEL BAGS.

10. THE PROPOSED WORK WILL REQUIRE THAT THE TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL BE PLACED OVER THE COURSE OF THE PROJECT AND BE MAINTAINED OVER THE COURSE OF THE PROJECT AND NOT TO BE REMOVED UNTIL PERMANENT STABILIZATION IS ACHIEVED AS DEFINED BY THE SPDES GENERAL PERMIT.
11. THE SYMBOLS SHOWN ON THE DRAINAGE AND UTILITY PLAN REPRESENT THE EROSION CONTROL ITEMS TO BE USED IN CONJUNCTION WITH THE PROPOSED WORK OR A.O.B.E.. THE INSTALLATION METHODS INCLUDING APPLICABLE PLACEMENT INTERVALS ARE SHOWN ON THE RESPECTIVE NYSDOT STANDARD SHEETS AND ALSO IN THE BLUE BOOK.
12. WORK IN ENVIRONMENTALLY SENSITIVE AREAS ARE SUBJECT TO THE ENGINEER'S APPROVAL. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE LOCATION AND THE METHOD OF CONTROL PRIOR TO THE START OF ANY WORK.
13. GEOTEXTILES SHALL SATISFY THE REQUIREMENTS OF SECTION 207-02 OF THE STANDARD SPECIFICATIONS. SILT FENCE, ITEM 209.13 WILL ONLY BE PAID FOR AT LOCATIONS SHOWN IN THE PLANS AND/OR TABLES, AND A.O.B.E.. SILT FENCE MAY BE SUBSTITUTED WITH TRIANGULAR FOAM BARRIERS AS APPROVED IN WRITING BY THE ENGINEER IN CHARGE. IN ACCORDANCE WITH NYSDOT STANDARD SHEET 209-01, SILT FENCE SHOULD BE PLACED A MINIMUM OF 10' FROM THE TOE OF SLOPE (WHERE RIGHT OF WAY ALLOWS) TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OF THE SEDIMENT CONTAINMENT AREA.
14. SOIL EROSION CONTROL DEVICES, SHALL BE INSTALLED PRIOR TO STARTING CLEARING AND GRUBBING OPERATION AND EARTHWORK CONSTRUCTION. ALL APPROPRIATE DEVICES SHALL REMAIN IN PLACE UNTIL NEW SLOPES AND EXPOSED EARTHEN SURFACES ARE STABILIZED, AND/OR A.O.B.E.. TEMPORARY SOIL EROSION DEVICES MAY BE LEFT IN PLACE AT THE COMPLETION OF THIS CONTRACT WITH WRITTEN PERMISSION OF THE ENGINEER IN CHARGE. ALL OTHER DEVICES SHALL BE REMOVED AND THE DISTURBED AREA RESTORED SECTION 107-10 OF THE STANDARDS AND SPECIFICATIONS, UNLESS SHOWN OTHERWISE ON THE PLANS.
15. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES OR WATERCOURSES.
16. IN THE EVENT DEWATERING OPERATIONS BECOME NECESSARY, A SETTling BASIN WILL BE REQUIRED UNLESS THE PUMP DISCHARGE IS AS FREE AND CLEAR OF SEDIMENT AS THE FLOWING STREAM. THE LOCATION AND DESIGN OF THE SETTling BASIN SHALL BE APPROVED BY THE ENGINEER. PUMPING TO A "SUITABLE" UPLAND AREA IS ALSO ACCEPTABLE IN LIEU OF CONSTRUCTING A SETTling BASIN AS APPROVED BY THE ENGINEER. DEWATERING DIRECTLY INTO A WETLAND WILL NOT BE ALLOWED. THE COST FOR DEWATERING OPERATIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION ACTIVITY TAKING PLACE THAT REQUIRES DEWATERING. NO ADDITIONAL PAYMENT WILL BE MADE.
17. IN ADDITION TO THE DETAILS AND SPECIFICATIONS SHOWN IN THESE PLANS FOR TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL DEVICES, THE CONTRACTOR SHALL REFER TO THE BLUE BOOK FOR ADDITIONAL INFORMATION REGARDING THE INTENDED PURPOSE, DESIGN CRITERIA AND MATERIAL SPECIFICATIONS FOR CONTROL DEVICES. THE MORE STRINGENT SPECIFICATIONS SHALL APPLY.
18. THE CONTRACTOR WILL BE REQUIRED TO PERFORM ALL CONSTRUCTION OPERATIONS USING ANY AND ALL METHODS AT HIS DISPOSAL TO ENSURE EROSION AND SEDIMENTATION CONTROL IS PROTECTED ON SITE. THE BEST WAY TO CONTROL SOIL EROSION IS TO LIMIT THE AMOUNT OF UNPROTECTED EARTH AT ANY ONE TIME.
19. IT IS THE CONTRACTORS AND SUB CONTRACTORS RESPONSIBILITY TO UNDERSTAND THE EROSION CONTROL PLAN AND SIGN THE CERTIFICATION STATEMENT REQUIRED BY THE SPDES GENERAL PERMIT.
20. ITEM 209.1105, PREFABRICATED (TEMPORARY) CHECK DAMS ARE PROVIDED IN THE CONTRACT AND SHOWN ON THE EROSION CONTROL PLANS. THE INTENT OF THE CHECK DAMS IS TO PROVIDE TWO (EA) IN THE DITCH LINE ON THE APPROACH TO A CULVERT CROSSING THAT DISCHARGES FROM THE SITE. THE EXACT LOCATION SHALL BE DETERMINED BY THE ENGINEER WITH GUIDANCE FROM THE NYSDOT STANDARD SHEET 209-02.
21. ALL EXISTING GRASSED DITCHES SHALL BE MAINTAINED IN ITS EXISTING STABILIZED CONDITION UNTIL WORK IS SCHEDULED TO BEGIN IN A PARTICULAR SEGMENT.
22. ITEM 209.22, CONSTRUCTION ENTRANCE IS INCLUDED IN THE CONTRACT. THE ITEM IS NOT CALLED OUT ON THE PLANS AND SHOULD BE USED A.O.B.E..

TEMPORARY STABILIZATION MEASURES

1. WHEN LAND DISTURBANCES IN A PARTICULAR AREA ARE NECESSARY AND WORK WILL BE ONGOING, TEMPORARY MULCHING AND SEEDING MUST BE PERFORMED ON AREAS WHICH WILL BE EXPOSED FOR MORE THAN 14 DAYS. TEMPORARY MULCH MUST BE PERFORMED ON AREAS WHICH WILL BE EXPOSED FOR MORE THAN 7 DAYS AND LESS THAN 14 DAYS. SEE EXPOSED SOIL CRITERIA TABLE THIS SHEET. TEMPORARY MULCHING WILL BE PAID UNDER ITEM 209.100101. TEMPORARY SEED AND MULCH WILL BE PAID UNDER ITEM 209.1003.
2. TEMPORARY SEEDINGS MAY BE NECESSARY ON DISTURBED AREAS WHERE FINAL GRADING IS COMPLETE, WHEN PREPARING FOR A TEMPORARY SHUTDOWN, OR TO PROVIDE COVER WHEN PERMANENT SEEDING ARE LIKELY TO FAIL DUE TO MID-SUMMER HEAT AND DROUGHT. THE INTENT IS TO PROVIDE TEMPORARY PROTECTIVE COVER DURING TEMPORARY SHUTDOWN OF CONSTRUCTION AND/OR WHILE WAITING FOR OPTIMAL PLANTING TIME.
3. THE CONTRACTOR SHOULD BE MINDFUL OF ANTICIPATED STORM EVENTS. DISTURBED AREAS THAT WILL BE EXPOSED LESS THAN 14 DAYS SHOULD RECEIVE TEMPORARY MULCHING TO DISTURBED AREAS SUSCEPTIBLE TO EROSION AND MOVEMENT OF SEDIMENT FROM THE SITE PRIOR TO RAIN EVENT.
4. TEMPORARY STOCKPILE AREAS SHALL BE RINGED WITH SILT FENCE. STOCKPILES SHOULD BE SEEDED AND MULCHED IN ACCORDANCE WITH NOTE 1 ABOVE.
5. ALL TEMPORARY STABILIZATION TIMEFRAMES SHALL BE IN ACCORDANCE WITH THE SPDES GENERAL PERMIT AND AS SPECIFIED IN THE NYSDEC NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
6. TEMPORARY STRAW MULCH WILL BE APPLIED AT 2 TONS/ACRE (2-3 BALES PER 1000 SQFT) APPLICATION RATE.

PERMANENT STABILIZATION MEASURES

1. PERMANENT STABILIZATION MEASURES SHOULD BE PERFORMED AS SOON AS POSSIBLE AFTER COMPLETION OF GRADING. WAITING UNTIL ALL DISTURBED AREAS ARE READY FOR PERMANENT STABILIZATION IS UNACCEPTABLE.
2. EXPOSED DISTURBED AREAS ADJACENT TO A CONVEYANCE THAT PROVIDE RAPID DISCHARGE FROM SITE SHALL BE COVERED WITH PLASTIC OR GEOTEXTILE TO PREVENT SOIL LOSS UNTIL IT CAN BE STABILIZED (THIS WORK TO BE INCLUDED IN THE BID PRICE FOR VARIOUS 209 ITEMS. NO ADDITIONAL PAYMENT WILL BE MADE TO PROTECT UNSTABILIZED SURFACES FROM EROSION SUSCEPTIBLE TO RAPID DISCHARGE FROM SITE.)
3. PERMANENT SEEDING SHOULD OPTIMALLY BE UNDERTAKEN IN THE SPRING FROM MARCH THROUGH MAY, AND IN LATE SUMMER AND EARLY FALL FROM SEPTEMBER TO OCTOBER 15, WHEN SEEDING IS IMPRACTICABLE, AN APPROPRIATE TEMPORARY MULCH SHALL BE APPLIED. PERMANENT SEEDING MAY BE UNDERTAKEN DURING THE SUMMER IF ADEQUATE WATERING WILL BE PROVIDED. PAYMENT FOR WATERING WILL BE MADE UNDER TURF ESTABLISHMENT ITEM.
4. ALL SLOPES STEEPER THAN A 1 ON 3 AND REGRADED DITCHES WILL REQUIRE ROLLED EROSION CONTROL PRODUCTS (RECP) UNLESS OTHERWISE NOTED ON DETAILS AND IN PLANS. INSTALLATION OF RECP WILL IMMEDIATELY FOLLOW FININSED GRADING.
5. SEEDBED MUST BE SEEDED WITHIN 24 HOURS OF DISTURBANCE OR SCARIFICATION WILL BE NECESSARY PRIOR TO SEEDING.
6. ANY SEEDING METHOD MAY BE USED THAT WILL PROVIDE UNIFORM APPLICATION OF SEED TO THE AREA AND RESULT IN A RELATIVELY GOOD SEED TO SOIL CONTACT. SEE SECTION 610-2.03 AND 610-3.03 FOR SEEDING APPLICATION RATES/TYPE.

EXPOSED SOIL CRITERIA (FOR TEMPORARILY EXPOSED SOIL AREAS)

CRITERIA	REQUIRED ACTION
PRIOR TO ANY ANTICIPATED PRECIPITATION OR AOB E	TEMPORARY MULCH (ITEM 209.100101)
NO WORK ON EXPOSED SOIL AREA(S) FOR 7 OR MORE CONSECUTIVE DAYS	TEMPORARY MULCH (ITEM 209.100101)
NO WORK ON EXPOSED SOIL AREA(S) FOR 14 OR MORE CONSECUTIVE DAYS	TEMPORARY SEED AND MULCH (ITEM 209.1003), OR PLACEMENT OF TOPSOIL (ITEM 610.1402) AS SPECIFIED, AND TURF ESTABLISHMENT (ITEM 610.1601) AND 209 ITEMS AS SHOWN ON THE TYPICAL SECTIONS

NOTES

1. ALL AREAS SHALL BE BROUGHT TO FINAL GRADE AND TRIMMED AS SOON AS POSSIBLE.
2. MAINTENANCE OF MULCHED AREAS SHALL INCLUDE RE-MULCHING OF AREAS IN WHICH SOIL BECOMES EXPOSED TO VIEW. ANY AREAS THAT BECOME SETTLED OR GULLIED DURING MULCHING OPERATIONS SHALL BE RE-GRADED.
3. MAINTENANCE OF TEMPORARY SEEDED AREAS SHALL INCLUDE RE-SEEDING AS NEEDED TO ESTABLISH A SATISFACTORY STAND OF GRASS. THERE SHALL BE NO ADDITIONAL PAYMENT FOR RESEEDING.
4. THE USE OF TEMPORARY SEED AND MULCH (ITEM 209.1003), AS AN EFFECTIVE EROSION CONTROL METHOD MUST BE APPLIED PRIOR TO OCTOBER 15 AND AFTER MARCH 31.
5. DEPENDING ON WEATHER CONDITIONS, WATERING MAY BE NEEDED TO ESTABLISH TEMPORARY SEED. THE UNIT PRICE BID FOR THIS ITEM SHALL INCLUDE WATER IN ACCORDANCE WITH SUB-SECTION 209-5.03 OF THE NYSDOT STANDARD SPECIFICATIONS. WATERING IS TO BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 610.1601, TURF ESTABLISHMENT. WATERING SHALL BE APPLIED IN ACCORDANCE WITH SECTIONS 610-3.03 OF THE NYSDOT STANDARD SPECIFICATIONS (SEE SECTION 610-3.10A FOR RATE OF APPLICATION).
6. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE CONTRACT. THERE SHALL BE NO ADDITIONAL PAYMENT FOR MAINTENANCE OF EROSION CONTROL MEASURES.

REPORTING OF SPILLS, DISCHARGES AND/OR CONTAMINATED SOILS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ANY FINDINGS OF SPILLS, LEAKS OR PETROLEUM PRODUCTS, CONTAMINATED SOILS, BUIED DRUMS OF UNKNOWN SUBSTANCES, OR ANY POTENTIALLY HAZARDOUS MATERIALS TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC). WITHIN TWO (2) HOURS OF THE DISCOVERY. NOTIFICATION MUST BE MADE BY CALLING THE NYSDEC SPILLS HOTLINE -(800) 457-7362.




WETLAND PROTECTION NOTES

1. THE WORK WITHIN AND THE ASSOCIATED ADJACENT AREA TO NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) FRESHWATER WETLANDS SHOWN ON THESE PLANS IS AUTHORIZED BY A NYSDEC ARTICLE 24 PERMIT. NO CONSTRUCTION, GRADING, FILLING, EXCAVATING, CLEARING, STOCKPILING, STORING, STAGING OR OTHER RELATED ACTIVITIES SHALL BE PERMITTED WITHIN THE WETLAND OR 100 FOOT ADJACENT AREA EXCEPT AS DESCRIBED IN THESE PLANS AND AS DESCRIBED IN THE PERMIT DOCUMENT.
2. THE WORK WITHIN FEDERAL JURISDICTIONAL WATERBODIES/WATERS OF THE U.S. SHOWN ON THESE PLANS IS AUTHORIZED BY A UNITED STATES ARMY CORPS OF ENGINEERS SECTION 404 / 10 PERMIT. NO CONSTRUCTION, GRADING, FILLING, EXCAVATING, CLEARING, STOCKPILING, STORING, STAGING OR OTHER RELATED ACTIVITIES SHALL BE PERMITTED WITHIN THE BOUNDARIES EXCEPT AS DESCRIBED IN THESE PLANS AND AS DESCRIBED IN THE PERMIT DOCUMENT.
3. ANY WORK IN THE WATERBODY OR WETLAND NOT SHOWN ON THE PLANS AND NOT AUTHORIZED IN THE PERMIT DOCUMENT MAY REQUIRE ADDITIONAL PERMITS OR PERMIT MODIFICATIONS AND SHALL NOT BE DONE WITHOUT FIRST CONTRACTING THE EIC.

WINTER STABILIZATION

1. AN ENHANCED EROSION AND SEDIMENT CONTROL PLAN TO MANAGE RUNOFF AND SEDIMENT DURING CONSTRUCTION ACTIVITIES HAS BEEN CONSIDERED AND INCORPORATED INTO THE SWPPP TO THE EXTENT PRACTICAL AND NECESSARY. IF DURING THE COURSE OF CONSTRUCTION, IT BECOMES APPARENT THAT A WINTER SHUTDOWN WILL BE NECESSARY AND COMPLETION OF WORK LEFT UNDONE WILL BE COMPLETED IN THE NEXT CONSTRUCTION SEASON, TEMPORARY STABILIZATION WITH TEMPORARY SEEDING AND MULCHING MUST BE PERFORMED TO ALLOW FOR ESTABLISHMENT OF VEGETATIVE COVER. UNDER NO CIRCUMSTANCES SHALL ROADSIDE OPEN DITCHES BE LEFT UNDISTURBED OVER THE SHUTDOWN WITHOUT A SUBSTANTIAL VEGETATIVE COVER. IN ACCORDANCE WITH SECTION 108-01, THE EIC SHOULD NOT APPROVE ANY SCHEDULE THAT DOES NOT PROVIDE ADEQUATE TIME TO ALLOW FOR ESTABLISHMENT OF VEGETATION IN DISTURBED AREAS (INCLUDING ROADSIDE DITCHES) PRIOR TO WINTER MONTHS.

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft+ UNLESS OTHERWISE NOTED	CONTRACT NUMBER
					EROSION CONTROL NOTES	DRAWING NO. ECN-1
						SHEET NO. 28
COUNTY: ULSTER		REGION: 8				
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						
					BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com	
						

SUGGESTED SEQUENCE OF CONSTRUCTION ACTIVITIES

IN ACCORDANCE WITH SECTION 107-12 OF THE NYSDOT STANDARD SPECIFICATIONS, PRIOR TO THE START OF RELATED CONSTRUCTION, THE CONTRACTOR SHALL REVIEW THE EROSION AND SEDIMENT CONTROL PLAN INCLUDED IN THE CONTRACT DOCUMENTS. IF NECESSITATED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL MODIFY THE PLAN FOR COMPATIBILITY WITH THEIR INTENDED SEQUENCE OF CONSTRUCTION OPERATIONS, TO INCLUDE, BUT NOT LIMITED TO: CONSTRUCTION PHASES; CONTRACT MILESTONES, INSTALLATION OF CONTROL MEASURES, CLEARING AND GRUBBING OPERATIONS, EARTHWORK, ETC. THE CONTRACTOR'S MODIFIED EROSION AND SEDIMENT CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, ALONG WITH A PROGRESS SCHEDULE FOR ACCOMPLISHMENT OF TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL WORK IN ACCORDANCE WITH SECTION 108-01 PROGRESS SCHEDULE.

DUE TO THE NARROW RIGHT OF WAY OF THE PROJECT CORRIDOR, LIMITED AREAS FOR EQUIPMENT STAGING, STORAGE AND STOCKPILE AREAS EXIST WITHIN THE CONTRACT LIMITS. IF THE CONTRACTOR SECURES LOCATIONS ABUTTING THE RIGHT OF WAY WITHIN THE CONTRACT LIMITS, OR THAT HAVE SIGNIFICANT IMPACTS, THE CONTRACTOR MUST ARRANGE FOR PERMIT COVERAGE FOR THESE AREAS THROUGH THE LANDOWNER (THE LANDOWNER MUST SIGN THE NOI, SECTION 107-08 PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE). IF THE IMPACTS TO THE SITE ARE CONSIDERED TEMPORARY, THE REQUIRED SWPPP WILL LIKELY ONLY INCLUDE THE EROSION AND SEDIMENT CONTROL PLAN FOR THE SITE. THE CONTRACTOR SHOULD PROVIDE A COPY OF THE NOI SUBMITTED BY THE CONTRACTOR TO THE NYSDEC AND ANY OTHER PERMITS REQUIRED. THE ENGINEER SHOULD RECEIVE A GRADING PLAN AND ENSURE THAT AREAS HAVE BEEN STABILIZED UPON CONTRACT COMPLETION.

A GENERAL SEQUENCE OF CONSTRUCTION OPERATIONS IS LISTED BELOW. THE SEQUENCE PROVIDED LIMITS THE TOTAL DISTURBANCE AREA TO LESS THAN 5 ACRES AT ANY GIVEN TIME. THE CONTRACTOR'S MODIFIED EROSION AND SEDIMENT CONTROL PLAN TO MATCH THEIR INTENDED SEQUENCE SHALL NOT BE APPROVED UNLESS IT ALSO LIMITS THE TOTAL DISTURBANCE AREA TO 5 ACRES AT ANY GIVEN TIME.

