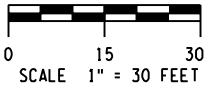


Attachment C –SWPPP

Part 5 of 6

FILE NAME = L:\MSTN Projects\0300\369,007 - Ashoken Rail Trail\MSTN\PS&E Plans\217_369007001 ESCP_080.dgn
DATE = 2/16/2018
TIME = 4:28:16 PM
cmh
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_LJ5000.B.04_006.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :
DRAFT
NOT FOR CONSTRUCTION

PLAN NOTES:

1. REMOVE EXISTING WOODY DEBRIS FROM EXISTING SWALES. EXCAVATION OR FILL PLACEMENT SHALL NOT EXTEND PAST SLOPE LIMITS DISPLAYED ON RESPECTIVE ESCP DRAWINGS UNLESS NECESSARY TO PROMOTE DRAINAGE FLOW IN DIRECTION SHOWN. EXCAVATION IN DRAINAGE SWALES SHALL BE LIMITED TO SPOT LOCATIONS AND SHALL BE AS MINIMAL AS POSSIBLE TO RESTORE POSITIVE DRAINAGE FLOW WITHIN THE SWALE.

EROSION AND SEDIMENT CONTROL PLAN - STA. A 563+00 TO STA. A 570+00

SURVEY AND MAPPING PROVIDED BY:



EROSION AND
SEDIMENT
CONTROL
PLAN-80

SCALE: 1"=30
DATE ISSUED: 2/2018
DRAWING
ESCP-80

ASHOKAN RAIL TRAIL
ULSTER COUNTY

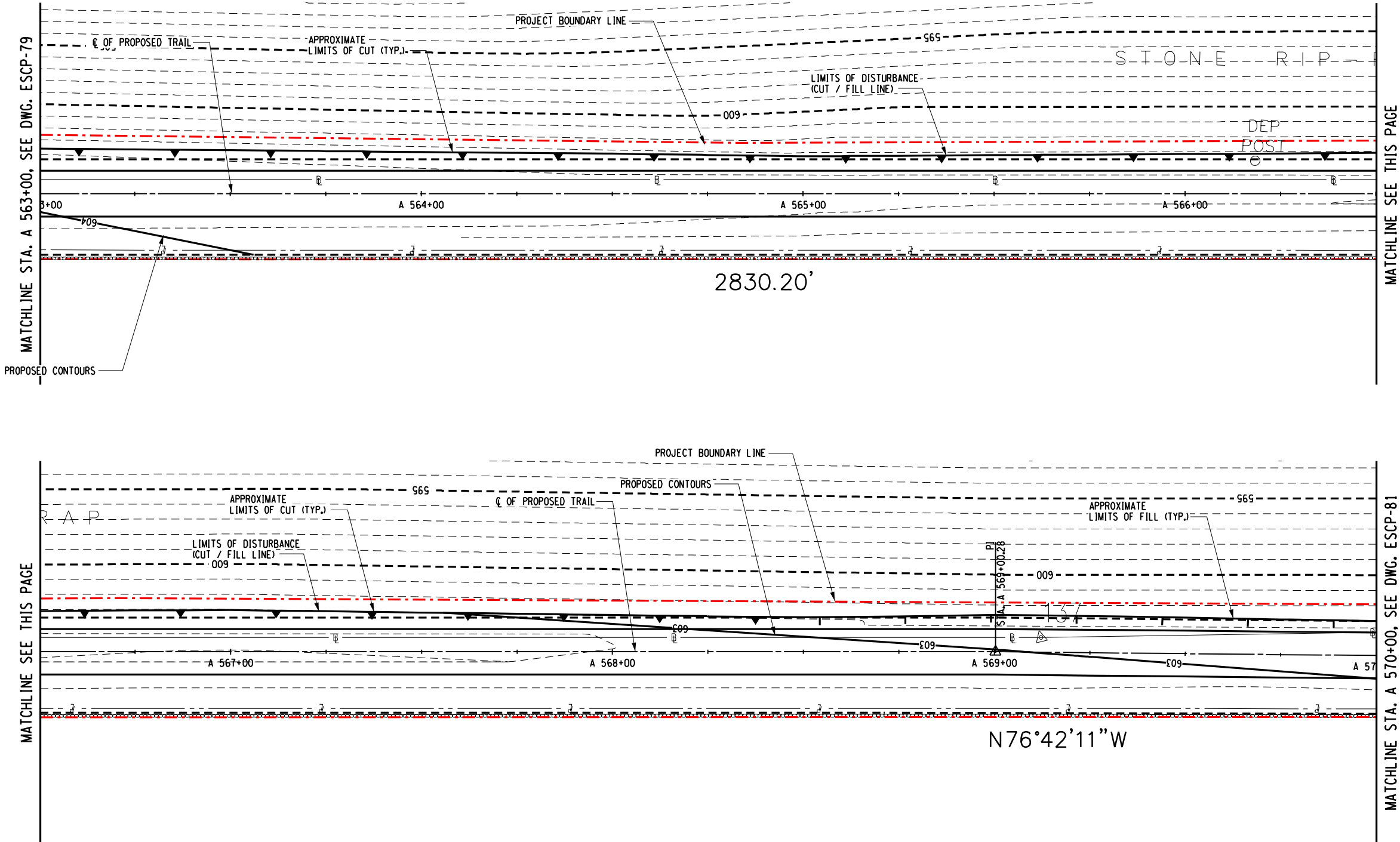


UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209



NO. DATE BY REVISION

XX



FILE NAME = L:\MSTN Projects\0300\369,007 - Ashoken Rail Trail\MSTN\PS&E Plans\218.369007001 ESCP_081.dgn
DATE = 2/16/2018
TIME = 4:28:21 PM

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

DRAFT
NOT FOR CONSTRUCTION

PLAN NOTES:

1. REMOVE EXISTING WOODY DEBRIS FROM EXISTING SWALES. EXCAVATION OR FILL PLACEMENT SHALL NOT EXTEND PAST SLOPE LIMITS DISPLAYED ON RESPECTIVE ESCP DRAWINGS UNLESS NECESSARY TO PROMOTE DRAINAGE FLOW IN DIRECTION SHOWN. EXCAVATION IN DRAINAGE SWALES SHALL BE LIMITED TO SPOT LOCATIONS AND SHALL BE AS MINIMAL AS POSSIBLE TO RESTORE POSITIVE DRAINAGE FLOW WITHIN THE SWALE.

EROSION AND SEDIMENT CONTROL PLAN - STA. A 570+00 TO STA. A 577+00

SURVEY AND MAPPING PROVIDED BY:



EROSION AND
SEDIMENT
CONTROL
PLAN-81

SCALE: 1" = 30'
DATE ISSUED: 2/2018
DRAWING
ESCP-81

ASHOKAN RAIL TRAIL
ULSTER COUNTY



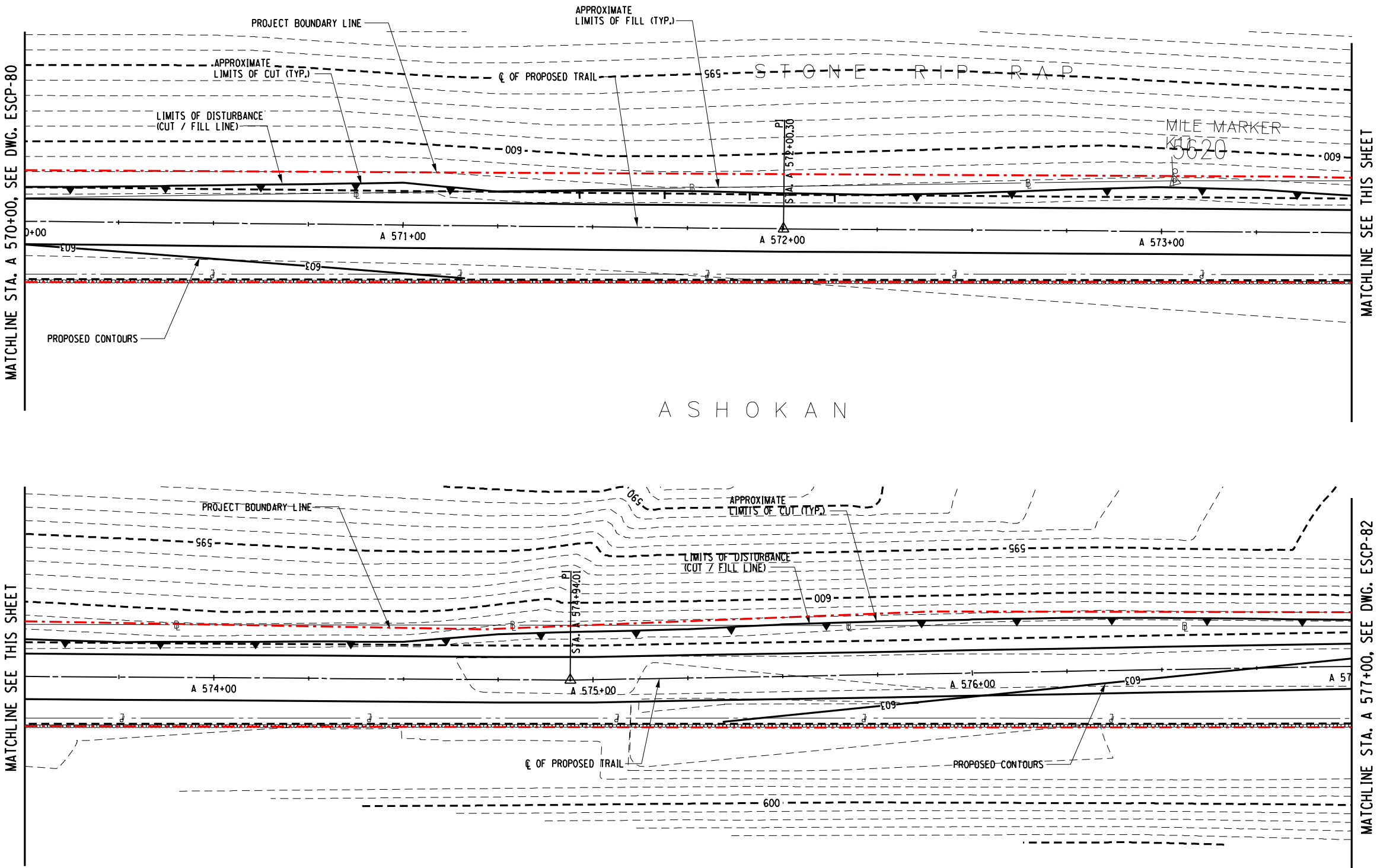
UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

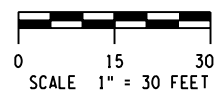


NO. DATE BY REVISION

XX

cmh
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_LJ5000.B.04.00.plt





PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

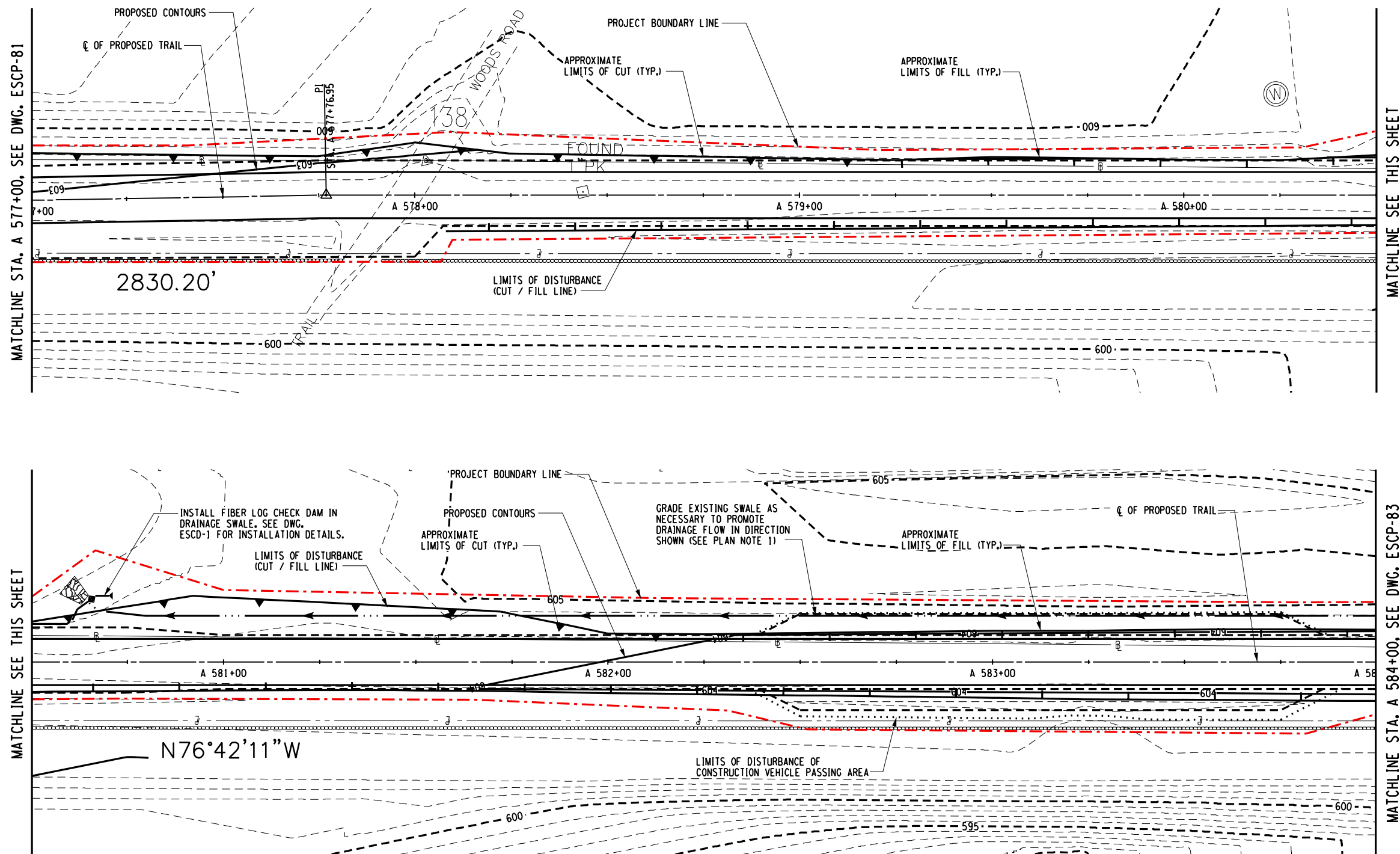
DRAFT
NOT FOR CONSTRUCTION

PLAN NOTES:

1. REMOVE EXISTING WOODY DEBRIS FROM EXISTING SWALES. EXCAVATION OR FILL PLACEMENT SHALL NOT EXTEND PAST SLOPE LIMITS DISPLAYED ON RESPECTIVE ESC DRAWINGS UNLESS NECESSARY TO PROMOTE DRAINAGE FLOW IN DIRECTION SHOWN. EXCAVATION IN DRAINAGE SWALES SHALL BE LIMITED TO SPOT LOCATIONS AND SHALL BE AS MINIMAL AS POSSIBLE TO RESTORE POSITIVE DRAINAGE FLOW WITHIN THE SWALE.

EROSION AND SEDIMENT CONTROL PLAN - STA. A 577+00 TO STA. A 584+00

SURVEY AND MAPPING PROVIDED BY:

[illegible]Baron
oguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW, ARTICLE 145, SECTION 7209

ASHOKAN RAIL TRAIL

EROSION AND
SEDIMENT
CONTROL
PLAN-82

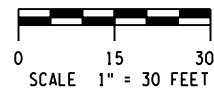
SCALE: 1 : 30
DATE ISSUED: 2/2018
DRAWING
ESCP-82

xx

FILE NAME = L:\MSTN Projects\0300\369,007 - Ashoken Rail Trail\MSTN\PS&E Plans\220-369007001 ESCP_083.dgn
DATE = 2/16/2018
TIME = 4:28:29 PM

cmh
L:\MicroStation\workspace\Plot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl
L:\MicroStation\workspace\Plot\NYSDOT\NYSDOT_LJ5000.B.04.00.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



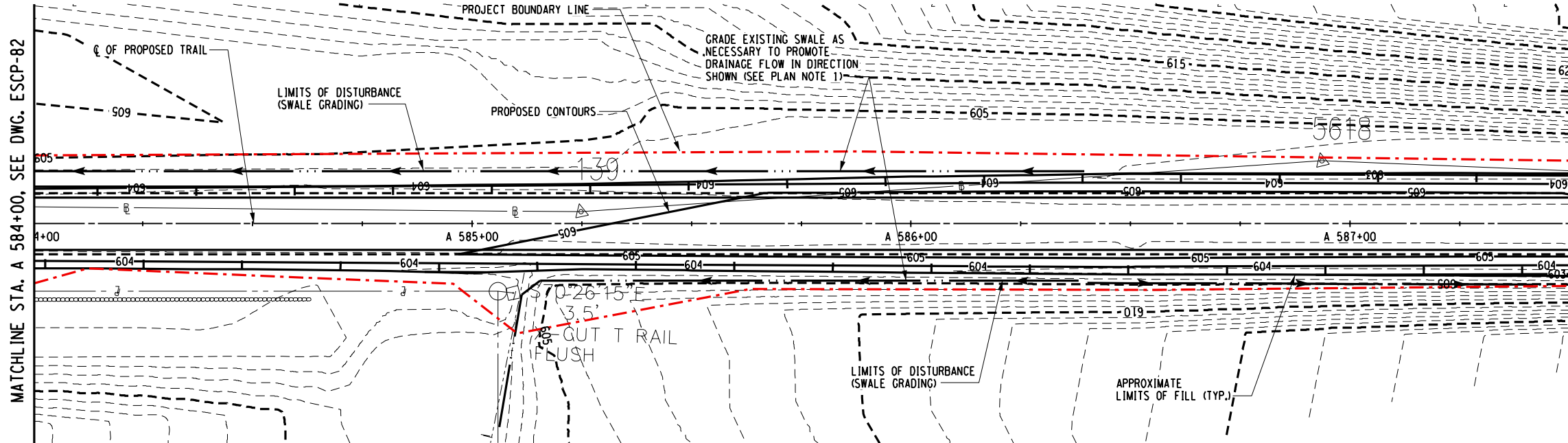
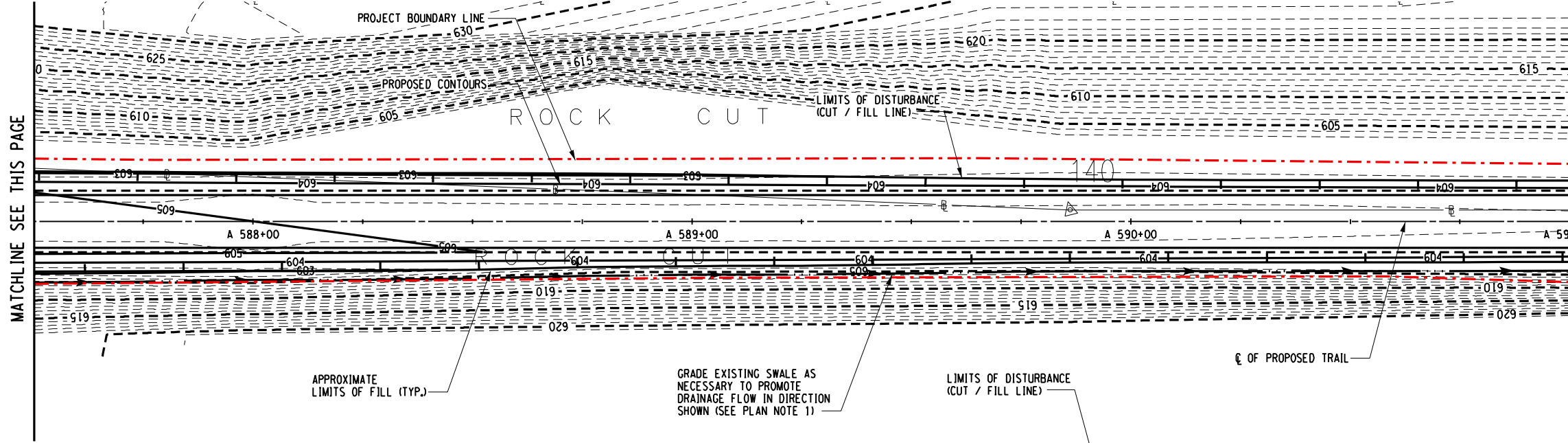
PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

DRAFT
NOT FOR CONSTRUCTION

PLAN NOTES:

1. REMOVE EXISTING WOODY DEBRIS FROM EXISTING SWALES. EXCAVATION OR FILL PLACEMENT SHALL NOT EXTEND PAST SLOPE LIMITS DISPLAYED ON RESPECTIVE ESCP DRAWINGS UNLESS NECESSARY TO PROMOTE DRAINAGE FLOW IN DIRECTION SHOWN. EXCAVATION IN DRAINAGE SWALES SHALL BE LIMITED TO SPOT LOCATIONS AND SHALL BE AS MINIMAL AS POSSIBLE TO RESTORE POSITIVE DRAINAGE FLOW WITHIN THE SWALE.

EROSION AND SEDIMENT CONTROL PLAN - STA. A 584+00 TO STA. A 591+00



SURVEY AND MAPPING PROVIDED BY:



ASHOKAN RAIL TRAIL		ULSTER COUNTY		EROSION AND SEDIMENT CONTROL PLAN-83	
Barton & Loguidice, D.P.C.		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209		SCALE: 1" = 30'	
NO. DATE BY REVISION		DATE ISSUED: 2/2018		DRAWING ESCP-83	
XX					

FILE NAME = L:\MSTN Projects\0300\369,007 - Ashoken Rail Trail\MSTN\PS&E Plans\221.369007001 ESCP_084.dgn
DATE = 2/16/2018
TIME = 4:28:34 PM

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____

CHECKED BY _____

DRAFTED BY _____

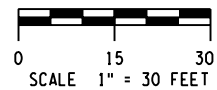
CHECKED BY _____

DESIGNED BY _____

IN CHARGE OF _____

DRAFT
NOT FOR CONSTRUCTION

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :



PLAN NOTES:

1. REMOVE EXISTING WOODY DEBRIS FROM EXISTING SWALES. EXCAVATION OR FILL PLACEMENT SHALL NOT EXTEND PAST SLOPE LIMITS DISPLAYED ON RESPECTIVE ESCP DRAWINGS UNLESS NECESSARY TO PROMOTE DRAINAGE FLOW IN DIRECTION SHOWN. EXCAVATION IN DRAINAGE SWALES SHALL BE LIMITED TO SPOT LOCATIONS AND SHALL BE AS MINIMAL AS POSSIBLE TO RESTORE POSITIVE DRAINAGE FLOW WITHIN THE SWALE.

EROSION AND SEDIMENT CONTROL PLAN - STA. A 591+00 TO STA. A 598+00

SURVEY AND MAPPING PROVIDED BY:



EROSION AND
SEDIMENT
CONTROL
PLAN-84

SCALE: 1" = 30'
DATE ISSUED: 2/2018
DRAWING
ESCP-84

ASHOKAN RAIL TRAIL
ULSTER COUNTY



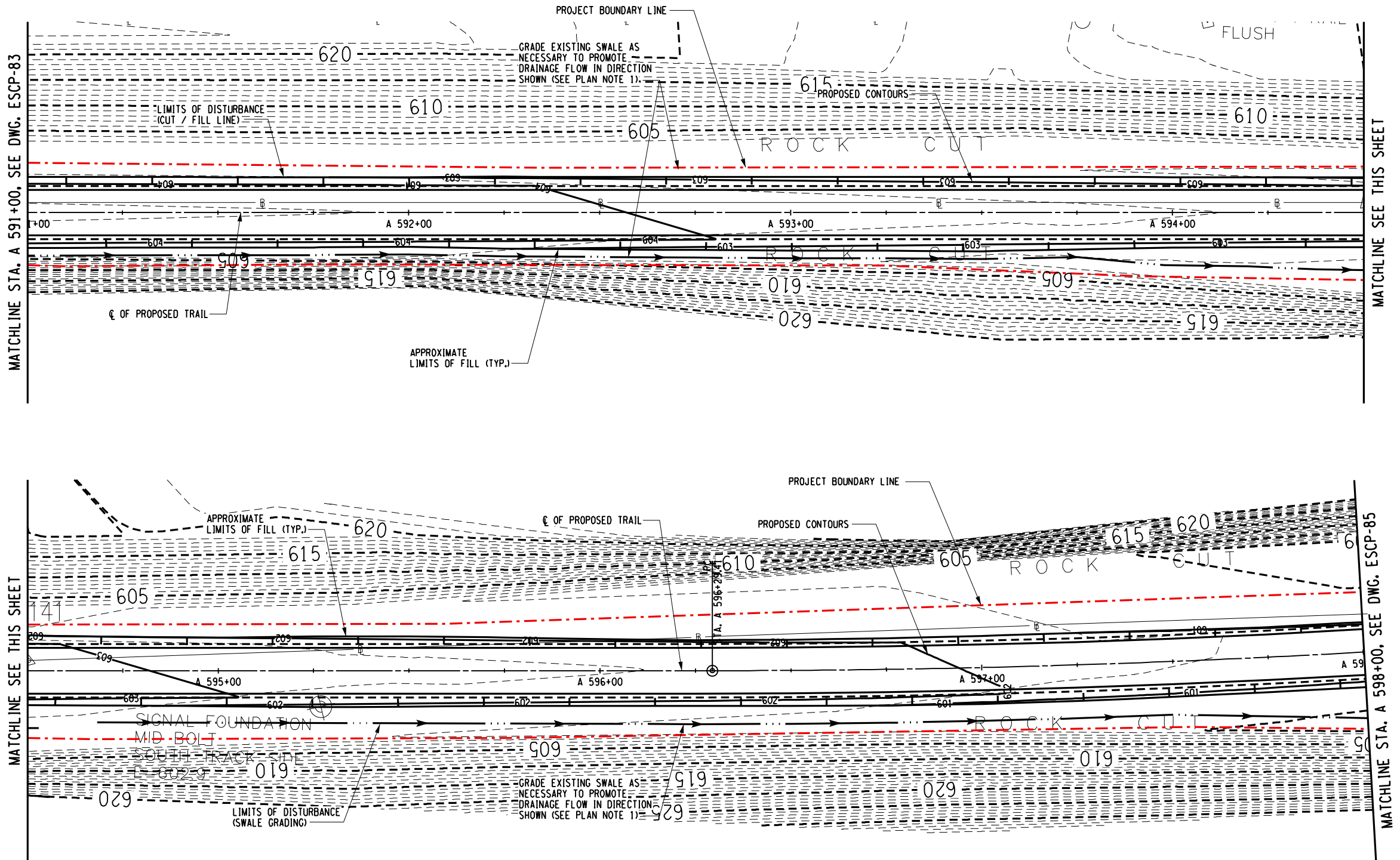
UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

NO. DATE BY REVISION

NO.	DATE	BY	REVISION

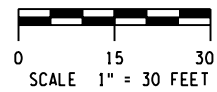


XX



FILE NAME = L:\MSTN Projects\0300\369,007 - Ashokan Rail Trail\MSTN\PS&E Plans\222.369007001 ESCP_085.dgn
DATE = 2/16/2018
TIME = 4:28:40 PM
cmh
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_LJ5000.B.04_06.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

DRAFT
NOT FOR CONSTRUCTION

PLAN NOTES:

1. REMOVE EXISTING WOODY DEBRIS FROM EXISTING SWALES. EXCAVATION OR FILL PLACEMENT SHALL NOT EXTEND PAST SLOPE LIMITS DISPLAYED ON RESPECTIVE ESCP DRAWINGS UNLESS NECESSARY TO PROMOTE DRAINAGE FLOW IN DIRECTION SHOWN. EXCAVATION IN DRAINAGE SWALES SHALL BE LIMITED TO SPOT LOCATIONS AND SHALL BE AS MINIMAL AS POSSIBLE TO RESTORE POSITIVE DRAINAGE FLOW WITHIN THE SWALE.

EROSION AND SEDIMENT CONTROL PLAN - STA. A 598+00 TO STA. A 605+00

SURVEY AND MAPPING PROVIDED BY:



EROSION AND
SEDIMENT
CONTROL
PLAN-85

SCALE: 1" = 30'

DATE ISSUED: 2/2018

DRAWING

ESCP-85

ASHOKAN RAIL TRAIL
ULSTER COUNTY

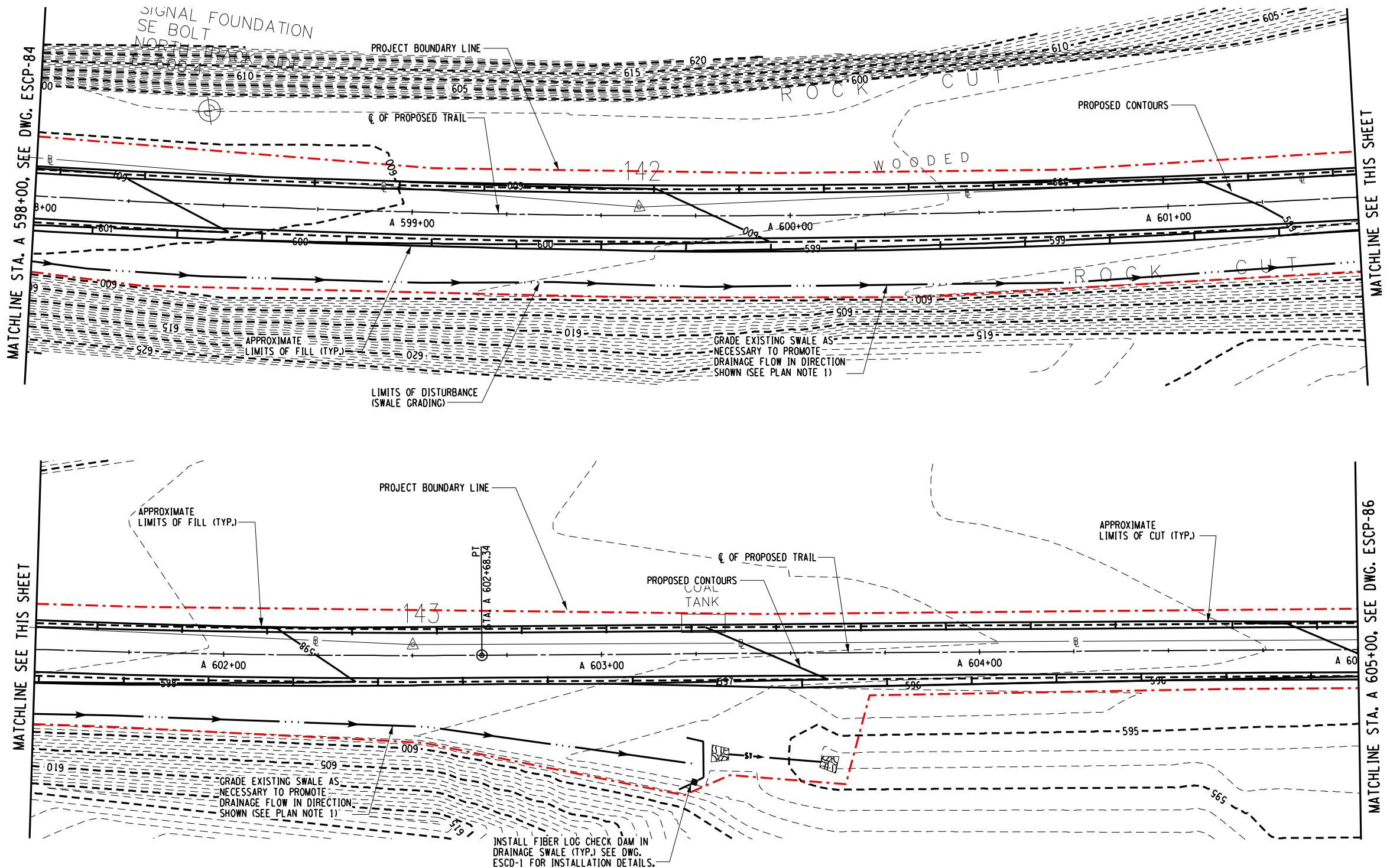


UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209



NO. DATE BY REVISION

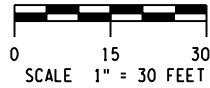
XX



FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\223.369007001 ESCP_086.dgn
DATE = 2/16/2018
TIME = 4:28:44 PM

cmh
L:\MicroStationWorkspace\Plot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl
L:\MicroStationWorkspace\Plot\NYSDOT\NYSDOT_LJ5000.B.04.006.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

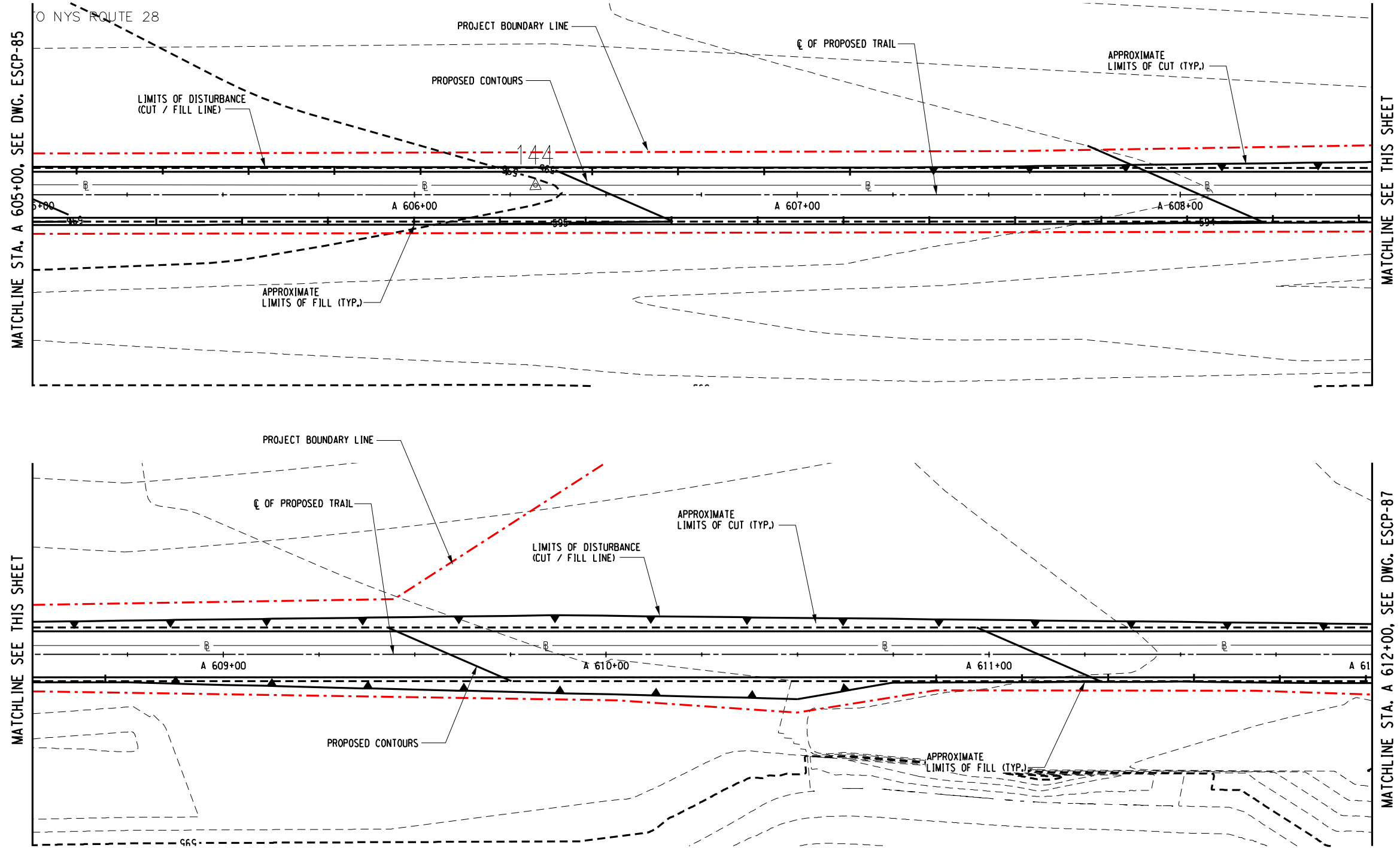
DRAFT
NOT FOR CONSTRUCTION

PLAN NOTES:

1. REMOVE EXISTING WOODY DEBRIS FROM EXISTING SWALES. EXCAVATION OR FILL PLACEMENT SHALL NOT EXTEND PAST SLOPE LIMITS DISPLAYED ON RESPECTIVE ESCP DRAWINGS UNLESS NECESSARY TO PROMOTE DRAINAGE FLOW IN DIRECTION SHOWN. EXCAVATION IN DRAINAGE SWALES SHALL BE LIMITED TO SPOT LOCATIONS AND SHALL BE AS MINIMAL AS POSSIBLE TO RESTORE POSITIVE DRAINAGE FLOW WITHIN THE SWALE.

EROSION AND SEDIMENT CONTROL PLAN - STA. A 605+00 TO STA. A 612+00

SURVEY AND MAPPING PROVIDED BY:



XX	
NO. DATE BY REVISION	
Barton & Loguidice, D.P.C.	
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209	
ASHOKAN RAIL TRAIL	ULSTER COUNTY
EROSION AND SEDIMENT CONTROL PLAN-86	
SCALE: 1" = 30'	
DATE ISSUED: 2/2018	
DRAWING ESCP-86	

L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl

L:\MSTN\Projects\03000\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\224_36900\7001 ESCP_087.dgn
DATE = 2/16/2018
TIME = 4:28:48 PM

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

0 15 30
SCALE 1" = 30 FEET

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON:

DRAFT
NOT FOR CONSTRUCTION

PLAN NOTES:

1. REMOVE EXISTING WOODY DEBRIS FROM EXISTING SWALES. EXCAVATION OR FILL PLACEMENT SHALL NOT EXTEND PAST SLOPE LIMITS DISPLAYED ON RESPECTIVE ESCP DRAWINGS UNLESS NECESSARY TO PROMOTE DRAINAGE FLOW IN DIRECTION SHOWN. EXCAVATION IN DRAINAGE SWALES SHALL BE LIMITED TO SPOT LOCATIONS AND SHALL BE AS MINIMAL AS POSSIBLE TO RESTORE POSITIVE DRAINAGE FLOW WITHIN THE SWALE.

EROSION AND SEDIMENT CONTROL PLAN - STA. A 612+00 TO STA. A 619+00

SURVEY AND MAPPING PROVIDED BY:

BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

SCALE: 1" = 30
DATE ISSUED: 2/2018
DRAWING
ESCP-87

EROSION AND
SEDIMENT
CONTROL
PLAN-87

ASHOKAN RAIL TRAIL
ULSTER COUNTY

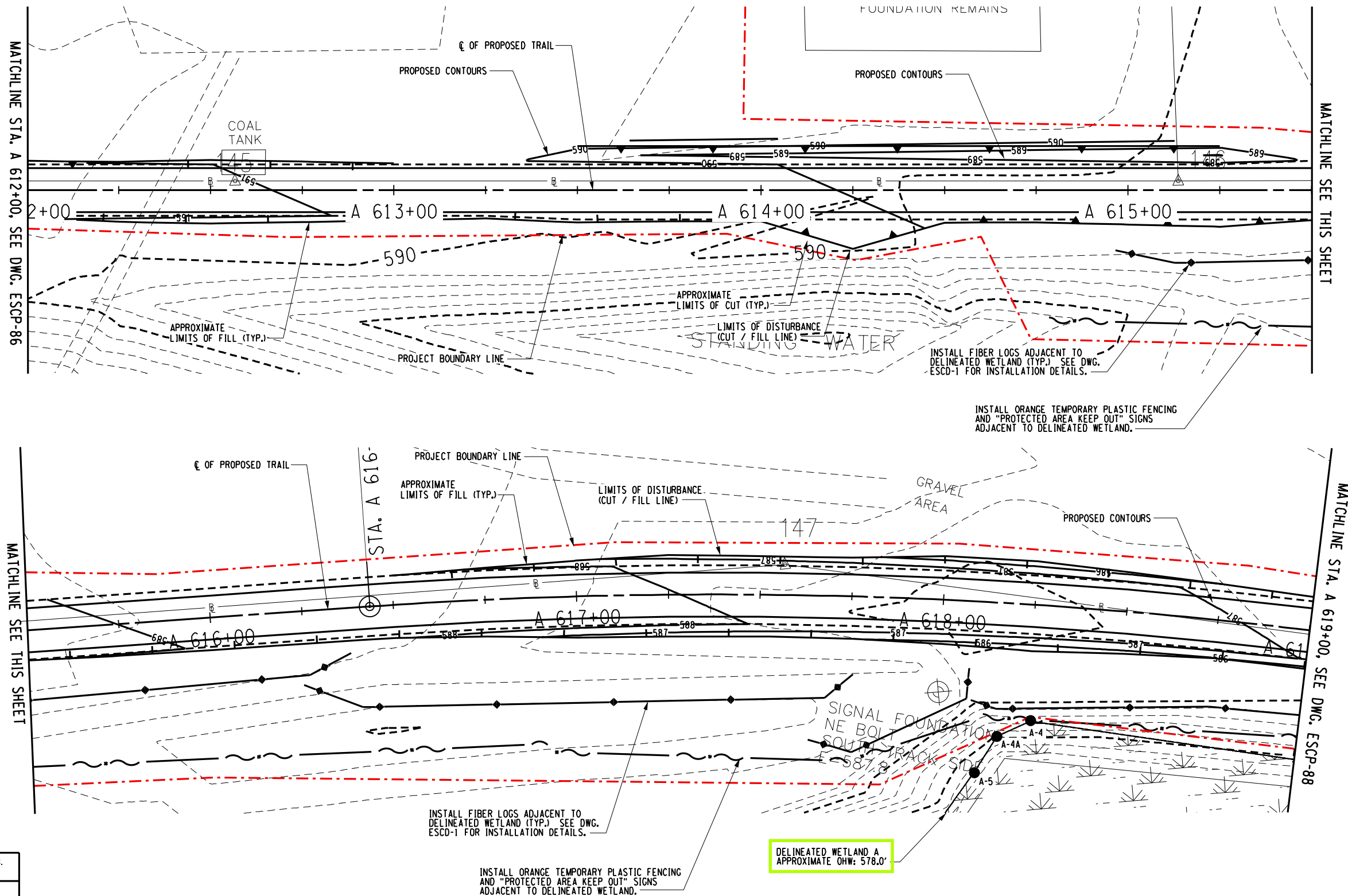
Barton
Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209



NO.	DATE	BY	REVISION

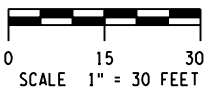
XX



FILE NAME = L:\MSTN Projects\0300\369,007 - Ashokan Rail Trail\MSTN\PS&E Plans\225-369007001 ESCP-088.dgn
DATE = 2/16/2018
TIME = 4:28:55 PM

cmh
L:\MicroStation\workspace\Plot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl
L:\MicroStation\workspace\Plot\NYSDOT\NYSDOT_LJ5000.B.04_00.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :
**DRAFT
NOT FOR CONSTRUCTION**

- PLAN NOTES:
1. REMOVE EXISTING WOODY DEBRIS FROM EXISTING SWALES. EXCAVATION OR FILL PLACEMENT SHALL NOT EXTEND PAST SLOPE LIMITS DISPLAYED ON RESPECTIVE ESCP DRAWINGS UNLESS NECESSARY TO PROMOTE DRAINAGE FLOW IN DIRECTION SHOWN. EXCAVATION IN DRAINAGE SWALES SHALL BE LIMITED TO SPOT LOCATIONS AND SHALL BE AS MINIMAL AS POSSIBLE TO RESTORE POSITIVE DRAINAGE FLOW WITHIN THE SWALE.

EROSION AND SEDIMENT CONTROL PLAN - STA. A 619+00 TO STA. A 625+02

SURVEY AND MAPPING PROVIDED BY:
BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

ASHOKAN RAIL TRAIL	ULSTER COUNTY	EROSION AND SEDIMENT CONTROL PLAN-88	SCALE: 1" = 30
			DATE ISSUED: 2/2018
			DRAWING ESCP-88

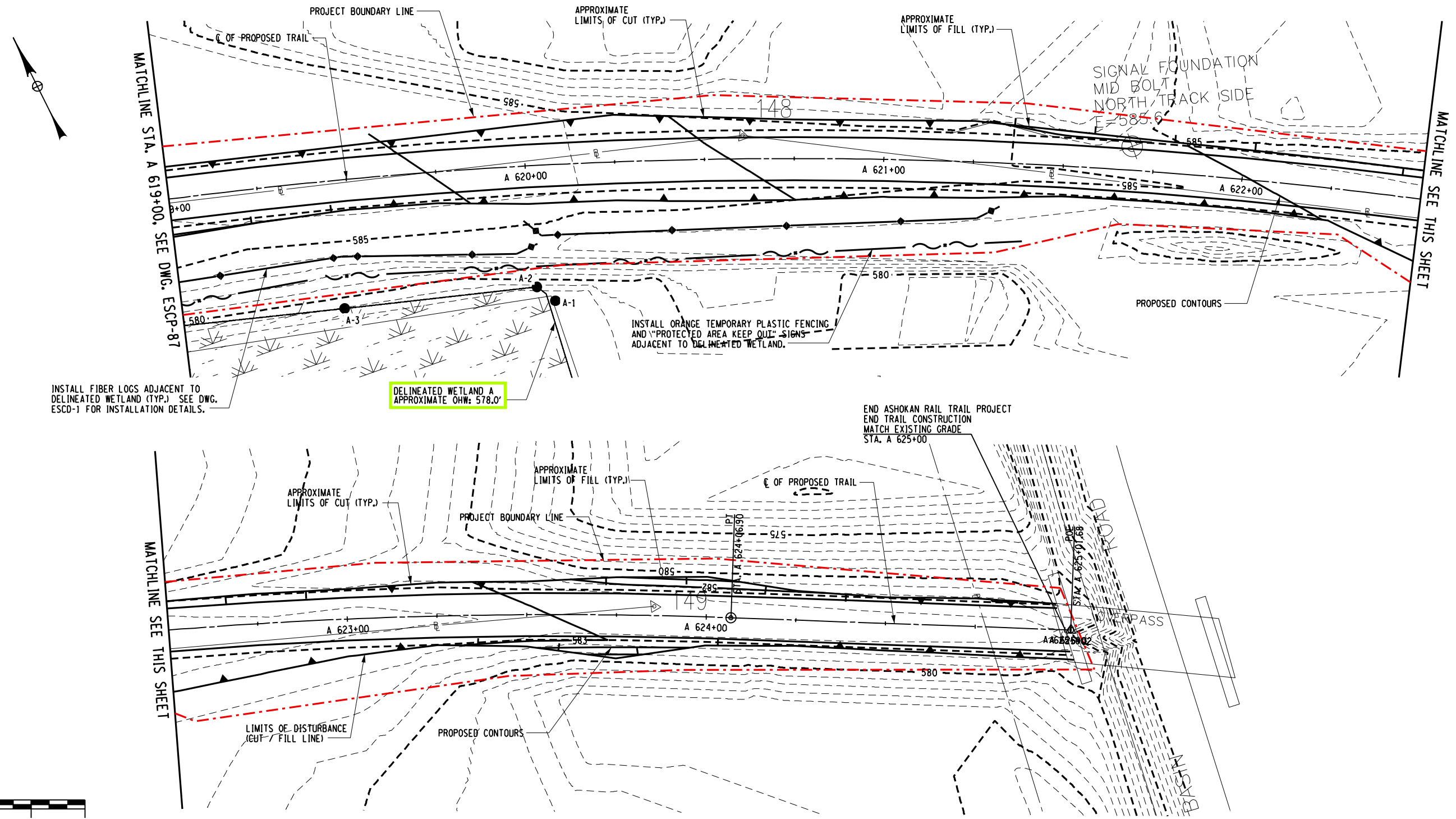


UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209



NO.	DATE	BY	REVISION

XX



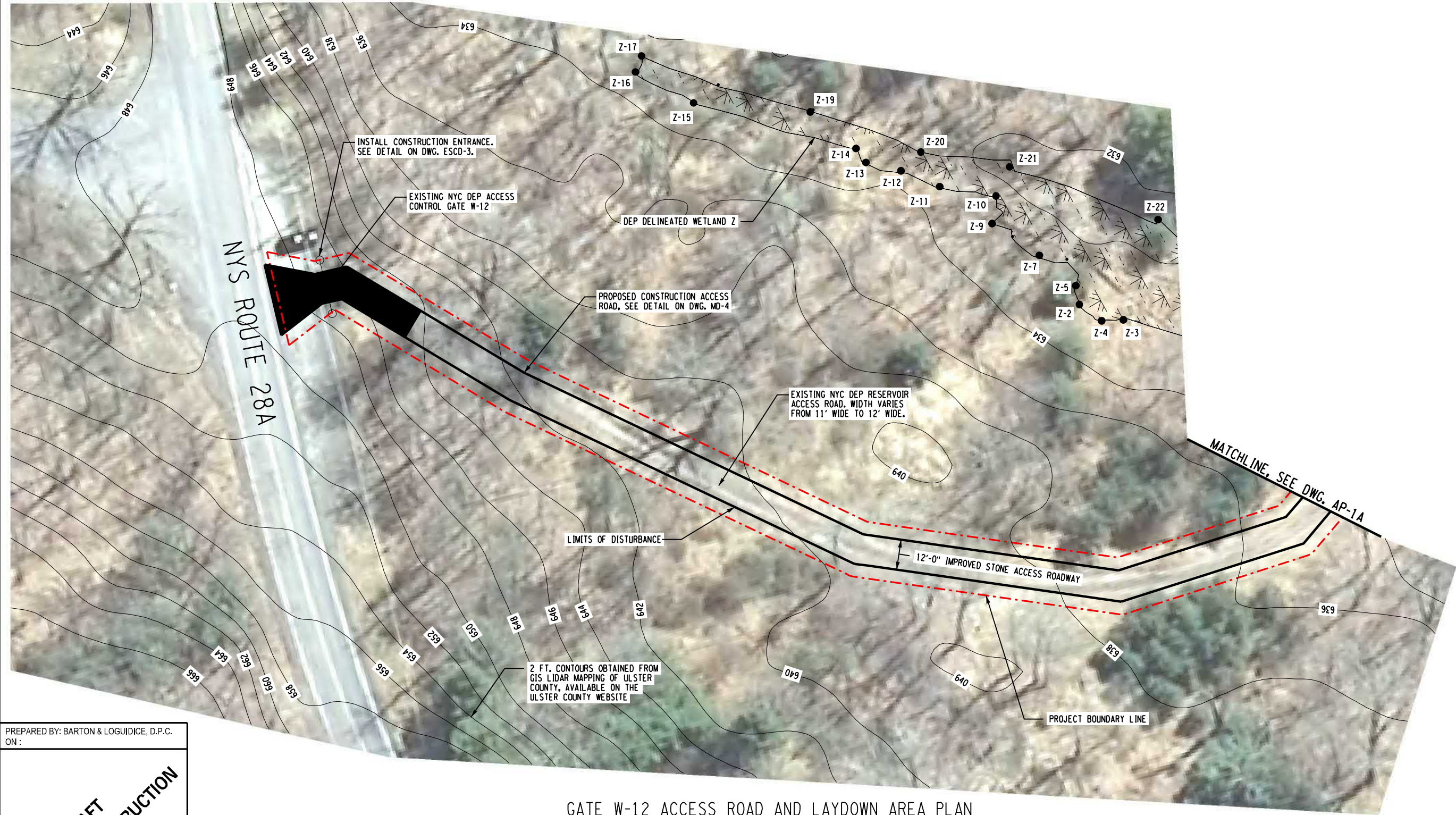
FILE NAME = L:\MSTN Projects\0300\369.007 - Ashokan Rail Trail\MSTN\PS&E Plans\250.369007 Access Rd.001B.dgn
DATE = 2/16/2018
TIME = 4:29:43 PM

cmh

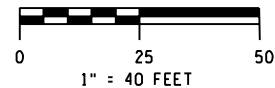
L:\MicroStation\workspace\Plot\NYSOOT\NYSOOT_SIZE_B - HPM712.tbl
L:\MicroStation\workspace\Plot\NYSOOT\NYSOOT_LJ5000.B.04.006.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :
DRAFT
NOT FOR CONSTRUCTION





GATE W-12 ACCESS ROAD AND LAYDOWN AREA PLAN



SURVEY AND MAPPING PROVIDED BY:

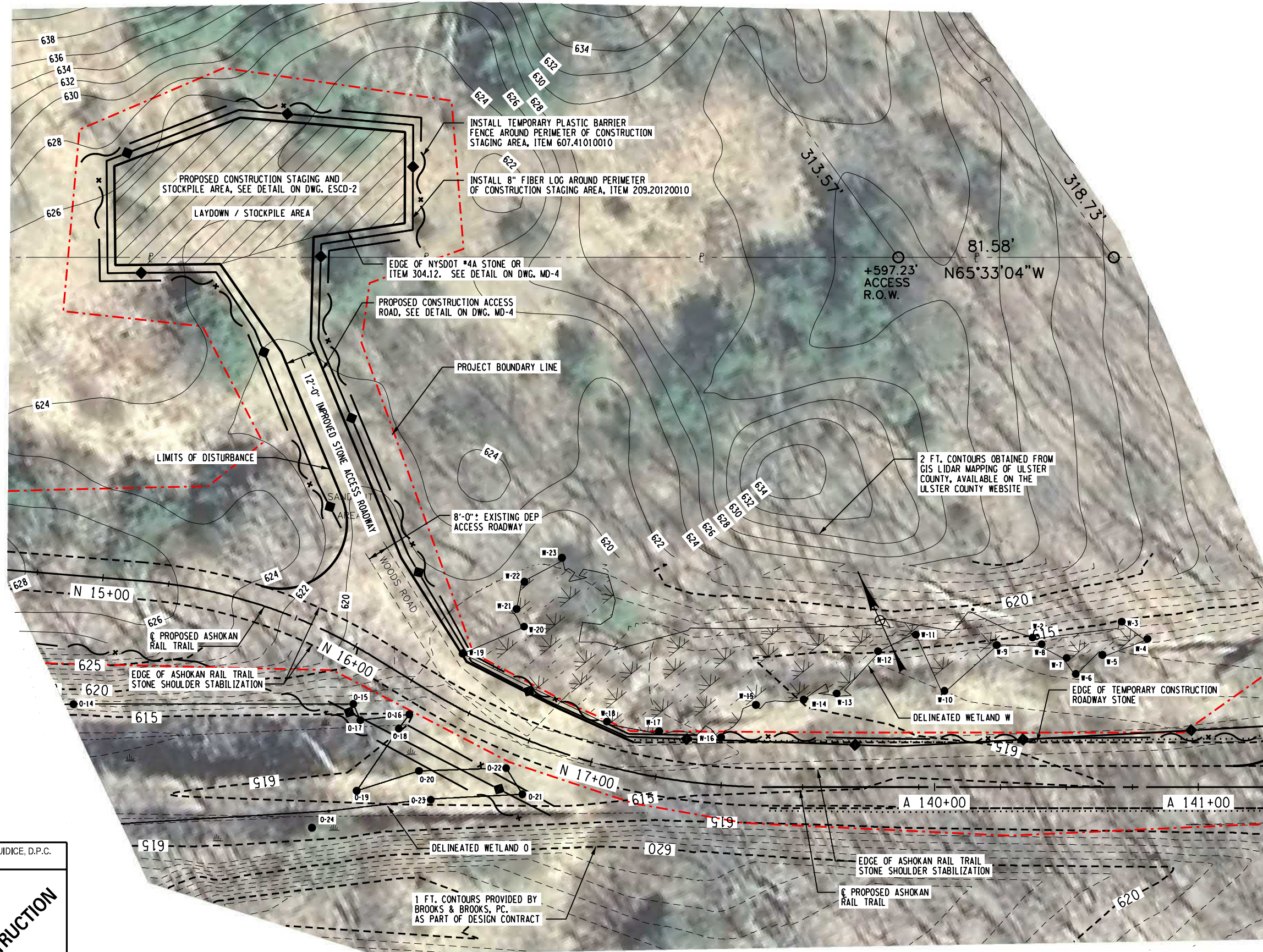
BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

XX			
NO.	DATE	BY	REVISION
			
			
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209			
ASHOKAN RAIL TRAIL		ULSTER COUNTY	
ACCESS ROAD PLAN - 1B			
SCALE: 1:40			
DATE ISSUED: 2/2018			
DRAWING AP-1B			

cmh
L:\MicroStation\Workspace\P\ot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl
L:\MicroStation\Workspace\P\ot\NYSDOT\NYSDOT_LJ5000_B_04_08.plt

FILE NAME = L:\MSTN Projects\0300\369,007 - Ashokan Rail\T-rail\MSTN\PS&E Plans\250_369007 Access Rd_002A.dgn
DATE = 2/16/2018
TIME = 4:29:49 PM

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____
DRAFTED BY _____ CHECKED BY _____




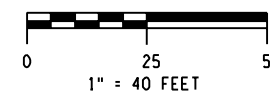
MATCHLINE. SEE DWG. AP-2B

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

DRAFT
NOT FOR CONSTRUCTION

GATE W-7 ACCESS ROAD AND LAYDOWN AREA PLAN

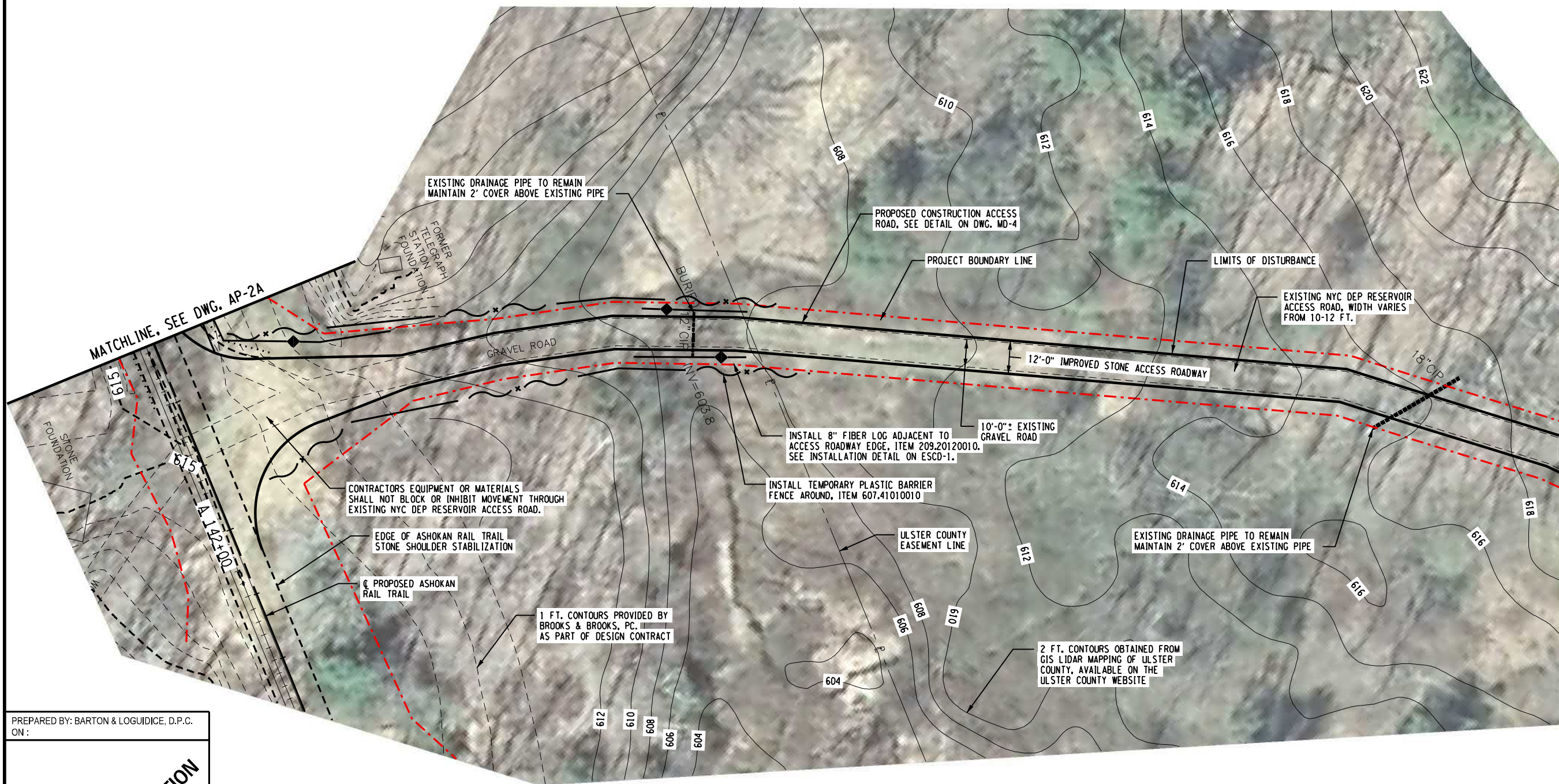
 MATERIAL STORAGE, LAYDOWN, OR STOCKPILING IN SHADED AREAS ONLY. STONE AND GEOTEXTILE FABRIC SHALL BE REMOVED IN THESE AREAS POST CONSTRUCTION OF TRAIL TO EXPOSE UNDERLYING SOILS BELOW GEOTEXTILE FABRIC.



SURVEY AND MAPPING PROVIDED BY:

BROOKS & BROOKS, PC
SURVEYING, PLANNING, GE

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____
DRAFTED BY _____

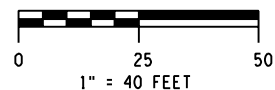


MATCHLINE, SEE DWG. AP-2C

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

DRAFT
NOT FOR CONSTRUCTION

GATE W-7 ACCESS ROAD AND LAYDOWN AREA PLAN



SURVEY AND MAPPING PROVIDED BY:

BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

Barton
& Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL

ULSTER COUNTY

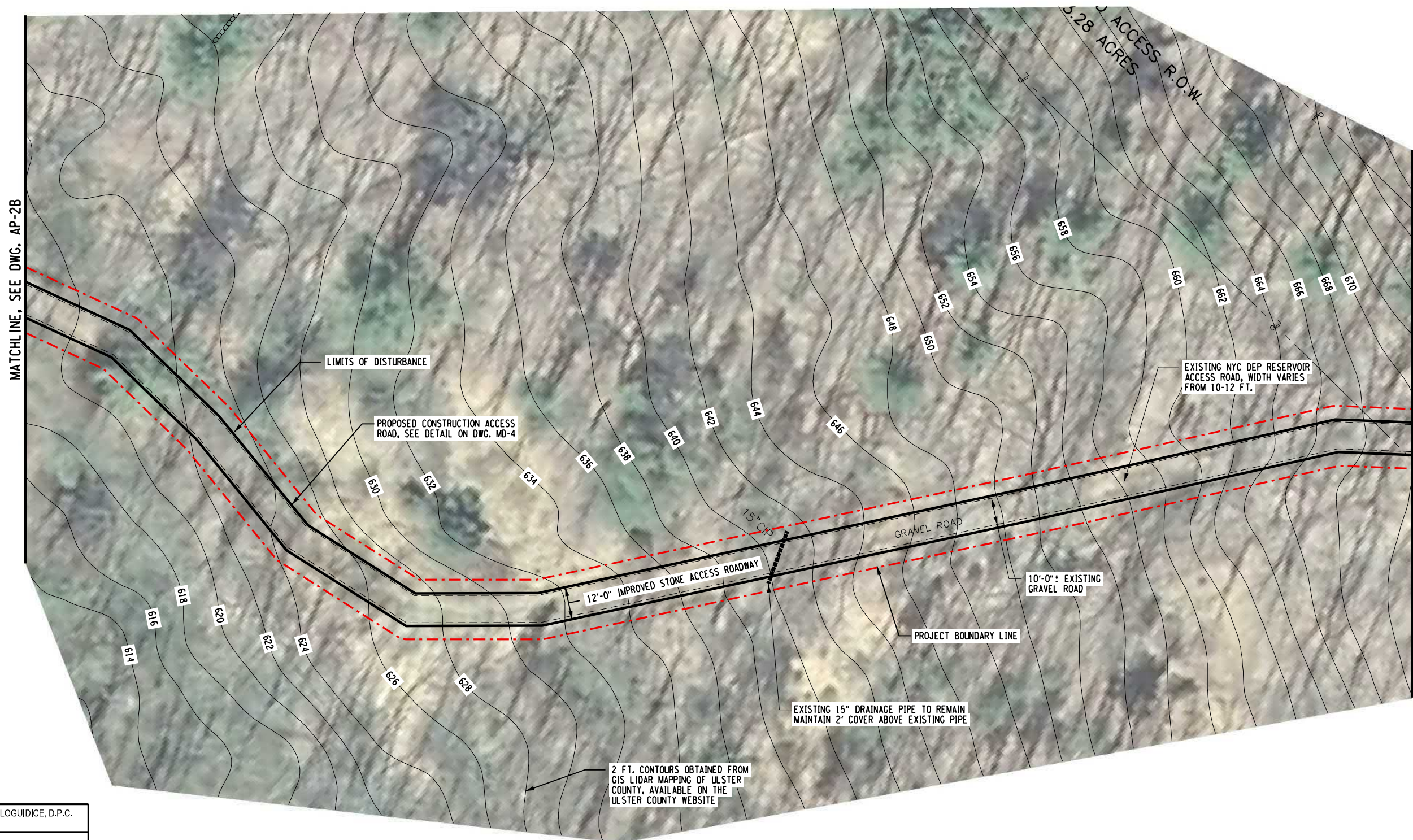
ACCESS ROAD
PLAN - 2B

SCALE: 1:40
DATE ISSUED: 2/2018
DRAWING AP-2B

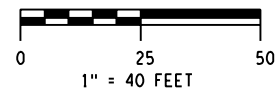
IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____
DRAFTED BY _____ CHECKED BY _____

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

DRAFT
NOT FOR CONSTRUCTION



GATE W-7 ACCESS ROAD AND LAYDOWN AREA PLAN



SURVEY AND MAPPING PROVIDED BY:

[illegible]Barton
Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

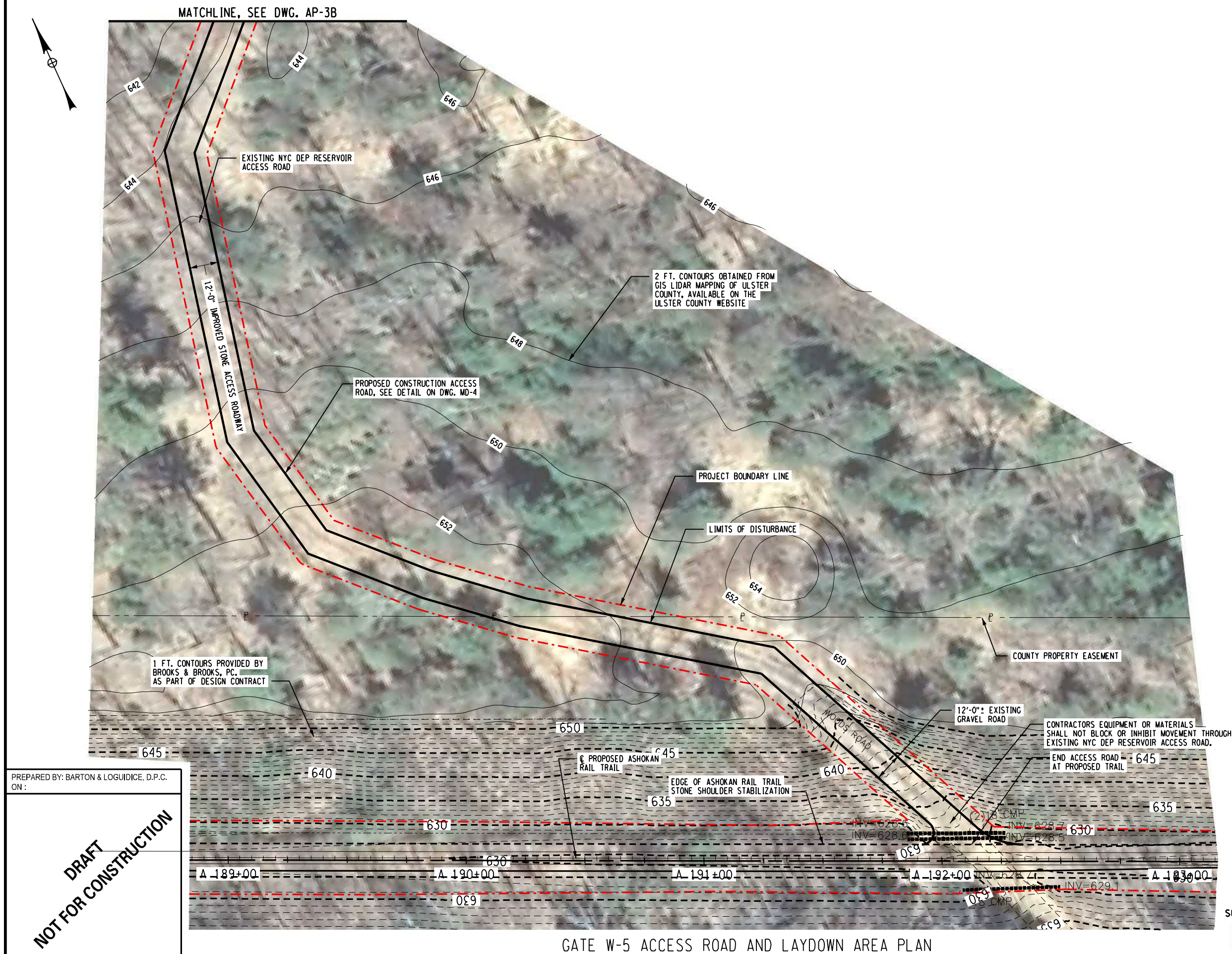
ASHOKAN RAIL TRAIL

ULSTER COUNTY

ACCESS ROAD
PLAN - 2C

SCALE: 1:40
DATE ISSUED: 2/2018
DRAWING AP-2C

XX



SURVEY AND MAPPING PROVIDED BY:

BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

--	--	--	--

Barton
& Loguidice, D.P.C.

DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL
ULSTER COUNTY

ACCESS ROAD
PLAN - 3A

SCALE: 1:40

DATE ISSUED: 2/2018

DRAWING

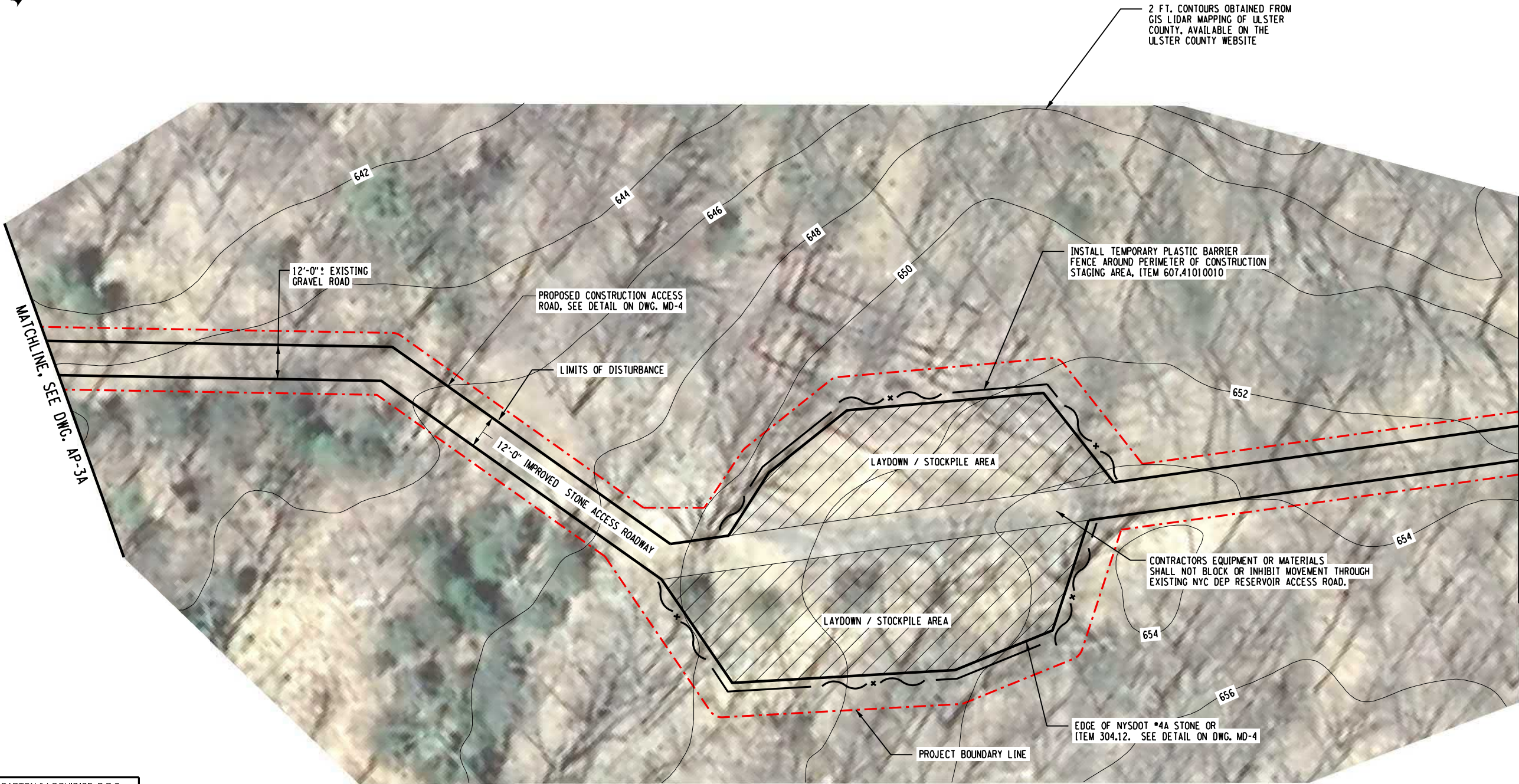
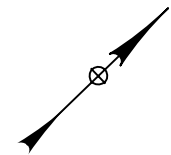
P-3A

FILE NAME = L:\MSTN Projects\0300\369.007 - Ashokan Rail Trail\MSTN\PS&E Plans\250.369007 Access Rd.003B.dgn
DATE = 2/16/2018
TIME = 4:30:32 PM


cmh
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT_SIZE_B - HPM712.tbl
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT_LJ5000.B.04.006.plt

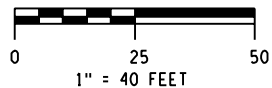
IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :
DRAFT
NOT FOR CONSTRUCTION




GATE W-5 ACCESS ROAD AND LAYDOWN AREA PLAN

 MATERIAL STORAGE, LAYDOWN, OR STOCKPILING IN SHADED AREAS ONLY. STONE AND GEOTEXTILE FABRIC SHALL BE REMOVED IN THESE AREAS POST CONSTRUCTION OF TRAIL TO EXPOSE UNDERLYING SOILS BELOW GEOTEXTILE FABRIC.



SURVEY AND MAPPING PROVIDED BY:

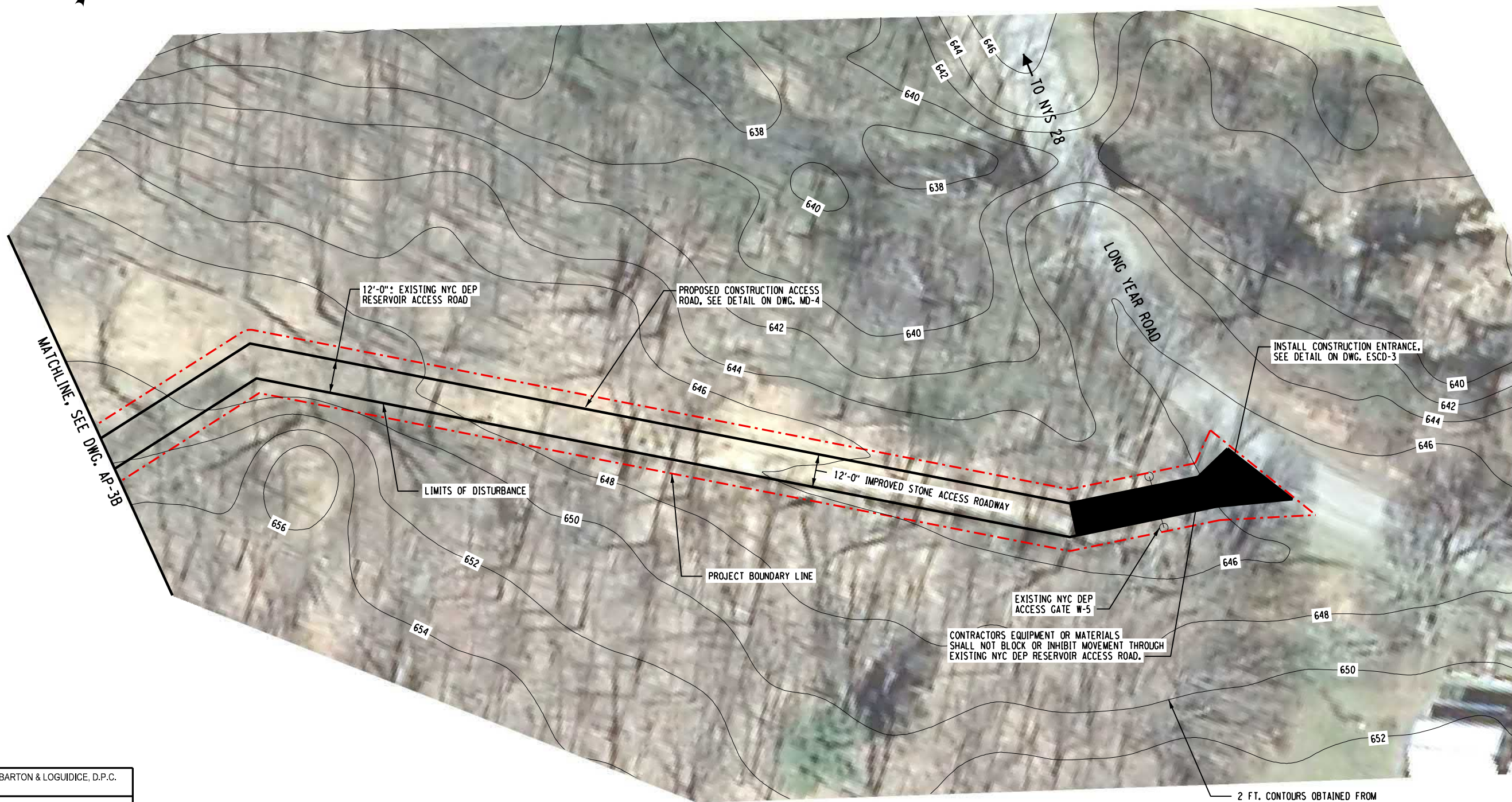
BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

XX			
NO.	DATE	BY	REVISION
			
Barton & Loguidice, D.P.C.			
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209			
ASHOKAN RAIL TRAIL		ULSTER COUNTY	
ACCESS ROAD PLAN - 3B		SCALE: 1:40 DATE ISSUED: 2/2018 DRAWING AP-3B	

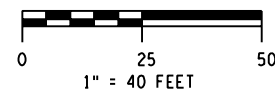
IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____
DRAFTED BY _____ CHECKED BY _____

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

DRAFT
NOT FOR CONSTRUCTION



GATE W-5 ACCESS ROAD AND LAYDOWN AREA PLAN



NO.	DATE	BY	REVISION
-----	------	----	----------

Barton
oguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL

ULSTER COUNTY

ACCESS ROAD
PLAN - 3C

SCALE: 1:40
DATE ISSUED: 2/2018
DRAWING AP-3C

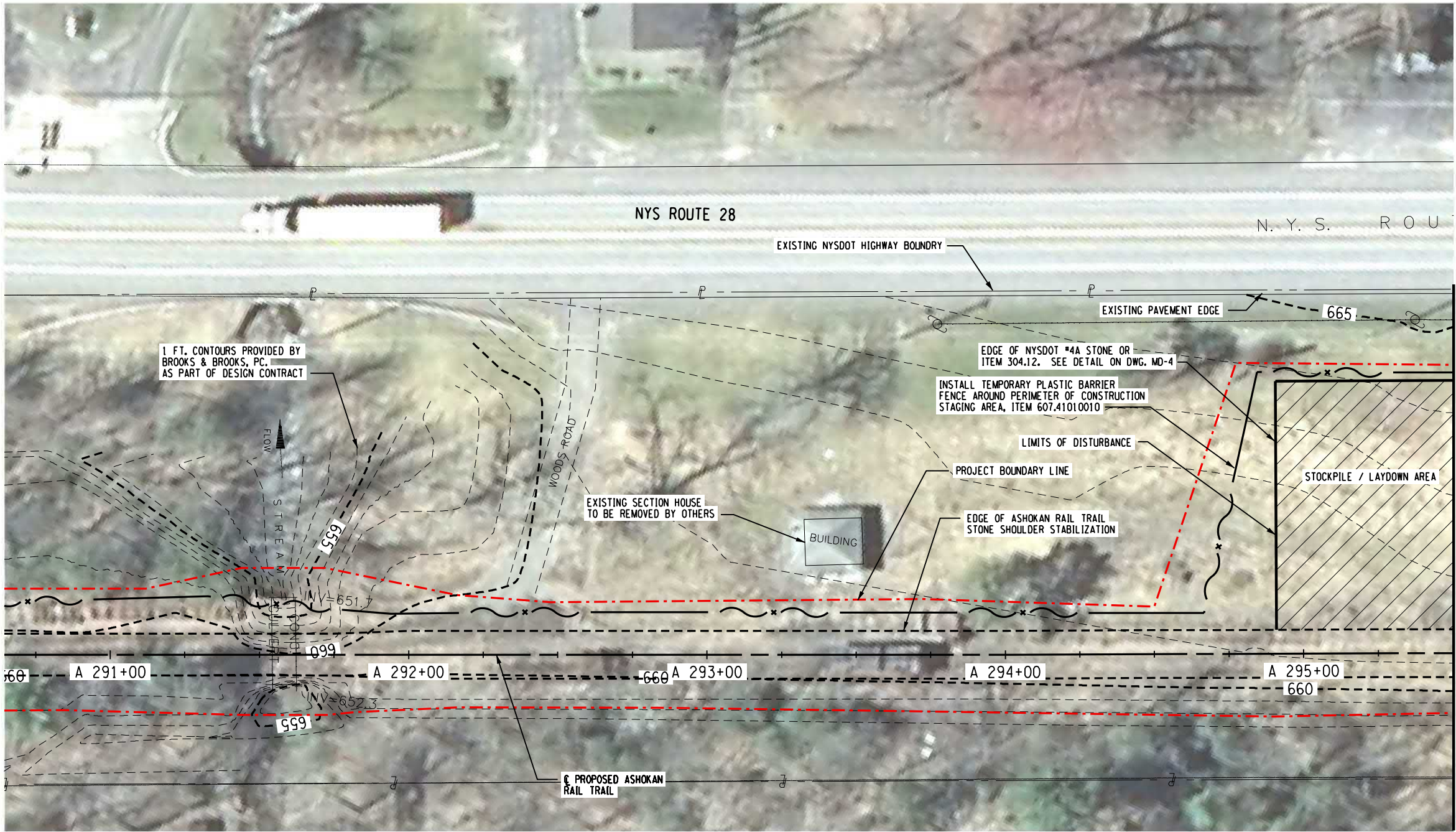
xx

FILE NAME = L:\MSTN Projects\0300\369.007 - Ashokan Rail Trail\MSTN\PS&E Plans\250.369007 Access Rd.004.dgn
DATE = 2/16/2018
TIME = 4:30:55 PM


cmh
L:\MicroStation\Workspace\Plot\NYS\DOT\NYS\DOT_SIZE_B - HPM712.tbl
L:\MicroStation\Workspace\Plot\NYS\DOT\NYS\DOT_SIZE_B.04.006.plt

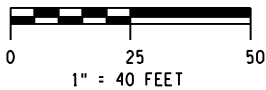
IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :
DRAFT
NOT FOR CONSTRUCTION




SHOKAN STATION ACCESS ROAD AND LAYDOWN AREA PLAN

 MATERIAL STORAGE, LAYDOWN, OR STOCKPILING IN SHADED AREAS ONLY. STONE AND GEOTEXTILE FABRIC SHALL BE REMOVED IN THESE AREAS POST CONSTRUCTION OF TRAIL TO EXPOSE UNDERLYING SOILS BELOW GEOTEXTILE FABRIC.



SURVEY AND MAPPING PROVIDED BY:

BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

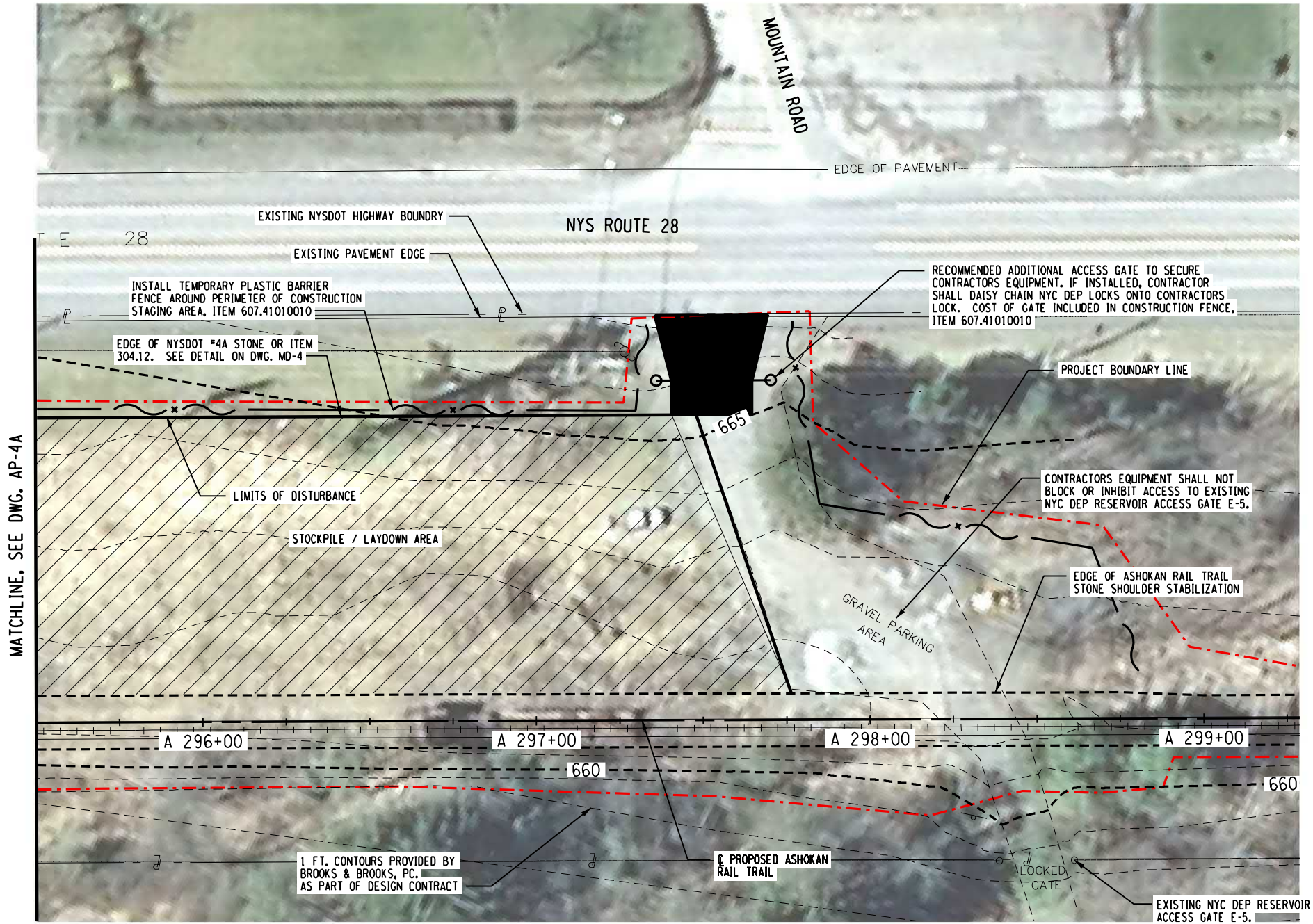
XX			
NO.	DATE	BY	REVISION
			
Barton & Loguidice, D.P.C.			
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209			
ASHOKAN RAIL TRAIL		ULSTER COUNTY	
ACCESS ROAD PLAN - 4A			
SCALE: 1:40			
DATE ISSUED: 2/2018			
DRAWING AP-4A			

FILE NAME = L:\MSTN Projects\0300\369.007 - Ashokan Rail Trail\MSTN\PS&E Plans\250.369007 Access Rd.004b.dgn
DATE = 2/16/2018
TIME = 4:31:02 PM


cmh
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_SIZE_B.04.006.plt

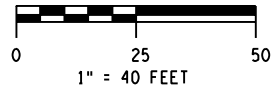
IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :
DRAFT
NOT FOR CONSTRUCTION



SHOKAN STATION ACCESS ROAD AND LAYDOWN AREA PLAN

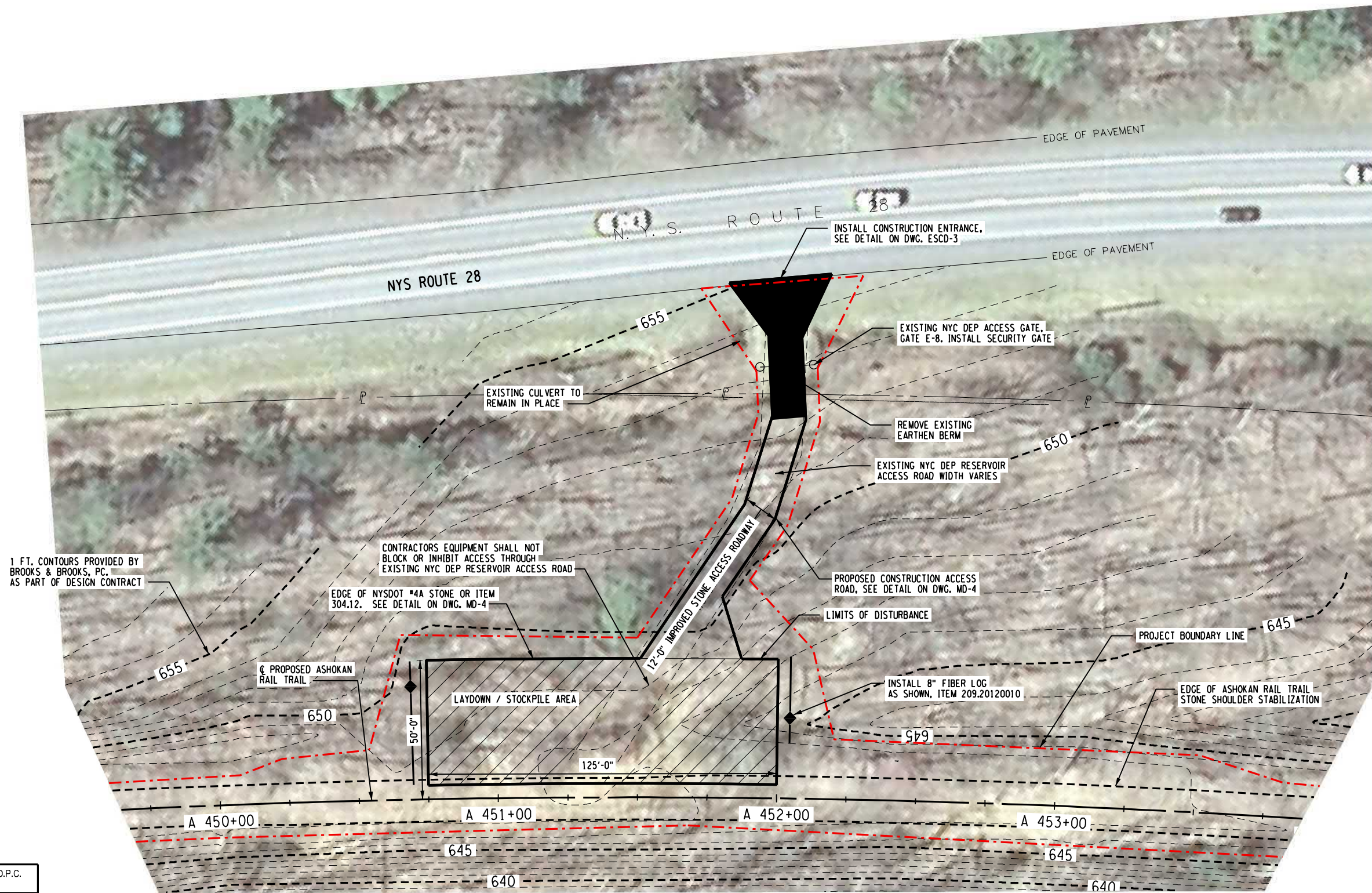
 MATERIAL STORAGE, LAYDOWN, OR STOCKPILING IN SHADED AREAS ONLY. STONE AND GEOTEXTILE FABRIC SHALL BE REMOVED IN THESE AREAS POST CONSTRUCTION OF TRAIL TO EXPOSE UNDERLYING SOILS BELOW GEOTEXTILE FABRIC.



SURVEY AND MAPPING PROVIDED BY:



		NO. DATE BY REVISION	
		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209	
ASHOKAN RAIL TRAIL			
ULSTER COUNTY			
ACCESS ROAD PLAN - 4B			
SCALE: 1"=40'			
DATE ISSUED: 2/2018			
DRAWING			
AP-4B			



GATE E-8 ACCESS ROAD AND LAYDOWN AREA PLAN

 MATERIAL STORAGE, LAYDOWN, OR STOCKPIILING IN SHADED AREAS ONLY

SURVEY AND MAPPING PROVIDED BY:

BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

ACCESS ROAD
PLAN - 5

SCALE: 1:40

DATE ISSUED: 2/2018

AP-5

ASHOKAN RAIL TRAIL
ULSTER COUNTY

Marion E. Loguidice, D.P.C.DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

--	--	--	--

X

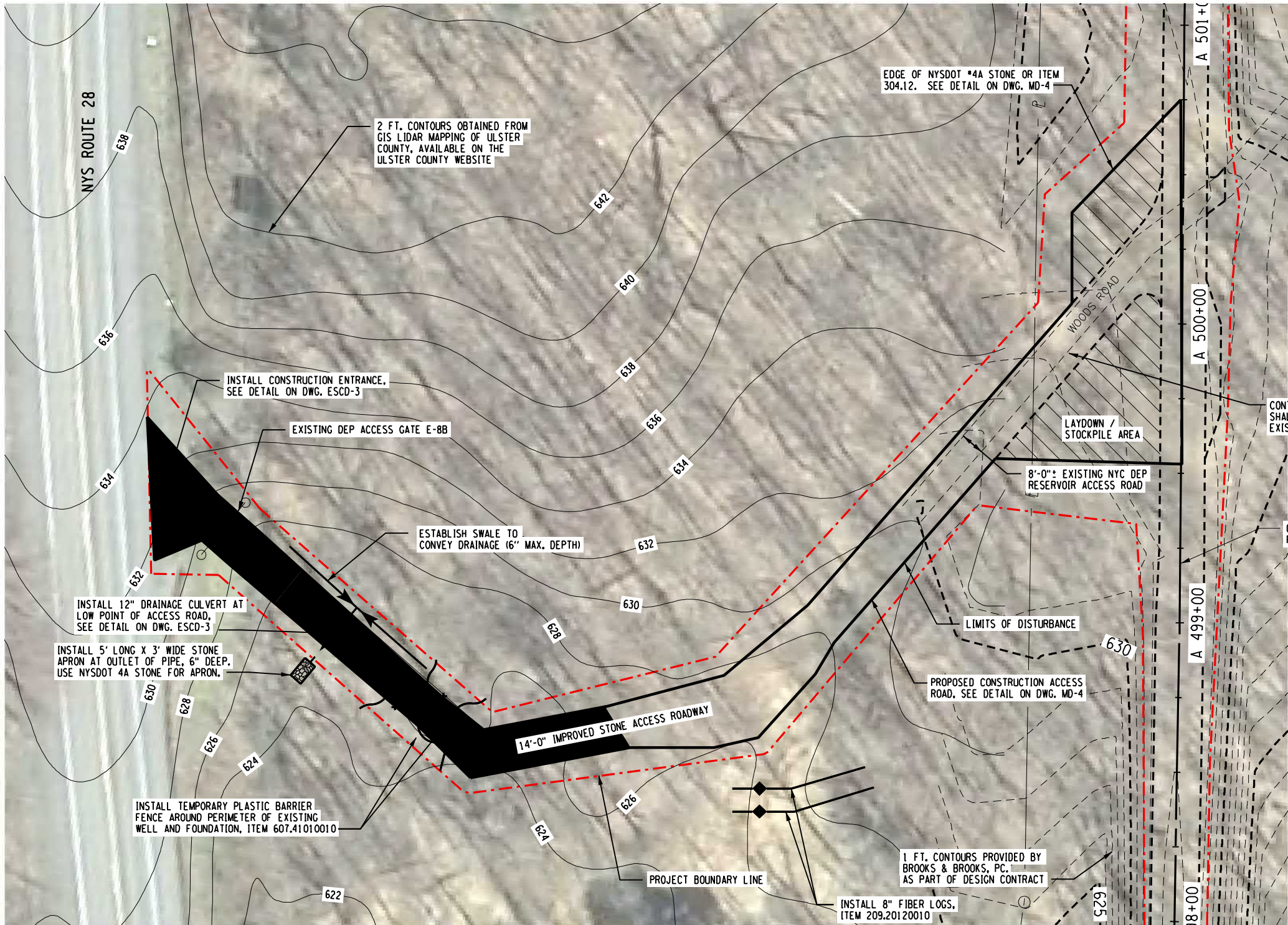
FILE NAME = L:\MSTN Projects\0300\369,007 - Ashokan Rail Trail\MSTN\PS&E Plans\250.369007 Access Rd.006.dgn
DATE = 2/16/2018
TIME = 4:31:19 PM

cmh
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_LJ5000.B.04.006.plt


IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

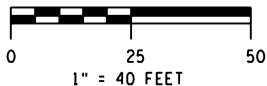
PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

DRAFT
NOT FOR CONSTRUCTION



GATE E-8B ACCESS ROAD AND LAYDOWN AREA PLAN

 MATERIAL STORAGE, LAYDOWN, OR STOCKPILING IN SHADED AREAS ONLY. STONE AND GEOTEXTILE FABRIC SHALL BE REMOVED IN THESE AREAS POST CONSTRUCTION OF TRAIL TO EXPOSE UNDERLYING SOILS BELOW GEOTEXTILE FABRIC.



SURVEY AND MAPPING PROVIDED BY:

BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS



Barton
Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL
ULSTER COUNTY

ACCESS ROAD
PLAN - 6

SCALE: 1:40
DATE ISSUED: 2/2018
DRAWING
AP-6

NO. DATE BY REVISION

XX

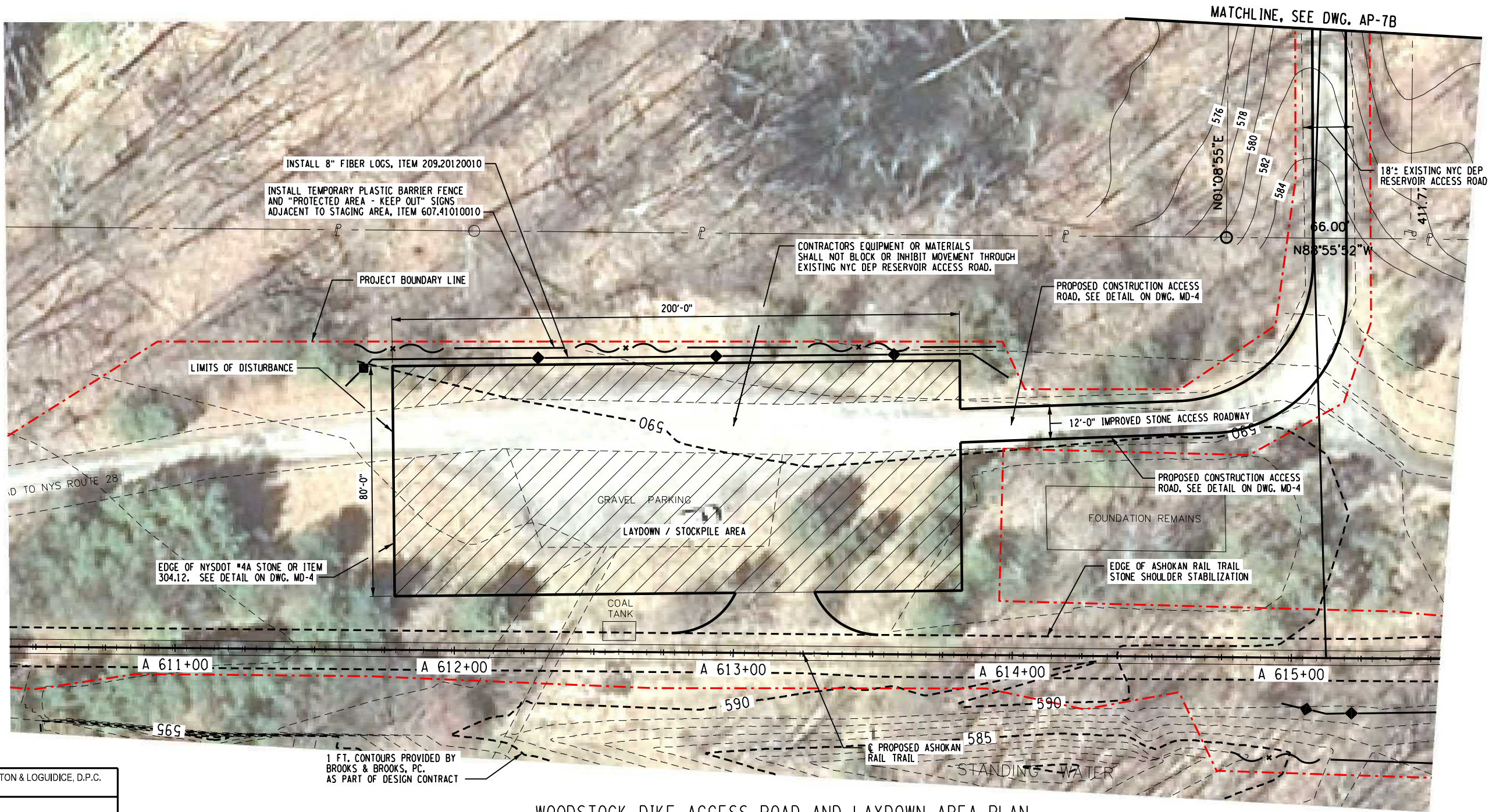
cmh
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT_SIZE_B - HPM712.tbl
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT_SIZE_B.04.06.plt

FILE NAME = L:\MSTN Projects\03000\369.007 - Ashokan Rail Trail\MSTN\PS&E Plans\250.369007 Access Rd.007A.dgn
DATE = 2/16/2018
TIME = 4:31:26 PM


IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

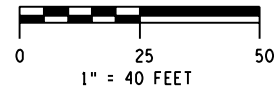
PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

DRAFT
NOT FOR CONSTRUCTION



WOODSTOCK DIKE ACCESS ROAD AND LAYDOWN AREA PLAN

 MATERIAL STORAGE, LAYDOWN, OR STOCKPILING IN SHADED AREAS ONLY. STONE AND GEOTEXTILE FABRIC SHALL BE REMOVED IN THESE AREAS POST CONSTRUCTION OF TRAIL TO EXPOSE UNDERLYING SOILS BELOW GEOTEXTILE FABRIC.



SURVEY AND MAPPING PROVIDED BY:

BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

NO. DATE BY REVISION



Barton & Loguidice, D.P.C.

ASHOKAN RAIL TRAIL
ULSTER COUNTY

ACCESS ROAD
PLAN - 7A

SCALE: 1:40
DATE ISSUED: 2/2018
DRAWING
AP-7A

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

XX

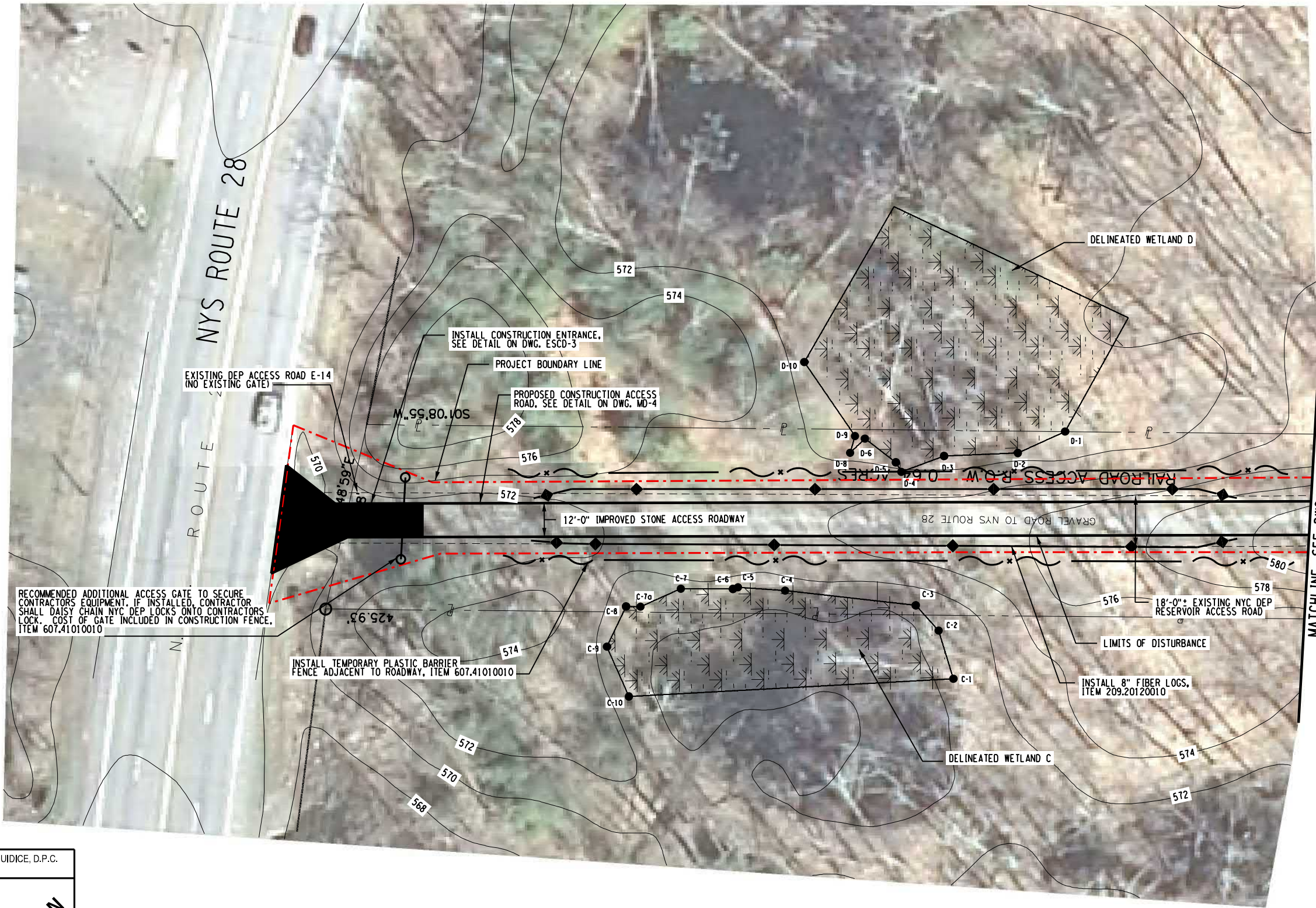
FILE NAME = L:\MSTN Projects\0300\369,007 - Ashoken Rail Trail\MSTN\PS&E Plans\250.369007 Access Rd.007B.dgn
DATE = 2/16/2018
TIME = 4:31:31 PM

cmh

L:\MicroStation\workspace\Plot\NYSOOT\NYSOOT_SIZE_B - HPM712.tbl
L:\MicroStation\workspace\Plot\NYSOOT\NYSOOT.LJ5000.B.04.00.plt

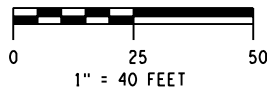
IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :
DRAFT
NOT FOR CONSTRUCTION



WOODSTOCK DIKE ACCESS ROAD AND LAYDOWN AREA PLAN

MATERIAL STORAGE, LAYDOWN, OR STOCKPILING IN SHADED AREAS ONLY. STONE AND GEOTEXTILE FABRIC SHALL BE REMOVED IN THESE AREAS POST CONSTRUCTION OF TRAIL TO EXPOSE UNDERLYING SOILS BELOW GEOTEXTILE FABRIC.



SURVEY AND MAPPING PROVIDED BY:

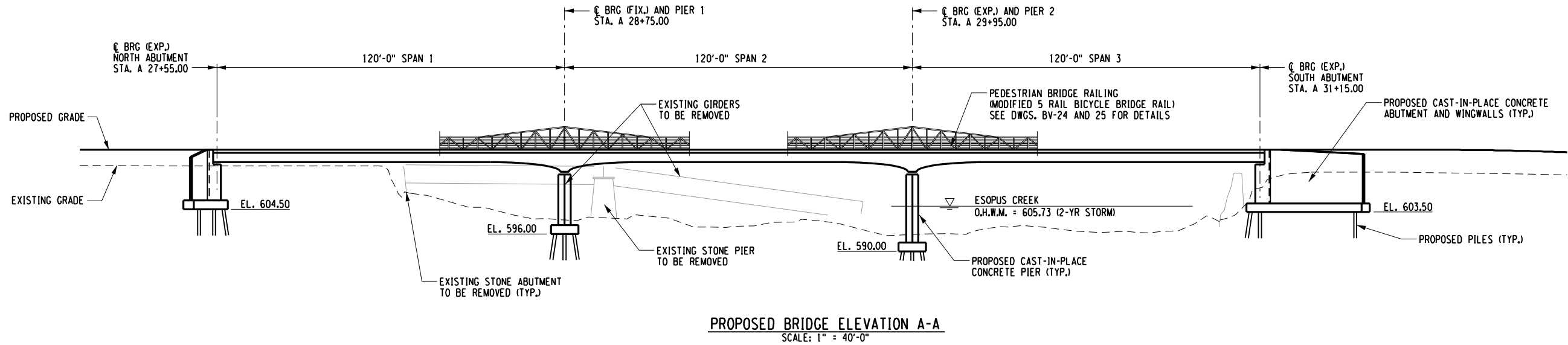
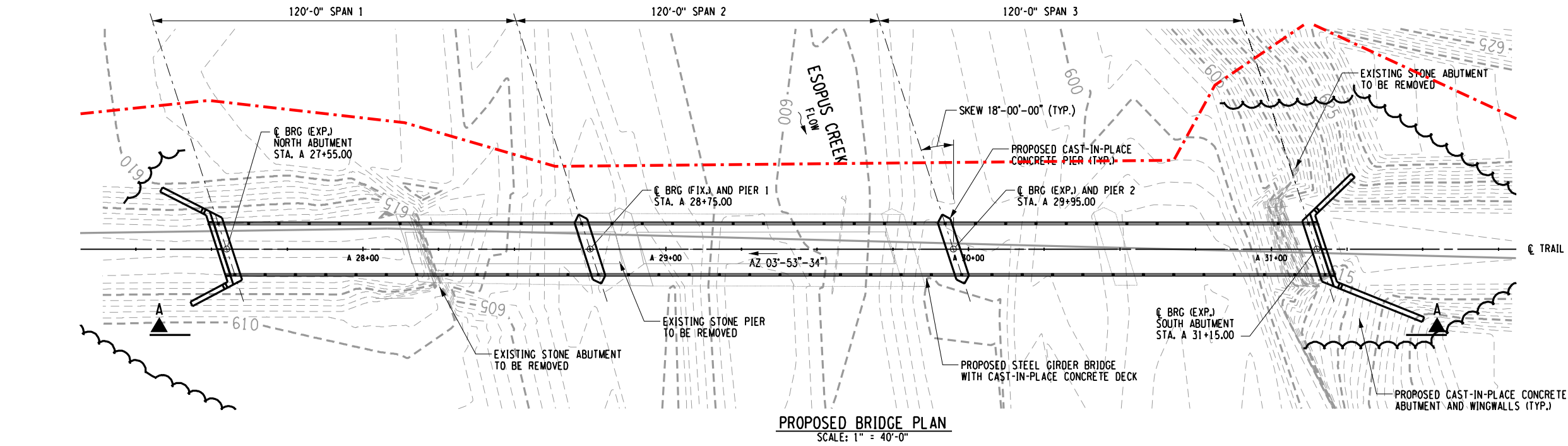
BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

ASHOKAN RAIL TRAIL		ULSTER COUNTY		ACCESS ROAD PLAN - 7B	
Barton & Loguidice, D.P.C.		ULSTER COUNTY		SCALE: 1:40	
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209		ULSTER COUNTY		DATE ISSUED: 2/2018	
NO. DATE BY REVISION		ULSTER COUNTY		DRAWING PL-7B	
XX		ULSTER COUNTY		PL-7B	

FILE NAME = L:\MSTN Projects\0300\369\007 - Ashoken Rail Trail\MSTN\PS&E Plans\301_369\07001 Borceville PLE.dgn
DATE = 2/19/2018
TIME = 11:09:42 AM

cmh
L:\MicroStationWorkspace\Plot\NYSOOT\SITE NYSOOT_SIZE.B.tbl
L:\MicroStationWorkspace\Plot\NYSOOT\NYSOOT.LJ5000.B.04.08.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



- NOTES:
1. SEE DWGS. PL-3 AND PL-4 FOR PROFILE INFORMATION.
 2. SEE DWGS. ESCP-3 AND ESCP-4 FOR GRADING PLAN.

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :



Barton & Loguidice, D.P.C.
UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK
ULSTER COUNTY

BRIDGE PLAN
AND
ELEVATION
SCALE: AS SHOWN
DATE ISSUED: 3/7/2018
DRAWING
BV-1

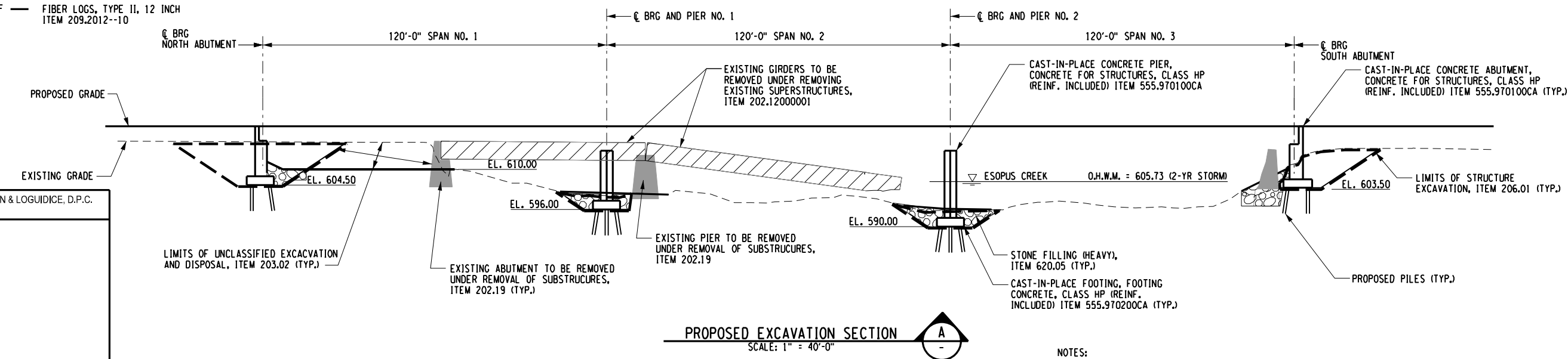
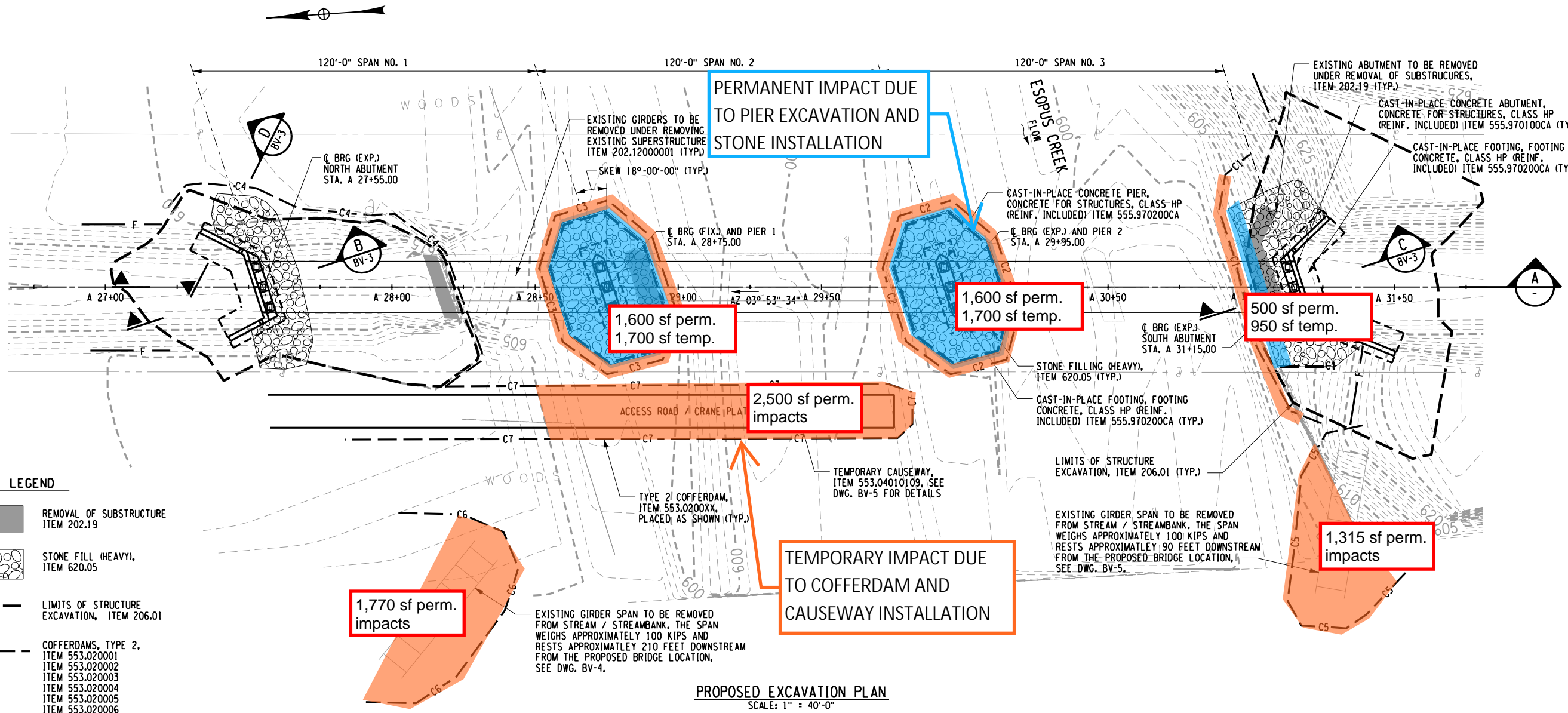
NO.	DATE	BY	REVISION
1	3/7/18	CMH	STREAM IMPACT REVISIONS

XX

FILE NAME = L:\MSTN Projects\0300\369\007 - Ashoken Rail Trail\MSTN\PS&E Plans\302.369007001 Boiceville Excavation PLEL.dgn
DATE = 3/19/2018
TIME = 11:09:45 AM

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

cmh
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT.LJ5000.B.04.08.plt



NOTES:
1. SEE DWGS. PL-3 AND PL-4 FOR PROFILE INFORMATION.
2. SEE DWGS. ESCP-3 AND ESCP-4 FOR GRADING PLAN.

SURVEY AND MAPPING PROVIDED BY:
BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

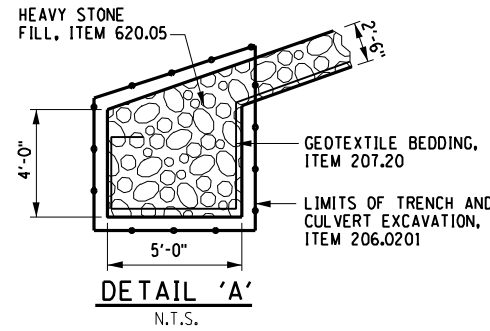
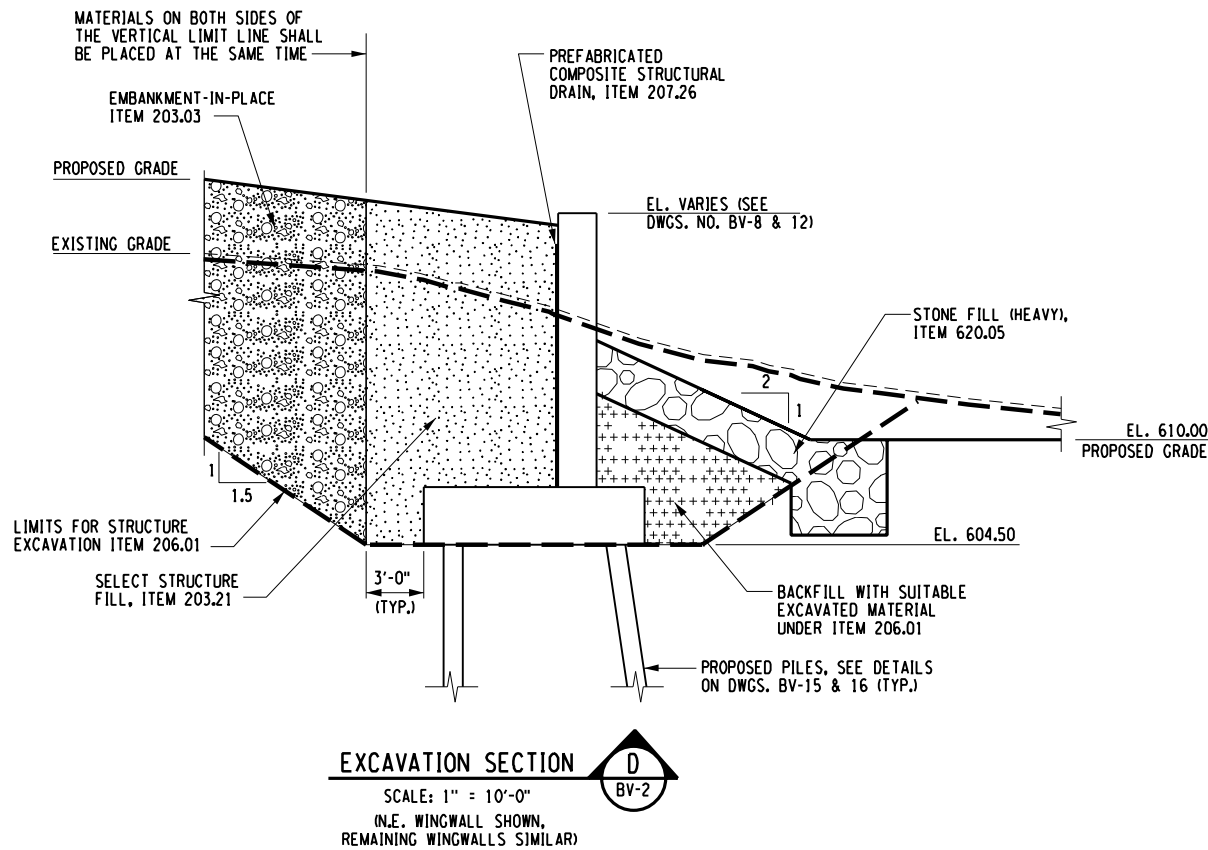
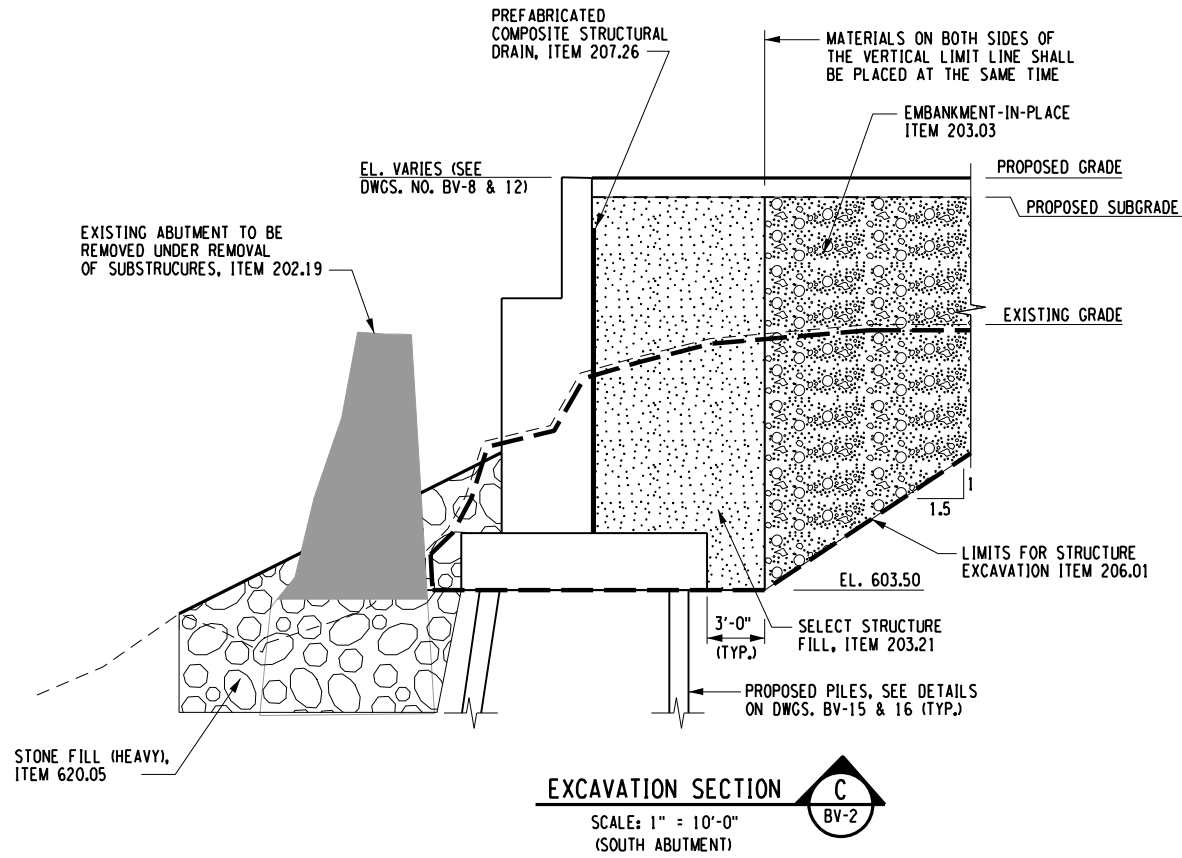
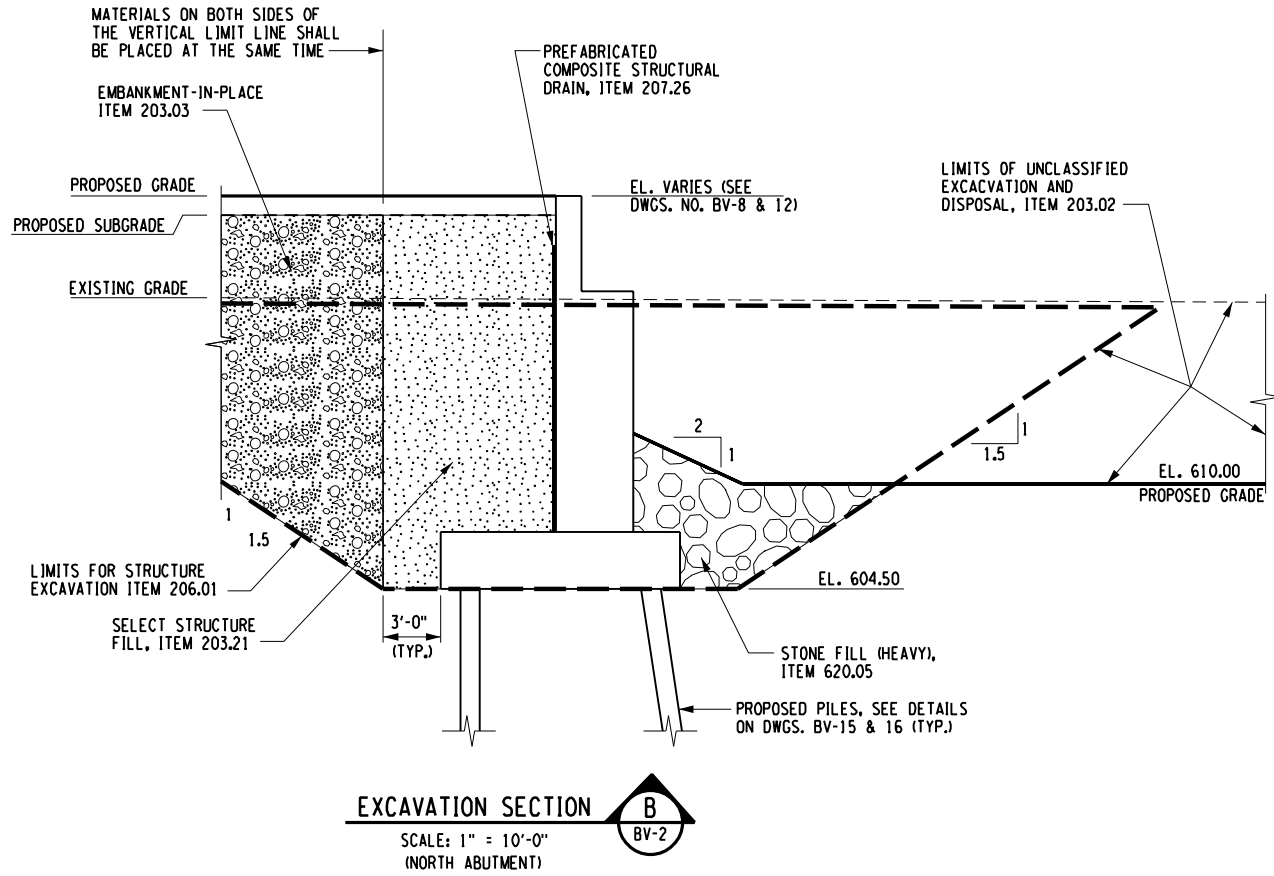
XX	
NO. DATE BY REVISION	
Barton & Loguidice, D.P.C.	
ASHOKAN RAIL TRAIL BOICEVILLE BRIDGE OVER ESOPUS CREEK	ULSTER COUNTY
BRIDGE EXCAVATION PLAN AND SECTION	
SCALE: AS SHOWN	
DATE ISSUED: 3/7/2018	
DRAWING BV-2	

FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\303.369007001 Boiceville Excavation Sections.dgn
DATE = 2/19/2018
TIME = 11:09:49 AM

cmh
L:\MicroStation\Workspace\Plot\NYSDOT\SITE\B.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT.LJ5000.B.04.08.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON : _____



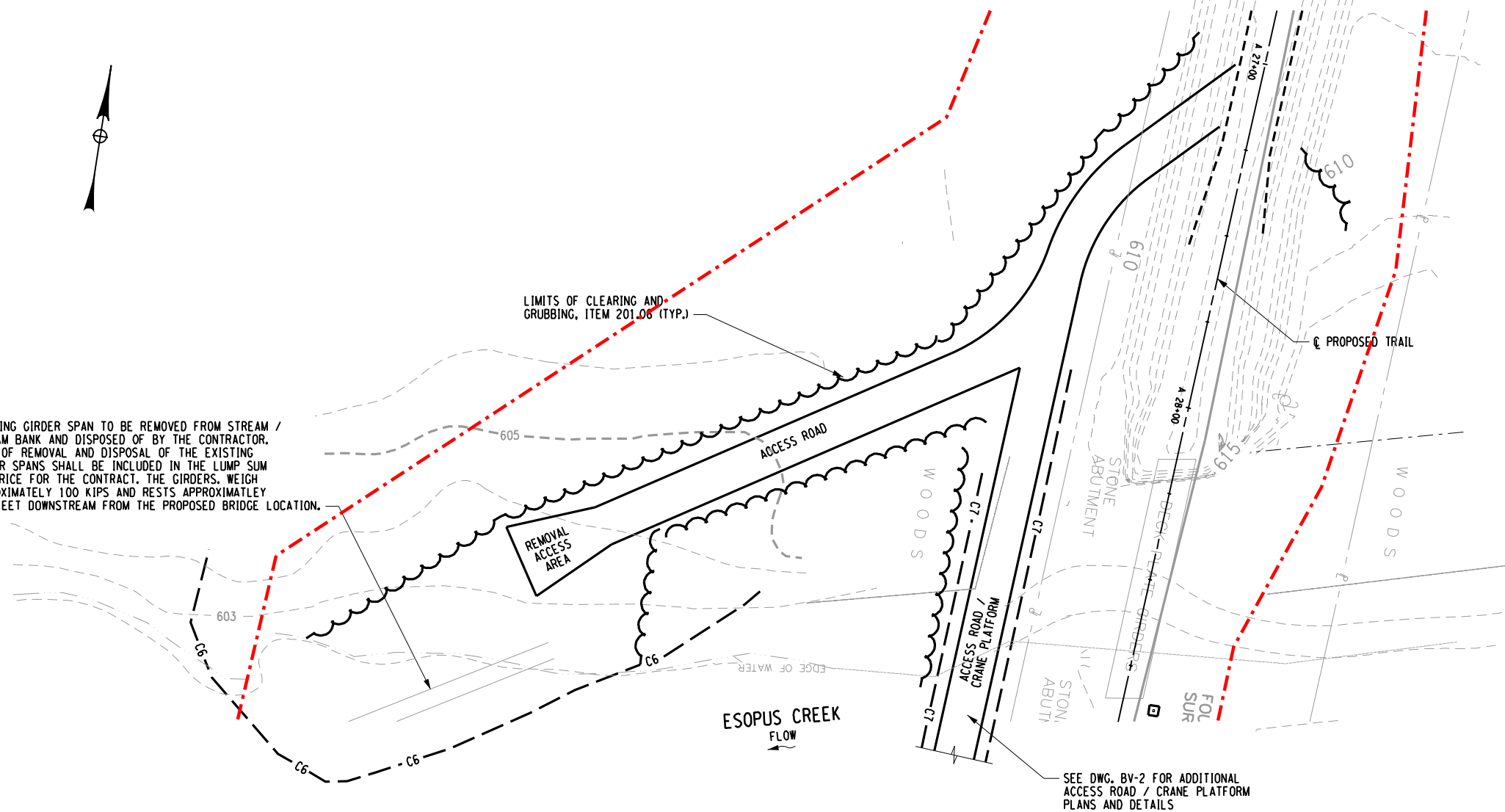
- LEGEND
- REMOVAL OF SUBSTRUCTURE ITEM 202.19
 - STONE FILL (HEAVY), ITEM 620.05
 - SELECT STRUCTURE FILL ITEM 203.21
 - EMBANKMENT-IN-PLACE ITEM 203.03
 - BACKFILL WITH SUITABLE EXCAVATED MATERIAL UNDER ITEM 206.01
 - LIMITS OF STRUCTURE EXCAVATION, ITEM 206.01

XX			
NO.	DATE	BY	REVISION
Barton & Loguidice, D.P.C.			
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209			
ASHOKAN RAIL TRAIL		ULSTER COUNTY	
BOICEVILLE BRIDGE OVER ESOPUS CREEK			
EXCAVATION SECTIONS AND DETAILS			
SCALE: AS SHOWN			
DATE ISSUED: 1/2018			
DRAWING BV-3			

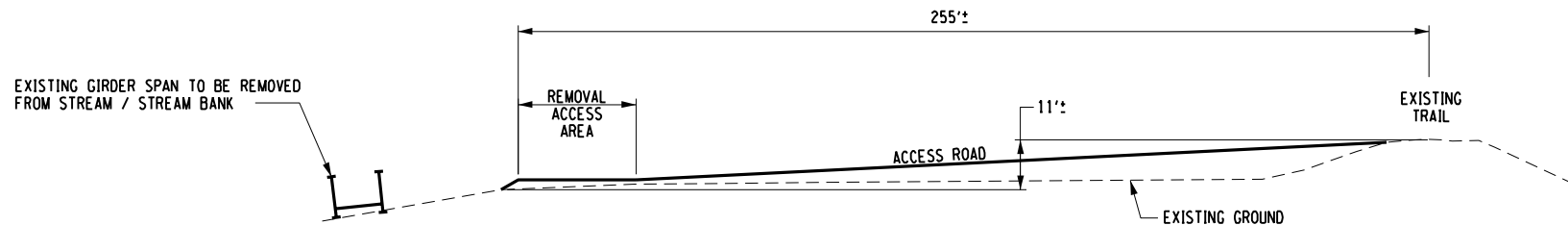
FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\305-369007001 Boiceville North removal plan.dgn
DATE = 2/19/2018
TIME = 11:09:57 AM
cmh
L:\MicroStation\Workspace\Plot\NYSOOT\SITE NYSOOT SIZE B.tbl
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT.LJ5000.B.04.08.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

EXISTING GIRDER SPAN TO BE REMOVED FROM STREAM / STREAM BANK AND DISPOSED OF BY THE CONTRACTOR. COST OF REMOVAL AND DISPOSAL OF THE EXISTING GIRDER SPANS SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR THE CONTRACT. THE GIRDERS, WEIGH APPROXIMATELY 100 KIPS AND RESTS APPROXIMATELY 210 FEET DOWNSTREAM FROM THE PROPOSED BRIDGE LOCATION.



PROPOSED NORTH BANK
GIRDER SPAN REMOVAL PLAN
SCALE: 1" = 40'-0"



PROPOSED NORTH BANK
GIRDER SPAN REMOVAL ACCESS RD. PROFILE
N.T.S.

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

DOWNSTREAM GIRDER REMOVAL NOTES:

1. THE CONTRACTOR MAY ELECT TO USE AN ALTERNATE GIRDER ACCESS AND REMOVAL PLAN THAN SHOWN WITH PRIOR APPROVAL BY THE ENGINEER.
2. ALL REMOVAL WORK SHALL BE PERFORMED IN THE DRY AFTER INSTALLATION OF COFFERDAMS.
3. CONTRACTOR MAY CUT THE GIRDER INTO SMALLER SECTIONS IF NEEDED TO IMPROVE REMOVAL PROCESS, HANDLING, AND TRANSPORT.
4. GRADES ON TEMPORARY ACCESS ROADS SHALL NOT EXCEED 10% GRADE.
5. TEMPORARY ACCESS ROADS SHALL BE APPROXIMATELY 15 FEET IN WIDTH.
6. TEMPORARY ACCESS ROADS SHALL BE CONSTRUCTED OF STONE FILL AND SHALL BE COMPACTED SUCH THAT CONSTRUCTION VEHICLES CAN TRAVEL TO AND FROM THE GIRDER REMOVAL LOCATIONS SAFELY.
7. TEMPORARY ACCESS ROADS SHALL BE REMOVED UPON COMPLETION OF GIRDER REMOVALS AND IMPACTED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
8. COSTS ASSOCIATED WITH THE CONSTRUCTION AND REMOVAL OF TEMPORARY ACCESS ROADS SHALL BE INCLUDED IN ITEM 202.120001.

SURVEY AND MAPPING PROVIDED BY:



Barton
& Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

ULSTER COUNTY

NORTH BANK
GIRDER REMOVAL
DETAILS

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BV-4

NO. DATE BY REVISION

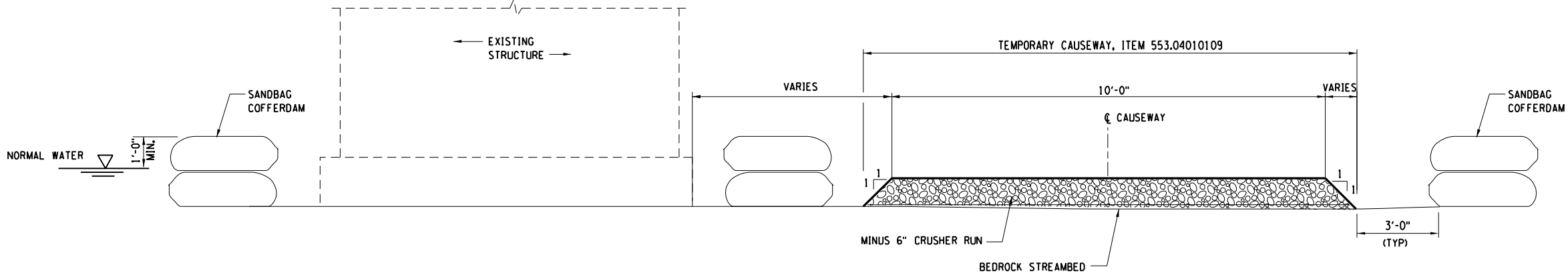
XX

FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\307_369\07001 Boiceville access pad plan.dgn
DATE = 2/19/2018
TIME = 11:01:15 AM

cmh
L:\MicroStation\Bentley_V8\WorkSpace\Plot\SITE_NYSDOT_SIZE_B.TBL
L:\MicroStation\WorkSpace\Plot\NYSDOT\NYSDOT_LLJ5000.B.04.006.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :



ACCESS ROAD / CRANE PLATFORM TYPICAL SECTION
NTS



Barton & Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

ULSTER COUNTY

ACCESS ROAD /
CRANE PLATFORM
SECTION

SCALE: AS SHOWN

DATE ISSUED: 1/2018

DRAWING

BV-6

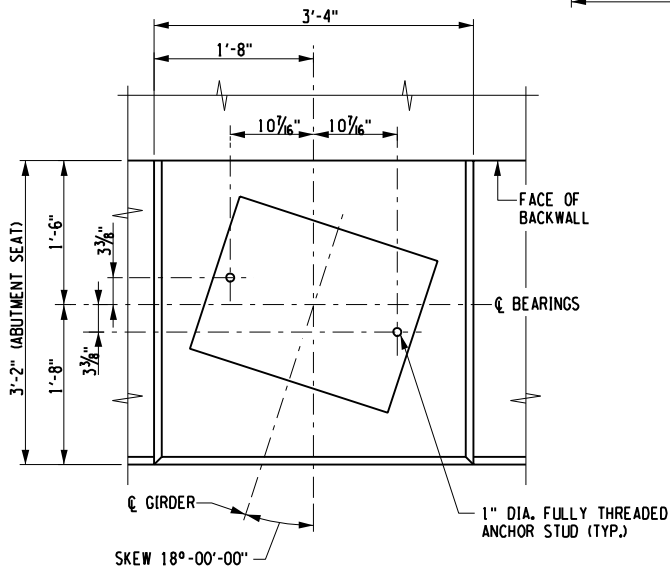
NO. DATE BY REVISION

XX

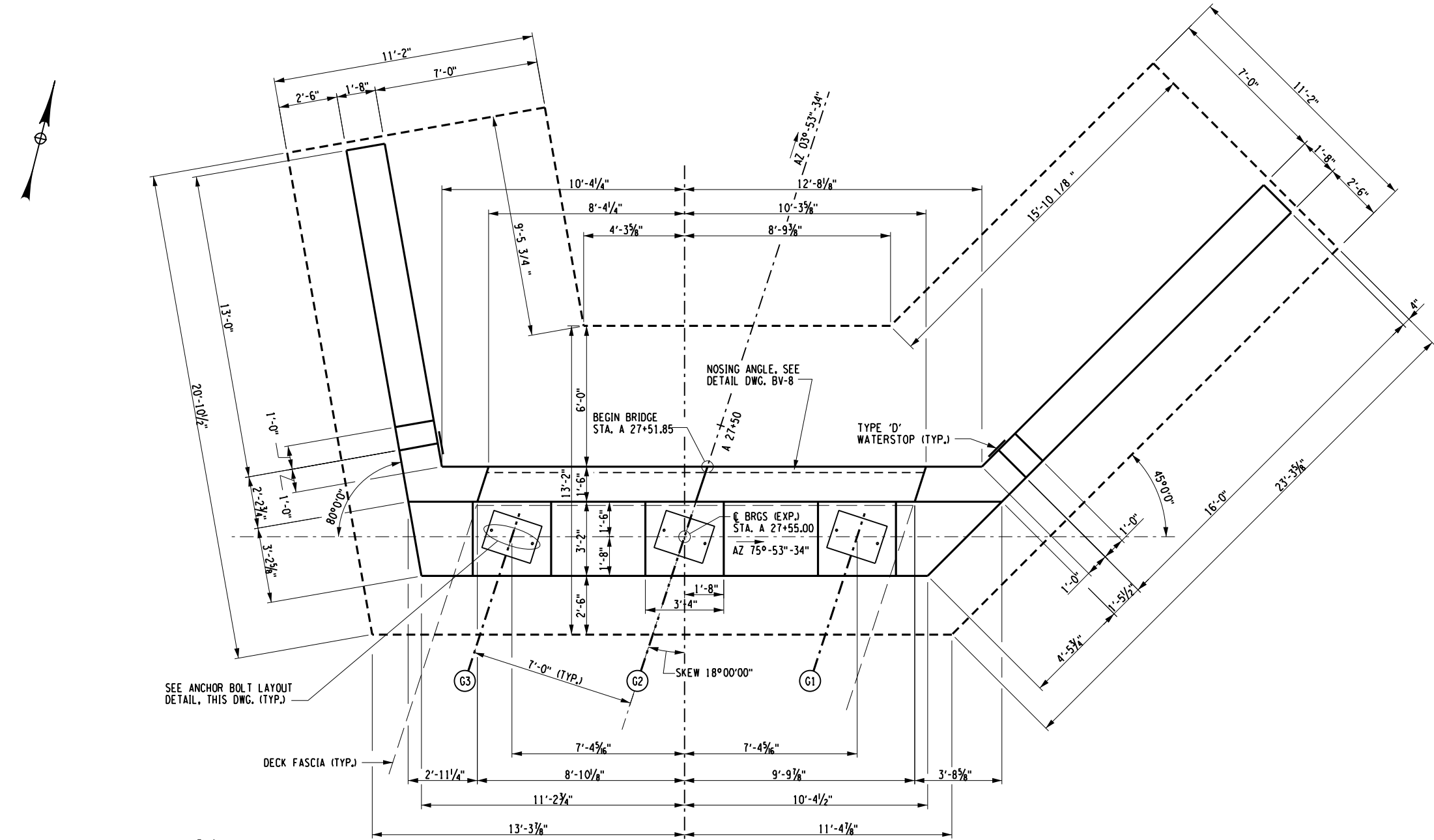
FILE NAME = L:\MSTN Projects\0300\369,007 - Ashoken Rail Trail\MSTN\PS&E Plans\310.369007001 North Abutment Plan.dgn
DATE = 2/19/2018
TIME = 11:10:04 AM
cmh
L:\MicroStation\Workspace\Plot\NYSDOT\SITE NYSDOT SIZE B.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT.LJ5000.B.04.008.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :



TYPICAL ABUTMENT ANCHOR BOLT LAYOUT
SCALE: 1/2" = 1'-0"



NORTH ABUTMENT PLAN
SCALE: 3/8" = 1'-0"

NOTES:

1. FOR KEYWAY AND WATERSTOP DETAILS, SEE SHEET BV-13.
2. FOR ADDITIONAL WINGWALL AND FOOTING DETAILS, SEE DWGS. BV-8, BV-13 AND BV-14.
3. FOR PEDESTAL DETAILS, SEE DWG. BV-13
4. ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED 1", UNLESS NOTED OTHERWISE.
5. FOR PILE LAYOUT AND DETAILS, SEE DWG. BV-15.



Barton & Loguidice, D.P.C.

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

NORTH
ABUTMENT
PLAN

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BV-7

ULSTER COUNTY

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

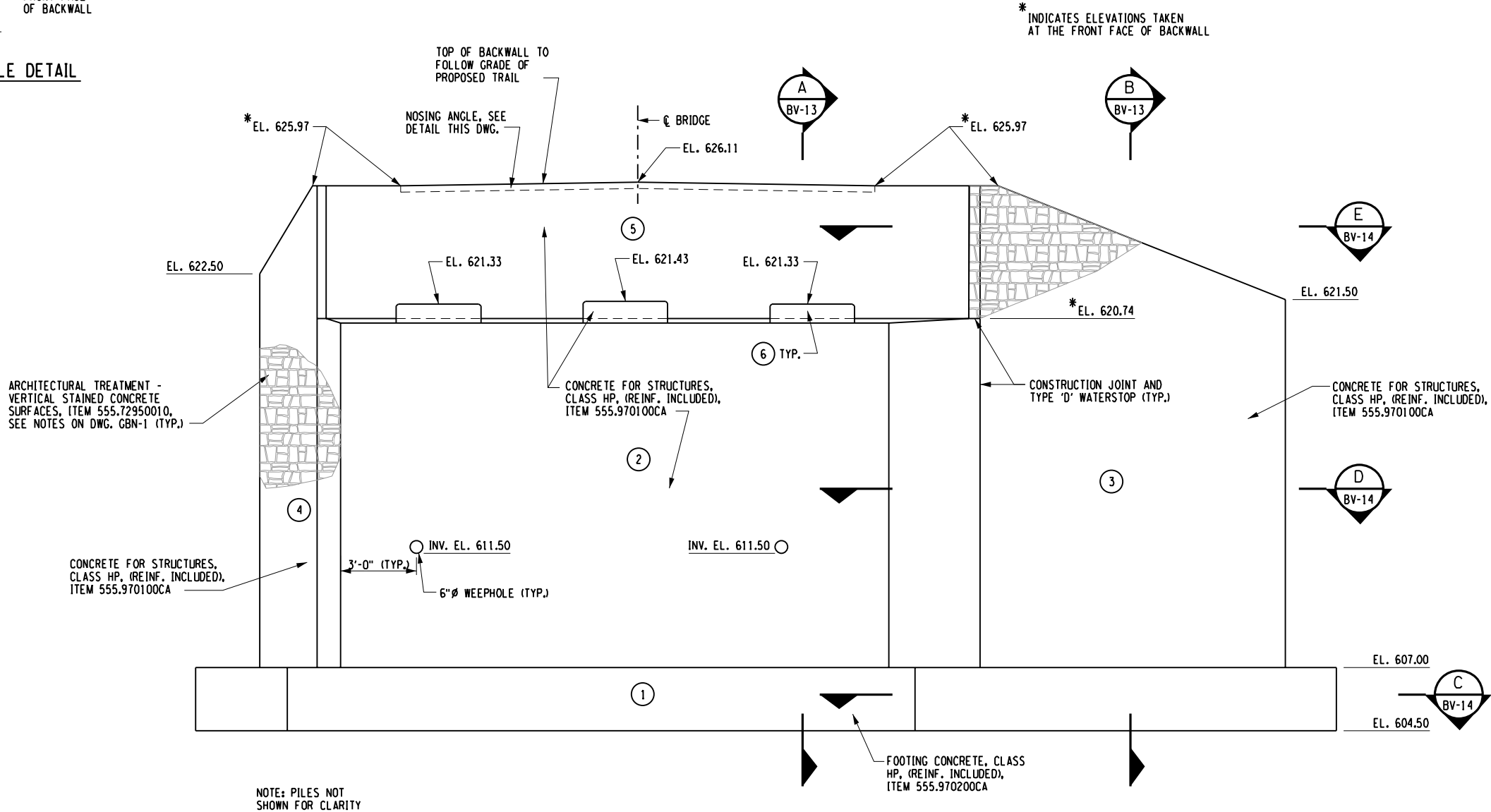
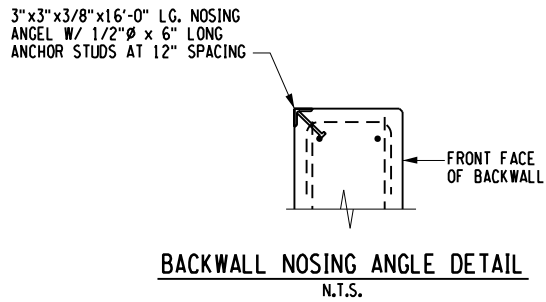
NO. DATE BY REVISION

XX

FILE NAME = L:\MSTN Projects\0300\369,007 - Ashoken Rail Trail\MSTN\PS&E Plans\312.369007001 North Abutment Elev.dgn
DATE = 2/19/2018
TIME = 11:10:06 AM

cmh
L:\MicroStation\Workspace\Plot\NYSDOT\SITE\NYSDOT_SIZE_B.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_LJ5000.B.04.08.plt



IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



NORTH ABUTMENT ELEVATION
SCALE: 3/8" = 1'-0"

CONCRETE TABLE - NORTH ABUT.		
PLACEMENT	QUANTITY (CY)	ITEM NO.
1	61.0	555.970200CA
2	58.5	555.970100CA
3	26.6	555.970100CA
4	21.0	555.970100CA
5	8.0	555.970100CA
6	0.8	555.970100CA

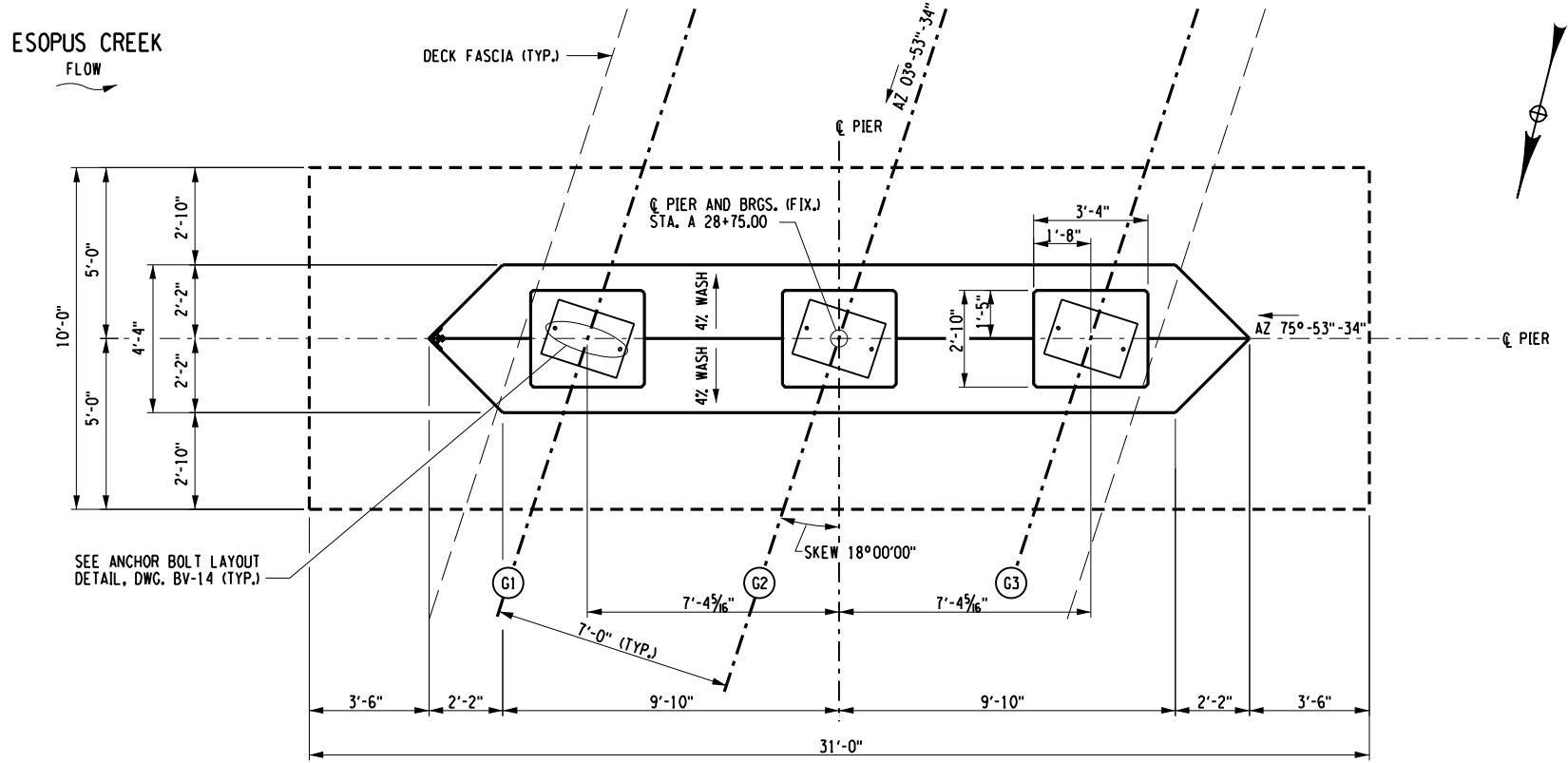
- NOTES:**
1. FOR KEYWAY AND WATERSTOP DETAILS, SEE SHEET BV-13.
 2. FOR ADDITIONAL WINGWALL AND FOOTING DETAILS, SEE DWGS. BV-7, BV-13 AND BV-14.
 3. FOR PEDESTAL DETAILS, SEE DWG. BV-13
 4. ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED 1", UNLESS NOTED OTHERWISE.
 5. FOR PILE LAYOUT AND DETAILS, SEE DWG. BV-15.

XX			
NO.	DATE	BY	REVISION
			
		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209	
ASHOKAN RAIL TRAIL BOICEVILLE BRIDGE OVER ESOPUS CREEK		ULSTER COUNTY	
NORTH ABUTMENT ELEVATION			
SCALE: AS SHOWN			
DATE ISSUED: 1/2018			
DRAWING BV-8			

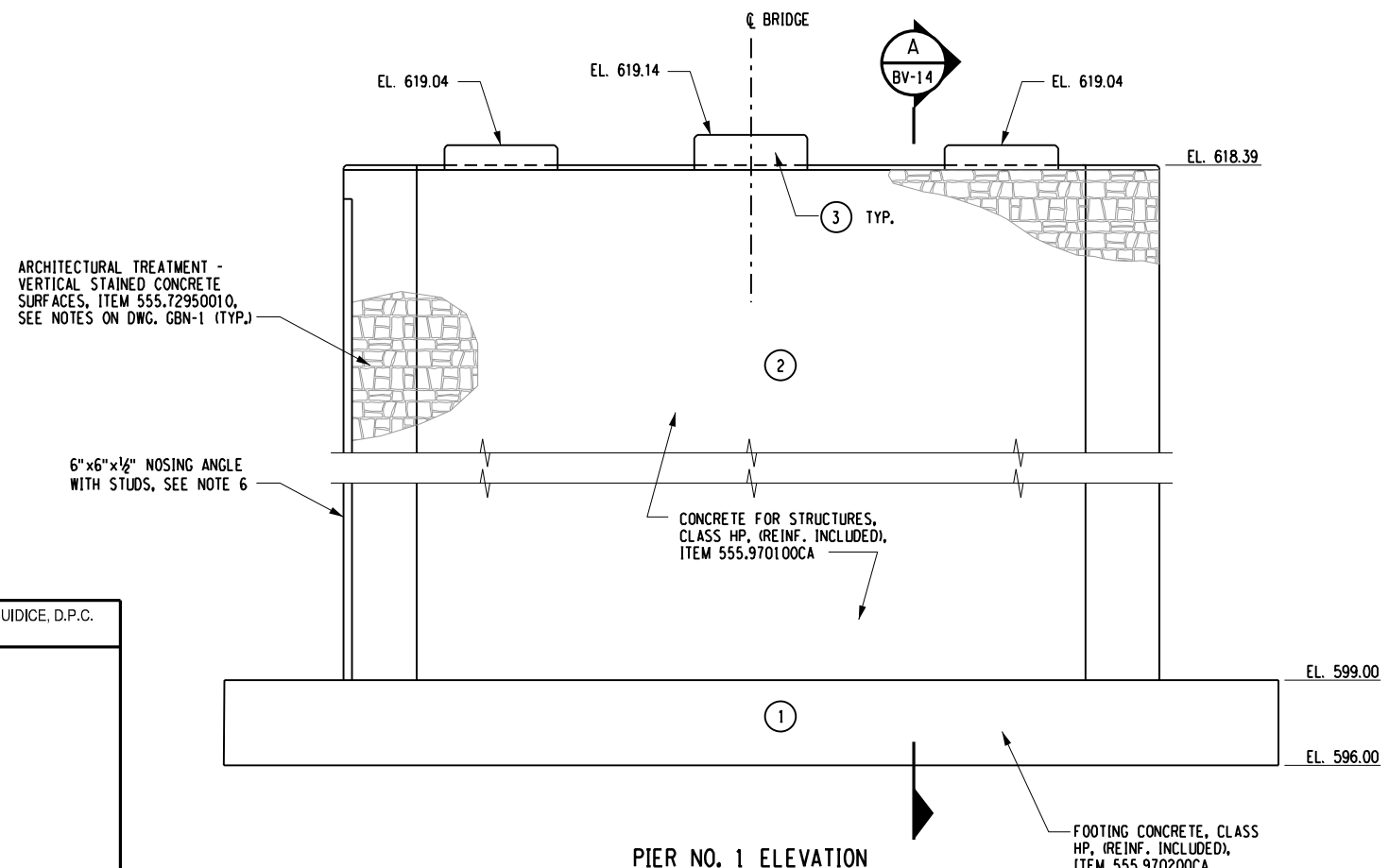
FILE NAME = L:\MSTN Projects\0300\369.007 - Ashokan Rail Trail\MSTN\PS&E Plans\314_369\007001 Pier 1.dgn
DATE = 2/19/2018
TIME = 11:10:09 AM

cmh
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT_SITE.B.tbl
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT_LJ5000.B.04.008.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



PIER NO. 1 PLAN
SCALE: 3/8" = 1'-0"

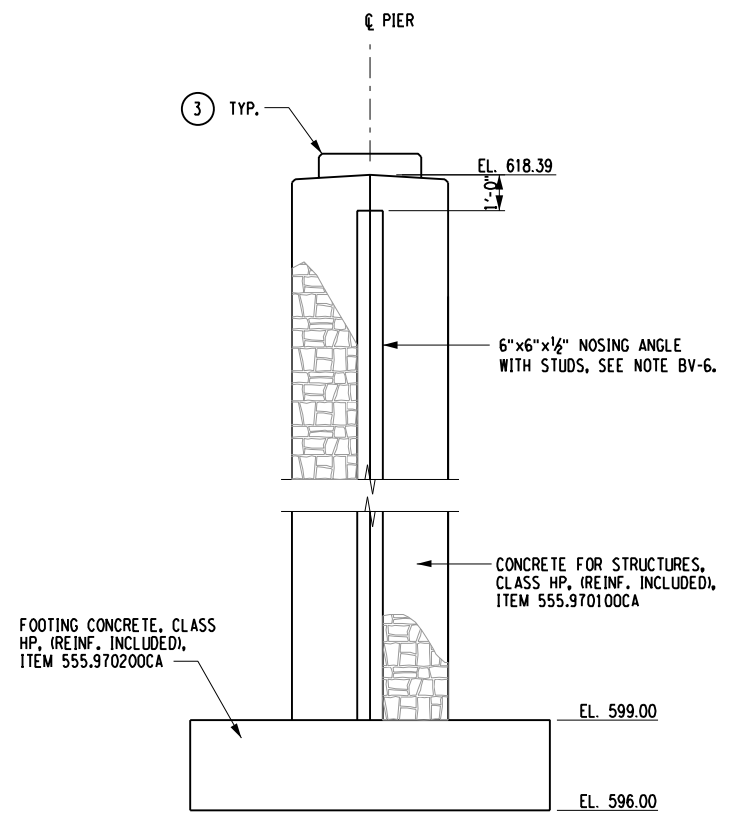


PIER NO. 1 ELEVATION
SCALE: 3/8" = 1'-0"



NOTES:

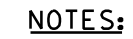
1. FOR KEYWAY AND WATERSTOP DETAILS, SEE SHEET BV-13.
2. FOR ADDITIONAL PIER AND FOOTING DETAILS, SEE DWGS. BV-14.
3. FOR PEDESTAL DETAILS, SEE DWG. BV-13.
4. ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED 1", UNLESS NOTED OTHERWISE.
5. FOR PILE LAYOUT AND DETAILS, SEE DWGS. BV-15 AND BV-16.
6. ALL CONCRETE ANCHOR STUDS WHICH ARE ATTACHED TO THE PIER NOSING SHALL MEET THE REQUIREMENTS LISTED MATERIAL SUBSECTION 709-05, STUD SHEAR CONNECTORS. PAYMENT FOR FURNISHING AND PLACING THE CONCRETE ANCHORS AND ANGLE WILL BE INCLUDED IN THE PRICE BID FOR THE CONCRETE ITEM TO WHICH THE ANCHORS ARE ATTACHED.

CONCRETE TABLE - PIER 1		
PLACEMENT	QUANTITY (CY)	ITEM NO.
1	34.44	555.970200CA
2	67.94	555.970100CA
3	0.75	555.970100CA



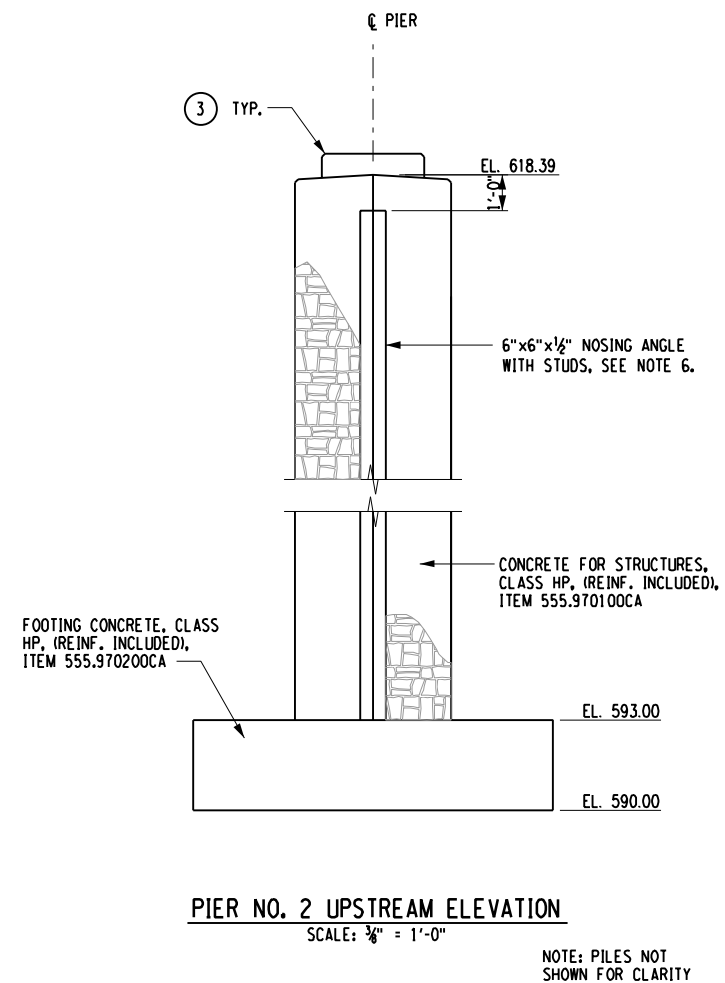
PIER NO. 1 UPSTREAM ELEVATION
SCALE: 3/8" = 1'-0"

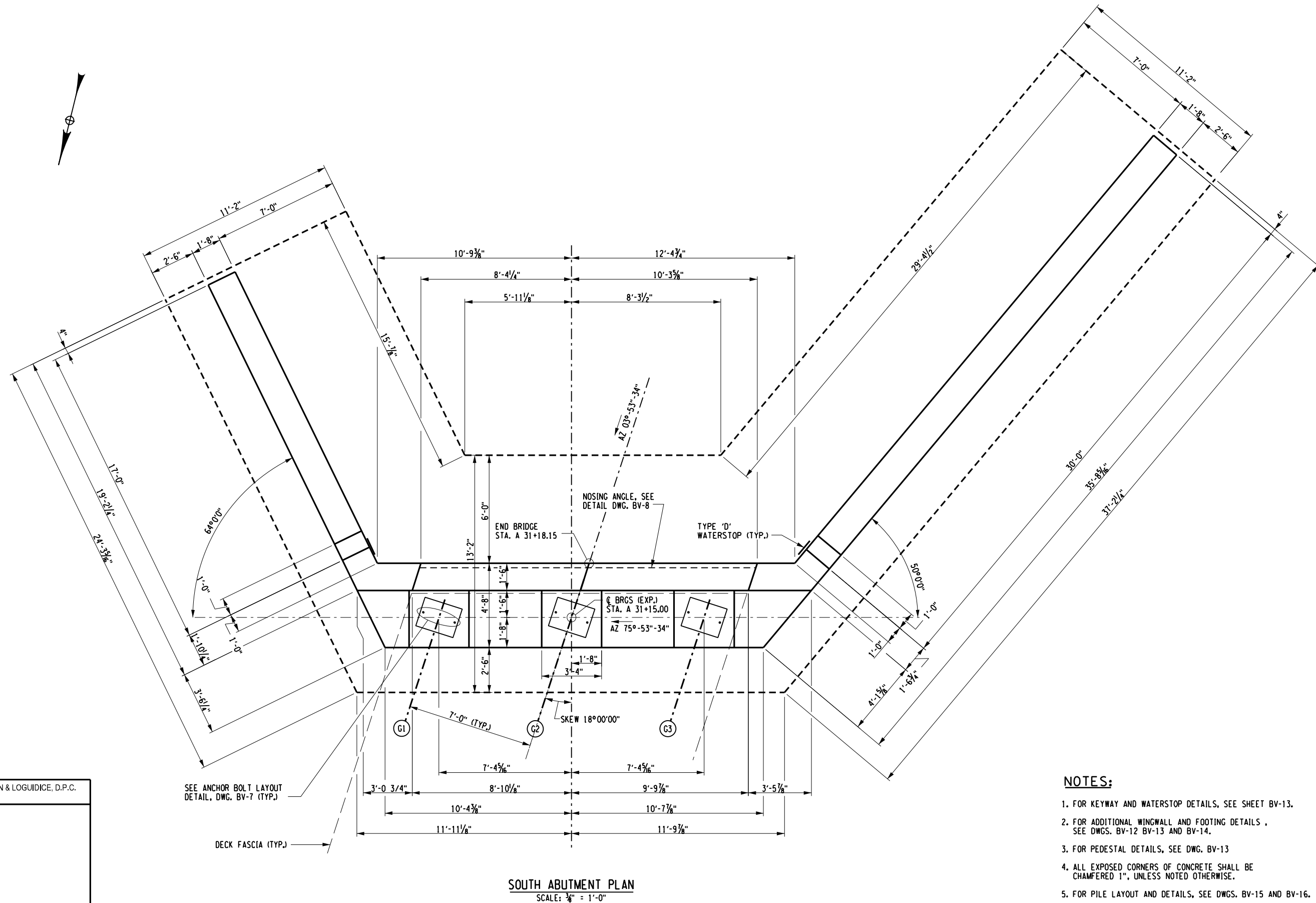
XX			
NO.	DATE	BY	REVISION
			
			
ASHOKAN RAIL TRAIL BOICEVILLE BRIDGE OVER ESOPUS CREEK		ULSTER COUNTY	
PIER NO. 1 PLAN AND ELEVATION			
SCALE: AS SHOWN			
DATE ISSUED: 1/2018			
DRAWING BV-9			



1. FOR KEYWAY AND WATERSTOP DETAILS, SEE SHEET BV-13.
2. FOR ADDITIONAL PIER AND FOOTING DETAILS ,
SEE DWGS. BV-14.
3. FOR PEDESTAL DETAILS, SEE DWG. BV-13.
4. ALL EXPOSED CORNERS OF CONCRETE SHALL BE
CHAMFERED 1", UNLESS NOTED OTHERWISE.
5. FOR PILE LAYOUT AND DETAILS, SEE DWGS. BV-15 AND BV-16.
6. ALL CONCRETE ANCHOR STUDS WHICH ARE ATTACHED
TO THE PIER NOSING SHALL MEET THE REQUIREMENTS
LISTED MATERIAL SUBSECTION 709-05, STUD SHEAR
CONNECTORS. PAYMENT FOR FURNISHING AND PLACING
THE CONCRETE ANCHORS AND ANGLE WILL BE INCLUDED
IN THE PRICE BID FOR THE CONCRETE ITEM TO WHICH
THE ANCHORS ARE ATTACHED.

CONCRETE TABLE - PIER 2		
PLACEMENT	QUANTITY (CY)	ITEM NO.
1	34.40	555.970200CA
2	88.97	555.970100CA
3	0.75	555.970100CA





NOTES:

1. FOR KEYWAY AND WATERSTOP DETAILS, SEE SHEET BV-13.
2. FOR ADDITIONAL WINGWALL AND FOOTING DETAILS ,
SEE DWGS. BV-12 BV-13 AND BV-14.
3. FOR PEDESTAL DETAILS, SEE DWG. BV-13
4. ALL EXPOSED CORNERS OF CONCRETE SHALL BE
CHAMFERED 1", UNLESS NOTED OTHERWISE.
5. FOR PILE LAYOUT AND DETAILS, SEE DWGS. BV-15 AND BV-16.

ASHOKAN RAIL TRAIL				Barton & Loguidice, D.P.C.	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209	NO. DATE	BY	REVISION
BOICEVILLE BRIDGE OVER ESOPUS CREEK								
ULSTER COUNTY								
SOUTH ABUTMENT PLAN								
SCALE: AS SHOWN								
DATE ISSUED: 1/2018								
DRAWING								
BV-11								

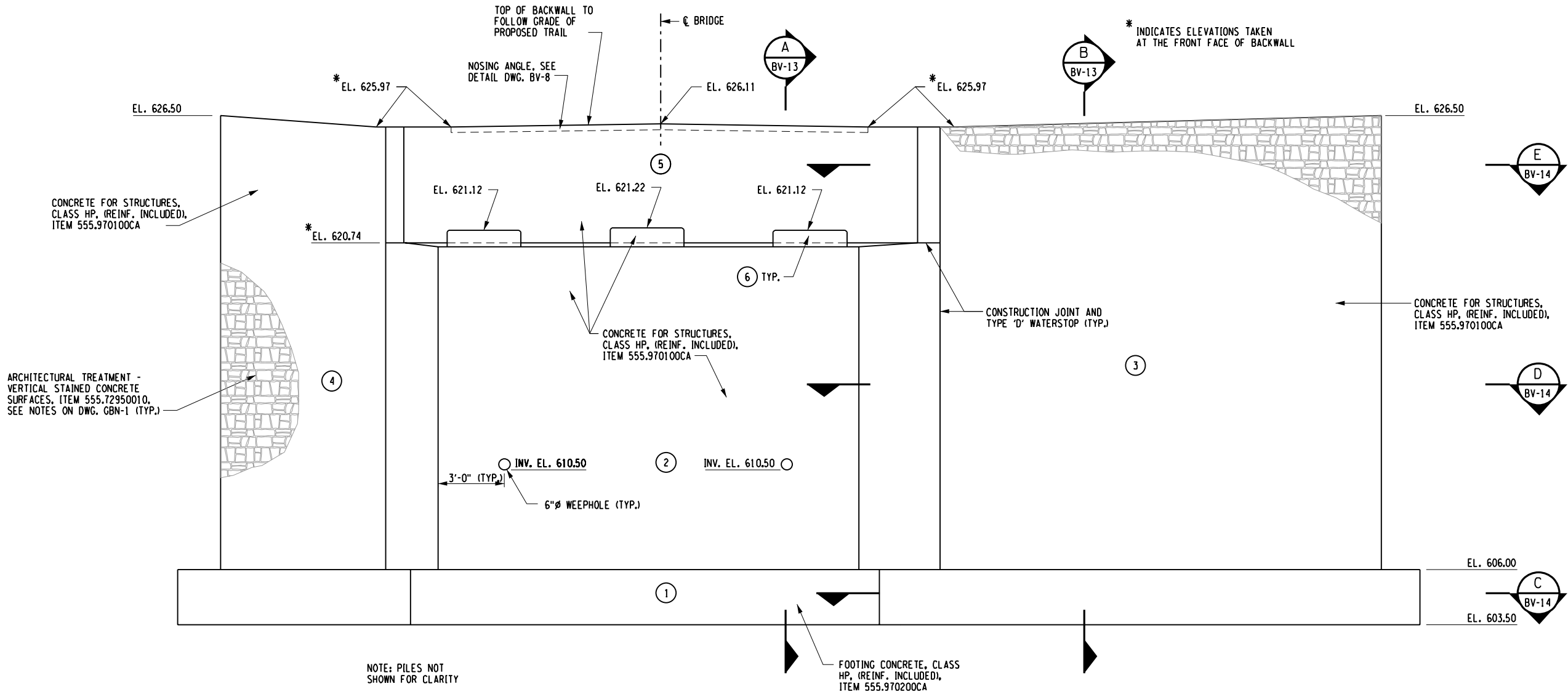
FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\317.369007\001 South Abutment Elev.dgn
DATE = 2/19/2018
TIME = 11:10:16 AM

cmh
L:\MicroStationWorkspace\Plot\NYSOOT\SITE\NYSOOT_SIZE.B.tbl
L:\MicroStationWorkspace\Plot\NYSOOT\NYSOOT.LJ5000.B.04.08.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON : _____

CONCRETE TABLE - SOUTH ABUT.		
PLACEMENT	QUANTITY (CY)	ITEM NO.
1	81.3	555.970200CA
2	61.9	555.970100CA
3	58.1	555.970100CA
4	31.8	555.970100CA
5	7.9	555.970100CA
6	0.5	555.970100CA



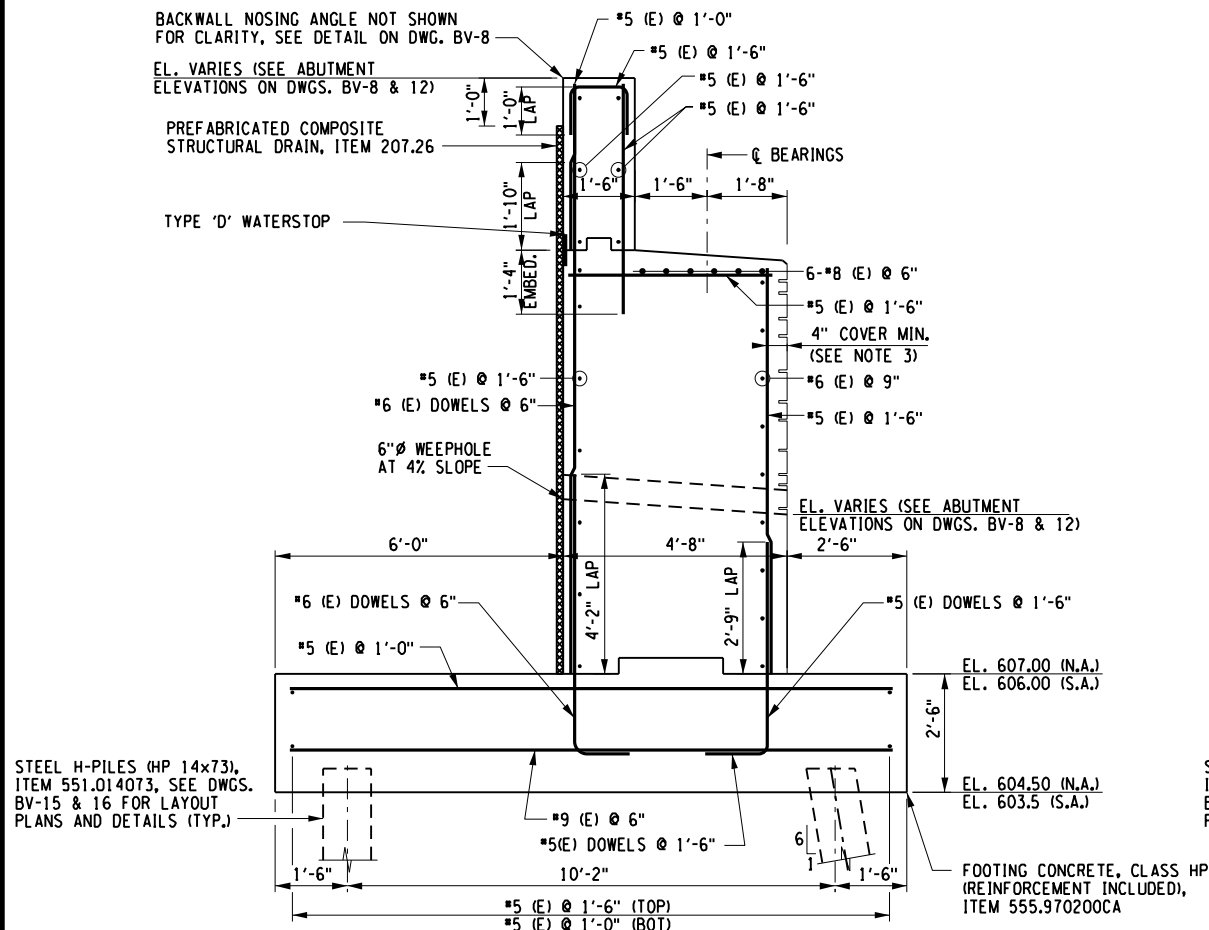
- NOTES:**
1. FOR KEYWAY AND WATERSTOP DETAILS, SEE SHEET BV-13.
 2. FOR ADDITIONAL WINGWALL AND FOOTING DETAILS , SEE DWGS. BV-11 BV-13 AND BV-14.
 3. FOR PEDESTAL DETAILS, SEE DWG. BV-13
 4. ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED 1", UNLESS NOTED OTHERWISE.
 5. FOR PILE LAYOUT AND DETAILS, SEE DWGS. BV-15 AND BV-16.

ULSTER COUNTY		XX	
ASHOKAN RAIL TRAIL		SOUTH ABUTMENT ELEVATION	
BOICEVILLE BRIDGE OVER ESOPUS CREEK		SCALE: AS SHOWN	
ULSTER COUNTY		DATE ISSUED: 1/2018	
		DRAWING BV-12	
Barton & Loguidice, D.P.C.		UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209	
ULSTER COUNTY			

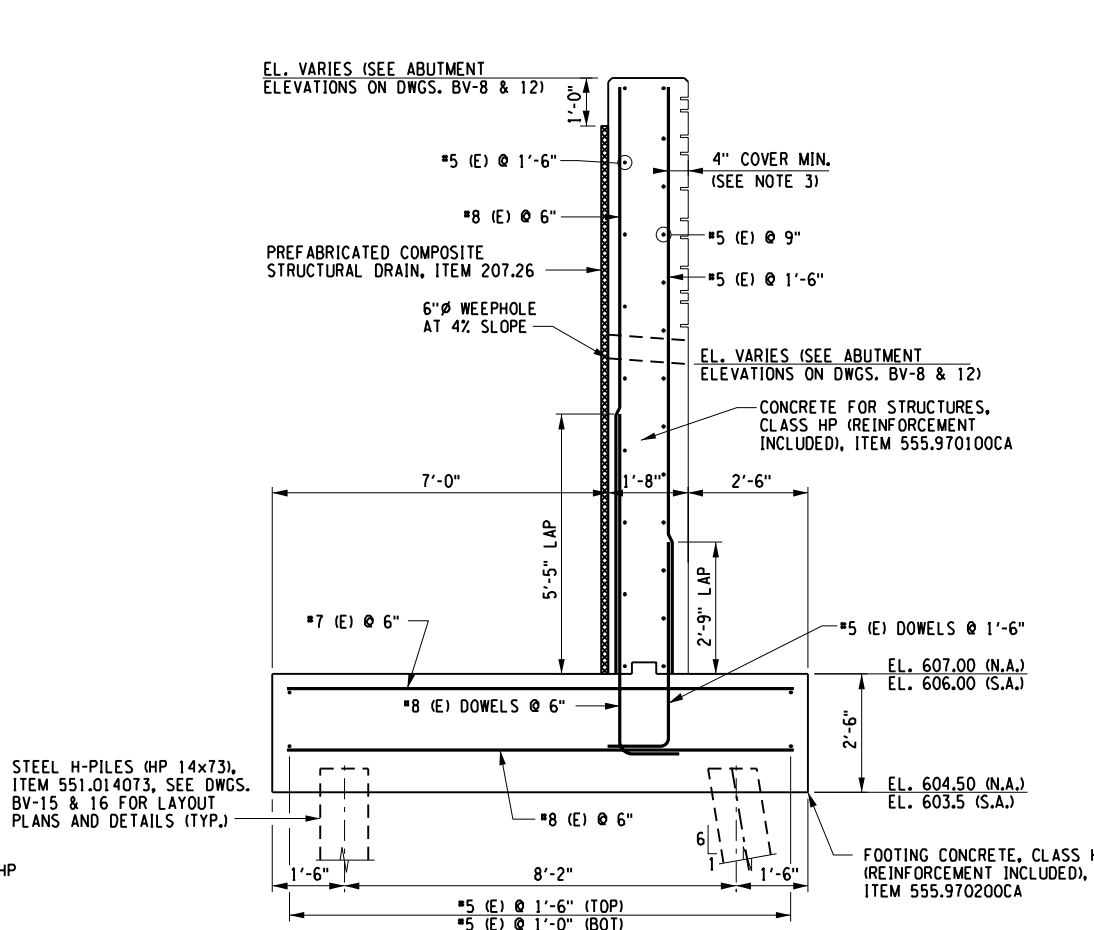
FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\318.369007001 Reinforcement Sections 1.dgn
DATE = 2/19/2018
TIME = 11:10:18 AM

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

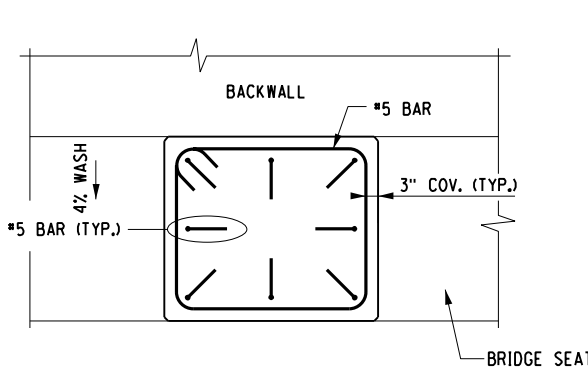
cmh
L:\MicroStation\WorkSpace\Plot\NYSDOT\SITE\NYSDOT_SIZE.B.tbl
L:\MicroStation\WorkSpace\Plot\NYSDOT\NYSDOT.LJ5000.B.04.08.plt



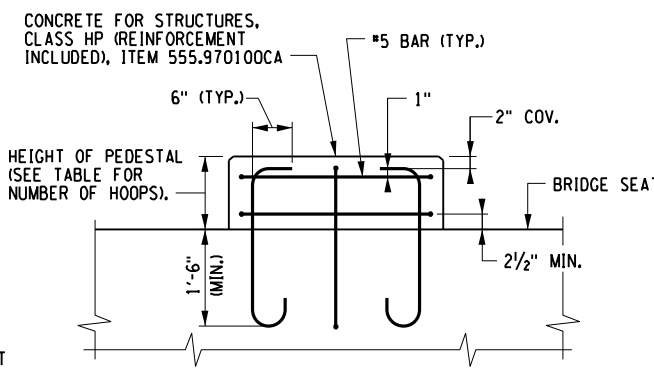
TYPICAL ABUTMENT SECTION A-A
SCALE: 1/4" = 1'-0"



TYPICAL WINGWALL SECTION B-B
SCALE: 1/4" = 1'-0"



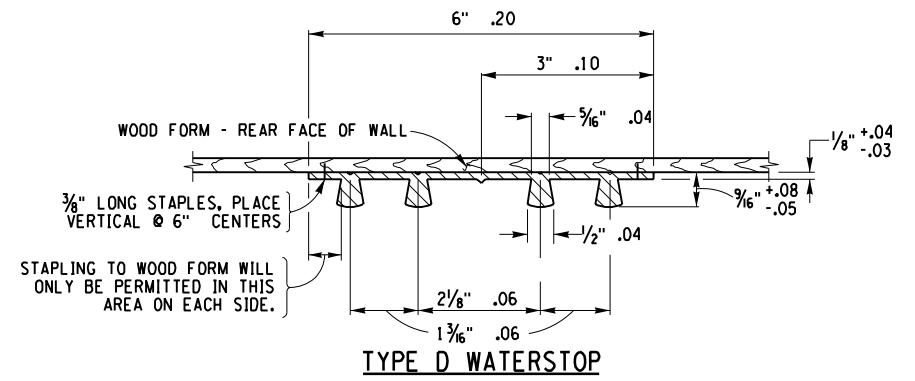
PEDESTAL PLAN
NOT TO SCALE



PEDESTAL ELEVATION
NOT TO SCALE

PEDESTAL HEIGHT	NUMBER OF HOOPS
6" TO 8"	1
8" TO 11"	2
11" TO 14"	3
14" TO 17"	4
17" TO 20"	5

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :



NOTES:

HOLES MUST NOT BE MADE IN WATERSTOP FOR ANY PURPOSE EXCEPT AS REQUIRED FOR STAPLING TO FORMS.