1. A PRE-CONSTRUCTION MEETING WILL BE HELD WITH THE SITE ENGINEER, ULSTER COUNTY ENGINEER, CONTRACTOR, SUBCONTRACTOR PERFORMING EARTH DISTURBING ACTIVITIES, INSTALLING THE TEMPORARY EROSION CONTROL MEASURES, STABILIZATION AND SPDES GENERAL PERMIT COMPLIANCE INSPECTOR TO DISCUSS SPDES PERMIT REQUIREMENTS.
2. INSTALL PERIMETER SEDIMENT CONTROL MEASURES PRIOR AT LOCATIONS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER PRIOR TO ANY EARTH DISTURBING ACTIVITIES. BEFORE CONSTRUCTION BEGINS, THE CONTRACTOR SHALL ENSURE THAT THESE MEASURES HAVE BEEN INSTALLED AND ARE FUNCTIONING PROPERLY. THE CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROL COMPONENTS DURING ALL PHASES OF CONSTRUCTION UNTIL FINAL STABILIZATION.
3. BEGIN TRAIL WORK FROM SOUTH RD PROCEEDING EAST. PRIOR TO EXCAVATING AND AFTER INSTALLING TEMPORARY SEDIMENT CONTROLS, TOPSOIL SHOULD BE STRIPED AND STOCKPILED TO BE USED AS NEEDED.
4. CONSTRUCT SUBGRADE OF TRAIL ALONG WITH REQUIRED DRAINAGE IMPROVEMENTS. INSTALL SUBBASE MATERIAL. MAINTAIN ACCESS TO PRIVATE PROPERTIES AT ALL TIMES.
5. PAVE TRAIL.
6. UPON INITIAL DISTURBANCE AT ANY LOCATION, AREAS SHOULD BE WORKED TO COMPLETED CONDITION/PERMANENT STABILIZATION AS SOON AS POSSIBLE.
7. ESTABLISH FINAL DRIVEWAY TIE-INS.
8. PERFORM SIGNAL AND SIGNING WORK.
9. PERFORM STRIPING WORK.
10. UPON FINAL STABILIZATION OF SITE AS DEFINED BY THE SPDES GENERAL PERMIT, REMOVE BY HAND ALL TEMPORARY EROSION CONTROL MEASURES. SEED AND MULCH DISTURBED AREAS AS A RESULT OF REMOVAL OF TEMPORARY PRACTICES.

POLLUTION PREVENTION MEASURES


PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A PROJECT SPECIFIC SAFETY AND HEALTH PLAN IN ACCORDANCE WITH SECTION 107-05, SAFETY AND HEALTH REQUIREMENTS. THE SAFETY AND HEALTH PLAN SHALL SPECIFICALLY ADDRESS SPILL PREVENTION AND A RESPONSE PLAN. THE PLAN SHALL DETAIL THE STEPS NEEDED TO BE FOLLOWED IN THE EVENT OF AN ACCIDENTAL SPILL AND SHALL IDENTIFY CONTACT NAMES AND PHONE NUMBERS OF PEOPLE AND AGENCIES THAT MUST BE NOTIFIED.

THE PLAN SHALL INCLUDE SAFETY DATA SHEETS (MSDS) FOR MATERIAL TO BE STORED ON SITE. ALL WORKERS ON-SITE WILL BE REQUIRED TO BE TRAINED ON SAFE HANDLING AND SPILL PREVENTION PROCEDURES FOR ALL MATERIALS USED DURING CONSTRUCTION. REGULAR TAILGATE SAFETY MEETINGS SHALL BE HELD AND ALL WORKERS THAT ARE EXPECTED ON THE SITE DURING THE WEEK SHALL BE REQUIRED TO ATTEND. AGENDA, TOPICS AND SIGN-IN SHEETS SHALL BE PROVIDED TO THE E.I.C..

ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON-SITE SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT CONFORMS TO ALL APPLICABLE FEDERAL AND STATE REGULATIONS THAT DOES NOT CAUSE A CONTAMINATION OF STORMWATER. GOOD HOUSEKEEPING AND PREVENTATIVE MEASURES WILL BE TAKEN TO ENSURE THAT THE SITE WILL BE DEPT CLEAN, WELL ORGANIZED, AND FREE OF DEBRIS.

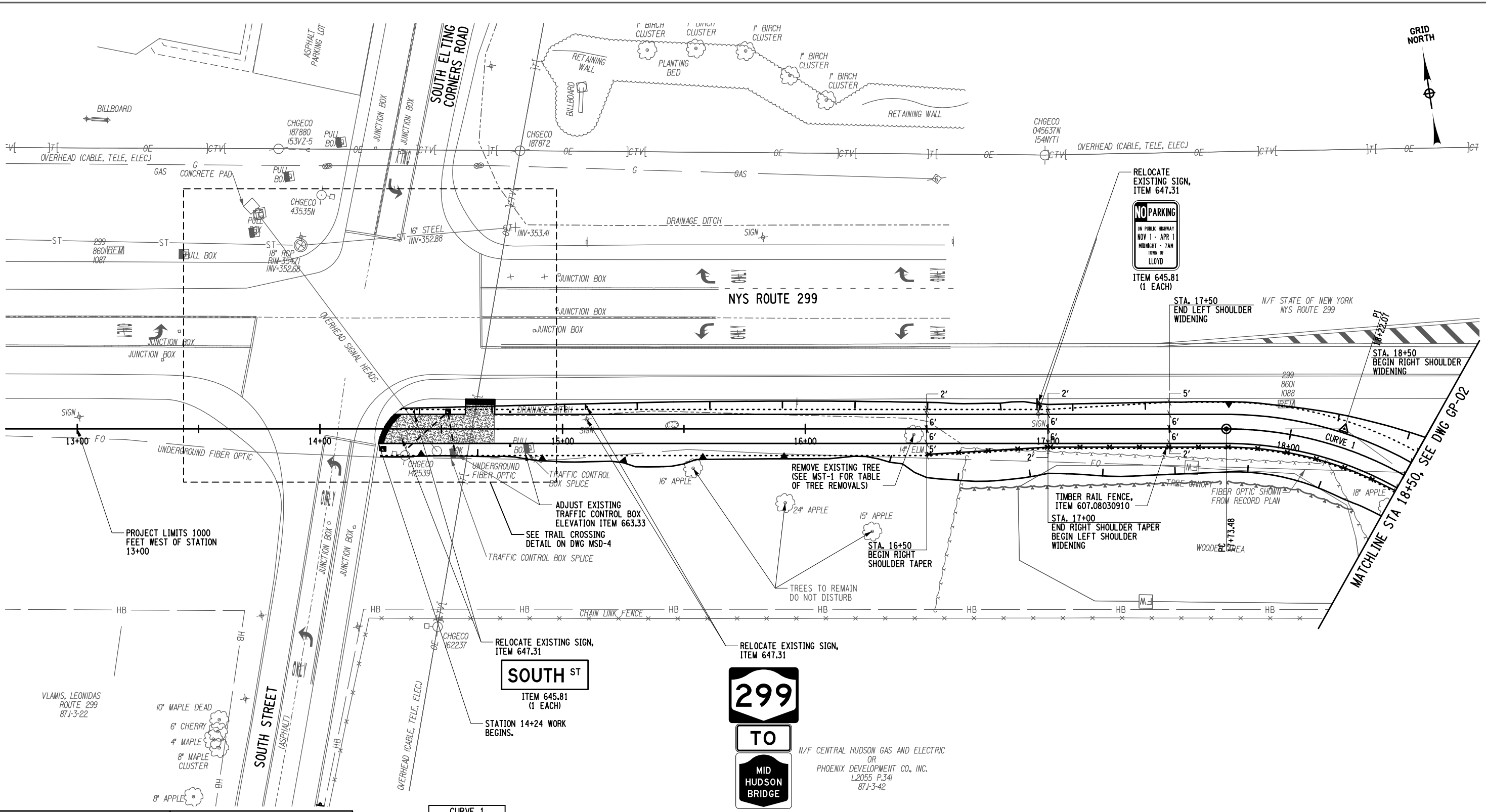
1. ALL VEHICLES, EQUIPMENT, AND PETROLEUM PRODUCT STORAGE/DISPENSING AREA WILL BE OBSERVED REGULARLY DURING SITE INSPECTIONS TO DETECT ANY LEAKS OR SPILLS, AND TO IDENTIFY MAINTENANCE NEEDDS TO PREVENT LEAKS AND SPILLS. ON-SITE FUELING TANKS AND PETROLEUM PRODUCT STORAGE CONTAINERS SHALL CONTAIN SECONDARY CONTAINMENT. SPILL PREVENTION MEASURES, SUCH AS DRIP PANS, WILL BE USED WHEN CONDUCTING MAINTENANCE AND REPAIR OF VEHICLES AND EQUIPMENT. IN ORDER TO PERFORM EMERGENCY REPAIRS ON SITE, TEMPORARY PLASTIC WILL BE PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE. CONTAINMENT SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING AN DISCHARGES OR SPILL INCIDENT. CONTAMINATED SOIL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL CURRENT FEDERAL AND STATE REGULATIONS. THE COUNTY WILL BE NOTIFIED IF ANY SPILLS OVER THE REPORTABLE LIMIT OCCUR. THE TOWN OF NEW PALTZ/ULSTER COUNTY/NYSDOT WILL ALSO BE NOTIFIED IF ANY SPILLS OCCUR WHICH MAY ENTER THE MS4'S DRAINAGE FACILITIES. THE NYSDEC GUIDANCE ON SPILL REQUIREMENTS ARE CONTAINED IN THE TECHNICAL FIELD GUIDANCE, SPILL REPORTING AND INITIAL NOTIFICATION REQUIREMENTS (ALSO CONTAINED IN THE PROJECT SPECIFIC SWPPP).
2. ANY CHEMICALS STORED IN THE CONSTRUCTION AREAS WILL CONFORM TO THE APPROPRIATE MANUFACTURERS RECOMMENDATIONS AND OR THE APPROPRIATE FEDERAL/STATE REGULATIONS. ALL CHEMICALS SHALL HAVE COVER, CONTAINMENT, AND PROTECTION PROVIDED ON-SITE, PER ALL FEDERAL AND NEW YORK STATE DEC REGULATIONS. APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, SHALL BE CONDUCTED IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICAL TO STORMWATER RUNOFF. MANUFACTURERER'S RECOMMENDATION FOR APPLICATION RATES AND PROCEDURES SHALL BE FOLLOWED.
3. ALL DEWATERING FROM OPEN CUT EXCAVATIONS SHALL BE DISCHARGED INTO A CONTROLLED CONVEYANCE SYSTEM. CHANNELS AND DISCHARGE POINTS SHALL BE STABILIZED PRIOR TO USE FOR DISCHARGE.
4. DUST RELEASED FROM ON-SITE GRADING OPERATIONS WILL BE CONTROLLED USING STANDARDS AND SPECIFICATIONS FOR DUST CONTROL FROM THE BLUE BOOK (ALSO CONTAINED IN THE PROJECT SPECIFIC SWPPP).
5. PROCESS WATER AND SLURRY RESULTING FROM CONCRETE WORK WILL BE PREVENTED FROM ENTERING SURFACE WATERS, JURISDICTIONAL WETLANDS, AND ANY CLOSED DRAINAGE FACILITY.
6. PORATBLE SANITARY FACILITIES WILL BE FIRMLY SECURED, REGULARLY MAINTAINED, AND EMPTIED WHEN NECESSARY.
7. LITTER AND TRASH SHALL BE CLEANED AND DISPOSED OF IN SECURE CLEARLY MARKED DUMPSTERS OR TRASH RECEPTACLES. SITE IS TO BE CLEANED DAILY OF DEBRIS AND DISPOSED OF ON A DAILY BASIS.

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
					EROSION CONTROL NOTES	DRAWING NO. ECN-2
						SHEET NO. 29
	COUNTY: ULSTER REGION: 8					
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					<div><div><div>HVEA</div><div>ENGINEERS</div></div><div>BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com</div></div> <div><div>Ulster County</div><div>ulstercountyny.gov</div></div> <div></div>	

FILE NAME = 876121.oph_gnp_01.dgn
DATE/TIME = 20-DEC-2017 09:58
USER = Catherine

PROJECT MANAGER J. GORTON
CHECK L. BACH
DRAFTING K. FISCHER
CHECK J. GORTON
DESIGN L. BACH
JOB MANAGER J. GORTON
DESIGN SUPERVISOR B. FITZGERALD



CURVE 1
P.C. = 17+73.48
P.R.C. = 18+67.47
R = 150.00'
L = 93.99'
Δ = 35°54'15" RT



ITEM 645.81
(2 EACH)

N/F CENTRAL HUDSON GAS AND ELECTRIC
OR
PHOENIX DEVELOPMENT CO., INC.
L2055 P.341
87J-3-42

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21
COUNTY: ULSTER	REGION: 8

BRIDGES
CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

GENERAL PLAN

DRAWING NO. GP-01
SHEET NO. 30

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



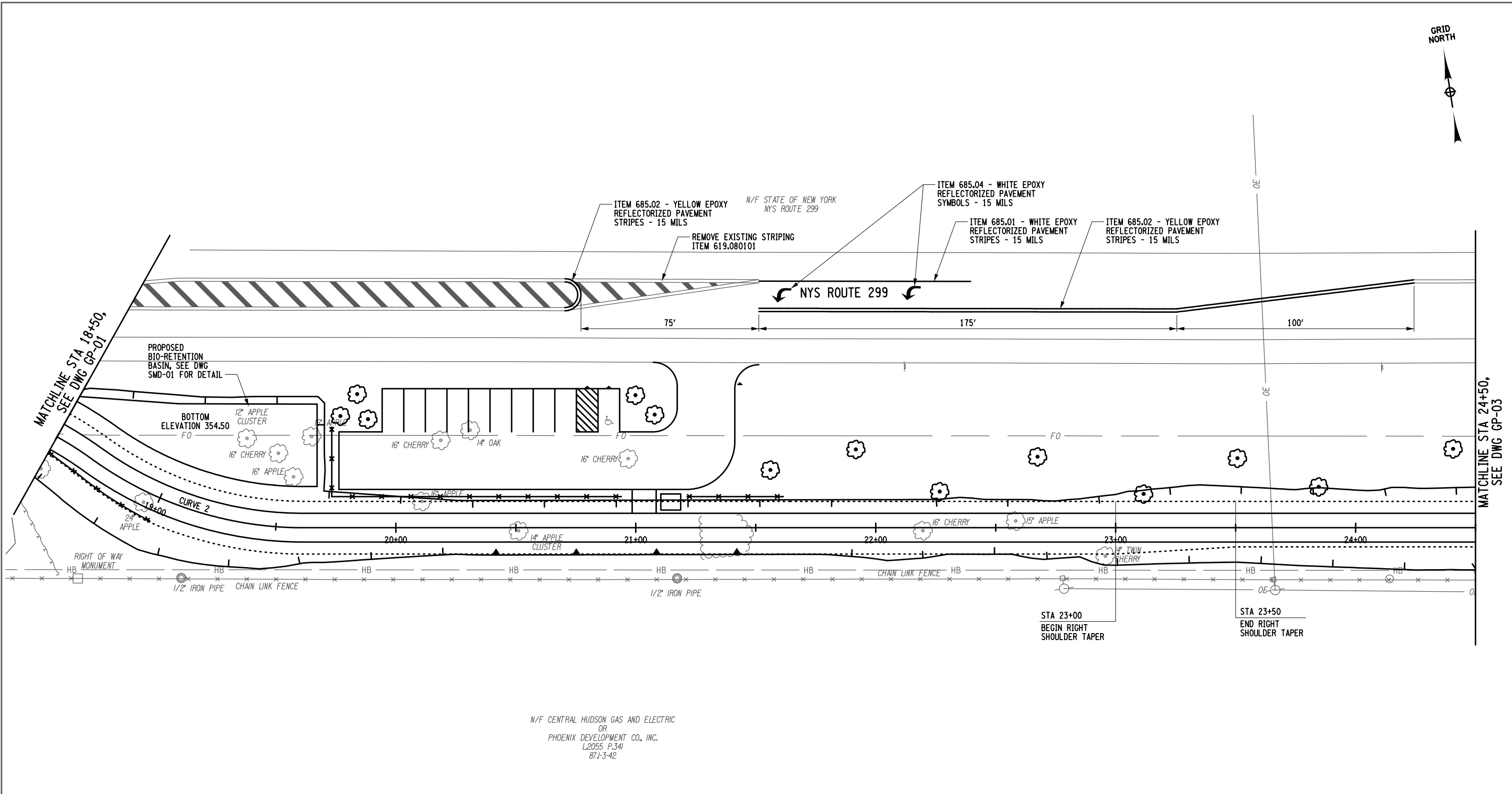
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Ulster County
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FILE NAME = 876121_oph_gnp_02.dgn
DATE/TIME = 20-DEC-2017 14:08
USER = HVEA 106

DESIGN SUPERVISOR B. FITZGERALD
JOB MANAGER J. GORTON
DESIGN L. BACH
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON



AFFIX SEAL: ON:	ALTERED BY: ON:

CURVE 1
P.C. = 17+73.48
P.R.C. = 18+67.47
R = 150.00'
L = 93.99'
Δ = 35°54'15" RT

CURVE 2
P.R.C. = 18+67.47
P.T. = 19+61.47
R = 150.00'
L = 94.00'
Δ = 35°54'15" LT

ITEM NO.	SYMBOL	QUANTITY	GENUS AND SPECIES / COMMON NAME	SIZE	REMARKS
611.0191	PY	3	PRUNUS X YEDOENSIS/JAPANESE FLOWERING CHERRY	4" CAL	12' O.C. SPACING
611.0191	CF	2	CORNUS FLORIDA VAR. RUBRA/PINK DOGWOOD	4" CAL	12' O.C. SPACING
611.0191	QR	4	QUERCUS RUBRA/NORTHERN RED OAK	4" CAL	30' O.C. SPACING
611.0191	AR	4	ACER RUBRUM/RED MAPLE	4" CAL	30' O.C. SPACING

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4

PIN 8761.21

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

GENERAL PLAN

DRAWING NO. GP-02

SHEET NO. 31

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



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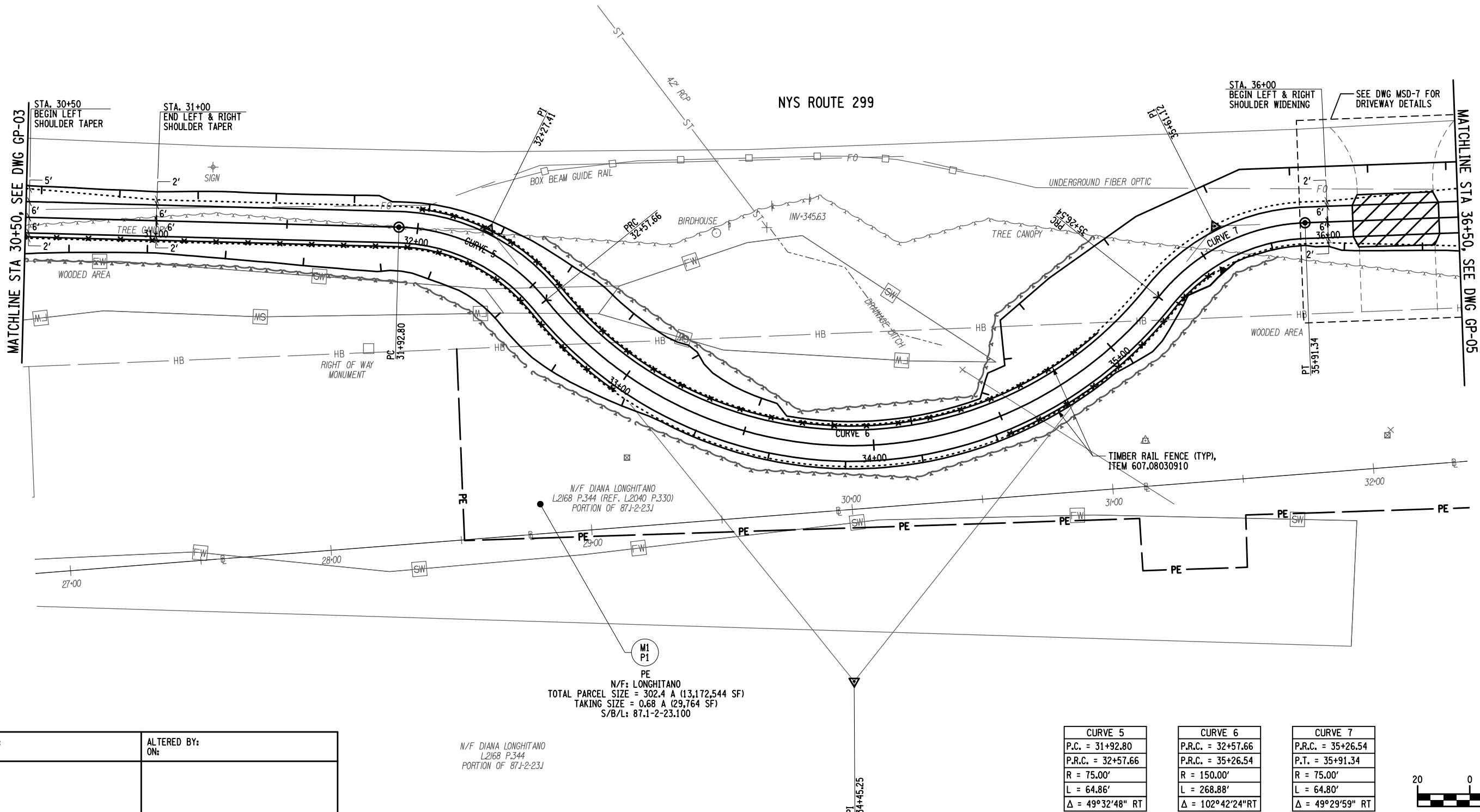
CURVE 3	CURVE 4
P.C. = 27+06.06	P.R.C. = 28+20.35
P.R.C. = 28+20.35	P.T. = 29+03.13
R = 250.00'	R = 250.00'
L = 114.29'	L = 82.78'
$\Delta = 26^{\circ}11'29''$ LT	$\Delta = 18^{\circ}58'19''$ RT