TYPE D WATERSTOP SHALL BE LIGHT GRAY IN COLOR.

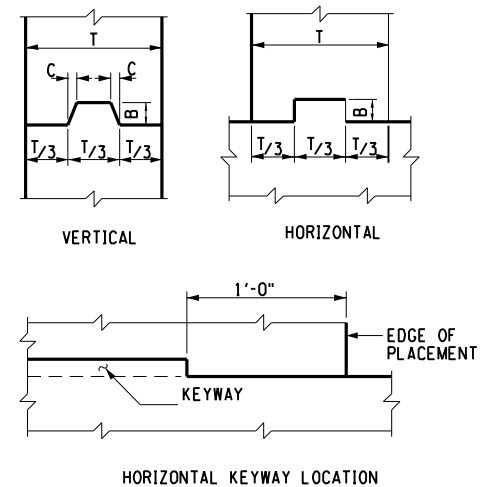
THE COST OF FURNISHING AND PLACING WATERSTOPS SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE CONCRETE ITEMS.

FIELD SPLICES SHOULD BE AVOIDED IF POSSIBLE, HOWEVER, HEAT WELDED BUTT SPLICES WILL BE PERMITTED ON LONG STRAIGHT RUNS (GENERALLY IN EXCESS OF 50 FEET) AT POINTS APPROVED BY THE ENGINEER.

WATERSTOP SHALL BE SHIPPED IN STRAIGHT SECTIONS HAVING A MINIMUM LENGTH OF 10 FEET UNLESS SHORTER LENGTHS ARE REQUIRED.

PREMOULDED RESILIENT JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF N.Y.S. STANDARD SPECIFICATION SUBSECTION 705-07.

PVC USED IN WATERSTOPS SHALL CONFORM TO THE REQUIREMENTS OF N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 705-11.



EXPANSION JOINTS		
C	B	T/3
3/8"	3 1/2"	0 TO 10"
3/4"	5 1/2"	10" AND OVER

CONSTRUCTION & CONTRACTION JOINTS		
C	B	T/3
3/8"	1 1/2"	0 TO 6"
3/8"	3 1/2"	6" TO 10"
3/4"	5 1/2"	10" AND OVER

KEYWAY DETAILS
NTS

NOTE:
REINFORCEMENT AND
WATERSTOPS NOT
SHOWN FOR CLARITY.

- NOTES:
- ALL STEEL REINFORCING BARS SHALL BE ASTM A615, GRADE 60, UNLESS OTHERWISE NOTED.
 - COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3 INCHES UNLESS OTHERWISE NOTED, ALL OTHER COVER SHALL BE 2 INCHES UNLESS OTHERWISE NOTED.
 - 4" REINFORCEMENT COVER BASED ON A 2" REVEAL OF THE FORMLINER PATTERN. IF THE ACTUAL FORMLINER USED HAS A MAXIMUM REVEAL GREATER THAN 2", THE CONTRACTOR SHALL ADJUST THE WALL THICKNESS ACCORDINGLY TO MAINTAIN A MINIMUM REINFORCEMENT COVER OF 2" TO THE FORMLINER REVEAL. SEE DWG. GBN-1 FOR ADDITIONAL FORM LINER NOTES.
 - ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1 INCH UNLESS OTHERWISE NOTED.
 - (E) DENOTES EPOXY COATED BARS.

XX

NO. DATE BY REVISION

Barton & Loguidice, D.P.C.

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

ULSTER COUNTY

TYPICAL REINFORCEMENT DETAILS - 1

SCALE: AS SHOWN

DATE ISSUED: 1/2018

DRAWING
BV-13

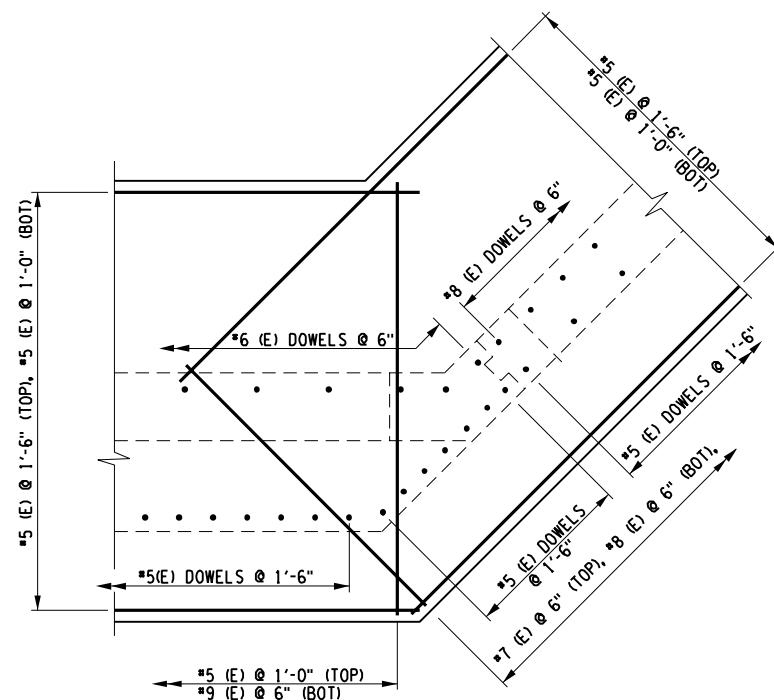
CHECKED BY

DRAFTED BY

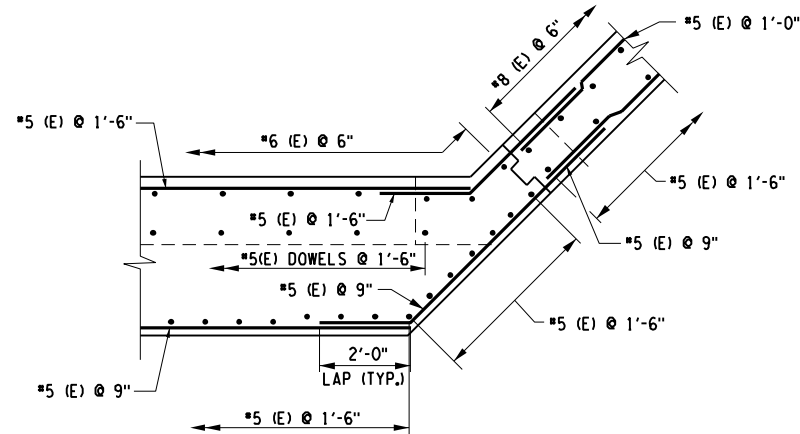
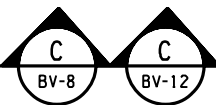
CHECKED BY

DESIGNED BY

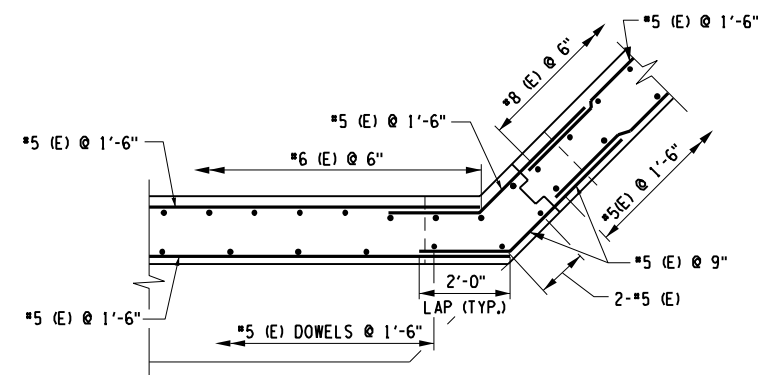
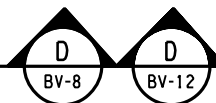
IN CHARGE OF



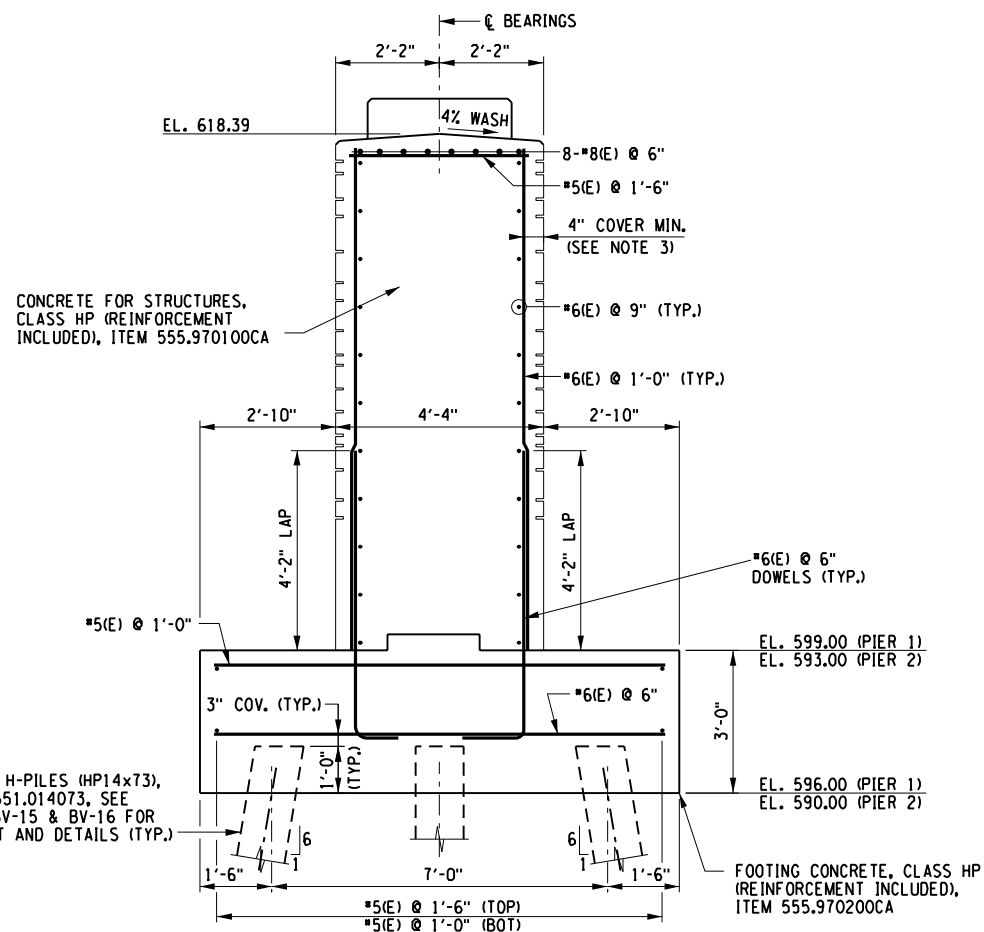
TYPICAL CORNER SECTION
(N.E. CORNER SHOWN, OTHERS SIMILAR)
N.T.S.



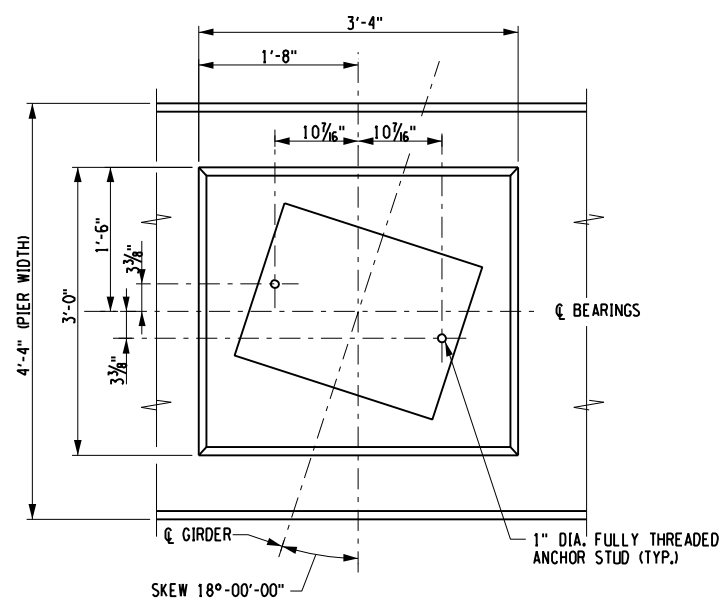
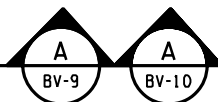
TYPICAL CORNER SECTION
(N.E. CORNER SHOWN, OTHERS SIMILAR)
N.T.S.



TYPICAL CORNER SECTION
(N.E. CORNER SHOWN, OTHERS SIMILAR)
N.T.S.



TYPICAL PIER SECTION
SCALE: 1/4" = 1'-0"



TYPICAL PIER ANCHOR BOLT LAYOUT
SCALE: 1/2" = 1'-0"

NOTES:

1. ALL STEEL REINFORCING BARS SHALL BE ASTM A615, GRADE 60, UNLESS OTHERWISE NOTED.
2. COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3 INCHES UNLESS OTHERWISE NOTED. ALL OTHER COVER SHALL BE 2 INCHES UNLESS OTHERWISE NOTED.
3. 4" REINFORCEMENT COVER BASED ON A 2" REVEAL OF THE FORMLINER PATTERN. IF THE ACTUAL FORMLINER USED HAS A MAXIMUM REVEAL GREATER THAN 2", THE CONTRACTOR SHALL ADJUST THE WALL THICKNESS ACCORDINGLY TO MAINTAIN A MINIMUM REINFORCEMENT COVER OF 2" TO THE FORMLINER REVEAL. SEE DWG. GBN-1 FOR ADDITIONAL FORM LINER NOTES.
4. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1 INCH UNLESS OTHERWISE NOTED.
5. (E) DENOTES EPOXY COATED BARS.

NO.	DATE	BY	REVISION
-----	------	----	----------

XX

Barton
& Loguidice, D.P.C.

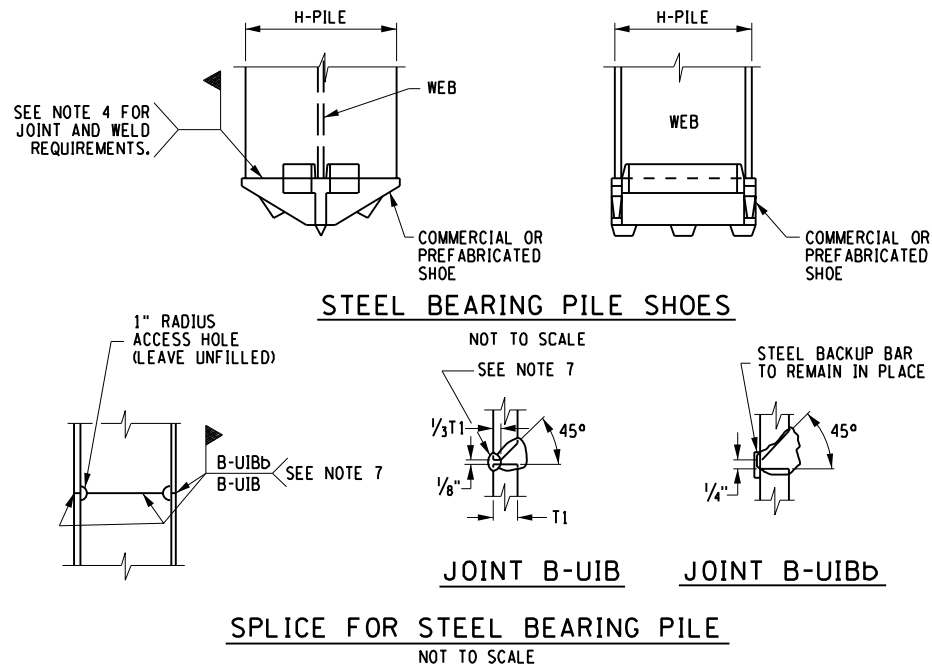
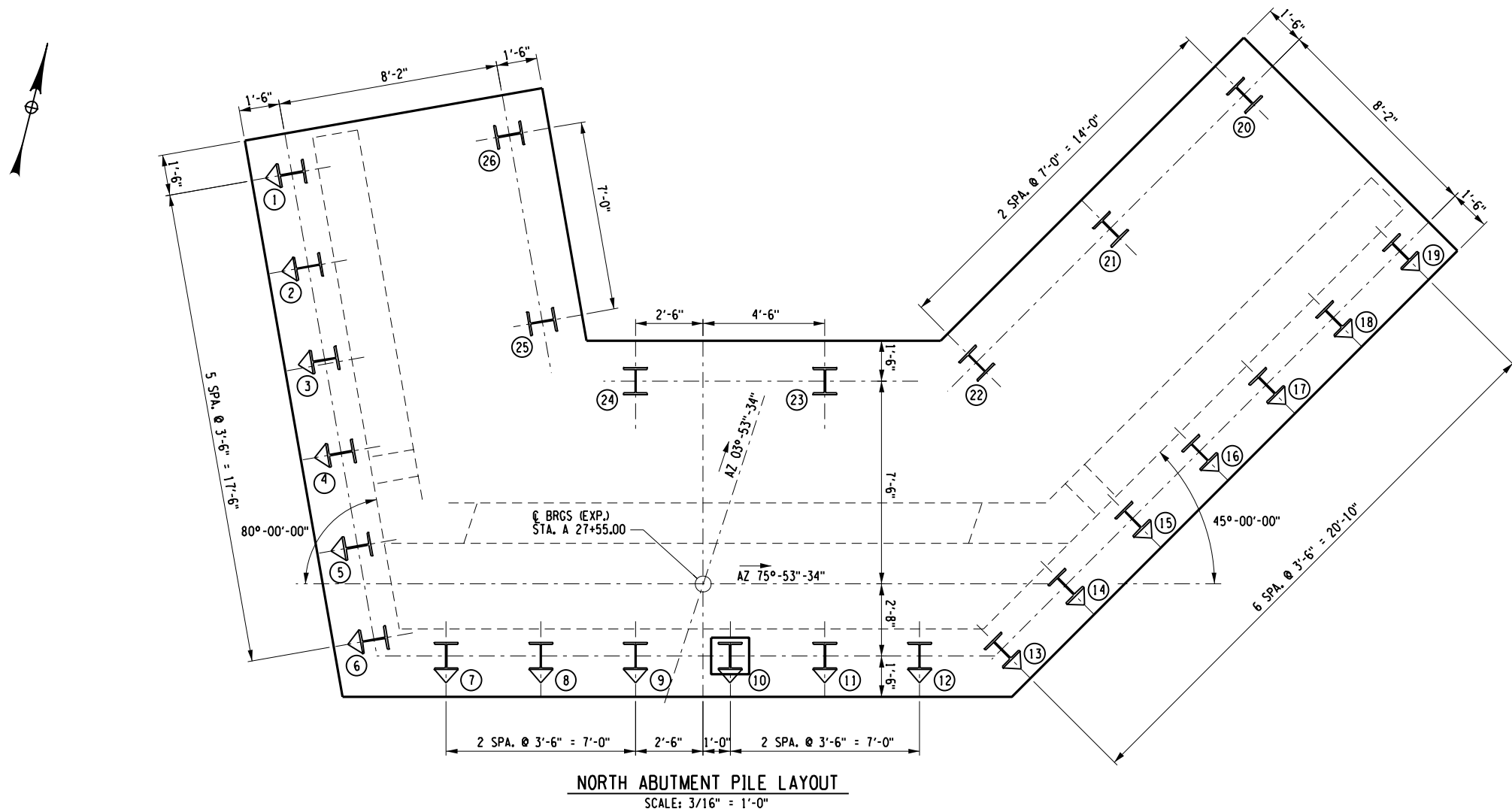
UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL

WILSON COUNTY

TYPICAL
REINFORCEMENT
DETAILS - 2





SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BV-14



PILE SHOE AND SPLICE NOTES:

1. COMMERCIAL OR PREFABRICATED SHOES ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.
2. THE SHOE SHALL BE ATTACHED BY A NYSDOT CERTIFIED WELDER.
3. A "WELDING PROCEDURE SPECIFICATION" (WPS) APPROVED BY THE ENGINEER IS REQUIRED.
4. THE SHOE WELD JOINT DESIGN SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION, AND AS SHOWN ON THE APPROVED WPS.
5. IF SHOES ARE WELDED AT A LOCATION OTHER THAN THE PROJECT SITE, ALL OF THE ABOVE PROVISIONS SHALL APPLY TO THE OFFSITE FABRICATOR. THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR OF THE ACTUAL LOCATION WHERE THE WELDING WILL BE PERFORMED A MINIMUM OF 5 WORKING DAYS BEFORE WORK COMMENCES.
6. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN CONFORMANCE WITH REQUIREMENTS FOR WELDING SPECIFIED IN THE N.Y.S. STEEL CONSTRUCTION MANUAL.
7. EITHER JOINT MAY BE USED AT CONTRACTOR'S OPTION.
8. B-UJB: AIR CARBON ARC GOUGE TO SOUND WELD METAL PRIOR TO WELDING THE SECOND SIDE. THE GOUGE SHALL HAVE A 1/4" MINIMUM RADIUS AT THE ROOT WITH THE TOP SLOPED BACK AT 45° MINIMUM.

PILE LEGEND:

-  - INDICATES HP14x73 STEEL BEARING PILE, ITEM 551.014073
-  - INDICATES 1:6 BATTERED HP14x73 STEEL BEARING PILE, ITEM 551.014073
-  - DYNAMIC PILE LOAD TESTING, ITEM 551.14
-  - INDICATES PILE NUMBER

PILE TABLE	
NORTH ABUTMENT	
PILE NO.	LENGTH BELOW CUT-OFF (F.T.)
1	33'-0"
2	33'-0"
3	33'-0"
4	33'-0"
5	33'-0"
6	33'-0"
7	33'-0"
8	33'-0"
9	33'-0"
10	33'-0"
11	33'-0"
12	33'-0"
13	33'-0"
14	33'-0"
15	33'-0"
16	33'-0"
17	33'-0"
18	33'-0"
19	33'-0"
20	33'-0"
21	33'-0"
22	33'-0"
23	33'-0"
24	33'-0"
25	33'-0"
26	33'-0"

Barton
& Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

**NORTH ABUTMENT
PILE PLAN
AND DETAILS**

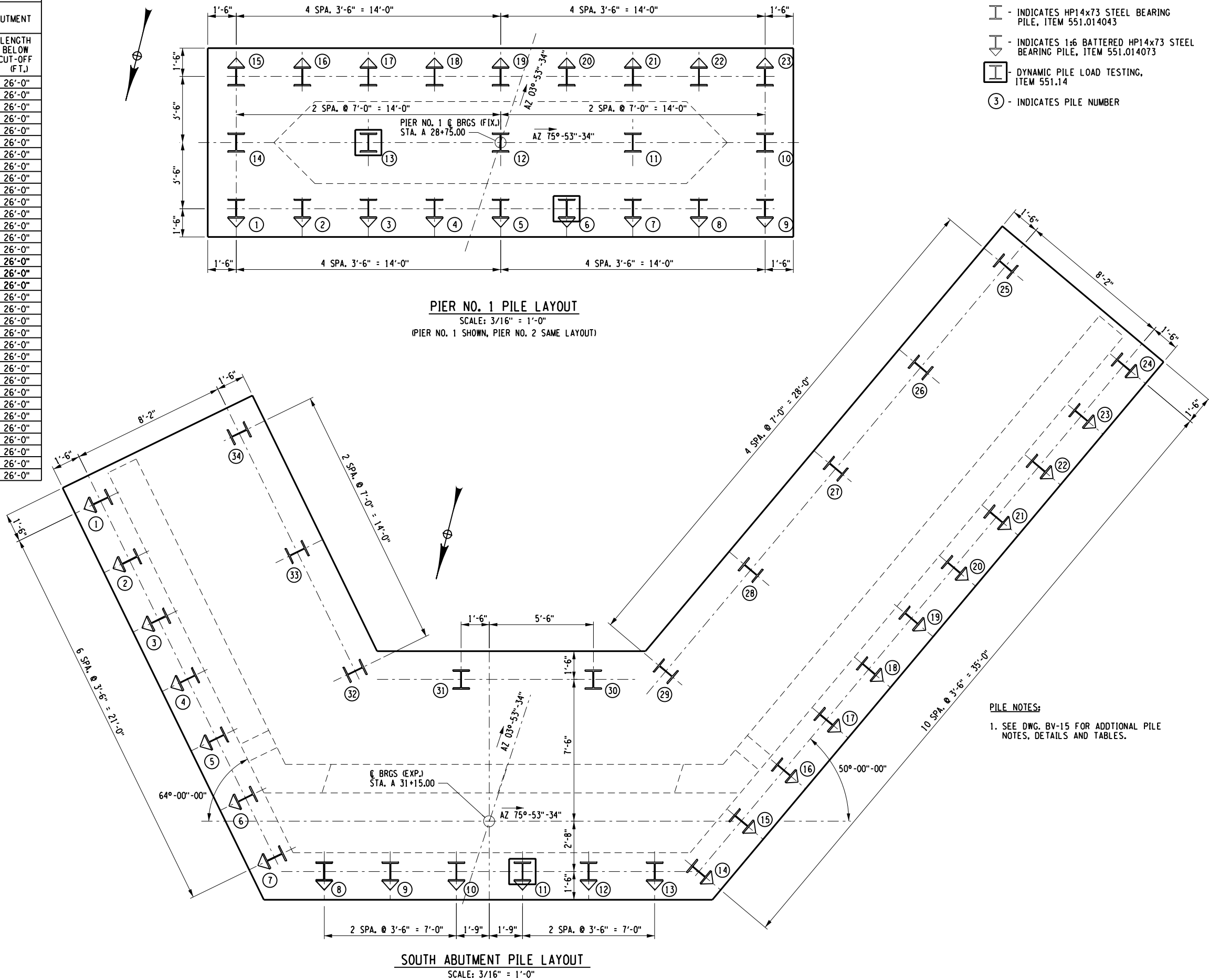
SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BV-15

XX

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

PILE TABLE					
PIER NO. 1		PIER NO. 2		SOUTH ABUTMENT	
PILE NO.	LENGTH BELOW CUT-OFF (FT.)	PILE NO.	LENGTH BELOW CUT-OFF (FT.)	PILE NO.	LENGTH BELOW CUT-OFF (FT.)
1	32'-0"	1	27'-0"	1	26'-0"
2	32'-0"	2	27'-0"	2	26'-0"
3	32'-0"	3	27'-0"	3	26'-0"
4	32'-0"	4	27'-0"	4	26'-0"
5	32'-0"	5	27'-0"	5	26'-0"
6	32'-0"	6	27'-0"	6	26'-0"
7	32'-0"	7	27'-0"	7	26'-0"
8	32'-0"	8	27'-0"	8	26'-0"
9	32'-0"	9	27'-0"	9	26'-0"
10	32'-0"	10	27'-0"	10	26'-0"
11	32'-0"	11	27'-0"	11	26'-0"
12	32'-0"	12	27'-0"	12	26'-0"
13	32'-0"	13	27'-0"	13	26'-0"
14	32'-0"	14	27'-0"	14	26'-0"
15	32'-0"	15	27'-0"	15	26'-0"
16	32'-0"	16	27'-0"	16	26'-0"
17	32'-0"	17	27'-0"	17	26'-0"
18	32'-0"	18	27'-0"	18	26'-0"
19	32'-0"	19	27'-0"	19	26'-0"
20	32'-0"	20	27'-0"	20	26'-0"
21	32'-0"	21	27'-0"	21	26'-0"
22	32'-0"	22	27'-0"	22	26'-0"
23	32'-0"	23	27'-0"	23	26'-0"
-	-	-	-	24	26'-0"
-	-	-	-	25	26'-0"
-	-	-	-	26	26'-0"
-	-	-	-	27	26'-0"
-	-	-	-	28	26'-0"
-	-	-	-	29	26'-0"
-	-	-	-	30	26'-0"
-	-	-	-	31	26'-0"
-	-	-	-	32	26'-0"
-	-	-	-	33	26'-0"
-	-	-	-	34	26'-0"

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

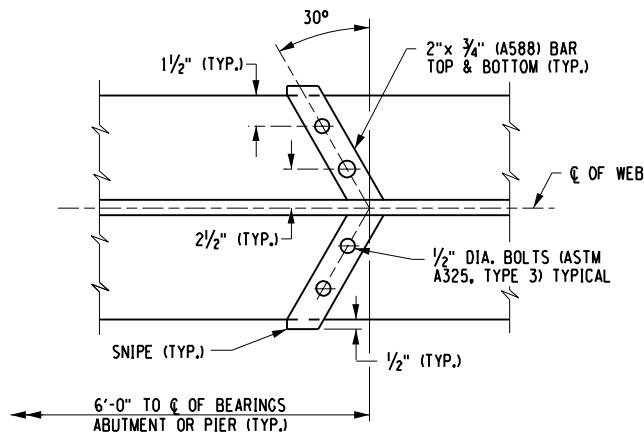
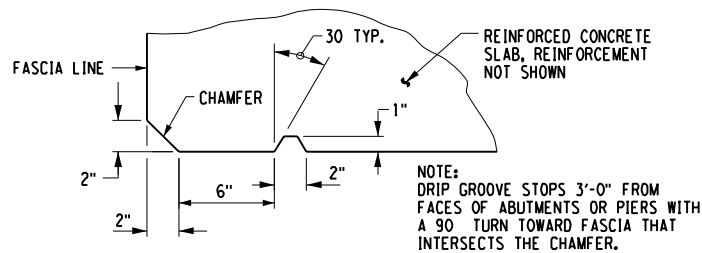
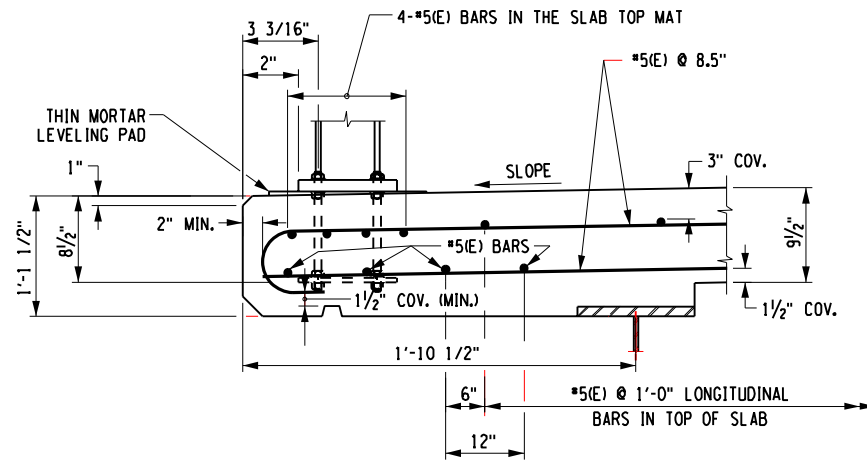
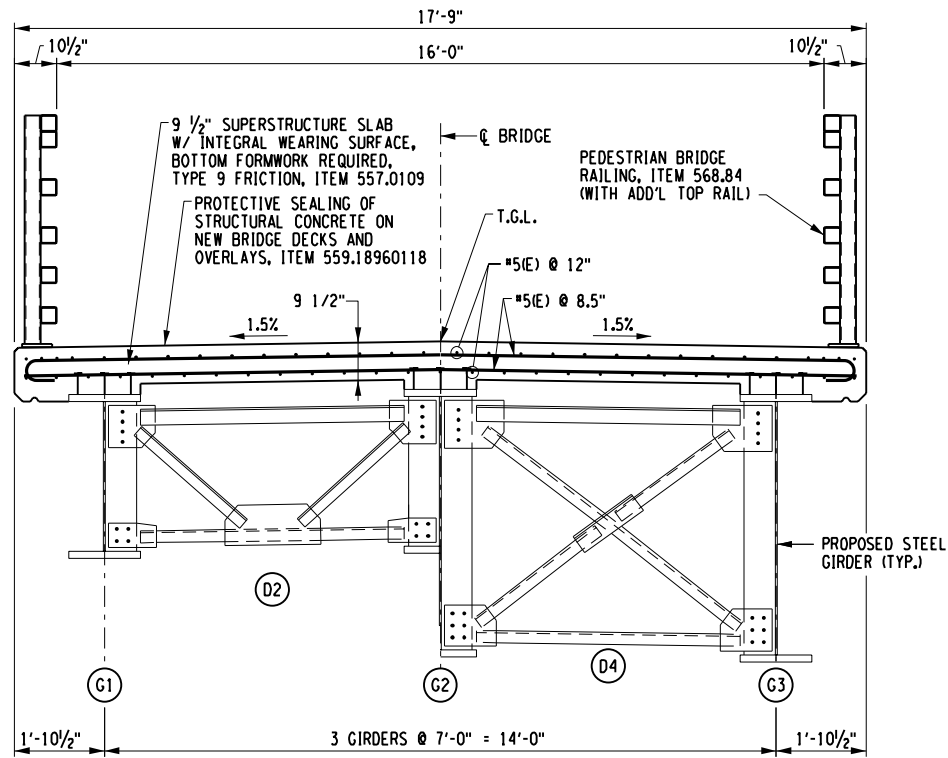
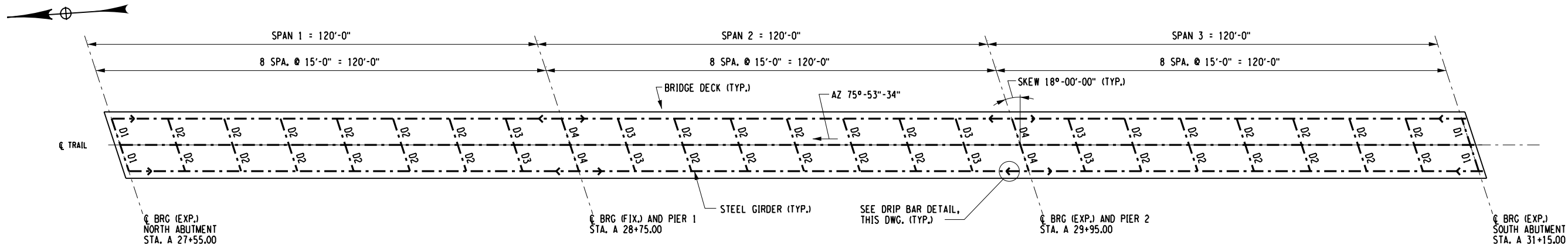


XX	
NO.	DATE
BY	REVISION
Barton & Loguidice, D.P.C.	
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209	
ASHOKAN RAIL TRAIL	ULSTER COUNTY
BOICEVILLE BRIDGE OVER ESOPUS CREEK	
SOUTH ABUTMENT AND PIER PLANS AND DETAILS	
SCALE: AS SHOWN	
DATE ISSUED: 1/2018	
DRAWING BV-16	

FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\327_369007001 TransSect.dgn
DATE = 2/19/2018
TIME = 11:10:33 AM

cmh
L:\MicroStation\workspace\Plot\NYSOOT\NYSOOT SITE.B.tbl
L:\MicroStation\workspace\Plot\NYSOOT\NYSOOT.LJ5000.B.04.08.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



NOTES:

1. CONNECTIONS SHALL BE MADE ACCORDING TO THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
2. UNLESS OTHERWISE INDICATED, BOLTED CONNECTIONS SHALL BE MADE WITH 7/8" DIA., A325, TYPE 3 HIGH-STRENGTH BOLTS.
3. THE CONTRACTOR MAY PLACE DIAPHRAGMS ON EITHER SIDE OF THE BEARING STIFFENERS OR CONNECTION PLATES AS NECESSARY TO CORRECT ALIGNMENT PROVIDED THERE WILL BE NO INTERFERENCE WITH OTHER STRUCTURAL DETAILS.
4. ALL BOLT HEADS SHALL BE PLACED ON THE TOP SIDE OF CONNECTIONS UNLESS OTHERWISE NOTED.
5. THE ENDS OF ALL GIRDERS AND BEARING STIFFENERS SHALL BE VERTICAL. THE CONNECTION PLATES SHALL BE PERPENDICULAR TO THE TOP FLANGES.
6. TAPERED OR FLAT SHIM PLATES MAY BE USED IN THE CONNECTION BETWEEN SKEWED DIAPHRAGMS AND THE BEARING STIFFENERS, STIFFENER CONNECTION PLATES OR GUSSET PLATES. VARIABLE THICKNESSES OF SHIM PLATES MAY BE USED. THE MINIMUM THICKNESS OF SHIM PLATE SHALL BE 1/8" WITH A MAXIMUM NUMBER OF THREE SHIM PLATES PERMITTED AT ANY CONNECTION. THE TOTAL THICKNESS OF ALL SHIM PLATES USED AT ANY CONNECTION SHALL NOT EXCEED 1". SHIM PLATES SHALL HAVE THE DIMENSIONS OF THE FAYING SURFACE. SHIM PLATES SHALL CONFORM TO ASTM DESIGNATION A709 FOR STEEL APPLICATIONS. NO ADDITIONAL PAYMENT WILL BE MADE FOR FURNISHING AND PLACING THE SHIM PLATES.
7. DIAPHRAGM MEMBERS SHALL BE BLOCKED AS SHOWN, WITH THEIR FLANGE CUT BACK ON ONE SIDE, AND CHIPPED OR GROUND FLUSH. IN LIEU OF BLOCKING THE DIAPHRAGM MEMBER, THE FABRICATOR SHALL HAVE THE OPTION OF COPING THE FLANGE.
8. THE CONTRACTOR SHALL PROVIDE FOR THE STABILITY OF STRUCTURAL STEEL DURING ALL PHASES OF ERECTION AND CONSTRUCTION, AS PROVIDED IN SUBSECTION 204 OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM). THE GIRDERS ON THIS BRIDGE SHALL BE STABILIZED DURING ERECTION BY USE OF FALSEWORK, TEMPORARY BRACING, COMPRESSION FLANGE STIFFENING TRUSSES, CHOOSING ALTERNATE PICKING POINTS, OR BY USE OF A HOLDING CRANE UNTIL A SUFFICIENT NUMBER OF GIRDERS HAVE BEEN ERECTED AND CROSS FRAMES INSTALLED. THE METHODS USED BY THE CONTRACTOR SHALL BE DOCUMENTED ON THE ERECTION DRAWINGS WITH ALL SUPPORTING STABILITY CALCULATIONS SUBMITTED AND STAMPED BY A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER.
9. SEE DWG. BV-19 FOR DIAPHRAGM DETAILS. MAKE NOTE THAT INTERMEDIATE DIAPHRAGMS ARE ATTACHED TO CONNECTION PLATES AND ARE PLACED PERPENDICULAR TO THE CENTERLINE OF THE ROAD WHILE END DIAPHRAGMS ARE CONNECTED TO BEARING STIFFENERS AND ARE PLACED PARALLEL TO THE CENTERLINE OF BEARINGS.



Barton & Loguidice, D.P.C.

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

TRANSVERSE
BRIDGE SECTION
AND
FRAMING PLAN

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BV-17

NO. DATE BY REVISION

XX

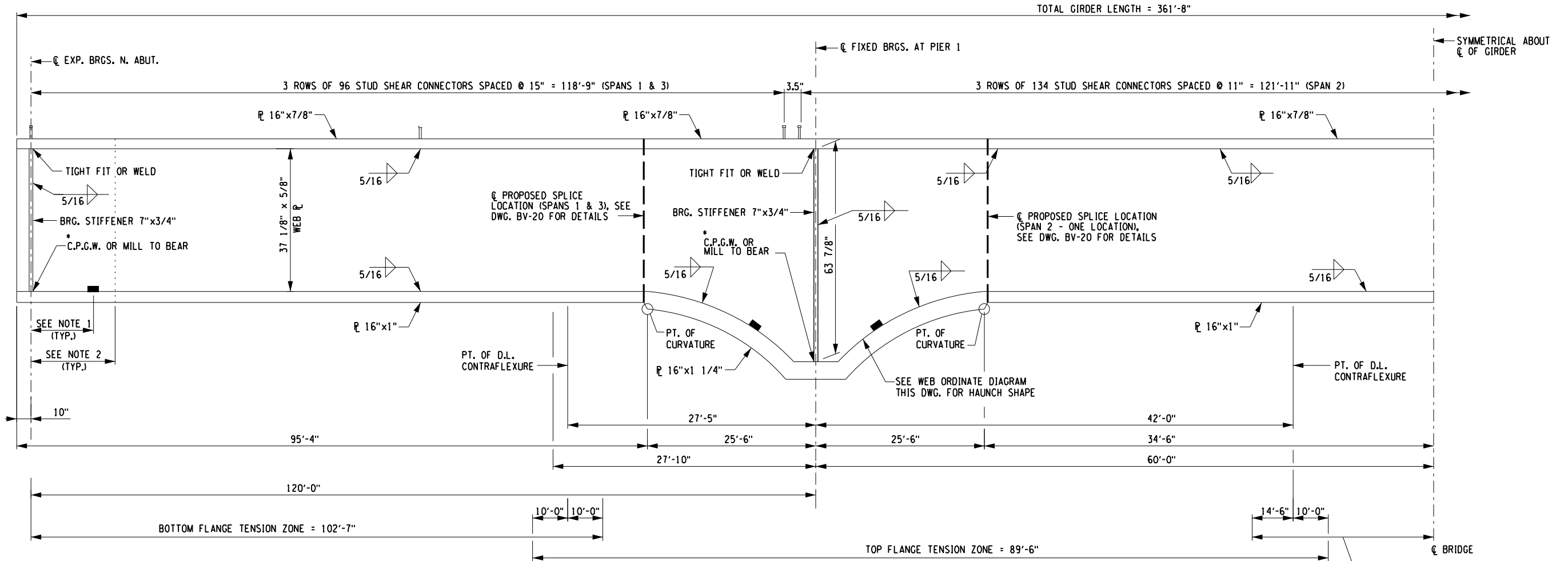
UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ULSTER COUNTY

FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\329_369007001 Girder Details 1.dgn
DATE = 2/19/2018
TIME = 11:10:37 AM

cmh
L:\MicroStationWorkspace\Plot\NYSOOT\SITE NYSOOT_SIZE.B.tbl
L:\MicroStationWorkspace\Plot\NYSOOT\NYSOOT.LJ5000.B.04.00.plt

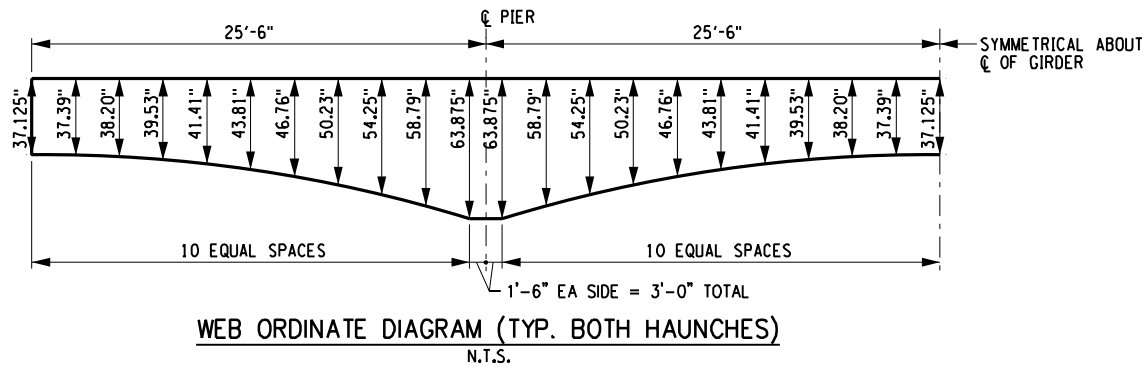
IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



GIRDER ELEVATION

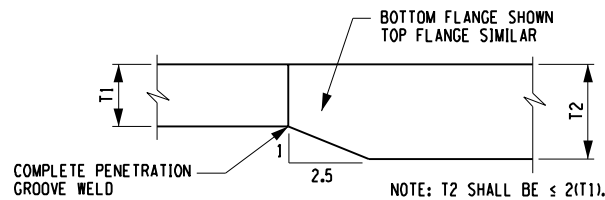
N.T.S.

* C.P.G.W.-COMPLETE PENETRATION GROOVE WELD



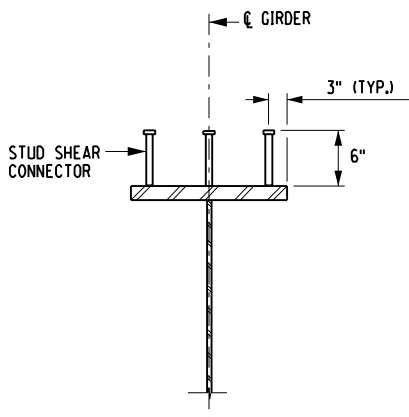
WEB ORDINATE DIAGRAM (TYP. BOTH HAUNCHES)

N.T.S.



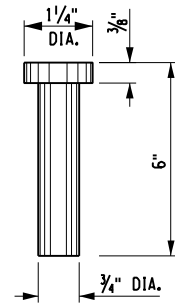
FLANGE THICKNESS TAPER

N.T.S.



STUD SHEAR CONNECTOR DETAIL

NOT TO SCALE



STUD DETAIL

NOT TO SCALE

GIRDER NOTES:

1. DRIP BAR LOCATE 6' FROM C. BEARINGS AT ABUTMENTS AND PIERS, SEE DETAIL ON DWG. BV-17.
2. PAINTING LIMITS FROM C. OF BEAINGS IS 7'-0" AT ABUTMENTS AND 9'-0" AT PIERS, SEE PAINTING NOTES ON DWG. GBN-1.



Barton & Loguidice, D.P.C.

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

GIRDER
DETAILS - 1

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BV-18

NO. DATE BY REVISION

XX

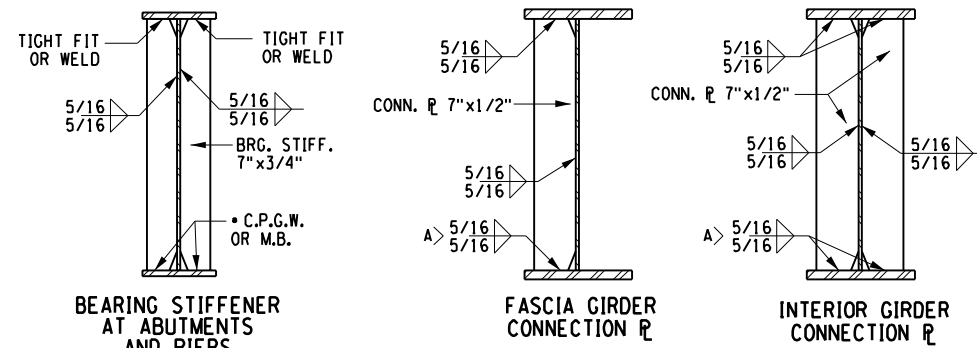
CHECKED BY

DRAFTED BY

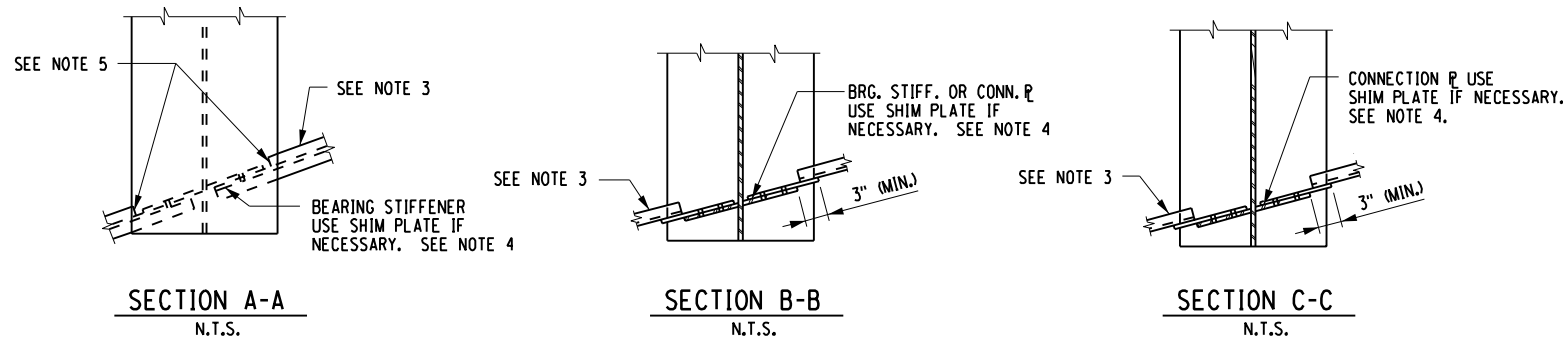
CHECKED BY

DESIGNED BY

IN CHARGE OF



GIRDER SECTIONS
N.T.S.



SECTION A-A
N.T.S.

SECTION B-B
N.T.S.

SECTION C-C
N.T.S.

NOTES:

- C.P.G.W. = COMPLETE PENETRATION GROOVE WELD
- M.B. = MILL TO BEAR

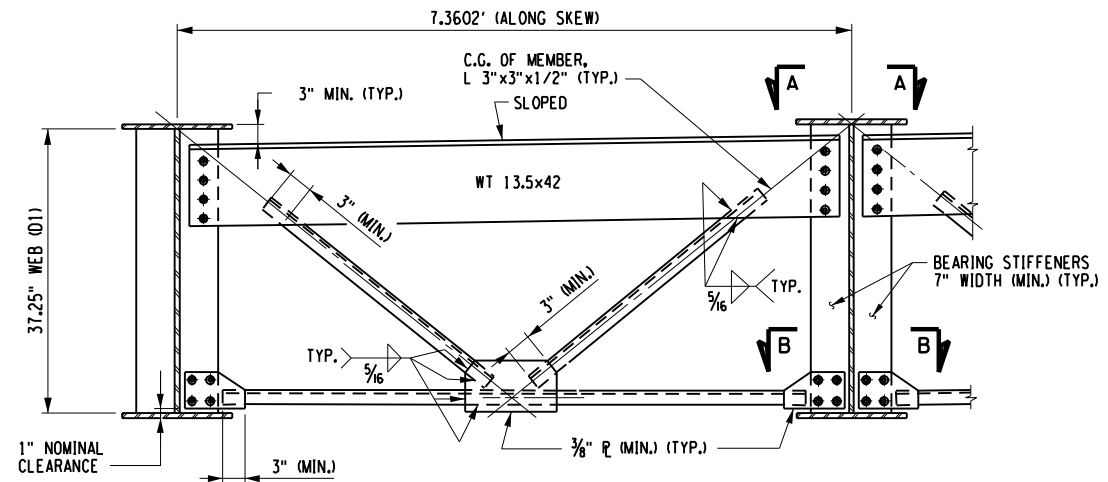
NO WELDING SHALL BE ALLOWED WITHIN THE TENSION ZONES SHOWN UNLESS SPECIFICALLY NOTED. THE ATTACHMENT OF FORMING DEVICES OR OTHER CONSTRUCTION AIDS BY WELDING WITHIN THE TENSION AREA SHOWN IS PROHIBITED.

THE ENDS OF ALL GIRDERS AND THE BEARING STIFFENERS SHALL BE VERTICAL. ALL CONNECTION PLATES AND INTERMEDIATE STIFFENERS MAY BE PERPENDICULAR TO THE TOP FLANGES.

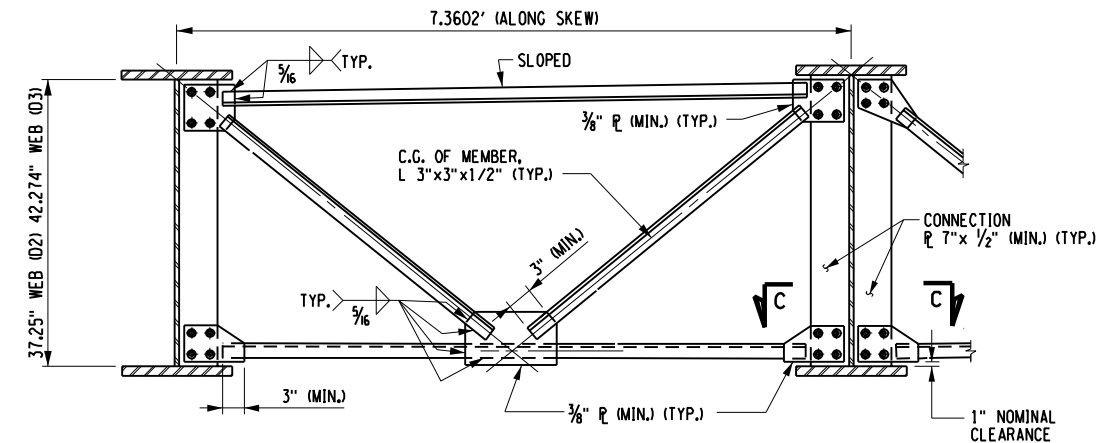
NOTES:

1. CONNECTIONS SHALL BE MADE ACCORDING TO THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
2. UNLESS OTHERWISE INDICATED, BOLTED CONNECTIONS SHALL BE MADE WITH $\frac{1}{8}$ " DIA. A325 HIGH-STRENGTH BOLTS.
3. THE CONTRACTOR MAY PLACE DIAPHRAGMS ON EITHER SIDE OF THE BEARING STIFFENERS OR CONNECTION PLATES AS NECESSARY TO CORRECT ALIGNMENT PROVIDED THERE WILL BE NO INTERFERENCE WITH OTHER STRUCTURAL DETAILS.
4. TAPERED OR FLAT SHIM PLATES MAY BE USED IN THE CONNECTION BETWEEN SKEWED DIAPHRAGMS AND THE BEARING STIFFENERS. STIFFENER CONNECTION PLATES OR CUSSET PLATES, VARIABLE THICKNESSES OF SHIM PLATES MAY BE USED, THE MINIMUM THICKNESS OF SHIM PLATE SHALL BE $\frac{1}{8}$ " WITH A MAXIMUM NUMBER OF THREE SHIM PLATES PERMITTED AT ANY CONNECTION. THE TOTAL THICKNESS OF ALL SHIM PLATES USED AT ANY CONNECTION SHALL NOT EXCEED 1". SHIM PLATES SHALL HAVE THE DIMENSIONS OF THE FAYING SURFACE. THE SHIM MATERIAL SHALL CONFORM TO ASTM DESIGNATION A588 FOR WEATHERING STEEL APPLICATIONS. NO ADDITIONAL PAYMENT WILL BE MADE FOR FURNISHING AND PLACING THE SHIM PLATES.
5. DIAPHRAGM MEMBERS SHALL BE BLOCKED AS SHOWN, WITH THEIR FLANGE CUT BACK ON ONE SIDE, AND CHIPPED OR GROUND FLUSH. IN LIEU OF BLOCKING THE DIAPHRAGM MEMBER, THE FABRICATOR SHALL HAVE THE OPTION OF COPING THE FLANGE.
6. IN ORDER TO MAXIMIZE THE DISTANCE BETWEEN THE OUTSTANDING LEG OF THE TOP STRUT AND THE BOTTOM OF THE STRUCTURAL SLAB, THIS STRUT SHALL BE ORIENTED AS SHOWN. IN ADDITION, ON STRUCTURES WITH STRAIGHT BEAMS OR GIRDERS, THE POSITION OF THIS STRUT SHALL BE LOWERED TO THE EXTENT THAT IT DOES NOT INTERFERE WITH THE ALIGNMENT OF THE DIAGONAL STRUTS AS SHOWN).
7. FOR LONGITUDINAL JOINTS IN THE SLAB, E. G. CLOSURE POURS, ONLY ONE SIDE OF THE INTERMEDIATE DIAPHRAGMS UNDER THE JOINT SHALL BE CONNECTED WHEN ERECTED, AFTER ALL PORTIONS OF THE SLAB HAVE BEEN POURED AND SET TO THE SATISFACTION OF THE ENGINEER, THE OTHER SIDE OF THE DIAPHRAGMS SHALL BE CONNECTED.
8. ALL BOLT HEADS SHALL BE PLACED ON THE TOP SIDE OF CONNECTIONS UNLESS OTHERWISE NOTED.

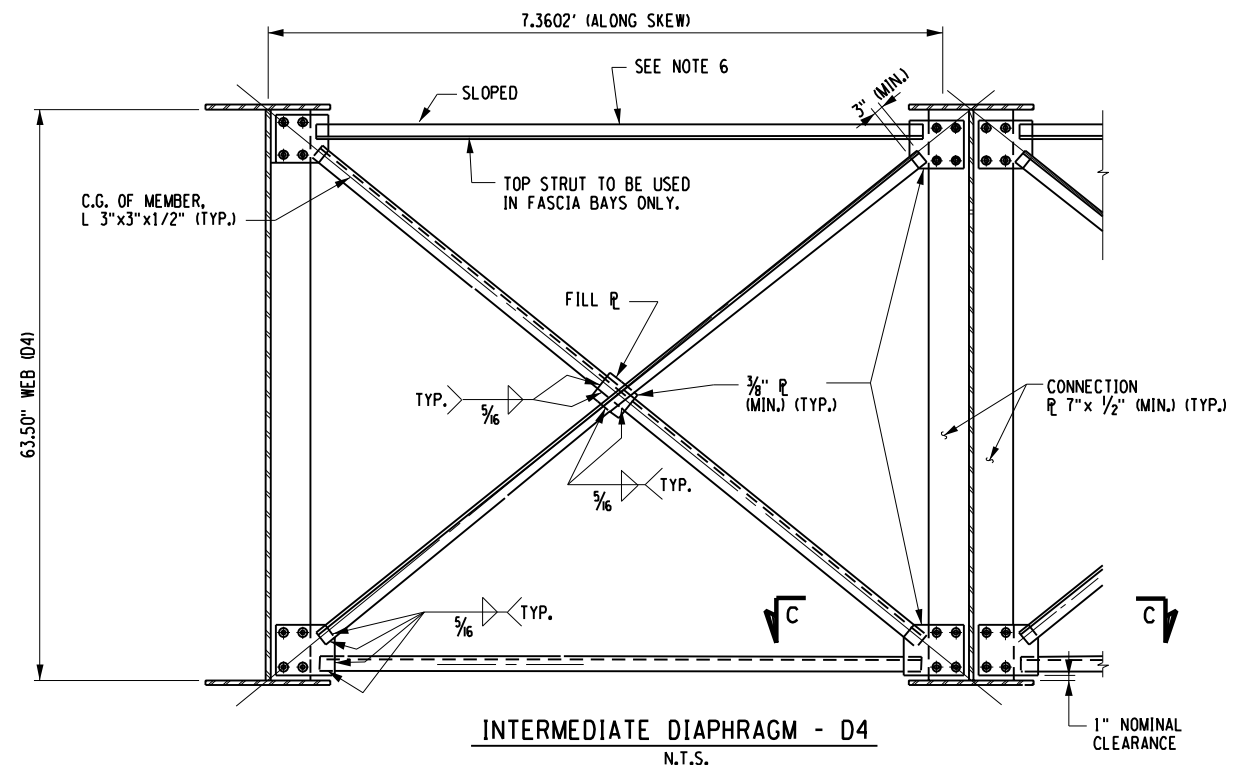
PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :



END DIAPHRAGM - D1
N.T.S.



INTERMEDIATE DIAPHRAGMS D2 AND D3
N.T.S.



INTERMEDIATE DIAPHRAGM - D4
N.T.S.

NO.	DATE	BY	REVISION



Barton
& Loguidice, D.P.C.

**DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209**

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

ULSTER COUNTY

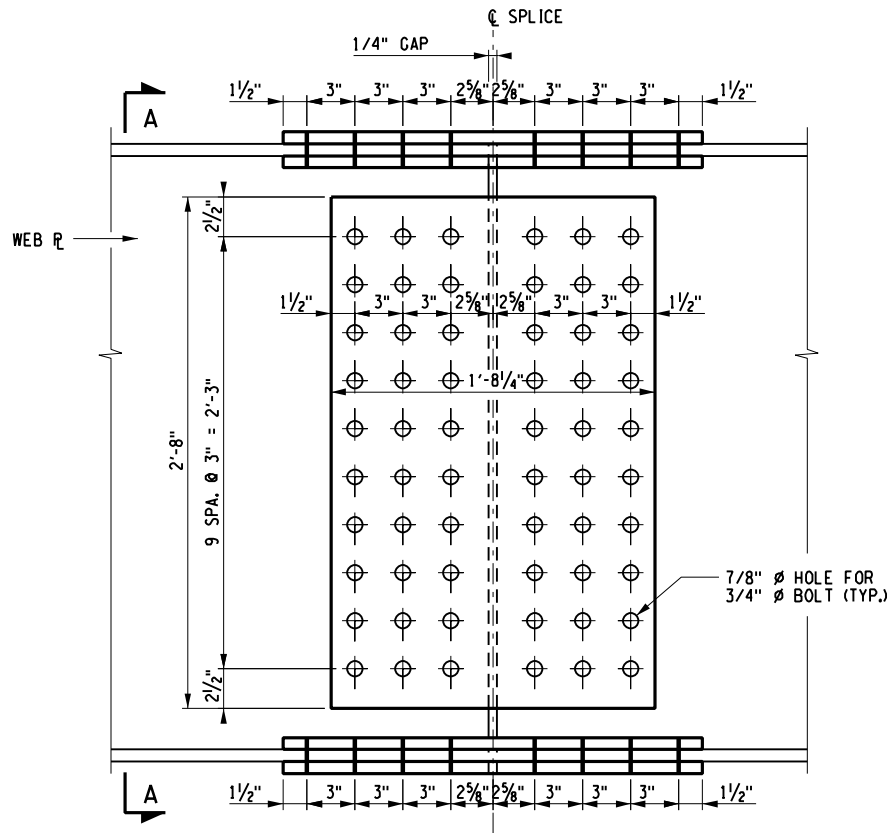
GIRDER
DETAILS - 2

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BV-19

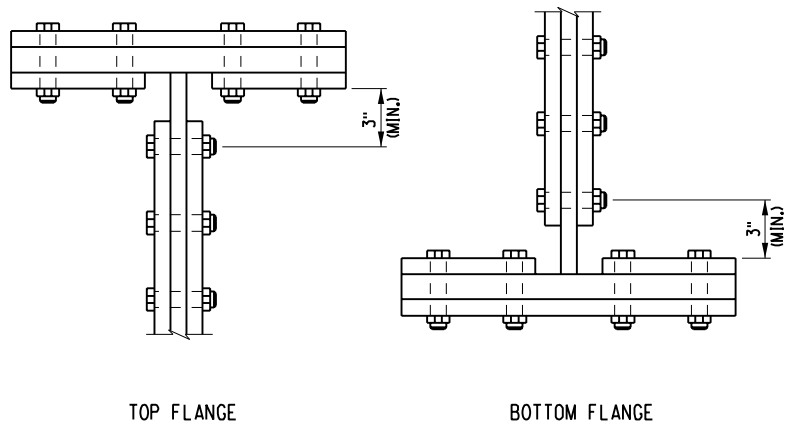
FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\331.369\07001 Girder Details 3.dgn
DATE = 2/19/2018
TIME = 11:10:43 AM

cmh
L:\MicroStation\Workspace\Plot\NYSOOT\SITE\NYSOOT_SIZE.B.tbl
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT.LJ5000.B.04.008.plt

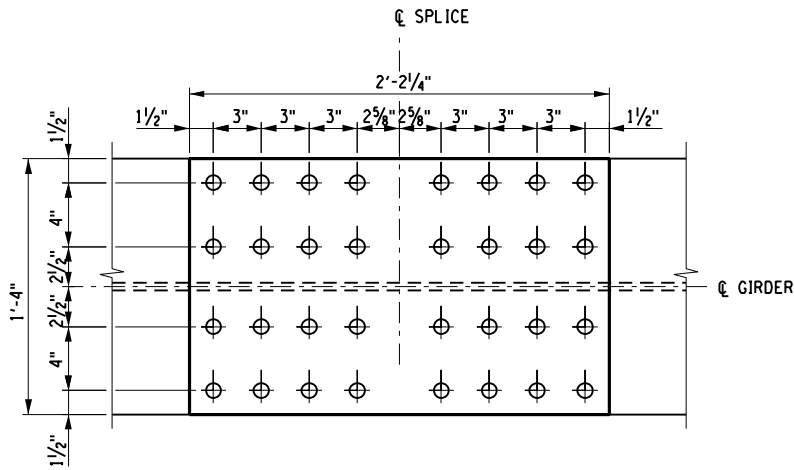
IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



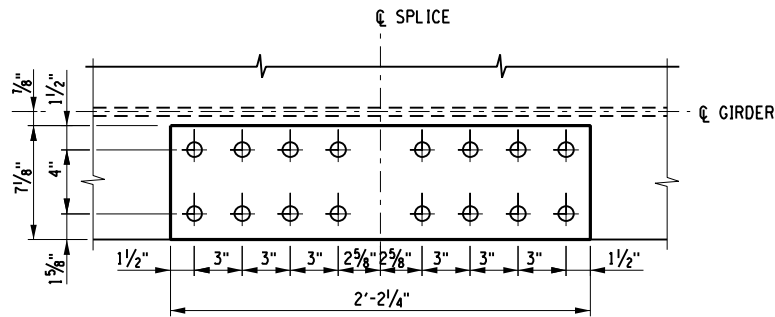
WEB SPLICE DETAIL
SCALE: 1" = 1'-0"



BOLT CLEARANCE DETAIL
N.T.S.

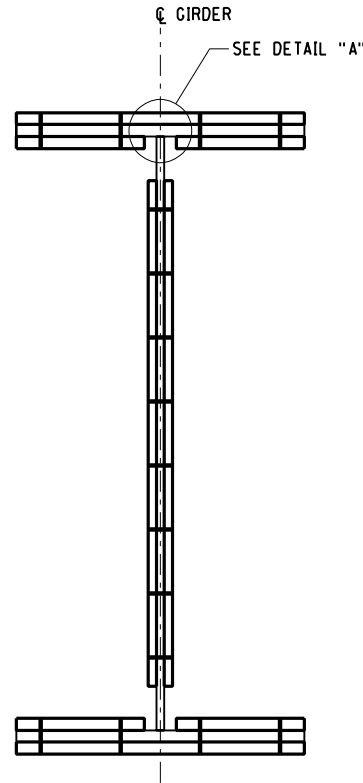
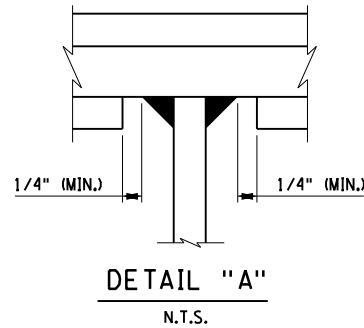


TOP & BOTTOM FLANGE - EXTERIOR SPLICE DETAIL
SCALE: 1" = 1'-0"



TOP & BOTTOM FLANGE - INTERIOR SPLICE DETAIL
SCALE: 1" = 1'-0"

	TOP FLANGE SPLICE	BOTTOM FLANGE SPLICE	WEB SPLICE
SPLICE PLATE	1- \overline{P} 16"x0.75"x26.25" 2- \overline{P} 7.125"x0.75"x26.5"	1- \overline{P} 16"x1.00"x26.25" 2- \overline{P} 7.5"x1.00"x26.25"	2- \overline{P} 32"x0.5"x20.25"
NO. OF BOLTS	16 EACH SIDE	16 EACH SIDE	48 EACH SIDE



SECTION A-A
SCALE: 1" = 1'-0"

GIRDER SPLICE NOTES:

ALL COSTS FOR BOLTS, NUTS, AND WASHERS SHALL BE INCLUDED IN THE PRICE BID FOR STRUCTURAL STEEL.

SPLICE DESIGNS ARE BASED ON THE LOCATIONS INDICATED. THE CONTRACTOR HAS THE OPTION OF USING ALTERNATE SPLICE LOCATIONS. HOWEVER, RELOCATION REQUESTS MUST BE SUBMITTED TO THE D.C.E.S. FOR APPROVAL. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR RELOCATING THE SPLICE. FABRICATION SHALL CONFORM TO THE CURRENT NEW YORK STATE STEEL CONSTRUCTION MANUAL.

BOLTS NUTS & WASHERS:

WEATHERING STEEL APPLICATIONS:
ALL BOLTS SHALL BE $\frac{3}{4}$ " DIA. HIGH STRENGTH ASTM A325 (TYPE 3). NUTS AND WASHERS SHALL BE A563 AND F436 RESPECTIVELY.

WEATHERING STEEL APPLICATIONS:
ALL SPLICE PLATES SHALL BE SAME GRADE STEEL AS THE GIRDERS.

SPLICE PLATES SHALL HAVE OXYGEN CUT EDGES, AS PER SECTION 609 OF THE NYS STEEL CONSTRUCTION MANUAL.



Barton & Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

ULSTER COUNTY

GIRDER
DETAILS - 3

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BV-20

NO. DATE BY REVISION

XX

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

HAUNCH TABLE		CL OF BRGS. SOUTH ABUT.										CL OF BRGS. PIER 1										CL OF BRGS. PIER 2										CL OF BRGS. NORTH ABUT.										
		0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1		0.1 L2	0.2 L2	0.3 L2	0.4 L2	0.5 L2	0.6 L2	0.7 L2	0.8 L2	0.9 L2		0.1 L3	0.2 L3	0.3 L3	0.4 L3	0.5 L3	0.6 L3	0.7 L3	0.8 L3	0.9 L3												
GIRDER 1	(A) REQ'D BOTTOM OF SLAB ELEVATION	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	
	(B) TOP OF STEEL EL. (FIELD MEASURE)																																									
	(C) = (A) - (B)																																									
	(D) CONCRETE + S.D.L. DEFLECTION (ft)	0.000	-0.147	-0.273	-0.362	-0.406	-0.402	-0.353	-0.269	-0.168	-0.072	0.000	0.049	0.070	0.072	0.068	0.066	0.068	0.073	0.071	0.050	0.000	-0.073	-0.169	-0.270	-0.353	-0.402	-0.406	-0.363	-0.274	-0.148	0.000										
	(E) DEPTH OF HAUNCH REQ'D = (C) + (D) (ft)																																									
GIRDER 2	(A) REQ'D BOTTOM OF SLAB ELEVATION	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	625.313	
	(B) TOP OF STEEL EL. (FIELD MEASURE)																																									
	(C) = (A) - (B)																																									
	(D) CONCRETE + S.D.L. DEFLECTION (ft)	0.000	-0.177	-0.329	-0.436	-0.488	-0.483	-0.425	-0.325	-0.203	-0.087	0.000	0.060	0.086	0.088	0.084	0.082	0.084	0.089	0.086	0.060	0.000	-0.088	-0.204	-0.325	-0.426	-0.484	-0.488	-0.436	-0.329	-0.177	0.000										
	(E) DEPTH OF HAUNCH REQ'D = (C) + (D) (ft)																																									
GIRDER 3	(A) REQ'D BOTTOM OF SLAB ELEVATION	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208	625.208
	(B) TOP OF STEEL EL. (FIELD MEASURE)																																									
	(C) = (A) - (B)																																									
	(D) CONCRETE + S.D.L. DEFLECTION (ft)	0.000	-0.147	-0.273	-0.362	-0.406	-0.402	-0.353	-0.269	-0.168	-0.072	0.000	0.049	0.070	0.072	0.068	0.066	0.068	0.073	0.071	0.050	0.000	-0.073	-0.169	-0.270	-0.353	-0.402	-0.406	-0.363	-0.274	-0.148	0.000										
	(E) DEPTH OF HAUNCH REQ'D = (C) + (D) (ft)																																									

CAMBER TABLE		CL OF BRGS. SOUTH ABUT.										CL OF BRGS. PIER 1										CL OF BRGS. PIER 2										CL OF BRGS. NORTH ABUT.									
		0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	0.1 L2	0.2 L2	0.3 L2	0.4 L2	0.5 L2	0.6 L2	0.7 L2	0.8 L2	0.9 L2	0.1 L3	0.2 L3	0.3 L3	0.4 L3	0.5 L3	0.6 L3	0.7 L3	0.8 L3	0.9 L3													
GIRDERS 1 & 3	I STEEL D.L. (ft.)	0.000	-0.031	-0.057	-0.076	-0.085	-0.083	-0.073	-0.055	-0.034	-0.015	0.000	0.010	0.014	0.013		0.012	0.011	0.012		0.014	0.014	0.010	0.000	-0.015	-0.035	-0.055	-0.073	-0.083	-0.085	-0.076	-0.057	-0.031	0.000							
	II CONCRETE D.L. (ft.)	0.000	-0.024	-0.044	-0.058	-0.065	-0.064	-0.056	-0.043	-0.027	-0.011	0.000	0.008	0.011	0.011	0.009	0.009	0.009	0.011	0.011	0.008	0.000	-0.012	-0.027	-0.043	-0.056	-0.064	-0.065	-0.058	-0.044	-0.024	0.000									
	III SUPERIMPOSED D.L. (ft.)	0.000	-0.124	-0.229	-0.304	-0.341	-0.337	-0.297	-0.227	-0.142	-0.061	0.000	0.042	0.060	0.062	0.059	0.057	0.059	0.062	0.060	0.042	0.000	-0.062	-0.142	-0.227	-0.297	-0.338	-0.341	-0.304	-0.230	-0.124	0.000									
	IV VERTICAL CURVE (ft.)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000									
	TOTAL = I + II + III + IV (ft.)	0.000	-0.178	-0.331	-0.438	-0.490	-0.485	-0.426	-0.325	-0.202	-0.087	0.000	0.059	0.084	0.086	0.080	0.077	0.080	0.086	0.085	0.060	0.000	-0.088	-0.203	-0.325	-0.426	-0.485	-0.491	-0.439	-0.331	-0.179	0.000									
GIRDER 2	I STEEL D.L. (ft.)	0.000	-0.031	-0.057	-0.076	-0.085	-0.083	-0.073	-0.055	-0.034	-0.015	0.000	0.010	0.014	0.013	0.012	0.011	0.012	0.014	0.014	0.010	0.000	-0.015	-0.035	-0.055	-0.073	-0.083	-0.085	-0.076	-0.057	-0.031	0.000									
	II CONCRETE D.L. (ft.)	0.000	-0.020	-0.037	-0.049	-0.054	-0.054	-0.047	-0.036	-0.022	-0.009	0.000	0.006	0.009	0.009	0.008	0.007	0.008	0.009	0.009	0.006	0.000	-0.010	-0.022	-0.036	-0.047	-0.054	-0.054	-0.049	-0.037	-0.020	0.000									
	III SUPERIMPOSED D.L. (ft.)	0.000	-0.158	-0.292	-0.387	-0.434	-0.430	-0.378	-0.289	-0.181	-0.078	0.000	0.053	0.077	0.080	0.076	0.074	0.077	0.080	0.077	0.054	0.000	-0.079	-0.182	-0.290	-0.379	-0.430	-0.434	-0.387	-0.292	-0.158	0.000									
	IV VERTICAL CURVE (ft.)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000										
	TOTAL = I + II + III + IV (ft.)	0.000	-0.208	-0.386	-0.511	-0.573	-0.567	-0.498	-0.380	-0.237	-0.102	0.000	0.069	0.099	0.102	0.096	0.093	0.096	0.102	0.100	0.070	0.000	-0.103	-0.238	-0.381	-0.499	-0.567	-0.573	-0.512	-0.386	-0.208	0.000									

MOMENT & SHEAR TABLE			CL OF BRGS. SOUTH ABUT.									CL OF BRGS. PIER 1										CL OF BRGS. PIER 2										CL OF BRGS. NORTH ABUT.		
			0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1		0.1 L2	0.2 L2	0.3 L2	0.4 L2	0.5 L2	0.6 L2	0.7 L2	0.8 L2	0.9 L2		0.1 L3	0.2 L3	0.3 L3	0.4 L3	0.5 L3	0.6 L3	0.7 L3	0.8 L3	0.9 L3			
GIRDERS 1 & 3	D.L	MOMENT	0.0	452.3	770.2	953.8	1003.0	917.8	698.2	344.3	-144.1	-768.2	-1530.8	-919.7	-448.1	-112.2	89.2	156.2	88.8	-112.9	-449.1	-921.0	-1531.4	-767.2	-143.1	345.4	699.3	918.9	1004.1	954.9	771.3	453.4	0.0	
		SHEAR	43.3	32.1	20.9	9.7	-1.5	-12.7	-23.9	-35.1	-46.3	-57.7	-69.4	-56.8	45.0	33.6	22.4	11.2	0.0	-11.2	-22.4	-33.6	-45.0	-56.7	-69.5	57.7	46.3	35.1	23.9	12.7	1.5	-9.7	-20.9	-32.1
	S.D.L	MOMENT	0.0	36.4	62.0	76.8	80.7	73.9	56.3	27.9	-11.3	-61.3	-122.1	-73.5	-35.8	-8.8	7.4	12.8	7.4	-8.8	-35.8	-73.5	-122.2	-61.3	-11.3	27.9	56.3	73.9	80.7	76.8	62.0	36.4	0.0	
		SHEAR	3.5	2.6	1.7	0.8	-0.1	-1.0	-1.9	-2.8	-3.7	-4.6	-5.5	-4.5	3.6	2.7	1.8	0.9	0.0	-0.9	-1.8	-2.7	-3.6	-4.5	-5.5	4.6	3.7	2.8	1.9	1.0	0.1	-0.8	-1.7	-2.6
	PEDESTRIAN (+)	MOMENT	0.0	688.9	1173.2	1465.0	1585.4	1545.2	1356.1	1029.7	592.9	169.9	350.6	249.5	416.9	587.5	1146.6	1216.7	1146.2	868.8	578.5	168.4	351.2	316.1	485.5	1031.2	1357.3	1545.1	1584.4	1465.1	1172.7	688.1	0.0	
		SHEAR	91.5	72.5	59.4	47.3	36.5	27.0	18.8	12.1	6.8	2.8	3.7	103.2	86.9	75.4	63.6	51.9	40.9	30.7	21.7	17.4	16.7	16.5	106.3	91.7	81.7	71.2	60.3	49.2	38.1	27.3	16.9	9.6
	PEDESTRIAN (-)	MOMENT	0.0	-86.3	-172.5	-258.8	-345.0	-431.3	-517.6	-603.8	-690.1	-776.4	-1.992.9	-1126.6	-729.5	-449.9	-705.9	-622.1	-704.4	-735.4	-890.5	-1045.6	-1592.3	-966.3	-582.5	-605.1	-518.6	-345.0	-345.4	-258.8	-172.5	-86.8	0.0	
		SHEAR	-9.2	-9.6	-16.9	-27.3	-38.1	-49.2	-60.3	-71.2	-81.7	-91.7	-106.3	-16.4	-17.1	-19.2	-21.7	-30.7	-40.9	-52.0	-63.6	-75.4	-86.9	-103.2	-3.7	-2.8	-6.9	-12.1	-18.8	-27.0	-36.5	-47.3	-59.4	-72.5
	GIRDER 2	D.L	MOMENT	0.0	535.4	911.7	1129.0	1187.2	1086.4	826.5	407.5	-170.7	-909.2	-1810.8	-1088.4	-530.2	-132.4	106.2	185.8	106.3	-132.2	-529.9	-1088.0	-1810.2	-908.2	-169.9	408.1	826.9	1086.7	1187.4	1129.0	911.6	535.1	0.0
			SHEAR	51.2	38.0	24.7	11.5	-1.8	-15.0	-28.3	-41.5	-54.8	-68.3	-82.6	-71.1	53.2	39.8	26.5	13.3	0.0	-13.3	-26.5	-39.8	-53.2	-67.8	68.3	54.8	41.5	28.3	15.0	1.8	-11.5	-24.7	-38.0
		S.D.L	MOMENT	0.0	36.4	62.0	76.7	80.7	73.9	56.3	27.9	-11.3	-61.4	-122.2	-73.6	-35.8	-8.7	7.5	12.9	7.5	-8.7	-35.7	-73.6	-122.2	-61.3	-11.3	27.9	56.3	73.9	80.7	76.7	62.0	36.4	0.0
			SHEAR	3.5	2.6	1.7	0.8	-0.1	-1.0	-1.9	-2.8	-3.7	-4.6	-5.5	-4.5	3.6	2.7	1.8	0.9	0.0	-0.9	-1.8	-2.7	-3.6	-4.5	-5.5	4.6	3.7	2.8	1.9	1.0	0.1	-0.8	-1.7
PEDESTRIAN (+)		MOMENT	0.0	497.8	853.0	1072.2	1166.8	1142.7	1006.3	763.8	452.7	103.3	277.1	187.0	260.3	356.0	821.9	876.2	821.5	637.3	421.2	106.2	277.5	249.7	345.3	765.4	1007.6	1144.0	1168.1	1073.3	854.1	498.7	0.3	
		SHEAR	91.5	72.5	59.3	47.3	36.5	27.0	18.8	12.1	6.8	2.8	3.7	103.2	86.9	75.4	63.6	52.0	40.9	30.7	21.8	17.4	16.7	16.5	106.3	91.7	81.7	71.2	60.3	49.2	38.1	27.3	16.9	9.6
PEDESTRIAN (-)		MOMENT	0.0	-64.7	-129.4	-194.0	-258.7	-323.4	-388.1	-452.7	-541.7	-609.4	-1.339.7	-906.0	-541.4	-293.6	-563.1	-517.8	-563.0	-580.7	-703.3	-825.8	-1339.4	-799.7	-434.3	-453.9	-389.0	-324.1	-259.3	-194.4	-129.5	-64.8	-0.4	
		SHEAR	-9.2	-9.6	-16.9	-27.3	-38.2	-49.2	-60.3	-71.2	-81.7	-91.7	-106.3	-16.5	-17.2	-19.2	-21.8	-30.8	-40.9	-52.0	-63.6	-75.4	-86.9	-103.2	-3.7	-2.8	-6.8	-12.1	-18.9	-27.0	-36.5	-47.3	-59.3	-72.5

FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\333.369007001 Bearing Details Expansion.dgn
DATE = 2/19/2018
TIME = 11:10:48 AM

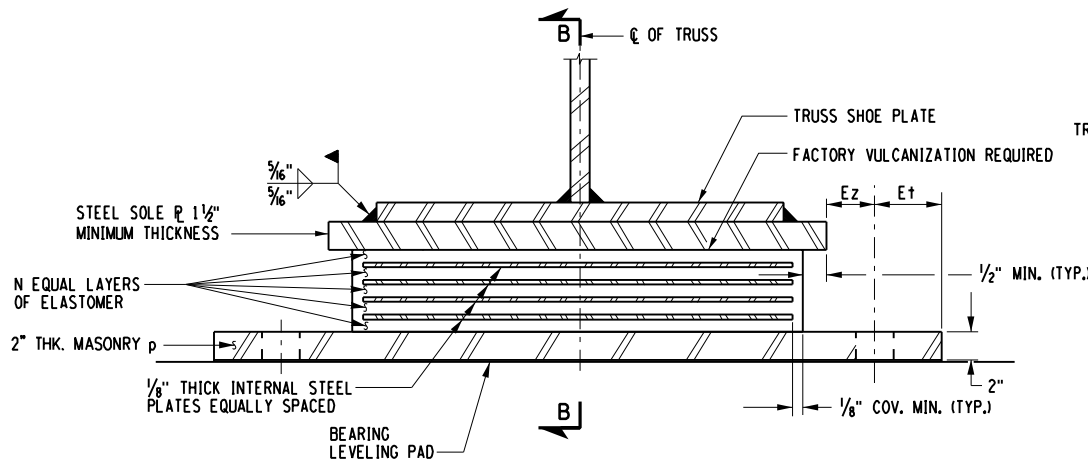
cmh
L:\MicroStation\Workspace\Plot\NYSDOT\Site\NYSDOT SIZE B.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT.LJ5000.B.04.08.plt

DESIGNED BY
CHECKED BY
DRAFTED BY
IN CHARGE OF

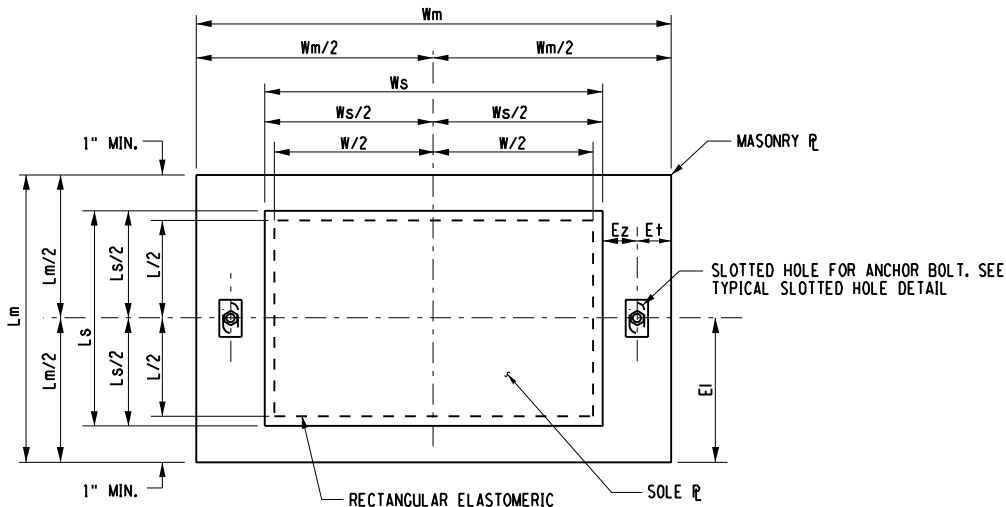
EXPANSION ELASTOMERIC BEARING (TYPE E.B.) TABLE																																
LOCATION	ITEM NO.	QUANTITY REQUIRED	DL + SDL (Kips)	LL W/O IMP. (Kips)	TOTAL DESIGN REACTION (Kips)	SHAPE FACTOR	ELASTOMER LAYERS					hrt	COMP. AREA (sq. in)	SHEAR AREA (sq. in)	MASONRY PLATE								ANCHOR BOLTS		WELD SIZE	WASHER PLATE		SOLE PLATE				BRG. H
							THK/LAYER	N LAYERS	L	W	D				Wm	Lm	Tm	Et	Ei	Ez	Am	Bm	DIA.	STUDS/ BRG.		AWp	BWp	Ws	Ls	T1	T2	
NO. ABUT.	565.2033	3	54.60	86.34	140.94	7.88	0.5	4	14	18	2.375	2	244.06	252	26	20	2	2	10	1.5	2.50	1.375	1	2	0.3125	3.5	2.375	19	19	1.5	1.5	5.875
PIER 2	565.2035	3	159.20	95.98	255.18	9.00	0.5	4	18	18	2.375	2	315.06	324	28	20	2	2.875	10	1.625	2.75	1.625	1.25	2	0.3125	3.75	3.75	19	19	1.5	1.5	5.875
SO. ABUT.	565.2033	3	54.60	86.34	140.94	8.47	0.5	8	16	18	4.875	4	279.56	288	26	20	2	2	10	1.5	2.50	1.375	1	2	0.3125	3.5	3.375	19	19	1.5	1.5	8.375

TABLE DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

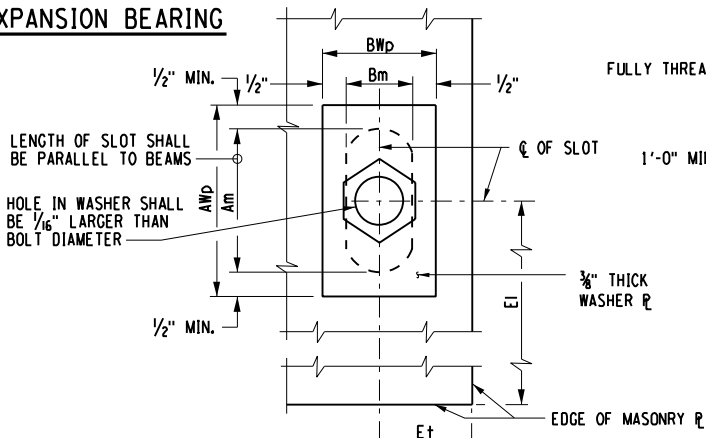
T2 IS UPSTATION OF T1



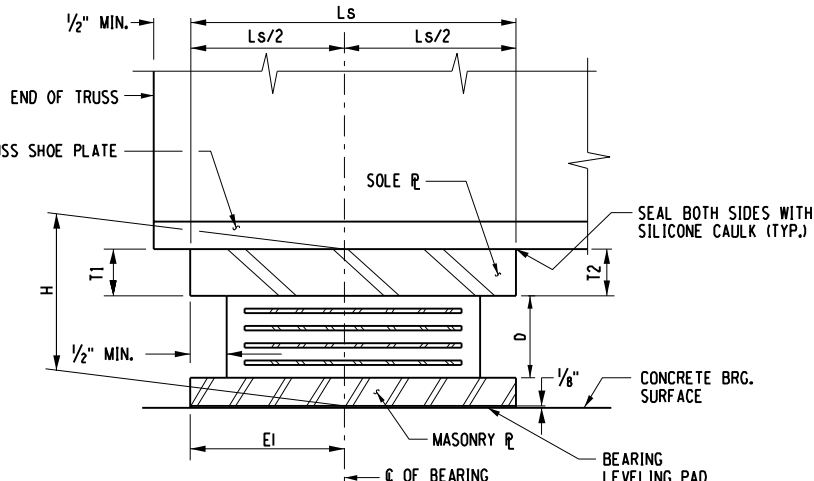
ELEVATION
TYPICAL EXPANSION BEARING
N.T.S.



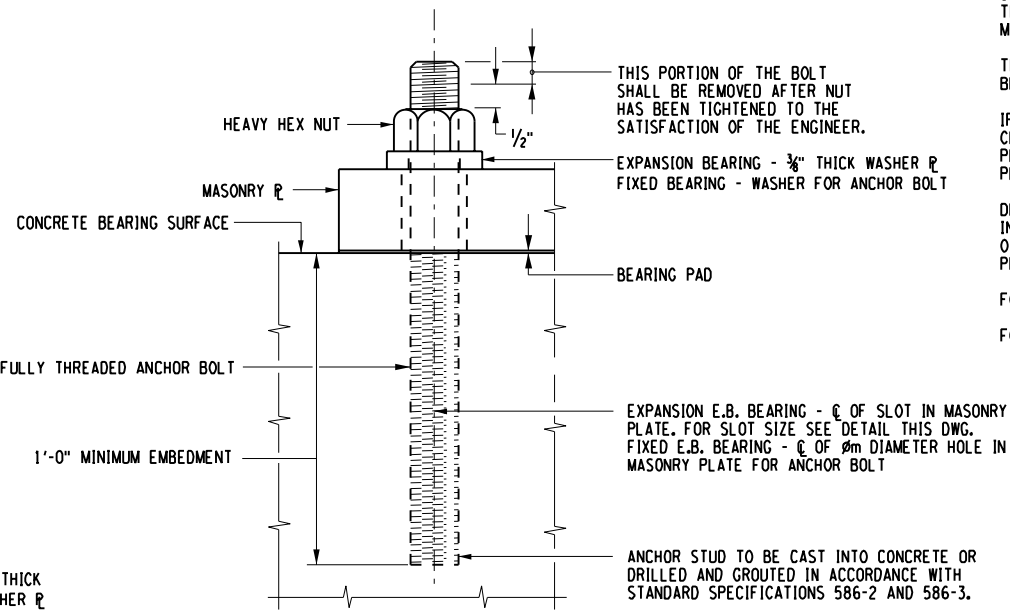
PLAN
TYPICAL RECTANGULAR EXPANSION BEARING
N.T.S.



TYPICAL SLOTTED HOLE DETAIL
MASONRY PLATE
N.T.S.



SECTION B-B
N.T.S.



ANCHOR BOLT

ANCHOR STUDS, WASHERS, WASHER PLATES, ANCHOR PLATES AND NUTS SHALL MEET THE REQUIREMENTS OF SUBSECTION 723-60. THEY SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF MATERIAL SUBSECTION 719-01, "GALVANIZED COATINGS AND REPAIR METHODS." THEIR COST (INCLUDING GALVANIZING) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.

BEARING SOLE PLATE IS SIZED BASED ON THE BEARING DIMENSIONS SHOWN AND ASSUMED TRUSS SHOE PLATE DIMENSIONS (LENGTH & WIDTH) OF 14" (MIN) AND 16" (MAX). IF THE ACTUAL TRUSS SHOE PLATE PROVIDED EXCEEDS THE ASSUMED MAXIMUM DIMENSION; THE BEARING SOLE PLATE AND BEARING MASONRY PLATE MAY NEED TO BE RESIZED. ADDITIONALLY, ADJUSTMENTS MAY NEED TO BE MADE TO THE BRIDGE SEAT TO ACCOMMODATE THE LARGER MASONRY PLATE.

BEARING NOTES:

THE BEARINGS SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 565 UNLESS OTHERWISE NOTED.

ALL ELASTOMER SHALL BE 50 DUROMETER HARDNESS ON THE SHORE A SCALE.

ALL STEEL EXCEPT THE INTERNAL STEEL PLATES SHALL CONFORM TO ASTM A709, GR. 50, UNLESS OTHERWISE NOTED. STEEL SOLE PLATES AND STEEL MASONRY PLATES SHALL BE GALVANIZED IN ACCORDANCE WITH SUBSECTION 719-01.

FIELD GALVANIZING REPAIRS SHALL BE PERFORMED IN AREAS DAMAGED FROM WELDING THE TRUSS SHOE PLATE TO THE BEARING SOLE PLATE. FIELD GALVANIZING REPAIRS SHALL BE MADE IN ACCORDANCE WITH SUBSECTION 719-01, "GALVANIZED COATINGS AND REPAIR METHODS".

BEARING PADS SHALL CONFORM TO ONE OF THE FOLLOWING MATERIAL SPECIFICATIONS: 728-01, 728-02 OR 728-03.

INSTALLATION ALIGNMENT: THE MAXIMUM VARIATION FROM PERFECT ALIGNMENT UNDER FULL DEAD LOAD SHALL NOT EXCEED 3/16". THIS VARIATION SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CENTERLINE OF THE HIGHEST ELASTOMER SURFACE AND THE CENTERLINE OF THE LOWEST ELASTOMER SURFACE.

CONCRETE SURFACES UNDER THE BEARINGS SHALL CONFORM TO SUBSECTION 565.3.02 "CONCRETE BEARING SURFACE PREPARATION" OF THE NEW YORK STATE STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS.

THE BEARING PAD, ANCHOR STUDS, WASHER PLATES AND NUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.

IF THE ANCHOR STUDS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR NUT PLUS 1" SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF THE SOLE PLATE.

DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

FOR ABUTMENT BEARING LAYOUT, SEE DWG. BV-7.

FOR PIER BEARING LAYOUT, SEE DWG. BV-14.

NO. DATE BY REVISION



Barton & Loguidice, D.P.C.

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

EXPANSION
ELASTOMERIC
BEARING DETAILS

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BV-22

ULSTER COUNTY

FILE NAME = L:\WINSTN Projects\0300\369.007 - Ashoken Rail Trail\WMS\NPS&E Plans\334_369007001 Bearing Details Fixed.dgn
DATE = 2/19/2018
TIME = 11:10:51 AM

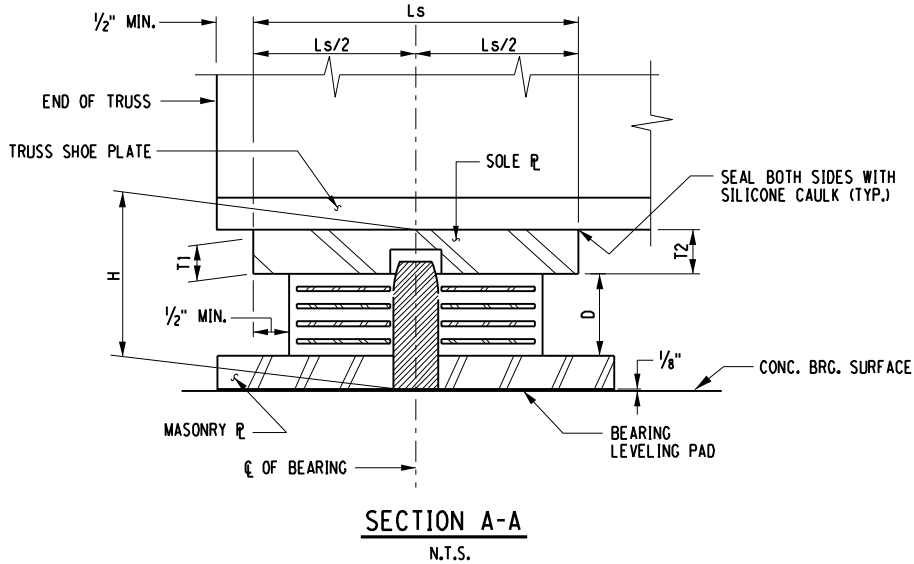
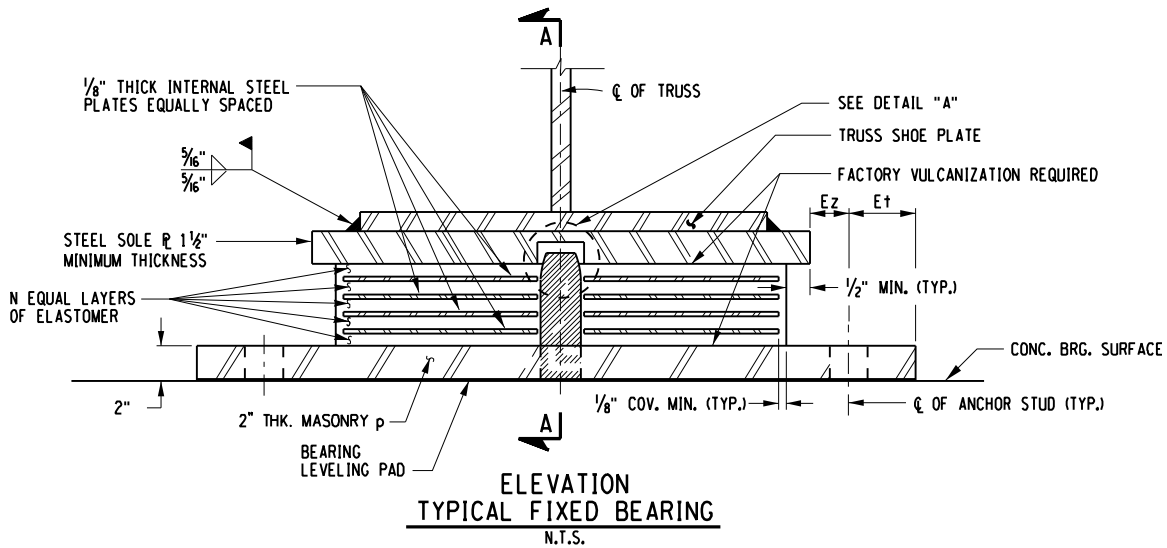
cmh
L:\MicroStationWorkspace\Plot\WYSDOT\WYSDOT SITE B.tbl
L:\MicroStationWorkspace\Plot\WYSDOT\WYSDOT.LJ5000.B.04.08.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

FIXED ELASTOMERIC BEARING (TYPE E.B.) TABLE																														
LOCATION	ITEM NO.	QUANTITY REQUIRED	DL + SDL (Kips)	LL W/O IMP. (Kips)	TOTAL DESIGN REACTION (Kips)	SHAPE FACTOR	ELASTOMER LAYERS					hrt	COMP. AREA (sq. in)	SHEAR AREA (sq. in)	MASONRY PLATE							ANCHOR STUDS		WELD SIZE	SOLE PLATE				BRG. H	sp (PIN DIA.)
							THK/LAYER	N LAYERS	L	W	D				Wm	Lm	Tm	Et	Ei	Ez	sm	DIA.	STUDS/ BRG.		Ws	Ls	T1	T2		
PIER 1	565.2025	3	159.20	95.98	255.18	9	0.5	4	18	18	2.375	2	312.99	322.23	28	20	2	2.4	10	1.625	1.625	1.25	2	0.3125	19	19	1.5	1.5	5.875	2.625

TABLE DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

* T2 IS UPSTATION OF T1
* TM1 SHALL BE OREINTATED TOWARD CL OF THE BRIDGE



BEARING NOTES:

THE BEARINGS SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 565 UNLESS OTHERWISE NOTED.

ALL ELASTOMER SHALL BE 50 DUROMETER HARDNESS ON THE SHORE A SCALE.

ALL STEEL EXCEPT THE INTERNAL STEEL PLATES SHALL CONFORM TO ASTM A709, GR. 50, UNLESS OTHERWISE NOTED. STEEL SOLE PLATES AND STEEL MASONRY PLATES SHALL BE GALVANIZED IN ACCORDANCE WITH SUBSECTION 719-01, "GALVANIZED COATINGS AND REPAIR METHODS".

FIELD GALVANIZING REPAIRS SHALL BE PERFORMED IN AREAS DAMAGED FROM WELDING THE TRUSS SHOE PLATE TO THE BEARING SOLE PLATE. FIELD GALVANIZING REPAIRS SHALL BE MADE IN ACCORDANCE WITH SUBSECTION 719-01, "GALVANIZED COATINGS AND REPAIR METHODS".

BEARING PADS SHALL CONFORM TO ONE OF THE FOLLOWING MATERIAL SPECIFICATIONS: 728-01, 728-02 OR 728-03.

INSTALLATION ALIGNMENT:
THE MAXIMUM VARIATION FROM PERFECT ALIGNMENT UNDER FULL DEAD LOAD SHALL NOT EXCEED 3/16". THIS VARIATION SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CENTERLINE OF THE HIGHEST ELASTOMER SURFACE AND THE CENTERLINE OF THE LOWEST ELASTOMER SURFACE.

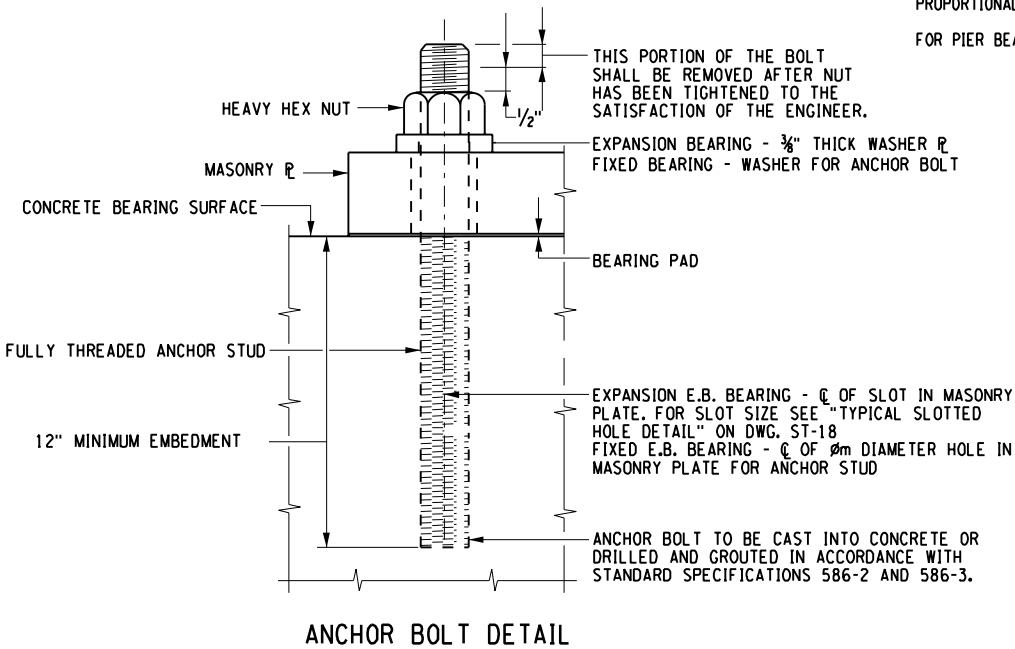
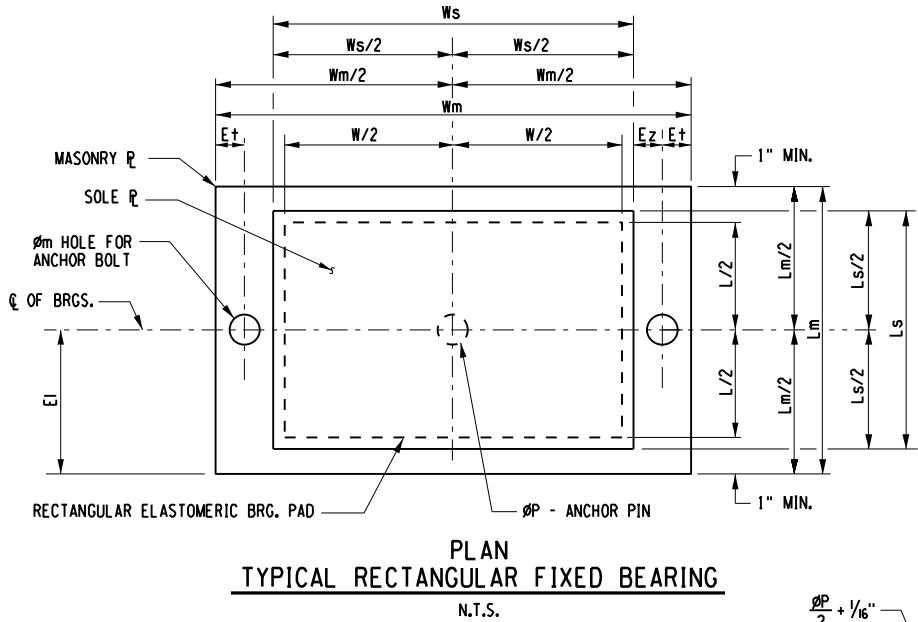
CONCRETE SURFACES UNDER THE BEARINGS SHALL CONFORM TO SUBSECTION 565.3.02 "CONCRETE BEARING SURFACE PREPARATION" OF THE NEW YORK STATE STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS.

THE BEARING PAD, ANCHOR STUDS, WASHER PLATES AND NUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.

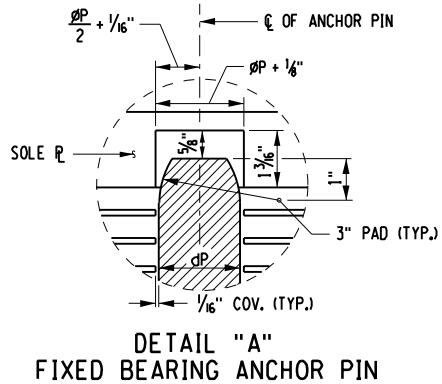
IF THE ANCHOR STUDS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR NUT PLUS 1" SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF THE SOLE PLATE.

DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

FOR PIER BEARING LAYOUT, SEE DWG. BV-14.



ANCHOR STUDS, WASHERS, WASHER PLATES, ANCHOR PLATES AND NUTS SHALL MEET THE REQUIREMENTS OF SUBSECTION 723-60. THEY SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF MATERIAL SUBSECTION 719-01, "GALVANIZED COATINGS AND REPAIR METHODS." THEIR COST (INCLUDING GALVANIZING) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.



PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

NO. DATE BY REVISION



Barton & Loguidice, D.P.C.

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

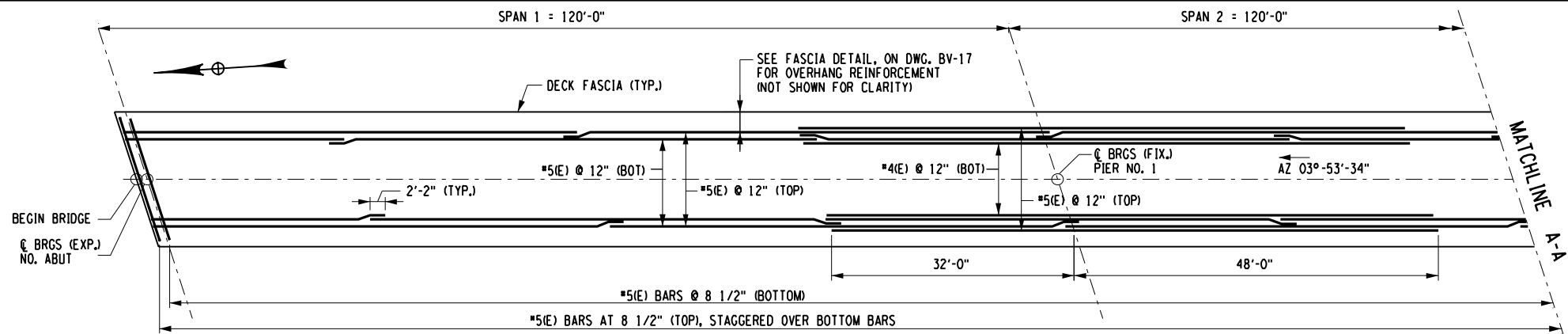
FIXED
ELASTOMERIC
BEARING DETAILS

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BV-23

ULSTER COUNTY

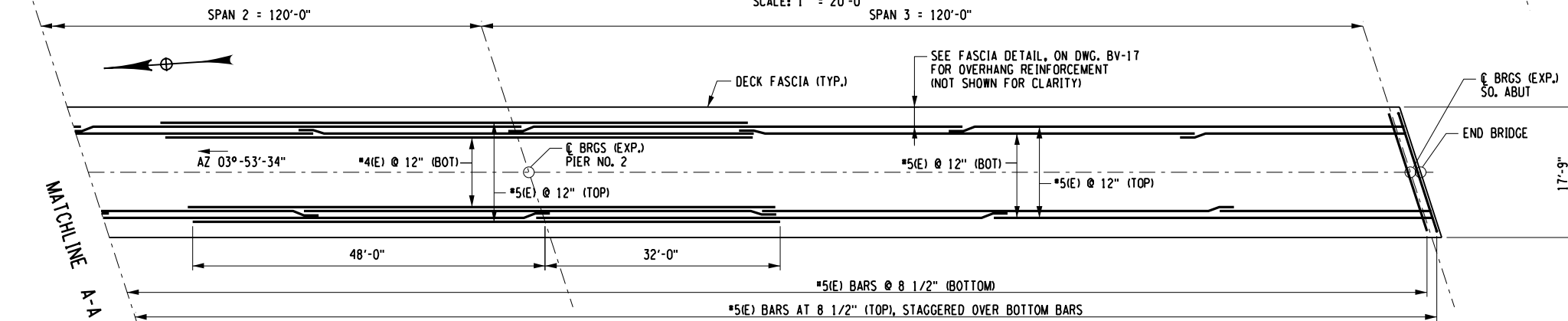
FILE NAME = L:\MSTN\Projects\0300\369,007 - Ashoken Rail Trail\MSTN\PS&E Plans\335-369007001 Deck Details 2.dgn
DATE = 2/19/2018
TIME = 11:10:56 AM
cmh L:\MicroStation\Workspace\Plot\NYSDOT\SITE\NYSDOT_SIZE.B.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT.LJ5000.B.04.08.plt

IN CHARGE OF
DESIGNED BY
CHECKED BY
DRAFTED BY
CHECKED BY



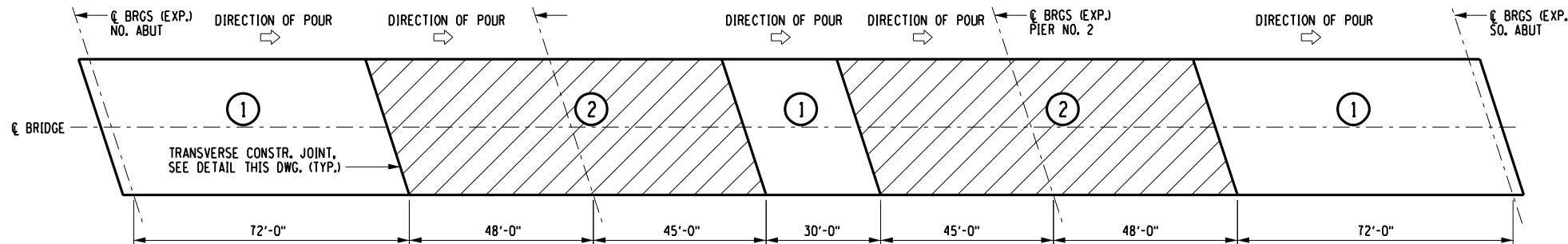
DECK REINFORCEMENT PLAN

SCALE: 1" = 20'-0"



DECK REINFORCEMENT PLAN

SCALE: 1" = 20'-0"



DECK CONCRETE PLACEMENT SEQUENCE PLAN

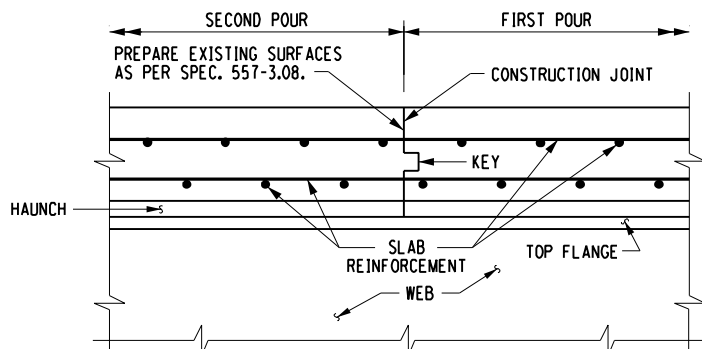
N.T.S.

DECK POUR SEQUENCE NOTES:

1. ALL PLACEMENTS FOR EACH RESPECTIVE SHALL BE POURED SIMULTANEOUSLY.

① - INDICATES POUR NUMBER

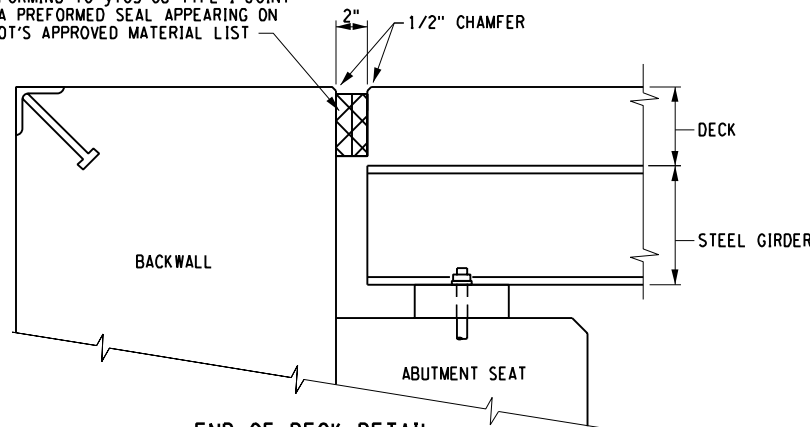
PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON:



TRANSVERSE CONSTRUCTION JOINT IN SLAB

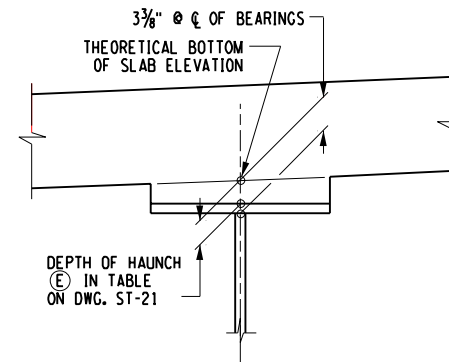
NOT TO SCALE

PREFORMED CLOSED CELL CROSS-LINKED
FOAM CONFORMING TO y705-08 TYPE I JOINT
SEAL OR A PREFORMED SEAL APPEARING ON
THE NYSDOT'S APPROVED MATERIAL LIST



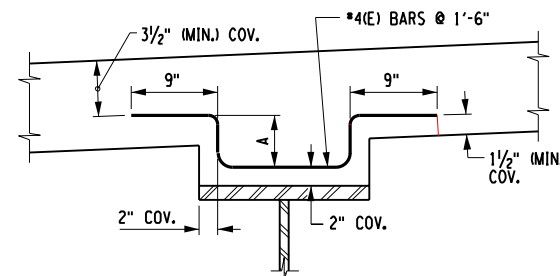
END OF DECK DETAIL

N.T.S.



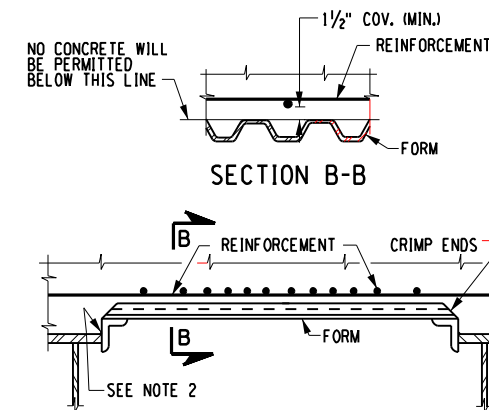
GIRDER HAUNCH DETAIL

NOT TO SCALE



REINFORCED GIRDER HAUNCH DETAIL

NOT TO SCALE



SECTION B-B

PERMANENT CORRUGATED METAL FORM DETAIL

NOT TO SCALE

FORM UNIT NOTES:

1. THE COST OF THE FORMING SYSTEM SHOWN ON THIS DRAWING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SUPERSTRUCTURE SLAB CONCRETE ITEM.
2. TACK WELDS SHALL BE ALLOWED IN THE COMPRESSION AREA OF THE STRINGER'S TOP FLANGE ONLY. FOR CONTINUOUS STRUCTURES, SEE STRINGER DETAILS FOR LIMITS OF TENSION ZONES FOR THE TOP FLANGE. WELDING SHALL CONFORM TO SECTION 7 OF THE N.Y.S. STEEL CONSTRUCTION MANUAL. (3/16" DIA. E7018 OR E8018-C3 ELECTRODES, PROPERLY CONDITIONED, SHALL BE USED.)
3. THE SUPPORT ANGLES AND/OR ZEES SHALL BE GALVANIZED IN ACCORDANCE WITH MATERIAL SPECIFICATION 719-01.



Barton & Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

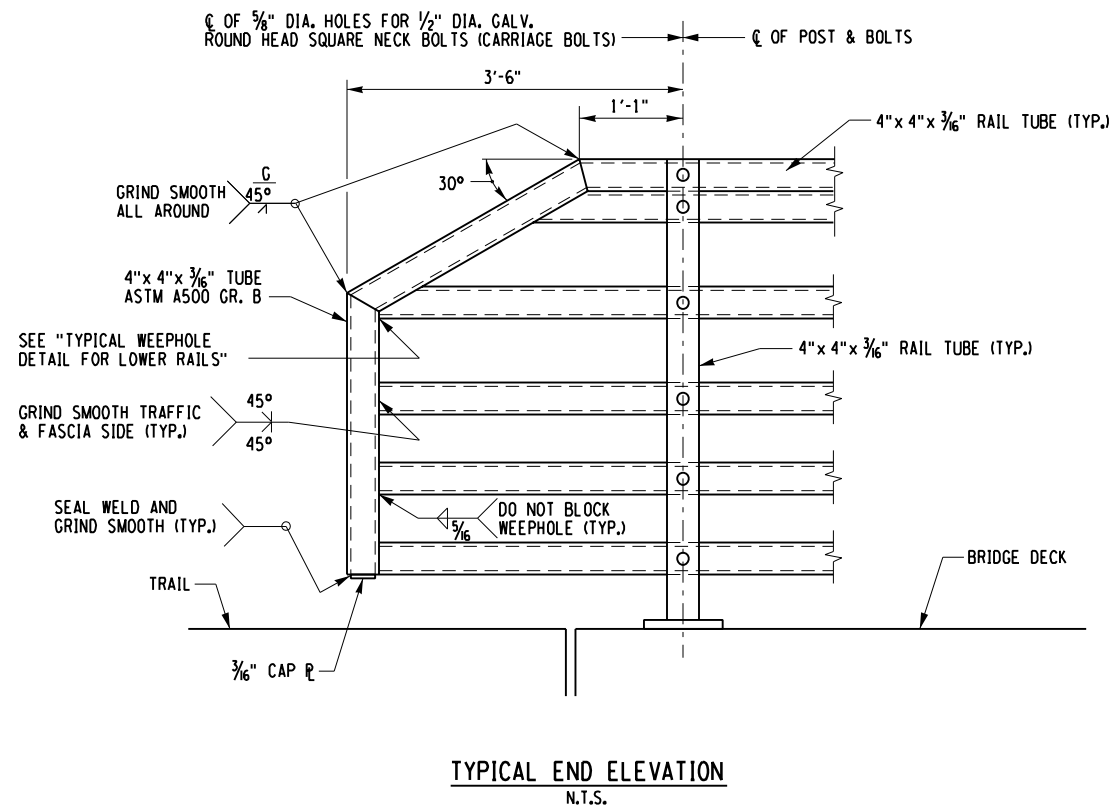
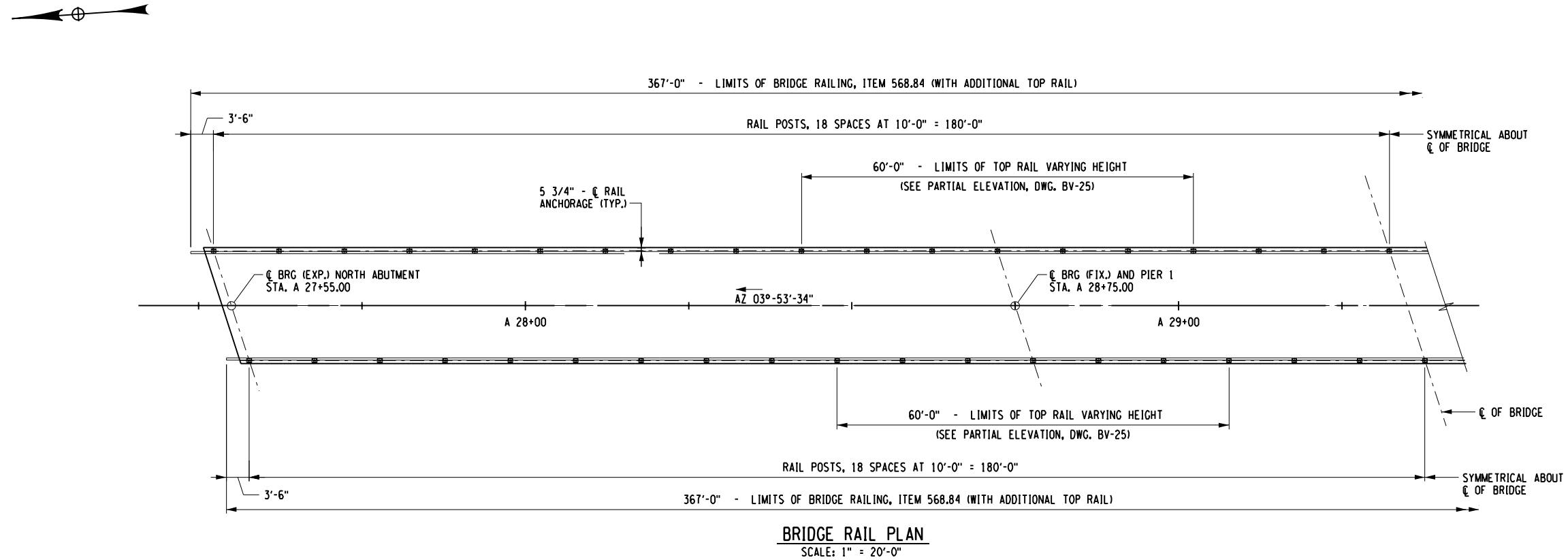
ULSTER COUNTY

DECK
REINFORCEMENT
PLAN AND
DETAILS

SCALE: AS SHOWN

DATE ISSUED: 1/2018

DRAWING
BV-24

[illegible]

Barton
& Togni
D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

ULSTER COUNTY

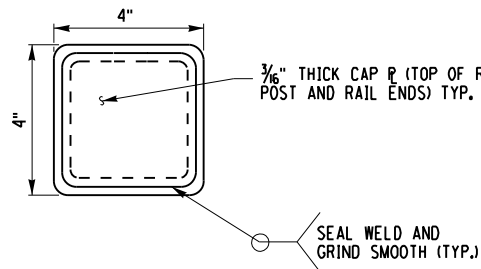
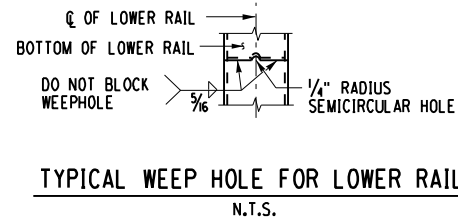
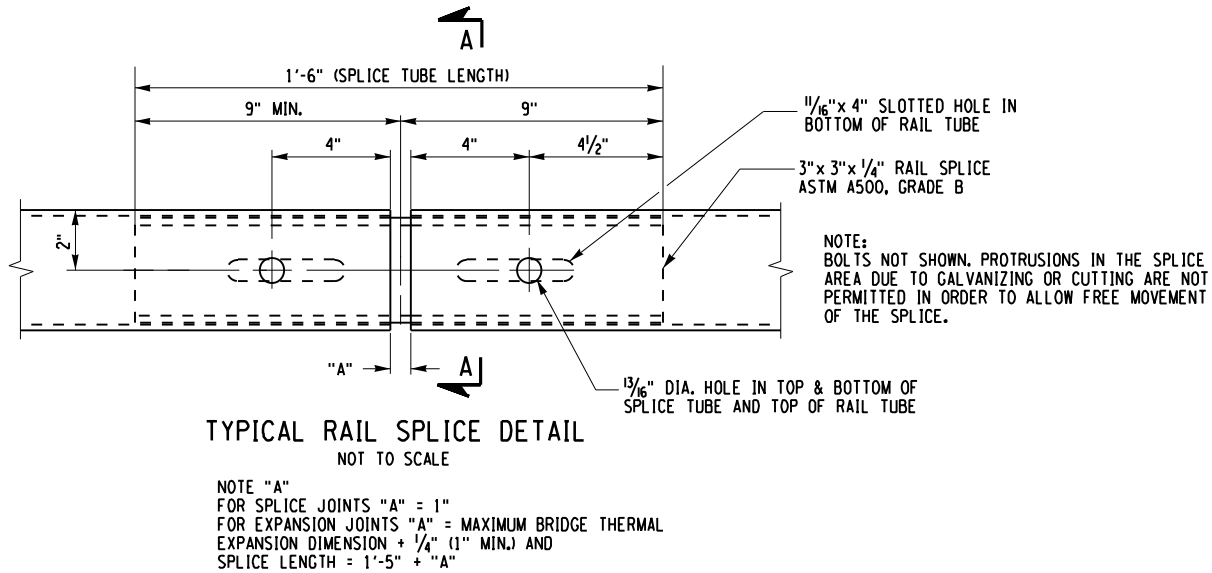
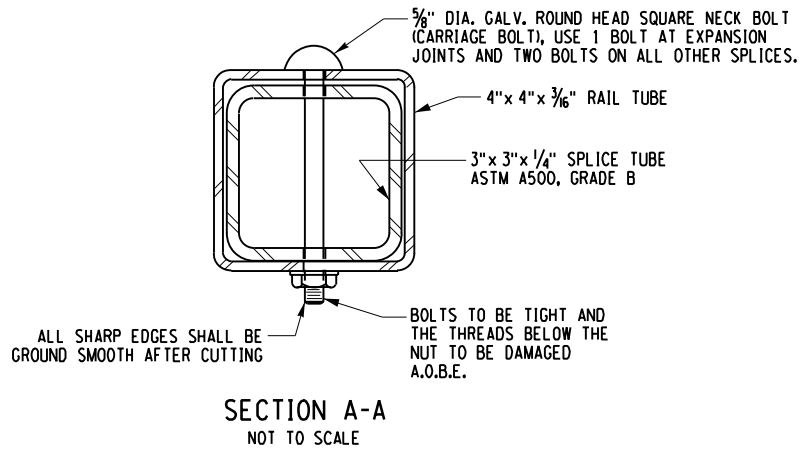
BRIDGE RAIL
LAYOUT PLAN
AND DETAILS

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BV-25

FILE NAME = L:\MSTN Projects\0300\369,007 - Ashoken Rail Trail\MSTN\PS&E Plans\343_369007001 Rail Details-2.dgn
DATE = 2/19/2018
TIME = 11:11:07 AM

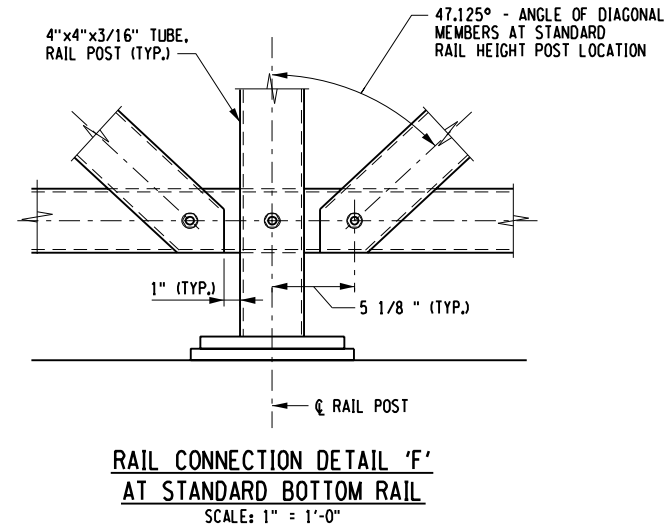
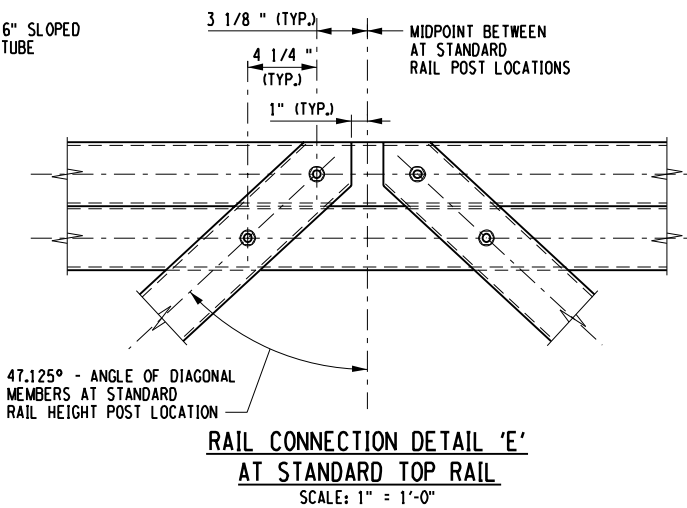
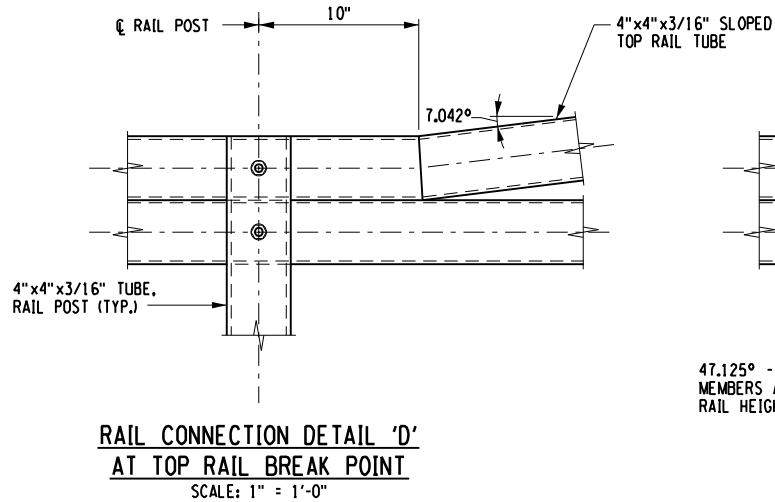
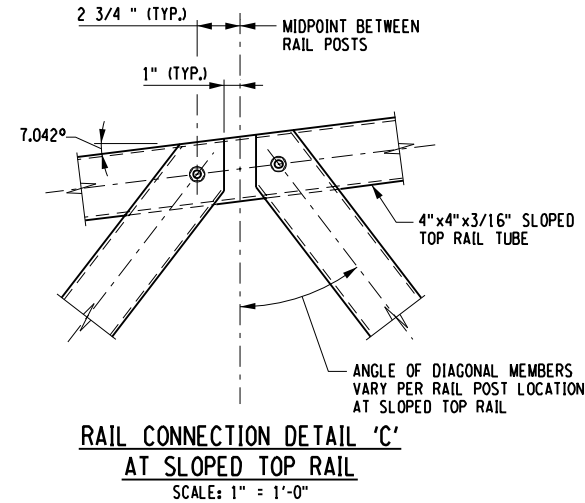
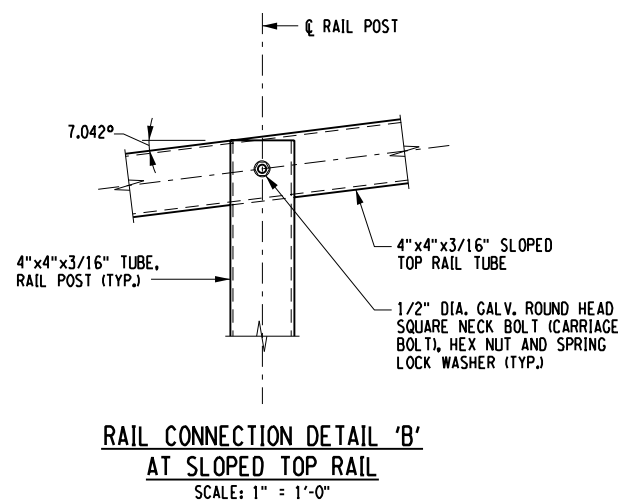
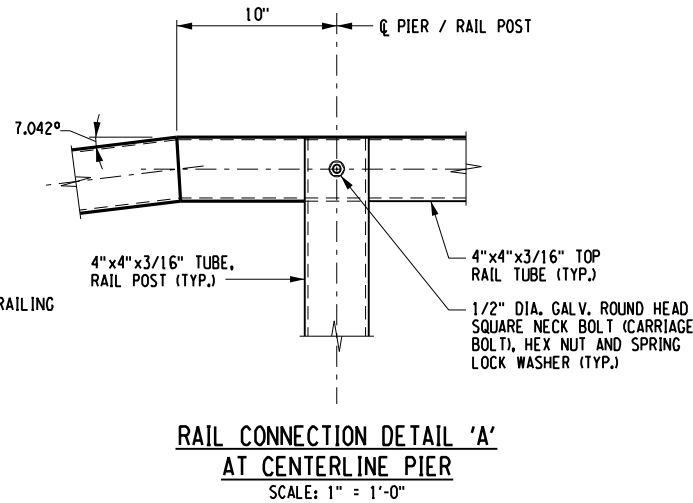
cmh
L:\MicroStation\Workspace\Plot\NYSDOT\SITE\NYSDOT_SIZE.B.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT.LJ5000.B.04.08.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



CAP PLATE DETAIL
(TYPICAL FOR TOP OF RAILING
POSTS AND RAIL ENDS)
NOT TO SCALE

NOTE:
END CAPS FOR RAILINGS ARE TO BE USED
ONLY WHERE THE RAIL TERMINATES AND AT
THE TOPS OF ALL RAILING POSTS.



NOTE:
FOR ADDITIONAL TYPICAL RAIL DETAILS
AND NOTES, NOT SHOWN, SEE CURRENT
N.Y.S.D.O.T. BD SHEETS.



Barton & Loguidice, D.P.C.

ASHOKAN RAIL TRAIL
BOICEVILLE BRIDGE
OVER ESOPUS CREEK

RAILING
DETAILS - 2

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BV-27

ULSTER COUNTY

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

NO. DATE BY REVISION

XX

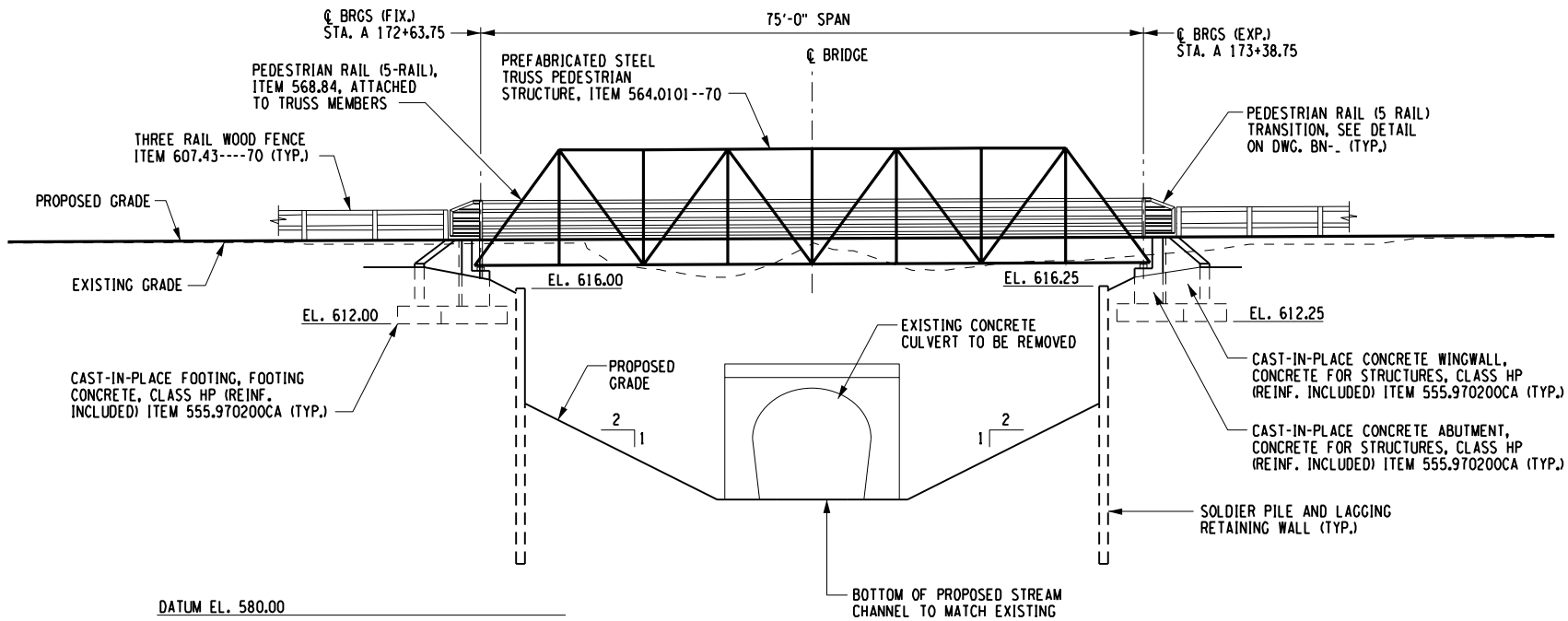
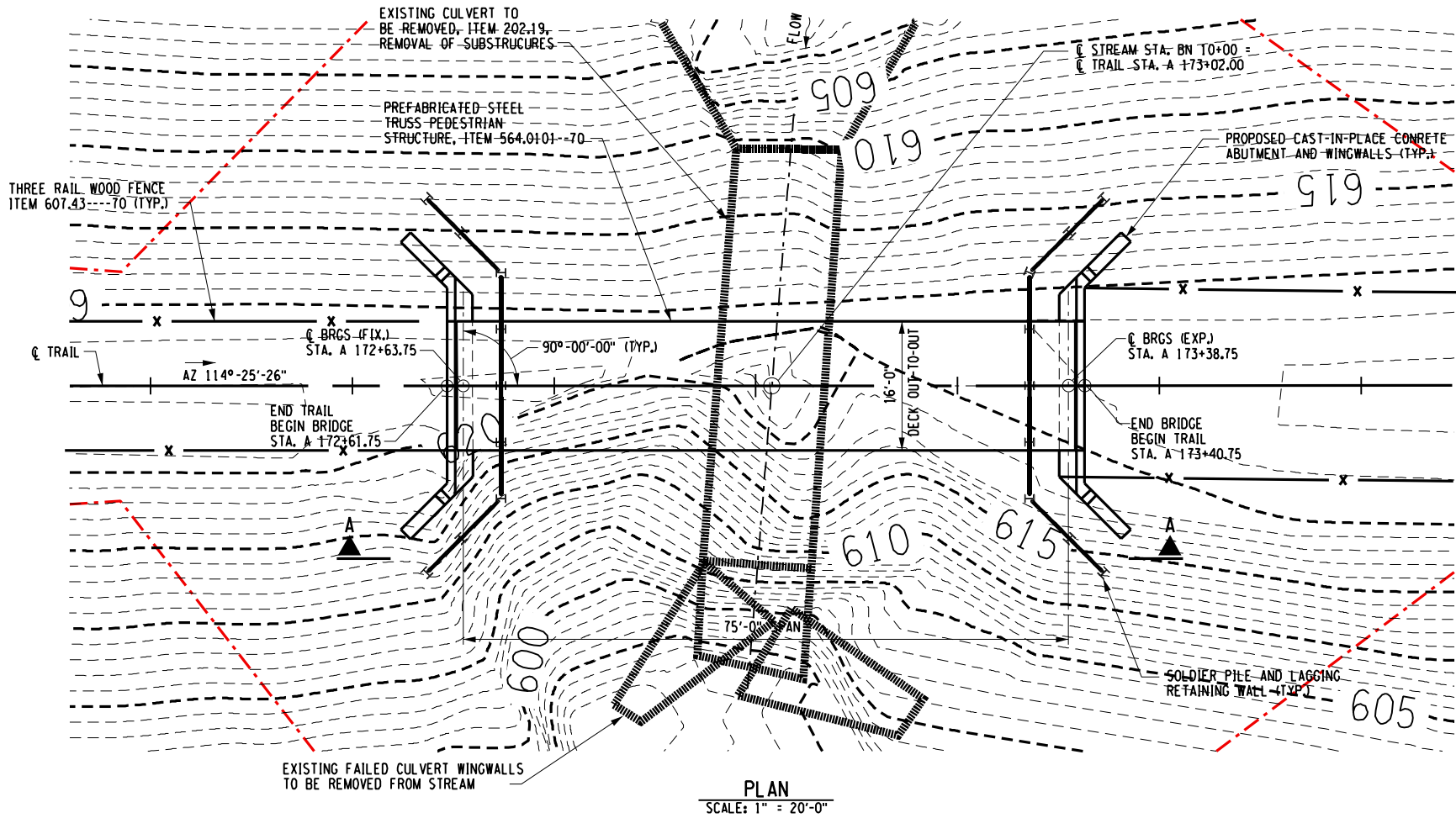
FILE NAME = L:\MSTN Projects\0300\369,007 - Ashoken Rail Trail\MSTN\PS&E Plans\401_369007001 Butternut PLEL.dgn
DATE = 2/19/2018
TIME = 11:39:05 AM

cmh
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT.LJ5000.B.04.00.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

LOAD RATING (LRFD)		
INVENTORY		
OPERATING		

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :



PROPOSED SEQUENCE OF WORK:

1. INSTALL PERMANENT SOLIDER PILE AND LAGGING WALL, ITEMS 552.2201 AND 552.230301 ON BOTH SIDES OF THE EXISTING CULVERT
2. INSTALL COFFERDAM C1 AT NORTHEAST WINGWALL
3. REMOVE NORTHEAST WINGWALL AND EXCAVATE FOR INSTALLATION OF TEMPORARY CULVERT PIPE.
4. INSTALL 4 FT. DIAMETER TEMPORARY CULVERT PIPE. TEMPORARY MEDIUM STONE FILL, ITEM 620.04, SHALL BE PLACED AT THE END OF THE CULVERT PIPE AND SHALL BE TAPERED FROM THE DOWNSTREAM PIPE INVERT TO THE BASE OF THE STREAM
5. INSTALL COFFERDAM C2.
6. REMOVE COFFERDAM C1
7. INSTALL COFFERDAM C3 TO DIVERT ALL FLOWS THROUGH TEMPORARY CULVERT PIPE.
8. EXCAVATE AT 2H:1V SLOPE TO BASE OF LAGGING WALL.
9. REMOVE EXISTING CULVERT, TO INCLUDE FAILED DOWNSTREAM WINGWALLS CURRENTLY IN THE STREAM.
10. PLACE HEAVY STONE FILL, ITEM 620.05, ALONG STREAM BANKS AT BOTTOM OF STREAM ELEVATION TO 1' ABOVE ORDINARY HIGH WATER MARK.
11. INSTALL COFFERDAM C4 AND REMOVE TEMPORARY CULVERT PIPE. PLACE STONE FILL AS NECESSARY IN AREA OF TEMPORARY PIPE.
12. REMOVE COFFERDAM C4 AND RESTORE SITE DISTURBANCE.

NOTES:

1. SEE DWG. PL-24 FOR PROFILE INFORMATION.
2. SEE DWG. ESCP-24 FOR GRADING PLAN.



Barton & Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL

BUTTERNUT COVE

STRUCTURE REPLACEMENT

ULSTER COUNTY

BRIDGE PLAN
AND ELEVATION

SURVEY AND MAPPING PROVIDED BY:

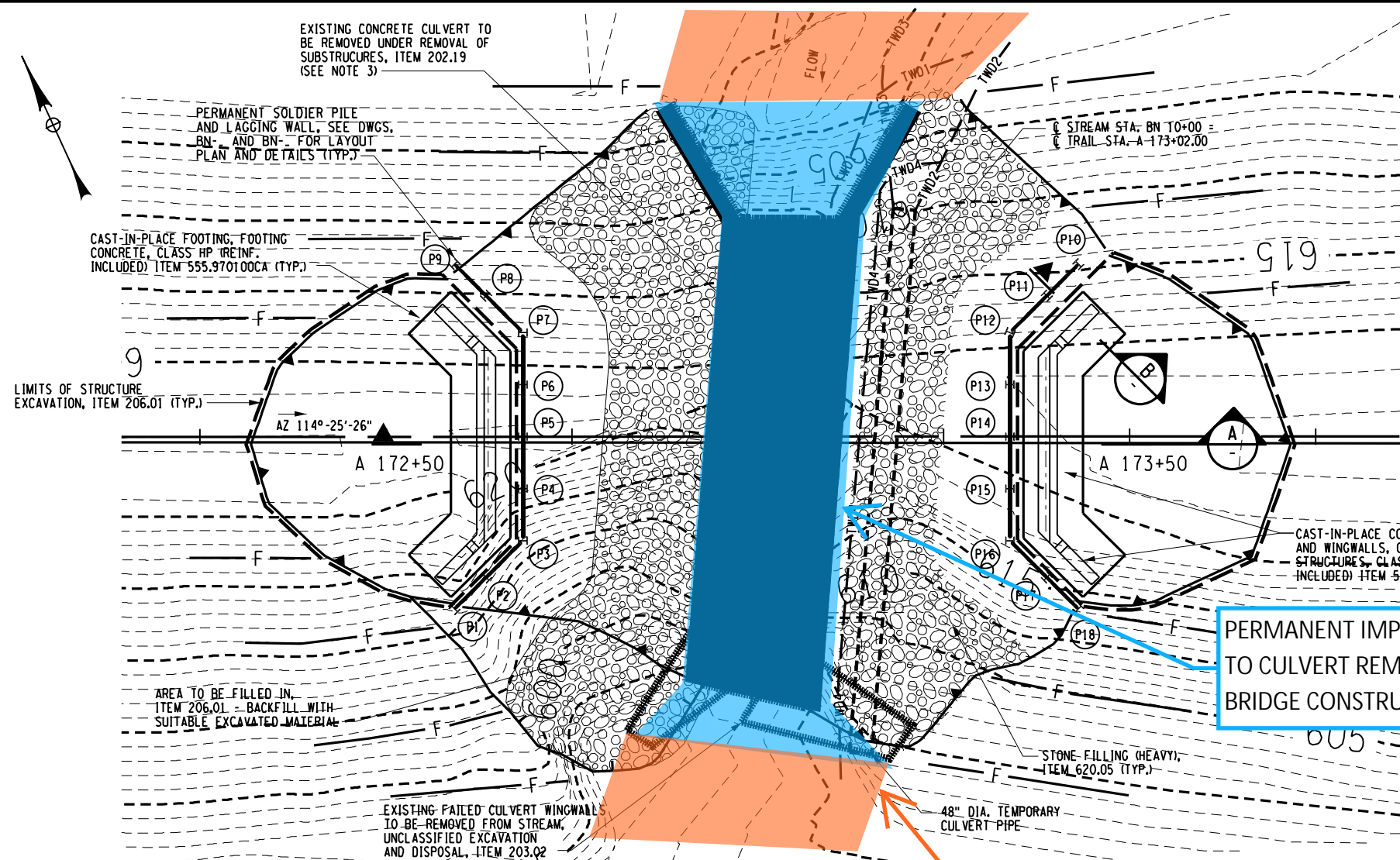
BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BN-1

FILE NAME = L:\MSTN Projects\0300\369,007 - Ashoken Rail Trail\MSTN\PS&E Plans\403.369007001 Butternut Excavation.dgn
DATE = 2/19/2018
TIME = 11:36:30 AM

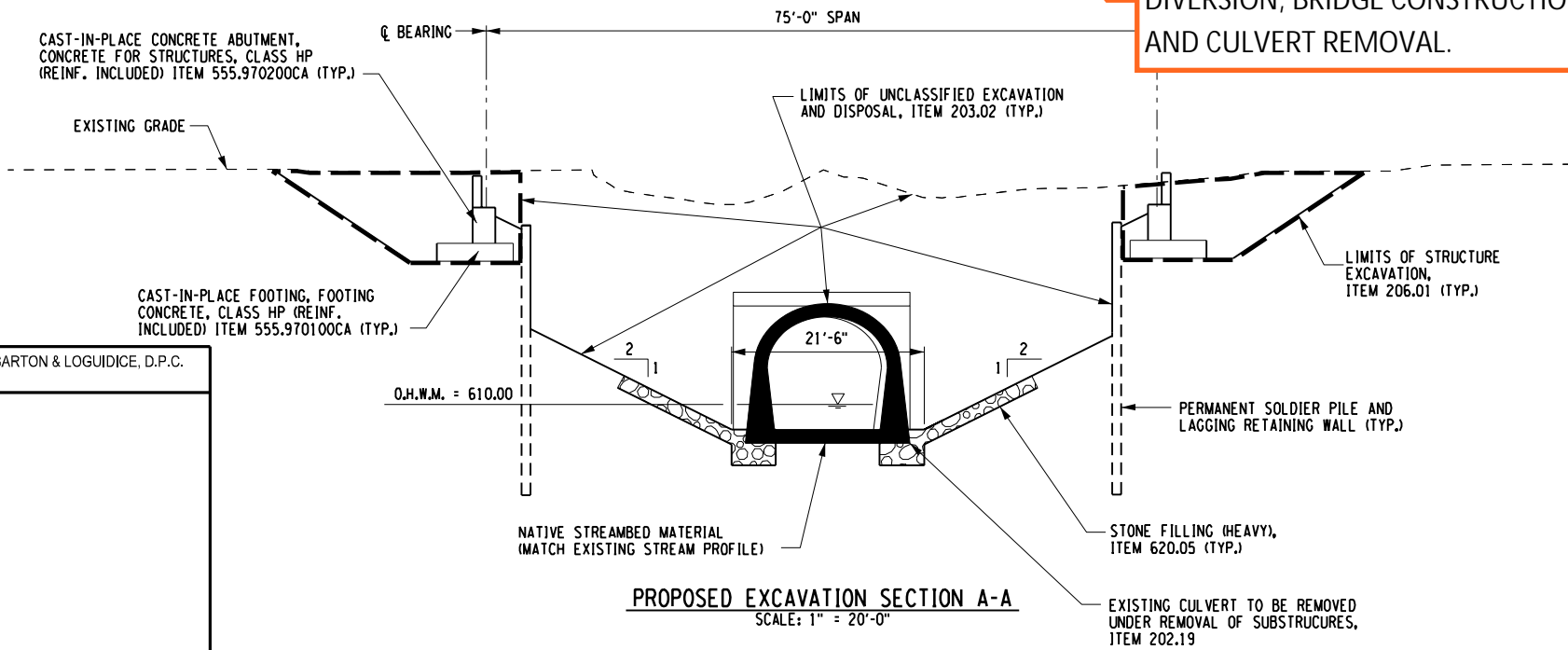
IN CHARGE OF
DESIGNED BY
CHECKED BY
DRAFTED BY
CHECKED BY

cmh
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT_SIZE_B - HPM712.dwg
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT_SIZE_B - HPM712.dwg



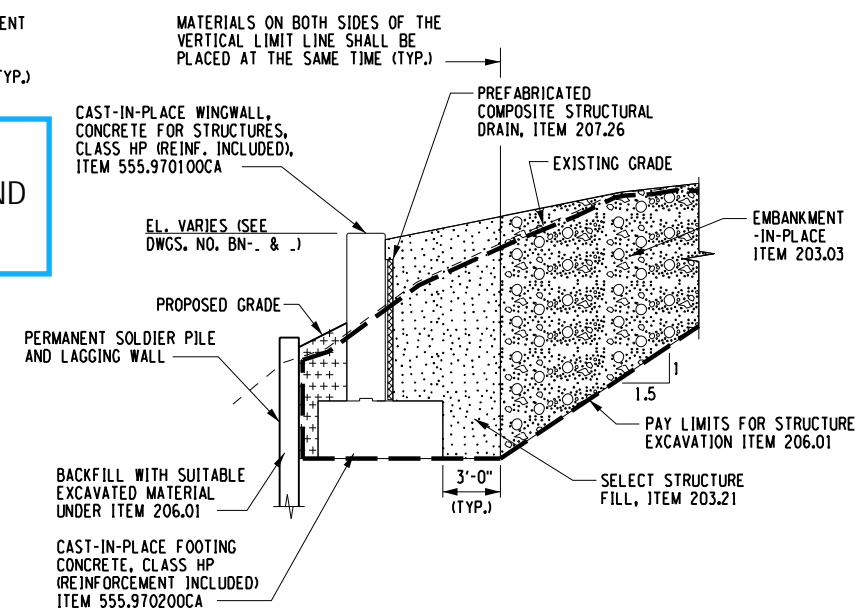
PROPOSED EXCAVATION PLAN
SCALE: 1" = 20'-0"

TEMPORARY IMPACT DUE TO STREAM DIVERSION, BRIDGE CONSTRUCTION AND CULVERT REMOVAL.



PROPOSED EXCAVATION SECTION A-A
SCALE: 1" = 20'-0"

LEGEND	
	REMOVAL OF SUBSTRUCTURE ITEM 202.19
	STONE FILL (MEDIUM), ITEM 620.04
	SELECT STRUCTURE FILL ITEM 203.21
	EMBANKMENT-IN-PLACE ITEM 203.03
	BACKFILL WITH SUITABLE EXCAVATED MATERIAL UNDER ITEM 206.01
	LIMITS OF STRUCTURE EXCAVATION, ITEM 206.01
	TEMPORARY WATER DIVERSION STRUCTURE, ITEM 553.030001
	TEMPORARY WATER DIVERSION STRUCTURE, ITEM 553.030002
	FIBER LOGS, TYPE II, 12 INCH ITEM 209.2012--10
	PERMANENT SOLDIER PILE AND LAGGING WALL, ITEMS 552.2103, 552.2203, AND 552.230301



EXCAVATION SECTION B
N.T.S.
(N.E. WINGWALL SHOWN, REMAINING WINGWALLS SIMILAR)

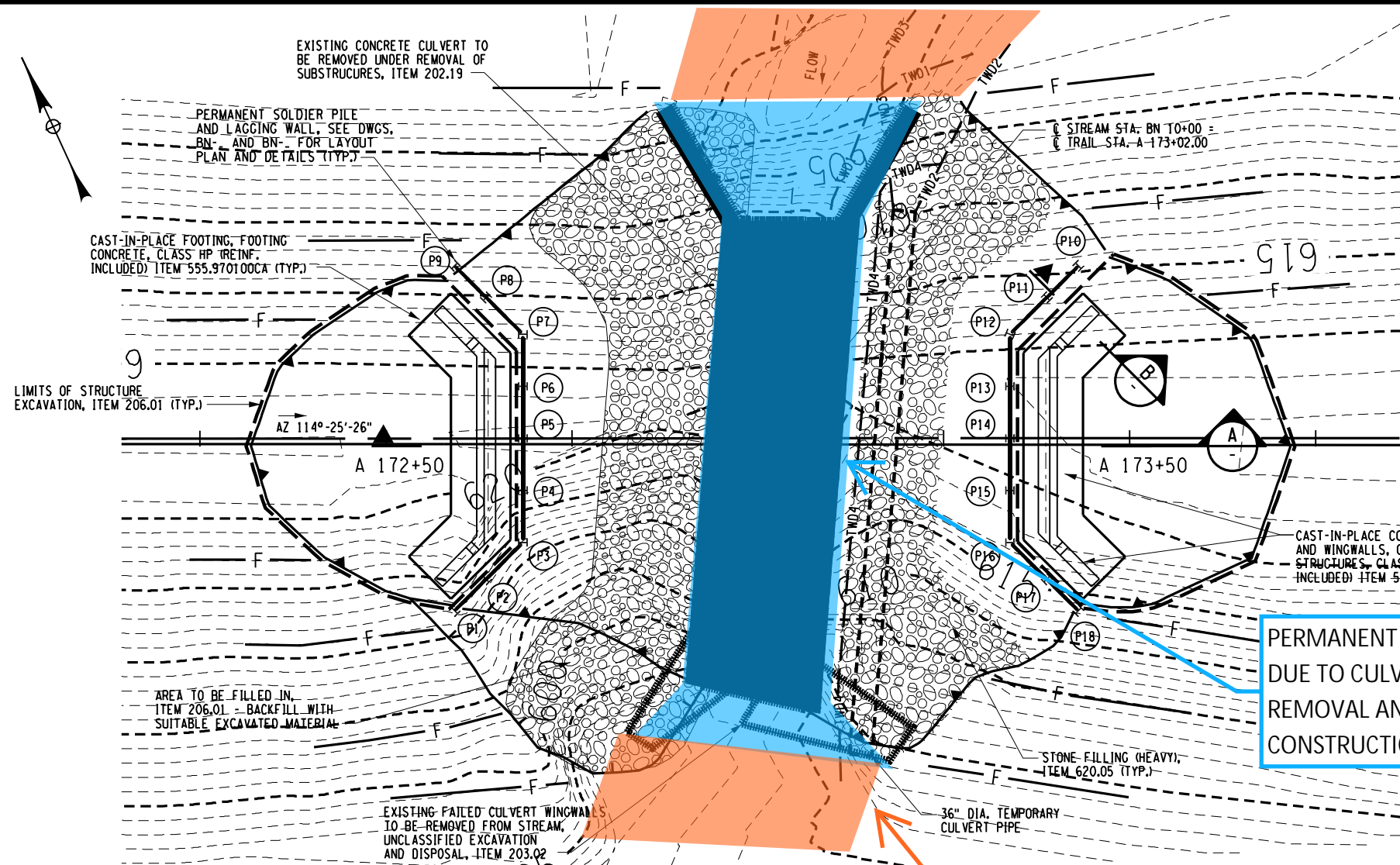
- NOTES:
1. SEE DWG. PL-24 FOR PROFILE INFORMATION.
 2. SEE DWG. ESCP-24 FOR GRADING PLAN.
 3. THE AREAS SURROUNDING THE CULVERT SHALL BE PROTECTED DURING CONCRETE REMOVALS BY THE INSTALLATION OF A CLASS B CONTAINMENT SYSTEM, ITEM 570.160001. DEBRIS FROM REMOVALS SHALL NOT BE ALLOWED TO ENTER THE AIR, WATER OR REMAIN ON SITE POST DEMOLITION OF THE CULVERT.





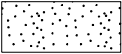




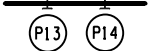
SURVEY AND MAPPING PROVIDED BY:
BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

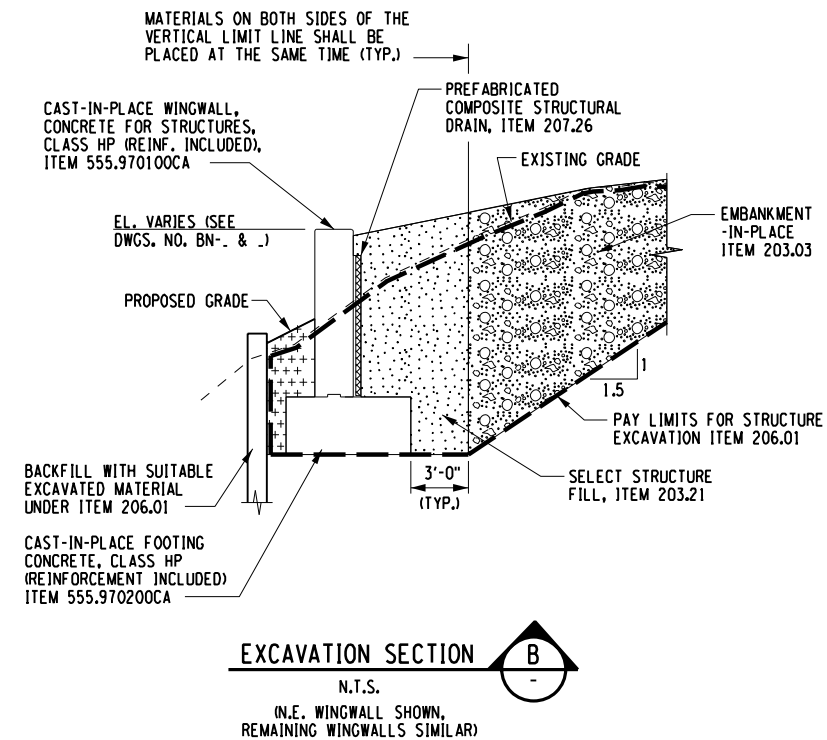
NO. DATE BY REVISION	
XX	
Barton & Loguidice, D.P.C.	
ASHOKAN RAIL TRAIL	BUTTERNUT COVE
STRUCTURE REPLACEMENT	
ULSTER COUNTY	
BRIDGE EXCAVATION PLAN AND SECTION	
SCALE: AS SHOWN	
DATE ISSUED: 1/2018	
DRAWING BN-2	

FILE NAME = L:\MSTN Projects\0300\369,007 - Ashoken Rail Trail\MSTN\PS&E Plans\403.369007001 Butternut Excavation.dgn
DATE = 2/16/2018
TIME = 4:34:34 PM

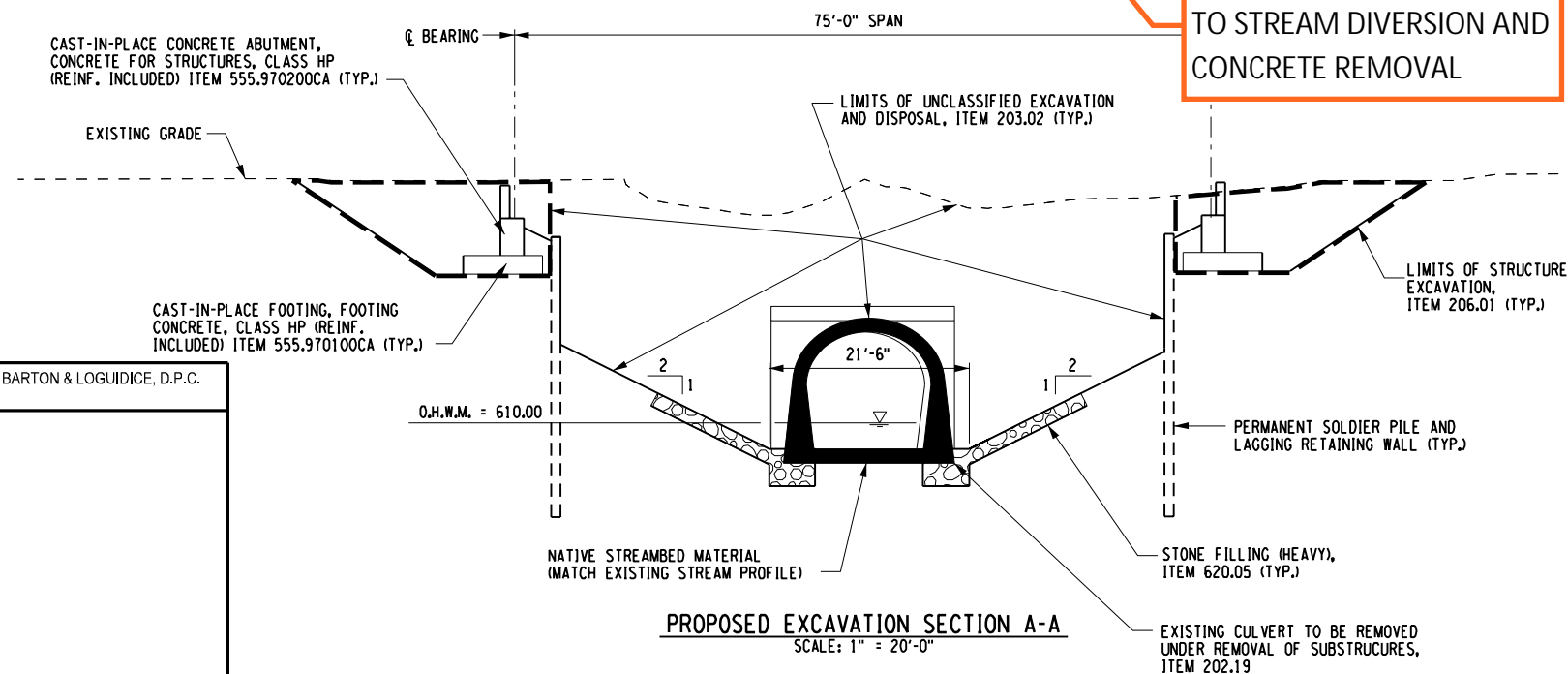
IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



LEGEND			
	REMOVAL OF SUBSTRUCTURE ITEM 202.19		LIMITS OF STRUCTURE EXCAVATION, ITEM 206.01
	STONE FILL (MEDIUM), ITEM 620.04		TEMPORARY WATER DIVERSION STRUCTURE, ITEM 553.030001
	SELECT STRUCTURE FILL ITEM 203.21		TEMPORARY WATER DIVERSION STRUCTURE, ITEM 553.030002
	EMBANKMENT-IN-PLACE ITEM 203.03		FIBER LOGS, TYPE II, 12 INCH ITEM 209.2012--10
	BACKFILL WITH SUITABLE EXCAVATED MATERIAL UNDER ITEM 206.01		PERMANENT SOLDIER PILE AND LAGGING WALL, ITEMS 552.2103, 552.2203, AND 552.230301



- NOTES:
1. SEE DWG. PL-24 FOR PROFILE INFORMATION.
 2. SEE DWG. ESCP-24 FOR GRADING PLAN.



SURVEY AND MAPPING PROVIDED BY:

BROOKS & BROOKS, PC
SURVEYING, PLANNING, GIS

Barton & Loguidice, D.P.C.

ASHOKAN RAIL TRAIL
BUTTERNUT COVE
STRUCTURE REPLACEMENT
ULSTER COUNTY

BRIDGE
EXCAVATION PLAN
AND SECTION

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BN-2

NO. DATE BY REVISION



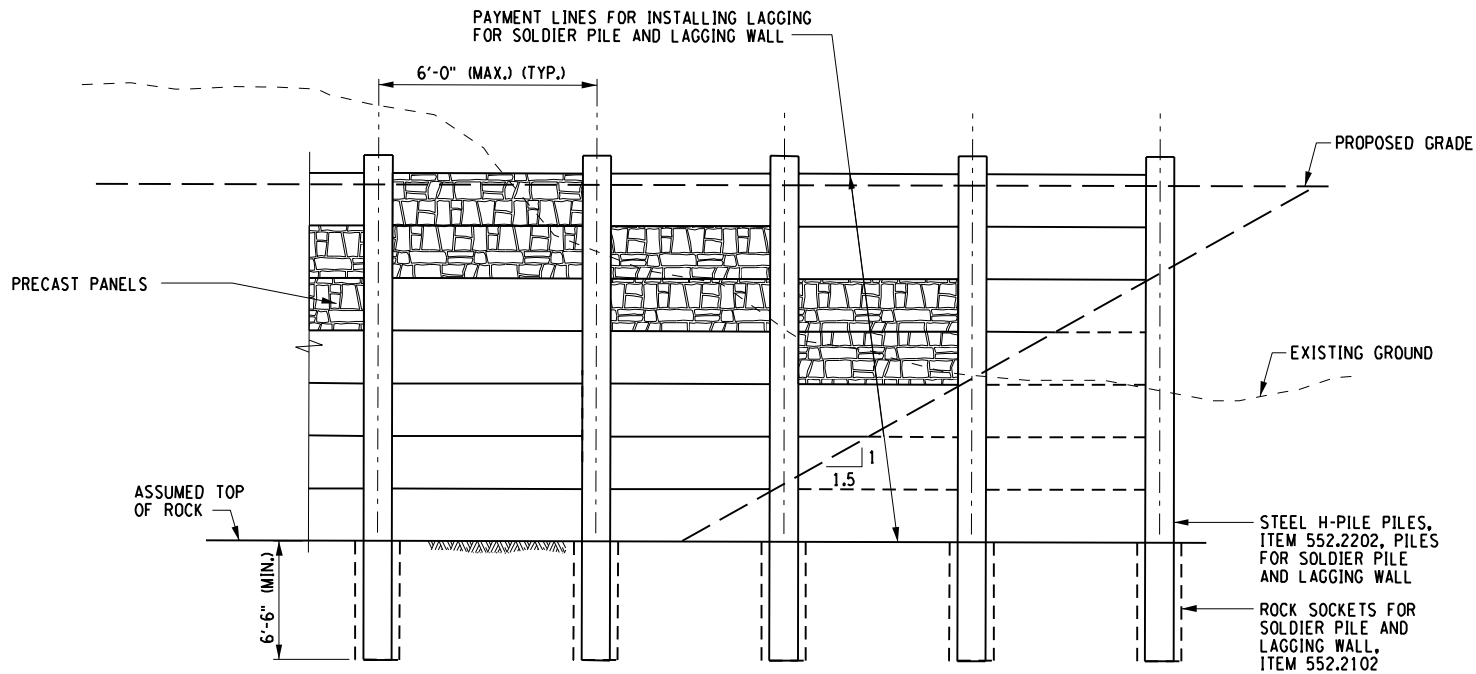
UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

XX

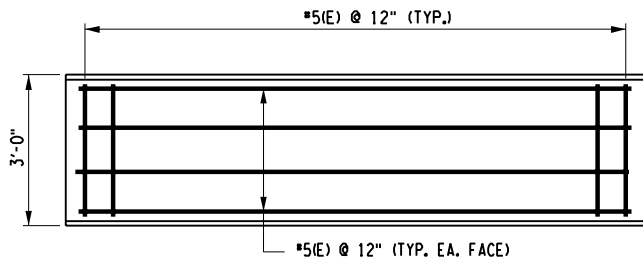
FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\407_369007001 Logging Wall Details.dgn
DATE = 2/16/2018
TIME = 4:34:39 PM

cmh
L:\MicroStationWorkspace\Plot\NYSOOT\NYSOOT_SIZE_B - HPM712.tbl
L:\MicroStationWorkspace\Plot\NYSOOT\NYSOOT.LJ5000.B.04.00.plt

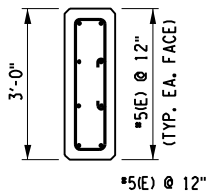
IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



PARTIAL ELEVATION - SOLDIER PILE AND LAGGING WALL
N.T.S.



ELEVATION



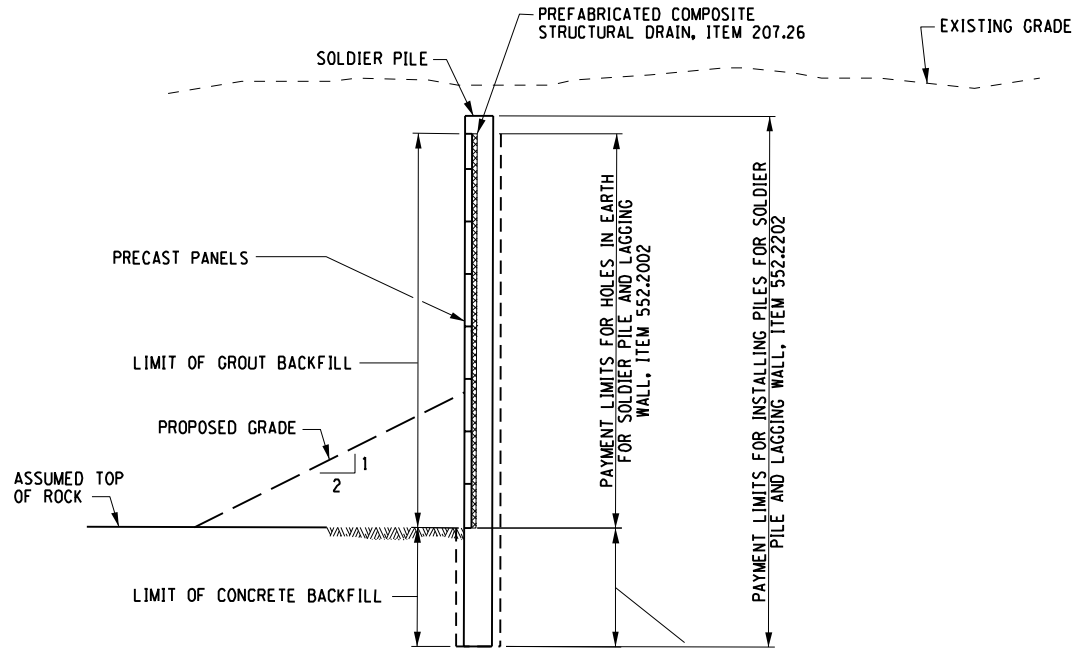
SECTION

PRECAST CONCRETE LAGGING DETAILS
N.T.S.

PRECAST PANEL NOTES:

1. CONTRACTOR SHALL VERIFY ALL FIELD ELEVATIONS AND DIMENSIONS PRIOR TO MANUFACTURING THE PRECAST PANELS.
2. CONTRACTOR MAY ADJUST THE HEIGHT OF THE PRECAST PANELS, WITH APPROVAL BY THE ENGINEER.
3. A WEDGE SHALL BE INSTALLED BEHIND EACH PANEL TO ENSURE THE PANEL IS TIGHT TO THE PILE FLANGE PRIOR TO SETTING THE NEXT PANEL.

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :



SECTION
N.T.S.

NOTES:

1. THE SOLDIER PILE AND LAGGING WALL SHOWN WILL BE LEFT IN PLACE. USED MATERIAL IS NOT PERMITTED FOR ITEM 552.2203, INSTALLING SOLDIER PILES FOR SOLDIER PILE AND LAGGING WALL.
2. PROVIDE SOLDIER PILE SECTIONS MEETING THE REQUIREMENTS OF ASTM 572, GRADE 50 STEEL.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PILE TOP ELEVATIONS.
4. SEE DWG. BN-2 FOR SOLDIER PILE LOCATIONS.

PILE NUMBER	STATION	OFFSET (FEET)	PILE TOP ELEVATIONS (FEET)	ESTIMATED PILE TIP ELEV. (FEET)	ESTIMATED PILE LENGTH (FEET)	MINIMUM PILE SECTION	AS-BUILT PILE LENGTH (FEET)
P1	172+59.23	24.44'; LT.					
P2	172+63.47	18.96'; LT.					
P3	172+68.42	12.00'; LT.					
P4	172+68.42	6.00'; LT.					
P5	172+68.42	0.00'					
P6	172+68.42	6.00'; RT.					
P7	172+68.42	12.00'; RT.					
P8	172+63.47	18.96'; RT.					
P9	172+59.23	24.44'; RT.					
P10	A 173+43.10	24.44'; LT.					
P11	A 173+38.86	18.96'; LT.					
P12	A 173+33.92	12.00'; LT.					
P13	A 173+33.92	6.00'; LT.					
P14	A 173+33.92	0.00'					
P15	A 173+33.92	6.00'; RT.					
P16	A 173+33.92	12.00'; RT.					
P17	A 173+38.86	18.96'; RT.					
P18	A 173+43.10	24.44'; RT.					



Barton & Loguidice, D.P.C.

ASHOKAN RAIL TRAIL
BUTTERNUT COVE
STRUCTURE REPLACEMENT
ULSTER COUNTY

SOLDIER PILE AND LAGGING WALL DETAILS

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BN-3

NO. DATE BY REVISION

XX

FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\409_369007001 Abut 1 PLEL.dgn
DATE = 2/16/2018
TIME = 4:34:42 PM

cmh
L:\MicroStationWorkspace\Plot\NYSOOT\NYSOOT_SIZE_B - HPM712.tbl
L:\MicroStationWorkspace\Plot\NYSOOT\NYSOOT.LJ5000.B.04.006.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

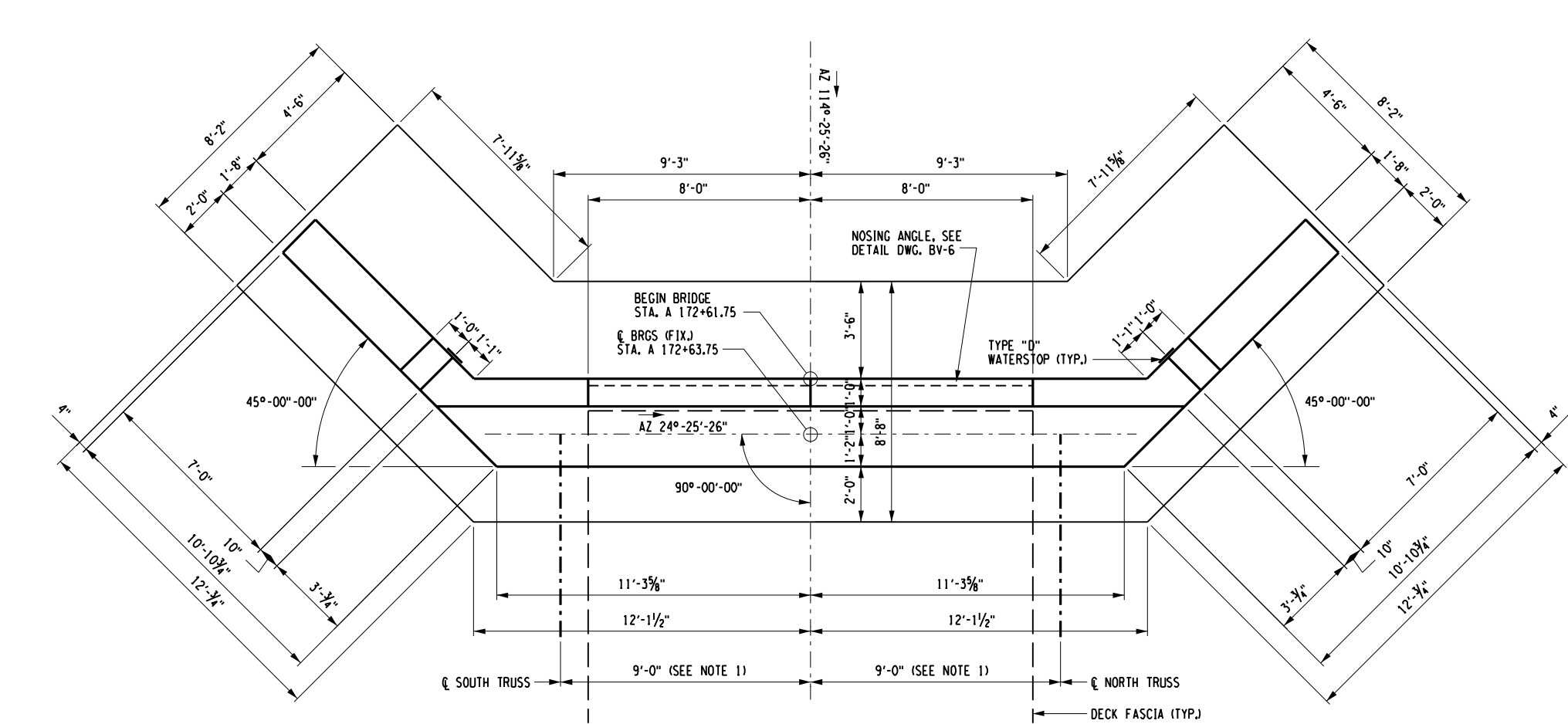
NOTES:

1. THE DISTANCE BETWEEN THE \odot OF TRUSS BEARINGS SHALL BE ADJUSTED AS NECESSARY BASED UPON THE ACTUAL TRUSS SUPPLIED BY THE FABRICATOR. IF SUPPLIED TRUSS DISTANCE BETWEEN \odot BEARINGS IS GREATER THAN SHOWN, THESE DIMENSIONS SHALL BE ADJUSTED ACCORDINGLY.
2. FOR KEYWAY AND WATERSTOP DETAILS, SEE DRAWING BN-7.
3. ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED 1", UNLESS NOTED OTHERWISE.
4. ELEVATIONS ARE BASED ON THE ASSUMED TOP OF FLOORBEAM ELEVATION AND THE ASSUMED DIMENSION OF MEASURED FROM THE TOP OF THE FLOORBEAM TO THE BOTTOM OF THE TRUSS SHOE AT \odot BEARINGS. ELEVATIONS SHALL BE MODIFIED AS NECESSARY, WITH APPROVAL BY THE ENGINEER, BASED UPON THE ACTUAL TRUSS PROVIDED BY THE TRUSS MANUFACTURER.

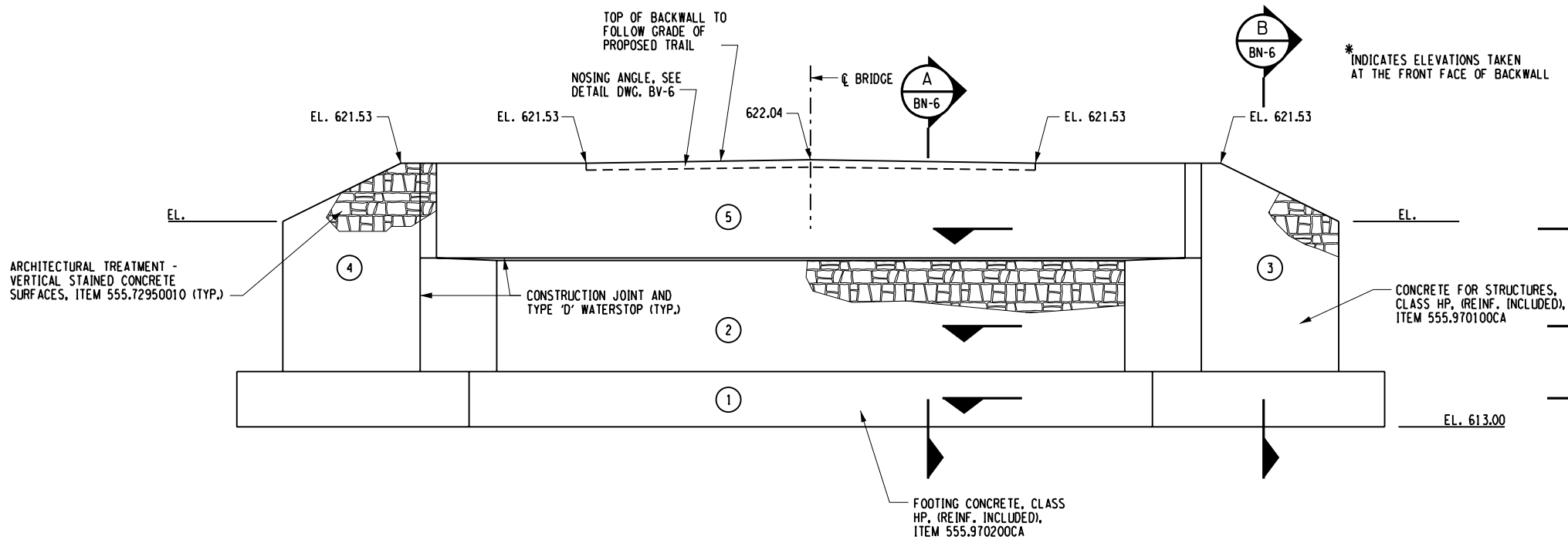
CONCRETE TABLE - WEST ABUT.