ITEM NO.	SYMBOL	QUANTITY	GENUS AND SPECIES / COMMON NAME	SIZE	REMARKS
611.0191	QR	2	QUERCUS RUBRA/NORTHERN RED OAK	4" CAL	30' O.C. SPACING
611.0191	AR	2	ACER RUBRUM/RED MAPLE	4" CAL	30' O.C. SPACING




AS-BUILT REVISIONS: DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
					GENERAL PLAN	DRAWING NO.	GP-03
						SHEET NO.	32
	COUNTY: ULSTER					REGION: 8	
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					<div><div><div><div><div></div><div>HVEA</div><div>ENGINEERS</div></div><div>BEACON, NEW YORK 12508 (845) 838-3500 www.hveapc.com</div></div></div><div><div>Ulster County</div><div>ulstercountyny.gov</div></div><div></div></div>		

FILE NAME = 876121.oph_gmp_04.dgn
DATE/TIME = 20-DEC-2017 09:58
USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH CHECK J. GORTON DRAFTING K. FISCHER CHECK L. BACH PROJECT MANAGER J. GORTON



AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED		CONTRACT NUMBER	
					GENERAL PLAN		DRAWING NO.	GP-04
	COUNTY: ULSTER	REGION: 8					SHEET NO.	33
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					 <div>BEACON, NEW YORK 12508 (845) 638-3000 www.hveapc.com</div>		 <div>Ulster County ulstercountyny.gov</div> 	

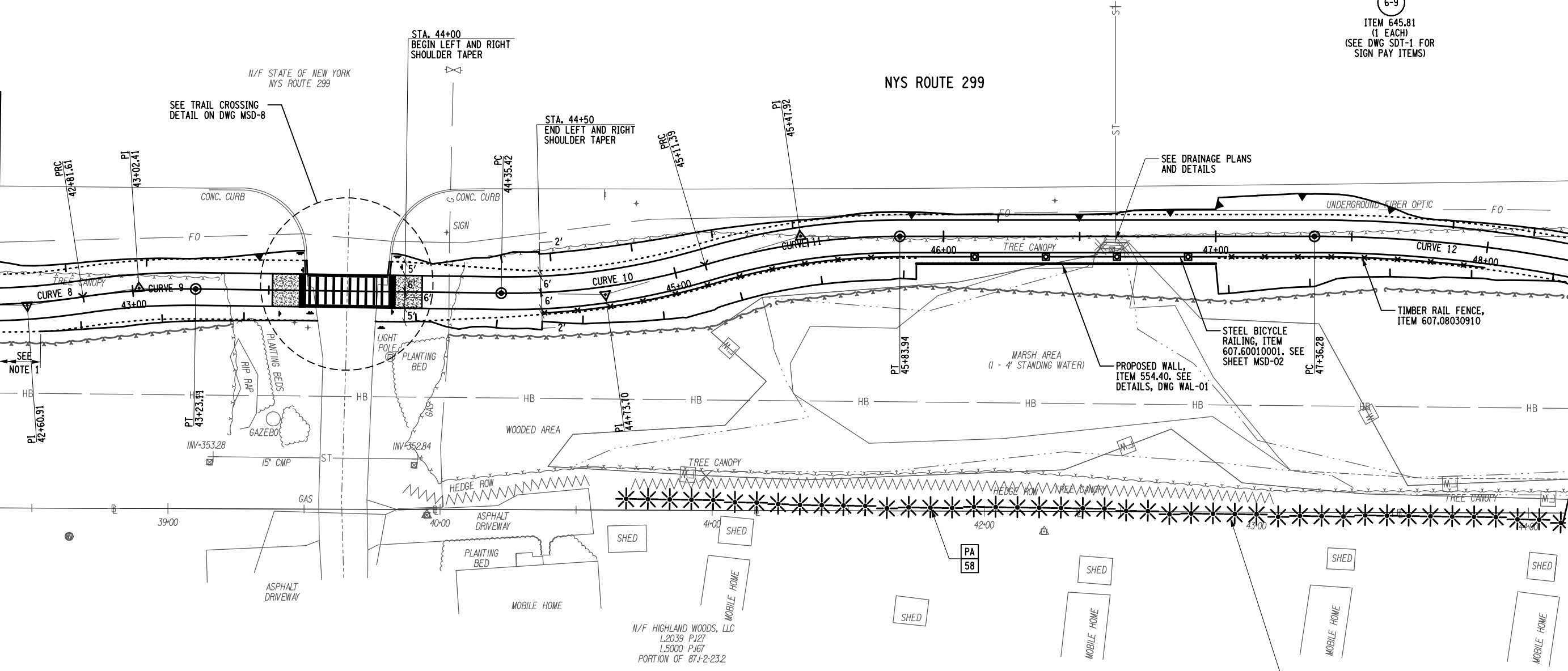


FILE NAME = 876121.oph_gnp_06.dgn
DATE/TIME = 20-DEC-2017 09:58
USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD
JOB MANAGER J. GORTON
DESIGN L. BACH
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON

MATCHLINE STA 42+50, SEE DWG GP-05

MATCHLINE STA 48+50, SEE DWG GP-07



NOTE:
1. RIGHT SHOULDER OF TRAIL TO BE GRADED OUT TO FURTHEST EXTENT POSSIBLE TO THE TOE OF EXISTING GRASS BERM.

ITEM NO.	SYMBOL	QUANTITY	GENUS AND SPECIES / COMMON NAME	SIZE
611.0372	PA	58	PICEA ABIES/NORWAY SPRUCE	7' HGT

CURVE 8
P.C. = 42+81.61
P.R.C. = 42+81.61
R = 250.00'
L = 41.49'
Δ = 09°30'38" LT

CURVE 9
P.C. = 42+81.61
P.T. = 43+23.11
R = 250.00'
L = 41.50'
Δ = 09°30'38" RT

CURVE 10
P.C. = 44+35.42
P.R.C. = 45+11.39
R = 250.00'
L = 75.97'
Δ = 17°24'37" LT

CURVE 11
P.C. = 45+11.39
P.T. = 45+83.94
R = 250.00'
L = 72.55'
Δ = 16°37'36" RT

CURVE 12
P.C. = 47+36.28
P.R.C. = 49+95.24
R = 500.00'
L = 258.96'
Δ = 29°40'27" RT

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4

PIN 8761.21

BRIDGES

CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

CONTRACT NUMBER

GENERAL PLAN

DRAWING NO. GP-06

SHEET NO. 35

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

HVEA
ENGINEERS

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DATE/TIME = 20-DEC-2017 09:58
USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD
JOB MANAGER J. GORTON
DESIGN L. BACH
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON

AFFIX SEAL: ON:	ALTERED BY: ON:

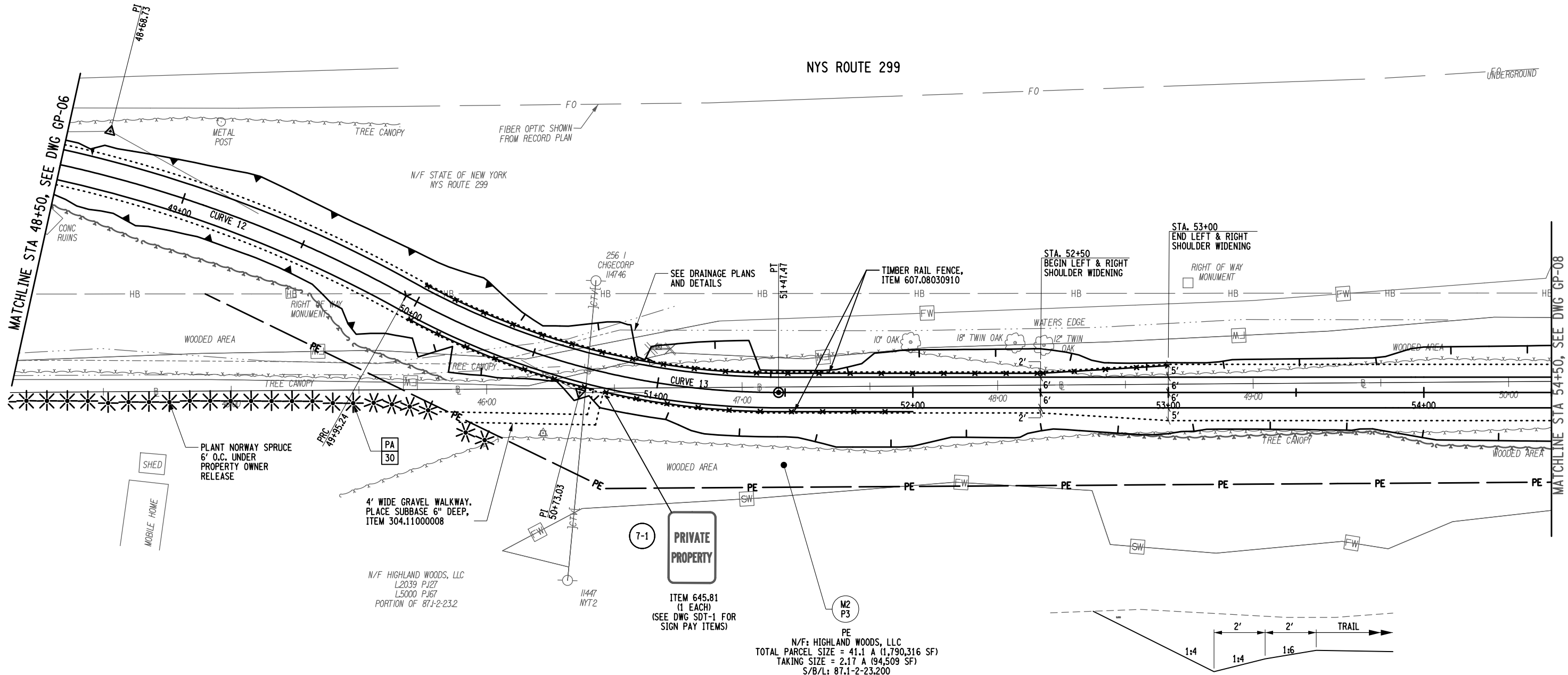
CURVE 12	CURVE 13
P.C. = 47+36.28	P.R.C. = 49+95.24
P.R.C. = 49+95.24	P.T. = 51+47.47
R = 500.00'	R = 300.00'
L = 258.96'	L = 152.23'
Δ = 29°40'27" RT	Δ = 29°04'30" LT

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

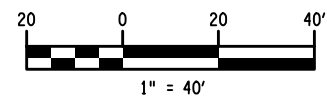
ITEM NO.	SYMBOL	QUANTITY	GENUS AND SPECIES / COMMON NAME	SIZE
611.0372	PA	30	PICEA ABIES/NORWAY SPRUCE	7' HGT

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS
COUNTY: ULSTER	REGION: 8		

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



DITCH INSTALLATION DETAIL
N.T.S.
STA. 48+50± TO STA. 50+50±



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ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED		CONTRACT NUMBER
GENERAL PLAN		DRAWING NO. GP-07
		SHEET NO. 36

FILE NAME = 876121_oph_gnp_08.dgn
DATE/TIME = 20-DEC-2017 09:58
USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH CHECK J. GORTON DRAFTING K. FISCHER CHECK L. BACH PROJECT MANAGER J. GORTON

AFFIX SEAL: ON:	ALTERED BY: ON:

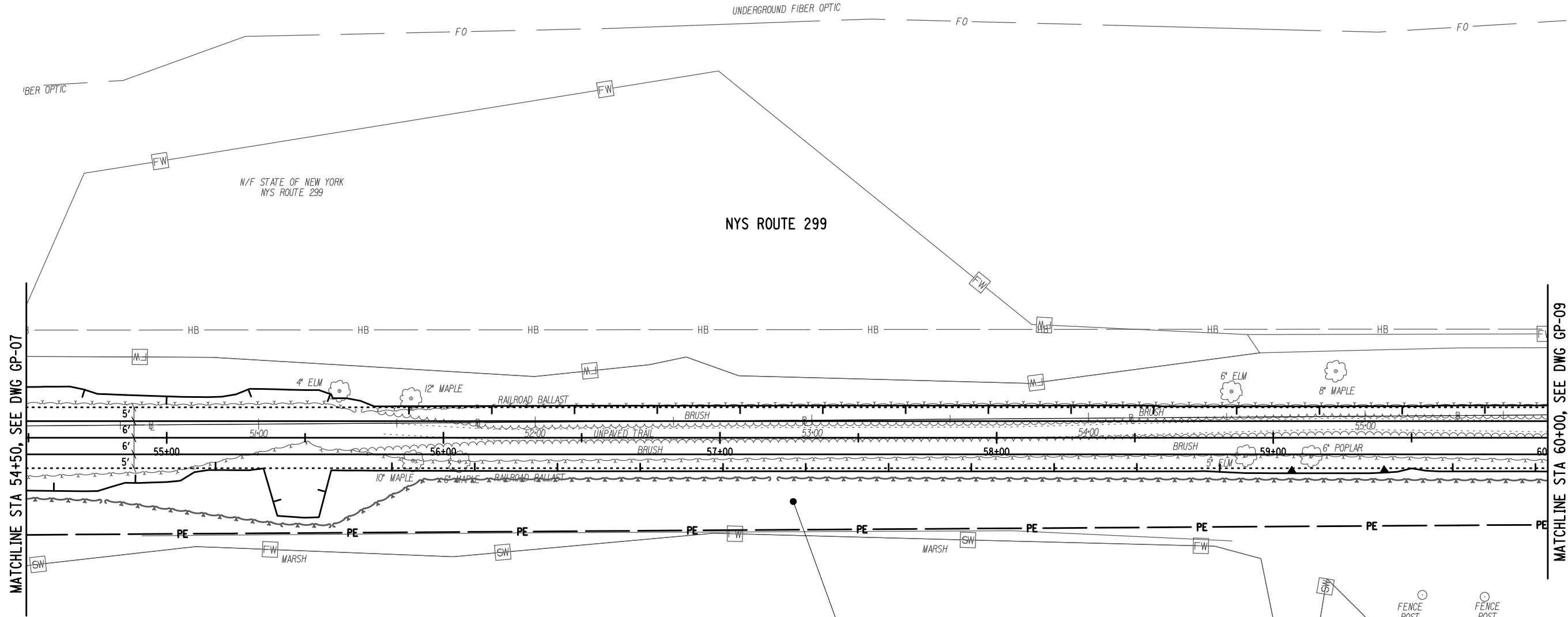
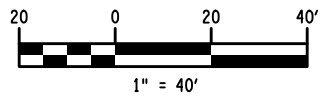
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	COUNTY: ULSTER REGION: 8					DRAWING NO. GP-08 SHEET NO. 37

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



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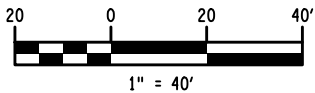
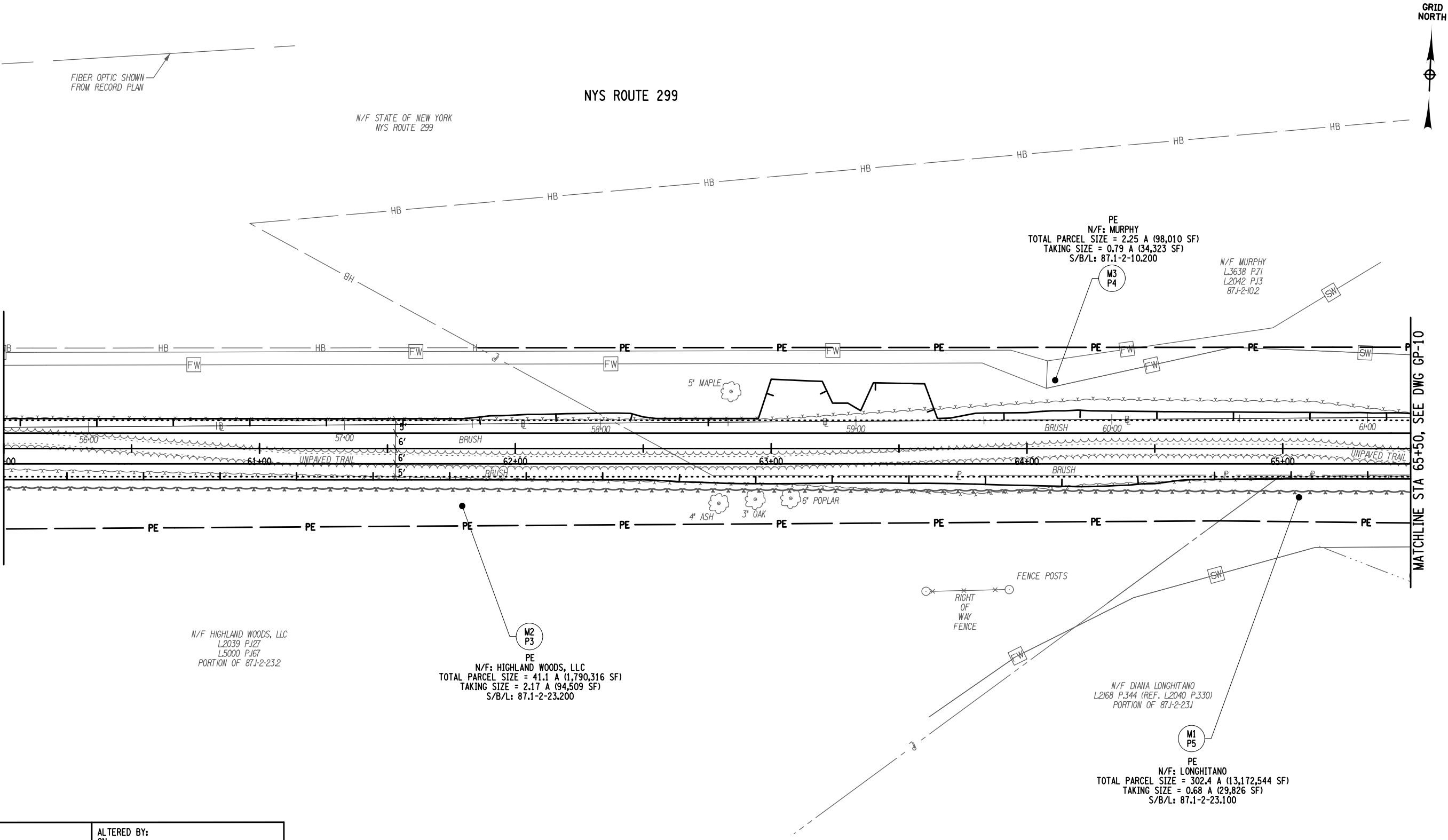
Ulster County
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FILE NAME = 876121.oph-gnp-09.dgn
DATE/TIME = 20-DEC-2017 09:58
USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD
JOB MANAGER J. GORTON
DESIGN L. BACH
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON

MATCHLINE STA 60+00, SEE DWG GP-08



AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
					GENERAL PLAN	DRAWING NO. GP-09
	COUNTY: ULSTER REGION: 8					SHEET NO. 38
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					HVEA ENGINEERS BEACON, NEW YORK 12508 (845) 838-3600 www.hveapc.com	Ulster County ulstercountyny.gov

FILE NAME = 876121.oph_gnp_10.dgn
DATE/TIME = 20-DEC-2017 09:58
USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH CHECK J. GORTON DRAFTING K. FISCHER CHECK L. BACH PROJECT MANAGER J. GORTON

NOTE:

1. PAVEMENT SECTION IN THIS AREA, STA. 70+50 TO STA. 70+84, SHALL BE 6" ASPHALT, ITEM 608.020102 AND 12" SUBBASE, ITEM 304.1100008.