PLACEMENT	QUANTITY (CY)	ITEM NO.
1	X	555.970200CA
2	X	555.970100CA
3	X	555.970100CA
4	X	555.970100CA
5	X	555.970100CA

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :



WEST ABUTMENT PLAN
SCALE: $\frac{3}{8}$ " = 1'-0"



WEST ABUTMENT ELEVATION
SCALE: $\frac{3}{8}$ " = 1'-0"



Barton
B&L
Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL

BUTTERNUT COVE

STRUCTURE REPLACEMENT

ULSTER COUNTY

WEST
ABUTMENT
PLAN AND
ELEVATION

SCALE: AS SHOWN

DATE ISSUED: 1/2018

DRAWING

BN-4

NO. DATE BY REVISION

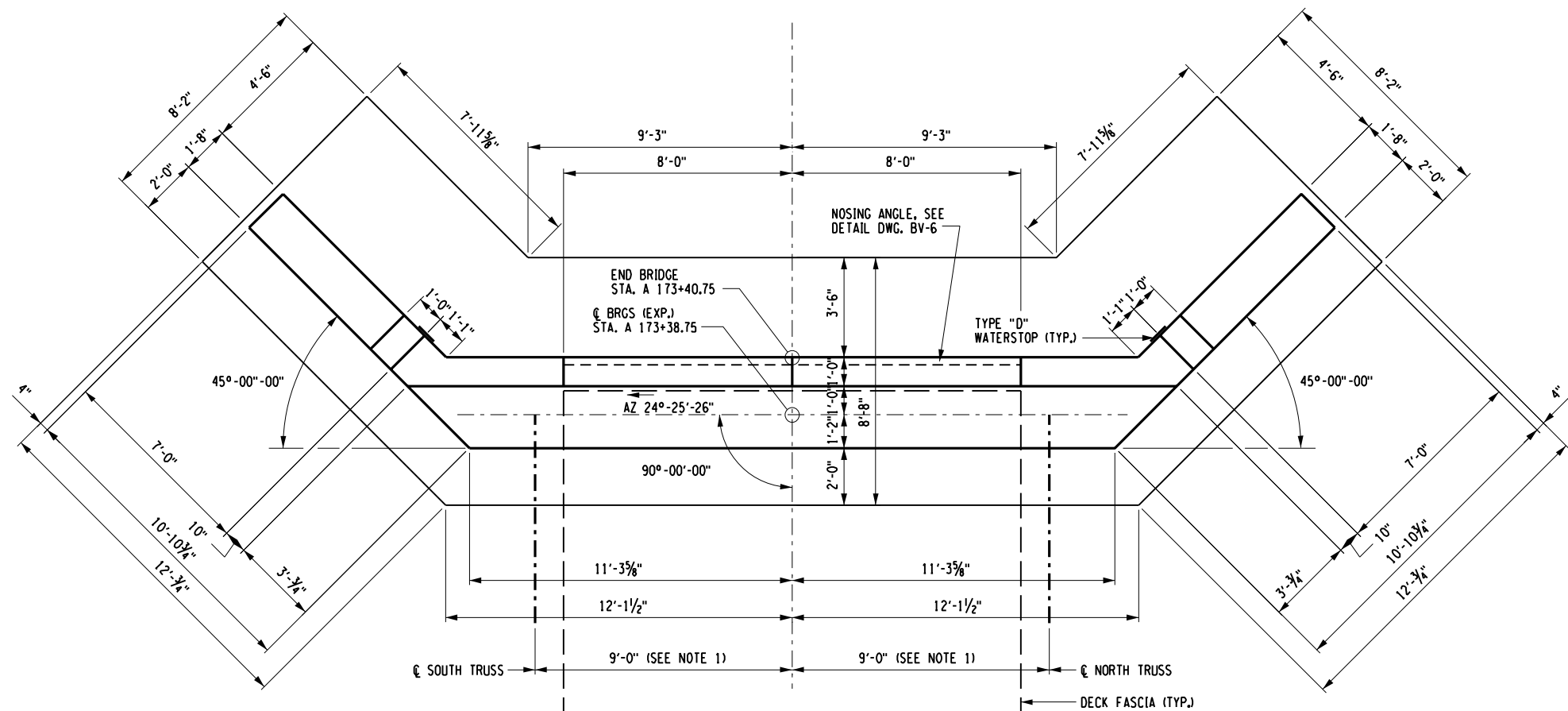
XX

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____
DRAFTED BY _____ CHECKED BY _____

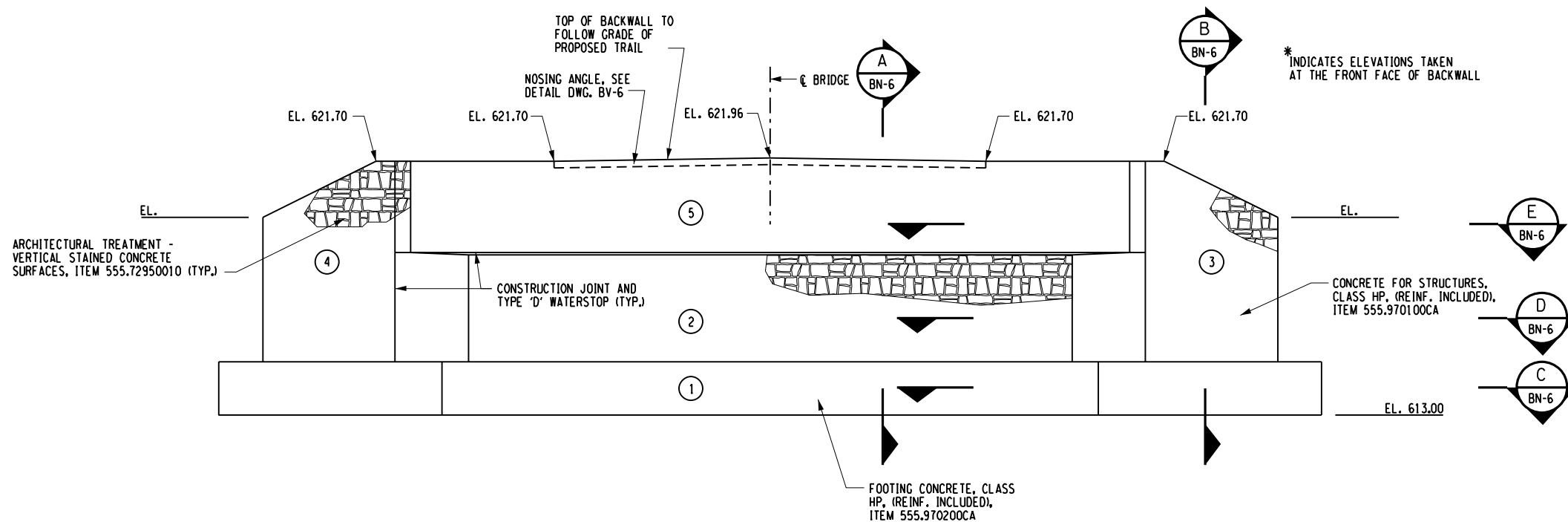
NOTES:

1. THE DISTANCE BETWEEN THE C OF TRUSS BEARINGS SHALL BE ADJUSTED AS NECESSARY BASED UPON THE ACTUAL TRUSS SUPPLIED BY THE FABRICATOR, IF SUPPLIED TRUSS DISTANCE BETWEEN C BEARINGS IS GREATER THAN SHOWN, THESE DIMENSIONS SHALL BE ADJUSTED ACCORDINGLY.
2. FOR KEYWAY AND WATERSTOP DETAILS, SEE DRAWING BN-7.
3. ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED 1", UNLESS NOTED OTHERWISE.
4. ELEVATIONS ARE BASED ON THE ASSUMED TOP OF FLOORBEAM ELEVATION AND THE ASSUMED DIMENSION OF ----- MEASURED FROM THE TOP OF THE FLOORBEAM TO THE BOTTOM OF THE TRUSS SHOE AT C BEARINGS. ELEVATIONS SHALL BE MODIFIED AS NECESSARY, WITH APPROVAL BY THE ENGINEER, BASED UPON THE ACTUAL TRUSS PROVIDED BY THE TRUSS MANUFACTURER.

CONCRETE TABLE - EAST ABUT.		
PLACEMENT	QUANTITY (CY)	ITEM NO.
1	X	555.970200CA
2	X	555.970100CA
3	X	555.970100CA
4	X	555.970100CA
5	X	555.970100CA



EAST ABUTMENT PLAN
SCALE: $\frac{3}{8}" = 1'-0"$



EAST ABUTMENT ELEVATION
SCALE: $\frac{3}{8}" = 1'-0"$

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

NO.	DATE	BY	REVISION
-----	------	----	----------

Barton
& Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL

BUTTERNUT COVE

STRUCTURE REPLACEMENT

ULSTER COUNTY

EAST
ABUTMENT
PLAN AND
ELEVATION

SCALE: AS SHOWN

DATE ISSUED: 1/2018

DRAWING

BN-5

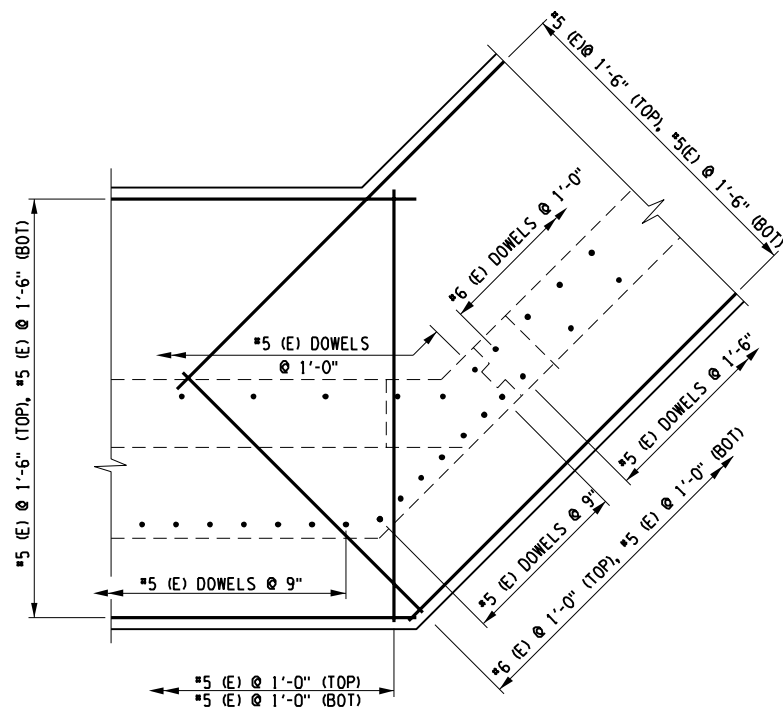
CHECKED BY

DRAFTED BY

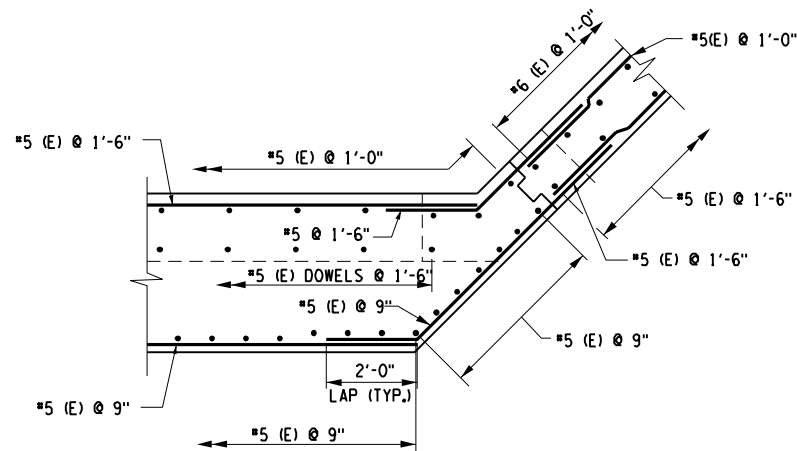
CHECKED BY

DESIGNED BY

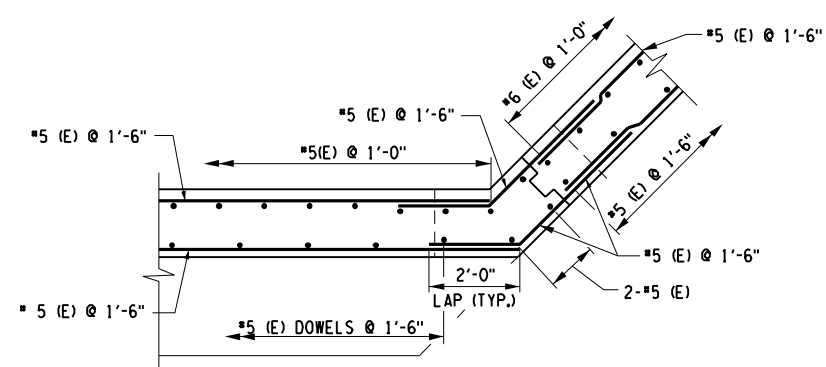
IN CHARGE OF _____



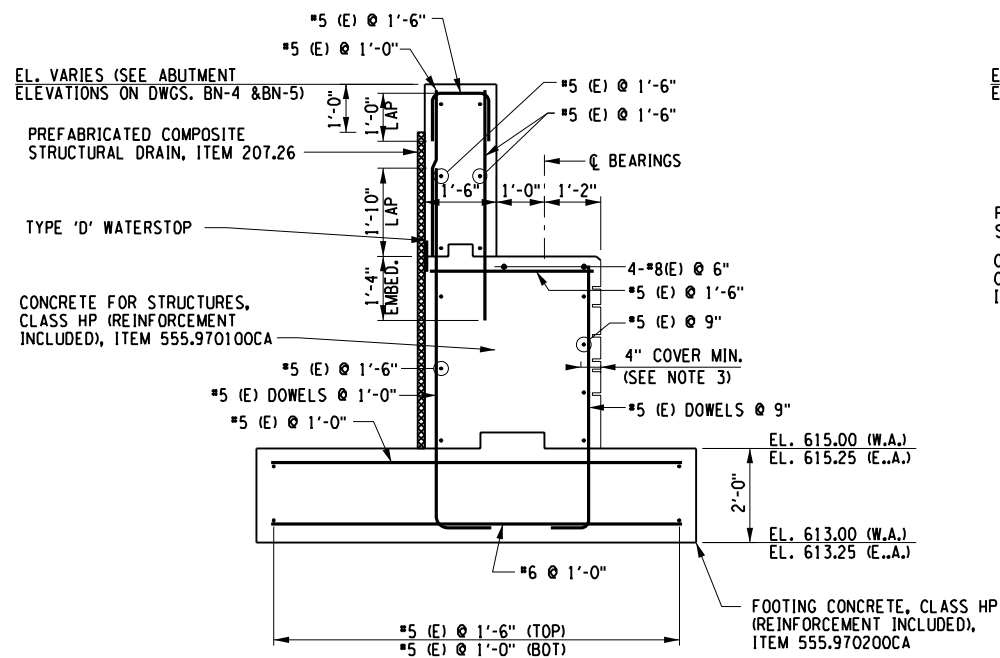
TYPICAL CORNER SECTION
(N.W. CORNER SHOWN, S.W. SIMILAR)
N.T.S.



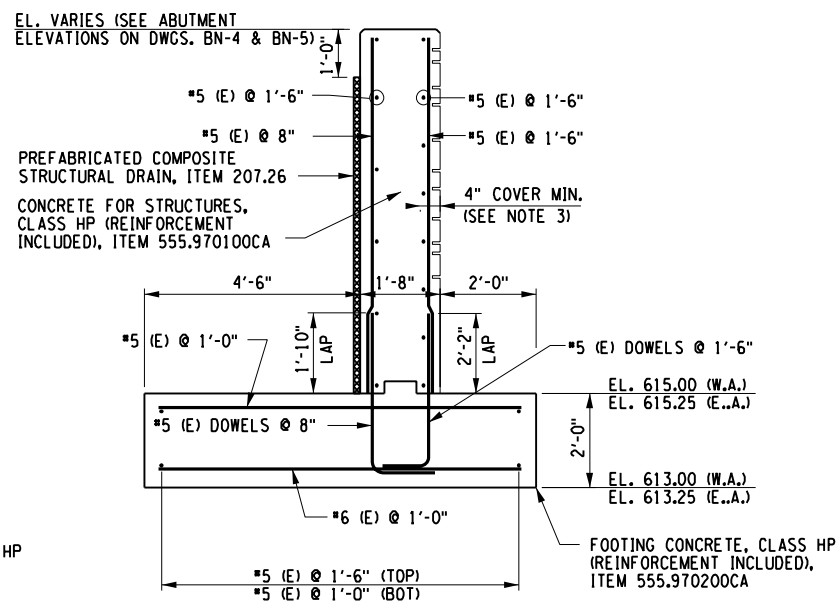
TYPICAL CORNER SECTION
(N.W. CORNER SHOWN, S.W. SIMILAR)
N.T.S.



TYPICAL CORNER SECTION
(N.W. CORNER SHOWN, S.W. SIMILAR)
N.T.S.



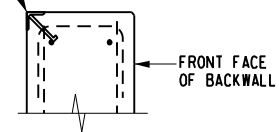
TYPICAL ABUTMENT SECTION
SCALE: 1/4" = 1'-0"



TYPICAL WINGWALL SECTION

SCALE: 1/4" = 1'-0"

3"x3"x3/8"x16'-0" LG. NOSING
ANGEL W/ 1*2"Ø x 6" LONG
ANCHOR STUDS AT 12" SPACING



BACKWALL NOSING ANGLE DETAIL
N.T.S.

NOTES:

1. ALL STEEL REINFORCING BARS SHALL BE ASTM A615, GRADE 60, UNLESS OTHERWISE NOTED.
2. COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3 INCHES UNLESS OTHERWISE NOTED. ALL OTHER COVER SHALL BE 2 INCHES UNLESS OTHERWISE NOTED.
3. 4" REINFORCEMENT COVER BASED ON A 2" REVEAL OF THE FORMLINER PATTERN. IF THE ACTUAL FORMLINER USED HAS A MAXIMUM REVEAL GREATER THAN 2", THE CONTRACTOR SHALL ADJUST THE WALL THICKNESS ACCORDINGLY TO MAINTAIN A MINIMUM REINFORCEMENT COVER OF 2" TO THE FORMLINER REVEAL.
4. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1 INCH UNLESS OTHERWISE NOTED.
5. (E) DENOTES EPOXY COATED BARS.

[illegible]Barton
& Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL
BUTTERNUT COVE
STRUCTURE REPLACEMENT
ULSTER COUNTY

TYPICAL
REINFORCEMENT
DETAILS - 1

SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BN-6

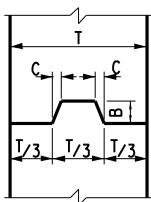
XX

FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\415.369007001 MiscDetails.dgn
DATE = 2/16/2018
TIME = 4:34:56 PM

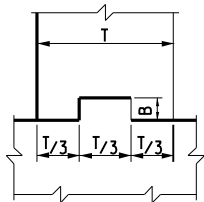
cmh
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT.LJ5000.B.04.00b.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

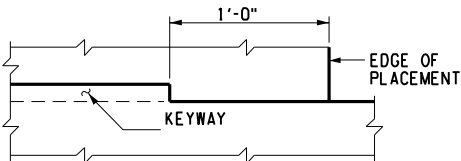
PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :



VERTICAL



HORIZONTAL



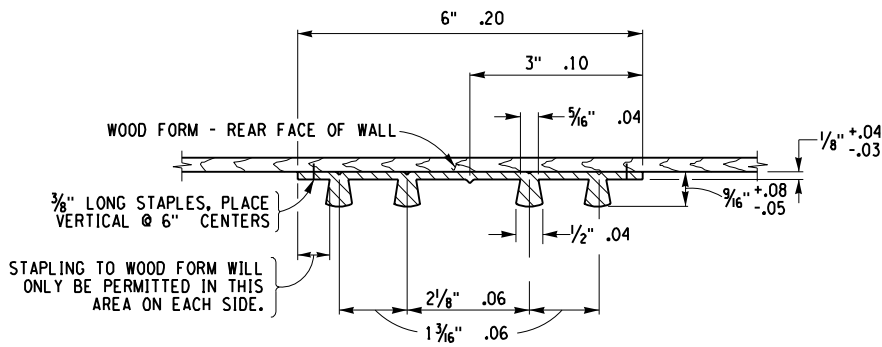
HORIZONTAL KEYWAY LOCATION

CONSTRUCTION & CONTRACTION JOINTS		
C	B	T/3
3/16"	1 1/2"	0 TO 6"
3/8"	3 1/2"	6" TO 10"
3/4"	5 1/2"	10" AND OVER

KEYWAY DETAILS
NTS

NOTE:
REINFORCEMENT AND WATERSTOPS
NOT SHOWN FOR CLARITY.

EXPANSION JOINTS		
C	B	T/3
3/8"	3 1/2"	0 TO 10"
3/4"	5 1/2"	10" AND OVER



TYPE D WATERSTOP

NOT TO SCALE

NOTES:

HOLES MUST NOT BE MADE IN WATERSTOP FOR ANY PURPOSE EXCEPT AS REQUIRED FOR STAPLING TO FORMS.

TYPE D WATERSTOP SHALL BE LIGHT GRAY IN COLOR.

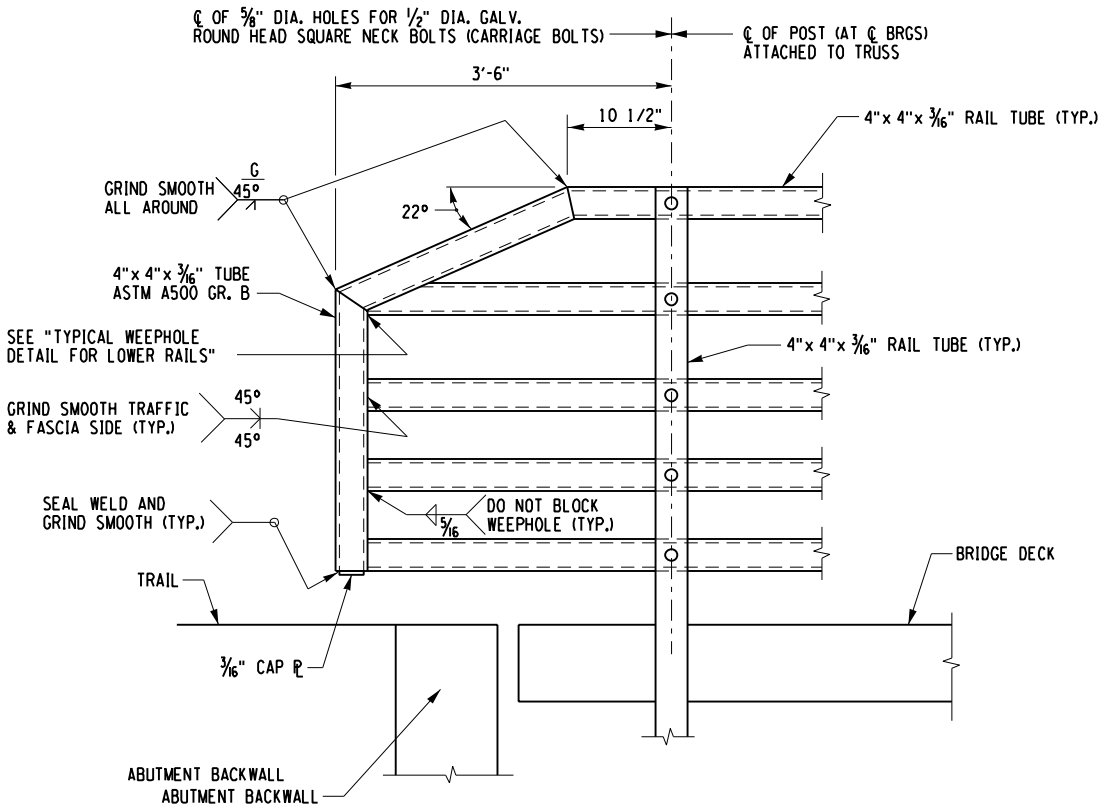
THE COST OF FURNISHING AND PLACING WATERSTOPS SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE CONCRETE ITEMS.

FIELD SPLICES SHOULD BE AVOIDED IF POSSIBLE, HOWEVER, HEAT WELDED BUTT SPLICES WILL BE PERMITTED ON LONG STRAIGHT RUNS (GENERALLY IN EXCESS OF 50 FEET) AT POINTS APPROVED BY THE ENGINEER.

WATERSTOP SHALL BE SHIPPED IN STRAIGHT SECTIONS HAVING A MINIMUM LENGTH OF 10 FEET UNLESS SHORTER LENGTHS ARE REQUIRED.

PREMOULDED RESILIENT JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF N.Y.S. STANDARD SPECIFICATION SUBSECTION 705-07.

PVC USED IN WATERSTOPS SHALL CONFORM TO THE REQUIREMENTS OF N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 705-11.



TYPICAL RAIL END ELEVATION

N.T.S.



Barton & Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL

BUTTERNUT COVE

STRUCTURE REPLACEMENT

ULSTER COUNTY

MICELLANEOUS DETAILS

SCALE: AS SHOWN

DATE ISSUED: 1/2018

DRAWING

BN-7

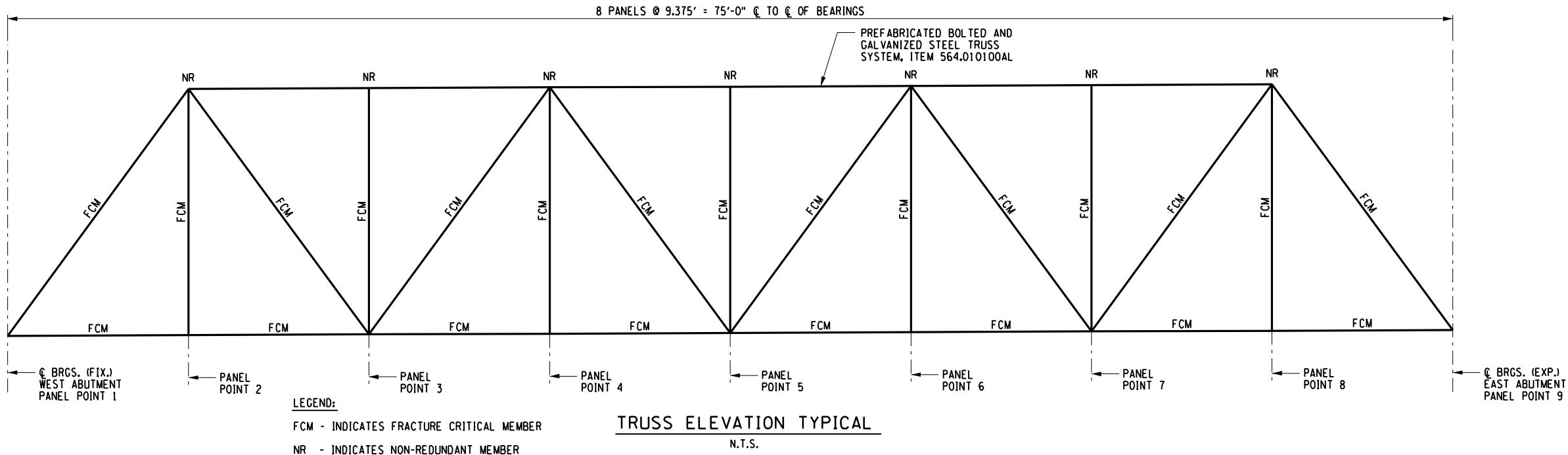
NO. DATE BY REVISION

XX

FILE NAME = L:\MSTN\Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\417-369007001 Truss Details.dgn
DATE = 2/16/2018
TIME = 4:35:00 PM

cmh
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT_SIZE_B - HPM712.tbl
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT.LJ5000.B.04.006.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



HAUNCH TABLE		CL OF BRGS. SOUTH ABUT.	PANEL POINT 2	PANEL POINT 3	PANEL POINT 4	PANEL POINT 5	PANEL POINT 6	PANEL POINT 7	PANEL POINT 8	PANEL POINT 9	CL OF BRGS. NORTH ABUT.
STRINGER 1	(A) REQ'D BOTTOM OF SLAB ELEVATION										
	(B) TOP OF STEEL EL. (FIELD MEASURE)										
	(C) = (A) - (B)										
	(D) CONCRETE + S.D.L. DEFLECTION (ft)										
	(E) DEPTH OF HAUNCH REQ'D = (C) + (D) (ft)										
STRINGER 2	(A) REQ'D BOTTOM OF SLAB ELEVATION										
	(B) TOP OF STEEL EL. (FIELD MEASURE)										
	(C) = (A) - (B)										
	(D) CONCRETE + S.D.L. DEFLECTION (ft)										
	(E) DEPTH OF HAUNCH REQ'D = (C) + (D) (ft)										
STRINGER 3	(A) REQ'D BOTTOM OF SLAB ELEVATION										
	(B) TOP OF STEEL EL. (FIELD MEASURE)										
	(C) = (A) - (B)										
	(D) CONCRETE + S.D.L. DEFLECTION (ft)										
	(E) DEPTH OF HAUNCH REQ'D = (C) + (D) (ft)										
STRINGER 4	(A) REQ'D BOTTOM OF SLAB ELEVATION										
	(B) TOP OF STEEL EL. (FIELD MEASURE)										
	(C) = (A) - (B)										
	(D) CONCRETE + S.D.L. DEFLECTION (ft)										
	(E) DEPTH OF HAUNCH REQ'D = (C) + (D) (ft)										

TRUSS DESIGN LOADS (PER TRUSS):

THE TRUSS FABRICATOR SHALL PROVIDE A STEEL SUPERSTRUCTURE CAPABLE OF SUPPORTING THE FOLLOWING UNFACTORED LOADS:

LIVE LOAD = 90 PSF AND H-20
DEAD LOAD - DECK = _____ LBS/LF
TRUSS = _____ LBS/LF (ASSUMED)

SUPERIMPOSED DEAD LOAD = _____ LBS/LF
FUTURE WEARING SURFACE = _____ LBS/LF

HORIZONTAL WIND LOADING SHALL BE DETERMINED BY THE TRUSS MANUFACTURER BASED ON ACTUAL TRUSS DIMENSIONS AND SHALL BE IN ACCORDANCE WITH THE LRFD CODE.

TRUSS NOTES:

TRUSSES SHALL BE FABRICATED USING A709 GR50 STEEL WITH A GALVANIZING COATING CONFORMING TO STANDARD SPECIFICATION 719-01. COST FOR GALVANIZING SHALL BE INCLUDED IN THE PRICE BID FOR STRUCTURAL STEEL, ITEM 564.010100AL.

TRUSS PANEL SPACING SHALL BE LESS THAN 12'-0".

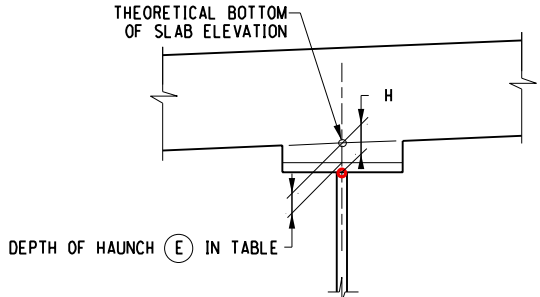
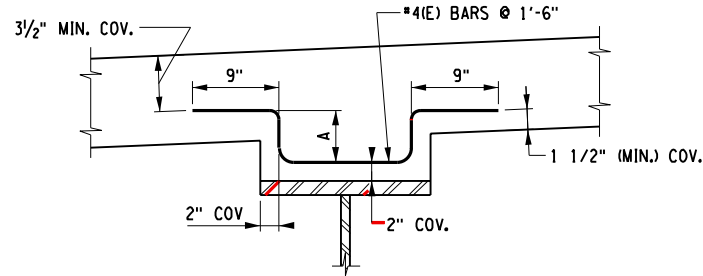
THE BRIDGE GEOMETRY IS BASED UPON A 1'-10" DIMENSION MEASURED FROM THE TOP FLOORBEAM TO THE BOTTOM OF TRUSS SHOE.

THE VALUES FOR "D" (CONCRETE + S.D.L. DEFLECTION) IN THE HAUNCH TABLE SHALL BE PROVIDED BY THE TRUSS FABRICATOR.

TRUSS FABRICATION SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF SECTION 9 OF THE CURRENT EDITION OF THE NYS STEEL CONSTRUCTION MANUAL.

STEEL TRUSS SUPERSTRUCTURE CAMBER SHALL BE LIMITED TO 2" MAXIMUM AT MID-SPAN.

SHOULD THE FABRICATOR ELECT TO USE A TRUSS WITH DIFFERENT STRINGER SPACING THAN SHOWN ON BN-9, THE VALUES FOR "A" IN THE HAUNCH TABLE SHOWN ABOVE, MAY NEED TO RECALCULATED.



HAUNCH NOTES:

- HAUNCH REINFORCEMENT SHALL BE USED WHERE HAUNCH EXCEEDS 4".
- THE DIMENSION NOTED AS "A" SHALL BE SUCH THAT THE SAME BAR CAN BE USED WHEN THE HAUNCH DEPTH VARIES.
- PAYMENT FOR ANY HAUNCH REINFORCEMENT SHALL BE INCLUDED IN ITEM 557.0103.
- FOR HAUNCH REINFORCEMENT ESTIMATING PURPOSES, THE DESIGN HAUNCH HEIGHTS ARE GIVEN IN THE TABLE BELOW.

DESIGN HAUNCH HEIGHT	
STRINGER	DESIGN HEIGHT (H)
S1	X
S2	X
S3	X
S4	X



Barton & Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL	BUTTERNUT COVE	STRUCTURE REPLACEMENT	ULSTER COUNTY
--------------------	----------------	-----------------------	---------------

TRUSS DETAILS

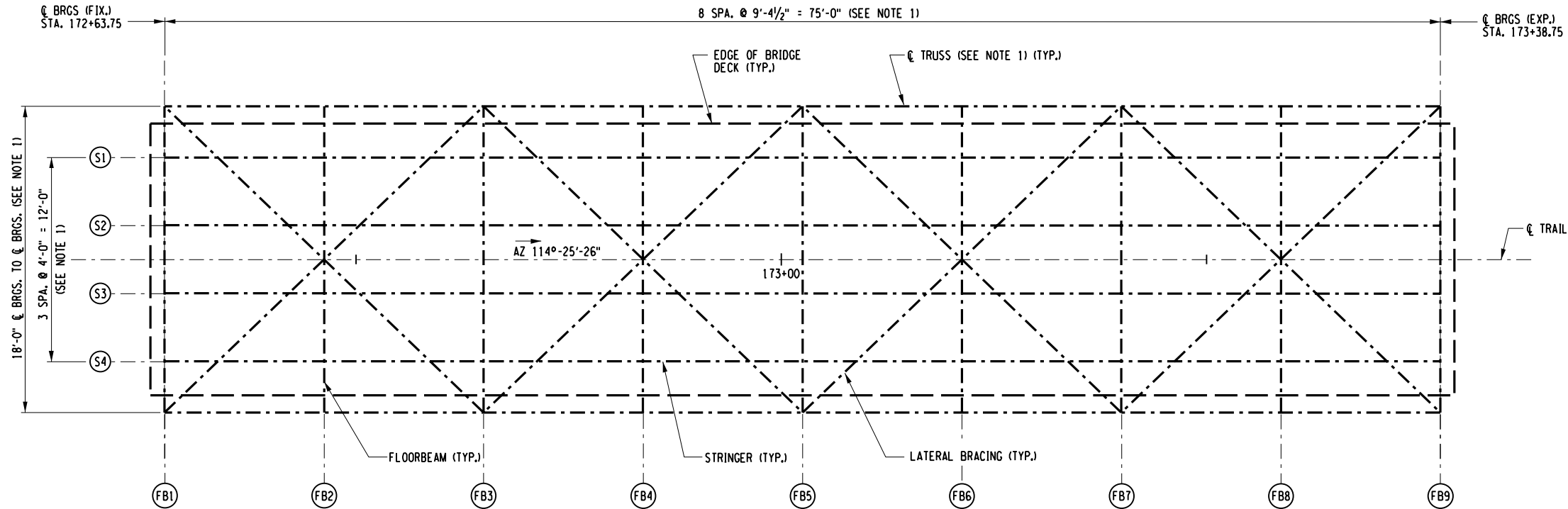
SCALE: AS SHOWN
DATE ISSUED: 1/2018
DRAWING
BN-8

FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\419_369007001_Trans Sect.dgn
DATE = 2/16/2018
TIME = 4:35:06 PM

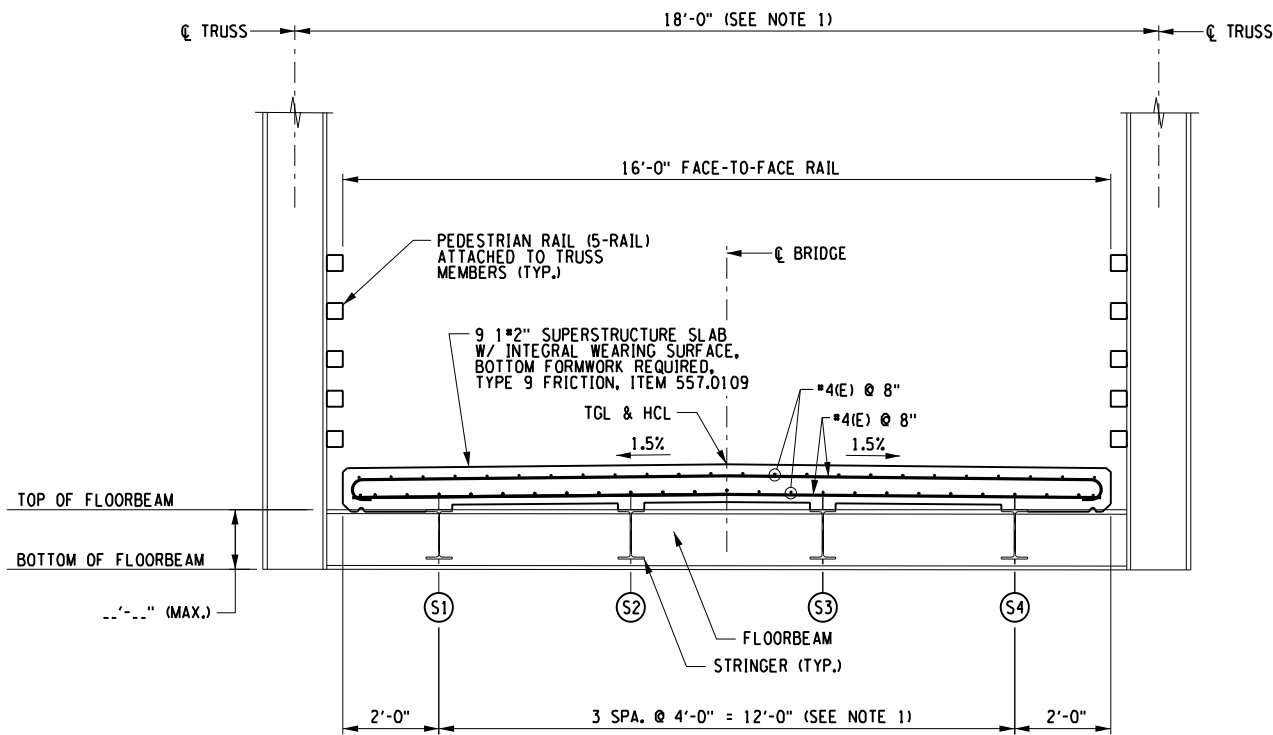
cmh
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT_SIZE_B - HPM712.tb1
L:\MicroStation\Workspace\Plot\NYSOOT\NYSOOT.LJ5000.B.04.00.plt

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON : _____



FRAMING PLAN
SCALE: 1/8" = 1'-0"



TRANSVERSE BRIDGE SECTION
SCALE: 1/4" = 1'-0"

NOTES:

1. THESE DIMENSIONS SHALL BE ADJUSTED AS NECESSARY BASED UPON THE ACTUAL TRUSS SUPPLIED BY THE FABRICATOR.
2. SEE ADDITIONAL TRUSS NOTES ON DWG. BN-8 AND ADDITIONAL SUPERSTRUCTURE NOTES ON DWG. BGN-1.
3. DECK REINFORCEMENT DESIGN IS BASED ON THE TRUSS SYSTEM CONFIGURATION SHOWN. ALTERATIONS TO THE TRUSS CONFIGURATION, INCLUDING, BUT NOT LIMITED TO, STRINGER SPACING AND OVERHANG WIDTH, MAY RESULT IN THE NEED FOR THE DECK REINFORCEMENT TO BE RE-DESIGNED. IF NECESSARY, THE DECK RE-DESIGN SHALL BE COMPLETED AND STAMPED BY A NYS PROFESSIONAL ENGINEER AT THE EXPENSE OF THE CONTRACTOR.



Barton & Loguidice, D.P.C.

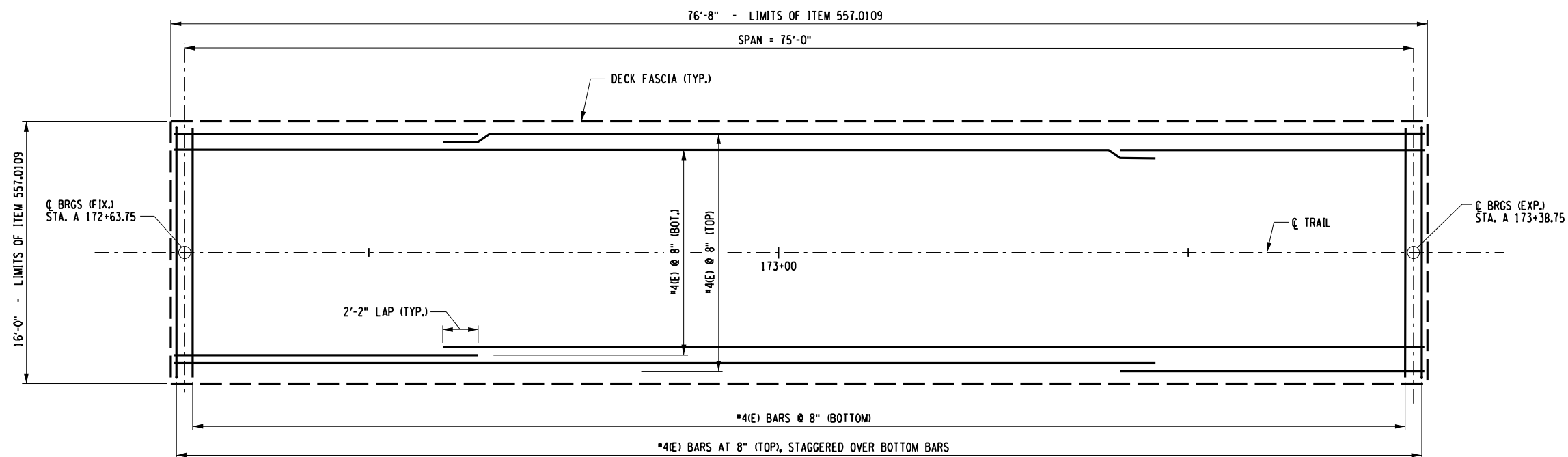
UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL	BUTTERNUT COVE	STRUCTURE REPLACEMENT	ULSTER COUNTY
--------------------	----------------	-----------------------	---------------

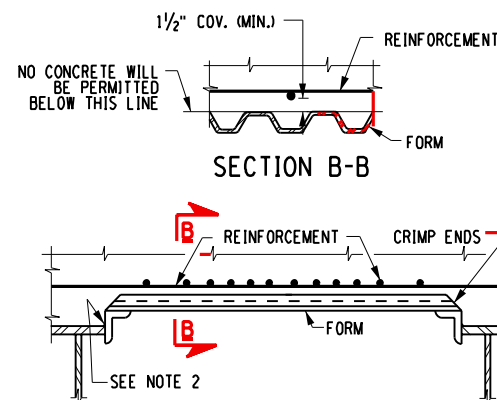
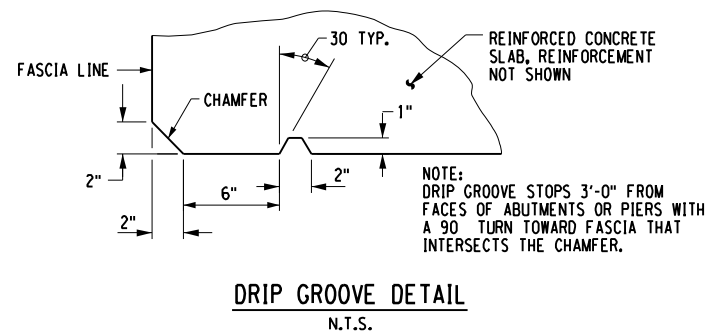
FRAMING PLAN AND TRANSVERSE SECTION	
SCALE: AS SHOWN	
DATE ISSUED: 1/2018	
DRAWING BN-9	

NO. DATE BY REVISION

XX



DECK REINFORCEMENT PLAN
SCALE: 1/8" = 1'-0"

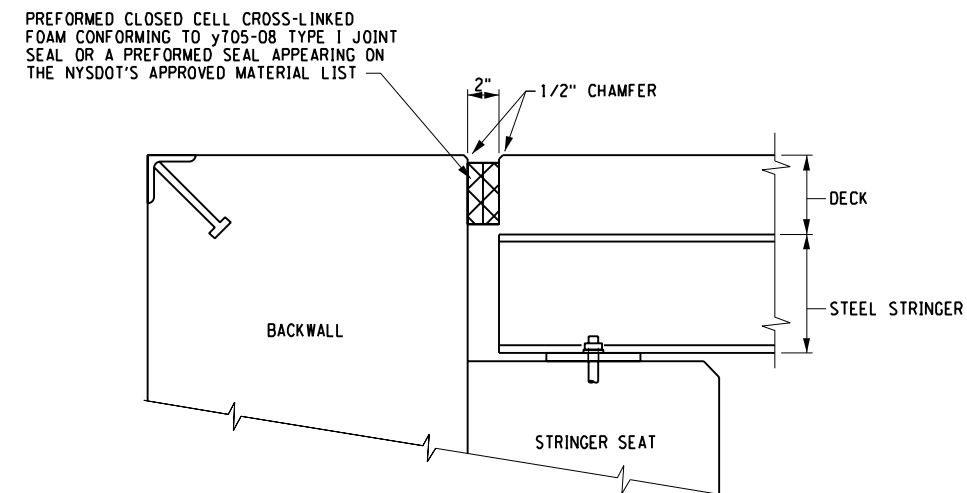


PERMANENT CORRUGATED METAL FORM DETAIL
NOT TO SCALE

NOTES:

FORM UNIT NOTES:

1. THE COST OF THE FORMING SYSTEM SHOWN ON THIS DRAWING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SUPERSTRUCTURE SLAB CONCRETE ITEM.
2. TACK WELDS SHALL BE ALLOWED IN THE COMPRESSION AREA OF THE STRINGER'S TOP FLANGE ONLY. FOR CONTINUOUS STRUCTURES, SEE STRINGER DETAILS FOR LIMITS OF TENSION ZONES FOR THE TOP FLANGE. WELDING SHALL CONFORM TO SECTION 7 OF THE N.Y.S. STEEL CONSTRUCTION MANUAL, (3/4" DIA. E7018 OR E8018-C3 ELECTRODES, PROPERLY CONDITIONED, SHALL BE USED.)
3. THE SUPPORT ANGLES AND/OR ZEES SHALL BE GALVANIZED IN ACCORDANCE WITH MATERIAL SPECIFICATION T19-01.



END OF DECK DETAIL
N.T.S.

[illegible]Barton
& Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW, ARTICLE 145, SECTION 7209

ASHOKAN RAIL TRAIL

BUTTERNUT COVE

STRUCTURE REPLACEMENT

WULSTER COUNTY

DECK REINFORCEMENT PLAN AND DETAILS

SCALE: AS SHOWN

DATE ISSUED: 1/2018

DRAWING

BN-10

FILE NAME = L:\MSTN Projects\0300\369.007 - Ashoken Rail Trail\MSTN\PS&E Plans\425.369007001 Bearing Details Fixed.dgn
DATE = 2/16/2018
TIME = 4:35:18 PM

L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_SIZE_B - HPM712.tbl

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____

FIXED ELASTOMERIC BEARING (TYPE E.B.) TABLE																						
LOCATION	ITEM NO.	QUANTITY REQUIRED	DL + SDL (Kips)	LL W/O IMP. (Kips)	TOTAL DESIGN REACTION (Kips)	SHAPE FACTOR	ELASTOMER LAYERS					hrt	COMP. AREA (sq. in)	SHEAR AREA (sq. in)	MASONRY PLATE							WELD SIZE
							THK/LAYER	N LAYERS	L	W	D				Wm	Lm	Tm	Et	Ei	Ez	sm	
W. ABUT.																						

* ASSUMED DEAD LOAD VALUES. CONTRACTOR TO PROVIDE ACTUAL STEEL TRUSS WEIGHT TO THE ENGINEER PRIOR TO MANUFACTURING BEARINGS.

TABLE DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

* T2 IS UPSTATION OF T1
* TM1 SHALL BE OREINTATED TOWARD CL OF THE BRIDGE

BEARING NOTES:

THE BEARINGS SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 565 UNLESS OTHERWISE NOTED.

ALL ELASTOMER SHALL BE 50 DUROMETER HARDNESS ON THE SHORE A SCALE.

ALL STEEL EXCEPT THE INTERNAL STEEL PLATES SHALL CONFORM TO ASTM A709, GR. 50, UNLESS OTHERWISE NOTED. STEEL SOLE PLATES AND STEEL MASONRY PLATES SHALL BE GALVANIZED IN ACCORDANCE WITH SUBSECTION 719-01.

FIELD GALVANIZING REPAIRS SHALL BE PERFORMED IN AREAS DAMAGED FROM WELDING THE TRUSS SHOE PLATE TO THE BEARING SOLE PLATE. FIELD GALVANIZING REPAIRS SHALL BE MADE IN ACCORDANCE WITH SUBSECTION 719-01, "GALVANIZED COATINGS AND REPAIR METHODS".

BEARING PADS SHALL CONFORM TO ONE OF THE FOLLOWING MATERIAL SPECIFICATIONS: 728-01, 728-02 OR 728-03.

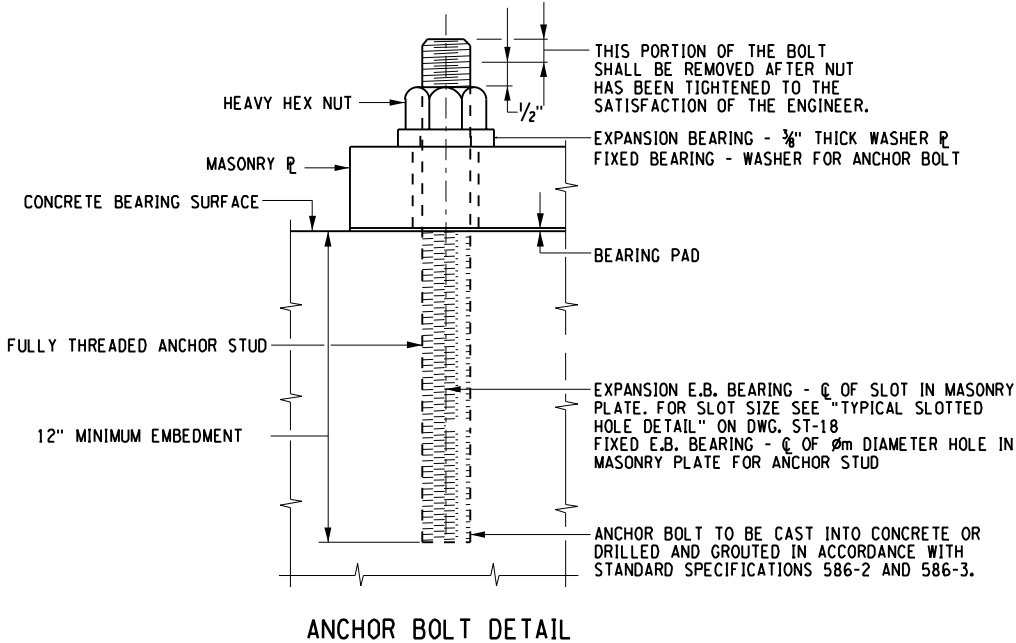
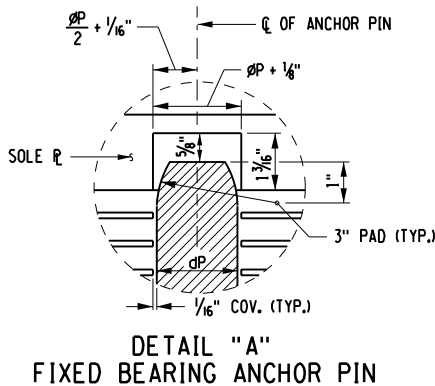
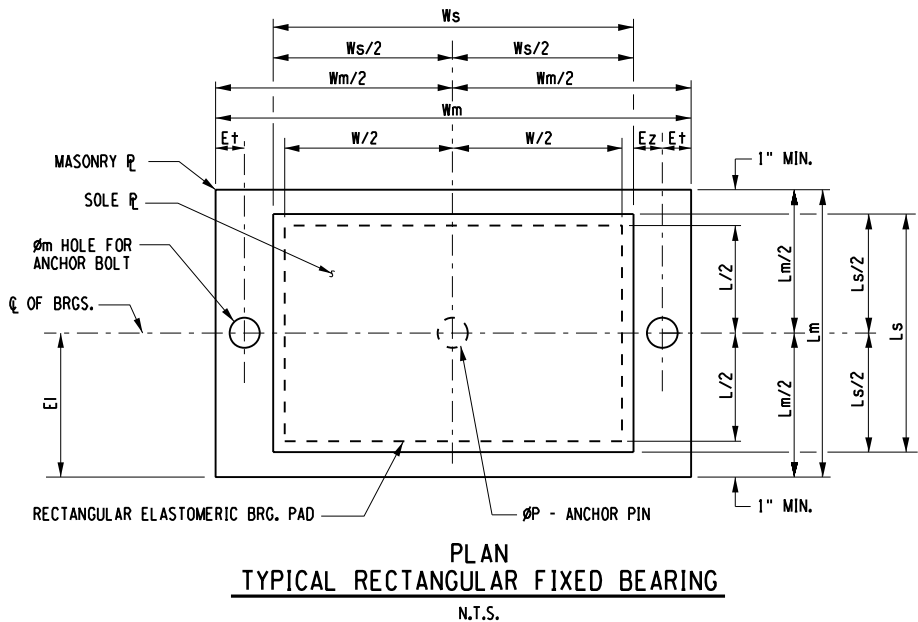
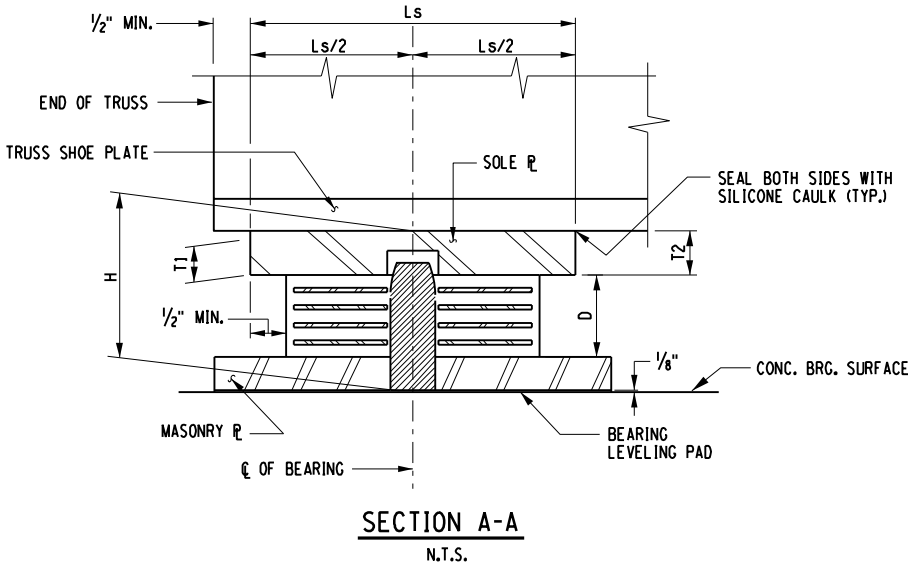
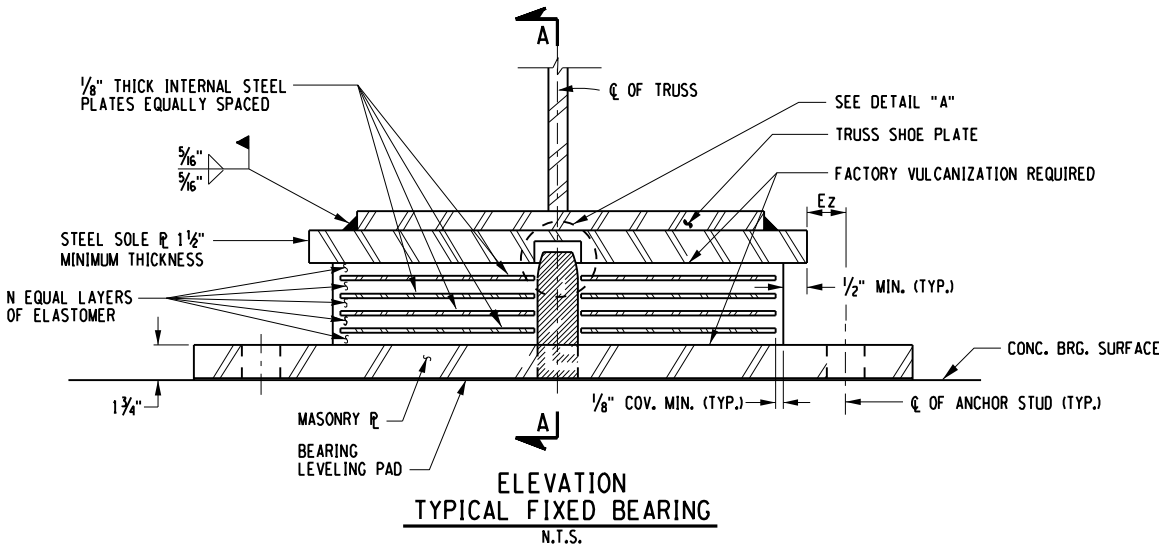
INSTALLATION ALIGNMENT:
THE MAXIMUM VARIATION FROM PERFECT ALIGNMENT UNDER FULL DEAD LOAD SHALL NOT EXCEED 3/16". THIS VARIATION SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CENTERLINE OF THE HIGHEST ELASTOMER SURFACE AND THE CENTERLINE OF THE LOWEST ELASTOMER SURFACE.

CONCRETE SURFACES UNDER THE BEARINGS SHALL CONFORM TO SUBSECTION 565.3.02 "CONCRETE BEARING SURFACE PREPARATION" OF THE NEW YORK STATE STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS.

THE BEARING PAD, ANCHOR STUDS, WASHER PLATES AND NUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.

IF THE ANCHOR STUDS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR NUT PLUS 1" SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF THE SOLE PLATE.

DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.



ANCHOR STUDS, WASHERS, WASHER PLATES, ANCHOR PLATES AND NUTS SHALL MEET THE REQUIREMENTS OF SUBSECTION 723-60. THEY SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF MATERIAL SUBSECTION 719-01, "GALVANIZED COATINGS AND REPAIR METHODS." THEIR COST (INCLUDING GALVANIZING) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.

XX

NO. DATE BY REVISION

Barton & Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL

BUTTERNUT COVE

STRUCTURE REPLACEMENT

ULSTER COUNTY

FIXED ELASTOMERIC BEARING DETAILS

SCALE: AS SHOWN

DATE ISSUED: 1/2018

DRAWING BN-12

FILE NAME = L:\MSTN Projects\0300\365\007 - Ashokan Rail Trail\MSTN Deconstruction Plans\Tree-Cov.dgn
DATE = 9/14/2017
TIME = 5:14:09 PM

cmh

L:\MicroStation\Bentley V8i\Workspace\Plot\SITE_NYSOOT_SIZE.B.TBL
L:\MicroStation\Workspace\Plot\NYSOOT_NYSOOT_LJ5000.B.04.08.plt

CHECKED BY

DRAFTED BY

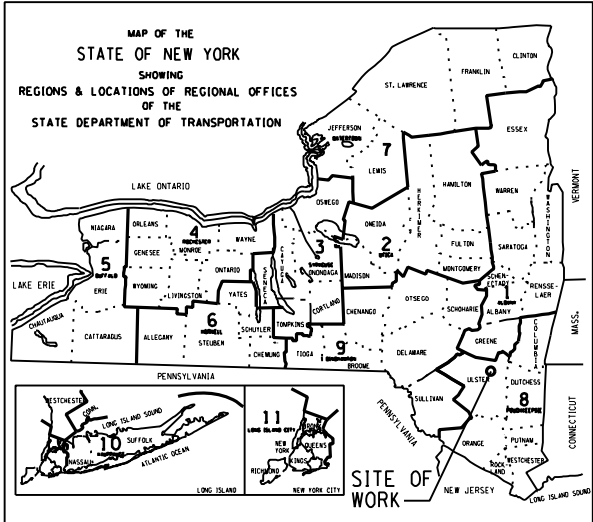
CHECKED BY

ESTIMATED BY

CHECKED BY

DESIGNED BY

IN CHARGE OF



ASHOKAN RAIL TRAIL ULSTER COUNTY

TREE REMOVAL CONTRACT DRAWINGS SEPTEMBER 15, 2017



**PROJECT
LOCATION**

PROJECT LOCATION

**Barton
& Loguidice, D.P.C.**

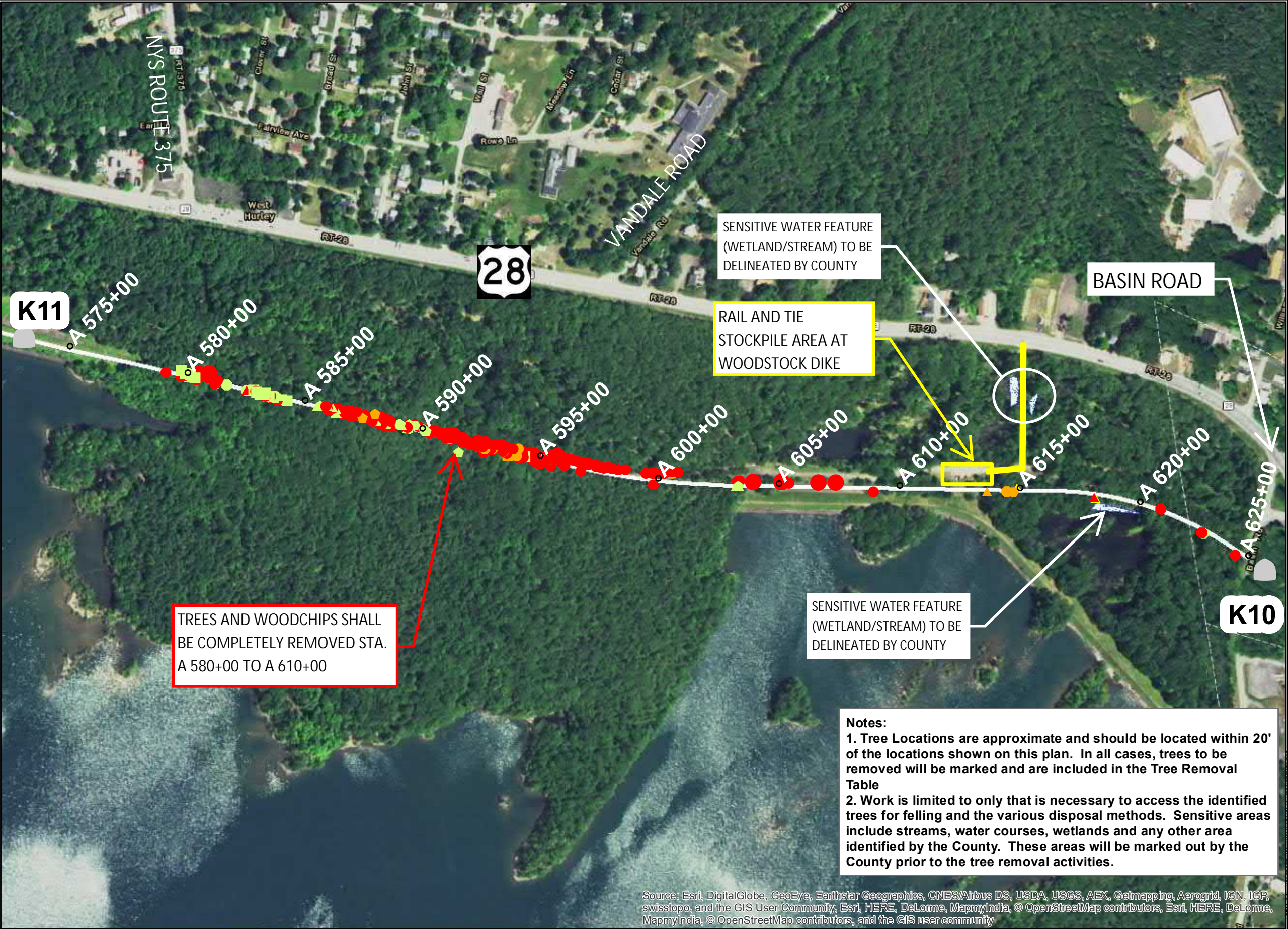
PREPARED AND RECOMMENDED BY

THOMAS C. BAIRD, P.E. DATE
NEW YORK STATE PROFESSIONAL ENGINEERS LICENSE NO. 074590



Legend

- Trees K10_K11
- Status, DBH_range, Species (Segment Quantity)
- alive, 4-14, Birch (20)
 - alive, 4-14, Maple (20)
 - alive, 4-14, Oak (2)
 - alive, 4-14, Other (3)
 - alive, 4-14, Pine (9)
 - dead standing, 15-24, Ash (11)
 - dead standing, 4-14, Ash (157)
 - dead standing, 4-14, Birch (1)
 - dead standing, 4-14, Other (3)
 - dead standing, 4-14, Pine (3)
 - down, 4-14, Ash (7)
 - down, 4-14, Birch (3)
 - down, 4-14, Maple (1)
 - down, 4-14, Oak (1)
 - down, 4-14, Other (3)
 - down, 4-14, Pine (1)
 - stressed, 4-14, Oak (1)
 - stressed, 4-14, Pine (2)
 - Milepost
 - Access and Staging
 - Streams
 - Wetlands



Notes:

1. Tree Locations are approximate and should be located within 20' of the locations shown on this plan. In all cases, trees to be removed will be marked and are included in the Tree Removal Table

2. Work is limited to only that is necessary to access the identified trees for felling and the various disposal methods. Sensitive areas include streams, water courses, wetlands and any other area identified by the County. These areas will be marked out by the County prior to the tree removal activities.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community; Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

Legend

Trees K11_K12

Status, DBH_range, Species (Segment Quantity)

- alive, 15-24, Other (1)
- alive, 4-14, Ash (1)
- ◆ alive, 4-14, Birch (15)
- alive, 4-14, Maple (11)
- ▲ alive, 4-14, Pine (5)
- dead standing, 15-24, Ash (1)
- dead standing, 4-14, Ash (105)
- ▲ dead standing, 4-14, Pine (5)
- ▲ down, 4-14, Pine (1)
- ▲ stressed, 15-24, Pine (1)
- ◆ stressed, 4-14, Birch (1)
- stressed, 4-14, Other (2)
- ▲ stressed, 4-14, Pine (9)
- Milepost
- Access and Staging
- Streams
- Wetlands



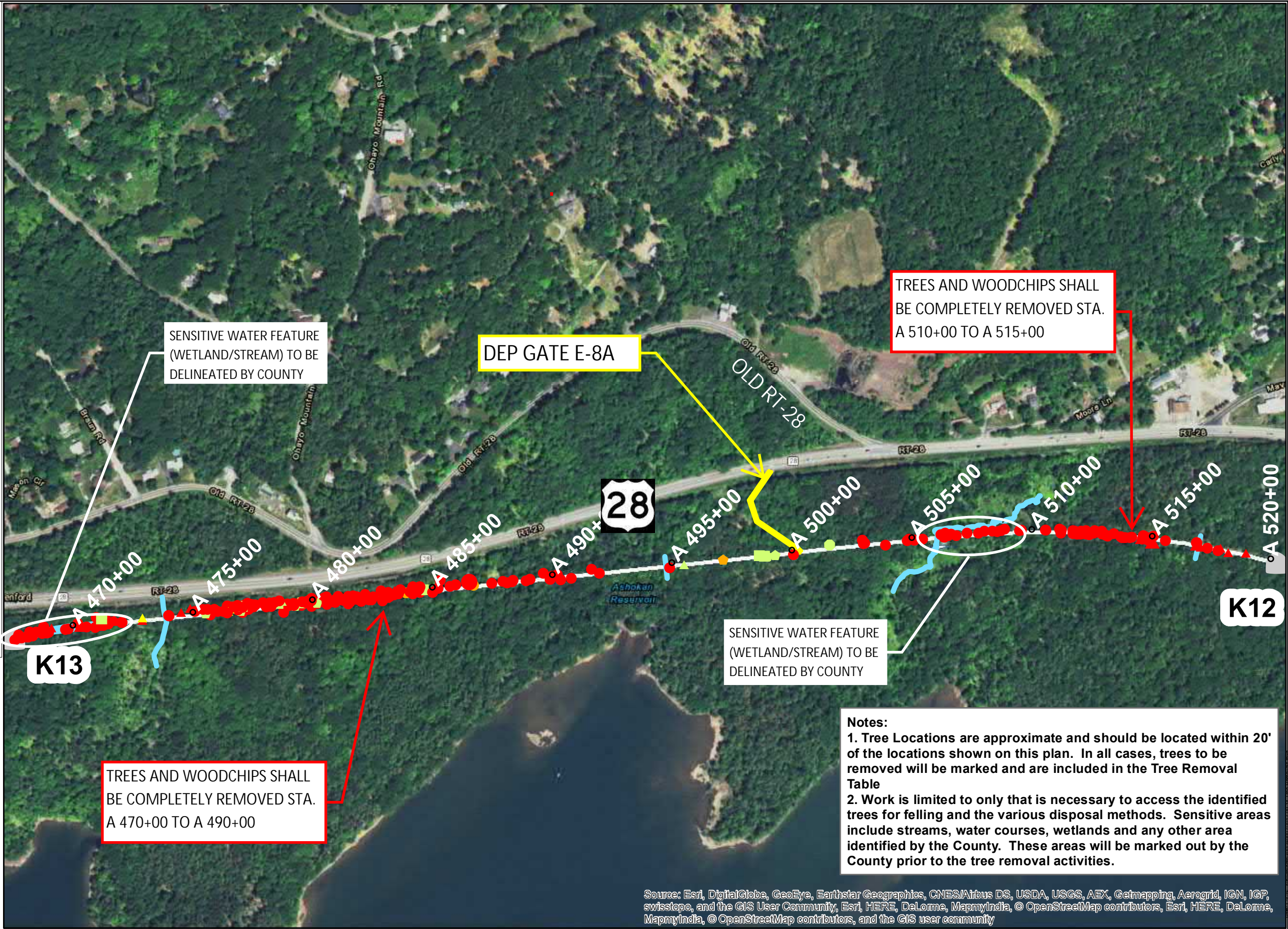
1 inch = 400 feet

Legend

Trees K12_K13

Status, DBH_range, Species (Segment Quantity)

- ◆ alive, 4-14, Birch (6)
- alive, 4-14, Maple (9)
- alive, 4-14, Other (1)
- ▲ alive, 4-14, Pine (2)
- dead standing, 15-24, Ash (1)
- ▲ dead standing, 15-24, Pine (1)
- dead standing, 4-14, Ash (275)
- ◆ dead standing, 4-14, Birch (1)
- ▲ dead standing, 4-14, Pine (25)
- down, 4-14, Ash (2)
- ◆ down, 4-14, Birch (1)
- stressed, 4-14, Ash (1)
- ▲ stressed, 4-14, Pine (3)
- Milepost
- Access and Staging
- Streams
- Wetlands



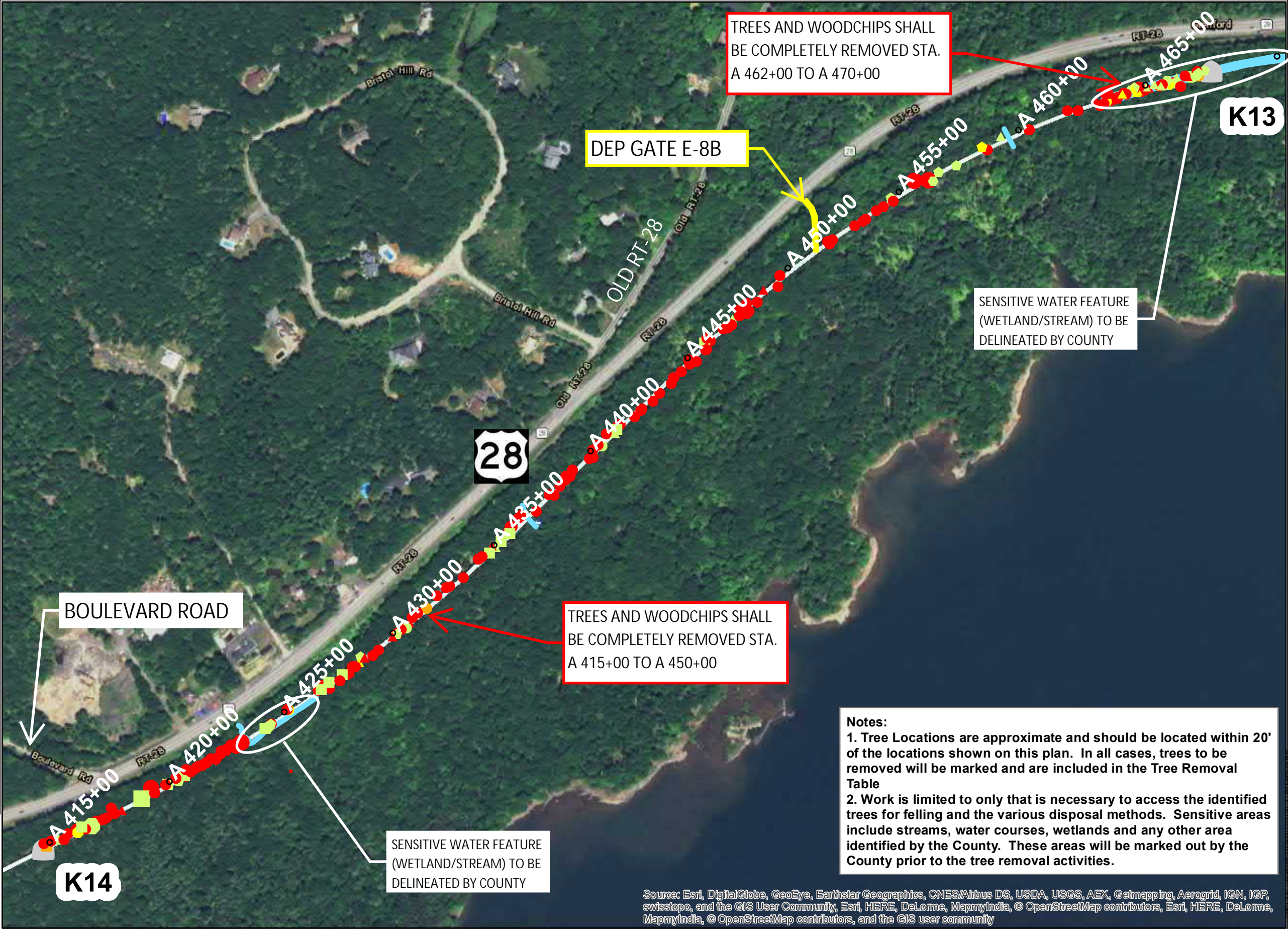
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

Legend

Trees K13_K14

Status, DBH_range, Species (Segment Quantity)

- alive, 15-24, Maple (1)
- alive, 15-24, Other (1)
- alive, 4-14, Ash (1)
- ◆ alive, 4-14, Birch (15)
- alive, 4-14, Maple (23)
- alive, 4-14, Oak (2)
- alive, 4-14, Other (3)
- ▲ alive, 4-14, Pine (12)
- dead standing, 15-24, Ash (4)
- dead standing, 4-14, Ash (207)
- ◆ dead standing, 4-14, Oak (1)
- ▲ dead standing, 4-14, Pine (17)
- down, 4-14, Ash (3)
- down, 4-14, Maple (1)
- stressed, 4-14, Ash (2)
- ◆ stressed, 4-14, Birch (2)
- stressed, 4-14, Other (4)
- ▲ stressed, 4-14, Pine (5)
- Milepost
- Access and Staging
- Streams
- Wetlands



Notes:

1. Tree Locations are approximate and should be located within 20' of the locations shown on this plan. In all cases, trees to be removed will be marked and are included in the Tree Removal Table

2. Work is limited to only that is necessary to access the identified trees for felling and the various disposal methods. Sensitive areas include streams, water courses, wetlands and any other area identified by the County. These areas will be marked out by the County prior to the tree removal activities.

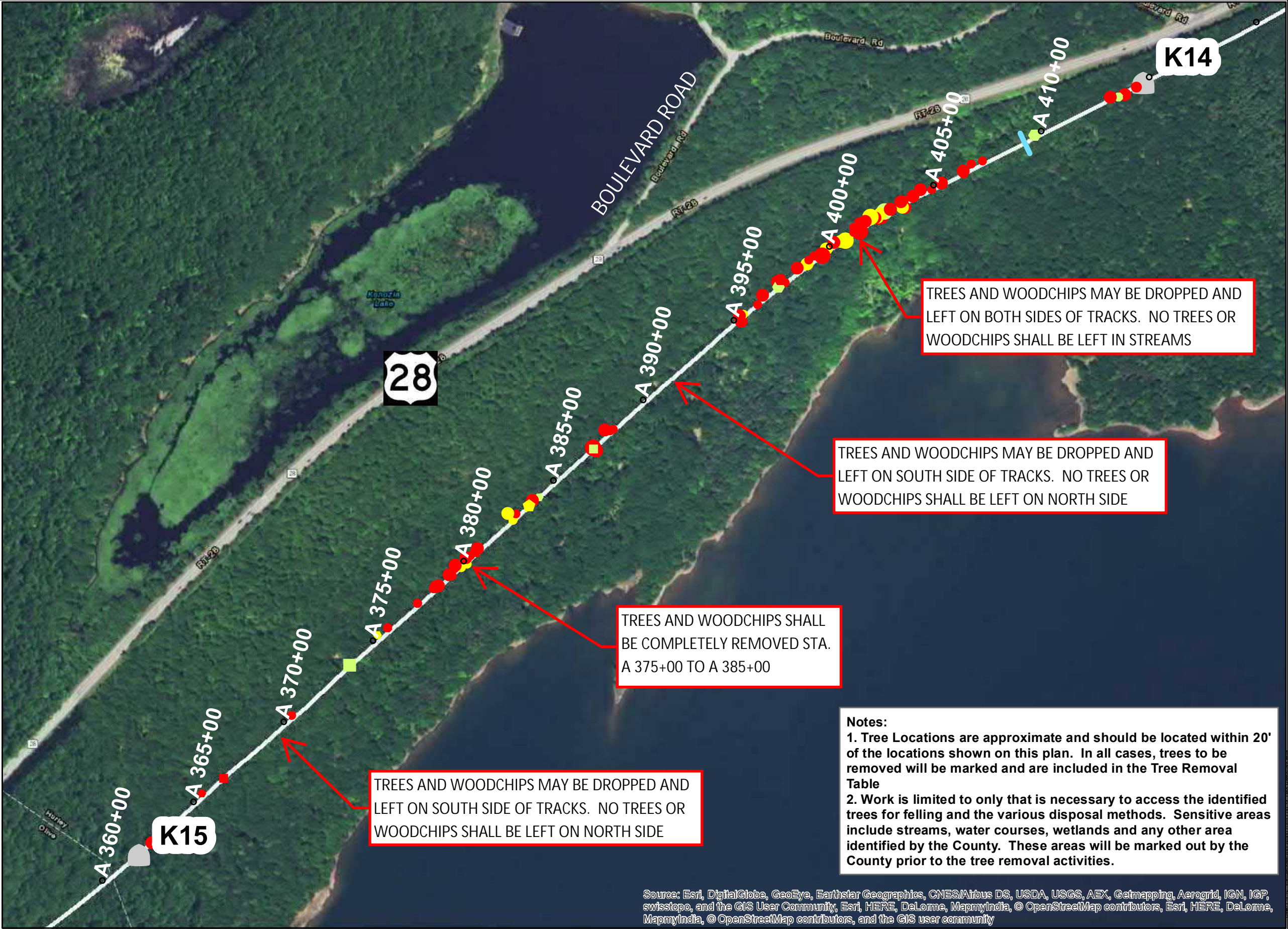
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

Legend

Trees K14_K15

Status, DBH_range, Species (Segment Quantity)

- alive, 15-24, Ash (1)
- alive, 4-8, Birch (1)
- alive, 4-8, Maple (1)
- alive, 4-8, Oak (1)
- alive, 4-8, Other (1)
- alive, 9-14, Maple (1)
- alive, 9-14, Oak (3)
- dead standing, 15-24, Ash (3)
- dead standing, 4-14, Ash (1)
- dead standing, 4-8, Ash (34)
- dead standing, 4-8, Maple (2)
- dead standing, 4-8, Oak (1)
- dead standing, 4-8, Other (1)
- dead standing, 9-14, Ash (32)
- dead standing, 9-14, Oak (2)
- dead standing, 9-14, Other (1)
- stressed, 15-24, Ash (2)
- stressed, 4-8, Ash (5)
- stressed, 4-8, Oak (1)
- stressed, 9-14, Ash (7)
- stressed, 9-14, Birch (1)
- Milepost
- Access and Staging
- Streams
- Wetlands

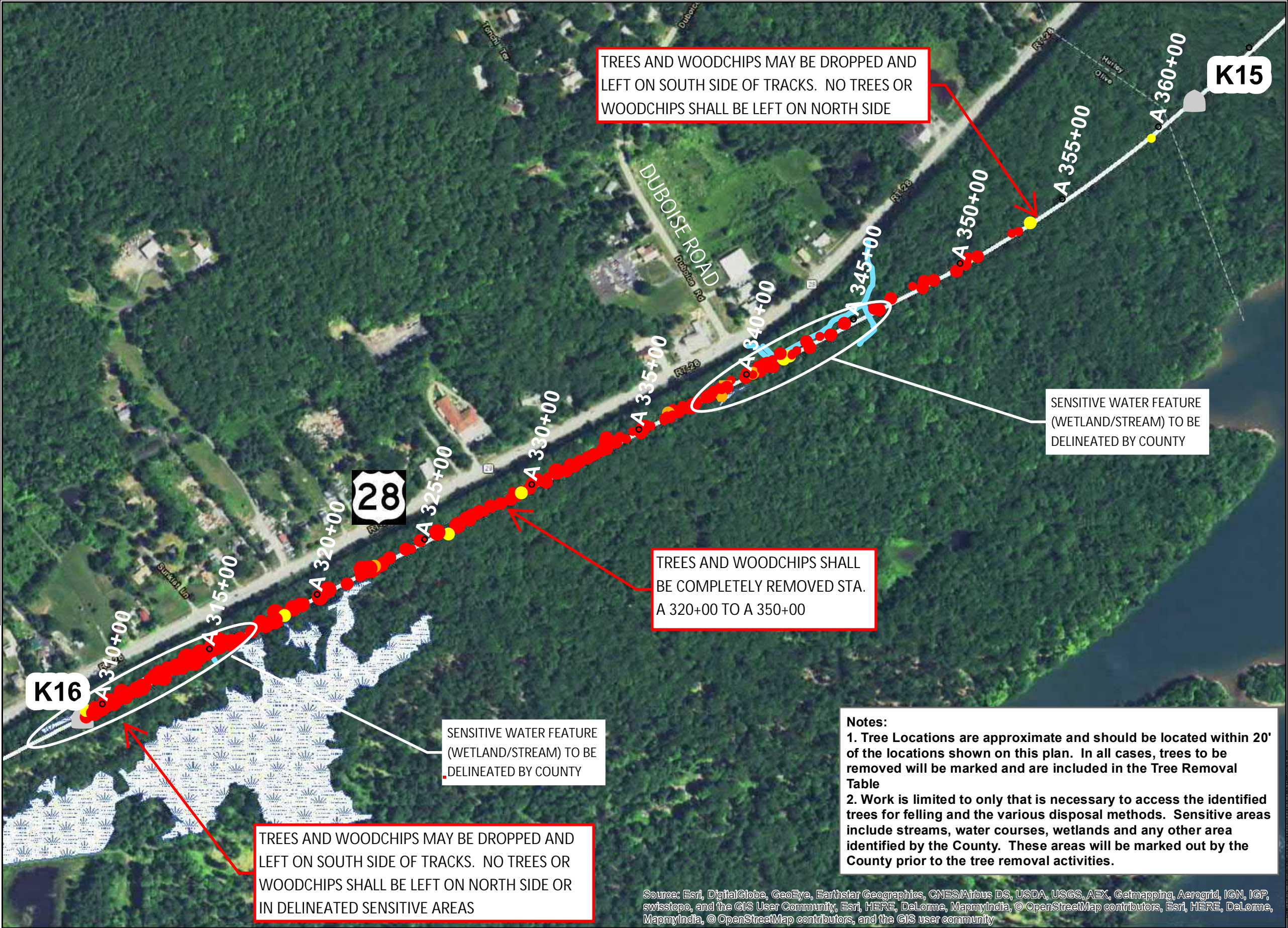


Legend

Trees K15_K16

Status, DBH_range, Species (Segment Quantity)

- dead standing, 15-24, Ash (36)
- dead standing, 25-34, Ash (3)
- dead standing, 4-8, Ash (163)
- dead standing, 4-8, Birch (1)
- dead standing, 4-8, Maple (1)
- dead standing, 4-8, Other (2)
- dead standing, 9-14, Ash (144)
- down, 9-14, Ash (3)
- down, 9-14, Maple (1)
- down, 9-14, Oak (1)
- stressed, 4-8, Ash (4)
- stressed, 9-14, Ash (9)
- Milepost
- Access and Staging
- Streams
- Wetlands

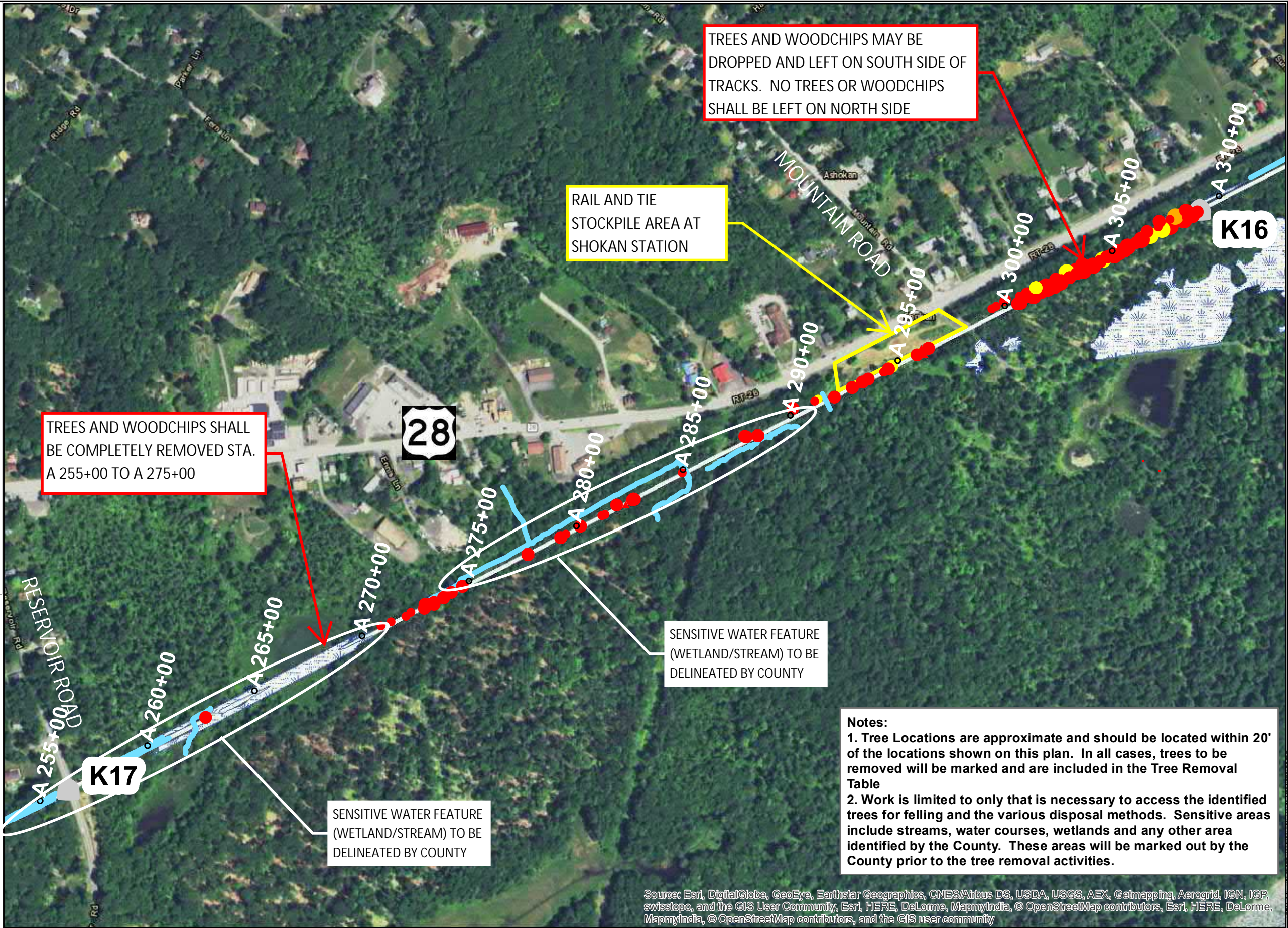


Legend

Trees K16_K17

Status, DBH_range, Species (Segment Quantity)

- dead standing, 15-24, Ash (14)
- ▲ dead standing, 15-24, Pine (1)
- dead standing, 4-8, Ash (40)
- dead standing, 4-8, Other (1)
- ▲ dead standing, 4-8, Pine (1)
- dead standing, 9-14, Ash (101)
- dead standing, 9-14, Other (2)
- down, 15-24, Ash (1)
- stressed, 15-24, Ash (5)
- stressed, 4-8, Ash (1)
- stressed, 9-14, Ash (7)
- Milepost
- Access and Staging
- Streams
- Wetlands



Notes:

1. Tree Locations are approximate and should be located within 20' of the locations shown on this plan. In all cases, trees to be removed will be marked and are included in the Tree Removal Table

2. Work is limited to only that is necessary to access the identified trees for felling and the various disposal methods. Sensitive areas include streams, water courses, wetlands and any other area identified by the County. These areas will be marked out by the County prior to the tree removal activities.

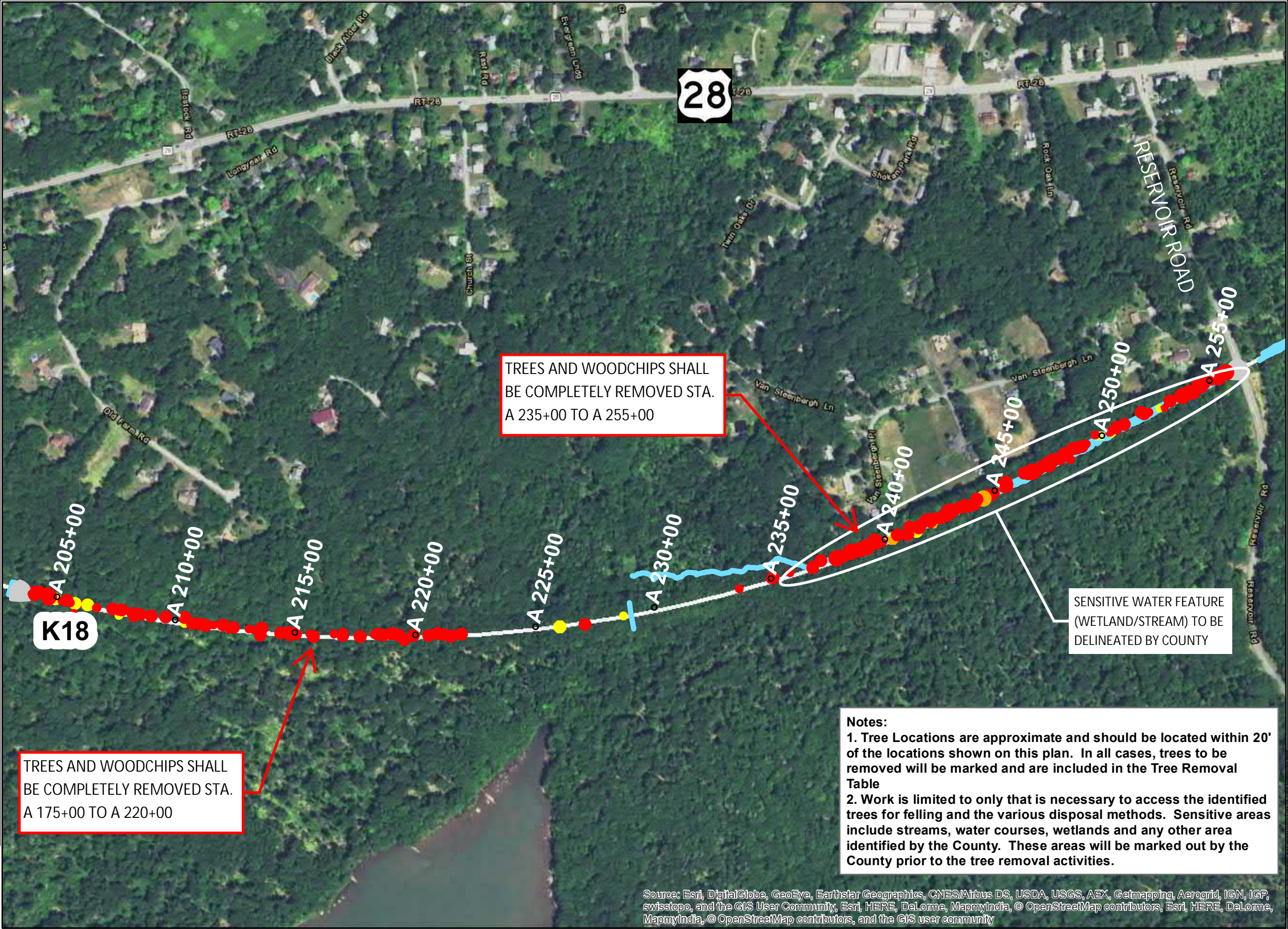
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

Legend

Trees K17_K18

Status, DBH_range, Species (Segment Quantity)

- alive, 4-8, Maple (1)
- dead standing, 15-24, Ash (12)
- dead standing, 4-8, Ash (90)
- ◆ dead standing, 4-8, Birch (2)
- dead standing, 4-8, Maple (1)
- dead standing, 4-8, Other (2)
- ▲ dead standing, 4-8, Pine (1)
- dead standing, 9-14, Ash (118)
- ◆ dead standing, 9-14, Birch (2)
- dead standing, 9-14, Maple (1)
- ◆ dead standing, 9-14, Oak (1)
- dead standing, 9-14, Other (5)
- down, 15-24, Ash (1)
- ◆ down, 9-14, Birch (1)
- down, 9-14, Other (1)
- stressed, 4-8, Ash (4)
- ◆ stressed, 4-8, Birch (2)
- stressed, 9-14, Ash (4)
- stressed, 9-14, Other (1)
- Milepost
- Access and Staging
- Streams
- Wetlands



Notes:

1. Tree Locations are approximate and should be located within 20' of the locations shown on this plan. In all cases, trees to be removed will be marked and are included in the Tree Removal Table

2. Work is limited to only that is necessary to access the identified trees for felling and the various disposal methods. Sensitive areas include streams, water courses, wetlands and any other area identified by the County. These areas will be marked out by the County prior to the tree removal activities.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community



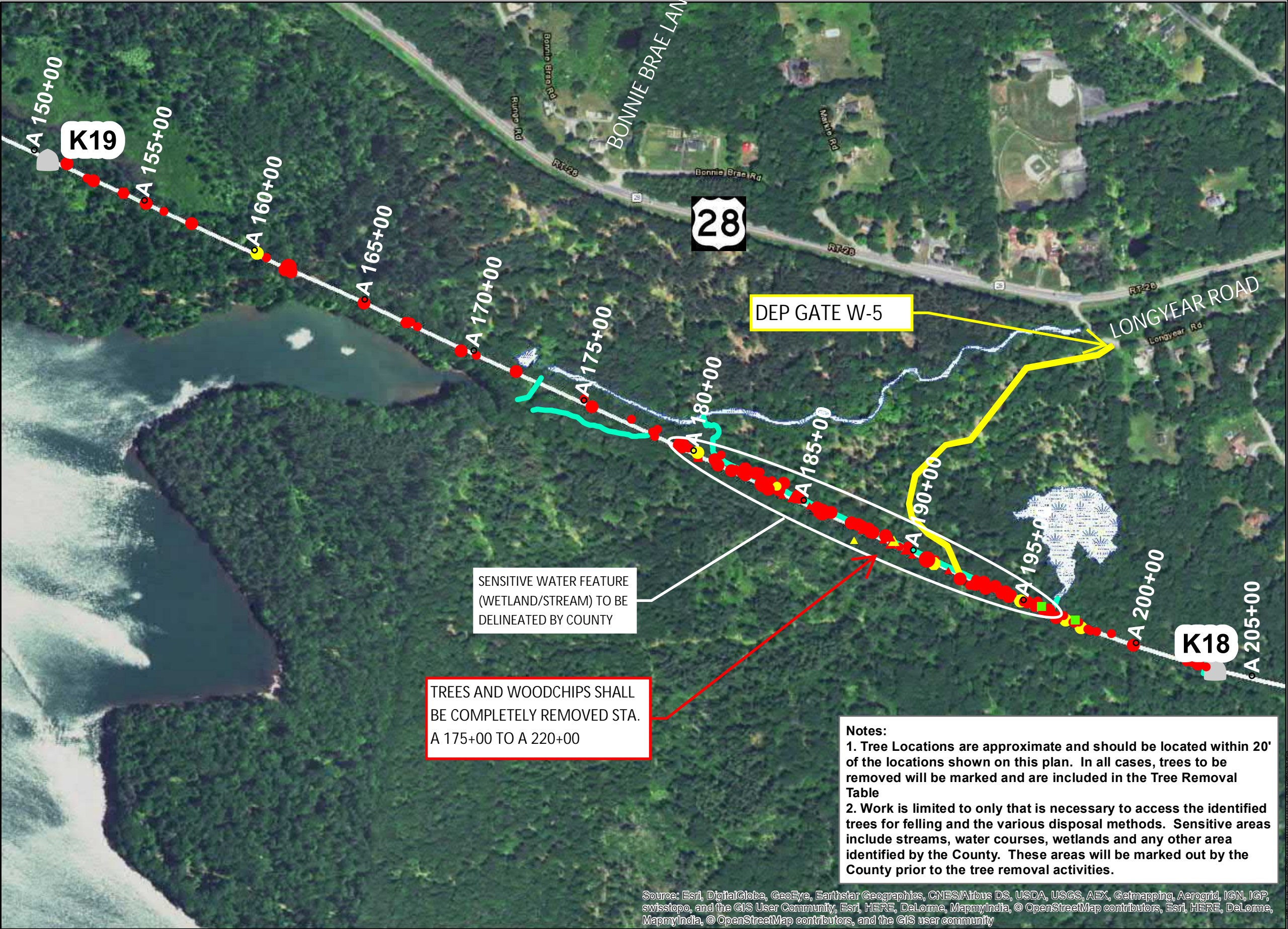
1 inch = 400 feet

Legend

Trees K18_K19

Status, DBH_range, Species (Segment Quantity)

- alive, 4-8, Maple (4)
- dead standing, 15-24, Ash (5)
- dead standing, 4-8, Ash (78)
- ◆ dead standing, 4-8, Birch (2)
- dead standing, 4-8, Maple (1)
- dead standing, 4-8, Other (2)
- ▲ dead standing, 4-8, Pine (23)
- dead standing, 9-14, Ash (61)
- ◆ dead standing, 9-14, Oak (2)
- dead standing, 9-14, Other (2)
- ▲ dead standing, 9-14, Pine (5)
- stressed, 4-8, Ash (2)
- ▲ stressed, 4-8, Pine (2)
- stressed, 9-14, Ash (10)
- stressed, 9-14, Other (1)
- ▲ stressed, 9-14, Pine (1)
- Milepost
- Access and Staging
- Streams
- Wetlands



Legend

Trees K19_K20

Status, DBH_range, Species (Segment Quantity)

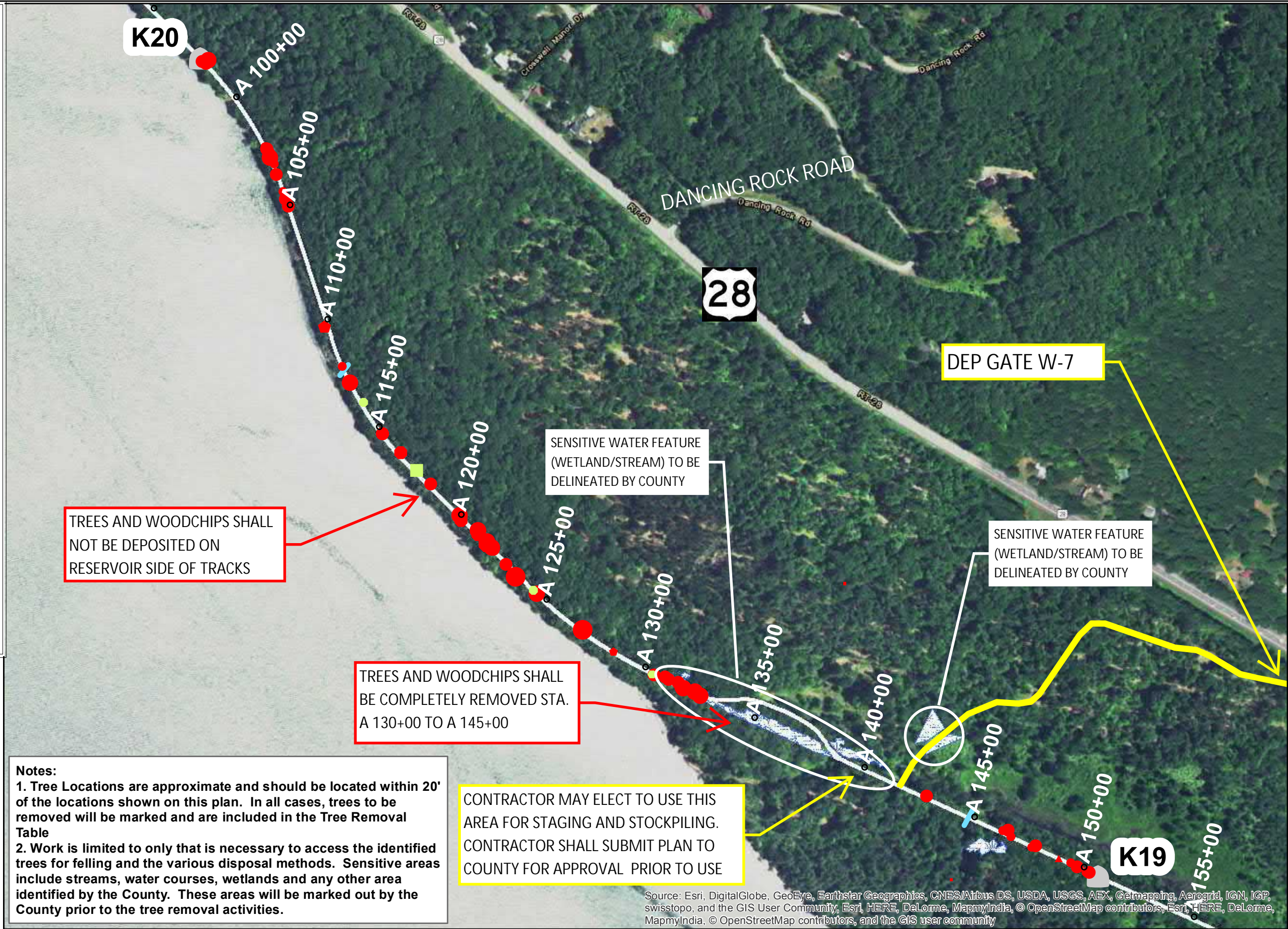
- alive, 4-8, Birch (2)
- alive, 4-8, Maple (1)
- alive, 4-8, Other (2)
- alive, 9-14, Maple (1)
- dead standing, 15-24, Ash (13)
- dead standing, 15-24, Other (2)
- dead standing, 25-34, Ash (2)
- dead standing, 4-8, Ash (17)
- ◆ dead standing, 4-8, Birch (1)
- ▲ dead standing, 4-8, Pine (1)
- dead standing, 9-14, Ash (32)
- ◆ dead standing, 9-14, Birch (3)
- dead standing, 9-14, Other (3)

● Milepost

— Access and Staging

— Streams

Wetlands



Notes:
1. Tree Locations are approximate and should be located within 20' of the locations shown on this plan. In all cases, trees to be removed will be marked and are included in the Tree Removal Table
2. Work is limited to only that is necessary to access the identified trees for felling and the various disposal methods. Sensitive areas include streams, water courses, wetlands and any other area identified by the County. These areas will be marked out by the County prior to the tree removal activities.

CONTRACTOR MAY ELECT TO USE THIS AREA FOR STAGING AND STOCKPILING. CONTRACTOR SHALL SUBMIT PLAN TO COUNTY FOR APPROVAL PRIOR TO USE

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community



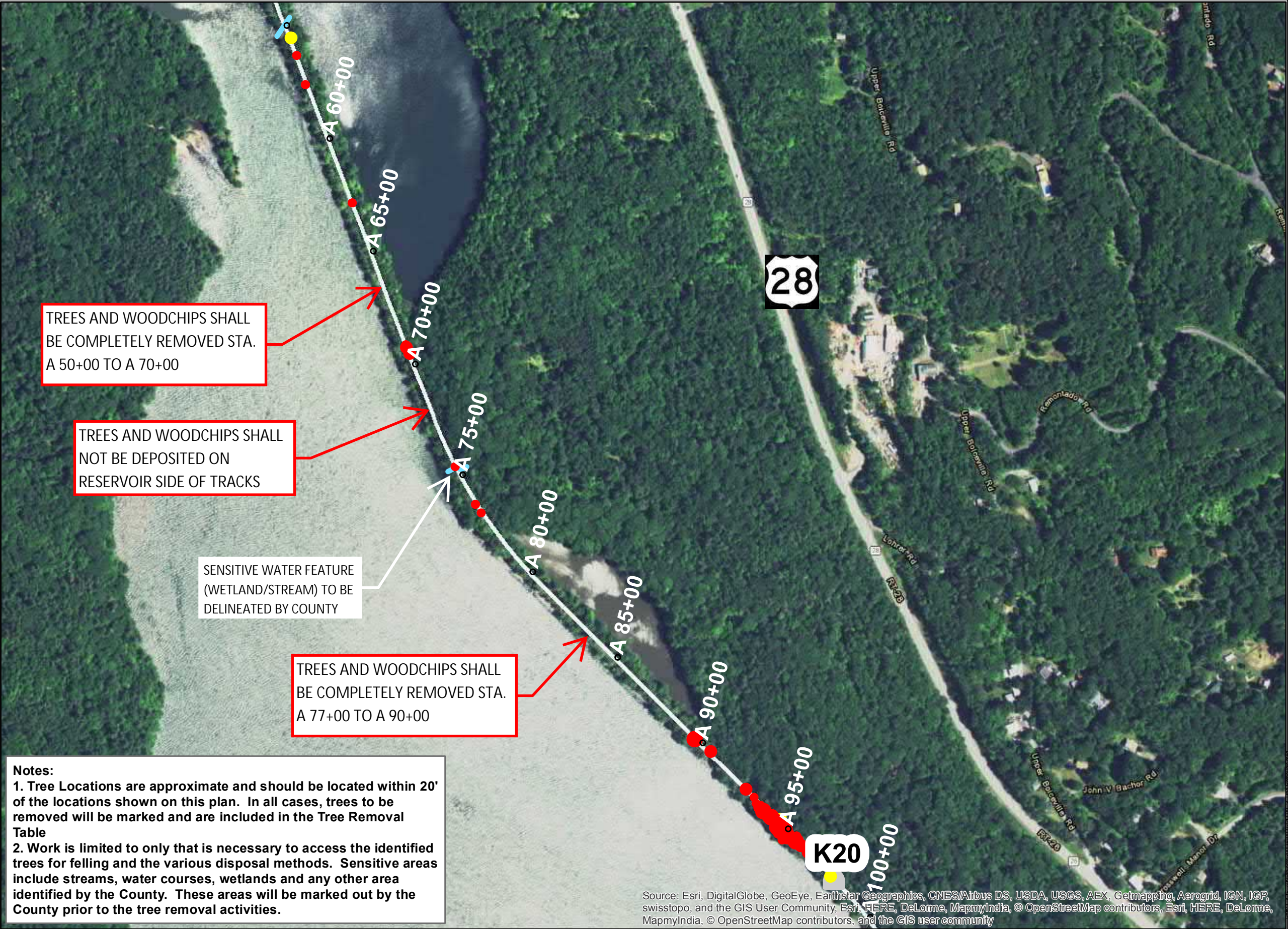
1 inch = 400 feet

Legend

Trees K20_K21

Status, DBH_range, Species (Segment Quantity)

- dead standing, 15-24, Ash (11)
- dead standing, 4-8, Ash (24)
- dead standing, 9-14, Ash (25)
- dead standing, 9-14, Other (1)
- stressed, 9-14, Ash (2)
- stressed, 9-14, Other (1)
- Milepost
- Access and Staging
- Streams
- Wetlands



Legend

Trees K20_K21

Status, DBH_range, Species (Segment Quantity)

- alive, 9-14, Ash (2)

Trees K21_K21.5

Status, DBH_range, Species (Segment Quantity)

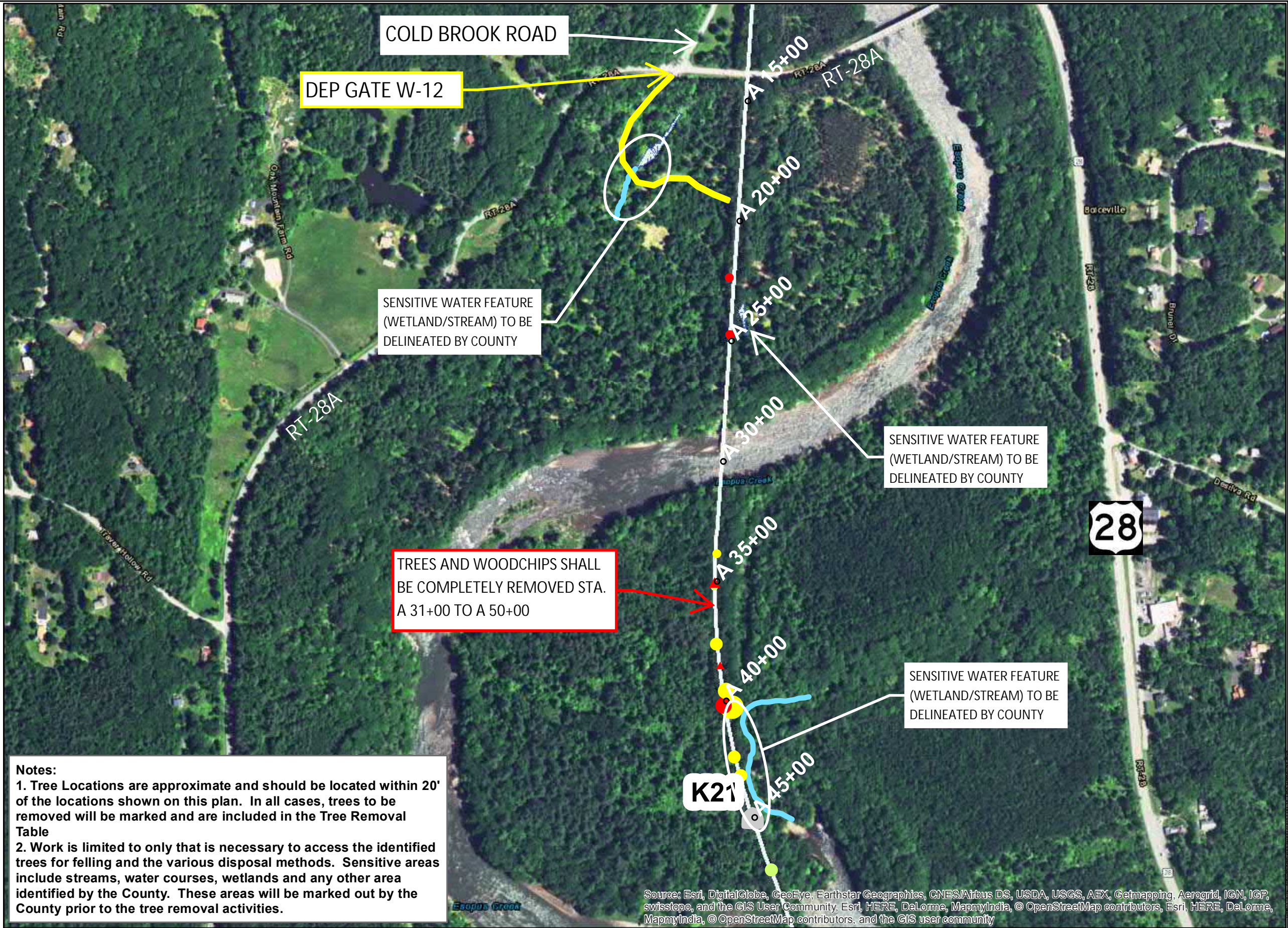
- alive, 4-8, Birch (1)
- dead standing, 15-24, Ash (1)
- dead standing, 4-8, Ash (1)
- dead standing, 4-8, Other (1)
- ▲ dead standing, 4-8, Pine (2)
- ▲ dead standing, 9-14, Pine (1)
- stressed, 15-24, Ash (1)
- stressed, 35-44, Ash (1)
- stressed, 4-8, Ash (1)
- stressed, 9-14, Ash (4)

● Milepost

— Access and Staging

— Streams

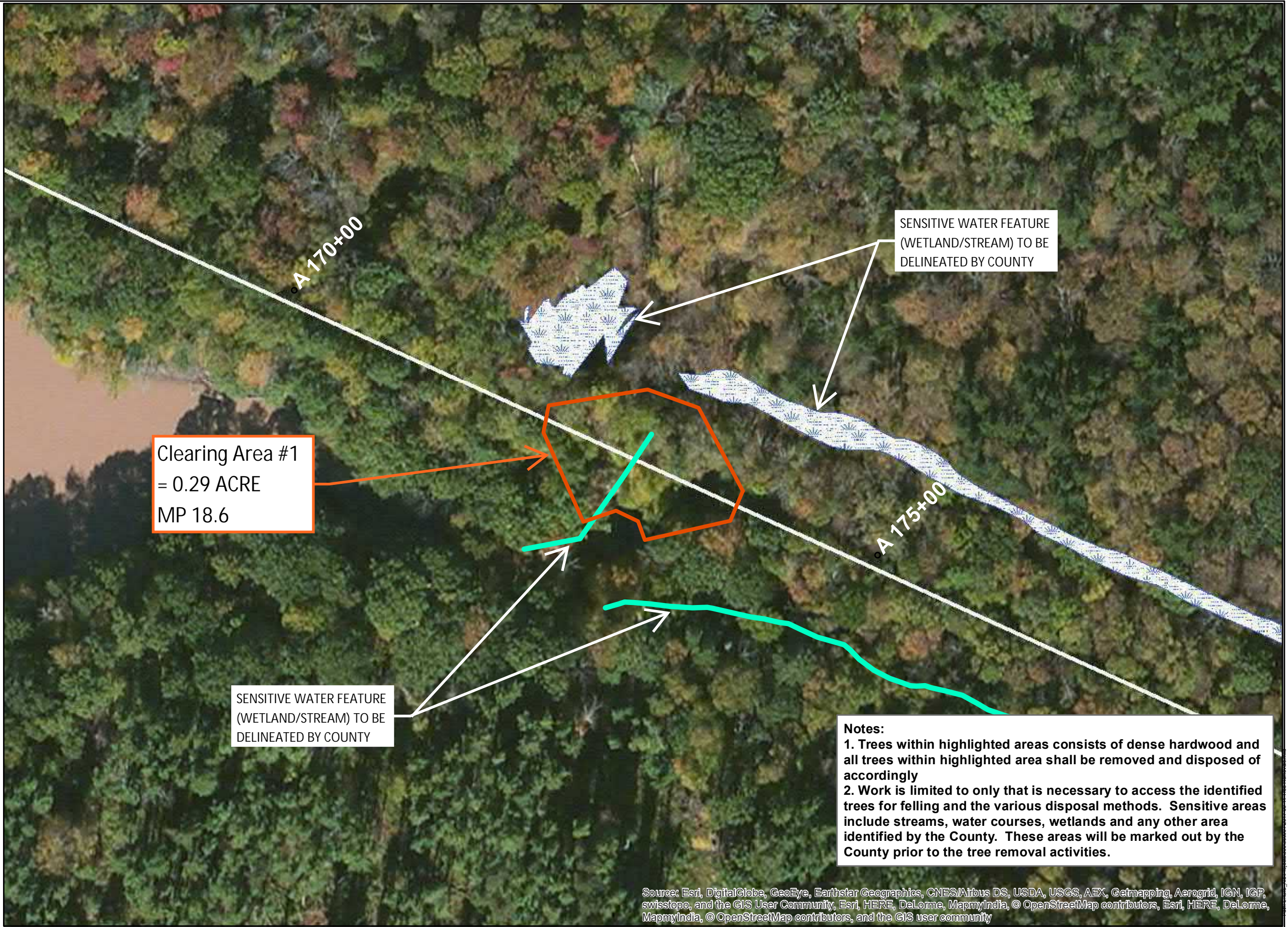
— Wetlands



Notes:
1. Tree Locations are approximate and should be located within 20' of the locations shown on this plan. In all cases, trees to be removed will be marked and are included in the Tree Removal Table
2. Work is limited to only that is necessary to access the identified trees for felling and the various disposal methods. Sensitive areas include streams, water courses, wetlands and any other area identified by the County. These areas will be marked out by the County prior to the tree removal activities.

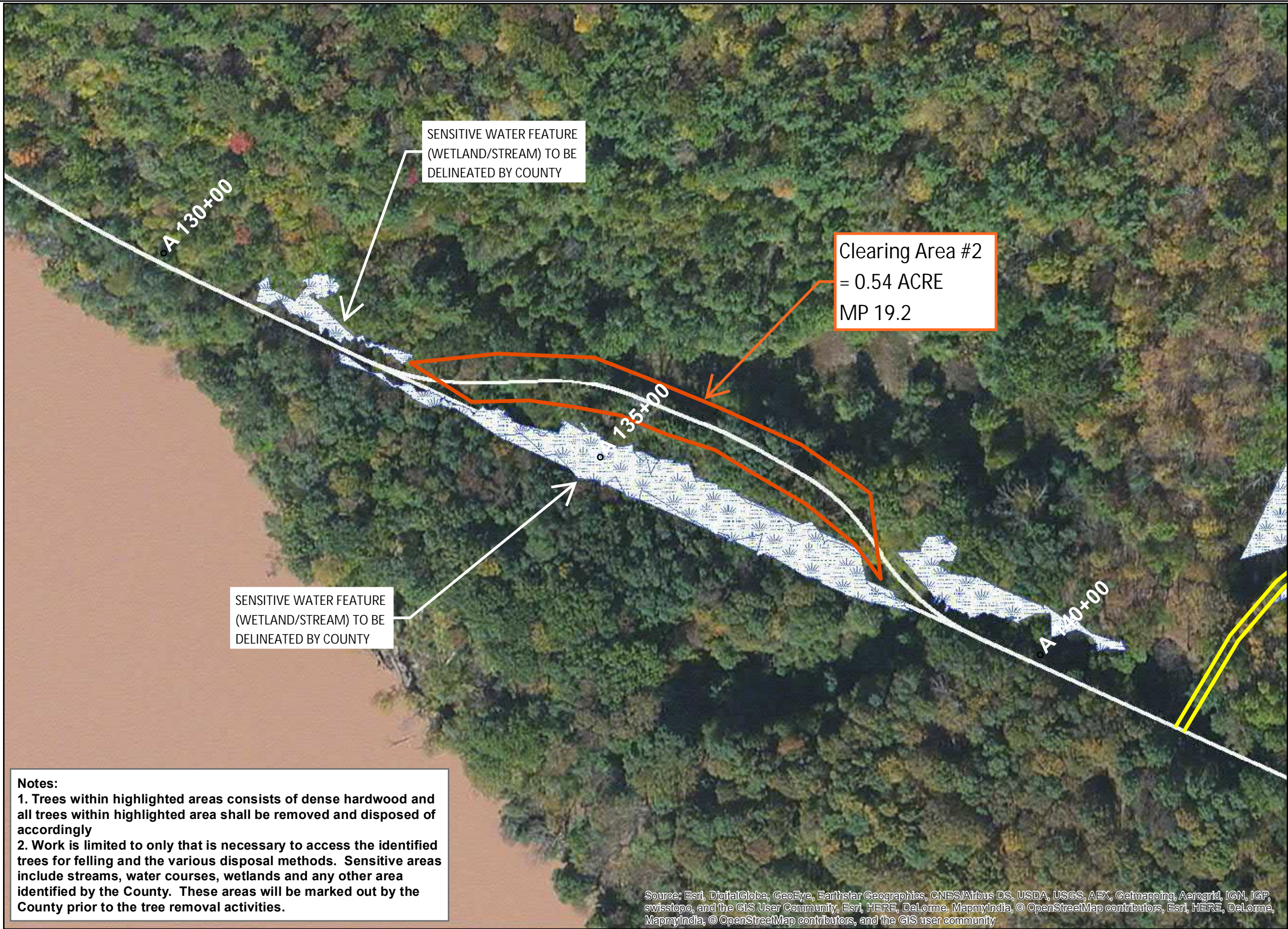
Legend

-  Clearing Areas (1)
-  Milepost
-  Access and Staging
-  Streams
-  Wetlands



Legend

-  Clearing Areas (1)
-  Milepost
-  Access and Staging
-  Streams
-  Wetlands



Notes:
1. Trees within highlighted areas consists of dense hardwood and all trees within highlighted area shall be removed and disposed of accordingly
2. Work is limited to only that is necessary to access the identified trees for felling and the various disposal methods. Sensitive areas include streams, water courses, wetlands and any other area identified by the County. These areas will be marked out by the County prior to the tree removal activities.

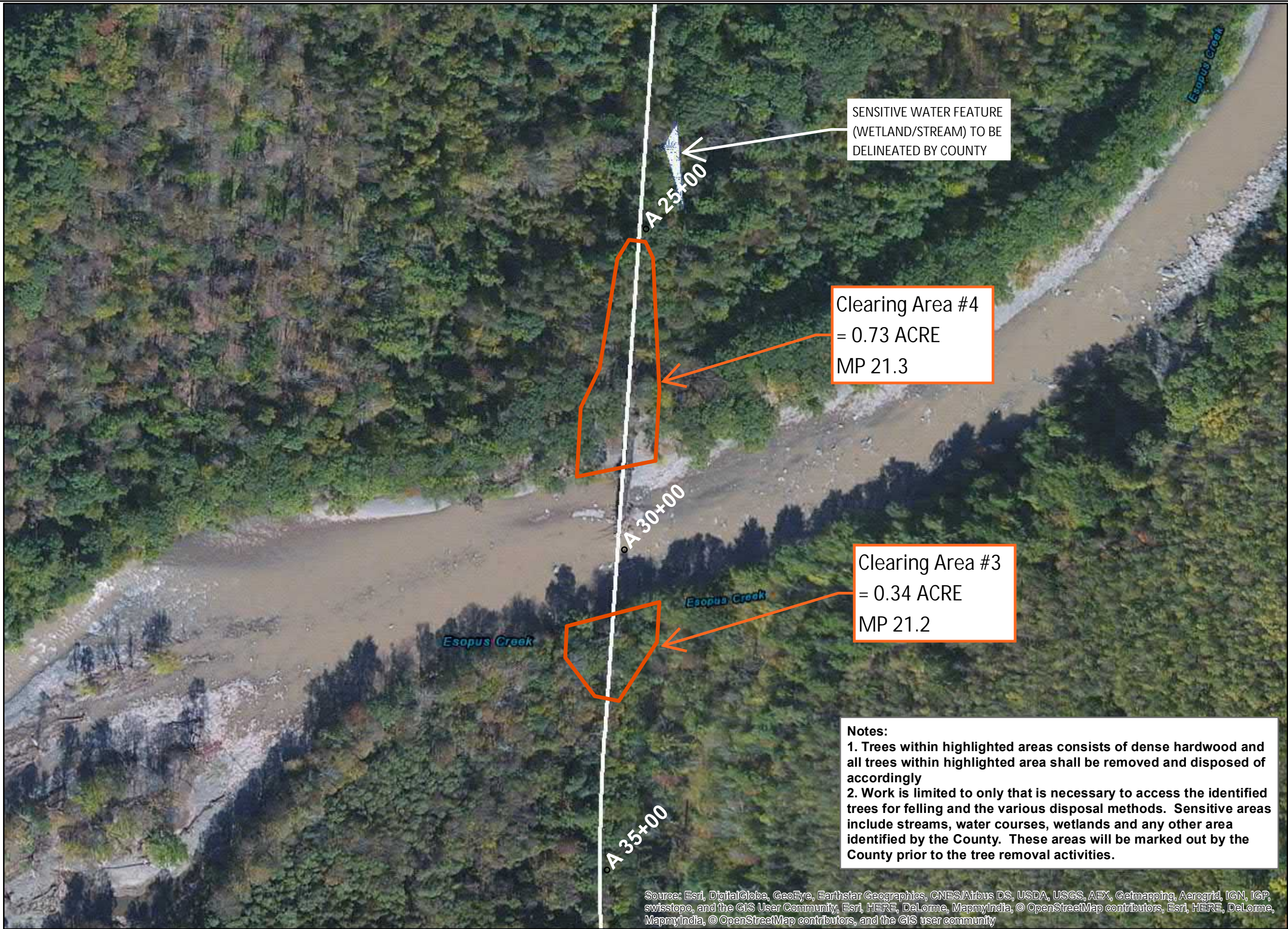
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community



1 inch = 100 feet

Legend

-  Clearing Areas (2)
-  Milepost
-  Access and Staging
-  Streams
-  Wetlands



SENSITIVE WATER FEATURE
(WETLAND/STREAM) TO BE
DELINEATED BY COUNTY

Clearing Area #4
= 0.73 ACRE
MP 21.3

Clearing Area #3
= 0.34 ACRE
MP 21.2

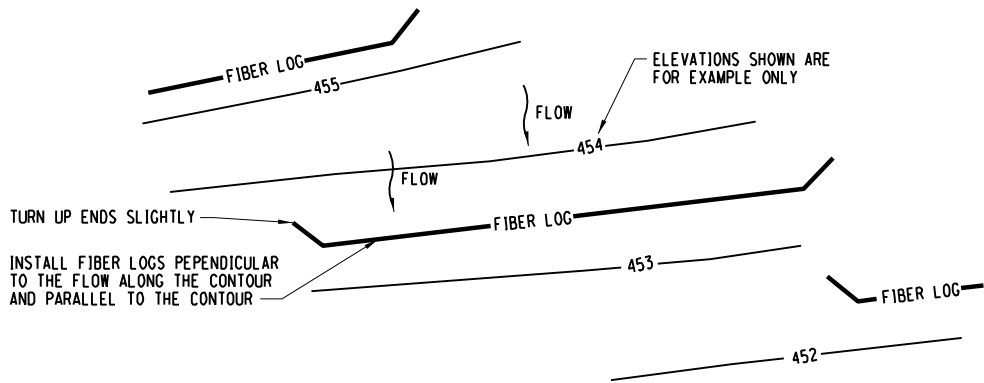
Notes:
1. Trees within highlighted areas consists of dense hardwood and all trees within highlighted area shall be removed and disposed of accordingly
2. Work is limited to only that is necessary to access the identified trees for felling and the various disposal methods. Sensitive areas include streams, water courses, wetlands and any other area identified by the County. These areas will be marked out by the County prior to the tree removal activities.

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

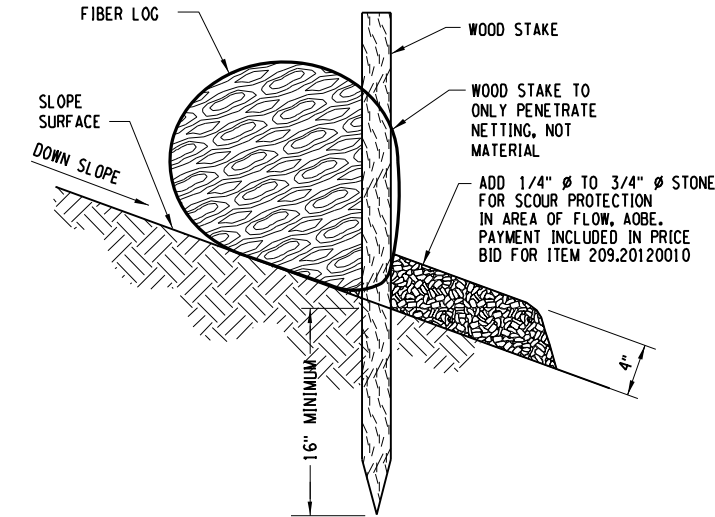


DRAFT
NOT FOR CONSTRUCTION

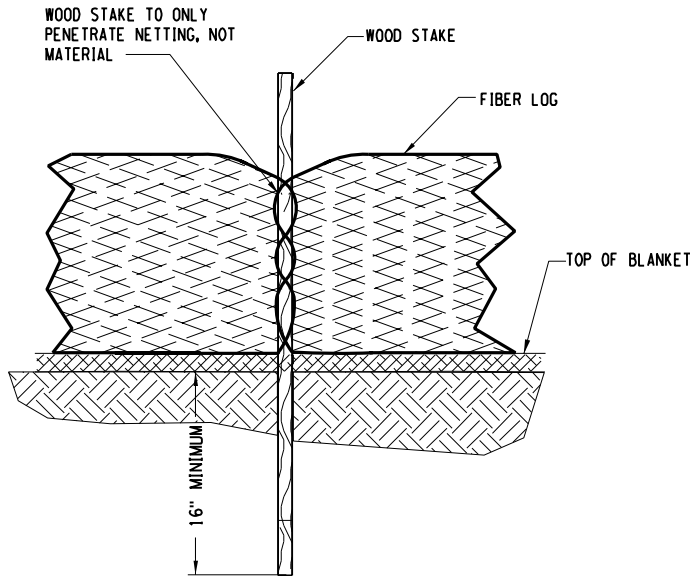
PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :



FIBER LOG PLAN EXAMPLE
N.T.S.



FIBER LOG STAKE DETAIL (ON BARE SOIL)
N.T.S.



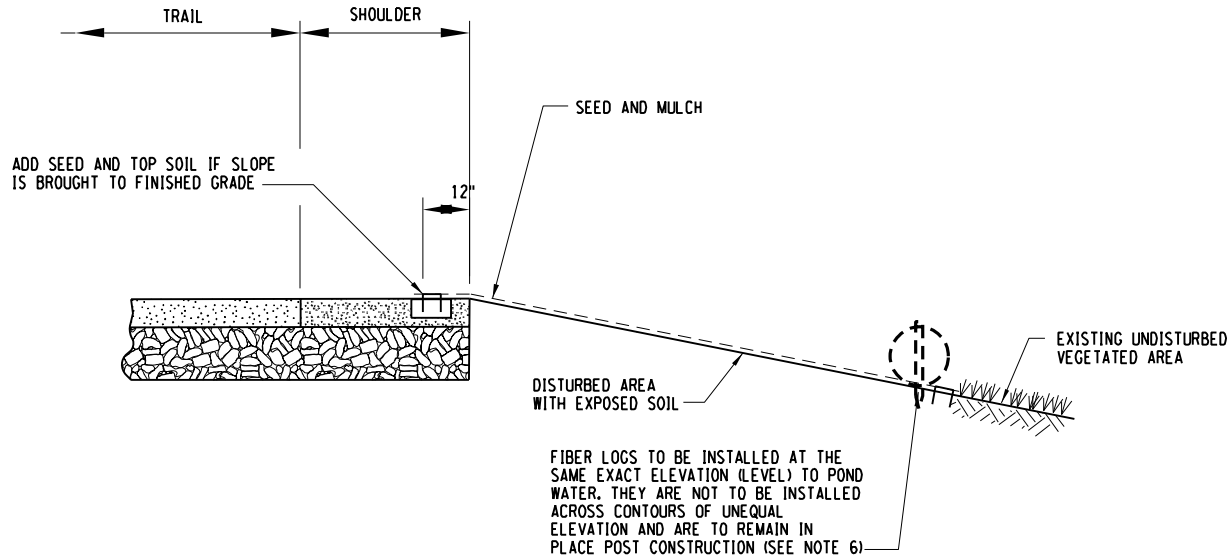
FIBER LOG STAKE DETAIL (FRONT VIEW)
N.T.S.

FIBER LOG CHECK DAM APPLICATION NOTES:

- THE PRIMARY PURPOSE OF A CHECK DAM IS TO REDUCE EROSION IN A CHANNEL BY REDUCING FLOW VELOCITY IN THE CHANNEL.
- CHECK DAMS WILL CAPTURE SEDIMENT THAT FALLS OUT OF SUSPENSION BEHIND THE CHECK DAM DUE TO DECREASED VELOCITY.
- CHECK DAMS ARE NOT INTENDED TO, AND WILL NOT FILTER SEDIMENT FROM TURBID WATER.

NOTES:

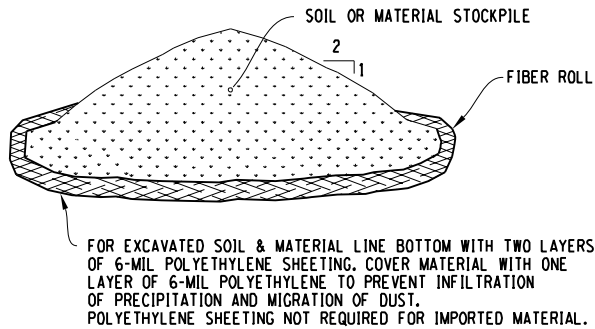
- DRAINAGE AREAS: MAXIMUM DRAINAGE AREA TRIBUTARY TO FIBER LOG CHECK DAM SHALL BE 1 ACRE. MAXIMUM DRAINAGE AREA TRIBUTARY TO PREFABRICATED CHECK DAM SHALL BE 1/2 ACRE.
- POSTS MAY BE 1/4" x 1/4" (MIN.) HARDWOOD, 1/2" x 3/2" (MIN.) SOFTWOOD. ADDITIONAL POSTS ARE REQUIRED AT THE OUTER EDGES OF DITCH WIDTH.
- THE FIBER LOG SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSTREAM SIDE OF THE FABRIC AS SHOWN.
- SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT OF THE FIBER LOG. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.



EROSION AND SEDIMENT CONTROL FOR ALL DISTURBED AREAS
TEMPORARY OR PERMANENT
N.T.S.

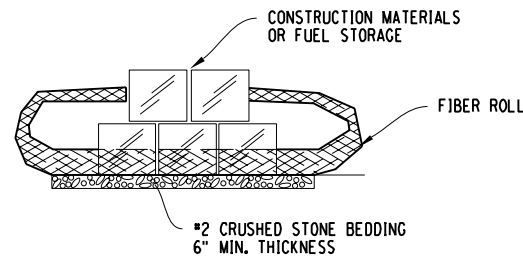
NOTES:

- ITEMS IN THIS DETAIL MAY APPEAR EXAGGERATED TO SHOW DETAIL.
- IF SLOPE IS BROUGHT TO FINISHED GRADE, PERMANENT TOP SOIL AND SEEDING SHALL BE INSTALLED PRIOR TO INSTALLING ITEM 209.2103 - SOIL STABILIZERS, CLASS IV TYPE C. IF SLOPES ARE NOT BROUGHT TO FINISH GRADE THEY ARE TO BE TREATED WITH ITEM 209.1003 - TEMPORARY SEED AND MULCH.
- AS PART OF FINAL STABILIZATION, WOODEN STAKES TO BE REMOVED AND FIBER LOG MULCH NETTING CUT OPEN ALONG ENTIRE LENGTH.
- USE STRAW MULCH FOR EROSION PREVENTION



EXCAVATED AND IMPORTED
SOIL AND MATERIAL STOCKPILE
N.T.S.

- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE. THE AREA SHALL NOT BE WITHIN THE DRIPLINE OR CANOPY OF EXISTING TREES. THE LOCATION SHALL BE AS NOTED ON THE DRAWINGS. DREDGED OR EXCAVATED MATERIALS SHALL BE PLACED UPON SILT FENCE FABRIC.
- MAXIMUM SLOPE OF STOCKPILE SHALL BE 2(H) TO 1(V).
- FIBER LOGS SHALL BE PLACED FIVE (5)-FEET DOWNSLOPE OF EACH PILE. UPON COMPLETION OF SOIL STOCKPILING, TOPSOIL SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH IF NOT TO BE DISTURBED/UTILIZED WITHIN FOURTEEN (14) DAYS.



FUEL, EQUIPMENT, OR
MATERIAL STORAGE AREA
N.T.S.

- AREA CHOSEN FOR STORAGE OPERATIONS SHALL BE DRY AND STABLE. THE AREA SHALL NOT BE WITHIN THE DRIPLINE OR CANOPY OF TREES. THE LOCATION SHALL BE AS NOTED ON THE DRAWINGS.
- NO STOCKPILE AREA SHALL BE LOCATED WITHIN FIFTY (50) FEET OF SURFACE WATER, FLOODPLAIN, SLOPE, DRAINAGE FACILITY OR ROADWAY.
- IF STABLE SURFACE NOT AVAILABLE, THE TOP SIX (6) INCHES OF NATIVE MATERIAL SHALL BE EXCAVATED FROM THE MATERIAL/FUEL STORAGE AREA AND STOCKPILED TO REUSE FOR RESTORATION OF THIS AREA. IN THE AREA EXCAVATED, PLACE SEPARATION FABRIC AND SIX (6) INCHES OF *2 CRUSHED STONE BEDDING, SEE SPECIFICATIONS. IF APPROVED BY THE ENGINEER, USE OF EXISTING GRAVEL AREAS MAY BE USED IN LIEU OF EXCAVATION, STONE, AND FABRIC.
- FIBER LOGS SHALL BE PLACED FIVE (5) FEET DOWNSLOPE OF STORAGE AREA.
- REMOVE ALL MATERIALS INCLUDING STONE AND FABRIC WHEN NEED FOR STORAGE IS OVER. RESTORE TO ORIGINAL GRADE WITH STOCKPILED EXCAVATED SOIL (NO FOREIGN DEBRIS).

CONSTRUCTION STOCKPILE/STORAGE AREA DETAIL
N.T.S.



Barton & Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL
ULSTER COUNTY

EROSION
AND SEDIMENT
CONTROL
DETAILS - 1

SCALE: AS SHOWN
DATE ISSUED: 5/2017
DRAWING
ESCD-1

NO. DATE BY REVISION

XX

Barton
Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL

EROSION AND
SEDIMENT
CONTROL
DETAILS - 2

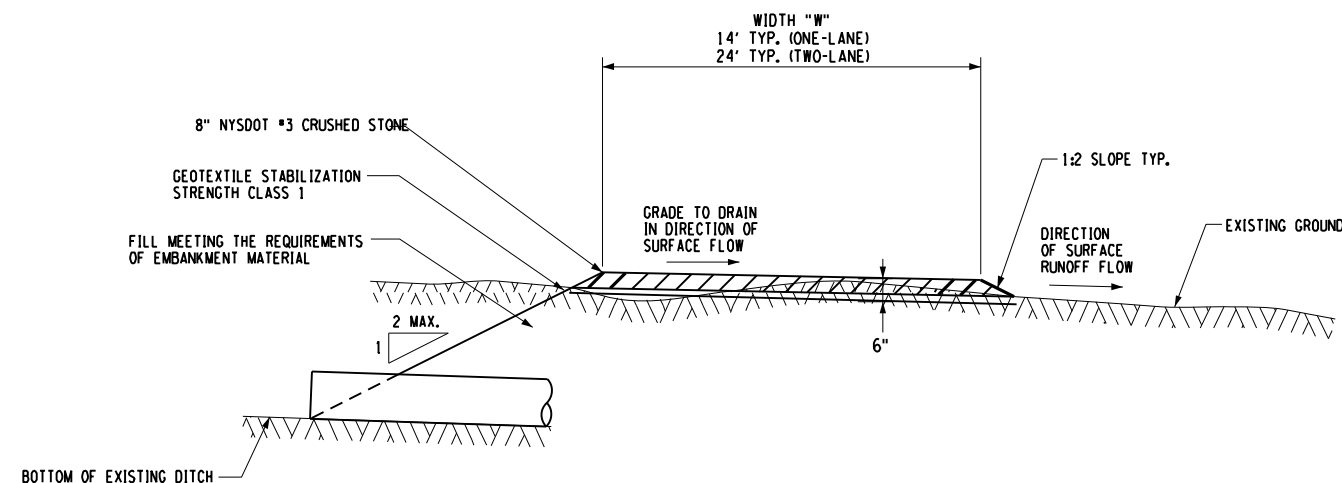
SCALE: NONE
DATE ISSUED: 3/2017
DRAWING
ESCD-2

APPLICATION NOTES:

- A. THE PURPOSE OF A STABILIZED CONSTRUCTION ENTRANCE IS TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY OR STREETS.

NOTES:

1. MODIFICATIONS MAY BE REQUIRED TO MATCH FIELD CONDITIONS.
2. A 30' WASH AREA SHALL BE PROVIDED. ADDITIONAL GRADING MAY BE REQUIRED TO PROVIDE WASHING AREAS.
3. PROPOSED DRAINAGE PIPES SHALL BE SIZED WITH SUFFICIENT CAPACITY TO CARRY DITCH FLOWS. ALTERNATE WAYS OF TRANSPORTING DITCH DRAINAGE ACROSS CONSTRUCTION ENTRANCES MAY BE PROPOSED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER.
4. THE CONTRACTOR SHALL GRADE TO PREPARE AND SMOOTH ORIGINAL GROUND FOR PLACEMENT OF 8" OF #3 CRUSHED STONE ENTRANCE MATERIAL UP TO THE EDGE OF PAVEMENT.
5. ALL WORK TO CONSTRUCT THE STABILIZED ENTRANCE, INCLUDING GRADING, DRAINAGE PIPE, EXCAVATION, FILL, GEOTEXTILE AND CRUSHED STONE OR GRAVEL SHALL BE INCLUDED IN THE UNIT PRICE BID.
6. 100% CRUSHED STONE MEETING THE NYSDOT #3 STONE GRADATION SHALL BE UTILIZED FOR CONSTRUCTION ENTRANCES



TYPICAL CONSTRUCTION ENTRANCE SECTION

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

DRAFT
NOT FOR CONSTRUCTION

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____
DRAFTED BY _____ CHECKED BY _____

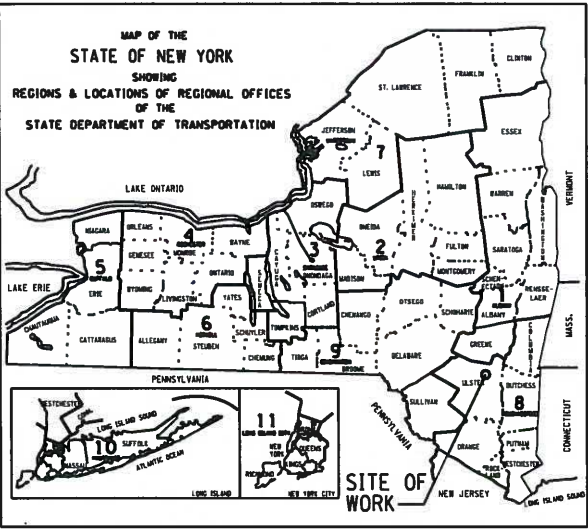
cmh
L:\MicroStation\Bentley V8i\WorkSpace\Plot\SITE_NYSDOT_SIZE_B.TBL
L:\MicroStation\Workspace\Plot\NYSDOT\NYSDOT_LJ5000_B_04_08.plt

FILE NAME = L:\NSTN Projects\03000\369.007 - Ashken Rail Trail\NSTN\Deconstruction Plans\019_369007001_ESCD_02.dgn
DATE = 9/13/2017
TIME = 6:08:58 PM

cmh
L:\MicroStation\Bentley V8i\WorkSpace\Plot\Site\NYSDOT\SIZE.B.TBL
L:\MicroStation\WorkSpace\Plot\NYSDOT\NYSDOT.LJ5000.B.04.08.plt

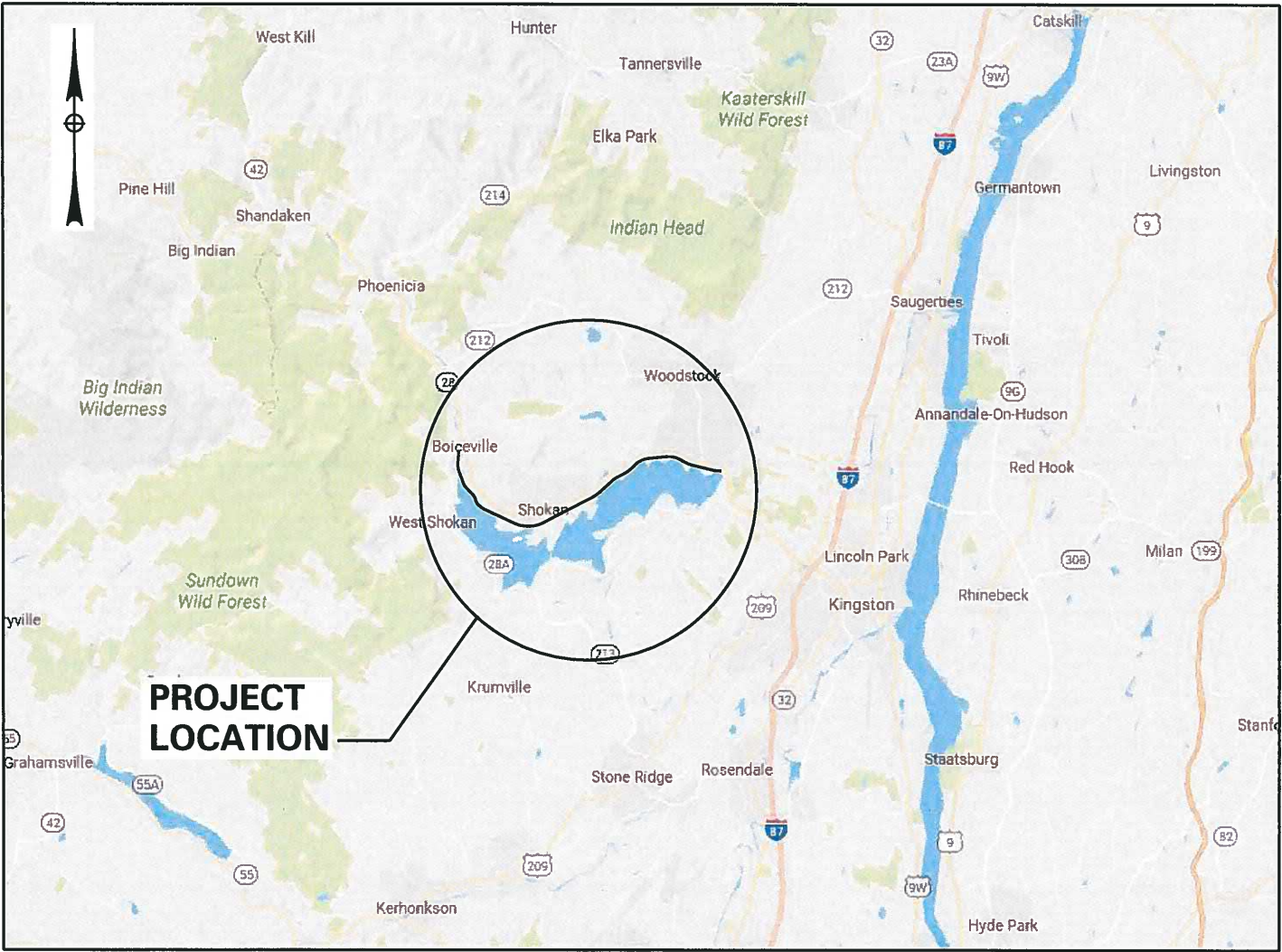
FILE NAME = L:\MSTN Projects\03000\369,007 - Ashokan Rail Trail\MSTN\Deconstruction Plans\Track.Cov.dgn
DATE = 9/18/2017
TIME = 10:52:13 AM

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ ESTIMATED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



ASHOKAN RAIL TRAIL ULSTER COUNTY

TRACK REMOVAL CONTRACT DRAWINGS SEPTEMBER 15, 2017



**PROJECT
LOCATION**

PROJECT LOCATION

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

**Barton
& Loguidice, D.P.C.**

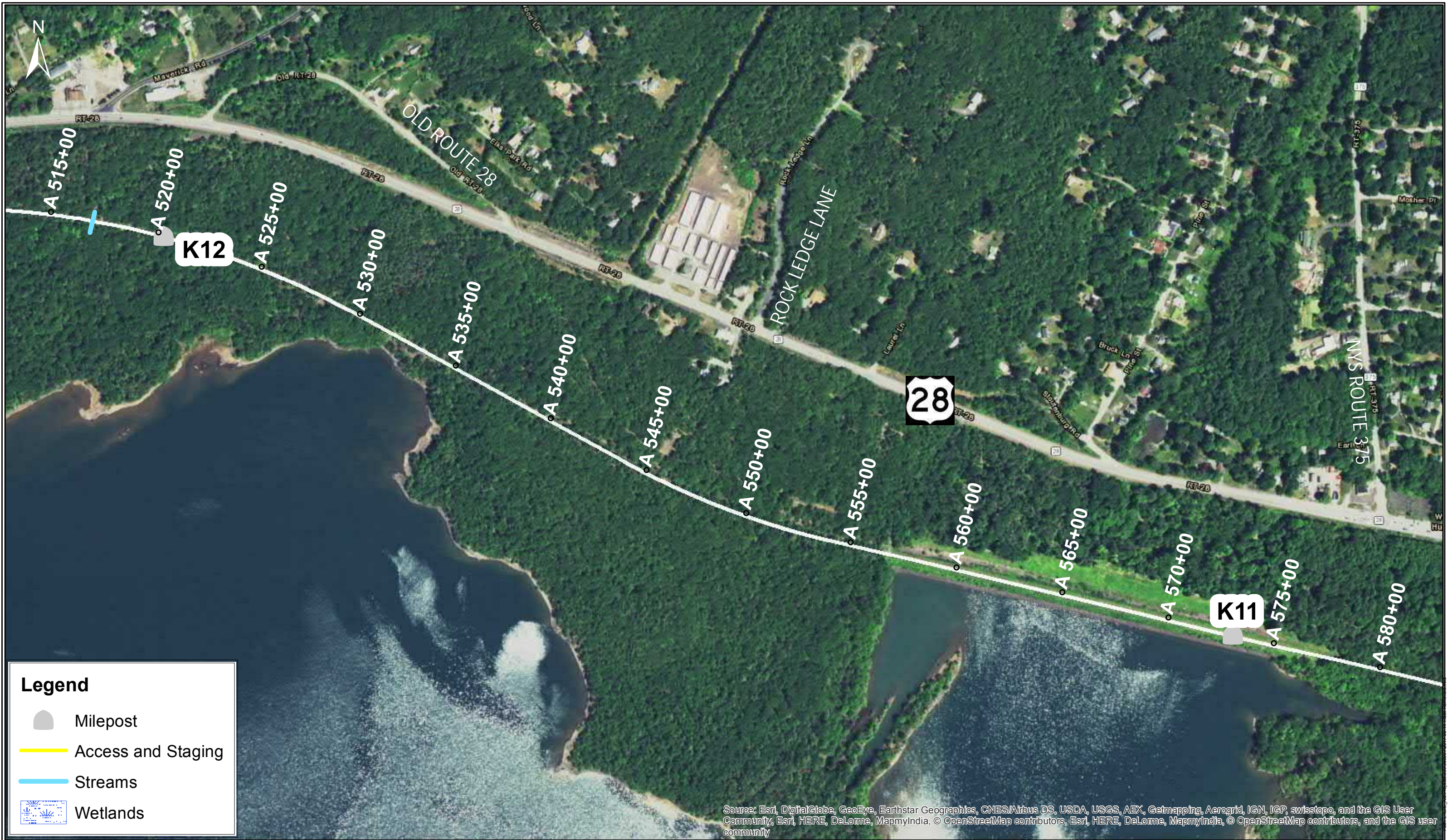
PREPARED AND RECOMMENDED BY

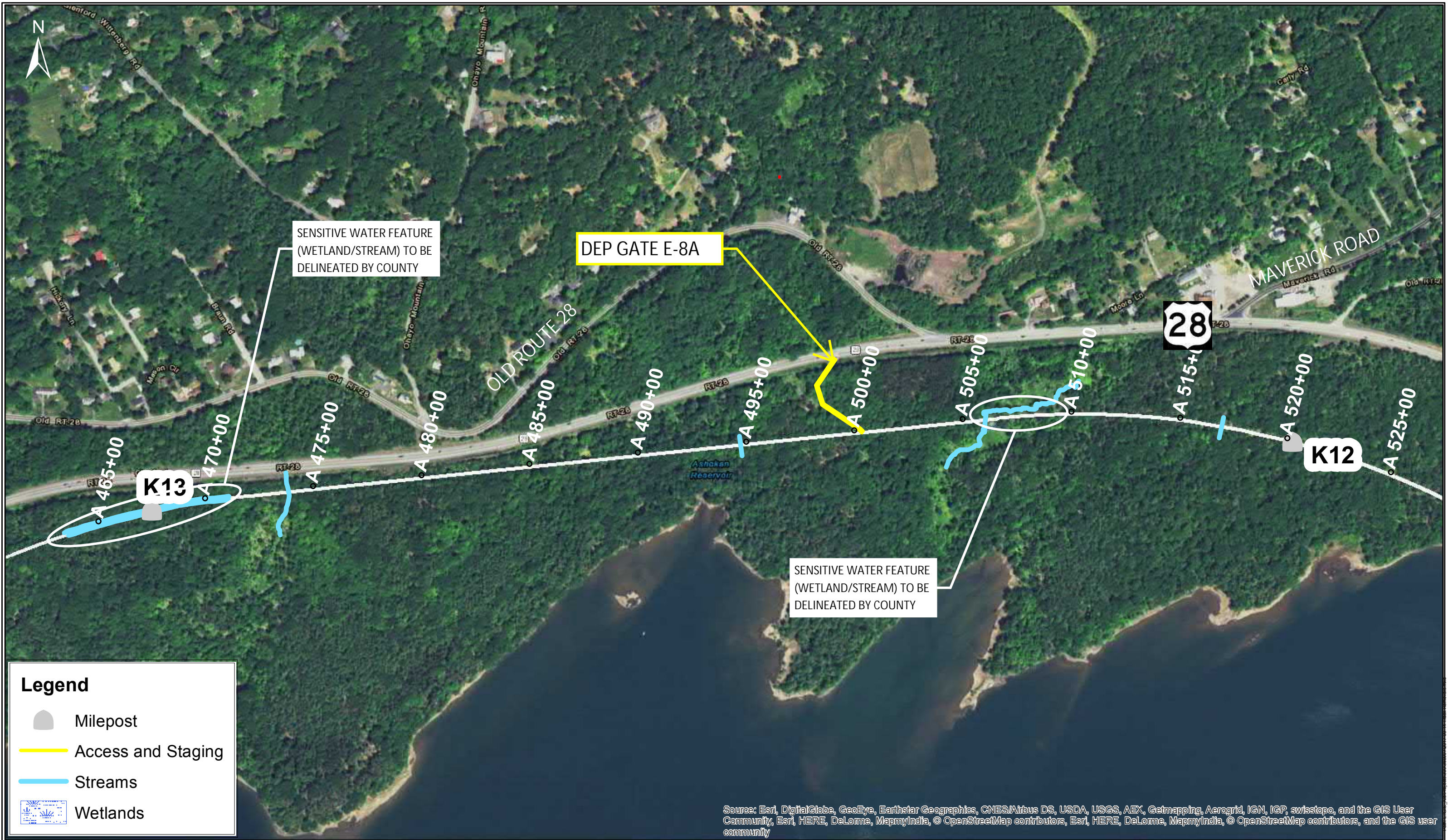


THOMAS C. BAIRD, P.E.
NEW YORK STATE PROFESSIONAL ENGINEERS LICENSE NO. 074590
DATE 9/18/2017





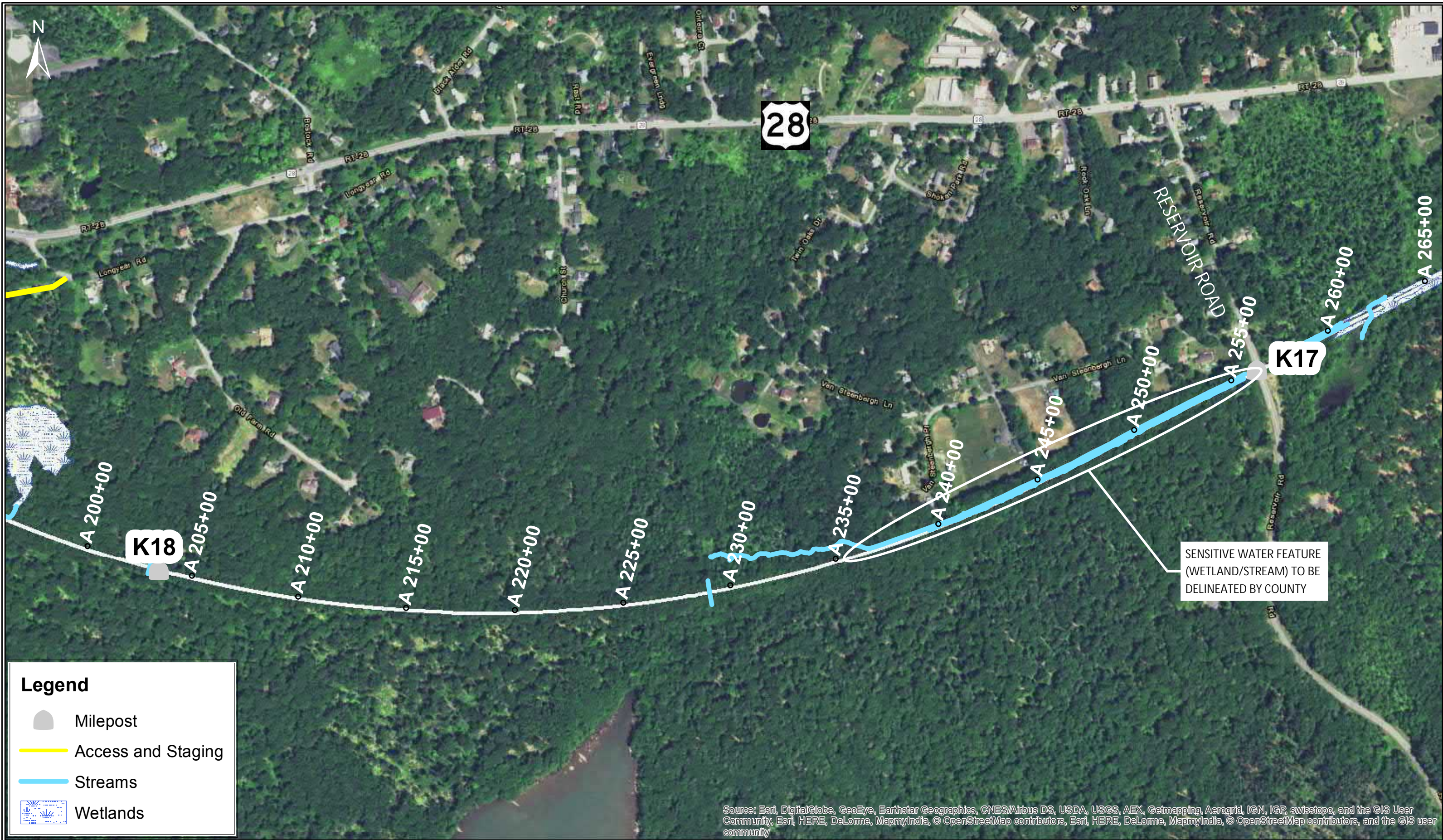


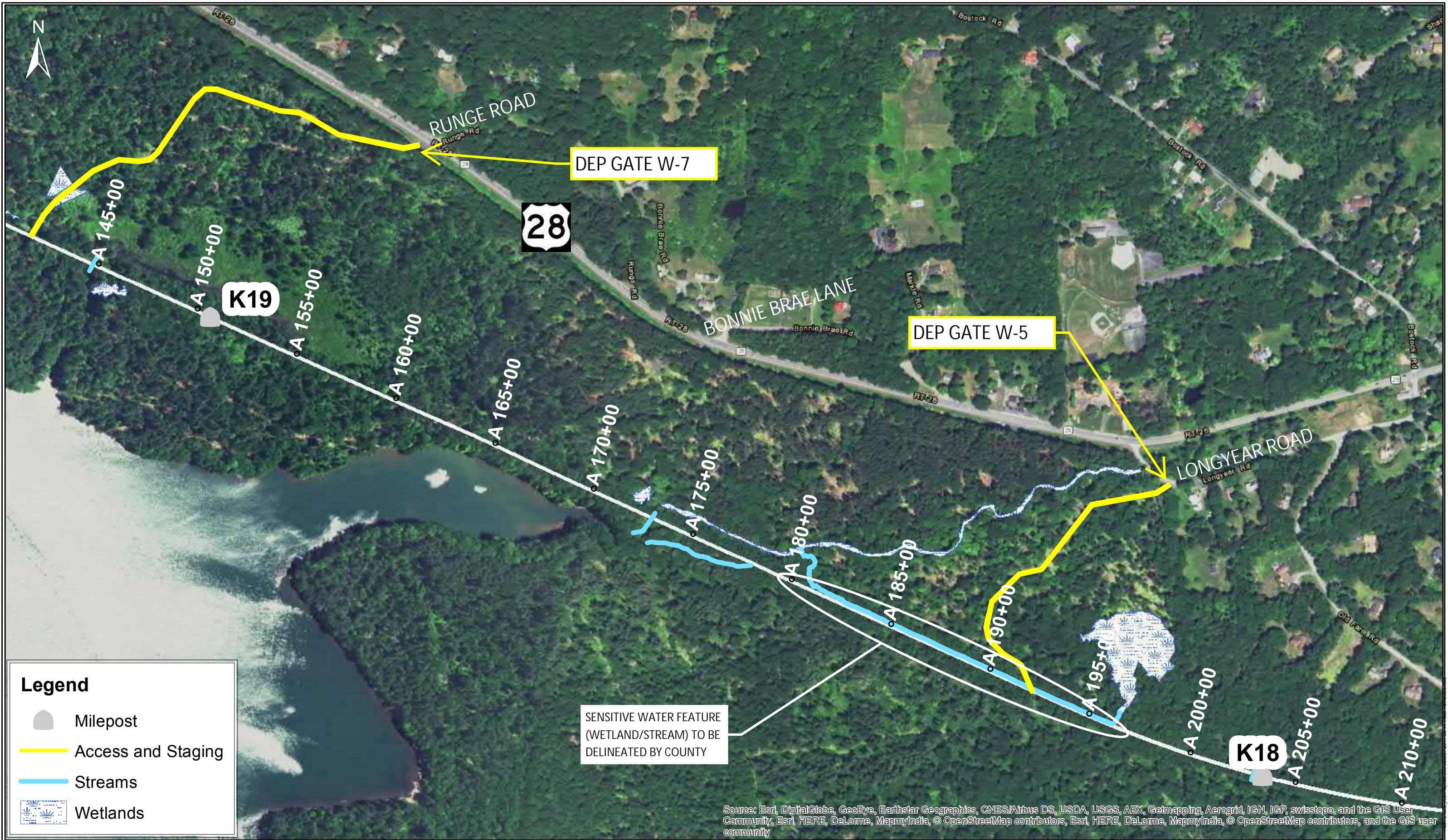














Legend

- Milepost
- Access and Staging
- Streams
- Wetlands

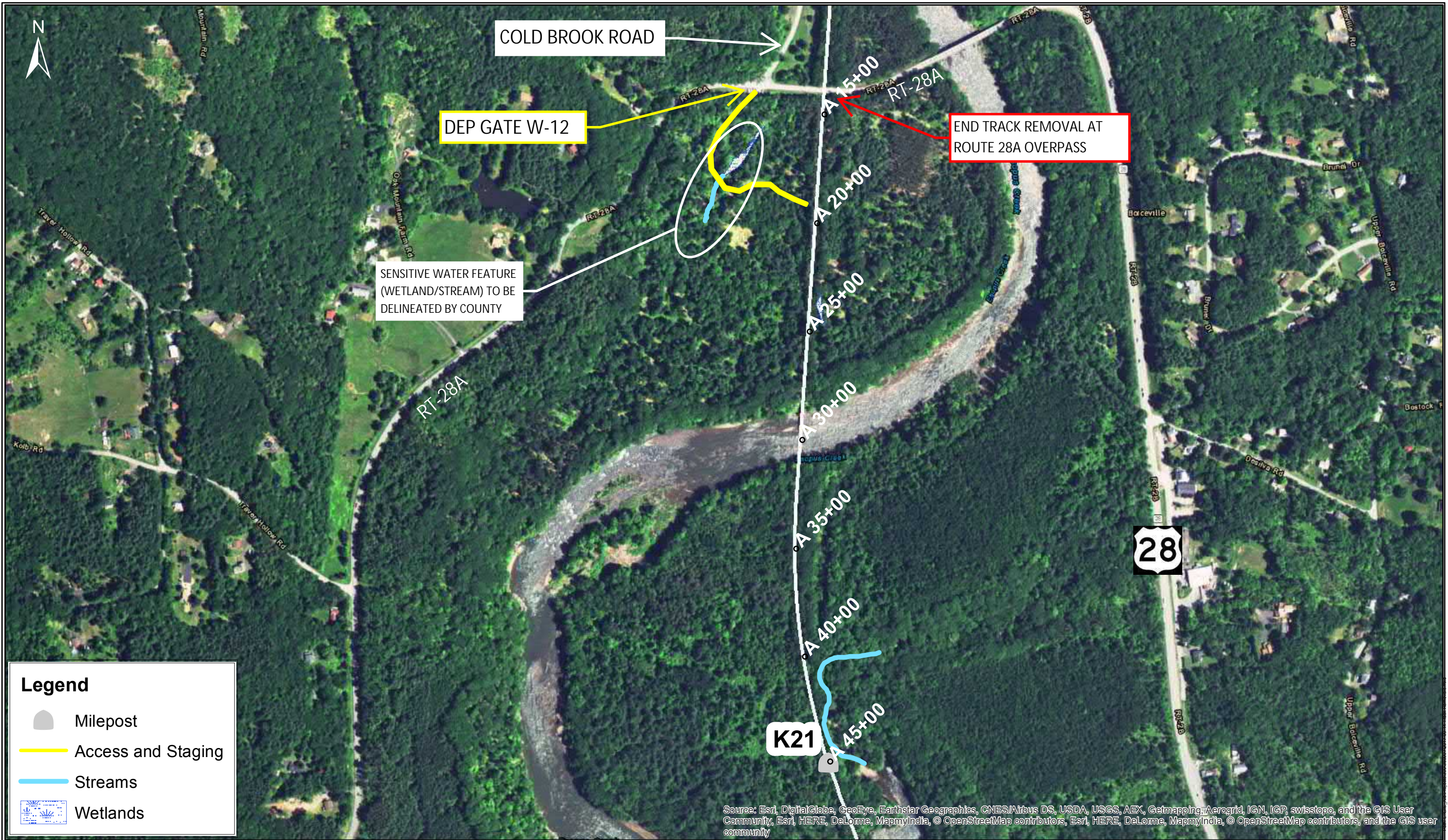




Legend

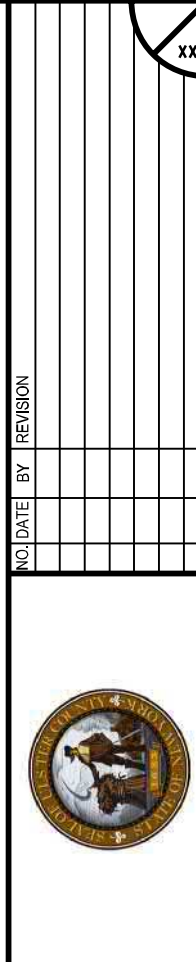
- Milepost
- Access and Staging
- Streams
- Wetlands





XX	
----	--

NO.	DATE	BY	REVISION
-----	------	----	----------

Barton
Loguidice, D.P.C.

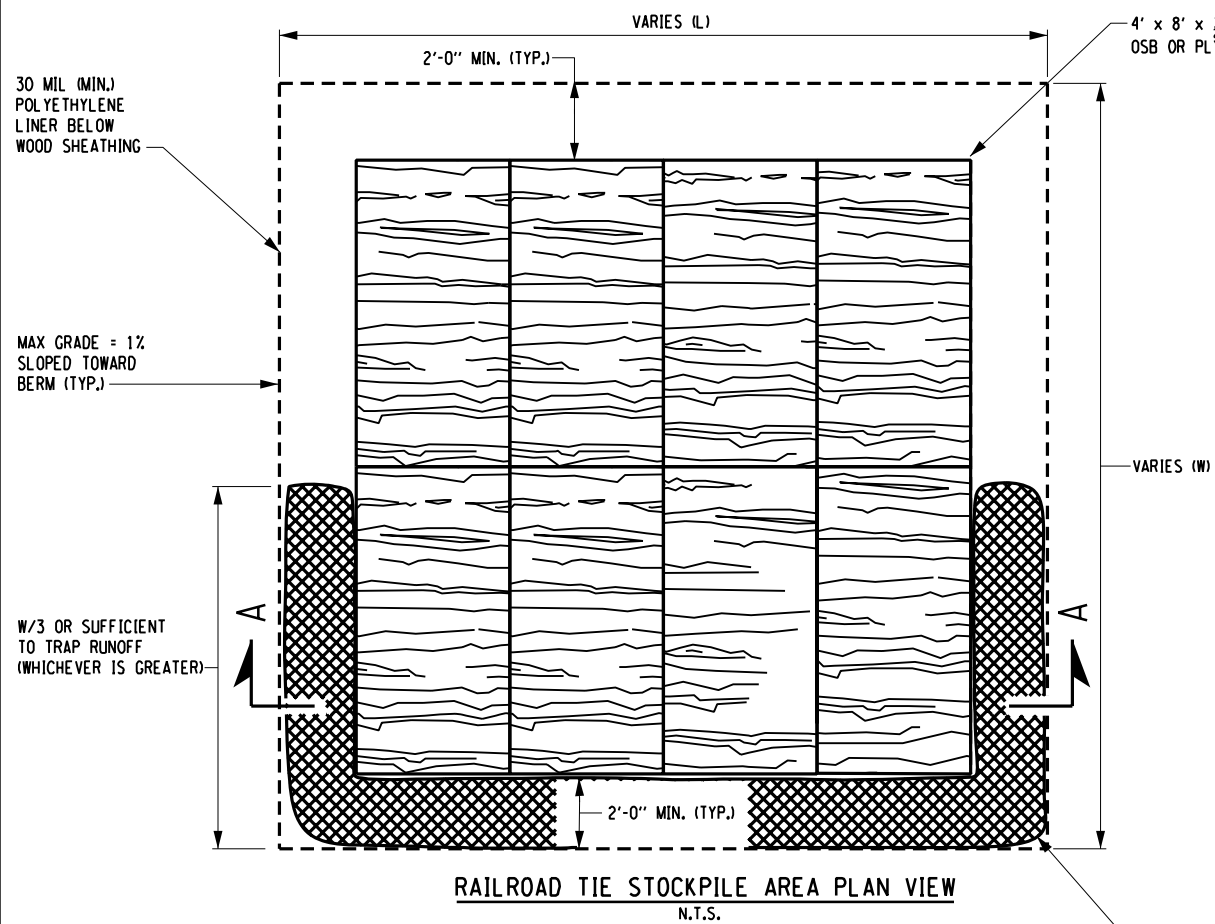
UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW, ARTICLE 145, SECTION 7209.

ASHOKAN RAIL TRAIL
ULSTER COUNTY

<p>TRACK REMOVAL DETAILS - 1</p>
<p>SCALE: AS SHOWN</p>
<p>DATE ISSUED: 9/2017</p>
<p>DRAWING TR-1</p>

SCALE: AS SHOWN
DATE ISSUED: 9/2017
DRAWING
TR-1

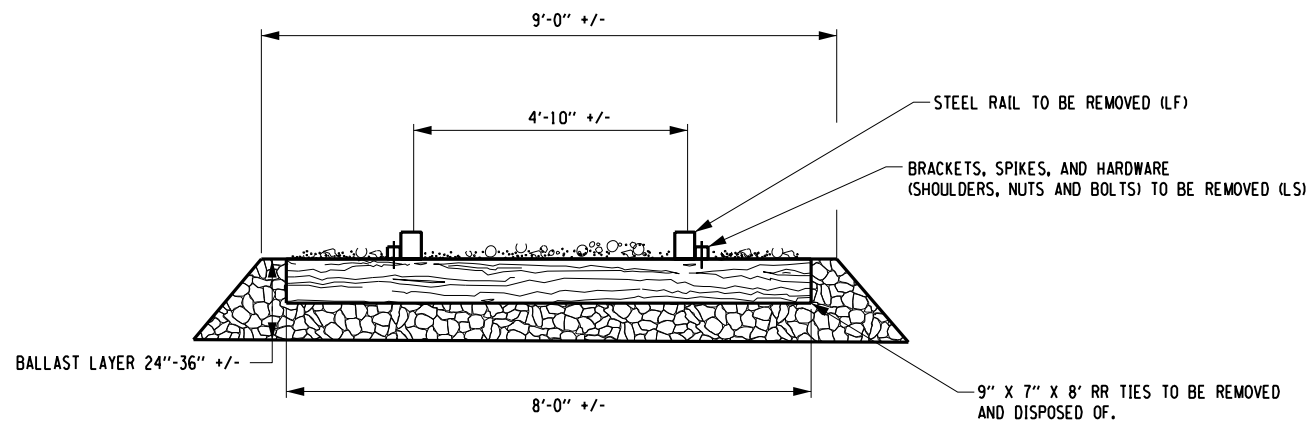
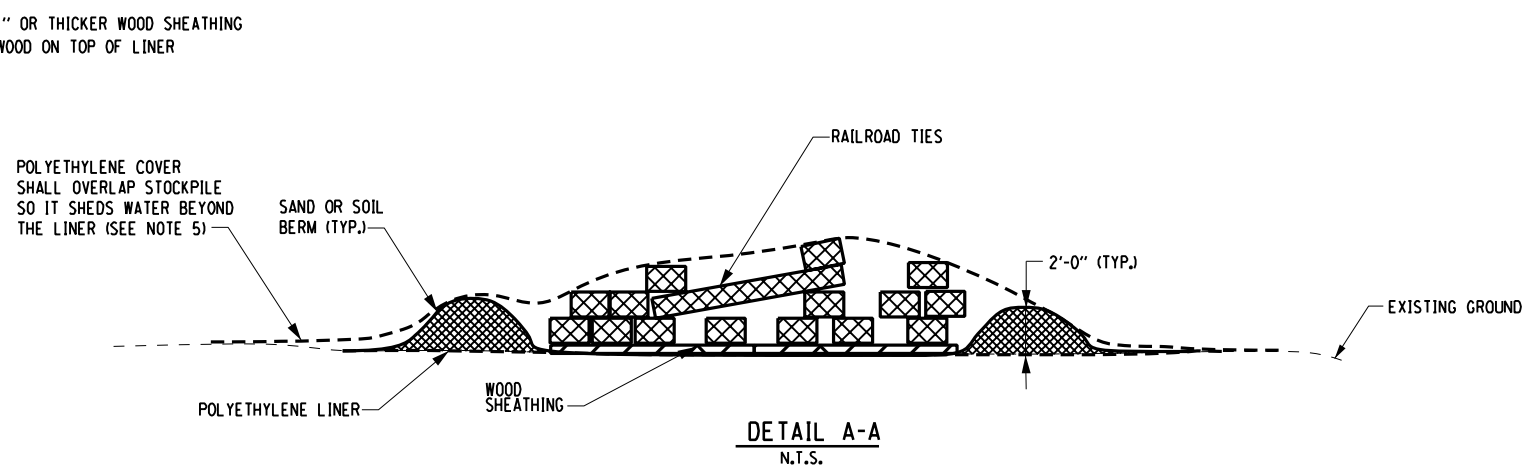
G



RAILROAD TIE STOCKPILE SECTION NOTES:

1. IT IS STRONGLY ENCOURAGED THAT THE CONTRACTOR UTILIZES A SYSTEM THAT DOES NOT REQUIRE THE RAILROAD TIES TO BE STOCKPILED PRIOR TO TRANSPORT OFF-SITE. HOWEVER, IF STOCKPILING ON-SITE IS REQUIRED THE CONTRACTOR SHALL USE THIS DETAIL IN AREAS WHERE THE RAILROAD TIES WILL BE LAID DOWN.
2. RAILROAD TIES REMOVED FROM THEIR EXISTING LOCATION SHALL ONLY BE ALLOWED TO BE TEMPORARILY STORED IN DESIGNATED STOCKPILE AREAS PRIOR TO REMOVAL FROM THE PROJECT SITE. TIES SHALL NOT BE STORED IN ANY OTHER LOCATION WITHIN OR ADJACENT TO THE PROJECT CORRIDOR.
3. THE AREAS CHOSEN FOR RAILROAD TIE STOCKPILING SHALL BE DRY, STABLE, AND LEVEL AND NOT WITHIN THE DRIPLINE OR CANOPY OF TREES. THE LOCATIONS SHALL BE AS NOTED IN THE TRACK REMOVAL CONTRACT DRAWINGS.
4. NO STOCKPILE AREA SHALL BE LOCATED WITHIN FIFTY (50) FEET OF A SURFACE WATER, FLOODPLAIN, SLOPE, DRAINAGE FACILITY, OR ROADWAY.
5. COVER STOCKPILE AREA WITH 15 MIL OR THICKER POLYETHYLENE AND ANCHOR.

PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :



STEEL TRACK HARDWARE AND TIE REMOVAL DETAIL

1. REMOVAL PROCEDURE:

REMOVE STEEL TRACK AND HARDWARE

REMOVE TIE.

GRADE REMAINING BALLAST INPLACE SMOOTH
2. AFTER ALL RAILROAD HARDWARE AND TIES HAVE
BEEN REMOVED, THE REMAINING BALLAST SHALL
BE GRADED SMOOTH TO REMOVE RUTS AND VOIDS
FROM WHERE THE TIES WERE REMOVED.

cmh
L:\MicroStation\Bentley_V8i\WorkSpace\Plot\SITE_NYS00T_SIZE_B.TBL
L:\MicroStation\Workspace\Plot\NYS00T\NYS00T_LJ5000_B.04_08.plt

FILE NAME = L:\WSTN_P\Projects\0300\369.007 - Ashokan Rai Trail\WSTN\Deconstruction Plans\011.369007001 TR_01.dgn
DATE = 9/18/2017
TIME = 2:31:00 PM

CHECKED BY

DRAFTED BY

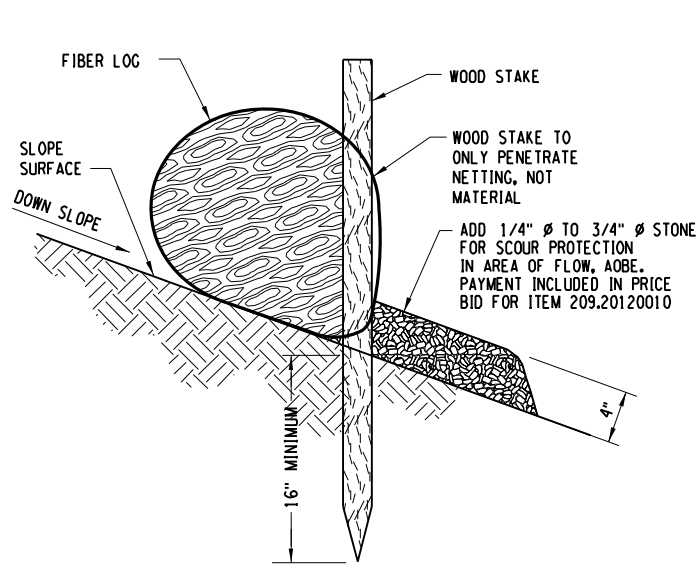
CHECKED BY _____

DESIGNED BY

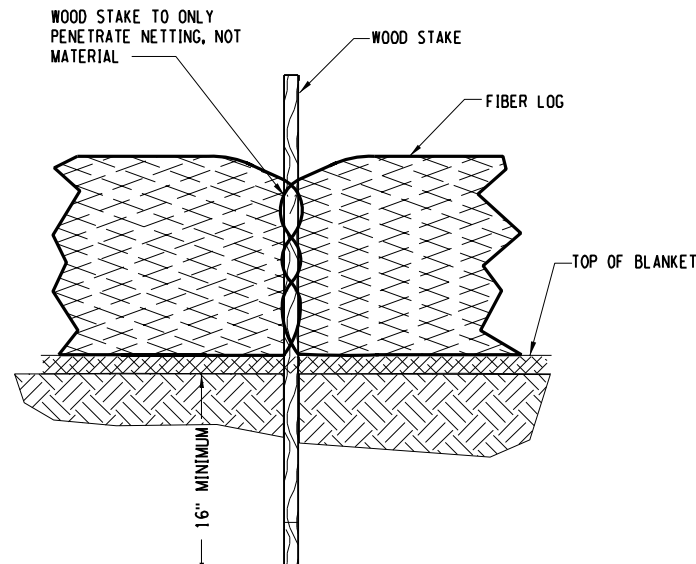
IN CHARGE OF _____

FILE NAME = L:\WINSTN\Projects\03000\369.007 - Ashoken Rail Trail\WINSTN\Deconstruction Plans\017.369007000.ESCD 01.dgn
DATE = 9/13/2017
TIME = 6:08:32 PM

IN CHARGE OF _____ DESIGNED BY _____ CHECKED BY _____ DRAFTED BY _____ CHECKED BY _____



FIBER LOG STAKE DETAIL (ON BARE SOIL)
N.T.S.



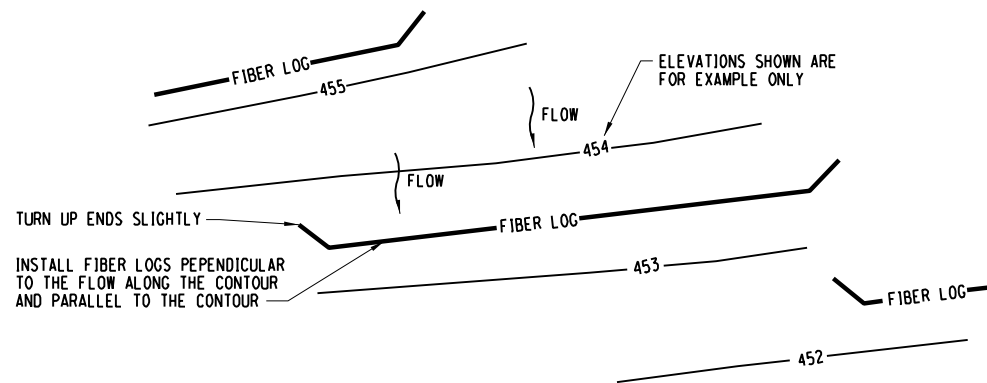
FIBER LOG STAKE DETAIL (FRONT VIEW)
N.T.S.

FIBER LOG CHECK DAM APPLICATION NOTES:

- THE PRIMARY PURPOSE OF A CHECK DAM IS TO REDUCE EROSION IN A CHANNEL BY REDUCING FLOW VELOCITY IN THE CHANNEL.
- CHECK DAMS WILL CAPTURE SEDIMENT THAT FALLS OUT OF SUSPENSION BEHIND THE CHECK DAM DUE TO DECREASED VELOCITY.
- CHECK DAMS ARE NOT INTENDED TO, AND WILL NOT FILTER SEDIMENT FROM TURBID WATER.

NOTES:

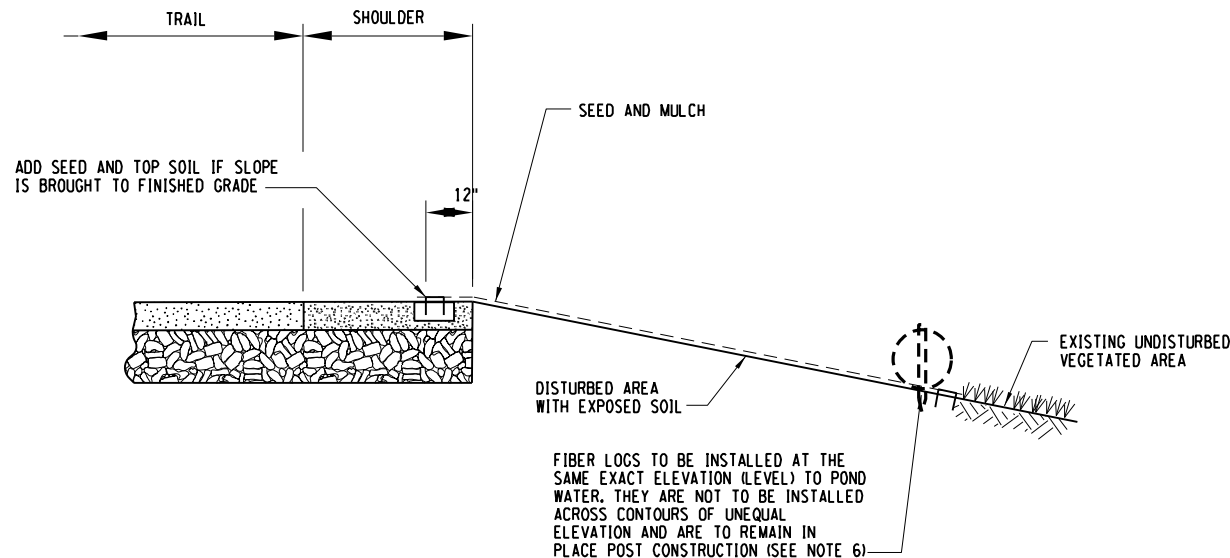
- DRAINAGE AREAS: MAXIMUM DRAINAGE AREA TRIBUTARY TO FIBER LOG CHECK DAM SHALL BE 1 ACRE. MAXIMUM DRAINAGE AREA TRIBUTARY TO PREFABRICATED CHECK DAM SHALL BE 1/2 ACRE.
- POSTS MAY BE 1/4" x 1/4" (MIN.) HARDWOOD, 1/2" x 3/2" (MIN.) SOFTWOOD. ADDITIONAL POSTS ARE REQUIRED AT THE OUTER EDGES OF DITCH WIDTH.
- THE FIBER LOG SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSTREAM SIDE OF THE FABRIC AS SHOWN.
- SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT OF THE FIBER LOG. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.



FIBER LOG PLAN EXAMPLE
N.T.S.

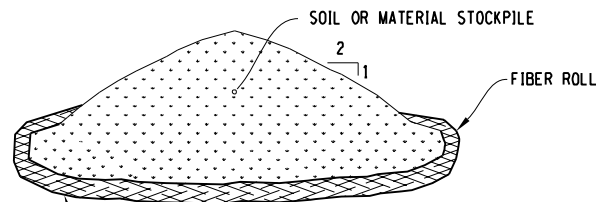
PREPARED BY: BARTON & LOGUIDICE, D.P.C.
ON :

EROSION AND SEDIMENT CONTROL FOR ALL DISTURBED AREAS
TEMPORARY OR PERMANENT
N.T.S.



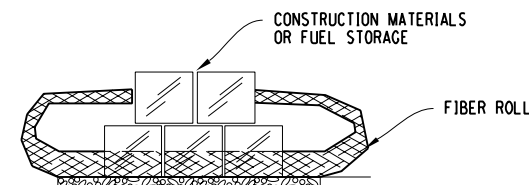
NOTES:

- ITEMS IN THIS DETAIL MAY APPEAR EXAGGERATED TO SHOW DETAIL.
- IF SLOPE IS BROUGHT TO FINISHED GRADE, PERMANENT TOP SOIL AND SEEDING SHALL BE INSTALLED PRIOR TO INSTALLING ITEM 209.2103 - SOIL STABILIZERS, CLASS IV TYPE C. IF SLOPES ARE NOT BROUGHT TO FINISH GRADE THEY ARE TO BE TREATED WITH ITEM 209.1003 - TEMPORARY SEED AND MULCH.
- AS PART OF FINAL STABILIZATION, WOODEN STAKES TO BE REMOVED AND FIBER LOG MULCH NETTING CUT OPEN ALONG ENTIRE LENGTH.
- USE STRAW MULCH FOR EROSION PREVENTION



EXCAVATED AND IMPORTED
SOIL AND MATERIAL STOCKPILE
N.T.S.

- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE. THE AREA SHALL NOT BE WITHIN THE DRIPLINE OR CANOPY OF EXISTING TREES. THE LOCATION SHALL BE AS NOTED ON THE DRAWINGS. DREDGED OR EXCAVATED MATERIALS SHALL BE PLACED UPON SILT FENCE FABRIC.
- MAXIMUM SLOPE OF STOCKPILE SHALL BE 2(H) TO 1(V).
- FIBER LOGS SHALL BE PLACED FIVE (5) FEET DOWNSLOPE OF EACH PILE. UPON COMPLETION OF SOIL STOCKPILING, TOPSOIL SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH IF NOT TO BE DISTURBED/UTILIZED WITHIN FOURTEEN (14) DAYS.



FUEL, EQUIPMENT, OR
MATERIAL STORAGE AREA
N.T.S.