AFFIX SEAL: ON:	ALTERED BY: ON:
<div></div>	

CURVE 14
P.C. = 68+60.49
P.T. = 72+25.38
R = 5000.00'
L = 364.89'
Δ = 04°10'53" RT

ITEM NO.	SYMBOL	QUANTITY	GENUS AND SPECIES / COMMON NAME	SIZE	REMARKS
611.0542	BS	3	BUXUS SEMPERVIRENS/BOXWOOD	2' HGT	3' O.C. SPACING

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4

PIN 8761.21

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

GENERAL PLAN

DRAWING NO. GP-10

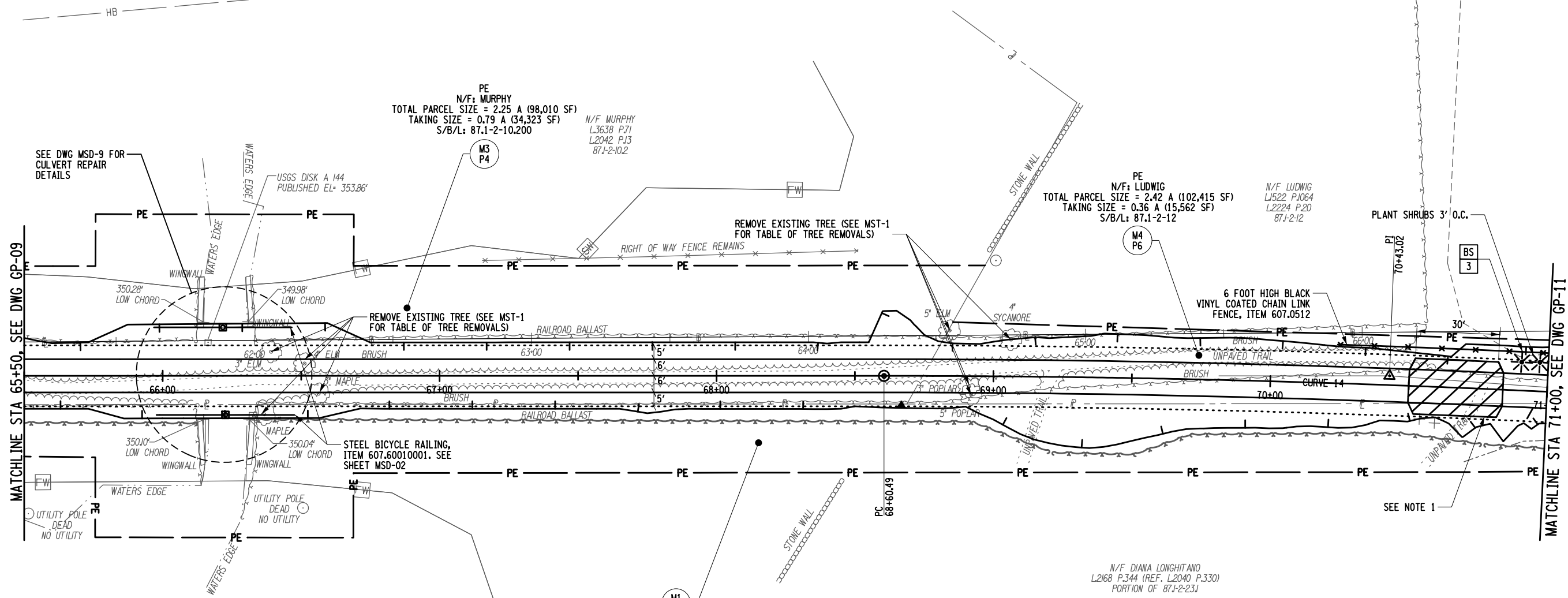
SHEET NO. 39

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



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FILE NAME = 876121.oph_gnp-11.dgn
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USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD
JOB MANAGER J. GORTON
DESIGN L. BACH
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON

- NOTE:
- PAVE PROPOSED SHOULDER WITH ITEM 608.020102 AT THE SAME DEPTH AS THE TRAIL. SLOPE SHALL BE NO STEEPER THAN 1:6 BUT NO FLATTER THAN 1.5% TO MEET EXISTING FIELD ACCESS.

AFFIX SEAL: ON:	ALTERED BY: ON:

CURVE 14
P.C. = 68+60.49
P.T. = 72+25.38
R = 5000.00'
L = 364.89'
Δ = 04°10'53" RT

ITEM NO.	SYMBOL	QUANTITY	GENUS AND SPECIES / COMMON NAME	SIZE	REMARKS
611.0382	PG	6	PICEA GLAUCA/WHITE SPRUCE	8' HGT	14' O.C. SPACING
611.0542	BS	51	BUXUS SEMPERVIRENS/BOXWOOD	2' HGT	4' O.C. SPACING

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4

PIN 8761.21

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

GENERAL PLAN

DRAWING NO. GP-11

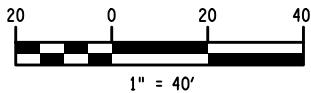
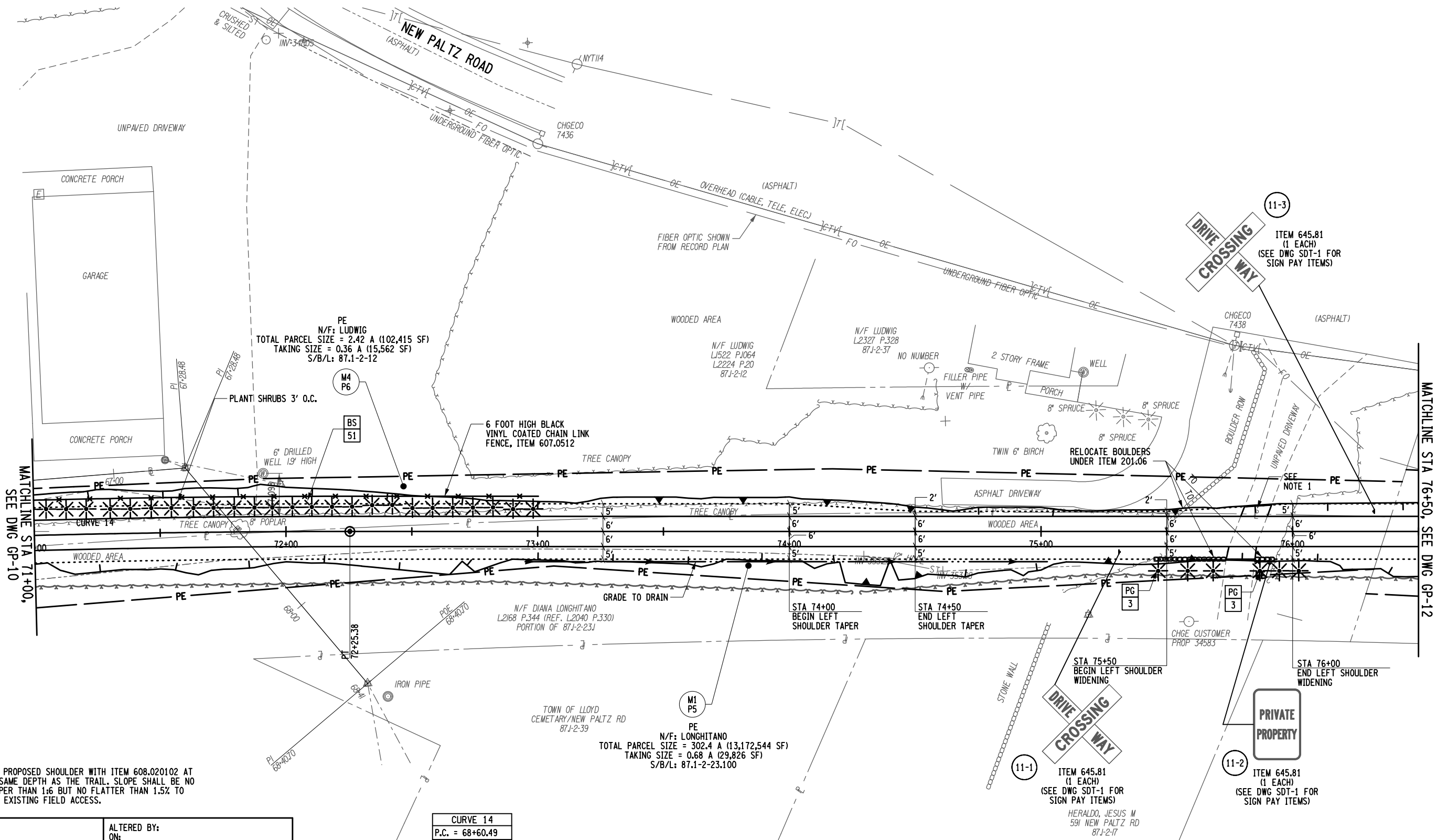
SHEET NO. 40

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



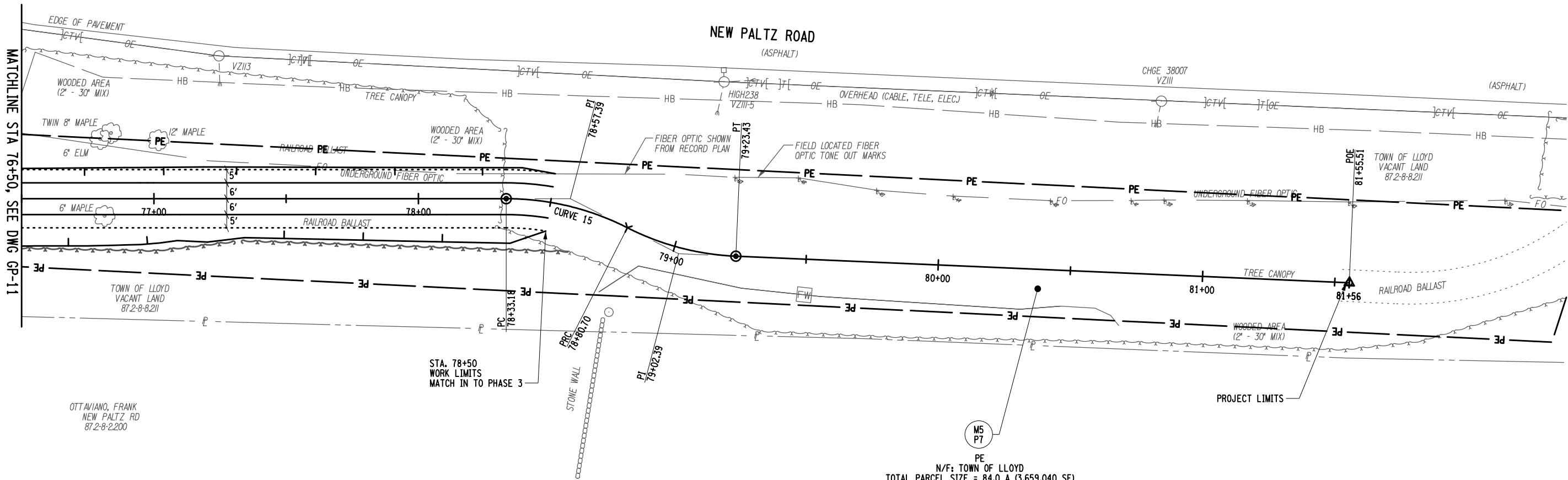
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FILE NAME = 876121.oph_gnp-12.dgn
DATE/TIME = 20-DEC-2017 09:58
USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH CHECK J. GORTON DRAFTING K. FISCHER CHECK L. BACH PROJECT MANAGER J. GORTON



AFFIX SEAL: ON:	ALTERED BY: ON:

CURVE 15
P.C. = 78+33.18
P.R.C. = 78+80.70
R = 101.00'
L = 47.52'
$\Delta = 26^{\circ}57'33''$ RT

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21
COUNTY: ULSTER	REGION: 8

BRIDGES	CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
GENERAL PLAN	DRAWING NO. GP-12
	SHEET NO. 41

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

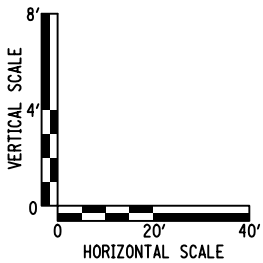
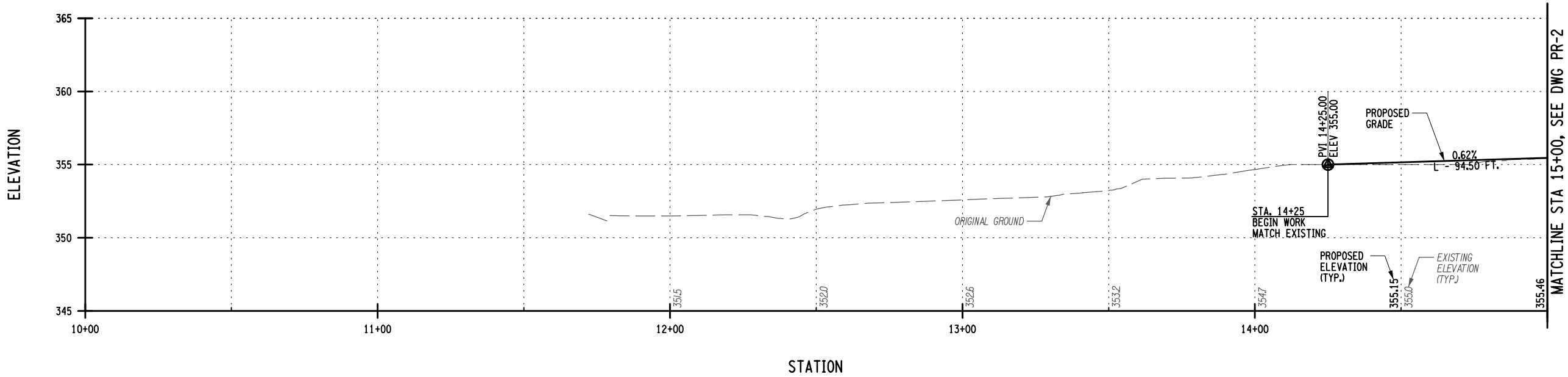


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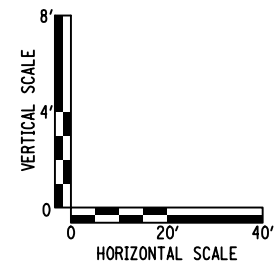
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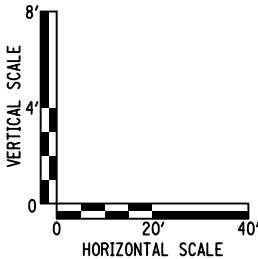
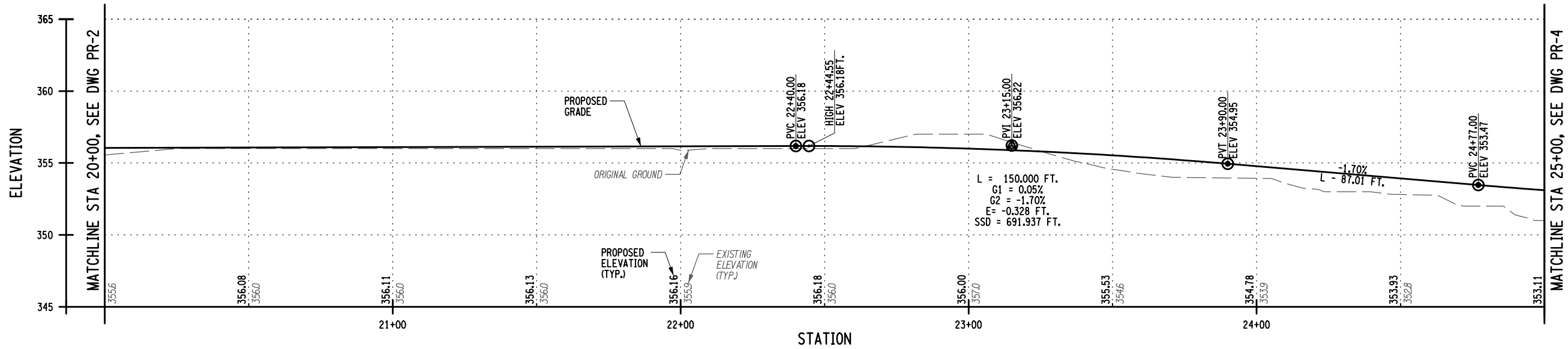
FILE NAME = 876121_oph_pro_01.dgn
DATE/TIME = 20-DEC-2017 09:58
USER = Catherine






AFFIX SEAL: ON:		ALTERED BY: ON:												<div><div>VERTICAL SCALE</div><div><div>0</div><div>20'</div><div>40'</div></div><div>HORIZONTAL SCALE</div></div>							
		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		HUDSON VALLEY RAIL TRAIL WEST - PHASE 4		PIN 8761.21		BRIDGES		CULVERTS		ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED		CONTRACT NUMBER							
												PROFILE		DRAWING NO. PR-1							
														SHEET NO. 42							
						COUNTY: ULSTER		REGION: 8													
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.														<div><div>HVEA</div><div>ENGINEERS</div></div>		BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com		<div>Ulster County</div> <div>ulstercountyny.gov</div>		<div></div>	

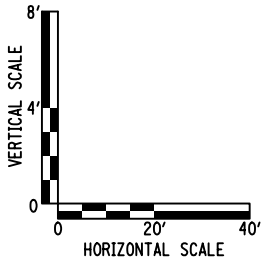
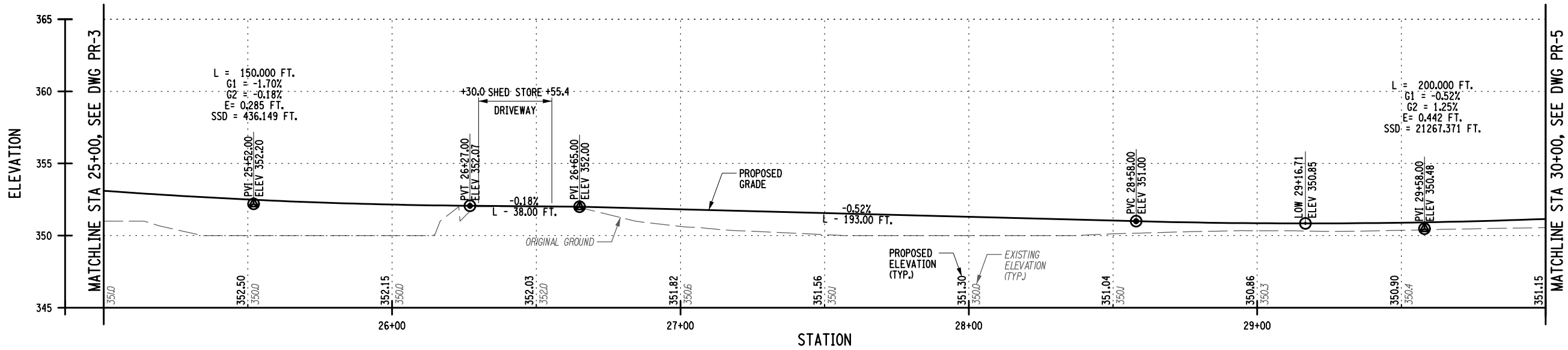


AFFIX SEAL: ON:		ALTERED BY: ON:							
		<div><div><div>VERTICAL SCALE</div><div><div><div>0</div><div>20'</div><div>40'</div></div><div><div>0</div><div>20'</div><div>40'</div></div></div><div>HORIZONTAL SCALE</div></div></div>							
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER		
						PROFILE	DRAWING NO. PR-2		
							SHEET NO. 43		
		COUNTY: ULSTER	REGION: 8						
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						<div><div><div><div>HVEA</div><div>ENGINEERS</div></div><div>BEACON, NEW YORK 12508 (845) 838-3600 www.hveapc.com</div></div></div>		<div><div><div>Ulster County</div><div>ulstercountyny.gov</div></div><div></div></div>	




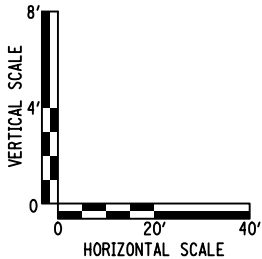
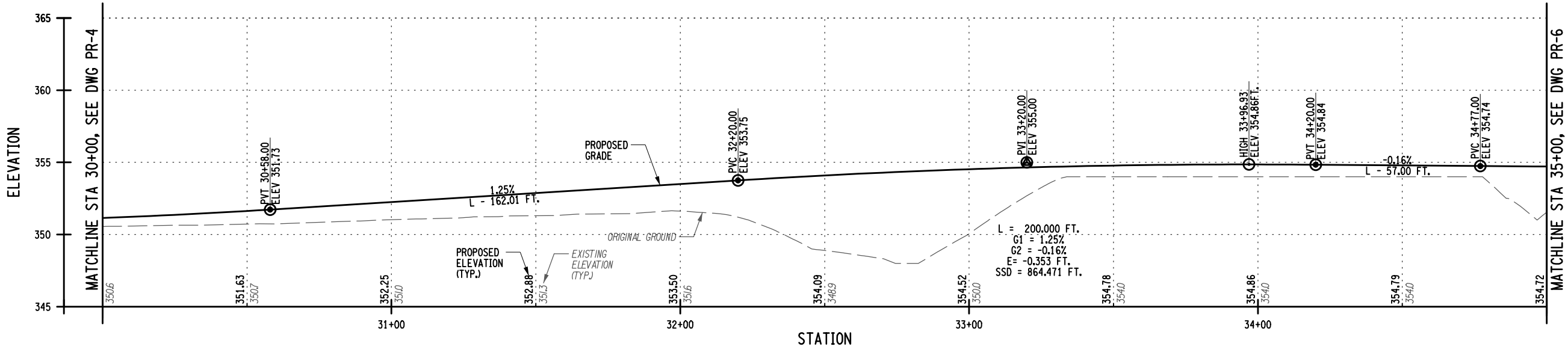
AFFIX SEAL: ON:	ALTERED BY: ON:


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
					PROFILE	DRAWING NO.	PR-3
						SHEET NO.	44
	COUNTY: ULSTER						
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					<div><div>BEACON, NEW YORK 12508 (845) 638-3000 www.hveapc.com</div></div>	<div><div>Ulster County ulstercountyny.gov</div></div> <div></div>	



AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
					PROFILE		
	COUNTY: ULSTER						REGION: 8
					SHEET NO.	45	
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					<div><div><div>HVEA</div><div>ENGINEERS</div></div><div>BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com</div></div> <div><div>Ulster County</div><div>ulstercountyny.gov</div></div> <div></div>		



AFFIX SEAL: ON:		ALTERED BY: ON:															
		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		HUDSON VALLEY RAIL TRAIL WEST - PHASE 4		PIN 8761.21		BRIDGES		CULVERTS		ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED		CONTRACT NUMBER			
												PROFILE		DRAWING NO. PR-5			
														SHEET NO. 46			
												COUNTY: ULSTER REGION: 8					
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.														<div>HVEA ENGINEERS</div> <div>BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com</div>		<div>Ulster County</div> <div>ulstercountyny.gov</div> <div></div>	

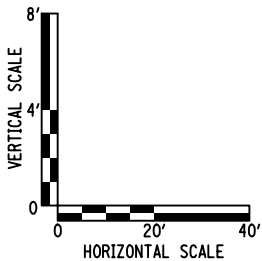
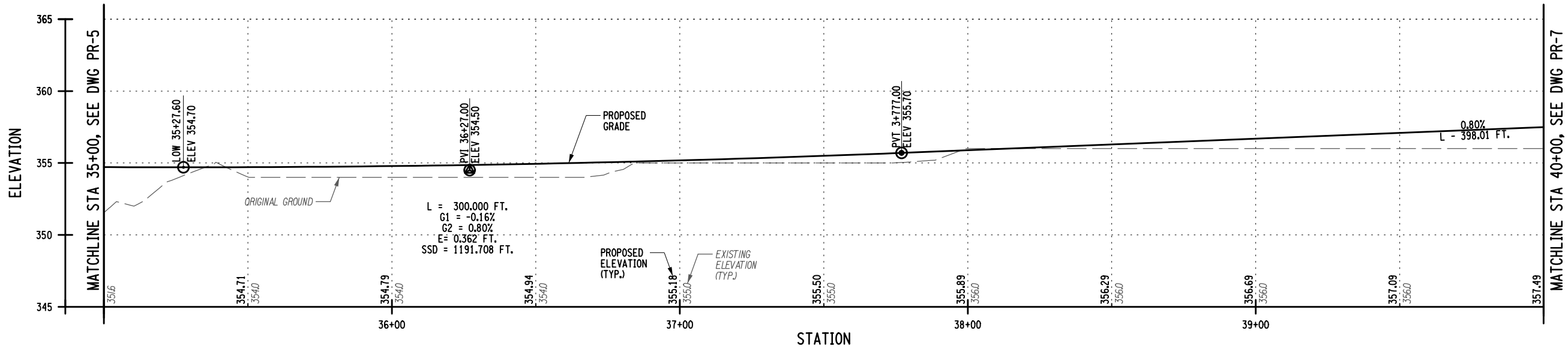
VERTICAL

0




20'

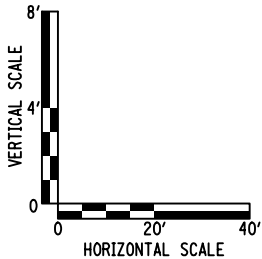
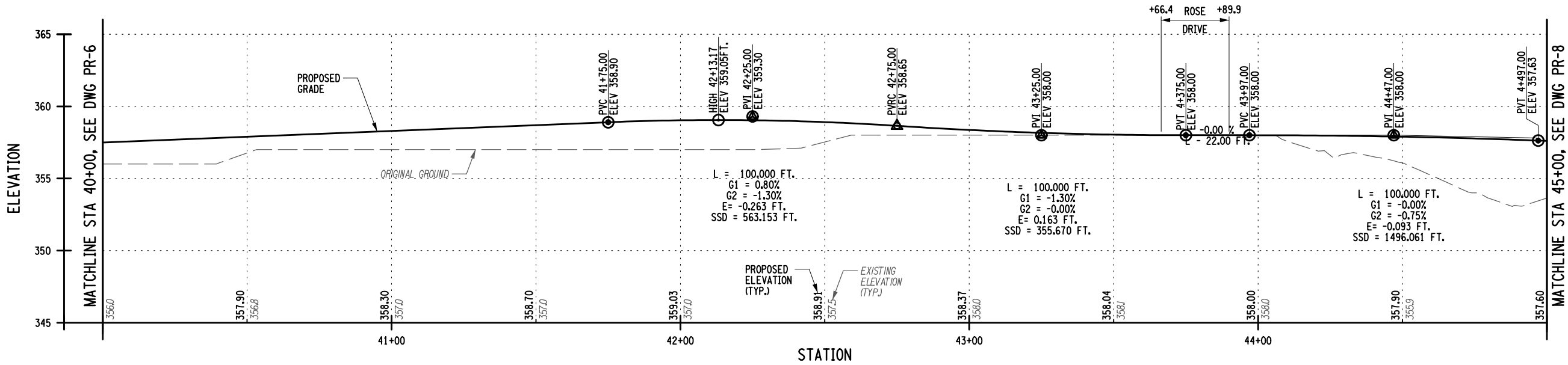
40'

HORIZONTAL SCALE



AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED		CONTRACT NUMBER		
					PROFILE		DRAWING NO. PR-6 SHEET NO. 47		
	COUNTY: ULSTER	REGION: 8							
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					 BEACON, NEW YORK 12508 (845) 638-3000 www.hveapc.com		 Ulster County ulstercountyny.gov		



AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4

PIN 8761.21

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

PROFILE

DRAWING NO. PR-7

SHEET NO. 48

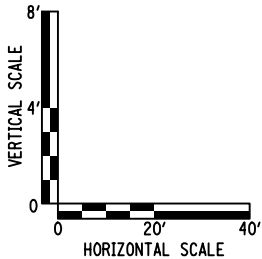
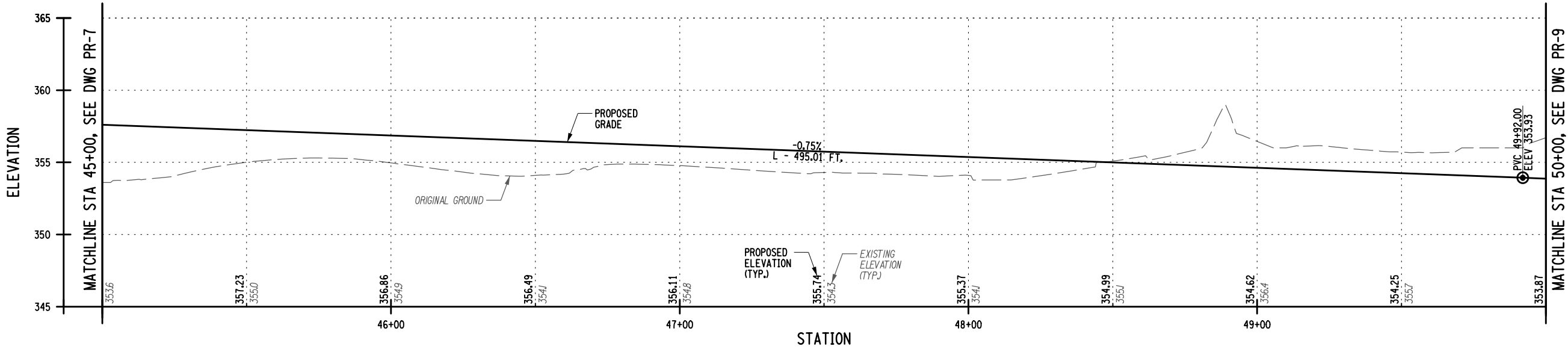
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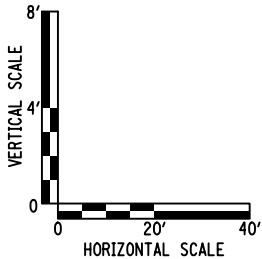
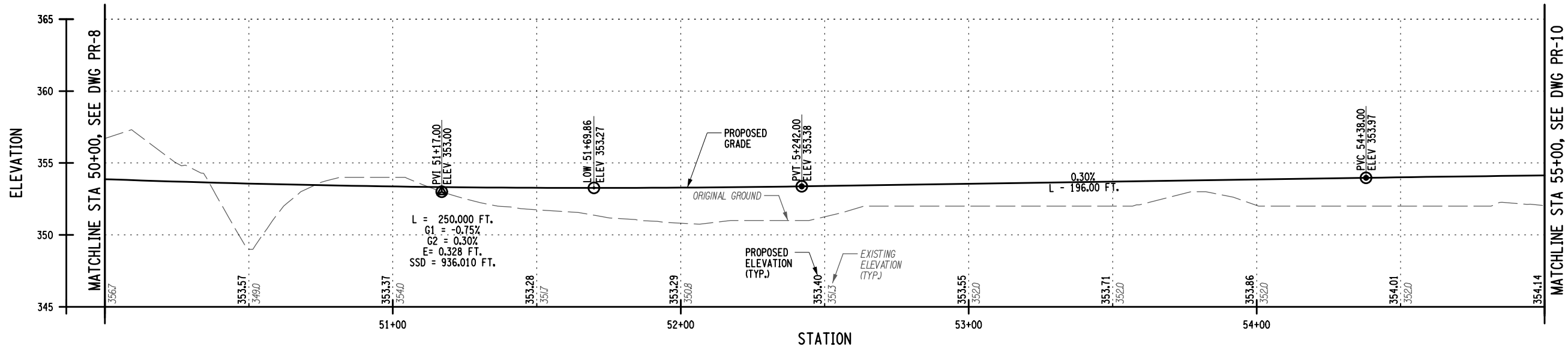


AFFIX SEAL: ON:	ALTERED BY: ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
						DRAWING NO. PR-8
					SHEET NO. 49	
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					 BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com	 ulstercountyny.gov

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USER = Catherine

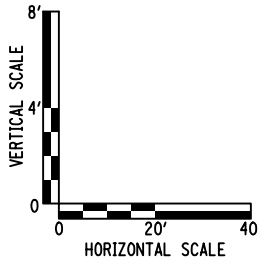
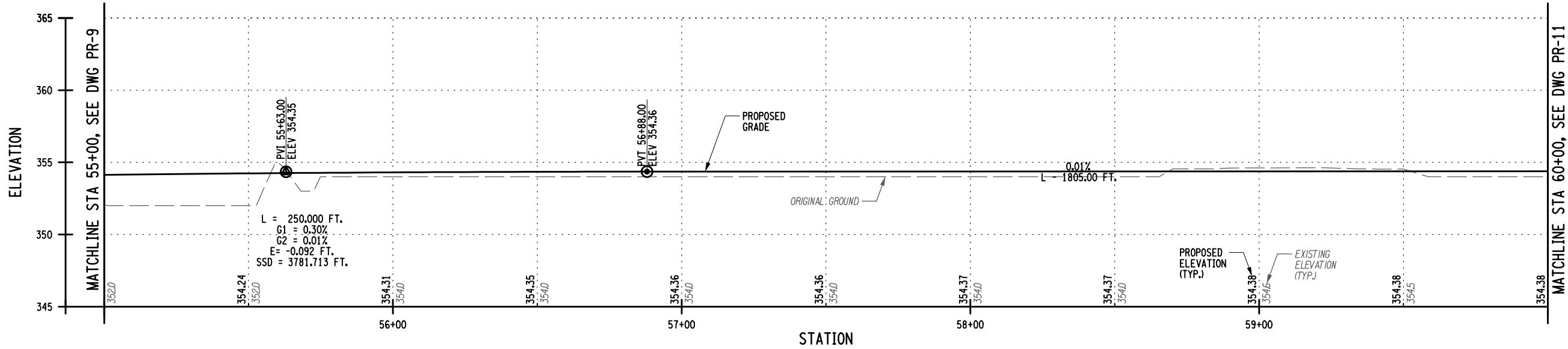
DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH CHECK J. GORTON DRAFTING K. FISCHER CHECK L. BACH PROJECT MANAGER J. GORTON




AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
	COUNTY: ULSTER				REGION: 8		
					PROFILE	DRAWING NO.	PR-9
						SHEET NO.	50
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					 BEACON, NEW YORK 12508 (845) 838-3000 www.hveapc.com	 ulstercountyny.gov	

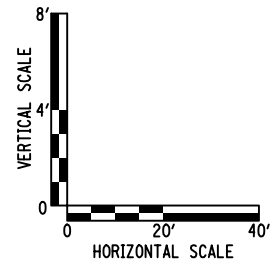
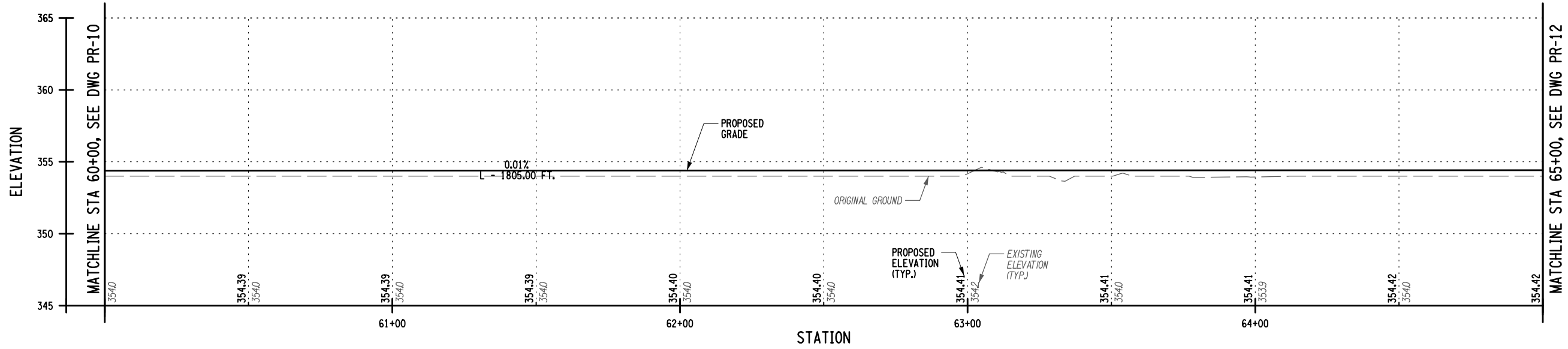
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USER = Catherine



AFFIX SEAL: ON:		ALTERED BY: ON:												<div><div>VERTICAL SCALE</div><div><div>0</div><div>20'</div><div>40'</div></div><div><div>0</div><div>20'</div><div>40'</div></div><div>HORIZONTAL SCALE</div></div>							
		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		HUDSON VALLEY RAIL TRAIL WEST - PHASE 4		PIN 8761.21		BRIDGES		CULVERTS		ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED		CONTRACT NUMBER							
												PROFILE		DRAWING NO. PR-10							
														SHEET NO. 51							
				COUNTY: ULSTER		REGION: 8															
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.														<div><div>HVEA</div><div>ENGINEERS</div></div>		<div>BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com</div>		<div>Ulster County</div> <div>ulstercountyny.gov</div>		<div></div>	

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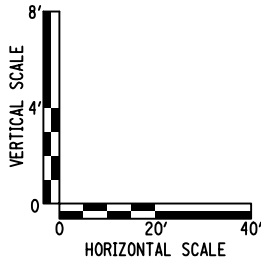
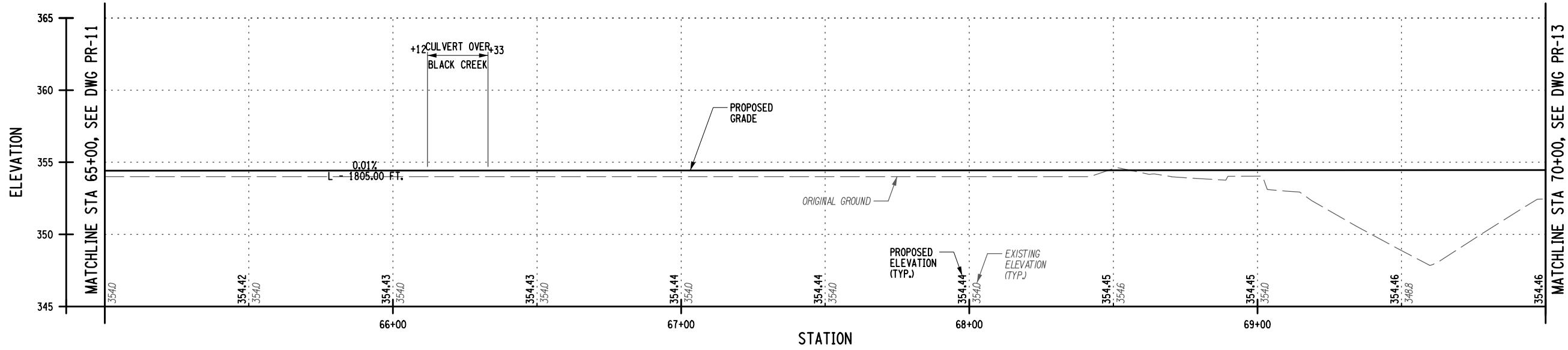
DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH DRAFTING K. FISCHER CHECK J. GORTON PROJECT MANAGER J. GORTON




AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER		
						DRAWING NO. PR-11		
					SHEET NO. 52			
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					HVEA ENGINEERS BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com		Ulster County ulstercountyny.gov	

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		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		HUDSON VALLEY RAIL TRAIL WEST - PHASE 4		PIN 8761.21		BRIDGES		CULVERTS		ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED		CONTRACT NUMBER			
												PROFILE		DRAWING NO. PR-12			
														SHEET NO. 53			
												COUNTY: ULSTER REGION: 8					
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.														<div><div><div>HVEA</div><div>ENGINEERS</div></div><div>BEACON, NEW YORK 12508 (845) 638-3000 www.hveapc.com</div></div>		<div><div>Ulster County</div><div>ulstercountyny.gov</div></div> <div></div>	

VERTICAL SCALE

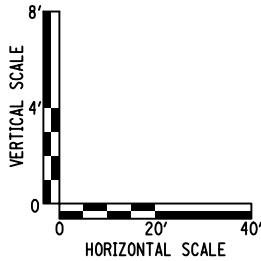
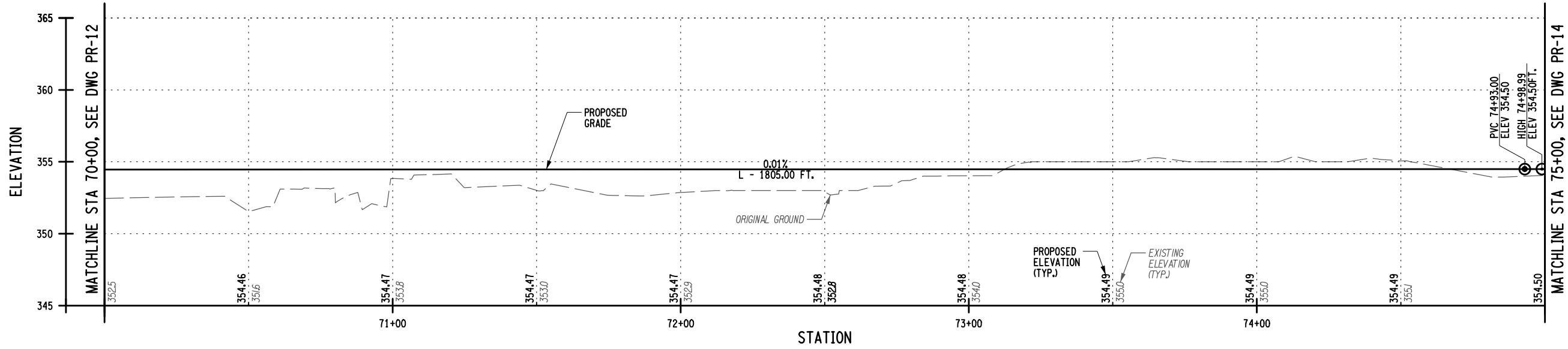
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20'

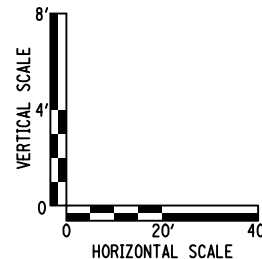
40'



HORIZONTAL SCALE

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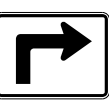

AFFIX SEAL: ON:		ALTERED BY: ON:								
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		HUDSON VALLEY RAIL TRAIL WEST - PHASE 4		PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER		
							COUNTY: ULSTER REGION: 8		PROFILE	DRAWING NO. PR-13
										SHEET NO. 54
<div>IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.</div>								<div>HVEA ENGINEERS</div> <div>BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com</div>	<div>Ulster County ulstercountyny.gov</div> <div></div>	









AFFIX SEAL: ON:		ALTERED BY: ON:											
		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED		CONTRACT NUMBER			
								PROFILE		DRAWING NO. PR-14			
										SHEET NO. 55			
				COUNTY: ULSTER		REGION: 8							
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.										BEACON, NEW YORK 12508 (845) 838-3600 www.hveapc.com			

VERTICAL
0
4'




020'40'
HORIZONTAL SCALE

SIGN INSTALLATION TABLE					
DESIGNATION & COLOR (SEE NOTE 2)	LOCATION	TEXT	ITEM	SIZE	PAYMENT AREA (SEE NOTE 3)
				AREA (SEE NOTE 3)	TOTAL PAYMENT AREA
R1-1	3-5, 3-6, 6-3, 6-4		645.5202	18" x 18"	2.3 SF
				1.8 SF	11.5 SF
R5-3	1-1, 3-2, 3-3, 6-2, 6-5		645.5102	24" x 24"	4.0 SF
				4.0 SF	20.0 SF
W11-15	3-1 (2) , 3-4 (2), 5-1, 6-1, 6-6, 6-9, 6-10, 6-11		645.5102	30" x 30"	6.3 SF
				6.3 SF	63.0 SF
W11-15P	3-1 (2) , 3-4 (2), 5-1, 6-1, 6-6, 6-9, 6-10, 6-11		645.5102	24" x 18"	3.0 SF
				3.0 SF	30.0 SF
W16-7PL	3-1, 3-4, 6-1, 6-6		645.5102	24" x 12"	2.0 SF
				2.0 SF	8.0 SF
W16-7PR	3-1, 3-4, 6-10, 6-11		645.5102	24" x 12"	2.0 SF
				2.0 SF	8.0 SF
W16-6PR	5-1		645.5102	24" x 12"	2.0 SF
				2.0 SF	2.0 SF
W16-6PL	6-9		645.5102	24" x 12"	2.0 SF
				2.0 SF	2.0 SF

SIGN INSTALLATION TABLE					
DESIGNATION & COLOR (SEE NOTE 2)	LOCATION	TEXT	ITEM	SIZE	PAYMENT AREA (SEE NOTE 3)
				AREA (SEE NOTE 3)	TOTAL PAYMENT AREA
R7-8	2-2		645.5102	12" x 18"	1.5 SF
				1.5 SF	1.5 SF
R7-8P	2-2		645.5102	18" x 9"	1.125 SF
				1.125 SF	1.125 SF
NYP1-7	2-1		645.5102	12" x 18"	1.5 SF
				1.5 SF	1.5 SF
CUSTOM	7-1, 11-2		645.5102	18" x 30"	1.5 SF
				1.5 SF	3.0 SF
R1-1	2-3		645.5202	30" x 30"	6.3 SF
				5.0 SF	6.3 SF
CUSTOM	3-8, 3-9, 4-1, 5-1, 6-8, 6-9, 11-1, 11-3		645.5102	24" X 4.5"	1.3 SF
				1.3 SF	10.4 SF

NOTES:

- SIGN LOCATIONS AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL INSTALL NEW SIGNS AND RELOCATE EXISTING SIGNS IN ACCORDANCE WITH THE MUTCD AND NYS SUPPLEMENT.
- THE COLOR IS ONLY SHOWN WHEN THERE IS AN OPTION THAT MUST BE SPECIFIED.
- THE AREA AND PAYMENT AREA FOR SIGNS ARE FROM THE APPLICABLE STANDARD SHEETS OR SIGN FACE LAYOUT.