- AREA CHOSEN FOR STORAGE OPERATIONS SHALL BE DRY AND STABLE. THE AREA SHALL NOT BE WITHIN THE DRIPLINE OR CANOPY OF TREES. THE LOCATION SHALL BE AS NOTED ON THE DRAWINGS.
- NO STOCKPILE AREA SHALL BE LOCATED WITHIN FIFTY (50) FEET OF SURFACE WATER, FLOODPLAIN, SLOPE, DRAINAGE FACILITY OR ROADWAY.
- IF STABLE SURFACE NOT AVAILABLE, THE TOP SIX (6) INCHES OF NATIVE MATERIAL SHALL BE EXCAVATED FROM THE MATERIAL/FUEL STORAGE AREA AND STOCKPILED TO REUSE FOR RESTORATION OF THIS AREA. IN THE AREA EXCAVATED, PLACE SEPARATION FABRIC AND SIX (6) INCHES OF #2 CRUSHED STONE BEDDING, SEE SPECIFICATIONS. IF APPROVED BY THE ENGINEER, USE OF EXISTING GRAVEL AREAS MAY BE USED IN LIEU OF EXCAVATION, STONE, AND FABRIC.
- FIBER LOGS SHALL BE PLACED FIVE (5) FEET DOWNSLOPE OF STORAGE AREA.
- REMOVE ALL MATERIALS INCLUDING STONE AND FABRIC WHEN NEED FOR STORAGE IS OVER. RESTORE TO ORIGINAL GRADE WITH STOCKPILED EXCAVATED SOIL (NO FOREIGN DEBRIS).

CONSTRUCTION STOCKPILE/STORAGE AREA DETAIL
N.T.S.



Barton & Loguidice, D.P.C.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

ASHOKAN RAIL TRAIL
ULSTER COUNTY

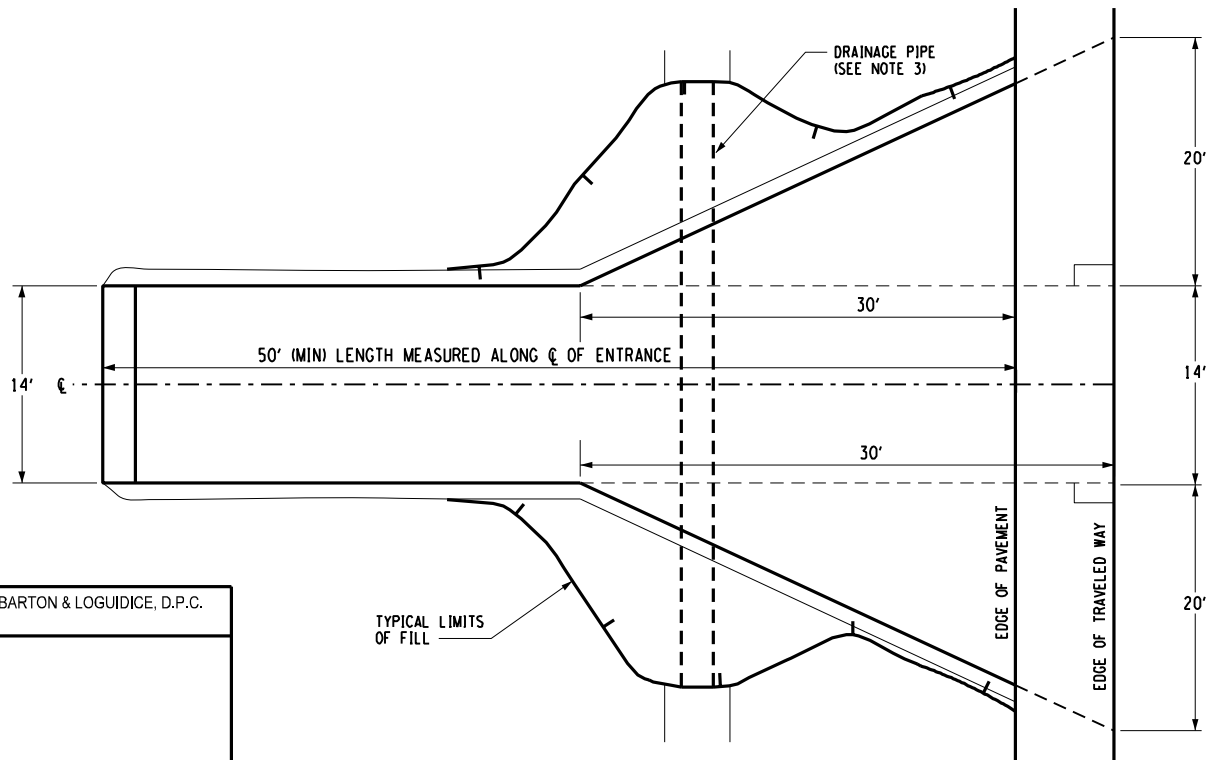
EROSION
AND SEDIMENT
CONTROL
DETAILS - 1

SCALE: AS SHOWN
DATE ISSUED: 9/2017
DRAWING
ESCD-1

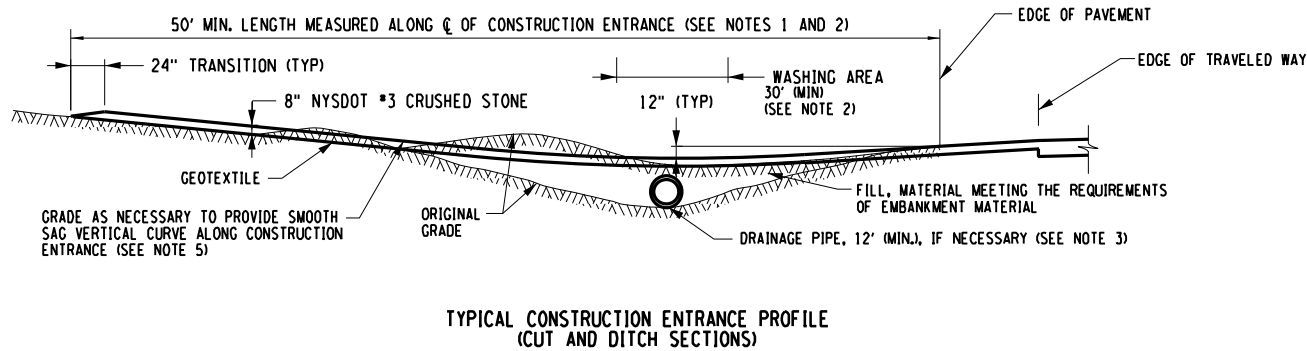
FILE NAME = L:\MNSTN\Projects\0300\369.007 - Ashokan Rail Trail\MNSTN\Deconstruction Plans\019-369007000.ESCD 02.dgn
DATE = 9/13/2017
TIME = 6:08:58 PM

cmh
L:\MicroStation\Bentley_V8\WorkSpace\Plot\WSDOT\WSDOT.LJ5000.B.04.00.plt
L:\MicroStation\WorkSpace\Plot\WSDOT\WSDOT.LJ5000.B.04.00.plt

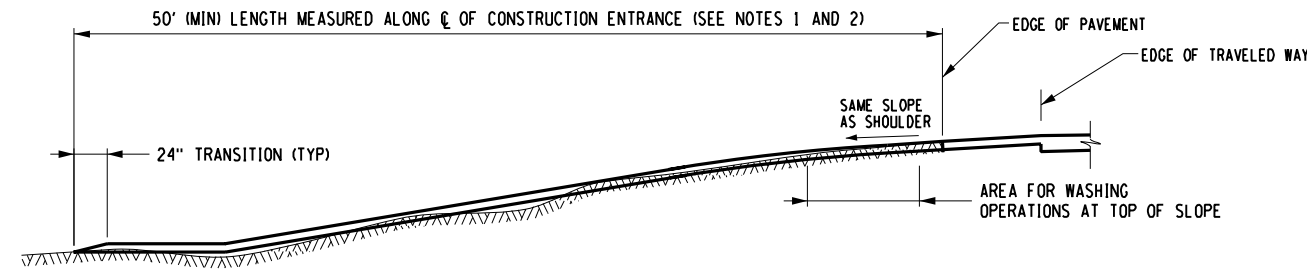
IN CHARGE OF _____
DESIGNED BY _____
CHECKED BY _____
DRAFTED BY _____
CHECKED BY _____



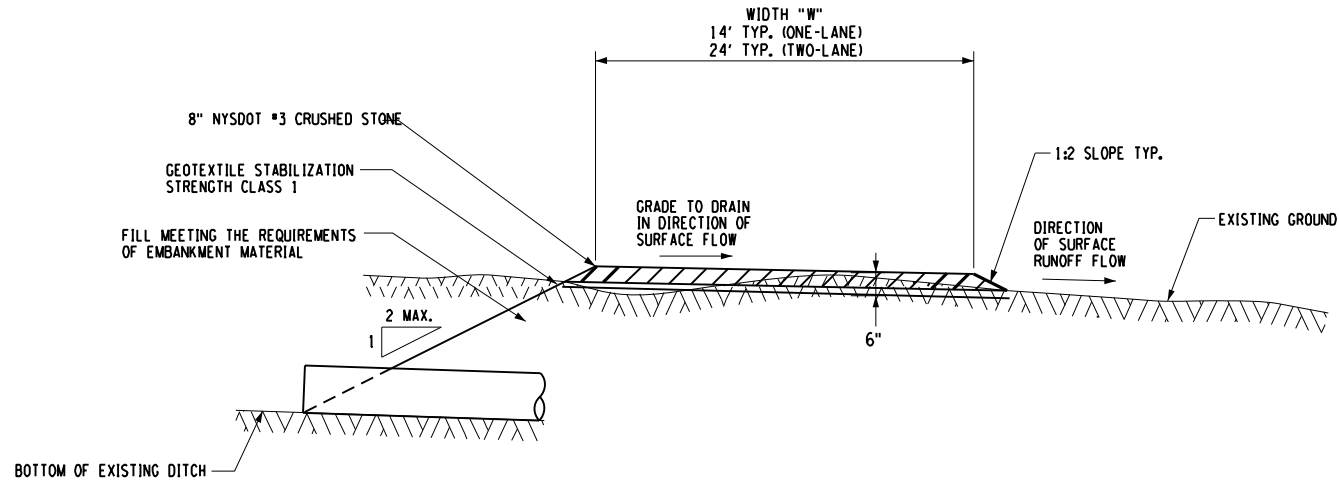
TYPICAL CONSTRUCTION ENTRANCE PLAN
(CUT/DITCH AND FILL SECTIONS)



TYPICAL CONSTRUCTION ENTRANCE PROFILE
(CUT AND DITCH SECTIONS)



TYPICAL CONSTRUCTION ENTRANCE PROFILE
(FILL SECTIONS)



TYPICAL CONSTRUCTION ENTRANCE SECTION

CONSTRUCTION ENTRANCES:

APPLICATION NOTES:

- A. THE PURPOSE OF A STABILIZED CONSTRUCTION ENTRANCE IS TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY OR STREETS.

NOTES:

1. MODIFICATIONS MAY BE REQUIRED TO MATCH FIELD CONDITIONS.
2. A 30' WASH AREA SHALL BE PROVIDED. ADDITIONAL GRADING MAY BE REQUIRED TO PROVIDE WASHING AREAS.
3. PROPOSED DRAINAGE PIPES SHALL BE SIZED WITH SUFFICIENT CAPACITY TO CARRY DITCH FLOWS. ALTERNATE WAYS OF TRANSPORTING DITCH DRAINAGE ACROSS CONSTRUCTION ENTRANCES MAY BE PROPOSED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER.
4. THE CONTRACTOR SHALL GRADE TO PREPARE AND SMOOTH ORIGINAL GROUND FOR PLACEMENT OF 8" OF #3 CRUSHED STONE ENTRANCE MATERIAL UP TO THE EDGE OF PAVEMENT.
5. ALL WORK TO CONSTRUCT THE STABILIZED ENTRANCE, INCLUDING GRADING, DRAINAGE PIPE, EXCAVATION, FILL, GEOTEXTILE AND CRUSHED STONE OR GRAVEL SHALL BE INCLUDED IN THE UNIT PRICE BID.
6. 100% CRUSHED STONE MEETING THE NYSDOT #3 STONE GRADATION SHALL BE UTILIZED FOR CONSTRUCTION ENTRANCES



Barton & Loguidice, D.P.C.

ASHOKAN RAIL TRAIL
ULSTER COUNTY

EROSION AND
SEDIMENT
CONTROL
DETAILS - 2

SCALE: NONE
DATE ISSUED: 9/2017
DRAWING
ESCD-2

NO. DATE BY REVISION

XX

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING IS A VIOLATION OF THE NEW YORK STATE
EDUCATION LAW ARTICLE 145 SECTION 7209

Exhibit 6: SEQRA Documentation

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project: Ashokan Rail Trail		
Project Location (describe, and attach a general location map): Towns of Hurley and Olive, Ulster County		
Brief Description of Proposed Action (include purpose or need): Ulster County is proposing construction of an 11.5-mile pedestrian and bicycle trail from Basin Road in the Town of Hurley to Route 28A in the Town of Olive, as shown on the enclosed Project area map. The Project will establish a non-motorized recreational trail on the County-owned Ulster & Delaware Railroad corridor along the northern shore of the Ashokan Reservoir. The Project includes repurposing of the existing railroad bed and ballast, removal of rail ties and tracks, construction of multiple trailheads, reconstruction of a failed major culvert, repair to existing drainage structures, and replacement of the bridge structure over the Esopus Creek near Boiceville, which was destroyed during Hurricane Irene in 2011. The Project goals are to improve recreational opportunities, enhance quality of life, and boost economic development and tourism in Ulster County while also protecting the quality of the Ashokan Reservoir water supply.		
Name of Applicant/Sponsor: Ulster County, C/O Mr. Michael Hein, County Executive		Telephone: (845) 340-3800
		E-Mail: exec@co.ulster.ny.us
Address: 244 Fair Street, PO Box 1800		
City/PO: Kingston	State: NY	Zip Code: 12402
Project Contact (if not same as sponsor; give name and title/role): Mr. Christopher White, Ulster County Planning Dept., Deputy Director/Project Manager		Telephone: (845) 340-3338
		E-Mail: cwhi@co.ulster.ny.us
Address: 244 Fair Street, PO Box 1800		
City/PO: Kingston	State: NY	Zip Code: 12402
Property Owner (if not same as sponsor): New York City Department of Environmental Protection (County owns railroad easement)		Telephone: (845) 340-7218
		E-Mail: CLaing@dep.nyc.gov
Address: 71 Smith Avenue		
City/PO: Kingston	State: NY	Zip Code: 12401

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No or Village Board of Trustees		
b. City, Town or Village <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Planning Board or Commission		
c. City Council, Town or <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Village Zoning Board of Appeals		
d. Other local agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
e. County agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ulster County Legislature (SEQRA/ Funding)	
f. Regional agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	NYCDEP (SWPPP - Design Approval)	
g. State agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	NYSDEC (Wetland, Habitat, Endangered Species, Protect Water), NYSHPO (Arch & Historic)	
h. Federal agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	US Army Corps of Engineers (Wetland jurisdiction)	
i. Coastal Resources.		
i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
iii. Is the project site within a Coastal Erosion Hazard Area?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

C. Planning and Zoning

C.1. Planning and zoning actions.	
Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<ul style="list-style-type: none"> If Yes, complete sections C, F and G. If No, proceed to question C.2 and complete all remaining sections and questions in Part 1 	
C.2. Adopted land use plans.	
a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes, identify the plan(s):	
New York City Watershed Boundary - subject to NYC Watershed Rules and Regulations	
c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes, identify the plan(s):	
Ulster County Open Space Plan	

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☒ Yes ☐ No

If Yes, what is the zoning classification(s) including any applicable overlay district?

Conservation Residential and very low density residential

b. Is the use permitted or allowed by a special or conditional use permit? ☒ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☒ No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Onteora Central School District, Kingston City Schools

b. What police or other public protection forces serve the project site?

Olive Police Department, Ulster County Sheriff, NYS Police, NYC DEP Police

c. Which fire protection and emergency medical services serve the project site?

Olive Fire Department, Olive First Aid, Inc., Hurley Fire Department

d. What parks serve the project site?

None

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Recreational

b. a. Total acreage of the site of the proposed action? _____ 56 acres

b. Total acreage to be physically disturbed? _____ 42 acres

c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ 56 acres

← Calculated by length (11.5 miles) multiplied by 30 feet average width

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☒ No

i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☒ No

If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) _____

ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will proposed action be constructed in multiple phases? ☒ Yes ☐ No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

• Total number of phases anticipated _____ 2

• Anticipated commencement date of phase 1 (including demolition) _____ 7 month 2017 year

• Anticipated completion date of final phase _____ 11 month 2018 year

• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

Phasing of the project relates to constraints on access to the site and the difficulty of construction during winter months primarily due to access

f. Does the project include new residential uses? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, show numbers of units proposed.				
	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes,	
i. Total number of structures _____	
ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length	
iii. Approximate extent of building space to be heated or cooled: _____ square feet	

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes,	
i. Purpose of the impoundment: _____	
ii. If a water impoundment, the principal source of the water: <input type="checkbox"/> Ground water <input type="checkbox"/> Surface water streams <input type="checkbox"/> Other specify: _____ 	
iii. If other than water, identify the type of impounded/contained liquids and their source. _____	
iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres	
v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length	
vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____	

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) If Yes:	
i. What is the purpose of the excavation or dredging? _____	
ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?	
<ul style="list-style-type: none"> • Volume (specify tons or cubic yards): _____ • Over what duration of time? _____ 	
iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____	
iv. Will there be onsite dewatering or processing of excavated materials? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If yes, describe. _____	
v. What is the total area to be dredged or excavated? _____ acres	
vi. What is the maximum area to be worked at any one time? _____ acres	
vii. What would be the maximum depth of excavation or dredging? _____ feet	
viii. Will the excavation require blasting? <input type="checkbox"/> Yes <input type="checkbox"/> No	
ix. Summarize site reclamation goals and plan: _____	

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes:	
i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): <u>NYSDEC Freshwater Wetland AS- 19 and AS-20 as well as H-171-P 848-12, H-171-P 848-11, H-171-P 848-10, H-171-P 848-9 and unmapped stream resources</u>	

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:
Wetland AS-20 and 1 unmapped wetland would have a minor linear impact as well as some adjacent area impacts. Culvert repair and proposed bridge work will require entry into waterways and temporary bank impacts. Note: The proposed trail alignment follows the existing built railroad corridor

iii. Will proposed action cause or result in disturbance to bottom sediments? ☒ Yes ☐ No
 If Yes, describe: Major culvert repair and/or bridge reconstruction may cause temporary disturbance

iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☒ No
 If Yes:
 • acres of aquatic vegetation proposed to be removed: _____
 • expected acreage of aquatic vegetation remaining after project completion: _____
 • purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
 • proposed method of plant removal: _____
 • if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____
The wetland will be restored to pre-construction conditions and losses mitigated. Enhancement and restoration will occur.

c. Will the proposed action use, or create a new demand for water? ☐ Yes ☒ No
 If Yes:
 i. Total anticipated water usage/demand per day: _____ gallons/day
 ii. Will the proposed action obtain water from an existing public water supply? ☐ Yes ☐ No
 If Yes:
 • Name of district or service area: _____
 • Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No
 • Is the project site in the existing district? ☐ Yes ☐ No
 • Is expansion of the district needed? ☐ Yes ☐ No
 • Do existing lines serve the project site? ☐ Yes ☐ No
 iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☐ No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____
 • Source(s) of supply for the district: _____
 iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☐ No
 If, Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • Proposed source(s) of supply for new district: _____
 v. If a public water supply will not be used, describe plans to provide water supply for the project: _____
 vi. If water supply will be from wells (public or private), maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐ Yes ☒ No
 If Yes:
 i. Total anticipated liquid waste generation per day: _____ gallons/day
 ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☐ Yes ☒ No
 If Yes:
 • Name of wastewater treatment plant to be used: _____
 • Name of district: _____
 • Does the existing wastewater treatment plant have capacity to serve the project? ☐ Yes ☐ No
 • Is the project site in the existing district? ☐ Yes ☐ No
 • Is expansion of the district needed? ☐ Yes ☐ No

<ul style="list-style-type: none"> • Do existing sewer lines serve the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No • Will line extension within an existing district be necessary to serve the project? <input type="checkbox"/> Yes <input type="checkbox"/> No <p>If Yes:</p> <ul style="list-style-type: none"> • Describe extensions or capacity expansions proposed to serve this project: _____ 	
<p>iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <ul style="list-style-type: none"> • Applicant/sponsor for new district: _____ • Date application submitted or anticipated: _____ • What is the receiving water for the wastewater discharge? _____ 	
<p>v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans):</p> <p>_____</p> <p>_____</p>	
<p>vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____</p> <p>_____</p> <p>_____</p>	
<p>e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. How much impervious surface will the project create in relation to total size of project parcel?</p> <p style="padding-left: 40px;">500 Square feet or 0.01 acres (impervious surface)</p> <p style="padding-left: 40px;">2.4M Square feet or 56 acres (parcel size)</p> <p>ii. Describe types of new point sources. the occasional swale will collect runoff in isolated locations and parking lots where it will be directed to sheet flow and infiltration locations</p> <p>_____</p> <p>iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?</p> <p style="padding-left: 20px;">on-site infiltration practices</p> <p>_____</p> <p>_____</p> <ul style="list-style-type: none"> • If to surface waters, identify receiving water bodies or wetlands: _____ <p>_____</p> <ul style="list-style-type: none"> • Will stormwater runoff flow to adjacent properties? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 	
<p>iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes, identify:</p> <p>i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)</p> <p style="padding-left: 20px;">Heavy equipment during construction phase only</p> <p>ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)</p> <p style="padding-left: 20px;">N/A</p> <p>iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)</p> <p style="padding-left: 20px;">N/A</p>	
<p>g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>ii. In addition to emissions as calculated in the application, the project will generate:</p> <ul style="list-style-type: none"> • _____ Tons/year (short tons) of Carbon Dioxide (CO₂) • _____ Tons/year (short tons) of Nitrous Oxide (N₂O) • _____ Tons/year (short tons) of Perfluorocarbons (PFCs) • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆) • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs) • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs) 	

<p>h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Estimate methane generation in tons/year (metric): _____</p> <p>ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____</p>			
<p>i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____</p>			
<p>j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. When is the peak traffic expected (Check all that apply): <input type="checkbox"/> Morning <input type="checkbox"/> Evening <input type="checkbox"/> Weekend <input type="checkbox"/> Randomly between hours of _____ to _____.</p> <p>ii. For commercial activities only, projected number of semi-trailer truck trips/day: _____</p> <p>iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____</p> <p>iv. Does the proposed action include any shared use parking? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____</p>			
<p>vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Estimate annual electricity demand during operation of the proposed action: _____</p> <p>ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____</p> <p>iii. Will the proposed action require a new, or an upgrade to, an existing substation? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>l. Hours of operation. Answer all items which apply.</p> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ 7am-5pm • Saturday: _____ • Sunday: _____ • Holidays: _____ </td> <td style="width: 50%; vertical-align: top;"> <p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ Dawn to Dusk • Saturday: _____ Dawn to Dusk • Sunday: _____ Dawn to Dusk • Holidays: _____ Dawn to Dusk </td> </tr> </table>		<p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ 7am-5pm • Saturday: _____ • Sunday: _____ • Holidays: _____ 	<p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ Dawn to Dusk • Saturday: _____ Dawn to Dusk • Sunday: _____ Dawn to Dusk • Holidays: _____ Dawn to Dusk
<p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ 7am-5pm • Saturday: _____ • Sunday: _____ • Holidays: _____ 	<p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ Dawn to Dusk • Saturday: _____ Dawn to Dusk • Sunday: _____ Dawn to Dusk • Holidays: _____ Dawn to Dusk 		

<p>m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes:</p> <p>i. Provide details including sources, time of day and duration: <u>Heavy equipment usage during hours of construction, M-F 7am-5pm.</u></p>	
<p>ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Describe: <u>Some limited tree removal will be required to achieve appropriate trail width. However, the entire area is forested and will still have substantial natural barriers.</u></p>	
<p>n.. Will the proposed action have outdoor lighting? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes:</p> <p>i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures: <u></u></p>	
<p>ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe: <u></u></p>	
<p>o. Does the proposed action have the potential to produce odors for more than one hour per day? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: <u></u> <u></u></p>	
<p>p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Product(s) to be stored <u></u></p> <p>ii. Volume(s) <u></u> per unit time <u></u> (e.g., month, year)</p> <p>iii. Generally describe proposed storage facilities: <u></u></p>	
<p>q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe proposed treatment(s): <u></u> <u></u> <u></u></p>	
<p>ii. Will the proposed action use Integrated Pest Management Practices? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe any solid waste(s) to be generated during construction or operation of the facility:</p> <ul style="list-style-type: none"> • Construction: <u></u> tons per <u></u> (unit of time) • Operation : <u></u> tons per <u></u> (unit of time) <p>ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:</p> <ul style="list-style-type: none"> • Construction: <u></u> • Operation: <u></u> <p>iii. Proposed disposal methods/facilities for solid waste generated on-site:</p> <ul style="list-style-type: none"> • Construction: <u></u> • Operation: <u></u> 	

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☒ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☒ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility: _____

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☐ Industrial ☒ Commercial ☒ Residential (suburban) ☐ Rural (non-farm)

☒ Forest ☐ Agriculture ☐ Aquatic ☒ Other (specify): Drinking Water Supply; Recreational- Fishing and Hunting

ii. If mix of uses, generally describe:

Open space/ forested area with linear railroad corridor adjoining a NYC DEP reservoir and running parallel to State Route 28

b. Land uses and covertypes on the project site.

Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0	0	0
• Forested	37	37	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	0	0
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	2	2	0
• Wetlands (freshwater or tidal)	1	0.5+	<0.5
• Non-vegetated (bare rock, earth or fill)	0	0	0
• Other Describe: <u>Rail Corridor ballast area</u>	16	16	0

<p>c. Is the project site presently used by members of the community for public recreation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>i. If Yes: explain: <u>Hunting and Fishing - Requires NYCDEP Access Permit</u></p>	
<p>d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes,</p> <p>i. Identify Facilities:</p> <p><u>DD's Daycare- 36 Bonnie Brae Lane, Shokan</u></p>	
<p>e. Does the project site contain an existing dam? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Dimensions of the dam and impoundment:</p> <ul style="list-style-type: none"> • Dam height: _____ feet • Dam length: _____ feet • Surface area: _____ acres • Volume impounded: _____ gallons OR acre-feet <p>ii. Dam's existing hazard classification: _____</p> <p>iii. Provide date and summarize results of last inspection: _____</p>	
<p>f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Has the facility been formally closed? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>• If yes, cite sources/documentation: _____</p> <p>ii. Describe the location of the project site relative to the boundaries of the solid waste management facility: _____</p> <p>iii. Describe any development constraints due to the prior solid waste activities: _____</p>	
<p>g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:</p> <p><u>Note: Former railroad corridor. There is potential for coal ash and slag and uncharacterized fill on site. Testing will be completed to determine the extent, if any, is on site. It is not expected to a hazard. Existing railroad ties will removed from the corridor and disposed of properly</u></p>	
<p>h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Yes – Spills Incidents database <input type="checkbox"/> Yes – Environmental Site Remediation database <input type="checkbox"/> Neither database </div> <div> Provide DEC ID number(s): <u>Multiple, Hazardous Waste Report TBD</u> Provide DEC ID number(s): _____ </div> </div> <p>ii. If site has been subject of RCRA corrective activities, describe control measures: _____</p> <p>iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes, provide DEC ID number(s): _____</p> <p>iv. If yes to (i), (ii) or (iii) above, describe current status of site(s): _____</p>	

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☒ No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ 6.5 feet

b. Are there bedrock outcroppings on the project site? ☒ Yes ☐ No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ 10 %

c. Predominant soil type(s) present on project site:

Oquaga-Arnot-Rock outcrop	29 %
Tunkhannock gravelly loam	17 %
Lackawanna and Swartswood	6 %

d. What is the average depth to the water table on the project site? Average: _____ 6.5 feet

e. Drainage status of project site soils: ☒ Well Drained: _____ 82 % of site
☒ Moderately Well Drained: _____ 10.4 % of site
☒ Poorly Drained _____ 7.6 % of site

f. Approximate proportion of proposed action site with slopes: ☒ 0-10%: _____ 30 % of site
☒ 10-15%: _____ 40 % of site
☒ 15% or greater: _____ 30 % of site

Note: Trail Gradient <= 5 %

g. Are there any unique geologic features on the project site? ☐ Yes ☒ No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☒ Yes ☐ No

ii. Do any wetlands or other waterbodies adjoin the project site? ☒ Yes ☐ No

If Yes to either i or ii, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☒ Yes ☐ No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name 862: 555, 549, 551, 543, 523 Classification A(TS), A(T), AA(T), C(TS)
- Lakes or Ponds: Name _____ Classification _____
- Wetlands: Name Federal and State Approximate Size 100+
- Wetland No. (if regulated by DEC) AS-19, AS-20

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☒ Yes ☐ No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____
Ashokan Reservoir, Esopus Creek - Metals (silt/sediment),

i. Is the project site in a designated Floodway? ☐ Yes ☒ No

j. Is the project site in the 100 year Floodplain? ☒ Yes ☐ No

k. Is the project site in the 500 year Floodplain? ☒ Yes ☐ No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☒ Yes ☐ No

If Yes:

i. Name of aquifer: Principal Aquifer

<p>m. Identify the predominant wildlife species that occupy or use the project site:</p> <table style="width: 100%; border: none;"> <tr> <td style="border-bottom: 1px solid black; width: 33%;">white tailed deer</td> <td style="border-bottom: 1px solid black; width: 33%;">turkey</td> <td style="border-bottom: 1px solid black; width: 33%;">black bear</td> </tr> <tr> <td style="border-bottom: 1px solid black;">eastern chipmunk</td> <td style="border-bottom: 1px solid black;">eastern gray squirrel</td> <td style="border-bottom: 1px solid black;">coyote</td> </tr> </table>			white tailed deer	turkey	black bear	eastern chipmunk	eastern gray squirrel	coyote
white tailed deer	turkey	black bear						
eastern chipmunk	eastern gray squirrel	coyote						
<p>n. Does the project site contain a designated significant natural community? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe the habitat/community (composition, function, and basis for designation): _____</p> <p style="margin-left: 20px;">Vernal pool _____</p> <p>ii. Source(s) of description or evaluation: <u>Site Investigations, NYC DEP</u></p> <p>iii. Extent of community/habitat:</p> <ul style="list-style-type: none"> • Currently: _____ .75 acres • Following completion of project as proposed: _____ .75 acres • Gain or loss (indicate + or -): _____ 0 acres 								
<p>o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="margin-top: 10px;">Indiana bat (endangered), Northern long-eared bat (threatened), bog turtle (threatened), bald eagle (NYS threatened),</p>								
<p>p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="margin-top: 10px;">Sharp-shinned hawk, osprey, red-shouldered hawk, American bittern, whip-poor-will, common nighthawk</p>								
<p>q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, give a brief description of how the proposed action may affect that use: _____</p> <p style="margin-left: 20px;">Access to designated fishing and hunting areas will be improved and marked with signage to ensure only continued use by special permit.</p>								
<p>E.3. Designated Public Resources On or Near Project Site</p>								
<p>a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes, provide county plus district name/number: _____</p>								
<p>b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>i. If Yes: acreage(s) on project site? _____</p> <p>ii. Source(s) of soil rating(s): _____</p>								
<p>c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature</p> <p>ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____</p> <p>_____</p> <p>_____</p>								
<p>d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. CEA name: _____</p> <p>ii. Basis for designation: _____</p> <p>iii. Designating agency and date: _____</p>								

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes: <ul style="list-style-type: none"> i. Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input type="checkbox"/> Historic Building or District ii. Name: _____ iii. Brief description of attributes on which listing is based: _____ 	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
g. Have additional archaeological or historic site(s) or resources been identified on the project site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes: <ul style="list-style-type: none"> i. Describe possible resource(s): _____ ii. Basis for identification: _____ 	
h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes: <ul style="list-style-type: none"> i. Identify resource: <u>NYS Route 28 Scenic Byway, Ashokan Reservoir</u> ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): <u>Rt. 28 Scenic byway - Ashokan Reservoir overlooks and trail</u> iii. Distance between project and resource: _____ <u><0.5 miles.</u> 	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes: <ul style="list-style-type: none"> i. Identify the name of the river and its designation: _____ ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? <input type="checkbox"/> Yes <input type="checkbox"/> No 	

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name County of Ulster Date August 31, 2016

Signature  Title Deputy Director of Planning/ Project Manager

Establishing Capital Project No. 459 To Provide for Design and Engineering Work for the Ulster County Rail Trail Project along the Ashokan Reservoir ("Ashokan Rail Trail")

Referred to: The Economic Development, Tourism, Housing, Planning and Transit Committee (Chairman Briggs and Legislators Allen, Archer, Bartels, Litts, Maio and Maloney), The Public Works and Capital Projects Committee (Chairman Fabiano and Legislators Archer, Greene, Loughran and Roberts), and The Ways and Means Committee (Chairman Gerentine and Legislators Allen, Belfiglio, Briggs, Gregorius, Maio, Maloney and R. Parete)

Chairman of the Ways and Means Committee, Richard A. Gerentine, and Deputy Chairman Donald Gregorius offer the following:

WHEREAS, this resolution has been submitted by the County Executive on behalf of the Department of Planning; and

WHEREAS, the County of Ulster (hereinafter the "County") is the owner of 38.6 miles of the Ulster & Delaware (hereinafter "U&D") Railroad corridor running from the City of Kingston to Highmount in the Town of Shandaken, including approximately 11.5 miles of easement through lands adjacent to the Ashokan Reservoir owned by the City of New York (hereinafter the "Watershed Property") and managed by the New York City Department of Environmental Protection (hereinafter "NYCDEP"); and

WHEREAS, in December 2013, the Ulster County Executive and the then NYCDEP Commissioner announced an historic Agreement in Principle to facilitate and provide significant funding support for the conversion of 11.5 miles of the U&D corridor along the Watershed Property into a public, multi-use recreational trail (hereinafter the "Ashokan Rail Trail") in order to provide a major economic development boost to Ulster County and Route 28 businesses, expand recreational opportunities for local residents and visitors, improve public health and quality of life, and further develop Ulster County's rail trail network into a world-class tourism destination; and

WHEREAS, the Ashokan Rail Trail will open the northern shore of the Ashokan Reservoir to the public, without permit or fee, for the first time in more than a century and will ensure year-round public access for walking, running, bicycling, cross country skiing, snowshoeing and other non-motorized uses between Basin Road in West Hurley and Boiceville in the Town of Olive; and

WHEREAS, in August 2014, the Ulster County Legislature adopted Resolution No. 275, which established a policy to convert sections of the U&D corridor into rail trail only, including the 11.5 miles along the Watershed Property identified in the Agreement in Principle; and

Resolution No. 480 December 15, 2015

Establishing Capital Project No. 459 To Provide for Design and Engineering Work for the Ulster County Rail Trail Project along the Ashokan Reservoir ("Ashokan Rail Trail")

WHEREAS, in May 2015, the Ulster County Legislature adopted Resolution No. 187 authorizing the County Executive and Chairman of the Ulster County Legislature to execute a final agreement based on the Agreement in Principle with the City of New York to facilitate and provide significant funding and other support for a public rail trail along the Ashokan Reservoir (the "Agreement"); and

WHEREAS, the Agreement was fully executed on June 16, 2015 and included \$2,500,000.00 million in direct grant assistance from NYCDEP for trail planning and construction; and

WHEREAS, on October 1, 2015 the first \$1,000,000.00 in funding was released to the County in accordance with the Agreement; and

WHEREAS, the County is interested in moving forward design and engineering work for the Ashokan Rail Trail using a portion of the NYCDEP funding, which will be transferred into the Ashokan Rail Trail Capital Project for planning purposes only; and

WHEREAS, the proposed project being considered includes the construction of the Ashokan Reservoir Rail Trail and associated access facilities constitutes an action as defined under NYCRR Part 617.4(b)(6) [SEQRA]; and

WHEREAS, the County is desirous of establishing itself as a lead agency and conducting a coordinated review as provided for in NYCRR Part 617.6; now, therefore, be it

RESOLVED, this resolution authorizes expenditures exclusively for design and engineering work necessary to effectuate the design of the Ashokan Rail Trail; and, be it further

RESOLVED, that pursuant to 6 NYCRR Part 617.6(b) (3) of the Regulations pertaining to Article 8 of the Environmental Conservation Law of New York State (SEQRA), the Ulster County Legislature hereby declares its intent to serve as Lead Agency for the above recited project; and, be it further

RESOLVED, that the Ulster County Legislature has determined, after review of the criteria contained in 6 NYCRR Parts 617.4 (b)(6), that the project is a Type I Action; and, be it further

Resolution No. 480 December 15, 2015

Establishing Capital Project No. 459 To Provide for Design and Engineering Work for the Ulster County Rail Trail Project along the Ashokan Reservoir ("Ashokan Rail Trail")

RESOLVED, that the Ulster County Legislature will conduct a coordinated review and circulate its Notice of Intent to serve as Lead Agency, together with the EAF and accompanying documentation to all interested and involved agencies pursuant to 6 NYCRR Part 617.6(b) (2) (i) and 6 NYCRR Part 617.6(b) (3); and, be it further

RESOLVED, that pursuant to 6 NYCRR Part 617.6(b) (3), at the conclusion of an otherwise unchallenged thirty (30) day period following the date of transmittal of the Notice of Intent, the EAF and documentation aforesaid to the interested agencies, the Legislature shall become the Lead Agency under SEQRA for this project; and, be it further

RESOLVED, that Capital Project No. 459 Ashokan Rail Trail is hereby established as follows:

CREATE

Capital Project No. 459	Ashokan Rail Trail	\$1,000,000.00
-------------------------	--------------------	----------------

and, be it further

RESOLVED, that Capital Project No. 459- "Ashokan Rail Trail" is hereby established and that the 2015-2020 Capital Fund Budget is amended as follows:

	<u>INCREASE</u>	<u>AMOUNT</u>
HH 7197-0459-4300-4355 (App #)	Engineering Services	\$550,000.00
HH 7197-0459-3200-2397 (Rev #)	Intergovernmental Charges Capital Projects, Other Gov't (NYC DEP Grant)	\$550,000.00

and move its adoption.

ADOPTED BY THE FOLLOWING VOTE:

AYES: 23 NOES: 0

Resolution No. 480

December 15, 2015

Establishing Capital Project No. 459 To Provide for Design and Engineering Work for the Ulster County Rail Trail Project along the Ashokan Reservoir ("Ashokan Rail Trail")

Passed Committee: Economic Development, Tourism, Housing, Planning, and Transit on December 1, 2015

Passed Committee: Public Works and Capital Projects on December 3, 2015

Passed Committee: Ways and Means on December 15, 2015

FINANCIAL IMPACT:
NONE

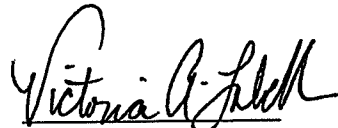
STATE OF NEW YORK

ss:

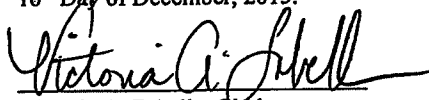
COUNTY OF ULSTER

I, the undersigned Clerk of the Legislature of the County of Ulster, hereby certify that the foregoing resolution is the original resolution adopted by the Ulster County Legislature on the 15th Day of December in the year Two Thousand and Fifteen, and said resolution shall remain on file in the office of said clerk.

IN WITNESS WHEREOF, I have hereunto set my hand and seal of the County of Ulster this 16th Day of December in the year Two Thousand and Fifteen.


Victoria A. Fabella, Clerk
Ulster County Legislature

Submitted to the County Executive this
16th Day of December, 2015.


Victoria A. Fabella, Clerk
Ulster County Legislature

Approved by the County Executive this
22 Day of December, 2015.


Michael P. Hein, County Executive

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project: Ashokan Rail Trail - Easement Only - Segmented Review		
Project Location (describe, and attach a general location map): Towns of Hurley, Olive, and Woodstock Ulster County - See Attached Map		
Brief Description of Proposed Action (include purpose or need): This action is the execution of the Ashokan Trail Easement between Ulster County and New York City as part of the Ashokan Rail Trail (ART). The Easement is being considered as lawful segmentation under SEQRA and is part of a larger 11.5-mile pedestrian and bicycle trail from Basin Road in the Town of Hurley to Route 28A in the Town of Olive, as shown on the enclosed Project area map. The Easement covers the lands associated with this project and consists of approximate 230 acres that follows the boundaries of the existing easement for railroad easement held by the County on these lands. The Easement specifically provides the County with the necessary property rights to construct the ART while maintaining all of the underlying rights associated with the railroad easement. No construction is authorized by the Easement and the County will continue to progress the SEQRA environmental review for the ART itself as a Type I Action.		
Name of Applicant/Sponsor: Ulster County, C/O Mr. Michael Hein, County Executive	Telephone: (845) 340-3800	
	E-Mail: exec@co.ulster.ny.us	
Address: 244 Fair Street PO Box 1800		
City/PO: Kingston	State: NY	Zip Code: 12402
Project Contact (if not same as sponsor; give name and title/role): Mr. Christopher White, Ulster County Planning Dept., Deputy Director/Project Manager	Telephone: (845) 340-3338	
	E-Mail: cwhi@co.ulster.ny.us	
Address: 244 Fair Street PO Box 1800		
City/PO: Kingston	State: NY	Zip Code: 12402
Property Owner (if not same as sponsor): New York City Department of Environmental Protection (County owns railroad easement)	Telephone: (845) 340-7218	
	E-Mail: cLaing@dep.nyc.gov	
Address: 71 Smith Avenue		
City/PO: Kingston	State: NY	Zip Code: 12401

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No or Village Board of Trustees		
b. City, Town or Village <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Planning Board or Commission		
c. City Council, Town or <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Village Zoning Board of Appeals		
d. Other local agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
e. County agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ulster County Legislature (Easement Approval)	
f. Regional agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	NYCDEP (Approval of the Easement)	7/19/2017
g. State agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
h. Federal agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
i. Coastal Resources. i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No iii. Is the project site within a Coastal Erosion Hazard Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐ Yes ☒ No

- If Yes, complete sections C, F and G.
- If No, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☒ Yes ☐ No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☒ Yes ☐ No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☒ Yes ☐ No

If Yes, identify the plan(s):

New York City Watershed Boundary - subject to NYC Watershed Rules and Regulations

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☒ Yes ☐ No

If Yes, identify the plan(s):

Ulster County Open Space Plan

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☒ Yes ☐ No

If Yes, what is the zoning classification(s) including any applicable overlay district?

Conservation Residential and very low density residential

b. Is the use permitted or allowed by a special or conditional use permit? ☒ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☒ No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Onteora Central School District, Kingston City Schools

b. What police or other public protection forces serve the project site?

Olive Police Department, Ulster County Sheriff, NYS Police, NYC DEP Police

c. Which fire protection and emergency medical services serve the project site?

Olive Fire Department, Olive First Aid, Inc., Hurley Fire Department

d. What parks serve the project site?

None

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Legal - Recreational - allow trail use via easement

b. a. Total acreage of the site of the proposed action? 230 acres

b. Total acreage to be physically disturbed? 0 acres

c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 230 acres

**Trail easement
& existing rail
easement**

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☒ No

i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☒ No

If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) _____

ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will proposed action be constructed in multiple phases? ☐ Yes ☒ No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

- Total number of phases anticipated _____

- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year

- Anticipated completion date of final phase _____ month _____ year

- Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

This action - approval of the easement is being considered as a lawful segmentation and only includes 1 phase Project has a whole as three phases - easement approval, demolition, and construction

f. Does the project include new residential uses? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, show numbers of units proposed.				
	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes,	
i. Total number of structures _____ ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length iii. Approximate extent of building space to be heated or cooled: _____ square feet	

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes,	
i. Purpose of the impoundment: _____ ii. If a water impoundment, the principal source of the water: <input type="checkbox"/> Ground water <input type="checkbox"/> Surface water streams <input type="checkbox"/> Other specify: _____ iii. If other than water, identify the type of impounded/contained liquids and their source. _____ iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____ _____	

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) If Yes:	
i. What is the purpose of the excavation or dredging? _____ ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site? • Volume (specify tons or cubic yards): _____ • Over what duration of time? _____ iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____ _____ iv. Will there be onsite dewatering or processing of excavated materials? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe. _____ _____ v. What is the total area to be dredged or excavated? _____ acres vi. What is the maximum area to be worked at any one time? _____ acres vii. What would be the maximum depth of excavation or dredging? _____ feet viii. Will the excavation require blasting? <input type="checkbox"/> Yes <input type="checkbox"/> No ix. Summarize site reclamation goals and plan: _____ _____ _____	

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes:	
i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____ _____	

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will proposed action cause or result in disturbance to bottom sediments? ☐ Yes ☒ No
If Yes, describe: _____

iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☒ No
If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? ☐ Yes ☒ No
If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐ Yes ☐ No
If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No
- Do existing lines serve the project site? ☐ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☐ No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☐ No
If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐ Yes ☒ No
If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☐ Yes ☒ No
If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No

<ul style="list-style-type: none"> • Do existing sewer lines serve the project site? _____ • Will line extension within an existing district be necessary to serve the project? _____ <p>If Yes:</p> <ul style="list-style-type: none"> • Describe extensions or capacity expansions proposed to serve this project: _____ _____ _____ 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
<p>iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? _____</p> <p>If Yes:</p> <ul style="list-style-type: none"> • Applicant/sponsor for new district: _____ • Date application submitted or anticipated: _____ • What is the receiving water for the wastewater discharge? _____ 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<p>v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans): _____ _____ _____</p>		
<p>vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____ _____ _____</p>		
<p>e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? _____</p> <p>If Yes:</p> <p>i. How much impervious surface will the project create in relation to total size of project parcel?</p> <p style="padding-left: 40px;">_____ Square feet or _____ acres (impervious surface)</p> <p style="padding-left: 40px;">_____ Square feet or _____ acres (parcel size)</p> <p>ii. Describe types of new point sources. _____</p> <p>iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)? _____ _____</p> <ul style="list-style-type: none"> • If to surface waters, identify receiving water bodies or wetlands: _____ _____ • Will stormwater runoff flow to adjacent properties? _____ 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
<p>iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? _____</p>		
<p>f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? _____</p> <p>If Yes, identify:</p> <p>i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles) _____</p> <p>ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers) _____</p> <p>iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation) _____</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
<p>g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? _____</p> <p>If Yes:</p> <p>i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) _____</p> <p>ii. In addition to emissions as calculated in the application, the project will generate:</p> <ul style="list-style-type: none"> • _____ Tons/year (short tons) of Carbon Dioxide (CO₂) • _____ Tons/year (short tons) of Nitrous Oxide (N₂O) • _____ Tons/year (short tons) of Perfluorocarbons (PFCs) • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆) • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs) • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs) 		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<p>h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Estimate methane generation in tons/year (metric): _____</p> <p>ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____</p>			
<p>i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____</p>			
<p>j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. When is the peak traffic expected (Check all that apply): <input type="checkbox"/> Morning <input type="checkbox"/> Evening <input type="checkbox"/> Weekend <input type="checkbox"/> Randomly between hours of _____ to _____.</p> <p>ii. For commercial activities only, projected number of semi-trailer truck trips/day: _____</p> <p>iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____</p> <p>iv. Does the proposed action include any shared use parking? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____</p> <p>vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Estimate annual electricity demand during operation of the proposed action: _____</p> <p>ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____</p> <p>iii. Will the proposed action require a new, or an upgrade to, an existing substation? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>			
<p>l. Hours of operation. Answer all items which apply.</p> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ Not Applicable • Saturday: _____ • Sunday: _____ • Holidays: _____ </td> <td style="width: 50%; vertical-align: top;"> <p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ Not Applicable • Saturday: _____ • Sunday: _____ • Holidays: _____ </td> </tr> </table>		<p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ Not Applicable • Saturday: _____ • Sunday: _____ • Holidays: _____ 	<p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ Not Applicable • Saturday: _____ • Sunday: _____ • Holidays: _____
<p>i. During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ Not Applicable • Saturday: _____ • Sunday: _____ • Holidays: _____ 	<p>ii. During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ Not Applicable • Saturday: _____ • Sunday: _____ • Holidays: _____ 		

<p>m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes:</p> <p>i. Provide details including sources, time of day and duration:</p> <p>_____</p> <p>_____</p>	
<p>ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe: _____</p> <p>_____</p>	
<p>n.. Will the proposed action have outdoor lighting? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes:</p> <p>i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:</p> <p>_____</p> <p>_____</p>	
<p>ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe: _____</p> <p>_____</p>	
<p>o. Does the proposed action have the potential to produce odors for more than one hour per day? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____</p> <p>_____</p> <p>_____</p>	
<p>p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Product(s) to be stored _____</p> <p>ii. Volume(s) _____ per unit time _____ (e.g., month, year)</p> <p>iii. Generally describe proposed storage facilities: _____</p> <p>_____</p>	
<p>q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe proposed treatment(s):</p> <p>_____</p> <p>_____</p> <p>_____</p>	
<p>ii. Will the proposed action use Integrated Pest Management Practices? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe any solid waste(s) to be generated during construction or operation of the facility:</p> <ul style="list-style-type: none"> • Construction: _____ tons per _____ (unit of time) • Operation : _____ tons per _____ (unit of time) <p>ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:</p> <ul style="list-style-type: none"> • Construction: _____ • Operation: _____ <p>iii. Proposed disposal methods/facilities for solid waste generated on-site:</p> <ul style="list-style-type: none"> • Construction: _____ • Operation: _____ 	

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☒ No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____
 ii. Anticipated rate of disposal/processing:
 • _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☒ No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

 ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No
 If Yes: provide name and location of facility: _____

 If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.
 i. Check all uses that occur on, adjoining and near the project site.
☐ Urban ☐ Industrial ☒ Commercial ☒ Residential (suburban) ☐ Rural (non-farm)
☒ Forest ☐ Agriculture ☐ Aquatic ☒ Other (specify): Drinking Water Supply; Recreational- Fishing and Hunting
 ii. If mix of uses, generally describe:
Open space/ forested area with linear railroad corridor adjoining a NYC DEP reservoir and running parallel to State Route 28

b. Land uses and covertypes on the project site.

Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0	0	
• Forested	161	161	
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	0	
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	
• Surface water features (lakes, ponds, streams, rivers, etc.)	14	14	
• Wetlands (freshwater or tidal)	18	18	
• Non-vegetated (bare rock, earth or fill)	0	0	
• Other Describe: <u>Rail Corridor ballast area</u> _____	37	37	

Page 10 of 13

v. Is the project site subject to an institutional control limiting property uses? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No													
<ul style="list-style-type: none"> • If yes, DEC site ID number: _____ • Describe the type of institutional control (e.g., deed restriction or easement): _____ • Describe any use limitations: _____ • Describe any engineering controls: _____ • Will the project affect the institutional or engineering controls in place? <input type="checkbox"/> Yes <input type="checkbox"/> No • Explain: _____ _____ _____ 													
E.2. Natural Resources On or Near Project Site													
a. What is the average depth to bedrock on the project site? _____ 6.5 feet													
b. Are there bedrock outcroppings on the project site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ 10 %													
c. Predominant soil type(s) present on project site: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; width: 70%;">Oquaga-Arnot-Rock outcrop</td> <td style="border-bottom: 1px solid black; width: 30%; text-align: right;">29 %</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Tunkhannock gravelly loam</td> <td style="border-bottom: 1px solid black; text-align: right;">17 %</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Lackawanna and Swartswood</td> <td style="border-bottom: 1px solid black; text-align: right;">6 %</td> </tr> </table>		Oquaga-Arnot-Rock outcrop	29 %	Tunkhannock gravelly loam	17 %	Lackawanna and Swartswood	6 %						
Oquaga-Arnot-Rock outcrop	29 %												
Tunkhannock gravelly loam	17 %												
Lackawanna and Swartswood	6 %												
d. What is the average depth to the water table on the project site? Average: _____ 6.5 feet													
e. Drainage status of project site soils: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;"><input checked="" type="checkbox"/> Well Drained:</td> <td style="width: 60%; text-align: right;">82 % of site</td> </tr> <tr> <td><input checked="" type="checkbox"/> Moderately Well Drained:</td> <td style="text-align: right;">10.4 % of site</td> </tr> <tr> <td><input checked="" type="checkbox"/> Poorly Drained</td> <td style="text-align: right;">7.6 % of site</td> </tr> </table>		<input checked="" type="checkbox"/> Well Drained:	82 % of site	<input checked="" type="checkbox"/> Moderately Well Drained:	10.4 % of site	<input checked="" type="checkbox"/> Poorly Drained	7.6 % of site						
<input checked="" type="checkbox"/> Well Drained:	82 % of site												
<input checked="" type="checkbox"/> Moderately Well Drained:	10.4 % of site												
<input checked="" type="checkbox"/> Poorly Drained	7.6 % of site												
f. Approximate proportion of proposed action site with slopes: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;"><input checked="" type="checkbox"/> 0-10%:</td> <td style="width: 60%; text-align: right;">30 % of site</td> </tr> <tr> <td><input checked="" type="checkbox"/> 10-15%:</td> <td style="text-align: right;">40 % of site</td> </tr> <tr> <td><input checked="" type="checkbox"/> 15% or greater:</td> <td style="text-align: right;">30 % of site</td> </tr> </table>		<input checked="" type="checkbox"/> 0-10%:	30 % of site	<input checked="" type="checkbox"/> 10-15%:	40 % of site	<input checked="" type="checkbox"/> 15% or greater:	30 % of site						
<input checked="" type="checkbox"/> 0-10%:	30 % of site												
<input checked="" type="checkbox"/> 10-15%:	40 % of site												
<input checked="" type="checkbox"/> 15% or greater:	30 % of site												
g. Are there any unique geologic features on the project site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, describe: _____ _____													
h. Surface water features. <ul style="list-style-type: none"> i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ii. Do any wetlands or other waterbodies adjoin the project site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i. <ul style="list-style-type: none"> iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No iv. For each identified regulated wetland and waterbody on the project site, provide the following information: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">• Streams:</td> <td style="width: 40%;">Name 862: 555, 549, 551, 543, 523</td> <td style="width: 50%;">Classification A(TS), A(T), AA(T), C(TS) +</td> </tr> <tr> <td>• Lakes or Ponds:</td> <td>Name _____</td> <td>Classification _____</td> </tr> <tr> <td>• Wetlands:</td> <td>Name Federal and State</td> <td>Approximate Size 100+</td> </tr> <tr> <td>• Wetland No. (if regulated by DEC)</td> <td colspan="2">_____</td> </tr> </table> 		• Streams:	Name 862: 555, 549, 551, 543, 523	Classification A(TS), A(T), AA(T), C(TS) +	• Lakes or Ponds:	Name _____	Classification _____	• Wetlands:	Name Federal and State	Approximate Size 100+	• Wetland No. (if regulated by DEC)	_____	
• Streams:	Name 862: 555, 549, 551, 543, 523	Classification A(TS), A(T), AA(T), C(TS) +											
• Lakes or Ponds:	Name _____	Classification _____											
• Wetlands:	Name Federal and State	Approximate Size 100+											
• Wetland No. (if regulated by DEC)	_____												
v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, name of impaired water body/bodies and basis for listing as impaired: _____ Ashokan Reservoir, Esopus Creek - Metals (silt/sediment),													
i. Is the project site in a designated Floodway? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No													
j. Is the project site in the 100 year Floodplain? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													
k. Is the project site in the 500 year Floodplain? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													
l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <ul style="list-style-type: none"> i. Name of aquifer: Principal Aquifer - no known name 													

<p>m. Identify the predominant wildlife species that occupy or use the project site:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; border-bottom: 1px solid black;">white tailed deer</td> <td style="width: 33%; border-bottom: 1px solid black;">turkey</td> <td style="width: 33%; border-bottom: 1px solid black;">black bear</td> </tr> <tr> <td style="border-bottom: 1px solid black;">eastern chipmunk</td> <td style="border-bottom: 1px solid black;">eastern gray squirrel</td> <td style="border-bottom: 1px solid black;">coyote</td> </tr> </table>			white tailed deer	turkey	black bear	eastern chipmunk	eastern gray squirrel	coyote
white tailed deer	turkey	black bear						
eastern chipmunk	eastern gray squirrel	coyote						
<p>n. Does the project site contain a designated significant natural community? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Describe the habitat/community (composition, function, and basis for designation): <u>Vernal pool</u></p> <p style="margin-left: 20px;">ii. Source(s) of description or evaluation: <u>Site Investigations, NYC DEP</u></p> <p style="margin-left: 20px;">iii. Extent of community/habitat:</p> <ul style="list-style-type: none"> • Currently: <u>.75</u> acres • Following completion of project as proposed: <u>.75</u> acres • Gain or loss (indicate + or -): <u>0</u> acres 								
<p>o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="margin-top: 20px;">Indiana bat (endangered), Northern long-eared bat (threatened), bog turtle (threatened), bald eagle (NYS threatened),</p>								
<p>p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="margin-top: 20px;">Sharp-shinned hawk, osprey, red-shouldered hawk, American bittern, whip-poor-will, common nighthawk</p>								
<p>q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, give a brief description of how the proposed action may affect that use: <u>Access to designated fishing and hunting areas will not be impacted by the approval of the easement</u></p>								
<p>E.3. Designated Public Resources On or Near Project Site</p>								
<p>a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes, provide county plus district name/number: _____</p>								
<p>b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p style="margin-left: 20px;">i. If Yes: acreage(s) on project site: _____</p> <p style="margin-left: 20px;">ii. Source(s) of soil rating(s): _____</p>								
<p>c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature</p> <p style="margin-left: 20px;">ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____</p> <p style="margin-left: 20px;">_____</p> <p style="margin-left: 20px;">_____</p>								
<p>d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p style="margin-left: 20px;">i. CEA name: _____</p> <p style="margin-left: 20px;">ii. Basis for designation: _____</p> <p style="margin-left: 20px;">iii. Designating agency and date: _____</p>								

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes:	
i. Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input type="checkbox"/> Historic Building or District	
ii. Name: _____	
iii. Brief description of attributes on which listing is based: _____	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
g. Have additional archaeological or historic site(s) or resources been identified on the project site?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If Yes:	
i. Describe possible resource(s): _____	
ii. Basis for identification: _____	
h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If Yes:	
i. Identify resource: <u>NY State Rt 28 Scenic Byway, Ashokan Reservoir</u>	
ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): <u>NY State Designation Rt. 28 Scenic Byway Ashokan Reservoir overlooks and trail</u>	
iii. Distance between project and resource: _____ <0.5 miles.	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If Yes:	
i. Identify the name of the river and its designation: _____	
ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	
<input type="checkbox"/> Yes <input type="checkbox"/> No	

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name County Of Ulster Date July 25, 2017

Signature Christopher White -Signature on File Title Deputy Director of Planning Project Manager

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer “**Yes**” to a numbered question, please complete all the questions that follow in that section.
- If you answer “**No**” to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box “Moderate to large impact may occur.”
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the “whole action”.
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1) <i>If “Yes”, answer questions a - j. If “No”, move on to Section 2.</i>				<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur		
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	<input type="checkbox"/>	<input type="checkbox"/>		
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	<input type="checkbox"/>	<input type="checkbox"/>		
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	<input type="checkbox"/>	<input type="checkbox"/>		
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	<input type="checkbox"/>	<input type="checkbox"/>		
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	<input type="checkbox"/>	<input type="checkbox"/>		
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	<input type="checkbox"/>	<input type="checkbox"/>		
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	<input type="checkbox"/>	<input type="checkbox"/>		
h. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>		

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)

☒ NO☐ YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____ _____	E2g	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	<input type="checkbox"/>	<input type="checkbox"/>
c. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)

☒ NO☐ YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	<input type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	<input type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	<input type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	<input type="checkbox"/>	<input type="checkbox"/>

I. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
----------------------------------	--	--------------------------	--------------------------

4. Impact on groundwater The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer. (See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t) <i>If “Yes”, answer questions a - h. If “No”, move on to Section 5.</i>			
		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	<input type="checkbox"/>	<input type="checkbox"/>
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	<input type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

5. Impact on Flooding The proposed action may result in development on lands subject to flooding. (See Part 1. E.2) <i>If “Yes”, answer questions a - g. If “No”, move on to Section 6.</i>			
		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in development within a 100 year floodplain.	E2j	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in development within a 500 year floodplain.	E2k	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	<input type="checkbox"/>	<input type="checkbox"/>
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	<input type="checkbox"/>	<input type="checkbox"/>

g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
----------------------------------	--	--------------------------	--------------------------

6. Impacts on Air The proposed action may include a state regulated air emission source. (See Part 1. D.2.f., D.2.h, D.2.g) <i>If "Yes", answer questions a - f. If "No", move on to Section 7.</i>				<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur		
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels:					
i. More than 1000 tons/year of carbon dioxide (CO ₂)	D2g	<input type="checkbox"/>	<input type="checkbox"/>		
ii. More than 3.5 tons/year of nitrous oxide (N ₂ O)	D2g	<input type="checkbox"/>	<input type="checkbox"/>		
iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs)	D2g	<input type="checkbox"/>	<input type="checkbox"/>		
iv. More than .045 tons/year of sulfur hexafluoride (SF ₆)	D2g	<input type="checkbox"/>	<input type="checkbox"/>		
v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions	D2g	<input type="checkbox"/>	<input type="checkbox"/>		
vi. 43 tons/year or more of methane	D2h	<input type="checkbox"/>	<input type="checkbox"/>		
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	<input type="checkbox"/>	<input type="checkbox"/>		
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	<input type="checkbox"/>	<input type="checkbox"/>		
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	<input type="checkbox"/>	<input type="checkbox"/>		
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	<input type="checkbox"/>	<input type="checkbox"/>		
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>		

7. Impact on Plants and Animals The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) <i>If "Yes", answer questions a - j. If "No", move on to Section 8.</i>				<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur		
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	<input type="checkbox"/>	<input type="checkbox"/>		
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	<input type="checkbox"/>	<input type="checkbox"/>		
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	<input type="checkbox"/>	<input type="checkbox"/>		
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	<input type="checkbox"/>	<input type="checkbox"/>		

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____	E1b	<input type="checkbox"/>	<input type="checkbox"/>
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	<input type="checkbox"/>	<input type="checkbox"/>
j. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

8. Impact on Agricultural Resources The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <i>If "Yes", answer questions a - h. If "No", move on to Section 9.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	E1 a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	<input type="checkbox"/>	<input type="checkbox"/>
h. Other impacts: _____		<input type="checkbox"/>	<input type="checkbox"/>

9. Impact on Aesthetic Resources The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.) <i>If "Yes", answer questions a - g. If "No", go to Section 10.</i>			
		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	<input type="checkbox"/>	<input type="checkbox"/>
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile 1/2 -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	<input type="checkbox"/>	<input type="checkbox"/>
g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

10. Impact on Historic and Archeological Resources The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.) <i>If "Yes", answer questions a - e. If "No", go to Section 11.</i>			
		<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on or has been nominated by the NYS Board of Historic Preservation for inclusion on the State or National Register of Historic Places.	E3e	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	<input type="checkbox"/>	<input type="checkbox"/>

d. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>
<p>If any of the above (a-d) are answered "Moderate to large impact may occur", continue with the following questions to help support conclusions in Part 3:</p> <p>e.</p> <p>i. The proposed action may result in the destruction or alteration of all or part of the site or property.</p> <p>ii. The proposed action may result in the alteration of the property's setting or integrity.</p> <p>iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.</p>	<p>E3e, E3g, E3f</p> <p>E3e, E3f, E3g, E1a, E1b</p> <p>E3e, E3f, E3g, E3h, C2, C3</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p>

<p>11. Impact on Open Space and Recreation</p> <p>The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan. (See Part 1. C.2.c, E.1.c., E.2.q.) <i>If "Yes", answer questions a - e. If "No", go to Section 12.</i></p>				<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur		
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	<input type="checkbox"/>	<input type="checkbox"/>		
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	<input type="checkbox"/>	<input type="checkbox"/>		
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	<input type="checkbox"/>	<input type="checkbox"/>		
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	<input type="checkbox"/>	<input type="checkbox"/>		
e. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>		

<p>12. Impact on Critical Environmental Areas</p> <p>The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d) <i>If "Yes", answer questions a - c. If "No", go to Section 13.</i></p>				<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur		
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>		
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	<input type="checkbox"/>	<input type="checkbox"/>		
c. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>		

13. Impact on Transportation

The proposed action may result in a change to existing transportation systems.

☒ NO

☐ YES

(See Part 1. D.2.j)

If "Yes", answer questions a - f. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action will degrade existing transit access.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

14. Impact on Energy

The proposed action may cause an increase in the use of any form of energy.

☒ NO

☐ YES

(See Part 1. D.2.k)

If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	<input type="checkbox"/>	<input type="checkbox"/>
e. Other Impacts: _____ _____			

15. Impact on Noise, Odor, and Light

The proposed action may result in an increase in noise, odors, or outdoor lighting.

☒ NO

☐ YES

(See Part 1. D.2.m., n., and o.)

If "Yes", answer questions a - f. If "No", go to Section 16.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may result in routine odors for more than one hour per day.	D2o	<input type="checkbox"/>	<input type="checkbox"/>

d. The proposed action may result in light shining onto adjoining properties.	D2n	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	<input type="checkbox"/>	<input type="checkbox"/>
f. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.)

☒ NO

☐ YES

If "Yes", answer questions a - m. If "No", go to Section 17.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	<input type="checkbox"/>	<input type="checkbox"/>
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	<input type="checkbox"/>	<input type="checkbox"/>
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	<input type="checkbox"/>	<input type="checkbox"/>
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	<input type="checkbox"/>	<input type="checkbox"/>
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	<input type="checkbox"/>	<input type="checkbox"/>
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	<input type="checkbox"/>	<input type="checkbox"/>
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	<input type="checkbox"/>	<input type="checkbox"/>
m. Other impacts: _____ _____			

17. Consistency with Community Plans

The proposed action is not consistent with adopted land use plans.

(See Part 1. C.1, C.2. and C.3.)

If “Yes”, answer questions a - h. If “No”, go to Section 18.

☒ NO

☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action’s land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, E1b	<input type="checkbox"/>	<input type="checkbox"/>
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	<input type="checkbox"/>	<input type="checkbox"/>
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	<input type="checkbox"/>	<input type="checkbox"/>
h. Other: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

18. Consistency with Community Character

The proposed project is inconsistent with the existing community character.

(See Part 1. C.2, C.3, D.2, E.3)

If “Yes”, answer questions a - g. If “No”, proceed to Part 3.

☒ NO

☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	<input type="checkbox"/>	<input type="checkbox"/>
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	<input type="checkbox"/>	<input type="checkbox"/>
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	<input type="checkbox"/>	<input type="checkbox"/>
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	<input type="checkbox"/>	<input type="checkbox"/>
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	<input type="checkbox"/>	<input type="checkbox"/>
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	<input type="checkbox"/>	<input type="checkbox"/>
g. Other impacts: _____ _____		<input type="checkbox"/>	<input type="checkbox"/>

Project :

Date :

Full Environmental Assessment Form
Part 3 - Evaluation of the Magnitude and Importance of Project Impacts
and
Determination of Significance

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

Reasons Supporting This Determination:

To complete this section:

- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- Attach additional sheets, as needed.

See Attached

Determination of Significance - Type 1 and Unlisted Actions

SEQR Status:

☐ Type 1

☒ Unlisted

Identify portions of EAF completed for this Project: ☒ Part 1

☒ Part 2

☒ Part 3

Upon review of the information recorded on this EAF, as noted, plus this additional support information

and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the
Ulster County Legislature pursuant to Resolution No. 327 of August 15, 2017 as lead agency that:

☒ A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.

☐ B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.d).

☐ C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action: Ashokan Rail Trail Easement

Name of Lead Agency: Ulster County Legislature

Name of Responsible Officer in Lead Agency: Kenneth J. Ronk, Jr.

Title of Responsible Officer: Chairman

Signature of Responsible Officer in Lead Agency:

Date: 8/18/2017

Signature of Preparer (if different from Responsible Officer)

Date: 8/18/2017

For Further Information:

Contact Person: Dennis Doyle

Address: 244 Fair Street Box 1800 Kingston, NY 12402

Telephone Number: 845-340-3340

E-mail: ddoy@co.ulster.ny.us

For Type 1 Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:

Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of)

Other involved agencies (if any)

Applicant (if any)

Environmental Notice Bulletin: <http://www.dec.ny.gov/enb/enb.html>

ULSTER COUNTY LEGISLATURE DETERMINATION
SEQRA LAWFUL SEGEMENTATION AND NEGATIVE DECLARATION

In the Matter of Approving the Execution of the Ashokan Trail
Easement by Ulster County: Ulster County Legislature

The Ulster County Legislature (the "County") is proposing construction of an 11.6 mile pedestrian and bicycle trail on lands owned by the City of New York (the "City") and managed by the New York City Department of Environment Protection ("DEP") in the Towns of Olive, Hurley, and Woodstock ("Project"). The Project will establish a non-motorized recreational trail on the County's Ulster and Delaware Railroad corridor along the northern shore of the Ashokan Reservoir. The Project includes repurposing of the existing railroad bed and ballast, removal of rail ties and track, repair and reconstruction of failed drainage structures and replacement of a bridge structure over the Esopus Creek near Boiceville which was destroyed during Hurricane Irene in 2011.

The County pursuant to Resolution No. 480 of December 15, 2015 declared its intent to act as Lead Agency as provided for in 6NYCRR Part 617.6(b)(2)(i) of the Regulations pertaining to Article 8 of the Environmental Conservation Law of New York State ("SEQRA") and categorized the Action as Type I. The County circulated the necessary notifications on August 31, 2016 and receiving no objections became Lead Agency 30 days after this date.

The County originally sought a land use permit from DEP that would allow it to construct the trail. Subsequent concerns by the County about the need for a more permanent property interest led to the negotiation and development of the Ashokan

Trail Easement (the "Trail Easement"). The Trail Easement is permanent property interest for the benefit of the County that allows construction, maintenance and operation of the Ashokan Rail Trail ("ART") while preserving the County's perpetual easement for railroad purposes ("Railroad Easement") and protects all of the rights associated with the existing Railroad Easement. The Ashokan Trail Easement is attached as Exhibit A. A summary map of the location of the Trail Easement is attached as Exhibit B.

Although the construction of the ART has been classified as a Type I Action under SEQRA, the County, as Lead Agency, has examined the execution of the Trail Easement in accordance with SEQRA and finds under 6 NYCRR 617.4, approval of the Trail Easement is an Unlisted Action. However, the County will examine the potential adverse environmental effects of executing the Trail Easement under procedures for a Type I Action.

In accordance with the above, the County will conduct a lawful segmentation of the SEQRA environmental review for the approval of the Trail Easement pursuant to 6 NYCRR Part 617.3(g(1))

In this manner, the approval of the Trail Easement would be permitted while the phase of the Project, consisting of the construction of the trail itself and other associated repairs and replacements associated with said construction, undergoes continuing SEQRA reviews and permitting.

Legal Address of Lawful Segmentation in the Instant Action

The SEQRA regulations generally disfavor what is called "segmentation," which is defined as "the division of the

environmental review of an action such that various activities or stages are addressed under SEQRA as though they were independent, unrelated activities, needing individual determinations of significance." [6 NYCRR Part 617.2 (ag)].

6 NYCRR Part 617.3(g) provides that actions commonly consist of a set of activities or steps and that the entire set of activities or steps must be considered the action, whether the agency decision-making relates to the action as a whole or to only a part of it.

In making a determination of environmental significance for any Unlisted Action or Type I Action, the Lead Agency must consider the action as the entire set of activities or steps involved [6 NYCRR Part 617.7(b)(1)] and, for the purpose of determining whether such action may cause a significant effect on the environment, the Lead Agency must consider reasonably related long-term, short-term, direct, indirect and cumulative impacts, including other simultaneous or subsequent actions which are:

- (1) included in any long-range plan of which the action under consideration is a part, or
- (2) likely to be undertaken as a result thereof, or
- (3) dependent thereon.

However, segmentation is not prohibited by the law and if a Lead Agency believes that circumstances warrant a segmented review, it may permit the same provided it clearly states in its determination of significance and any subsequent determination of significance the supporting reasons and demonstrates that such review is clearly no less protective of the environment.

There have been numerous cases dealing with the issue of segmentation since SEQRA went into effect and interpreting the above regulations. Most of the reported cases involve whether or not a particular action amounts to segmentation, and not

whether or not segmentation is or would be permissible under the circumstances.

In the controlling case of In the Matter of Concerned Citizens for the Environment v. Zagata, 243 AD2d 20 (3rd Dept. 1998), the Appellate Division for the Third Department permitted the segmentation of a proposed solid waste disposal facility when it reviewed the application to construct a solid waste transfer station separately from the application to construct an incinerator and materials recovery facility that were part of the same project.

The court held that segmented review is permissible where the Lead Agency believes that it is warranted under the circumstances, provided the agency clearly states its reasons for permitting segmentation and demonstrates that such review is no less protective of the environment, and that any related actions be identified and discussed to the fullest extent possible.

In its analysis of the issue of segmentation, the court stated that the reasons for disfavoring segmentation of environmental review are twofold.

The first reason given by the court is the danger that in considering related actions separately, a decision by the agency involving review of an earlier action may be "practically determinative" of a subsequent action. In other words, by approval of an earlier action an administrative board would, in effect, commit the board to a definite course of future conduct so that the board could not, as a practical matter, disapprove any subsequent action involving the combined action.

A common example of improper segmentation involves issuance of a Negative Declaration for the change in the zoning classification of a specific parcel of land for the express purpose of authorizing its subsequent development for an

identified and currently proposed project which may or will cause a significant adverse impact. See Matter of New York Canal Improvement Association v. Town of Kingsbury, 240 AD2d 930 (3rd Dept. 1997).

The second reason given by the court is that when a project that would have a significant adverse effect on the environment is broken up or divided into two or more component parts which, individually, would not have as significant an environmental impact as the entire project. Or, instances where one or more aspects of the project might fall below the threshold requiring any environmental review.

In other words, by not considering the entire project at one time, the environmental review of the project would be lessened, or perhaps eliminated, altogether.

Applying the above two-pronged test to the facts and circumstances of this particular action, the approval of the Trail Easement, the County finds that the issuance of a Negative Declaration does not constitute impermissible segmentation for the following reasons:

1. The Action Is Not Practically Determinative: An approval by the Ulster County Legislature of the Trail Easement does not commit the County to approve any subsequent action associated with the construction of the Ashokan Rail Trail.

This action is capable of standing by itself as a discrete approval and does not impair, compromise or prejudice the exercise of discretion vested in the County of Ulster Legislature to conduct a full environmental review of the Project, nor does the same commit said Legislature to a "definite course of future conduct" thereby forcing the approval of Project construction.

It is important to note that the language in the Trail Easement states:

"The grant of this Trail Easement is specifically conditioned upon the construction of the ART in accordance with the design of the trail approved by the City. Any modifications to the design shall be approved by the City, the same of which shall not be withheld unreasonably."

This language places the Easement subordinate to the approval of the construction of the Trail itself. The County remains free to decide whether or not to proceed with construction subsequent to the necessary environmental scrutiny.

2. The Action Is No Less Protective of the Environment: As to the second prong of the Concerned Citizens v. Zagata test, the identified environmental impacts or effects that are reasonably likely to result from this action are, by themselves, negligible and do not require the preparation of an Environmental Impact Statement ("EIS"). As noted above, the Trail Easement does not commit the County to any future course of action. In addition, approval of the Trail Easement does not authorize physical alteration or construction activities associated with the building of the ART, itself.

The future demolition and construction phases which comprise the Project will require, at a minimum, approval by the County for funding and construction authorization, final design and other approvals by DEP, and approvals from the Town of Hurley, the New York State Department of Environmental Conservation ("DEC"), and the New York State Department of Transportation ("NYSDOT"). These discretionary approvals are also actions under SEQRA and trigger a de novo environmental

review [6 NYCRR Part 617.2(a)(1)]. These activities are being progressed by the County as a Type I Action.

In this regard, the environmental impacts associated with the construction and operation of the ART will continue to be evaluated under a coordinated SEQRA review as a Type 1 Action by the County of Ulster and the other involved and interested agencies as noted above. Parts 1 and 2 of the SEQRA Full Environmental Assessment Form for the Project, as circulated with the request for lead agency, is attached as Exhibit C and describes the Project in its entirety. A list of the involved and interested agencies is provided as Appendix D.

Accordingly, this subsequent environmental review will analyze the proposed Project and appurtenances in light of a completed Detailed Design and Storm Water Pollution Prevention Plan ("SWPPP"), with the County Legislature and other involved agencies retaining extensive discretionary approval authority. As such, the comprehensive environmental review associated therewith is no less protective of the environment.

Conclusion: As a result, where all discretionary approvals from the Lead Agency and the involved agencies remain, it cannot be reasonably posited that the execution of the Ashokan Trail Easement will be "practicably determinative" of the Ashokan Rail Trail Project as a whole. In addition, where the Lead Agency is conducting a coordinated review of the Project as a Type I Action, the approval of the Trail Easement that does not include any physical alteration of lands, considered as a separate action will neither impair nor reduce the effectiveness of subsequent environmental review.

The Ulster County Legislature, having considered the factors associated with a segmented review under SEQRA and the environmental impacts associated with approval of the Ashokan Rail Trail Easement hereby determines that:

1. Approval of the Ashokan Trail Easement may be carried out as a lawful segmented review; and
2. A review of record supports the conclusion that no adverse environmental effects will occur from approval of the Ashokan Trail Easement, and that a Negative Declaration pursuant to 6 NYCRR Part 617.3(g)(1) is applicable and hereby issued; and
3. Such SEQRA segmentation and determination pertaining to the Trail Easement shall be noted and referenced in all future environmental actions and determinations for the Ashokan Rail Trail Project.

Authorizing The Chairman Of The Ulster County Legislature To Execute The Ashokan Trail Easement With The City Of New York

Referred to: The Economic Development, Tourism, Housing, Planning and Transit Committee (Chairman Maloney and Legislators Berky, Delaune, Lapp, Litts, Maio and Rodriguez)

Chairman of the Economic Development, Tourism, Housing, Planning, and Transit Committee, James F. Maloney, and Deputy Chairman Hector Rodriguez offer the following:

WHEREAS, this Resolution has been submitted by the County Executive on behalf of the Department of Planning; and

WHEREAS, the County of Ulster is the owner of 38.6 miles of the Ulster & Delaware Railroad Corridor (“U&D Corridor”) running from the City of Kingston to Highmount in the Town of Shandaken, including approximately 11.6 miles of easement for railroad purposes (“Railroad Easement”) through lands adjacent to the Ashokan Reservoir owned by the City of New York (“Watershed Property”) and managed by the New York City Department of Environmental Protection (“DEP”); and

WHEREAS, in December 2013, the Ulster County Executive and DEP announced an historic Agreement in Principle to facilitate and provide significant funding support for the conversion of the Railroad Easement along the Watershed Property into a public, multi-use recreational trail (“Ashokan Rail Trail”) in order to provide economic development to Ulster County and Route 28 businesses, expand recreational opportunities for local residents and visitors, improve public health and quality of life, and further develop Ulster County’s rail trail network into a world-class tourism destination; and

WHEREAS, the Ashokan Rail Trail along Watershed Property will open the northern shore of the Ashokan Reservoir to the public, without permit or fee, for the first time in more than a century and will ensure year-round public access for walking, running, bicycling, cross country skiing, snowshoeing and other non-motorized uses between Basin Road in West Hurley and Route 28A in Boiceville on a recreational trail that is fully accessible for persons with disabilities and limited mobility; and

WHEREAS, in May 2015, the Ulster County Legislature authorized the County Executive and Chairman of the Legislature to execute an Agreement with the City of New York to accept \$2.5 million in grant fund for and facilitate the creation of the Ashokan Rail Trail (“MOA”); and

Resolution No. 327 August 15, 2017

Authorizing The Chairman Of The Ulster County Legislature To Execute The Ashokan Trail Easement With The City Of New York

WHEREAS, in December 2015, the Ulster County Legislature adopted a compromise rail and trail policy for the U&D Corridor that delineated the segment along the Watershed Lands for conversion into a public recreational trail and also established and funded Capital Project No. 459—the Ashokan Rail Trail—for engineering design; and

WHEREAS, under the MOA, the County would construct and operate the Ashokan Rail Trail under a Land-Use Permit and eventually, a Modified Ashokan Railroad Easement, but based on concerns expressed by the Ulster County Legislature and others about the protection of the County’s perpetual Railroad Easement, the DEP and County have agreed instead to establish a new, separate permanent easement for trail (“Ashokan Trail Easement”), which ensures that the County can construct and operate a trail without modifying, altering, or extinguishing the County’s Railroad Easement or its rights to reactivate railroad uses on the Railroad Easement, which cannot be revoked or cancelled by DEP, as it could with a Land-Use Permit; and

WHEREAS, the County has been awarded approximately \$6.3 million in grant funding for the Ashokan Rail Trail by DEP, the New York State Department of Conservation, and New York State Parks, Recreation and Historic Preservation and has requested an additional \$2.3 million from the Federal Emergency Management Agency for replacement of the Boiceville Bridge; and

WHEREAS, pursuant to Resolution No. 480 of December 15, 2015 Ulster County declared it intent to act as lead agency as provided for in 6NYCRR Part 617.6(b)(2)(i) of the Regulations pertaining to Article 8 of the Environmental Conservation Law of New York State (SEQRA); and

WHEREAS, Ulster County circulated the necessary notifications on August 31, 2016 and receiving no objections became lead agency 30 days after this date; and

WHEREAS, Ulster County has examined the proposed action consisting of the approval of Ashokan Trail Easement in consideration of this action being a lawful segmented review pursuant to the SEQRA Regulations at 6 NYCRR Part 617.3(g)(1); and

WHEREAS, the Ulster County Legislature has reviewed the Environmental Record prepared for this action and the Ashokan Trail Easement as now on file with the Clerk of the Legislature; now, therefore, be it

Resolution No. 327 August 15, 2017

Authorizing The Chairman Of The Ulster County Legislature To Execute The Ashokan Trail Easement With The City Of New York

RESOLVED, that the Ulster County Legislature based on the review of the Environmental Record, the Ashokan Trail Easement itself, and the requirements under 6 NYCRR Part 617 determines that approval of the Ashokan Trail Easement is a discrete action that can be considered separate and apart from any trail construction and that as such a segmented review is warranted and will be no less protective of the environment nor will it commit the Legislature to any future course of action; and, be it further

RESOLVED, that the Ulster County Legislature based on the review of the Environmental Record finds that the Ashokan Trail Easement constitutes an unlisted action and its approval will not have an adverse impact on the environment and hereby authorizes the issuance of a negative declaration as provided in 6NYCRR 617.7; and, be it further

RESOLVED, the Chairman of the Ulster County Legislature is hereby authorized to execute the Ashokan Trail Easement with the City of New York in the form as filed with the Clerk of the Ulster County Legislature; and, be it further

RESOLVED, all notices, requests and/or approvals required by the Ashokan Trail Easement that are sent by, or delivered to the Ulster County Executive and/or the Ulster County Attorney pursuant to Section 21 of the Easement shall be forwarded promptly to the Clerk of the Ulster County Legislature,

and moves its adoption.

ADOPTED BY THE FOLLOWING VOTE:

AYES: 23 NOES: 0

Passed Committee: Economic Development, Tourism, Housing, Planning and Transit with Paragraph 21 of the Deed of Easement amended to include notice to the Legislature on August 1, 2017

FINANCIAL IMPACT:
NONE

Resolution No. 327 August 15, 2017

**Authorizing The Chairman Of The Ulster County Legislature To
Execute The Ashokan Trail Easement With The City Of New York**

Legislator Greene motioned, seconded by Legislator Donaldson, to insert an additional WHEREAS (placed as 6th WHEREAS) and RESOLVED (placed as 3rd RESOLVED) to read as follows:

“WHEREAS, maximizing the public benefits of the Ulster County-owned U&D Railroad Corridor includes the highest and best combination of rail and trail; and

RESOLVED, that the final design of the Ashokan Rail Trail include leaving the existing railroad tracks operable within the U&D Corridor from MP 10 to MP 11.1, and be it further”

MOTION DEFEATED BY THE FOLLOWING VOTE:

AYES: 5 NOES: 18
(AYES: Legislators Donaldson, Greene, J. Parete,
R. Parete, and Wawro)

STATE OF NEW YORK
ss:
COUNTY OF ULSTER

I, the undersigned Clerk of the Legislature of the County of Ulster, hereby certify that the foregoing resolution is the original resolution adopted by the Ulster County Legislature on the 15th Day of August in the year Two Thousand and Seventeen, and said resolution shall remain on file in the office of said clerk.

IN WITNESS WHEREOF, I have hereunto set my hand and seal of the County of Ulster this 17th Day of August in the year Two Thousand and Seventeen.

/s/ Victoria A. Fabella
Victoria A. Fabella, Clerk
Ulster County Legislature

Submitted to the County Executive this
17th Day of August, 2017.

/s/ Victoria A. Fabella
Victoria A. Fabella, Clerk
Ulster County Legislature

Approved by the County Executive this
21st Day of August, 2017.

/s/ Michael P. Hein
Michael P. Hein, County Executive

Exhibit 7: Cultural Resources Review



Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

October 3, 2016

Ms. Corinne Steinmuller
Environmental Scientist II
Barton and Loguidice
10 Airline Drive
Albany, NY 12203

Re: DEC
Ashokan Rail Trail
16PR06122

Dear Ms. Steinmuller:

Thank you for requesting the comments of the Division for Historic Preservation of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the submitted materials in accordance with the New York State Historic Preservation Act of 1980 (section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Division for Historic Preservation and relate only to Historic/Cultural resources. They do not include potential impacts that must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6NYCRR Part 617).

We note that the proposed project is located partially within the National Register eligible Ulster and Delaware Railroad Corridor. The historic section of the railway, extending from Shokan to Phoenicia, is listed under National Register Criterion A for its association with historical development of the towns of Shandaken and Olive from the period 1897-1942. We understand that the proposed project will include construction of a pedestrian and bicycle pathway along the existing rail bed extending approximately 11.5 miles from West Hurley to Olive. The proposed rail trail will affect approximately six miles of the historic railway, and will include removal of the rail and ties, repairs to existing culverts, and construction of multiple trailheads within the twenty foot wide easement.

We are pleased that this adaptive reuse project will retain the rail corridor along with its historic feeling, association, and use as a transportation route. Based on this review, it is the opinion of the SHPO that the proposed project will have No Adverse Impact upon the historic Ulster and Delaware Railroad Corridor provided the following conditions are incorporated into the project:

1. A Preservation Plan is developed for the historic rail corridor. At minimum the Plan will identify all historic structures and engineering features that will be impacted by the project.
 2. Historic interpretation of the railway will be integrated into development of the rail trail. Interpretive materials should include interpretive signage along the rail trail. A qualified professional should be retained to develop the preservation and interpretive plans.
-

3. Materials related to documentation and interpretation of historic features should be submitted to our office for review in the preliminary and pre-final stages.

Any additional measures that would further ensure the preservation and understanding of the historic railway are encouraged. Towards this goal, we suggest the following:

- Small sections of track (roughly 50') may be retained at the beginning and end of the proposed rail trail. One or both ends of this could display the existing heavy gauge rails along with a sample of the previous iteration of light rail as part of an interpretive exhibit.
- Additional historic features including buildings, structures, and engineering features that are identified along the eligible route will be protected and interpreted in accordance with the Preservation Plan.

Consultation with our office should continue as the preservation and interpretation measures suggested above are developed. Plans, specifications, and other documentation requested in this letter should be provided via our Cultural Resource Information System (CRIS) at www.nysparks.com/shpo/online-tools/. Once on the CRIS site, you can log in as a guest and choose "submit" at the very top menu. Next choose "submit new information for an existing project". You will need this project number and your e-mail address.

If you have any questions, I can be reached at (518) 268-2164.

Sincerely,



Weston Davey
Historic Site Restoration Coordinator
weston.davey@parks.ny.gov

via e-mail only

CC: Scott Ballard (DEC)
Charles Laing (NYCDEP)
Christopher White (Ulster County)

Exhibit 8: Threatened and Endangered Species Assessment



Barton & Loguidice, D.P.C.

Memo To: Project File

Date: September 22, 2017

From: Thomas Baird, P.E. and
Corinne I. Steinmuller
Environmental Scientist II

Project No.: 369.007.001

Subject: Threatened and Endangered Species Habitat Assessment
Ashokan Rail Trail

Project Area and Description

Barton & Loguidice, D.P.C. (B&L), has been retained by Ulster County to provide preliminary and final design services for the proposed Ashokan recreational trail located along the County-owned 11.5 mile abandoned railroad corridor on the northern shore of the Ashokan Reservoir spanning from Milepost K10 (Basin Road in West Hurley) to Milepost K21.5 (Route 28A overpass in Boiceville).

The project includes repurposing of the existing ballast, removal of rail, rail hardware, and deteriorated creosote rail ties, construction of two pedestrian bridges, and maintenance to existing culvert structures. The location of the project area is shown on the enclosed Figures 1 and 2, aerial and topographic mapping respectively. The project corridor can also be found on the USGS 7 ½-minute Kingston West, Ashokan, West Shokan, Bearsville, and Phoenicia quadrangles between 42° 0'20.87"N, 74°16'16.63"W and 41°59'5.60"N, 74° 5'13.93"W (NAD 83).

Areas adjacent to the project corridor consist of residential and commercial property to the north associated with NYS Route 28. To the south of the corridor, the Ashokan Reservoir serves as a drinking water source for New York City and is recreationally limited to fishing and non-motorized boat usage. The railway itself travels through mature mid-successional forest and will cross the Esopus Creek on a new bridge on the western end of the proposed trail.

Federally Protected Species

The U.S. Fish and Wildlife Service (USFWS) New York Field Office's website was reviewed to determine whether any federally listed endangered, threatened, or candidate species are known to inhabit the proposed project area. The USFWS' Information for Planning and Consultation (IPaC) System reported three federally protected species that could potentially inhabit the project corridor: the Indiana bat (*Myotis sodalis* – Endangered), the northern long-eared bat (*Myotis septentrionalis* – Threatened), and the bog turtle (*Clemmys muhlenbergii* – Threatened). A printout of the IPaC results is included as Attachment A.



Critical Habitat

A review of designated critical habitat areas within New York State was completed. No such areas exist within or adjacent to the project area.

New York State Protected Species

The Natural Heritage Program (NHP) was contacted for information regarding the reported presence of any endangered species, threatened species, species of special concern, or significant natural communities within or adjacent to the project corridor. A response was received from the NHP on July 26, 2016, which indicated three records of rare or state-listed animals or plants and significant natural communities at the site or in its immediate vicinity. The bald eagle (*Haliaeetus leucocephalus*- Threatened) was identified to have nested within 400 feet of the project corridor. An Indiana bat maternity colony was identified within 250 feet of the project corridor. Additionally, a high quality occurrence of an uncommon community type, a bluestone vernal pool, was identified .5 miles east of the corridor. The NHP's response letter is included for review as Attachment B.

Availability of Suitable Habitat

A habitat assessment of the project corridor was completed by staff of B&L's Ecology Group on June 28-29 and July 7, 2016. Proposed access road sites were assessed on May 17, 2017. The main objective of this habitat assessment was to identify the presence of any state or federally protected species within or adjacent to the project corridor, or the presence of suitable habitat for any of the reported species.

Northern long-eared and Indiana bats

These bat species select roosting trees based on the tree's location, position within the landscape, bark characteristics, and ability to provide cavities or crevices. Suitable roosting and foraging habitat for the bats includes mixed age stands of trees greater than 3" diameter at breast height (DBH), with foraging habitat containing areas of open water. These habitat requirements were observed within and adjacent to the proposed project corridor. In accordance with the 2016 Range-wide Indiana Bat Summer Survey Guidelines (this document applies to both Indiana bat and northern long-eared bats), most trees greater than 3" DBH are considered potential habitat for the northern long-eared bats, and greater than 4" DBH for the Indiana bat. The dominant tree species observed within the project corridor include: red maple (*Acer rubrum*), striped maple (*Acer pensylvanicum*), shagbark hickory (*Carya ovata*), silver maple (*Acer saccharinum*), northern red oak (*Quercus rubra*), eastern white pine (*Pinus strobus*), and American beech (*Fagus grandifolia*). Approximately 9.2 acres of woody vegetation, including shrubs <3" intermixed with larger DBH trees, are proposed for clearing. In accordance with the aforementioned USFWS resources, trees greater than 3" DBH requiring removal are to be cut between October 1st and March 31st during the conservation cutting window timelines. Project photographs showing the characteristics of the Ashokan Rail Trail project corridor are included as Attachment C.



Bald Eagle Review

The bald eagle was removed from the federal Endangered Species list in 2007, but is still afforded federal protection under the Bald and Golden Eagle Protection Act (BGEPA) and state protection under the Environmental Conservation Law. Accordingly, the project areas were assessed to determine whether potential impacts to this species may occur. During coordination with the NHP, breeding bald eagles were reported within 400 feet of the project corridor. A review of the 2000-2005 New York State Breeding Bird Atlas Survey (BBA) was also completed. Historical sightings of bald eagles were reported for the project corridor. A pair holding territory were reported for block 5664B, a singing male present in block 5664A, and nest with young in 5564B. Results of this record review are included as Attachment D. See Discussion and Effect Determination for further information.

Breeding Bird Atlas

During the review of Survey Blocks 5764A, 5664B, 5665D, 5664A, and 5564B of the 2000-2005 BBA, one NYS Threatened species and six NYS Species of Special Concern were identified as being observed near the project corridor. Table 1, below, lists bird species identified by the BBA Survey Blocks mentioned above to potentially inhabit the project corridor. Results of the Breeding Bird Atlas query are included as Attachment D.

NYSDEC Nature Explorer

Review of the NYSDEC Nature Explorer query resulted in restricted species. It is presumed these species are those reported by the NYNHP. Results of the Nature Explorer query are included as Attachment E.