AFFIX SEAL: ON:		ALTERED BY: ON:															
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		 <div>BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com</div>												 <div>Ulster County ulstercountyny.gov</div>			

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DESIGN SUPERVISOR

B. FITZGERALD

JOB MANAGER

J. GORTON

DESIGN

L. BACH

CHECK

J. GORTON

DRAFTING

K. FISCHER

CHECK

L. BACH

PROJECT MANAGER

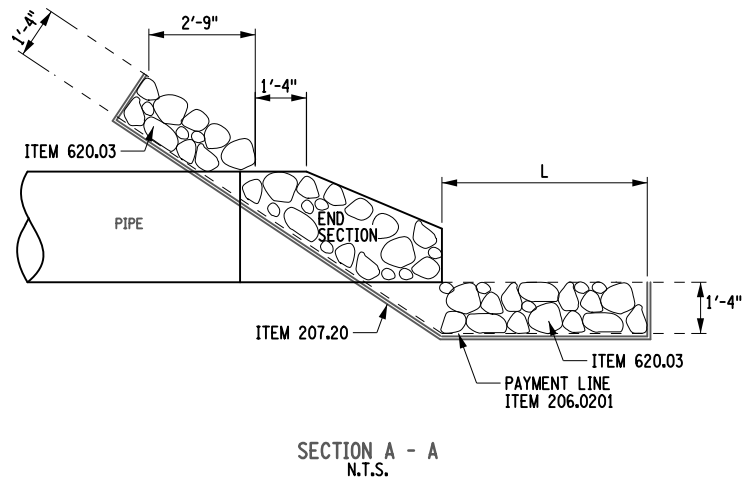
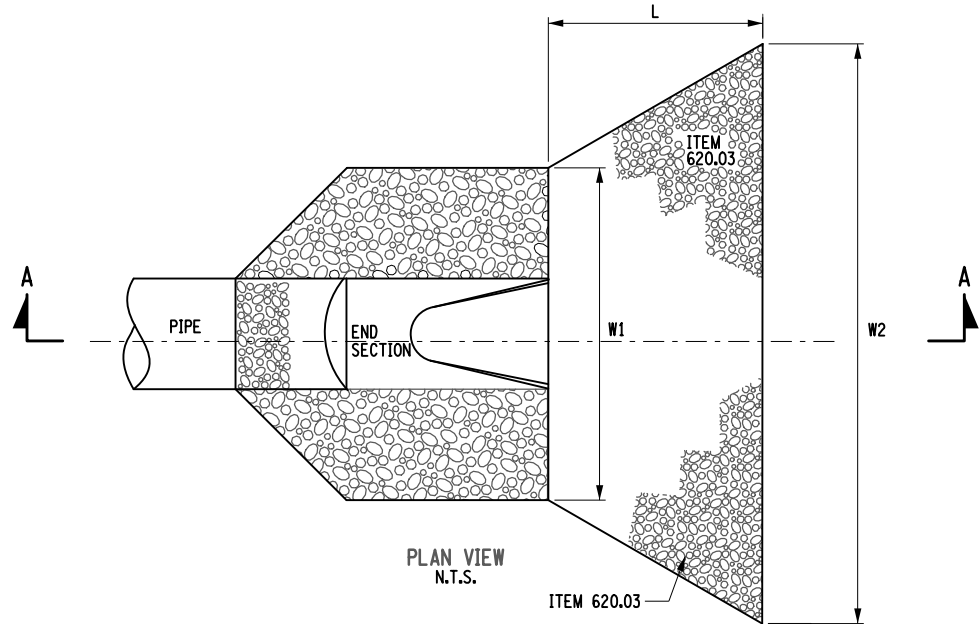
J. GORTON

TABLE OF PROPOSED DRAINAGE																							
ID NO.	LOCATION	TG ELEV. (SEE NOTE 1)	FRAME TYPE	STR. TYPE	PIPE INVERT (SEE NOTE 1)		PROPOSED WORK	203.07 CY	206.0201 CY	207.20 SY	603.051416 LF	603.171316 EA	603.171912 EA	603.6001 LF	603.7301 EA	603.9818 LF	603.9836 LF	604.302122 LF	620.03 CY	655.1122 EA			
					INLET	OUTLET																	
DP 1-1	STA. 15+85, 11.25 FT LT	355.00	WELDED #22	U	351.75	350.68	INSTALL RECTANGULAR DRAINAGE STRUCTURE TYPE U. BACKFILL WITH SELECT GRANULAR FILL. INSTALL 215' OF ITEM 603.6001 (SEE NYSDOT STANDARD SHEET 203-05).	60.5	122.2	2.2				215.0					4.2	0.9	1		
DP 1-2	STA. 16+92, 4.04 FT RT	355.34	WELDED #22	U	350.68	350.53	INSTALL RECTANGULAR DRAINAGE STRUCTURE TYPE U. BACKFILL WITH SELECT GRANULAR FILL. INSTALL 30' OF ITEM 603.6001 (SEE NYSDOT STANDARD SHEET 203-05). INSTALL ITEM 603.7301 AT OUTLET OF PROPOSED PIPE.	16.8	21.5	2.2				30.0	1.0				5.6	0.9	1		
DP 2-1	STA. 18+78, 5.50 FT LT				353.00	349.75	INSTALL 70' OF ITEM 603.6001 (SEE NYSDOT STANDARD SHEET 203-05). INSTALL ITEM 603.7301 AT OUTLETS OF PROPOSED PIPE.	17.1	7.7	2.2				70.0	2.0					0.9			
DP 3-1	STA. 26+42, 22.67 FT LT				350.00	349.75	INSTALL 50' OF ITEM 603.6001 UNDERNEATH EXISTING DRIVEWAY. INSTALL ITEM 603.7301 AT INLET AND OUTLET OF PROPOSED PIPE.	12.7	11.6	4.4				50.0	2.0					1.9			
DP 3-2	STA. 27+98, 2.45 FT LT				349.40	349.00	INSTALL 75' OF ITEM 603.6001.INSTALL ITEM 603.7301 AT INLET AND OUTLET OF PROPOSED PIPE.	19.0	7.7	4.4				75.0	2.0					1.9			
DP 4-1	STA. 32+61, 0.54 FT LT				347.58	347.40	INSTALL 55' OF ITEM 603.9836. BACKFILL WITH SELECT GRANULAR FILL (SEE NYSDOT STANDARD SHEET 203-05). INSTALL ITEM 603.171912 AT INLET AND OUTLET OF PROPOSED PIPE.	49.2	16.7	19.1			2.0				55.0		14.1				
DP 4-2	STA. 36+25, 18.54 FT LT				350.99	350.48	INSTALL 50' OF ITEM 603.6001 (SEE NYSDOT STANDARD SHEET 203-05). INSTALL ITEM 603.7301 AT OUTLETS OF PROPOSED PIPE.	12.0	7.7					50.0	2.0					0.9			
DP 5-1	STA. 37+00, 20.50 FT LT				351.5	351.19	INSTALL 30' OF ITEM 603.6001 (SEE NYSDOT STANDARD SHEET 203-05). INSTALL ITEM 603.7301 AT OUTLETS OF PROPOSED PIPE.	7.0	7.7					30.0	2.0					0.9			
DP 6-1	STA. 45+00, 2.82 FT RT	356.38	WELDED #22	U	353.22	352.79	INSTALL RECTANGULAR DRAINAGE STRUCTURE TYPE U AT LOW POINT. BACKFILL WITH SELECT GRANULAR FILL. INSTALL 32' OF ITEM 603.9818 TO OUTLET ON SOUTH SIDE OF PROPOSED TRAIL (SEE NYSDOT STANDARD SHEET 203-05). INSTALL 603.171316 AT OUTLET OF PROPOSED PIPE.		12.3	3.1		1.0				32.0		4.2	1.3	1			
DP 6-2	STA. 46+63, 6.83 FT RT						REMOVE HEADWALL AT EXISTING OUTLET. INSTALL 8' OF ITEM 603.061416 (SEE DWG. NO. DRD-1 FOR DETAIL "PIPE EXTENSION)	4.5	1.3		8												
DP 7-1	STA. 50+52, 3.01 FT LT				349.40	348.98	INSTALL 77' OF ITEM 603.9836. BACKFILL WITH SELECT GRANULAR FILL (SEE NYSDOT STANDARD SHEET 203-05). INSTALL ITEM 603.171912 AT INLET AND OUTLET OF PROPOSED PIPE.	68.8	11.5	33.8			2.0				77.0		14.1				
NOTE: 1. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS PRIOR TO ORDERING ANY DRAINAGE ITEMS.							TOTALS	267.6	227.9	71.6	8.0	1.0	4.0	520.0	11.0	32.0	132.0	13.9	37.8	3.0	0.0	0.0	

AFFIX SEAL: ON:		ALTERED BY: ON:																					
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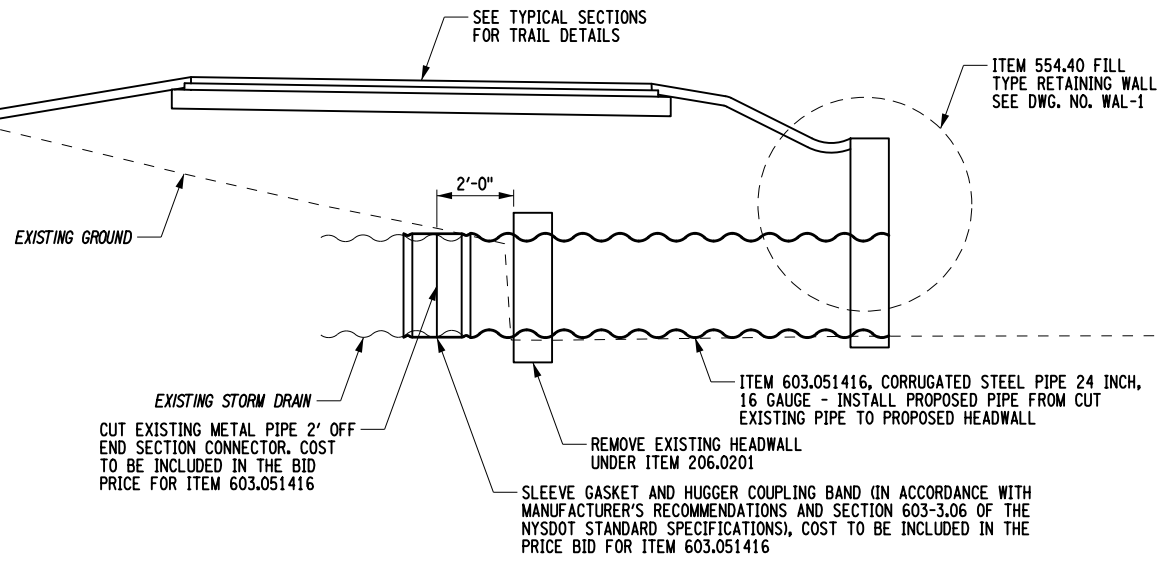
DESIGN SUPERVISOR B. FITZGERALD
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DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON



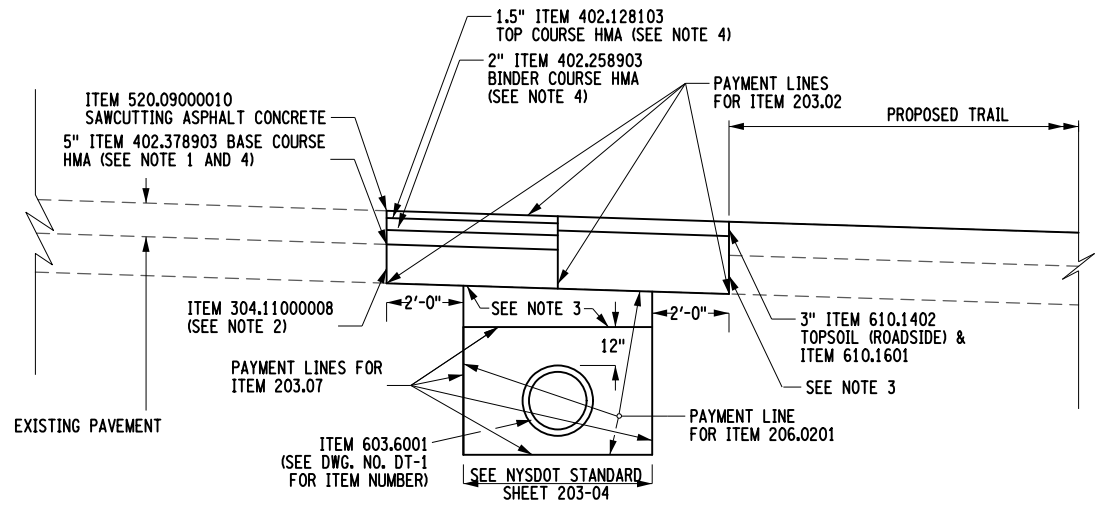
DRAINAGE INLET & OUTLET RIP RAP PROTECTION
SEE "DRAINAGE STRUCTURE RIP RAP PROTECTION TABLE" THIS SHEET

DRAINAGE STRUCTURE RIP RAP PROTECTION TABLE				
ITEM 620.03-STONE FILLING LIGHT				
DS NO.	DIMENSIONS (IN.)			
	W1	W2	L	
1-1	3	5	5	
1-2	3	5	5	
3-1	3	5	5	
3-1	3	5	5	
3-2	3	5	5	
3-2	3	5	5	
4-1	9	12.75	14	
4-1	9	12.75	14	
4-2	3	5	5	
5-1	3	5	5	
6-1	4.5	6.5	5	
7-1	9	12.75	14	
7-1	9	12.75	14	

ELEVATION



PIPE EXTENSION DETAIL
NOT TO SCALE



PAVEMENT RESTORATION DETAIL FOR PIPE CROSSINGS
N.T.S.

- NOTES:
1. REPLACED PAVEMENT SHALL MATCH EXISTING ASPHALT DEPTH. BASE COURSE ITEM 402.378903 VARIES (5" MAX.) TO MATCH EXISTING PAVEMENT DEPTH.
 2. REPLACED SUBBASE SHALL MATCH EXISTING SUBBASE THICKNESS. FOR ESTIMATING PURPOSES IT WAS ASSUMED TO BE 12". SELECT GRANULAR FILL NEAR PAVEMENT RESTORATION WAS ASSUMED TO BE 18.5".
 3. THE TRENCH SHALL BE BACKFILLED ABOVE ITEM 203.07 LIMIT WITH SUITABLE MATERIAL. IF MATERIAL EXCAVATED FROM THE TRENCH IS DEEMED "UNSUITABLE" BY THE ENGINEER, IT SHALL BE DISPOSED OF AS PER SECTION 206-3.01. BACKFILL OF THE TRENCH SHALL BE DONE WITH SUITABLE MATERIAL CONFORMING TO SECTION 203-3.01D. THE COST OF THIS MATERIAL, REGARDLESS OF THE SOURCE, SHALL BE INCLUDED IN ITEM 206.0201.
 4. STRAIGHT TACK COAT MEETING THE REQUIREMENTS OF ITEM 407.0103 SHALL BE USED BETWEEN ALL LAYERS/LIFTS OF ASPHALT AND ON VERTICAL FACE OF SAWCUT IN ACCORDANCE WITH TABLE 407-1 OF THE NYSDOT STANDARD SPECIFICATIONS PAYMENT SHALL BE INCLUDED IN THE VARIOUS HMA ITEMS.

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4

PIN 8761.21

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

DRAINAGE DETAILS

DRAWING NO. DRD-01

SHEET NO. 58

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



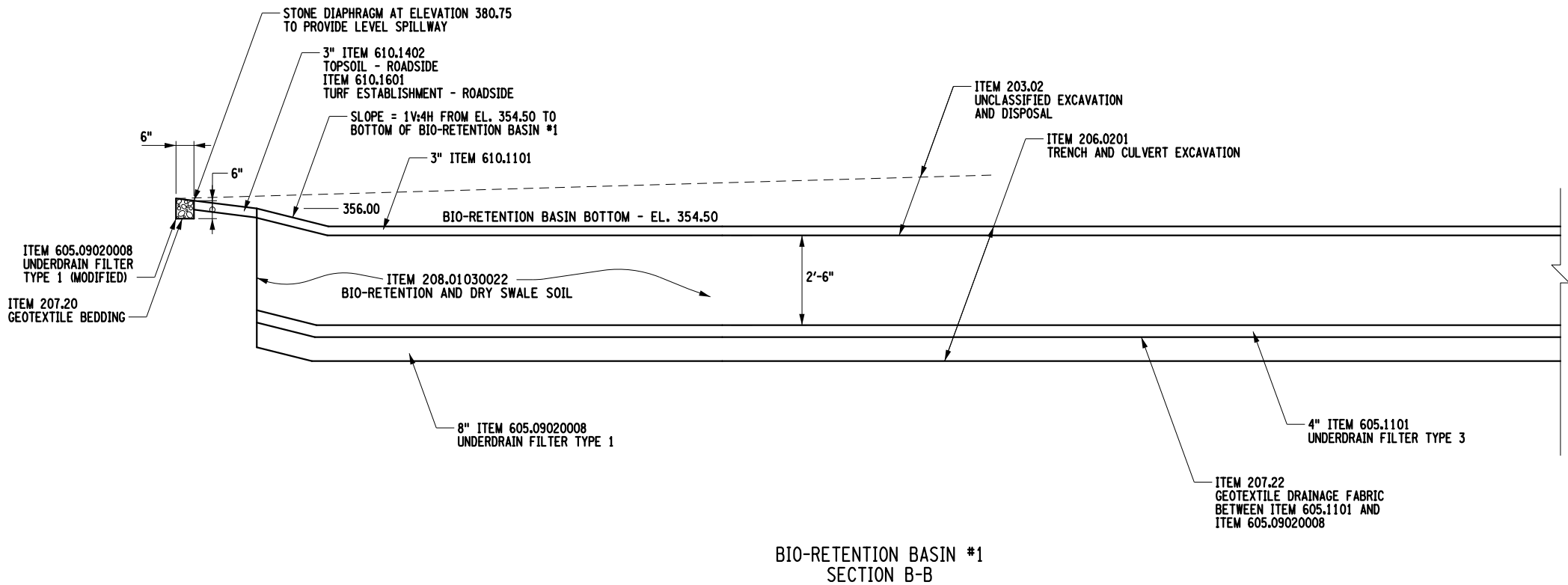
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Ulster County
ulstercountyny.gov






FILE NAME = 876121_oph_smd_01.dgn
DATE/TIME = 20-DEC-2017 09:58
USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH DRAFTING K. FISCHER CHECK J. GORTON PROJECT MANAGER J. GORTON

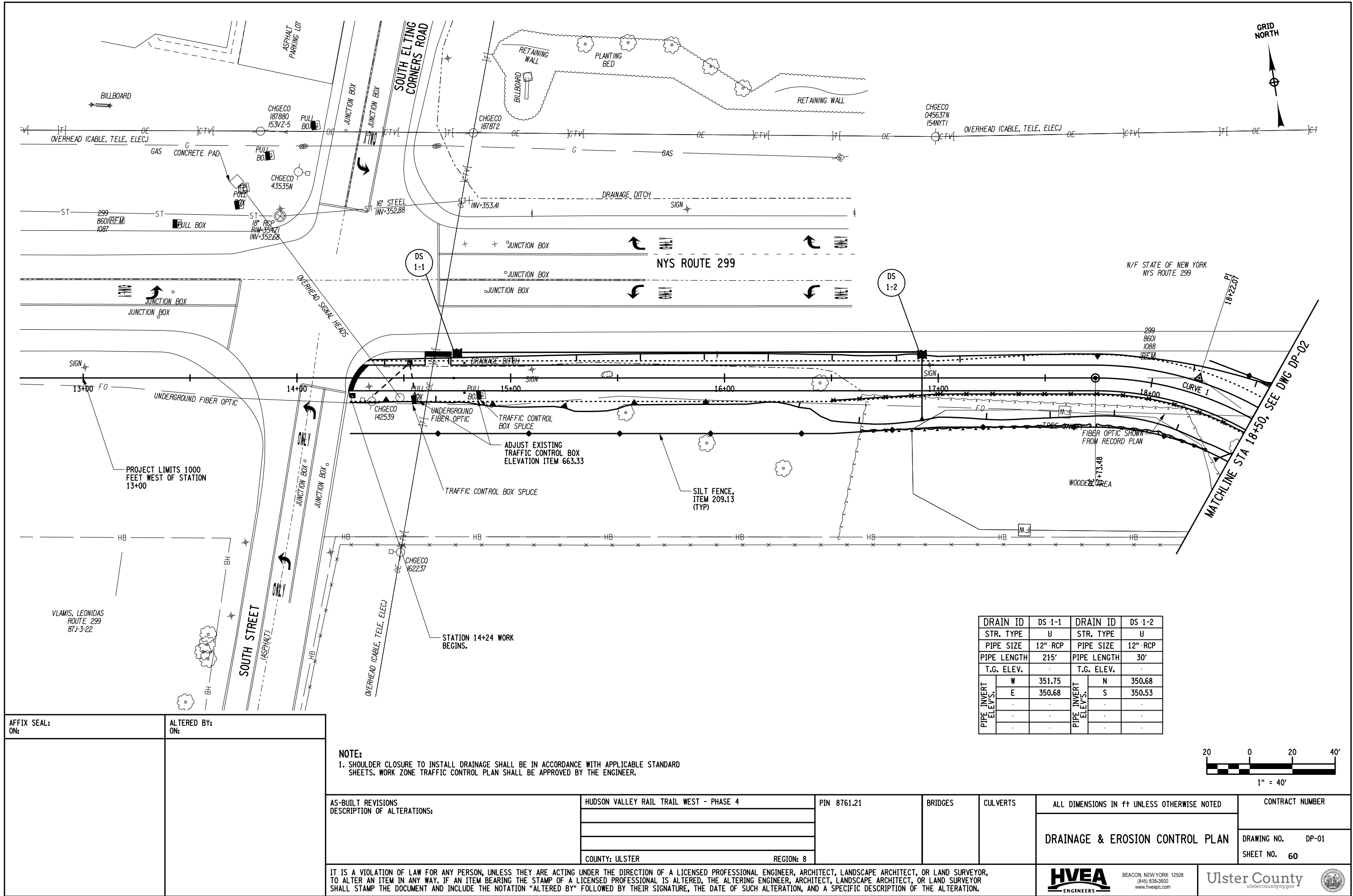


BIO-RETENTION BASIN #1
SECTION B-B

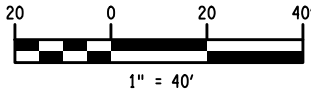
AFFIX SEAL: ON:		ALTERED BY: ON:																	
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		HUDSON VALLEY RAIL TRAIL WEST - PHASE 4		PIN 8761.21		BRIDGES		CULVERTS		ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED		CONTRACT NUMBER							
										STORMWATER MANAGEMENT DETAILS		DRAWING NO. SMD-01							
												SHEET NO. 59							
		COUNTY: ULSTER		REGION: 8															
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.														BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com					

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DESIGN SUPERVISOR B. FITZGERALD
JOB MANAGER J. GORTON
DESIGN L. BACH
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON



DRAIN ID		DS 1-1	DRAIN ID		DS 1-2
STR. TYPE		U	STR. TYPE		U
PIPE SIZE		12" RCP	PIPE SIZE		12" RCP
PIPE LENGTH		215'	PIPE LENGTH		30'
T.G. ELEV.		-	T.G. ELEV.		-
PIPE INVERT ELEV.	W	351.75	PIPE INVERT ELEV.	N	350.68
	E	350.68		S	350.53
	-	-		-	-
	-	-		-	-



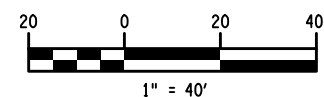
NOTE:
1. SHOULDER CLOSURE TO INSTALL DRAINAGE SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARD SHEETS. WORK ZONE TRAFFIC CONTROL PLAN SHALL BE APPROVED BY THE ENGINEER.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		HUDSON VALLEY RAIL TRAIL WEST - PHASE 4		PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED		CONTRACT NUMBER		
							DRAINAGE & EROSION CONTROL PLAN		DRAWING NO. DP-01		
		COUNTY: ULSTER REGION: 8							SHEET NO. 60		
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N/F CENTRAL HUDSON GAS AND ELECTRIC
OR
PHOENIX DEVELOPMENT CO., INC.
L2055 P.341
871-3-42

CONTRACT NUMBER	
DRAWING NO.	DP-02
SHEET NO.	61





AFFIX SEAL: ON:	ALTERED BY: ON:

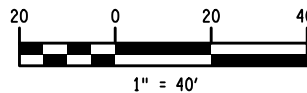
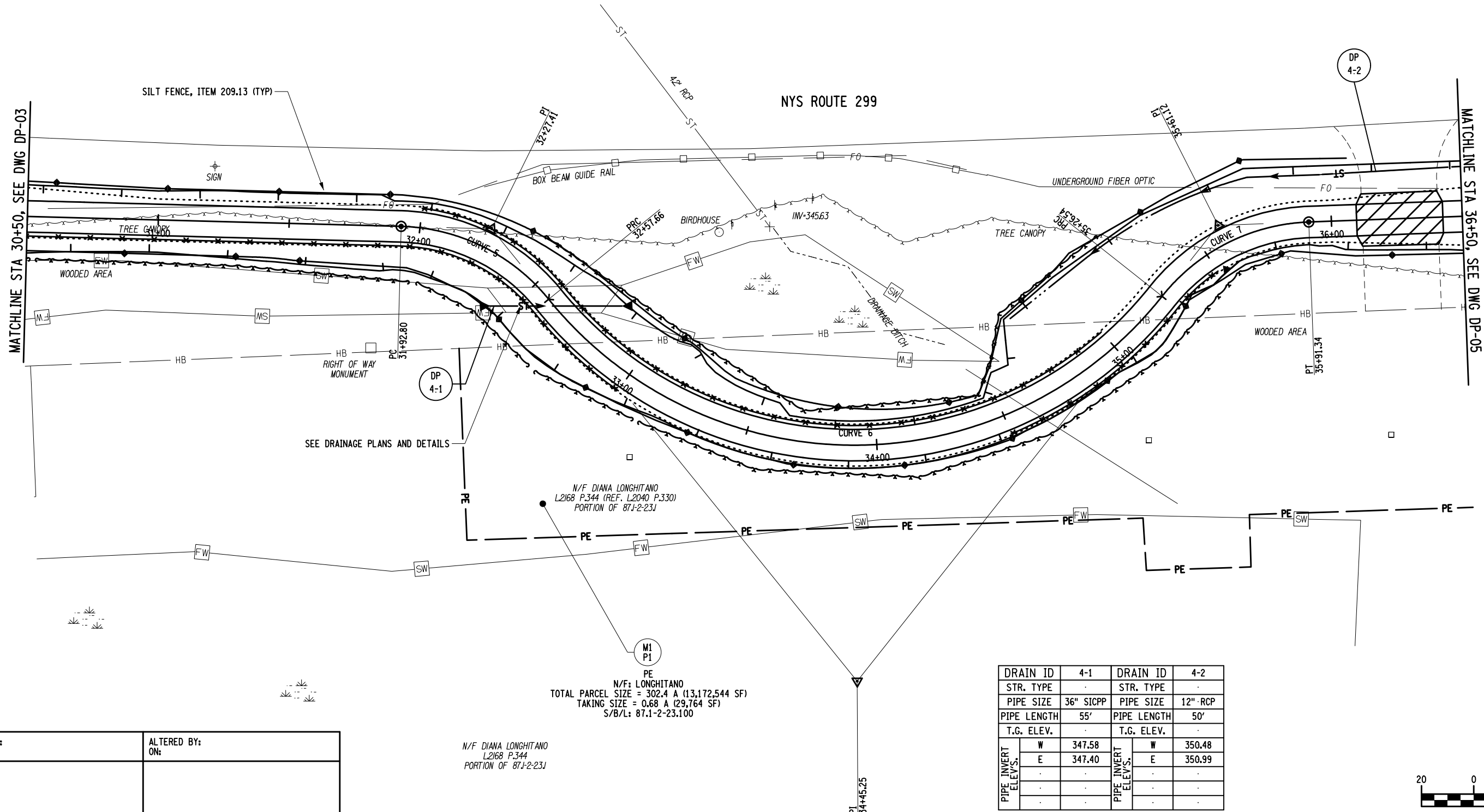


FILE NAME = 876121.oph.drp.04.dgn
DATE/TIME = 20-DEC-2017 09:58
USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH CHECK J. GORTON DRAFTING K. FISCHER CHECK L. BACH PROJECT MANAGER J. GORTON

AFFIX SEAL: ON:	ALTERED BY: ON:

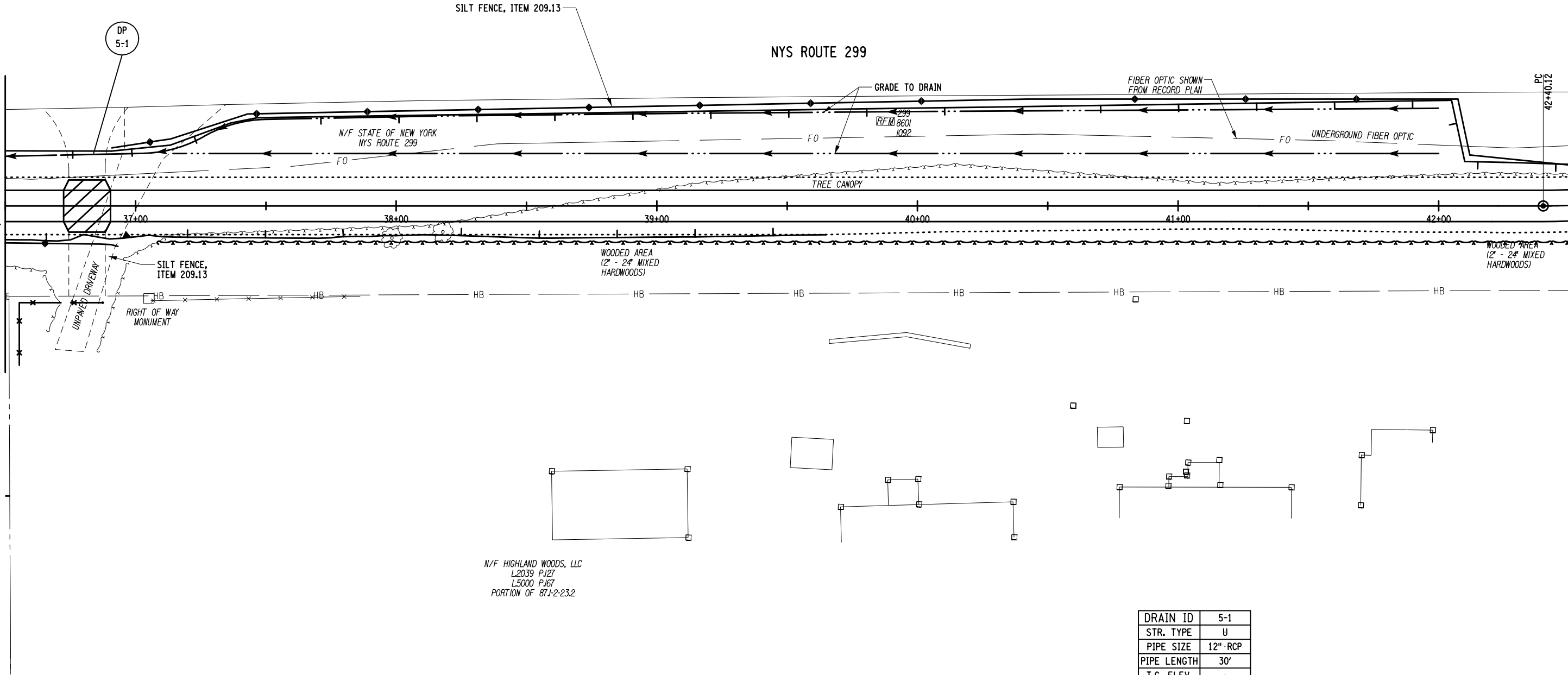
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
					DRAINAGE & EROSION CONTROL PLAN	DRAWING NO. DP-04
						SHEET NO. 63
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					HVEA ENGINEERS	BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com
					Ulster County ulstercountyny.gov	



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MATCHLINE STA 36+50, SEE DWG DP-05



ITEM 645.81
(1 EACH)
(SEE DWG SDT-1 FOR
SIGN PAY ITEMS)

SILT FENCE, ITEM 209.13

NYS ROUTE 299

GRADE TO DRAIN

FIBER OPTIC SHOWN
FROM RECORD PLAN

UNDERGROUND FIBER OPTIC

N/F STATE OF NEW YORK
NYS ROUTE 299

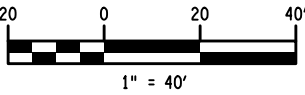
TREE CANOPY

WOODED AREA
(2' - 24' MIXED
HARDWOODS)

WOODED AREA
(2' - 24' MIXED
HARDWOODS)

N/F HIGHLAND WOODS, LLC
L2039 PJ27
L5000 PJ67
PORTION OF 87J-2-23.2

PIPE INVERT ELEV.	DRAIN ID	5-1
	STR. TYPE	U
	PIPE SIZE	12" RCP
	PIPE LENGTH	30'
	T.G. ELEV.	
	W	351.194
	E	351.50



AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUDSON VALLEY RAIL TRAIL WEST - PHASE 4

PIN 8761.21

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

DRAINAGE & EROSION CONTROL PLAN

DRAWING NO. DP-05

SHEET NO. 64

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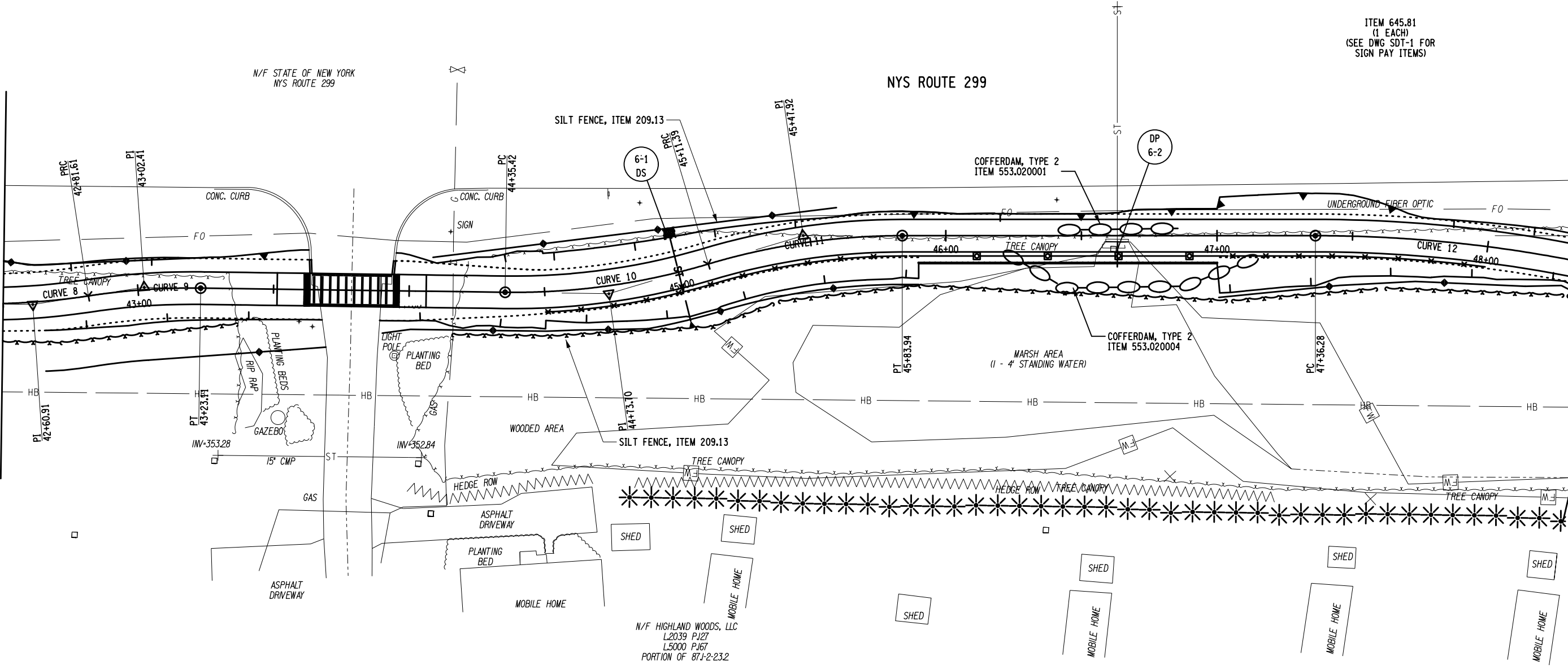


FILE NAME = 876121.dgn
DATE/TIME = 20-DEC-2017 09:58
USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD
JOB MANAGER J. GORTON
DESIGN L. BACH
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON

MATCHLINE STA 42+50, SEE DWG DP-05

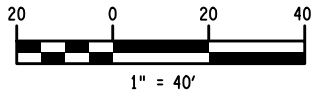
MATCHLINE STA 48+50, SEE DWG DP-07



ITEM 645.81
(1 EACH)
(SEE DWG SDT-1 FOR
SIGN PAY ITEMS)

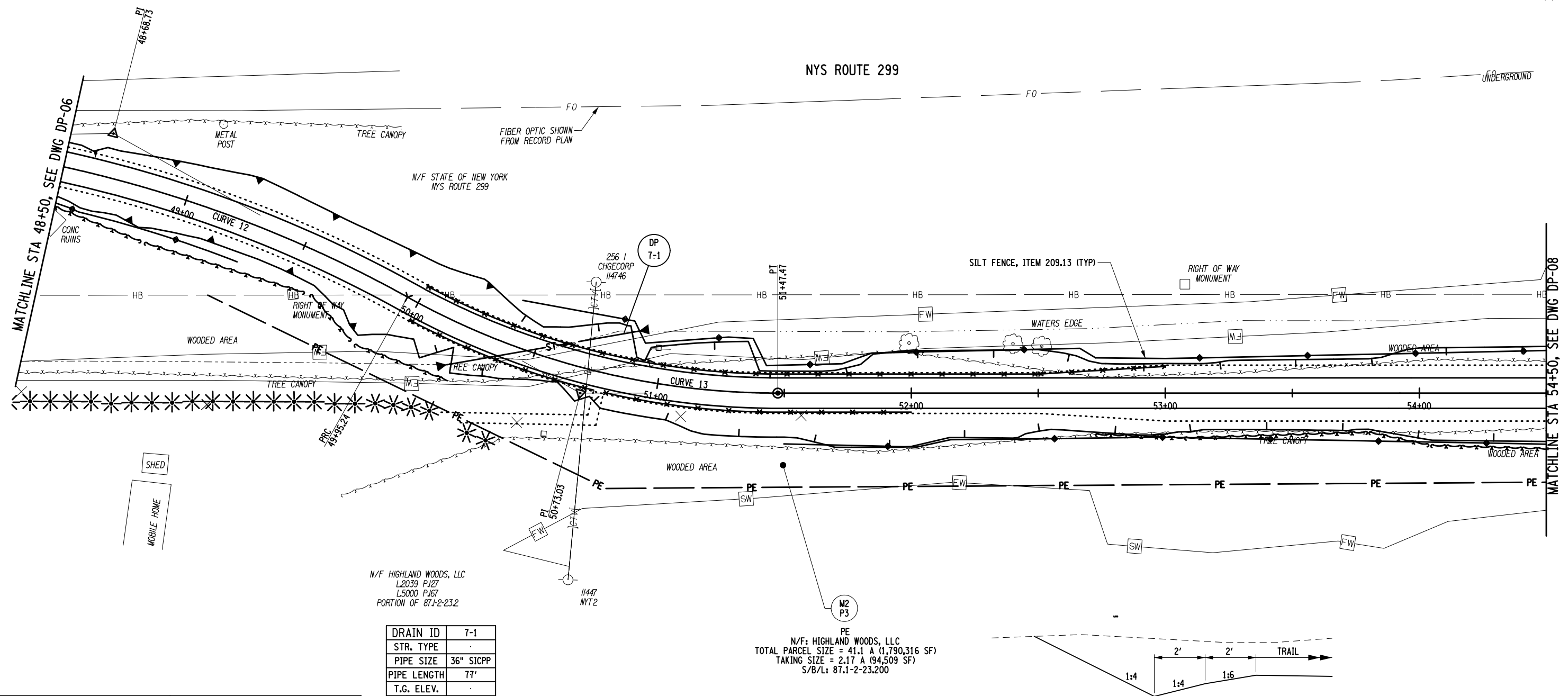


DRAIN ID		6-1	DRAIN ID		6-2
STR. TYPE		U	STR. TYPE		-
PIPE SIZE		18" SICPP	PIPE SIZE		24" CMP
PIPE LENGTH		32'	PIPE LENGTH		8'
T.G. ELEV.		356.38	T.G. ELEV.		-
PIPE INVERT ELEV.	N	353.22	PIPE INVERT ELEV.	N	351.84
	S	352.79		S	351.72
	-	-		-	-
	-	-		-	-

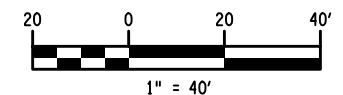


AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
					DRAINAGE & EROSION CONTROL PLAN	DRAWING NO. DP-06	
	COUNTY: ULSTER REGION: 8					SHEET NO. 65	
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<div><div>HVEAENGINEERS</div><div>BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com</div></div> <div><div>Ulster County</div><div>ulstercountyny.gov</div></div>							






DITCH INSTALLATION DETAIL
N.T.S.
STA. 48+50± TO STA. 50+50±



DRAIN ID		7-1
STR. TYPE		.
PIPE SIZE		36" SICPP
PIPE LENGTH		77'
T.G. ELEV.		.
PIPE INVERT ELEV'S.	W	349.40
	E	348.98
	.	.
	.	.
	.	.

PE
N/F: HIGHLAND WOODS, LLC
TOTAL PARCEL SIZE = 41.1 A (1,790,316 SF)
TAKING SIZE = 2.17 A (94,509 SF)
S/B/L: 87.1-2-23.00

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
					DRAINAGE & EROSION CONTROL PLAN	DRAWING NO.	DP-07
						SHEET NO.	66
	COUNTY: ULSTER					REGION: 8	
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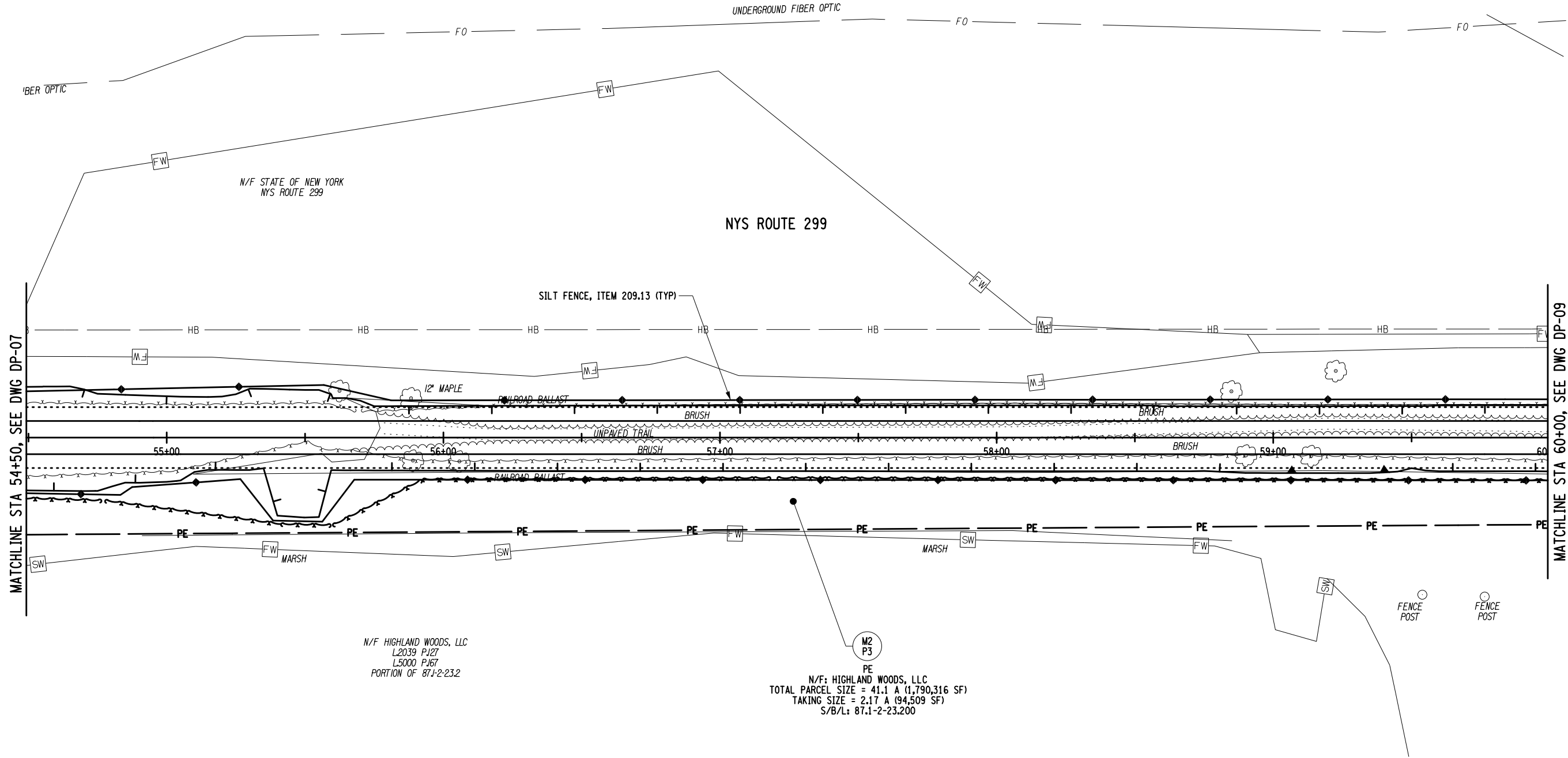
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DATE/TIME = 20-DEC-2017 09:58
USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH CHECK J. GORTON DRAFTING K. FISCHER CHECK L. BACH PROJECT MANAGER J. GORTON

AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER				
										DRAWING NO. DP-08
	COUNTY: ULSTER					REGION: 8				SHEET NO. 67

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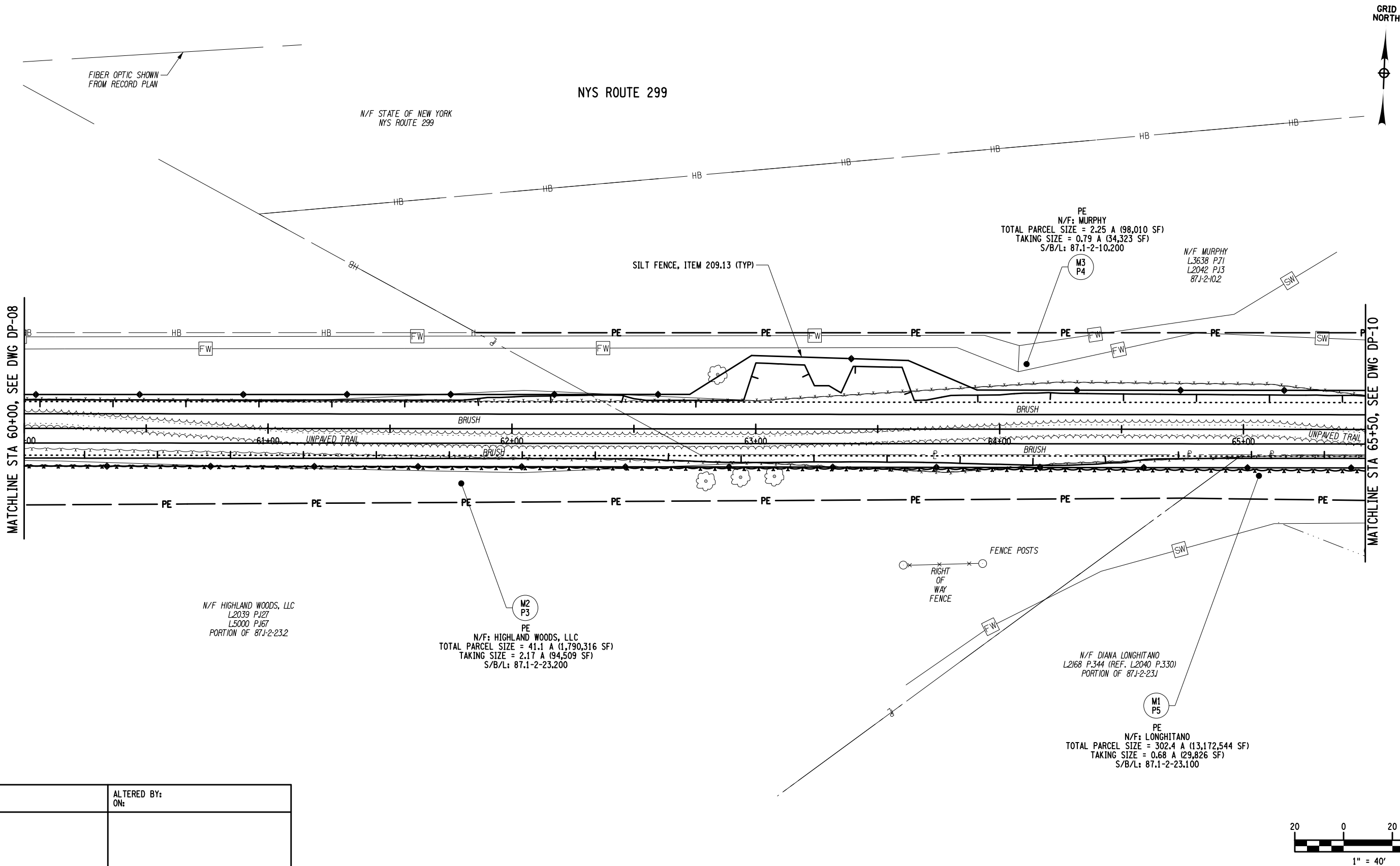
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FILE NAME = 876121.oph.drp.09.dgn
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DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH CHECK J. GORTON DRAFTING K. FISCHER CHECK L. BACH PROJECT MANAGER J. GORTON



AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED		CONTRACT NUMBER	
					DRAINAGE & EROSION CONTROL PLANS		DRAWING NO. DP-09 SHEET NO. 68	
	COUNTY: ULSTER	REGION: 8						
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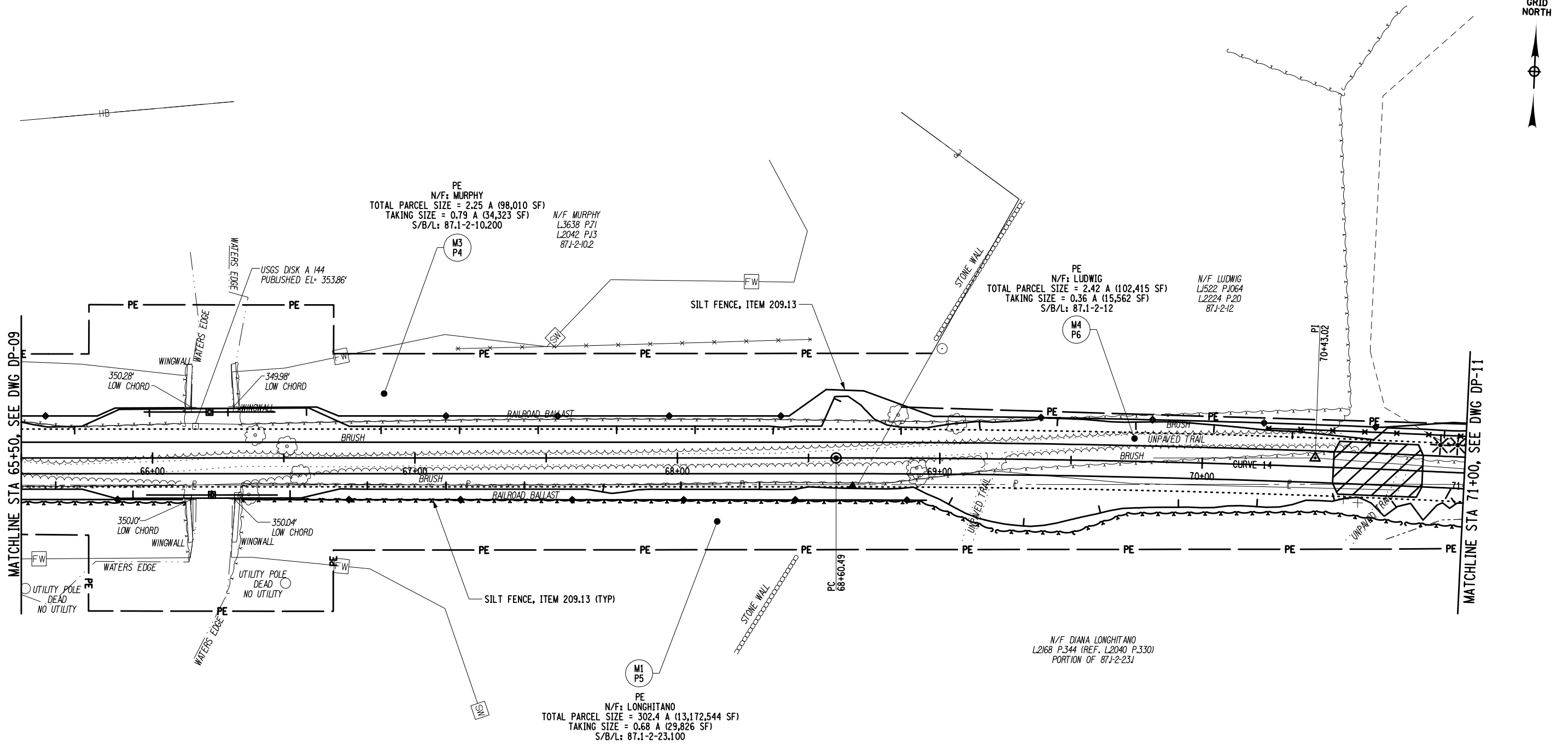
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USER = Catherine

DESIGN SUPERVISOR B. FITZGERALD
JOB MANAGER J. GORTON
DESIGN L. BACH
CHECK J. GORTON
DRAFTING K. FISCHER
CHECK L. BACH
PROJECT MANAGER J. GORTON


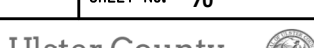
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	COUNTY: ULSTER					REGION: 8
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DRAINAGE & EROSION CONTROL PLAN	DRAWING NO. DP-10
	SHEET NO. 69
HVEA ENGINEERS	BEACON, NEW YORK 12508 (845) 638-3000 www.hvespc.com
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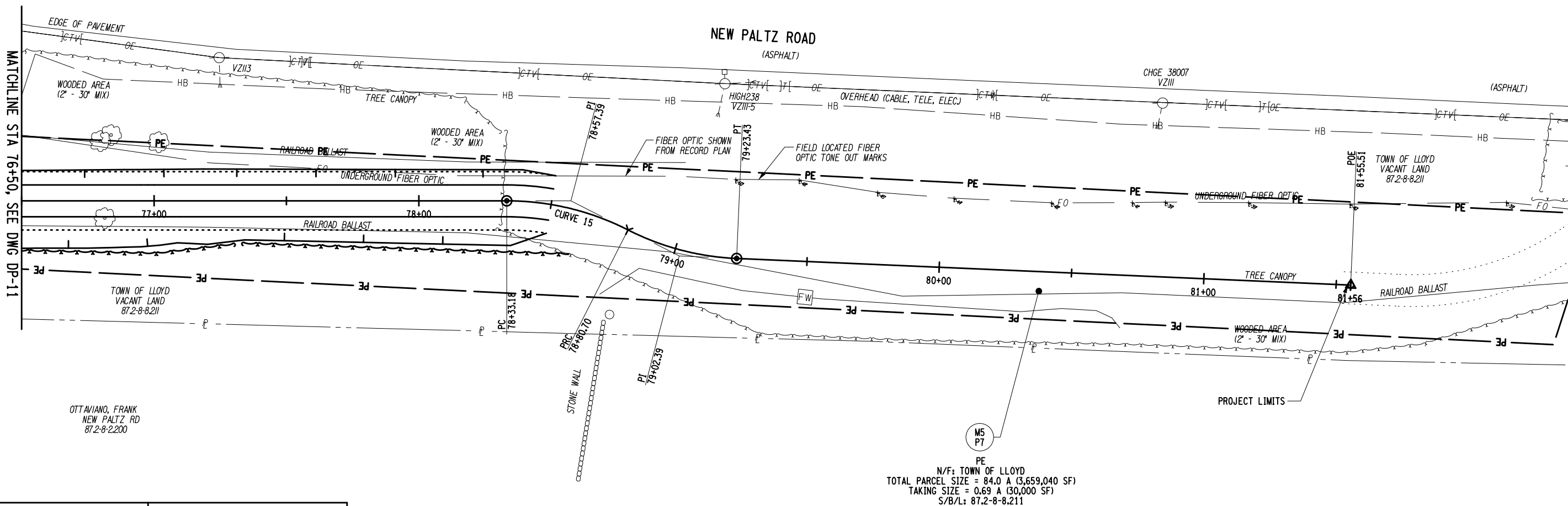







AFFIX SEAL: ON:		ALTERED BY: ON:		59/ NEW PALTZ RD 871-2-17															
		AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		HUDSON VALLEY RAIL TRAIL WEST - PHASE 4		PIN 8761.21		BRIDGES		CULVERTS		ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED		CONTRACT NUMBER					
												DRAINAGE & EROSION CONTROL PLAN		DRAWING NO. DP-11					
														SHEET NO. 70					
						COUNTY: ULSTER		REGION: 8											
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DESIGN SUPERVISOR B. FITZGERALD JOB MANAGER J. GORTON DESIGN L. BACH CHECK J. GORTON DRAFTING K. FISCHER CHECK L. BACH PROJECT MANAGER J. GORTON



AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUDSON VALLEY RAIL TRAIL WEST - PHASE 4	PIN 8761.21	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
					DRAINAGE & EROSION CONTROL PLAN	DRAWING NO. DP-12 SHEET NO. 71
	COUNTY: ULSTER REGION: 8					
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					<div><div>BEACON, NEW YORK 12508 (845) 638-3600 www.hveapc.com</div></div>	<div><div>Ulster County ulstercountyny.gov</div></div> 

PE6 Action: GreenLITES

6 Points

9 Points

12 Points

15 Points

A. Why is this action important?

It is important to improve the quality of New York State's transportation infrastructure in ways that minimize impacts to the environment, including the depletion of irreplaceable resources and the reduction of GHG emissions. To facilitate and recognize transportation project designs that incorporate a high level of environmental sustainability, NYSDOT implemented and uses GreenLITES (Green Leadership In Transportation and Environmental Sustainability), a transportation environmental sustainability rating program.

Other New York State government agencies and authorities, local municipalities, and non-governmental (NGOs) may use GreenLITES to certify their transportation projects. Using GreenLITES is voluntary and offers project Sponsors the opportunity to distinguish their transportation projects based on the extent to which they incorporate sustainable design choices. By participating in this program, sponsors demonstrate the following:

1. They are committed to improving the quality of transportation infrastructure in ways that minimize impacts to the environment, and
2. They have taken intentional steps to show the public they are advancing sustainable practices.

B. How to implement this action

This action can be implemented by utilizing NYSDOT's GreenLITES voluntary self-certification program for a local transportation infrastructure project. The local government must use GreenLITES Project Environmental Sustainability Rating System Scorecard and submit it to NYSDOT for review before receiving an official certificate. Certification levels include Certified, Silver, Gold, and Evergreen; each varying based on the number of sustainability practices incorporated into the project and the level of impact the project will have in the areas of sustainable sites, water quality, materials and resources, energy and atmosphere and innovation.

C. Time frame, project costs, and resource needs

The time frame, costs, and resource needs vary depending on the project size and certification level sought.

D. Which local governments implement this action? Which departments within the local government are most likely to have responsibility for this?

Any local government (city, town, village, county) can implement this action. Typically, the departments of transportation, planning, or public works would oversee this action.

E. How to obtain points for this action

Points are obtained for this action by receiving a GreenLITES certification from NYSDOT.

POSSIBLE POINTS

Certified

6

Silver	9
Gold	12
Evergreen	15

F. What to submit

The local government must provide the certificate obtained from NYSDOT.

G. Links to additional resources or best practices

- [NYSDOT GreenLITES](#)

H. Recertification requirements

The recertification requirements are the same as the initial certification requirements.