Table 1: 2000-2005 New York State Breeding Bird Atlas Results- Ashokan Rail Trail

Species Name	Survey Block	Behavior Code*	NYS Legal Status	Suitable Habitat	Suitable Habitat Within proposed areas of disturbance?
Osprey (<i>Pandion haliaetus</i>)	5764A, 5664B	X1	Special Concern	Fish dependent; located near Adirondack lakes, rivers, and wetlands. Nest at the top of dead trees or artificial nesting platforms. While these characteristics are abundant surrounding these project areas, only limited impacts are expected to these habitats due to noise during construction.	Yes
Bald eagle (<i>Haliaeetus leucocephalus</i>)	5664B, 5664A, 5564B	T2, S2, NY	Threatened	Bald eagles require large, undisturbed open-water areas such as rivers or lakes. Nests are typically built along the edge of these large waterbodies, in conifer or deciduous trees with large branches and open crowns. Observed within 400' of proposed disturbed area.	Yes
Red-shouldered hawk (<i>Buteo lineatus</i>)	5764A, 5664B, 5665D, 5564B	T2, D2, FY, X1	Special Concern	Forest birds that prefer an open sub-canopy for hunting. Can be found in suburban areas with mixed forest and housing.	Yes
American bittern (<i>Botaurus lentiginosus</i>)	5664B	P2	Special Concern	Shallow, freshwater marshes. Tend to stay hidden among dense vegetation. Freshwater wetland / marshes avoided by re-alignment of trail	No
Sharp-shinned hawk (<i>Accipiter striatus</i>)	5664B, 5564B	T2, X1	Special Concern	Birds of the forest and forest edge and are not found in areas where trees are scarce, except during migration. During the breeding season this hawk can be found in dense protected, forested stands which often contain conifers.	Yes
Whip-poor-will (<i>Caprimulgus vociferos</i>)	5664B, 5664A	D2, S2	Special Concern	Forests with open understory. Found in both deciduous and deciduous pine mix. Nest on forest floor and are strictly nocturnal.	No
Common nighthawk (<i>Chordeiles minor</i>)	5664B	X1	Special Concern	Nest on bare soil and/or rock in forest clearings, but have also been known to nest on gravel rooftops.	No
* X1= Species observed in possible nesting habitat, but no other indication of breeding noted; singing male(s) present (or breeding calls heard) in breeding season. T2= Pair apparently holding territory. In addition to territorial singing, chasing of other individuals of same species often marks a territory. S2= Singing male present (or breeding calls heard). NY= Nest with young. FY= Adults with food for young. D2= Courtship and display, agitated behavior or anxiety calls suggesting probable presence of nearby nest or young.					



Discussion and Effect Determinations

Based on the site observations documented during the habitat assessment for the proposed Ashokan Rail Trail, potential effects to suitable habitats for the state or federal protected species listed for the project corridor are anticipated as discussed below.

Indiana and northern long-eared bats

Suitable bat roosting habitat was identified adjacent to the project corridor. Tree removal will be required in certain overgrown sections of trail, to remove dead and stressed Ash trees, and several areas where trees inhibit drainage or pose a threat to trail users. Tree removal required as part of this project will be completed during the Time of Year Conservation Cutting Window: October 1st to March 31st. To assist with USFWS' coordination, Phase 1 Summer Habitat Assessment forms are included in Attachment F. By adhering to the Conservation Cutting Window timelines as a protective measure, the proposed project is recommended to have a determination of May Affect, Not Likely to Adversely Affect the Indiana or northern long-eared bats. Additional Best Management Practices (BMPs) will be utilized during the duration of the project to limit impacts to freshwater resources adjacent to the project areas.

Bog turtle

The bog turtle, the smallest of the emydid turtles, spends much of the time buried in the mud and therefore has a reputation for being secretive. While they prefer fens, highly acidic wetlands and areas of soft, deep mud are considered suitable habitat. Several wetland complexes are adjacent to, but not within, the proposed areas of disturbance for the project. Two wetland complexes will be directly impacted as a result of the project. Field delineated Wetlands K and L, identified as correspondent to NYSDEC Mapped wetland AS-20, were emergent in nature but did not contain the deep mucky soils required by this species or microtopographic relief for basking. Additionally, a large patch of common reed (*Phragmites australis*) was noted as dominant which due to plant density prohibits basking. The other field delineated wetland to be impacted, identified as Wetland O, was also emergent but shaded over by the upland tree canopy, lacking the necessary sunlight and microtopographic relief for basking. Additionally, the soils were restricted at 12 inches with the presence of ballast. No impacts are expected to other wetlands delineated within the corridor. Therefore, a determination of No Effect is recommended for this threatened species.

Bald Eagle

Bald eagles prefer habitat along large bodies of water and shoreline area. The project corridor is located within close proximity to the Ashokan Reservoir. Additionally, a confirmed nest with young was reported by the BBA as well as the New York City Department of Environmental Protection and the NYNHP. It is understood that impacts may occur to this species as a result of construction noises during the nesting season. Therefore, a determination of May Affect, Not Likely to Adversely Affect is recommended for this threatened species. To avoid impact and



necessity for a BGEPA permit, it is recommended that construction that will occur within sight or 660 feet of a nest occur during the non-breeding season, from mid-September to December.

Breeding Bird Atlas Species

As described in Table 1, suitable habitat was identified for all species identified by the BBA within the corridor except for the whip poor will and common nighthawk. Both species rely on an open understory and/or clearings for nesting habitat. The corridor was largely grown up with a shrubby understory and a determination of No Effect is recommended for these species due to lack of suitable habitat.

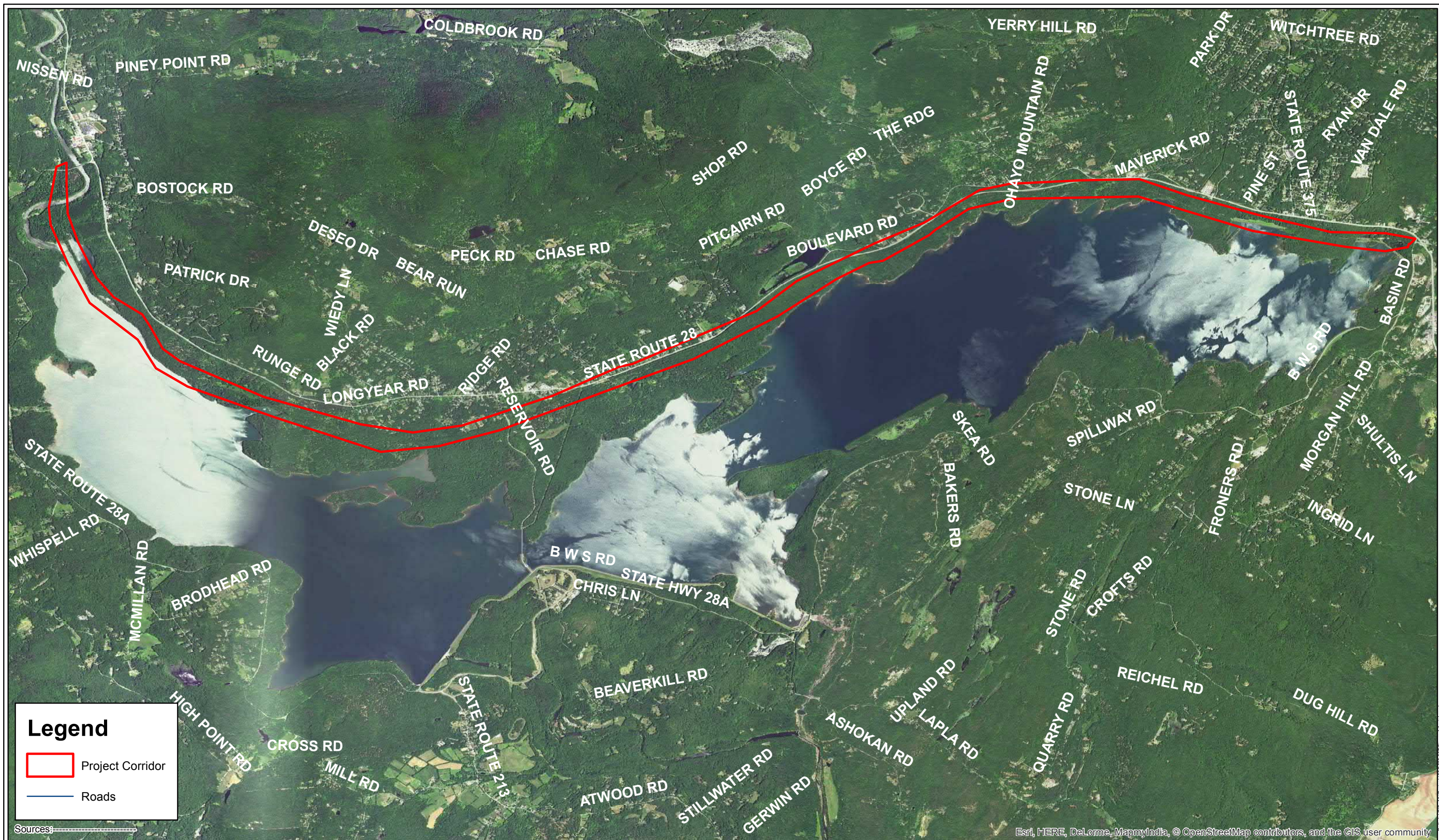
The remaining species may be impacted by construction noise and disturbance. However, this will be temporary in nature and will not affect the habitat quality long term. A May Affect, Not Likely to Adversely Affect determination is recommended for these species.

In addition, no observations of other protected species, unique plant assemblages, or significant natural communities were noted within or adjacent to the project limits. A Species Conclusion Table is included as Attachment G to summarize the results and determinations of this assessment.

CIS/
Attachments

Figure 1

Aerial Project Corridor Map



Legend

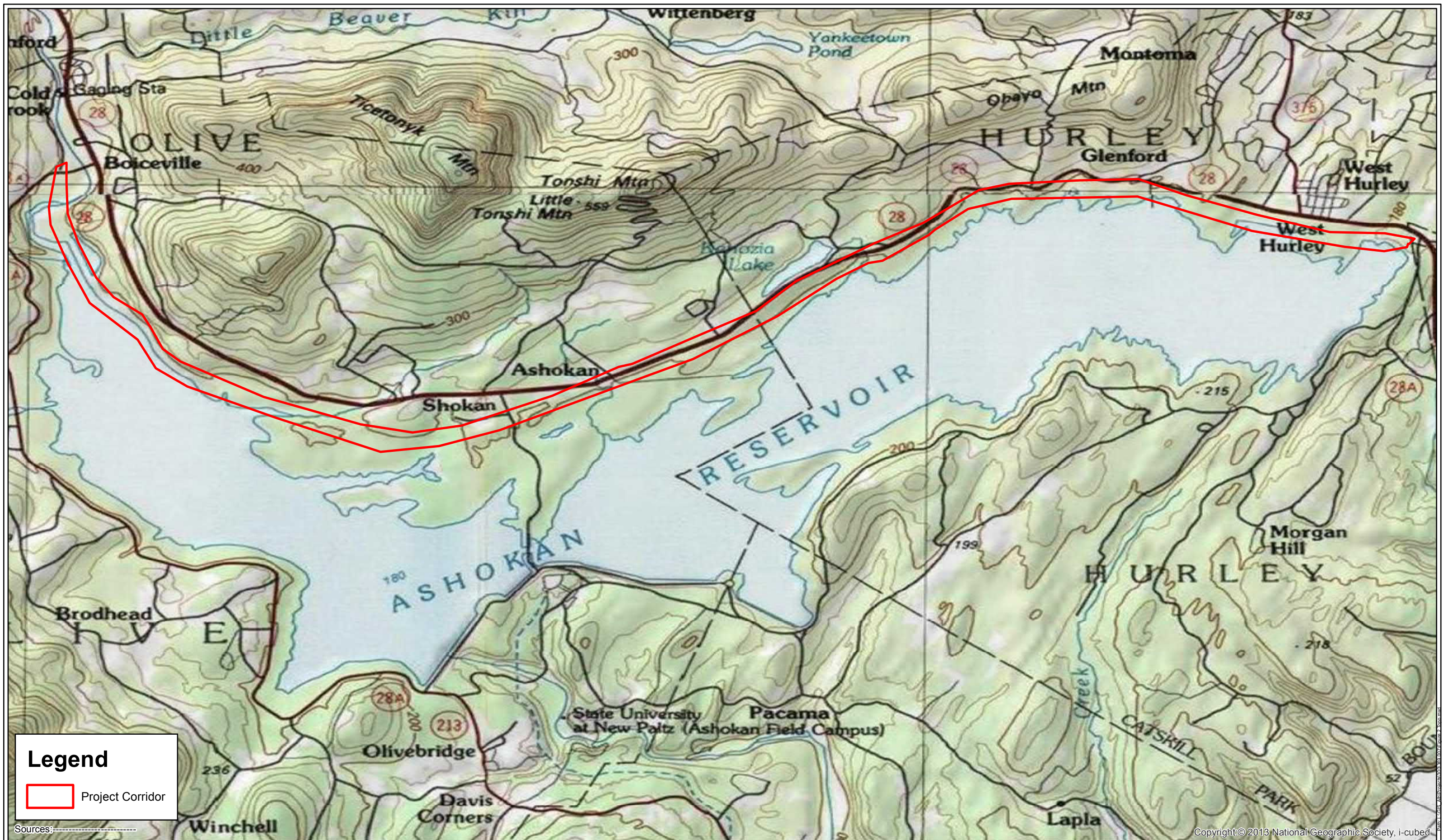
Project Corridor

Roads

Sources:

Figure 2

Topographic Project Corridor Map



Legend

Project Corridor

Sources:



1 inch = 4,250 feet

Copyright © 2013 National Geographic Society, i-cubed

Attachment A

U.S. Fish and Wildlife Service Information for Planning and Consultation (IPaC) System Results



United States Department of the Interior

FISH AND WILDLIFE SERVICE

New York Ecological Services Field Office

3817 Luker Road

Cortland, NY 13045-9349

Phone: (607) 753-9334 Fax: (607) 753-9699

<http://www.fws.gov/northeast/nyfo/es/section7.htm>



In Reply Refer To:

April 25, 2017

Consultation Code: 05E1NY00-2016-SLI-1925

Event Code: 05E1NY00-2017-E-05302

Project Name: Ashokan Rail Trail

Subject: Updated list of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 et seq.). This list can also be used to determine whether listed species may be present for projects without federal agency involvement. New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list.

Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC site at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list. If listed, proposed, or candidate species were identified as potentially occurring in the project area, coordination with our office is encouraged. Information on the steps involved with assessing potential impacts from projects can be found at: <http://www.fws.gov/northeast/nyfo/es/section7.htm>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan (

http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the Services wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the ESA. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New York Ecological Services Field Office
3817 Luker Road
Cortland, NY 13045-9349
(607) 753-9334

Project Summary

Consultation Code: 05E1NY00-2016-SLI-1925

Event Code: 05E1NY00-2017-E-05302

Project Name: Ashokan Rail Trail

Project Type: TRANSPORTATION

Project Description: Barton & Loguidice, D.P.C. (B&L) has been retained by Ulster County for engineering design services for the proposed Ashokan Rail Trail. The proposed action includes the creation of an 11.5 mile recreational trail corridor on a former rail line north of the Ashokan Reservoir. The project includes repurposing the existing ballast, removal of rail ties, creation of trailheads, and maintenance to existing culvert structures.

Project Location:

Approximate location of the project can be viewed in Google Maps:

<https://www.google.com/maps/place/41.983830714078586N74.26007196592603W>



Counties: Ulster, NY

Endangered Species Act Species

There is a total of 3 threatened, endangered, or candidate species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area. Please contact the designated FWS office if you have questions.

Mammals

NAME	STATUS
Indiana Bat (<i>Myotis sodalis</i>) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat (<i>Myotis septentrionalis</i>) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Reptiles

NAME	STATUS
Bog Turtle (<i>Clemmys muhlenbergii</i>) Population: Wherever found, except GA, NC, SC, TN, VA No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6962	Threatened

Critical habitats

There are no critical habitats within your project area.

Attachment B

Natural Heritage Program (NHP) Response

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program
625 Broadway, 5th Floor, Albany, New York 12233-4757
Phone: (518) 402-8935 • **Fax:** (518) 402-8925
Website: www.dec.ny.gov



July 26, 2016

Corinne I. Steinmuller
Barton & Loguidice, D.P.C.
10 Airline Drive, Suite 200
Albany, NY 12205

Re: Ashokan Rail Trail (File: 369.007.001)
Town/City: Hurley, Olive. County: Ulster.

Dear Corinne Steinmuller:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

Enclosed is a report of rare or state-listed animals and plants, and significant natural communities that our database indicates occur, or may occur, on your site or in the immediate vicinity of your site.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our database. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

Our database is continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, as listed at www.dec.ny.gov/about/39381.html.

Sincerely,

A handwritten signature in black ink that reads "Andrea Chaloux".

Andrea Chaloux
Environmental Review Specialist
New York Natural Heritage Program



**The following state-listed animals have been documented
at your project site, or in its vicinity.**

The following list includes animals that are listed by NYS as Endangered, Threatened, or Special Concern; and/or that are federally listed or are candidates for federal listing.

For information about any permit considerations for your project, please contact the Permits staff at the NYSDEC Region 3 Office at dep.r3@dec.ny.gov, (845) 256-3054. For information about potential impacts of your project on these species, and how to avoid, minimize, or mitigate any impacts, contact the Region 3 Wildlife staff at Wildlife.R3@dec.ny.gov, (845) 256-3098.

The following species have been documented at your project site, or within 1 mile of the project site. Individual animals may travel 1 mile from documented locations.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING
-------------	-----------------	------------------	-----------------

Birds

Bald Eagle	<i>Haliaeetus leucocephalus</i>	Threatened	1715, 14038, 10989
<i>Breeding -- Breeding Bald Eagles are using an area through which the project site is proposed, and several Bald Eagle nests have been documented near the proposed project site, including one nest within 400 feet of the proposed project site.</i>			

The following species have been documented within 250 feet of the project site. Individual animals may travel 2.5 miles from documented locations.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	FEDERAL LISTING
-------------	-----------------	------------------	-----------------

Mammals

Indiana Bat <i>Maternity colony</i>	<i>Myotis sodalis</i>	Endangered	Endangered 11652
---	-----------------------	------------	---------------------

This report only includes records from the NY Natural Heritage database. For most sites, comprehensive field surveys have not been conducted, and we cannot provide a definitive statement as to the presence or absence of all rare or state-listed species. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

If any rare plants or animals are documented during site visits, we request that information on the observations be provided to the New York Natural Heritage Program so that we may update our database.

Information about many of the listed animals in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org, and from NYSDEC at www.dec.ny.gov/animals/7494.html.



**The following rare plants, rare animals, and significant natural communities
have been documented in the vicinity of your project site.**

We recommend that potential onsite and offsite impacts of the proposed project on these species or communities be addressed as part of any environmental assessment or review conducted as part of the planning, permitting and approval process, such as reviews conducted under SEQR. Field surveys of the project site may be necessary to determine the status of a species at the site, particularly for sites that are currently undeveloped and may still contain suitable habitat. Final requirements of the project to avoid, minimize, or mitigate potential impacts are determined by the lead permitting agency or the government body approving the project.

The following significant natural communities are considered significant from a statewide perspective by the NY Natural Heritage Program. They are either occurrences of a community type that is rare in the state, or a high-quality example of a more common community type. By meeting specific, documented criteria, the NY Natural Heritage Program considers these community occurrences to have high ecological and conservation value.

COMMON NAME	SCIENTIFIC NAME	NY STATE LISTING	HERITAGE CONSERVATION STATUS
-------------	-----------------	------------------	------------------------------

Wetland/Aquatic Communities

Vernal Pool

High-quality Occurrence of Uncommon Community Type

Bluestone, 0.5 mi east of the project site: This is a moderate-size vernal pool complex in good condition within a large natural landscape in very good condition.

13052

This report only includes records from the NY Natural Heritage database. For most sites, comprehensive field surveys have not been conducted, and we cannot provide a definitive statement as to the presence or absence of all rare or state-listed species. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.

If any rare plants or animals are documented during site visits, we request that information on the observations be provided to the New York Natural Heritage Program so that we may update our database.

Information about many of the rare animals and plants in New York, including habitat, biology, identification, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org, from NatureServe Explorer at www.natureserve.org/explorer, and from USDA's Plants Database at <http://plants.usda.gov/index.html> (for plants).

Information about many of the natural community types in New York, including identification, dominant and characteristic vegetation, distribution, conservation, and management, is available online in Natural Heritage's Conservation Guides at www.guides.nynhp.org. For descriptions of all community types, go to www.dec.ny.gov/animals/97703.html for Ecological Communities of New York State.

Attachment C

Project Corridor Photographs



Photo 1. Typical forested section adjacent to corridor.



Photo 2. Corridor looking west.



Photo 3. Corridor looking south.



Photo 4. Ashokan Reservoir, looking south.



Photo 5. Bank of Reservoir immediately south of corridor.



Photo 6. Corridor looking north to causeway.



Photo 7. Various tracks in mud at causeway; toe of slope from corridor.



Photo 8. View downslope looking north of corridor.



Photo 9. View looking west at proposed Espopus crossing. "Boiceville Trestle" destroyed by Tropical Storms Irene and Lee.



Photo 10. Wetland resource north of corridor, just east of Espopus crossing. Outside of ROW/proposed work.



Photo 11. Looking southeast from corridor at Reservoir.



Photo 12. Wetland K/L (NYSDEC AS-20), to be impacted.



Photo 13. Wetland K/L to be impacted. Corridor continues straight through (see people). Note large Phragmites patch on right hand side.



Photo 14. Wetland O, to be impacted. Note heavy canopy.



Photo 15. Corridor on western side of Espopus, looking east.



Photo 16. Patch of knotweed on western bank of Esopus at crossing.



Photo 17. Existing access road, to receive a layer of stone dust.



Photo 18. Existing access road, to receive a layer of stone dust.



Photo 19. Potential access site, looking toward NYS Route 28.



Photo 20. Potential access site, looking toward rail.



Photo 21. Former access road to be improved.



Photo 22. Former access road to be improved.



Photo 23. Potential business access site (Hotel Dylan).



Photo 24. Potential business access site (Hotel Dylan).



Photo 25. Potential business access site (Hotel Dylan).

Attachment D

2000-2005 New York State Breeding Bird Atlas Survey Results

List of Species Breeding in Atlas Block 5764A

<u>Common Name</u>	<u>Scientific Name</u>	<u>Behavior Code</u>	<u>Date</u>	<u>NY Legal Status</u>
Canada Goose	<i>Branta canadensis</i>	FL	6/30/2003	Game Species
Wood Duck	<i>Aix sponsa</i>	FL	7/12/2003	Game Species
Mallard	<i>Anas platyrhynchos</i>	FL	6/17/2004	Game Species
Ruffed Grouse	<i>Bonasa umbellus</i>	X1	7/12/2003	Game Species
Wild Turkey	<i>Meleagris gallopavo</i>	FL	8/9/2002	Game Species
Great Blue Heron	<i>Ardea herodias</i>	NY	7/7/2002	Protected
Green Heron	<i>Butorides virescens</i>	NY	6/17/2004	Protected
Turkey Vulture	<i>Cathartes aura</i>	NY	6/30/2004	Protected
Osprey	<i>Pandion haliaetus</i>	X1	//2004	Protected-Special Concern
Red-shouldered Hawk	<i>Buteo lineatus</i>	X1	7/5/2002	Protected-Special Concern
Broad-winged Hawk	<i>Buteo platypterus</i>	X1	6/30/2003	Protected
Red-tailed Hawk	<i>Buteo jamaicensis</i>	FL	6/17/2004	Protected
Killdeer	<i>Charadrius vociferus</i>	NE	6/3/2003	Protected
Spotted Sandpiper	<i>Actitis macularius</i>	X1	6/30/2003	Protected
American Woodcock	<i>Scolopax minor</i>	D2	4/28/2003	Game Species
Mourning Dove	<i>Zenaida macroura</i>	FL	6/30/2003	Protected
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	S2	//2004	Protected
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	T2	8/15/2003	Protected
Great Horned Owl	<i>Bubo virginianus</i>	X1	6/26/2003	Protected
Chimney Swift	<i>Chaetura pelagica</i>	P2	6/30/2003	Protected
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	P2	6/17/2004	Protected
Belted Kingfisher	<i>Megaceryle alcyon</i>	P2	7/5/2002	Protected
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	FL	6/17/2004	Protected
Downy Woodpecker	<i>Picoides pubescens</i>	B2	6/17/2004	Protected

Hairy Woodpecker	<i>Picoides villosus</i>	X1	7/5/2002	Protected
Northern Flicker	<i>Colaptes auratus</i>	FY	7/3/2002	Protected
Pileated Woodpecker	<i>Dryocopus pileatus</i>	B2	4/28/2003	Protected
Eastern Wood-Pewee	<i>Contopus virens</i>	D2	8/9/2002	Protected
Acadian Flycatcher	<i>Empidonax virescens</i>	P2	6/3/2003	Protected
Alder Flycatcher	<i>Empidonax alnorum</i>	X1	8/9/2002	Protected
Willow Flycatcher	<i>Empidonax traillii</i>	X1	8/15/2003	Protected
Least Flycatcher	<i>Empidonax minimus</i>	ON	6/30/2003	Protected
Eastern Phoebe	<i>Sayornis phoebe</i>	D2	8/9/2002	Protected
Great Crested Flycatcher	<i>Myiarchus crinitus</i>	D2	6/17/2004	Protected
Eastern Kingbird	<i>Tyrannus tyrannus</i>	FY	6/30/2003	Protected
Yellow-throated Vireo	<i>Vireo flavifrons</i>	S2	//2004	Protected
Blue-headed Vireo	<i>Vireo solitarius</i>	X1	7/5/2002	Protected
Warbling Vireo	<i>Vireo gilvus</i>	T2	6/30/2003	Protected
Red-eyed Vireo	<i>Vireo olivaceus</i>	T2	6/3/2003	Protected
Blue Jay	<i>Cyanocitta cristata</i>	FL	7/8/2003	Protected
American Crow	<i>Corvus brachyrhynchos</i>	FL	7/12/2003	Game Species
Tree Swallow	<i>Tachycineta bicolor</i>	P2	6/17/2004	Protected
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	FL	7/12/2003	Protected
Bank Swallow	<i>Riparia riparia</i>	NY	7/12/2003	Protected
Black-capped Chickadee	<i>Poecile atricapillus</i>	FY	7/12/2003	Protected
Tufted Titmouse	<i>Baeolophus bicolor</i>	FY	6/3/2003	Protected
White-breasted Nuthatch	<i>Sitta carolinensis</i>	S2	7/7/2002	Protected
Carolina Wren	<i>Thryothorus ludovicianus</i>	S2	6/17/2004	Protected
House Wren	<i>Troglodytes aedon</i>	NY	6/17/2004	Protected
Winter Wren	<i>Troglodytes troglodytes</i>	X1	6/26/2003	Protected

Blue-gray Gnatcatcher	<i>Poliophtila caerulea</i>	FL	8/15/2003	Protected
Hermit Thrush	<i>Catharus guttatus</i>	X1	7/12/2003	Protected
Wood Thrush	<i>Hylocichla mustelina</i>	D2	7/3/2002	Protected
American Robin	<i>Turdus migratorius</i>	FY	6/26/2003	Protected
Gray Catbird	<i>Dumetella carolinensis</i>	FY	7/3/2002	Protected
Northern Mockingbird	<i>Mimus polyglottos</i>	B2	6/17/2004	Protected
Brown Thrasher	<i>Toxostoma rufum</i>	X1	7/12/2003	Protected
European Starling	<i>Sturnus vulgaris</i>	FL	6/17/2004	Unprotected
Cedar Waxwing	<i>Bombycilla cedrorum</i>	FL	7/3/2002	Protected
Yellow Warbler	<i>Dendroica petechia</i>	T2	6/17/2004	Protected
Black-throated Green Warbler	<i>Dendroica virens</i>	S2	6/26/2003	Protected
Pine Warbler	<i>Dendroica pinus</i>	S2	//2004	Protected
Prairie Warbler	<i>Dendroica discolor</i>	FL	7/8/2003	Protected
Black-and-white Warbler	<i>Mniotilta varia</i>	S2	7/7/2002	Protected
American Redstart	<i>Setophaga ruticilla</i>	P2	6/3/2003	Protected
Worm-eating Warbler	<i>Helmitheros vermivorum</i>	FL	7/5/2002	Protected
Ovenbird	<i>Seiurus aurocapilla</i>	FL	6/26/2003	Protected
Louisiana Waterthrush	<i>Seiurus motacilla</i>	X1	6/3/2003	Protected
Common Yellowthroat	<i>Geothlypis trichas</i>	FY	7/3/2002	Protected
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	FL	8/15/2003	Protected
Chipping Sparrow	<i>Spizella passerina</i>	FY	7/12/2003	Protected
Clay-colored Sparrow	<i>Spizella pallida</i>	FL	7/12/2003	Protected
Song Sparrow	<i>Melospiza melodia</i>	FY	6/17/2004	Protected
Scarlet Tanager	<i>Piranga olivacea</i>	T2	7/8/2003	Protected
Northern Cardinal	<i>Cardinalis cardinalis</i>	FL	7/12/2003	Protected
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	T2	7/3/2002	Protected

Indigo Bunting	<i>Passerina cyanea</i>	FY	7/12/2003	Protected
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	FL	7/12/2003	Protected
Common Grackle	<i>Quiscalus quiscula</i>	FL	6/17/2004	Protected
Brown-headed Cowbird	<i>Molothrus ater</i>	D2	6/26/2003	Protected
Baltimore Oriole	<i>Icterus galbula</i>	FL	7/5/2002	Protected
Purple Finch	<i>Carpodacus purpureus</i>	X1	6/30/2003	Protected
House Finch	<i>Carpodacus mexicanus</i>	FL	7/12/2003	Protected
American Goldfinch	<i>Spinus tristis</i>	ON	7/31/2003	Protected
House Sparrow	<i>Passer domesticus</i>	ON	7/8/2003	Unprotected

Current Date: 6/22/2016

List of Species Breeding in Atlas Block 5664B				
<u>Common Name</u>	<u>Scientific Name</u>	<u>Behavior Code</u>	<u>Date</u>	<u>NY Legal Status</u>
Canada Goose	<i>Branta canadensis</i>	FL	6/20/2002	Game Species
Wood Duck	<i>Aix sponsa</i>	FL	//2003	Game Species
American Black Duck	<i>Anas rubripes</i>	X1	6/20/2002	Game Species
Mallard	<i>Anas platyrhynchos</i>	FL	7/10/2002	Game Species
Common Merganser	<i>Mergus merganser</i>	P2	//2003	Game Species
Ruffed Grouse	<i>Bonasa umbellus</i>	FL	6/10/2002	Game Species
Wild Turkey	<i>Meleagris gallopavo</i>	FL	7/22/2002	Game Species
American Bittern	<i>Botaurus lentiginosus</i>	P2	8/15/2003	Protected-Special Concern
Great Blue Heron	<i>Ardea herodias</i>	T2	5/15/2004	Protected
Green Heron	<i>Butorides virescens</i>	S2	//2003	Protected
Turkey Vulture	<i>Cathartes aura</i>	X1	6/10/2002	Protected
Osprey	<i>Pandion haliaetus</i>	X1	6/7/2003	Protected-Special Concern
Bald Eagle	<i>Haliaeetus</i>	T2	7/21/2003	Threatened

	<i>leucocephalus</i>			
Sharp-shinned Hawk	<i>Accipiter striatus</i>	T2	7/16/2003	Protected-Special Concern
Red-shouldered Hawk	<i>Buteo lineatus</i>	D2	3/24/2002	Protected-Special Concern
Broad-winged Hawk	<i>Buteo platypterus</i>	P2	4/11/2002	Protected
Red-tailed Hawk	<i>Buteo jamaicensis</i>	D2	5/15/2003	Protected
American Kestrel	<i>Falco sparverius</i>	X1	5/31/2003	Protected
Virginia Rail	<i>Rallus limicola</i>	FL	7/13/2003	Game Species
Killdeer	<i>Charadrius vociferus</i>	T2	4/27/2002	Protected
Spotted Sandpiper	<i>Actitis macularius</i>	S2	//2003	Protected
American Woodcock	<i>Scolopax minor</i>	D2	3/17/2003	Game Species
Mourning Dove	<i>Zenaida macroura</i>	B2	4/26/2004	Protected
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	S2	6/10/2002	Protected
Eastern Screech-Owl	<i>Megascops asio</i>	X1	4/2/2003	Protected
Great Horned Owl	<i>Bubo virginianus</i>	S2	1/20/2002	Protected
Barred Owl	<i>Strix varia</i>	FL	8/9/2004	Protected
Common Nighthawk	<i>Chordeiles minor</i>	X1	5/23/2003	Protected-Special Concern
Whip-poor-will	<i>Caprimulgus vociferus</i>	D2	5/4/2002	Protected-Special Concern
Chimney Swift	<i>Chaetura pelagica</i>	B2	5/24/2003	Protected
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	ON	//2002	Protected
Belted Kingfisher	<i>Megaceryle alcyon</i>	P2	//2002	Protected
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	B2	4/27/2002	Protected
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	X1	6/8/2001	Protected
Downy Woodpecker	<i>Picoides pubescens</i>	P2	//2003	Protected
Hairy Woodpecker	<i>Picoides villosus</i>	ON	4/26/2004	Protected
Northern Flicker	<i>Colaptes auratus</i>	T2	5/10/2003	Protected
Pileated Woodpecker	<i>Dryocopus pileatus</i>	N2	4/29/2002	Protected

Eastern Wood-Pewee	<i>Contopus virens</i>	T2	5/24/2003	Protected
Least Flycatcher	<i>Empidonax minimus</i>	X1	6/20/2002	Protected
Eastern Phoebe	<i>Sayornis phoebe</i>	NY	6/10/2002	Protected
Great Crested Flycatcher	<i>Myiarchus crinitus</i>	P2	5/1/2002	Protected
Eastern Kingbird	<i>Tyrannus tyrannus</i>	P2	6/10/2002	Protected
Yellow-throated Vireo	<i>Vireo flavifrons</i>	X1	6/8/2001	Protected
Blue-headed Vireo	<i>Vireo solitarius</i>	X1	6/8/2001	Protected
Warbling Vireo	<i>Vireo gilvus</i>	X1	//2003	Protected
Red-eyed Vireo	<i>Vireo olivaceus</i>	S2	//2003	Protected
Blue Jay	<i>Cyanocitta cristata</i>	FL	6/30/2004	Protected
American Crow	<i>Corvus brachyrhynchos</i>	N2	4/29/2002	Game Species
Fish Crow	<i>Corvus ossifragus</i>	X1	//2003	Protected
Common Raven	<i>Corvus corax</i>	FL	6/20/2002	Protected
Tree Swallow	<i>Tachycineta bicolor</i>	NE	6/10/2002	Protected
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	X1	//2003	Protected
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	X1	//2003	Protected
Barn Swallow	<i>Hirundo rustica</i>	P2	6/10/2002	Protected
Black-capped Chickadee	<i>Poecile atricapillus</i>	ON	//2002	Protected
Tufted Titmouse	<i>Baeolophus bicolor</i>	T2	3/24/2002	Protected
Red-breasted Nuthatch	<i>Sitta canadensis</i>	P2	5/15/2003	Protected
White-breasted Nuthatch	<i>Sitta carolinensis</i>	P2	4/26/2004	Protected
Brown Creeper	<i>Certhia americana</i>	B2	5/1/2002	Protected
Carolina Wren	<i>Thryothorus ludovicianus</i>	ON	7/27/2004	Protected
House Wren	<i>Troglodytes aedon</i>	ON	//2002	Protected
Winter Wren	<i>Troglodytes troglodytes</i>	S2	5/1/2002	Protected

Blue-gray Gnatcatcher	<i>Polioptila caerulea</i>	FY	7/20/2002	Protected
Eastern Bluebird	<i>Sialia sialis</i>	FL	7/9/2004	Protected
Veery	<i>Catharus fuscescens</i>	S2	//2002	Protected
Hermit Thrush	<i>Catharus guttatus</i>	S2	4/29/2002	Protected
Wood Thrush	<i>Hylocichla mustelina</i>	T2	5/1/2002	Protected
American Robin	<i>Turdus migratorius</i>	FY	6/10/2002	Protected
Gray Catbird	<i>Dumetella carolinensis</i>	ON	//2002	Protected
Northern Mockingbird	<i>Mimus polyglottos</i>	T2	4/29/2002	Protected
European Starling	<i>Sturnus vulgaris</i>	NY	5/15/2003	Unprotected
Cedar Waxwing	<i>Bombycilla cedrorum</i>	S2	//2003	Protected
Yellow-rumped Warbler	<i>Dendroica coronata</i>	X1	6/8/2001	Protected
Pine Warbler	<i>Dendroica pinus</i>	T2	7/28/2001	Protected
Black-and-white Warbler	<i>Mniotilta varia</i>	X1	6/8/2001	Protected
American Redstart	<i>Setophaga ruticilla</i>	T2	5/1/2002	Protected
Worm-eating Warbler	<i>Helmitheros vermivorum</i>	P2	6/10/2002	Protected
Ovenbird	<i>Seiurus aurocapilla</i>	B2	5/15/2004	Protected
Louisiana Waterthrush	<i>Seiurus motacilla</i>	X1	//2003	Protected
Kentucky Warbler	<i>Oporornis formosus</i>	B2	7/12/2003	Protected
Common Yellowthroat	<i>Geothlypis trichas</i>	ON	6/10/2002	Protected
Canada Warbler	<i>Wilsonia canadensis</i>	X1	6/8/2001	Protected
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	T2	7/10/2002	Protected
Chipping Sparrow	<i>Spizella passerina</i>	FY	6/10/2002	Protected
Field Sparrow	<i>Spizella pusilla</i>	ON	6/10/2002	Protected
Song Sparrow	<i>Melospiza melodia</i>	S2	3/24/2002	Protected
White-throated Sparrow	<i>Zonotrichia albicollis</i>	X1	//2003	Protected
Scarlet Tanager	<i>Piranga olivacea</i>	ON	7/10/2002	Protected

Northern Cardinal	<i>Cardinalis cardinalis</i>	B2	5/30/2003	Protected
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	T2	6/19/2004	Protected
Indigo Bunting	<i>Passerina cyanea</i>	D2	7/14/2002	Protected
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	ON	5/15/2004	Protected
Common Grackle	<i>Quiscalus quiscula</i>	X1	5/25/2003	Protected
Brown-headed Cowbird	<i>Molothrus ater</i>	D2	5/1/2002	Protected
Orchard Oriole	<i>Icterus spurius</i>	T2	5/27/2004	Protected
Baltimore Oriole	<i>Icterus galbula</i>	FS	6/10/2002	Protected
Purple Finch	<i>Carpodacus purpureus</i>	S2	4/29/2002	Protected
House Finch	<i>Carpodacus mexicanus</i>	D2	6/16/2003	Protected
American Goldfinch	<i>Spinus tristis</i>	FL	6/22/2003	Protected
House Sparrow	<i>Passer domesticus</i>	ON	5/24/2003	Unprotected

Current Date: 6/22/2016

List of Species Breeding in Atlas Block 5665D				
<u>Common Name</u>	<u>Scientific Name</u>	<u>Behavior Code</u>	<u>Date</u>	<u>NY Legal Status</u>
Canada Goose	<i>Branta canadensis</i>	FL	6/3/2001	Game Species
Mallard	<i>Anas platyrhynchos</i>	FL	6/5/2001	Game Species
Wild Turkey	<i>Meleagris gallopavo</i>	FL	7/19/2001	Game Species
Great Blue Heron	<i>Ardea herodias</i>	FY	6/13/2001	Protected
Red-shouldered Hawk	<i>Buteo lineatus</i>	FY	7/3/2001	Protected-Special Concern
Red-tailed Hawk	<i>Buteo jamaicensis</i>	N2	7/15/2001	Protected
American Kestrel	<i>Falco sparverius</i>	X1	6/25/2001	Protected
Rock Pigeon	<i>Columba livia</i>	ON	7/2/2001	Unprotected
Mourning Dove	<i>Zenaida macroura</i>	P2	7/19/2001	Protected
Eastern Screech-	<i>Megascops asio</i>	X1	5/20/2001	Protected

Owl				
Great Horned Owl	<i>Bubo virginianus</i>	S2	5/30/2001	Protected
Barred Owl	<i>Strix varia</i>	X1	5/20/2001	Protected
Chimney Swift	<i>Chaetura pelagica</i>	FL	6/25/2001	Protected
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	FY	7/22/2001	Protected
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	FY	7/22/2001	Protected
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	FY	6/5/2001	Protected
Downy Woodpecker	<i>Picoides pubescens</i>	FL	6/12/2001	Protected
Hairy Woodpecker	<i>Picoides villosus</i>	FL	7/20/2001	Protected
Northern Flicker	<i>Colaptes auratus</i>	N2	6/25/2001	Protected
Pileated Woodpecker	<i>Dryocopus pileatus</i>	S2	7/2/2001	Protected
Eastern Wood-Pewee	<i>Contopus virens</i>	X1	6/25/2001	Protected
Eastern Phoebe	<i>Sayornis phoebe</i>	NE	7/3/2001	Protected
Great Crested Flycatcher	<i>Myiarchus crinitus</i>	NY	7/3/2001	Protected
Eastern Kingbird	<i>Tyrannus tyrannus</i>	S2	6/25/2001	Protected
Red-eyed Vireo	<i>Vireo olivaceus</i>	FL	7/15/2001	Protected
Blue Jay	<i>Cyanocitta cristata</i>	FY	7/15/2001	Protected
American Crow	<i>Corvus brachyrhynchos</i>	FL	7/28/2001	Game Species
Tree Swallow	<i>Tachycineta bicolor</i>	FY	6/5/2001	Protected
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	FY	7/2/2001	Protected
Barn Swallow	<i>Hirundo rustica</i>	FL	7/2/2001	Protected
Black-capped Chickadee	<i>Poecile atricapillus</i>	FY	7/20/2001	Protected
Tufted Titmouse	<i>Baeolophus bicolor</i>	NY	6/5/2001	Protected
Red-breasted Nuthatch	<i>Sitta canadensis</i>	ON	6/21/2001	Protected

White-breasted Nuthatch	<i>Sitta carolinensis</i>	FY	6/25/2001	Protected
Carolina Wren	<i>Thryothorus ludovicianus</i>	FY	6/21/2001	Protected
House Wren	<i>Troglodytes aedon</i>	NE	6/18/2001	Protected
Eastern Bluebird	<i>Sialia sialis</i>	FL	6/5/2001	Protected
Veery	<i>Catharus fuscescens</i>	X1	6/25/2001	Protected
Wood Thrush	<i>Hylocichla mustelina</i>	NY	6/25/2001	Protected
American Robin	<i>Turdus migratorius</i>	FL	5/30/2001	Protected
Gray Catbird	<i>Dumetella carolinensis</i>	ON	6/16/2001	Protected
Northern Mockingbird	<i>Mimus polyglottos</i>	S2	5/30/2001	Protected
Brown Thrasher	<i>Toxostoma rufum</i>	FL	7/19/2001	Protected
European Starling	<i>Sturnus vulgaris</i>	FL	6/10/2001	Unprotected
Yellow Warbler	<i>Dendroica petechia</i>	N2	6/25/2001	Protected
American Redstart	<i>Setophaga ruticilla</i>	S2	6/28/2001	Protected
Ovenbird	<i>Seiurus aurocapilla</i>	S2	6/25/2001	Protected
Common Yellowthroat	<i>Geothlypis trichas</i>	FY	6/25/2001	Protected
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	S2	6/28/2001	Protected
Chipping Sparrow	<i>Spizella passerina</i>	NE	7/15/2001	Protected
Field Sparrow	<i>Spizella pusilla</i>	FY	6/28/2001	Protected
Song Sparrow	<i>Melospiza melodia</i>	ON	6/28/2001	Protected
Dark-eyed Junco	<i>Junco hyemalis</i>	NE	6/28/2001	Protected
Scarlet Tanager	<i>Piranga olivacea</i>	S2	6/28/2001	Protected
Northern Cardinal	<i>Cardinalis cardinalis</i>	FL	7/19/2001	Protected
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	P2	7/22/2001	Protected
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	FY	7/19/2001	Protected
Common Grackle	<i>Quiscalus quiscula</i>	FL	7/15/2001	Protected
Brown-headed	<i>Molothrus ater</i>	FL	7/15/2001	Protected

Cowbird				
Baltimore Oriole	<i>Icterus galbula</i>	S2	6/15/2001	Protected
Purple Finch	<i>Carpodacus purpureus</i>	X1	6/5/2001	Protected
House Finch	<i>Carpodacus mexicanus</i>	FY	7/19/2001	Protected
American Goldfinch	<i>Spinus tristis</i>	FY	8/25/2001	Protected
House Sparrow	<i>Passer domesticus</i>	ON	7/19/2001	Unprotected

Current Date: 6/22/2016

List of Species Breeding in Atlas Block 5664A				
<u>Common Name</u>	<u>Scientific Name</u>	<u>Behavior Code</u>	<u>Date</u>	<u>NY Legal Status</u>
Canada Goose	<i>Branta canadensis</i>	FL	6/2/2000	Game Species
Wood Duck	<i>Aix sponsa</i>	FL	6/2/2000	Game Species
American Black Duck	<i>Anas rubripes</i>	X1	//2002	Game Species
Mallard	<i>Anas platyrhynchos</i>	FL	6/2/2000	Game Species
Common Merganser	<i>Mergus merganser</i>	FL	6/2/2000	Game Species
Wild Turkey	<i>Meleagris gallopavo</i>	X1	6/2/2000	Game Species
Great Blue Heron	<i>Ardea herodias</i>	X1	6/2/2000	Protected
Green Heron	<i>Butorides virescens</i>	FL	6/2/2000	Protected
Bald Eagle	<i>Haliaeetus leucocephalus</i>	S2	//2002	Threatened
Spotted Sandpiper	<i>Actitis macularius</i>	X1	//2002	Protected
Mourning Dove	<i>Zenaida macroura</i>	S2	//2002	Protected
Barred Owl	<i>Strix varia</i>	X1	//2004	Protected
Whip-poor-will	<i>Caprimulgus vociferus</i>	S2	//2004	Protected-Special Concern
Chimney Swift	<i>Chaetura pelagica</i>	X1	//2004	Protected
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	X1	//2002	Protected
Belted Kingfisher	<i>Megaceryle alcyon</i>	X1	6/2/2000	Protected

Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	S2	//2002	Protected
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	X1	6/2/2000	Protected
Downy Woodpecker	<i>Picoides pubescens</i>	S2	//2004	Protected
Hairy Woodpecker	<i>Picoides villosus</i>	X1	5/29/2001	Protected
Northern Flicker	<i>Colaptes auratus</i>	P2	6/2/2000	Protected
Pileated Woodpecker	<i>Dryocopus pileatus</i>	S2	//2002	Protected
Eastern Wood-Pewee	<i>Contopus virens</i>	S2	//2002	Protected
Least Flycatcher	<i>Empidonax minimus</i>	S2	//2004	Protected
Eastern Phoebe	<i>Sayornis phoebe</i>	X1	5/29/2001	Protected
Great Crested Flycatcher	<i>Myiarchus crinitus</i>	S2	//2002	Protected
Eastern Kingbird	<i>Tyrannus tyrannus</i>	X1	//2004	Protected
Blue-headed Vireo	<i>Vireo solitarius</i>	X1	5/29/2001	Protected
Warbling Vireo	<i>Vireo gilvus</i>	S2	//2004	Protected
Red-eyed Vireo	<i>Vireo olivaceus</i>	S2	//2002	Protected
Blue Jay	<i>Cyanocitta cristata</i>	X1	6/2/2000	Protected
American Crow	<i>Corvus brachyrhynchos</i>	X1	6/2/2000	Game Species
Fish Crow	<i>Corvus ossifragus</i>	X1	//2004	Protected
Tree Swallow	<i>Tachycineta bicolor</i>	FL	6/27/2003	Protected
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	X1	//2002	Protected
Black-capped Chickadee	<i>Poecile atricapillus</i>	S2	//2002	Protected
Tufted Titmouse	<i>Baeolophus bicolor</i>	S2	//2002	Protected
White-breasted Nuthatch	<i>Sitta carolinensis</i>	S2	//2002	Protected
Brown Creeper	<i>Certhia americana</i>	S2	//2002	Protected
House Wren	<i>Troglodytes aedon</i>	X1	6/2/2000	Protected
Blue-gray Gnatcatcher	<i>Poliophtila caerulea</i>	X1	//2004	Protected
Veery	<i>Catharus</i>	S2	//2002	Protected

	<i>fuscescens</i>			
Wood Thrush	<i>Hylocichla mustelina</i>	S2	//2002	Protected
American Robin	<i>Turdus migratorius</i>	FY	//2004	Protected
Gray Catbird	<i>Dumetella carolinensis</i>	X1	6/2/2000	Protected
Cedar Waxwing	<i>Bombycilla cedrorum</i>	S2	//2002	Protected
Yellow Warbler	<i>Dendroica petechia</i>	X1	6/2/2000	Protected
Yellow-rumped Warbler	<i>Dendroica coronata</i>	X1	6/2/2000	Protected
Black-throated Green Warbler	<i>Dendroica virens</i>	X1	//2002	Protected
Blackburnian Warbler	<i>Dendroica fusca</i>	X1	//2002	Protected
Black-and-white Warbler	<i>Mniotilta varia</i>	X1	//2004	Protected
American Redstart	<i>Setophaga ruticilla</i>	S2	//2004	Protected
Worm-eating Warbler	<i>Helmitheros vermivorum</i>	S2	//2002	Protected
Ovenbird	<i>Seiurus aurocapilla</i>	S2	//2002	Protected
Louisiana Waterthrush	<i>Seiurus motacilla</i>	X1	6/27/2003	Protected
Common Yellowthroat	<i>Geothlypis trichas</i>	X1	6/2/2000	Protected
Chipping Sparrow	<i>Spizella passerina</i>	X1	//2002	Protected
Song Sparrow	<i>Melospiza melodia</i>	NE	6/2/2000	Protected
Scarlet Tanager	<i>Piranga olivacea</i>	S2	//2002	Protected
Northern Cardinal	<i>Cardinalis cardinalis</i>	X1	//2002	Protected
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	X1	6/2/2000	Protected
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	P2	6/2/2000	Protected
Common Grackle	<i>Quiscalus quiscula</i>	FY	//2004	Protected
Brown-headed Cowbird	<i>Molothrus ater</i>	X1	6/2/2000	Protected
Baltimore Oriole	<i>Icterus galbula</i>	S2	//2004	Protected

American Goldfinch	<i>Spinus tristis</i>	X1	//2002	Protected
--------------------	-----------------------	----	--------	-----------

Current Date: 6/22/2016

List of Species Breeding in Atlas Block 5564B				
<u>Common Name</u>	<u>Scientific Name</u>	<u>Behavior Code</u>	<u>Date</u>	<u>NY Legal Status</u>
Canada Goose	<i>Branta canadensis</i>	FL	//2004	Game Species
Mallard	<i>Anas platyrhynchos</i>	X1	6/15/2004	Game Species
Common Merganser	<i>Mergus merganser</i>	FL	6/15/2001	Game Species
Wild Turkey	<i>Meleagris gallopavo</i>	FL	6/15/2004	Game Species
Great Blue Heron	<i>Ardea herodias</i>	X1	5/6/2000	Protected
Green Heron	<i>Butorides virescens</i>	X1	6/24/2004	Protected
Turkey Vulture	<i>Cathartes aura</i>	X1	6/24/2004	Protected
Bald Eagle	<i>Haliaeetus leucocephalus</i>	NY	//2002	Threatened
Sharp-shinned Hawk	<i>Accipiter striatus</i>	X1	//2004	Protected-Special Concern
Red-shouldered Hawk	<i>Buteo lineatus</i>	X1	6/15/2004	Protected-Special Concern
Broad-winged Hawk	<i>Buteo platypterus</i>	FL	7/3/2005	Protected
Red-tailed Hawk	<i>Buteo jamaicensis</i>	FL	7/2/2004	Protected
American Kestrel	<i>Falco sparverius</i>	X1	5/6/2000	Protected
Killdeer	<i>Charadrius vociferus</i>	X1	6/21/2005	Protected
Spotted Sandpiper	<i>Actitis macularius</i>	X1	7/5/2002	Protected
Rock Pigeon	<i>Columba livia</i>	X1	7/5/2002	Unprotected
Mourning Dove	<i>Zenaida macroura</i>	FL	6/21/2005	Protected
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	X1	7/3/2005	Protected
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	X1	6/15/2004	Protected
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	X1	6/24/2004	Protected

Belted Kingfisher	<i>Megaceryle alcyon</i>	X1	//2004	Protected
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	FY	6/15/2001	Protected
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	NY	7/3/2005	Protected
Downy Woodpecker	<i>Picoides pubescens</i>	X1	5/6/2000	Protected
Hairy Woodpecker	<i>Picoides villosus</i>	FL	6/24/2004	Protected
Northern Flicker	<i>Colaptes auratus</i>	FL	7/18/2004	Protected
Pileated Woodpecker	<i>Dryocopus pileatus</i>	X1	5/6/2000	Protected
Eastern Wood-Pewee	<i>Contopus virens</i>	S2	7/2/2004	Protected
Least Flycatcher	<i>Empidonax minimus</i>	S2	6/21/2005	Protected
Eastern Phoebe	<i>Sayornis phoebe</i>	UN	6/15/2004	Protected
Great Crested Flycatcher	<i>Myiarchus crinitus</i>	T2	7/18/2004	Protected
Eastern Kingbird	<i>Tyrannus tyrannus</i>	DD	6/24/2004	Protected
Yellow-throated Vireo	<i>Vireo flavifrons</i>	X1	5/6/2000	Protected
Blue-headed Vireo	<i>Vireo solitarius</i>	P2	5/6/2000	Protected
Warbling Vireo	<i>Vireo gilvus</i>	DD	6/21/2005	Protected
Red-eyed Vireo	<i>Vireo olivaceus</i>	FL	7/3/2005	Protected
Blue Jay	<i>Cyanocitta cristata</i>	FY	6/20/2004	Protected
American Crow	<i>Corvus brachyrhynchos</i>	FL	6/15/2004	Game Species
Common Raven	<i>Corvus corax</i>	X1	5/6/2000	Protected
Tree Swallow	<i>Tachycineta bicolor</i>	FL	6/15/2004	Protected
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	X1	6/21/2005	Protected
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	ON	6/21/2005	Protected
Barn Swallow	<i>Hirundo rustica</i>	NY	6/15/2004	Protected
Black-capped Chickadee	<i>Poecile atricapillus</i>	FL	6/24/2004	Protected
Tufted Titmouse	<i>Baeolophus bicolor</i>	FL	6/15/2004	Protected
Red-breasted Nuthatch	<i>Sitta canadensis</i>	X1	5/6/2000	Protected

White-breasted Nuthatch	<i>Sitta carolinensis</i>	FL	6/20/2004	Protected
Brown Creeper	<i>Certhia americana</i>	S2	//2004	Protected
Carolina Wren	<i>Thryothorus ludovicianus</i>	D2	7/12/2004	Protected
House Wren	<i>Troglodytes aedon</i>	DD	6/21/2005	Protected
Blue-gray Gnatcatcher	<i>Polioptila caerulea</i>	X1	7/12/2004	Protected
Eastern Bluebird	<i>Sialia sialis</i>	FL	7/18/2004	Protected
Veery	<i>Catharus fuscescens</i>	S2	//2004	Protected
Hermit Thrush	<i>Catharus guttatus</i>	S2	7/12/2004	Protected
Wood Thrush	<i>Hylocichla mustelina</i>	FY	6/21/2005	Protected
American Robin	<i>Turdus migratorius</i>	FL	6/15/2004	Protected
Gray Catbird	<i>Dumetella carolinensis</i>	FY	6/15/2004	Protected
Brown Thrasher	<i>Toxostoma rufum</i>	X1	6/15/2004	Protected
European Starling	<i>Sturnus vulgaris</i>	FL	6/15/2004	Unprotected
Cedar Waxwing	<i>Bombycilla cedrorum</i>	B2	6/15/2004	Protected
Blue-winged Warbler	<i>Vermivora pinus</i>	X1	5/6/2000	Protected
Yellow Warbler	<i>Dendroica petechia</i>	S2	6/20/2004	Protected
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>	X1	7/12/2004	Protected
Black-throated Blue Warbler	<i>Dendroica caerulescens</i>	X1	7/5/2002	Protected
Yellow-rumped Warbler	<i>Dendroica coronata</i>	FY	7/3/2005	Protected
Black-throated Green Warbler	<i>Dendroica virens</i>	FY	7/2/2004	Protected
Blackburnian Warbler	<i>Dendroica fusca</i>	S2	7/12/2004	Protected
Pine Warbler	<i>Dendroica pinus</i>	X1	6/15/2001	Protected
Black-and-white Warbler	<i>Mniotilta varia</i>	S2	//2004	Protected
American Redstart	<i>Setophaga ruticilla</i>	S2	6/24/2004	Protected
Ovenbird	<i>Seiurus aurocapilla</i>	T2	7/2/2004	Protected

Northern Waterthrush	<i>Seiurus noveboracensis</i>	X1	6/15/2001	Protected
Louisiana Waterthrush	<i>Seiurus motacilla</i>	FY	7/3/2005	Protected
Common Yellowthroat	<i>Geothlypis trichas</i>	FL	7/18/2004	Protected
Eastern Towhee	<i>Pipilo erythrophthalmus</i>	P2	7/18/2004	Protected
Chipping Sparrow	<i>Spizella passerina</i>	FL	6/15/2004	Protected
Song Sparrow	<i>Melospiza melodia</i>	DD	7/12/2004	Protected
White-throated Sparrow	<i>Zonotrichia albicollis</i>	X1	5/6/2000	Protected
Dark-eyed Junco	<i>Junco hyemalis</i>	X1	5/6/2000	Protected
Scarlet Tanager	<i>Piranga olivacea</i>	S2	6/24/2004	Protected
Northern Cardinal	<i>Cardinalis cardinalis</i>	S2	6/24/2004	Protected
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	P2	7/18/2004	Protected
Indigo Bunting	<i>Passerina cyanea</i>	DD	7/3/2005	Protected
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	FL	6/15/2004	Protected
Common Grackle	<i>Quiscalus quiscula</i>	FY	6/15/2004	Protected
Brown-headed Cowbird	<i>Molothrus ater</i>	FL	7/3/2005	Protected
Baltimore Oriole	<i>Icterus galbula</i>	FY	6/21/2005	Protected
Purple Finch	<i>Carpodacus purpureus</i>	X1	7/12/2004	Protected
House Finch	<i>Carpodacus mexicanus</i>	FL	6/21/2005	Protected
American Goldfinch	<i>Spinus tristis</i>	P2	7/12/2004	Protected
House Sparrow	<i>Passer domesticus</i>	ON	6/15/2004	Unprotected

Current Date: 6/22/2016

Attachment E

NYS Department of Environmental Conservation (NYSDEC) Nature Explorer Results

The map displays the Angkor Reservoir in Cambodia, highlighting various geographical features and administrative boundaries. The legend identifies the following elements:

- Major Cities:** Represented by black dots.
- Interstates:** Represented by thick red lines.
- Streets:** Represented by thin yellow lines.
- Natural Communities:** Represented by green polygons.
- Rare Plants and Animals (Generalized):** Represented by pink polygons.
- Counties:** Represented by orange outlines.
- Streams and Rivers:** Represented by blue lines.
- Waterbodies - Small:** Represented by light blue areas.









The map also includes a scale bar indicating 2.14 miles or 3.45 km, and a title bar with 'Map', 'Filter', and 'Print Report' buttons.

Criteria: Selected Map Area

Refine Search

Export Results

Create PDF Report

Common Name 	Subgroup 	Town Distribution Status 	Town Year Last Documented 	Protection Status		Conservation Rank	
Scientific Name				State 	Federal 	State 	Global 
No Records Found							
<p><i>Note:</i> Restricted plants and animals have also been documented in one or more of the Towns or Cities in which your user-defined area is located, but are not listed in these results. This application does not provide information at the level of Town or City on state-listed animals and on other sensitive animals and plants. See a list of the restricted animals and plants documented from the following counties: Ulster. Any individual plant or animal on this county's restricted list may or may not occur in this particular user-defined area.</p> <p>This list only includes records of rare species and significant natural communities from the databases of the NY Natural Heritage Program. This list is not a definitive statement about the presence or absence of all plants and animals, including rare or state-listed species, or of all significant natural communities. For most areas, comprehensive field surveys have not been conducted, and this list should not be considered a substitute for on-site surveys.</p>							

Attachment F

Bat Habitat Assessment Form

PHASE 1 SUMMER HABITAT ASSESSMENTS

INDIANA BAT HABITAT ASSESSMENT DATASHEET

Project Name: Ashokan Rail TrailDate: 6/28-6/29/16, 7/7/16,Township/Range/Section: Hurley and Olive5/17/17Lat Long/UTM/ Zone: Between 42° 0'20.87"N, 74°16'16.63"W and
41°59'5.60"N, 74° 5'13.93"W (NAD 83).Surveyor: Johanna Duffy, CWB
Corinne Steinmuller**Brief Project Description**

Ulster County is proposing the construction of an 11.5-mile pedestrian and bicycle trail which will run from Basin Road in the Town of Hurley to NYS Route 28A in the Town of Olive. The proposed action includes the creation of a recreational trail corridor on a former rail line north of the Ashokan Reservoir.

Project Area

	Total Acres	Forest Acres		Open Acres
Project	56	40		16
Proposed Tree Removal (ac)	Completely cleared	Partially cleared (will leave trees)	Preserve acres- no clearing	
		9.2		

Vegetation Cover Types

Pre-Project	Post-Project
Forested	Forested

Landscape within 5 mile radius

Flight corridors to other forested areas?

Yes

Describe Adjacent Properties (e.g. forested, grassland, commercial or residential development, water sources)

Ashokan Reservoir, commercial and residential development

Proximity to Public Land

What is the distance (mi.) from the project area to forested public lands (e.g., national or state forests, national or state parks, conservation areas, wildlife management areas)?

Project is on forested public land

PHASE 1 SUMMER HABITAT ASSESSMENTS

Use additional sheets to assess discrete habitat types at multiple sites in a project area

Include a map depicting locations of sample sites if assessing discrete habitats at multiple sites in a project area

A single sheet can be used for multiple sample sites if habitat is the same

Sample Site Description

Sample Site No.(s): _____

1

Water Resources at Sample Site			
---------------------------------------	--	--	--

Stream Type (# and length)	Ephemeral	Intermittent	Perennial	Describe existing condition of water sources: Water is high quality and is used for public drinking
	Multiple	Multiple	Multiple	
Pools/Ponds (# and size)	Reservoir	Open and accessible to bats?		
	>8,000 acres	Yes		
Wetlands (approx. ac.)	Permanent	Seasonal		
	Multiple	Multiple		

Forest Resources at Sample Site			
--	--	--	--

Closure/Density	Canopy (> 50')	Midstory (20-50')	Understory (<20')	1=1-10%, 2=11-20%, 3=21-40%, 4=41-60%, 5=61-80%, 6=81=100%
	0	5	5	
Dominant Species of Mature Trees	red maple, striped maple, shagbark hickory, silver maple, northern red oak, eastern white pine, and American beech			
% Trees w/ Exfoliating Bark		30		
Size Composition of Live Trees (%)	Small (3-8 in)	Med (9-15 in)	Large (>15 in)	
	50	30	20	
No. of Suitable Snags				

Standing dead trees with exfoliating bark, cracks, crevices, or hollows. Snags without these characteristics are not considered suitable.

IS THE HABITAT SUITABLE FOR INDIANA BATS? Yes

Additional Comments:

Size of trees qualifies them for potential use as roost trees.
--

Attach aerial photo of project site with all forested areas labeled and a general description of the habitat

Photographic Documentation: habitat shots at edge and interior from multiple locations;
understory/midstory/canopy; examples of potential suitable snags and live trees; water sources

Attachment G

Species Conclusion Table

Species Conclusions Table
Project Name: Ashokan Rail Trail
Date: 7/14/16

Species Name	Potential Habitat Present?	Critical Habitat Present?	ESA/Eagle Act Determination	Notes / Documentation Summary (include full rationale in your report)
Northern long-eared bat (<i>Myotis septentrionalis</i>) and Indiana Bat (<i>Myotis sodalis</i>)	Yes	No	May effect, not likely to Adversely Affect	Although a small portion of the project area will require removal of trees (2 total) greater than 3 inches DBH, the habitat impact will be minimal. Changes in lighting will also occur as a result of the project, due to increases in mast lighting the proposed project is recommended to have a "May Effect not Likely to Adversely Affect" on these protected bat species.
Bog turtle (<i>Clemmys muhlenbergii</i>)	No	No	No Effect	The delineated wetlands to be impacted lacked deep mucky soils, contained common reed, were shaded by upland overstory, and lacked the microtopographic features important to this species.
Bald eagle (<i>Haliaeetus leucocephalus</i>)	Yes	No	May Affect, Not Likely to Adversely Affect. No BGEPA permit required.	Suitable habitat and nest with young identified by BBA and NYSDEP. To avoid impact and necessity for a BGEPA permit, it is recommended that construction that will occur within sight or 660 feet of a nest occur during the non-breeding season, from mid-September to December.
Sharp-Shinned Hawk (<i>Accipiter striatus</i>)	Yes	No	No Effect	Birds breed in deep forests. In winter, will utilize forest edge and open habitat for hunting.
Osprey (<i>Pandion haliaetus</i>)	Yes	No	No Effect	Common around shorelines and waterways. Habitat includes rivers, lakes, reservoirs, lagoons, swamps, and marshes. Nests are usually elevated and within a short distance (12 miles) of an adequate supply of fish.
Red-shouldered hawk (<i>Buteo lineatus</i>)	Yes	No	No Effect	Forest birds that prefer an open sub-canopy for hunting. Can be found in suburban areas with mixed forest and housing. Suitable foraging habitat was identified within the corridor. However, impacts will be temporary and limited to noise during construction.
American bittern (<i>Botaurus lentiginosus</i>)	Yes	No	No Effect	Shallow, freshwater marshes. Tend to stay hidden among dense vegetation. Suitable habitat was identified immediately adjacent the corridor. However, impacts will be temporary and limited to noise during construction. No direct impacts will occur to suitable wetlands for this species.
Whip-poor-will (<i>Caprimulgus vociferos</i>)	No	No	No Effect	Forests with open understory. Found in both deciduous and deciduous pine mix. Nest on forest floor and are strictly nocturnal. No open understory was identified within the project corridor.
Common nighthawk (<i>Chordeiles minor</i>)	No	No	No Effect	Nest on bare soil and/or rock in forest clearings, but have also been known to nest on gravel rooftops. No bare soil and/or rock clearings were identified within the project corridor.

Exhibit 9: Supplemental New York City Department of
Environmental Protection Watercourse Delineation



Legend

- Trail Centerline
- DEP Stream
- DEP Wetland
- B&L Stream
- B&L Wetland



Legend

- Trail Centerline
- DEP Stream
- DEP Wetland
- B&L Stream
- B&L Wetland





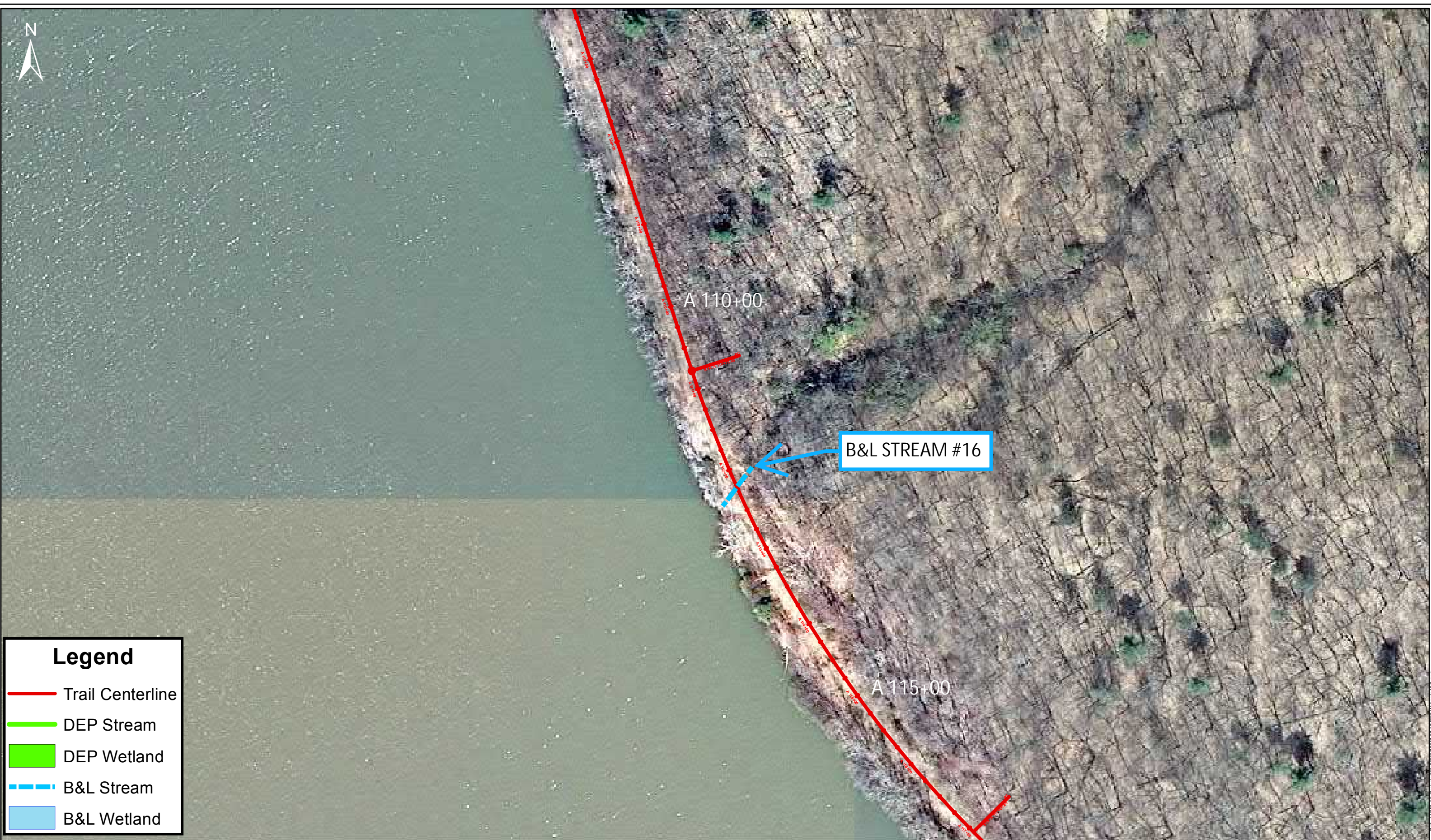


Legend

- Trail Centerline
- DEP Stream
- DEP Wetland
- B&L Stream
- B&L Wetland



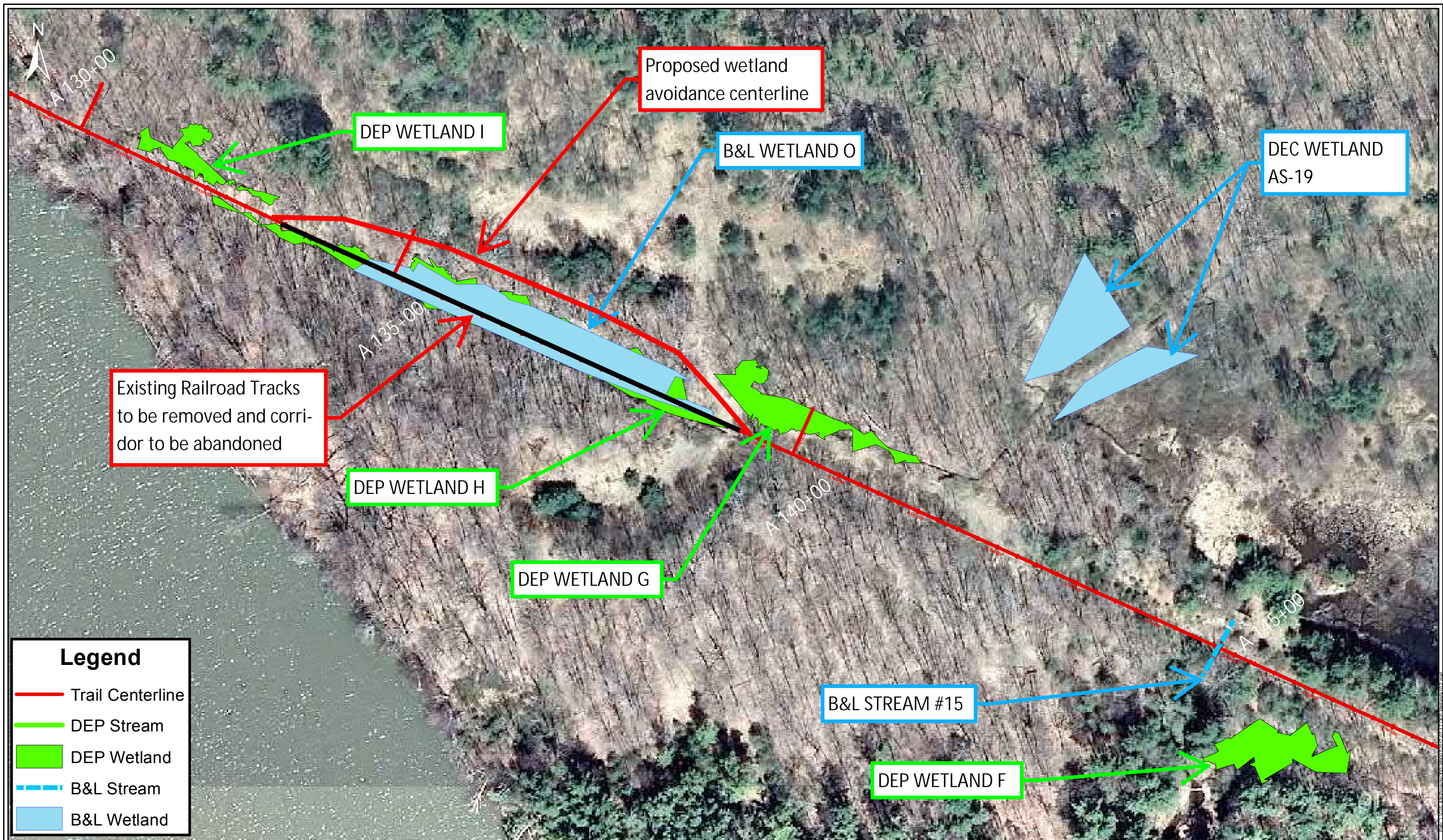
1 inch = 100 feet

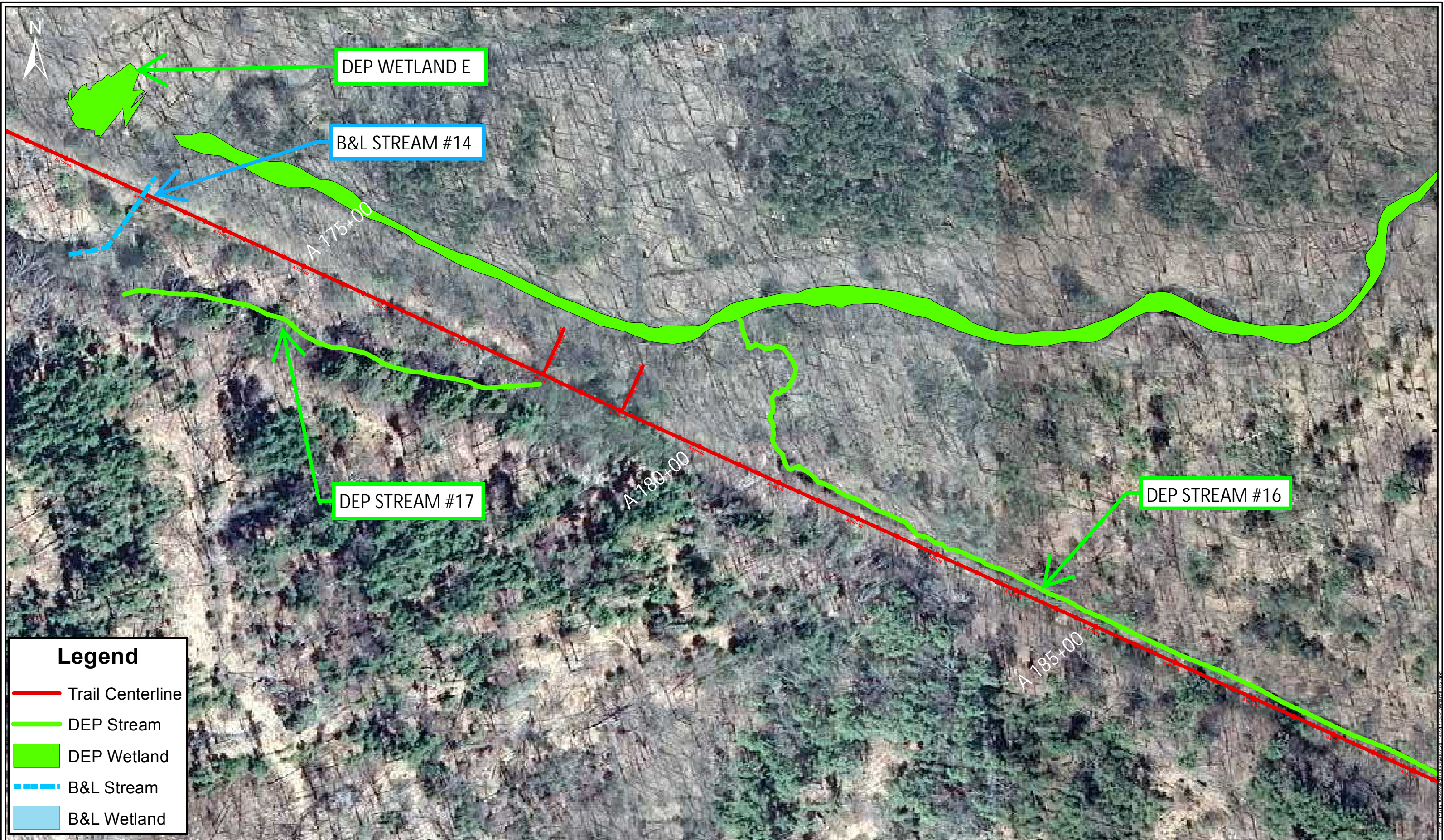


Legend

- Trail Centerline
- DEP Stream
- DEP Wetland
- B&L Stream
- B&L Wetland







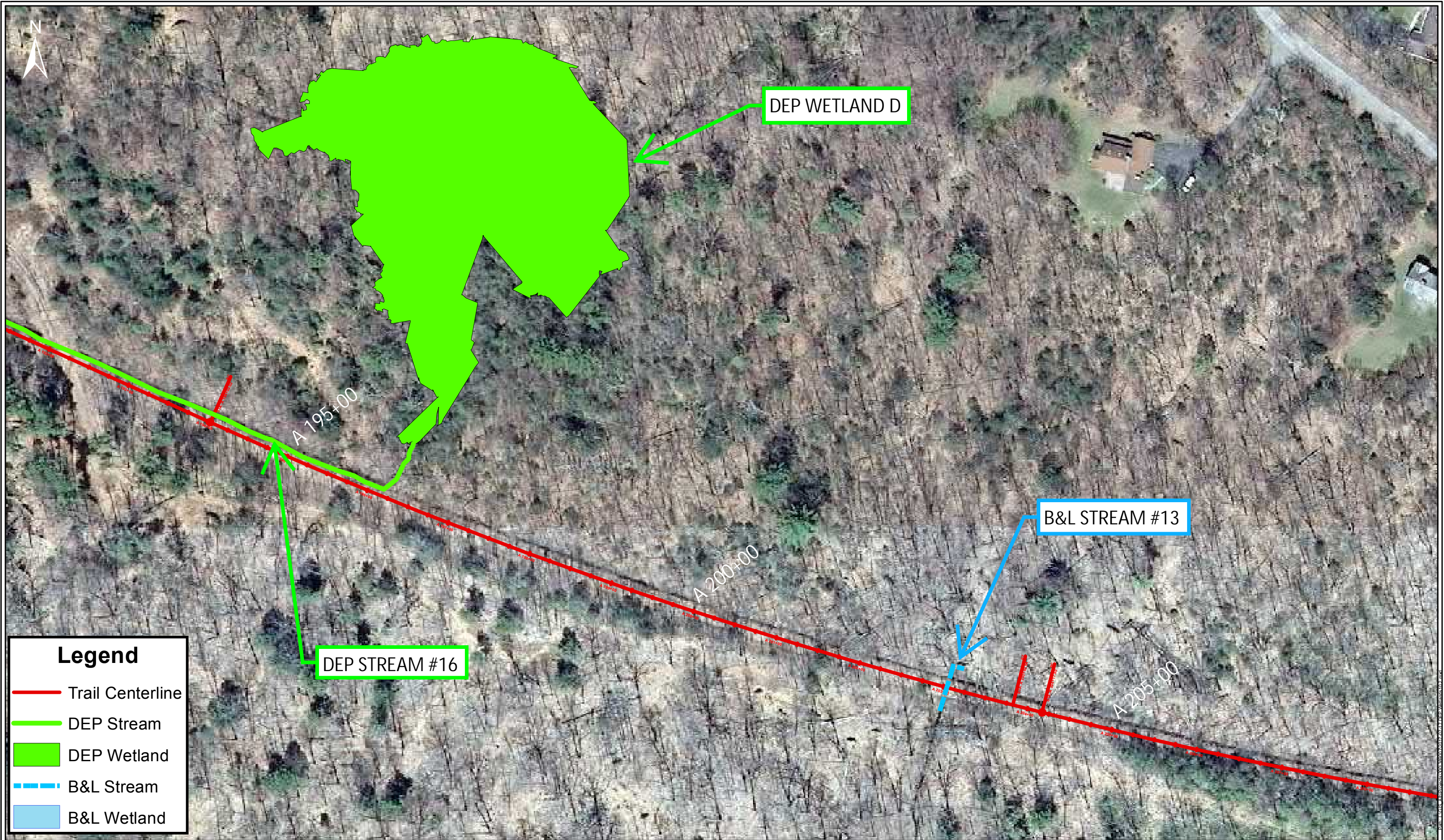
Legend

- Trail Centerline
- DEP Stream
- DEP Wetland
- B&L Stream
- B&L Wetland

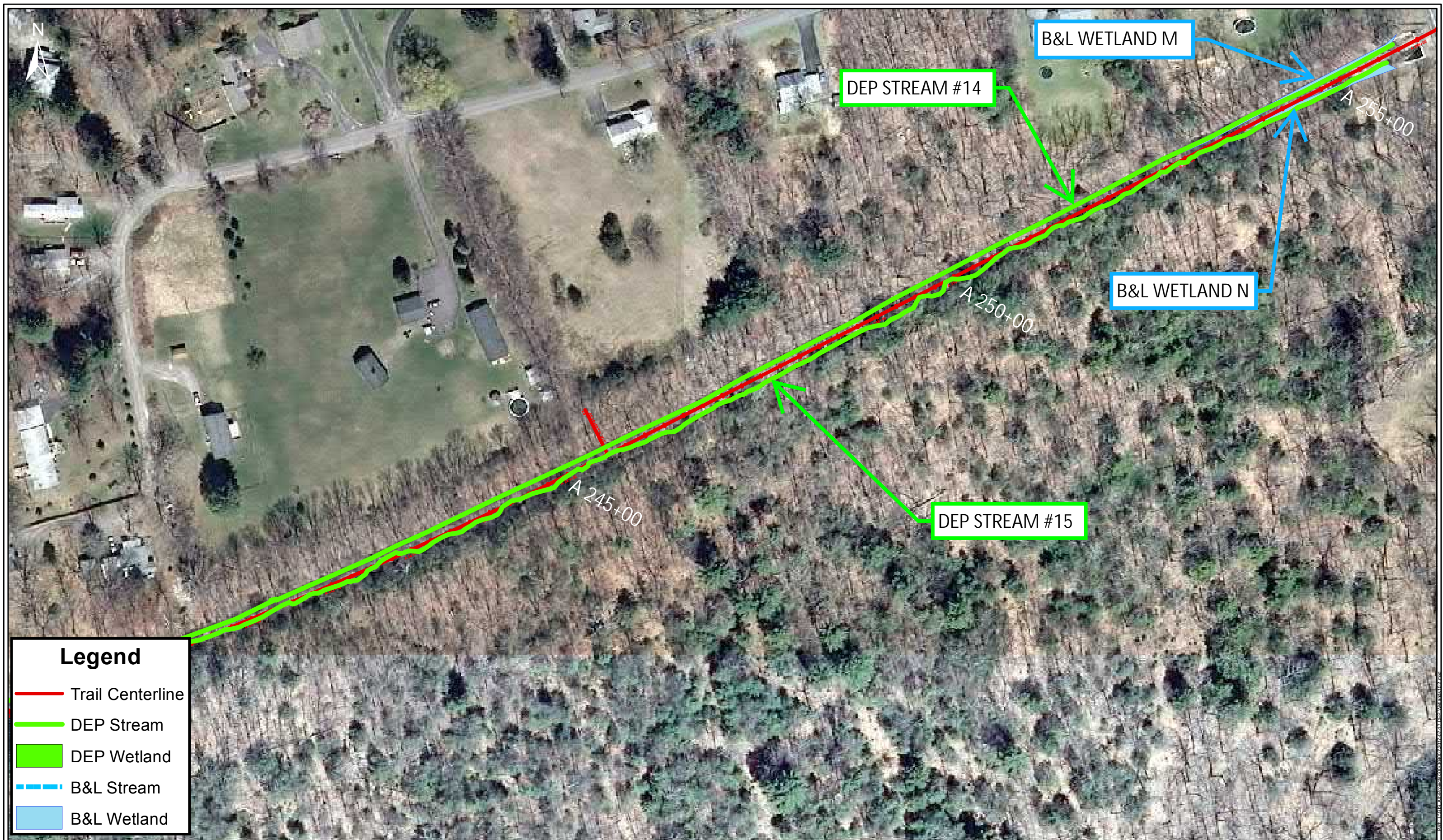


Legend

- Trail Centerline
- DEP Stream
- DEP Wetland
- B&L Stream
- B&L Wetland

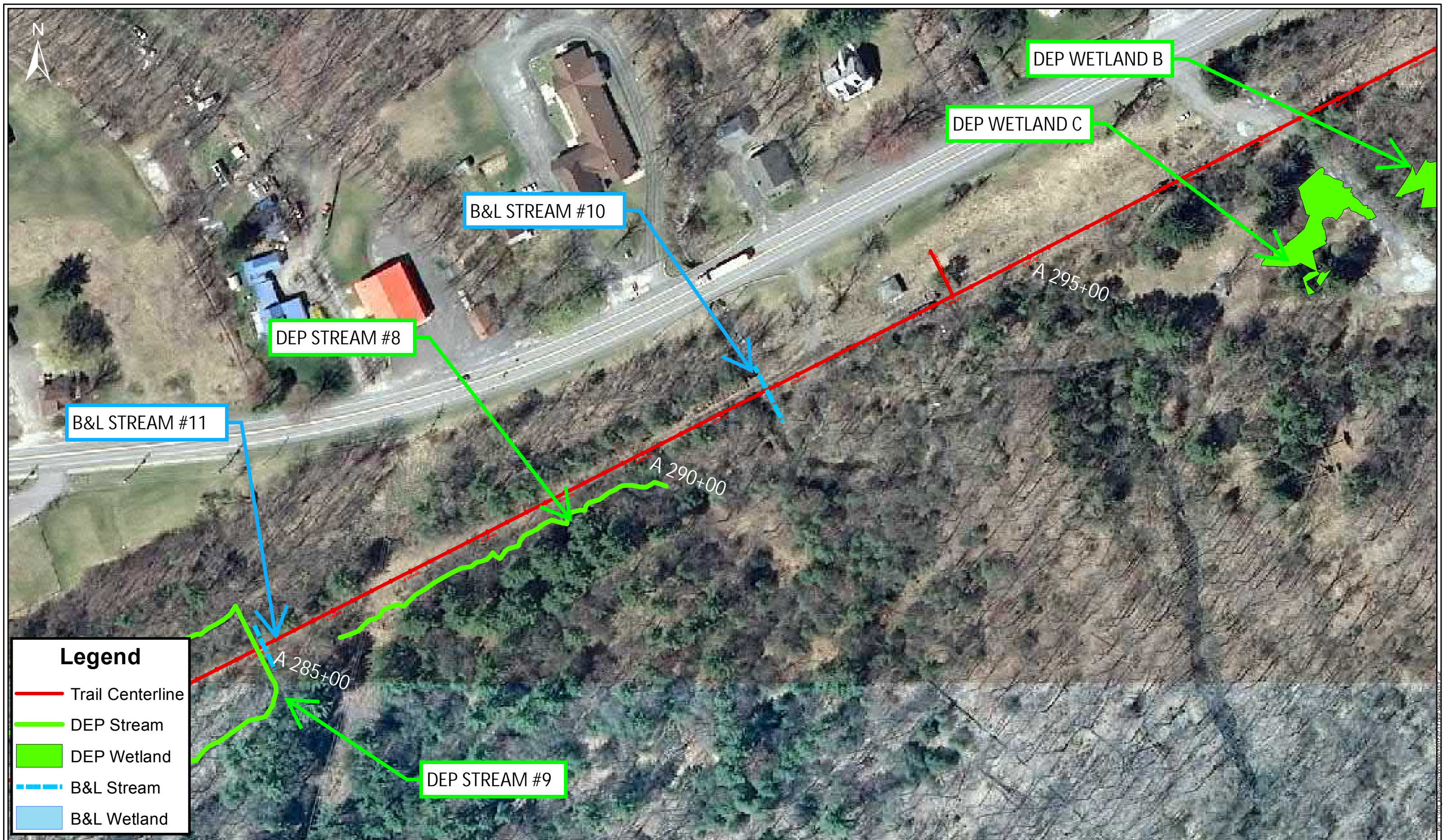


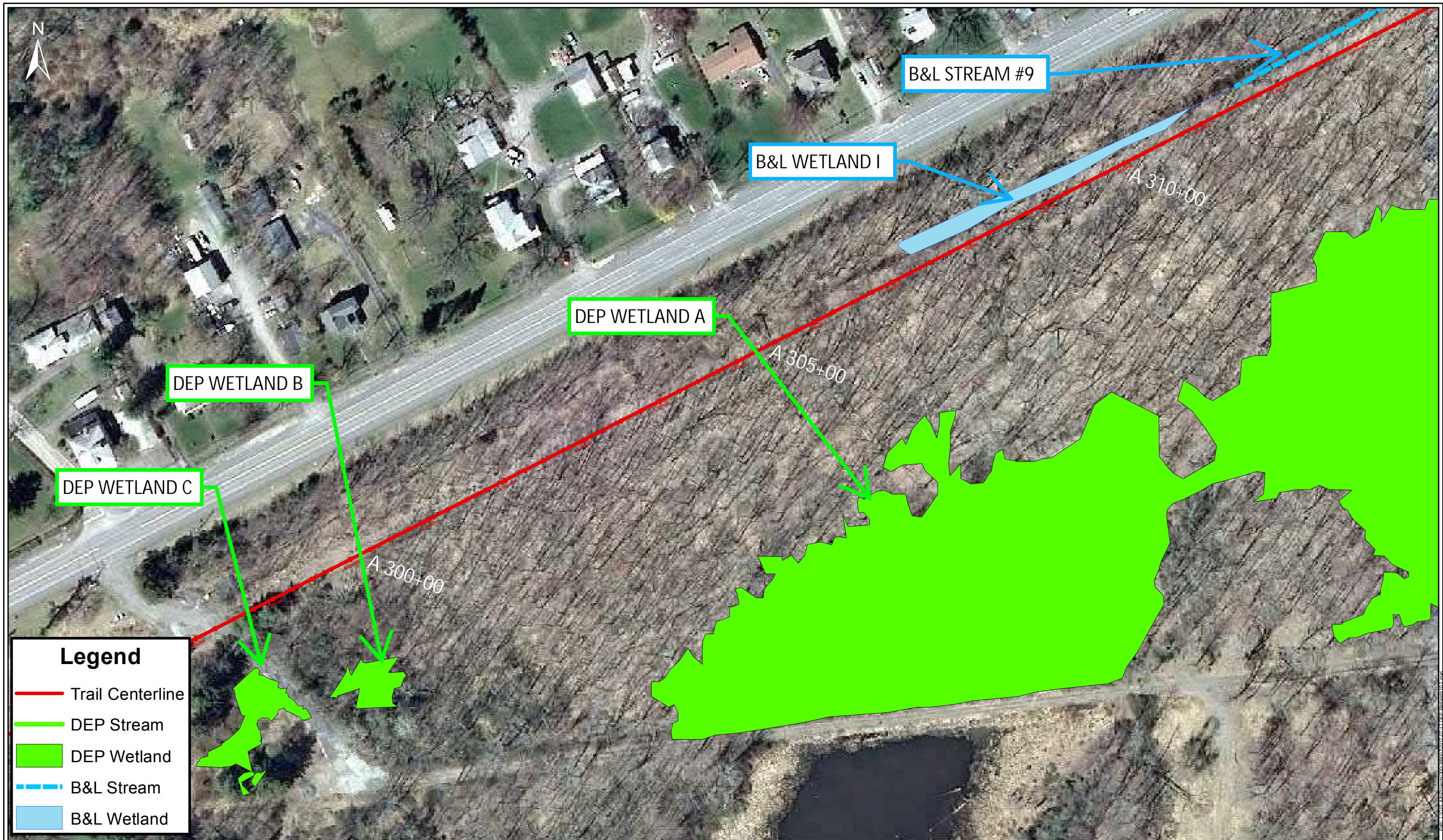








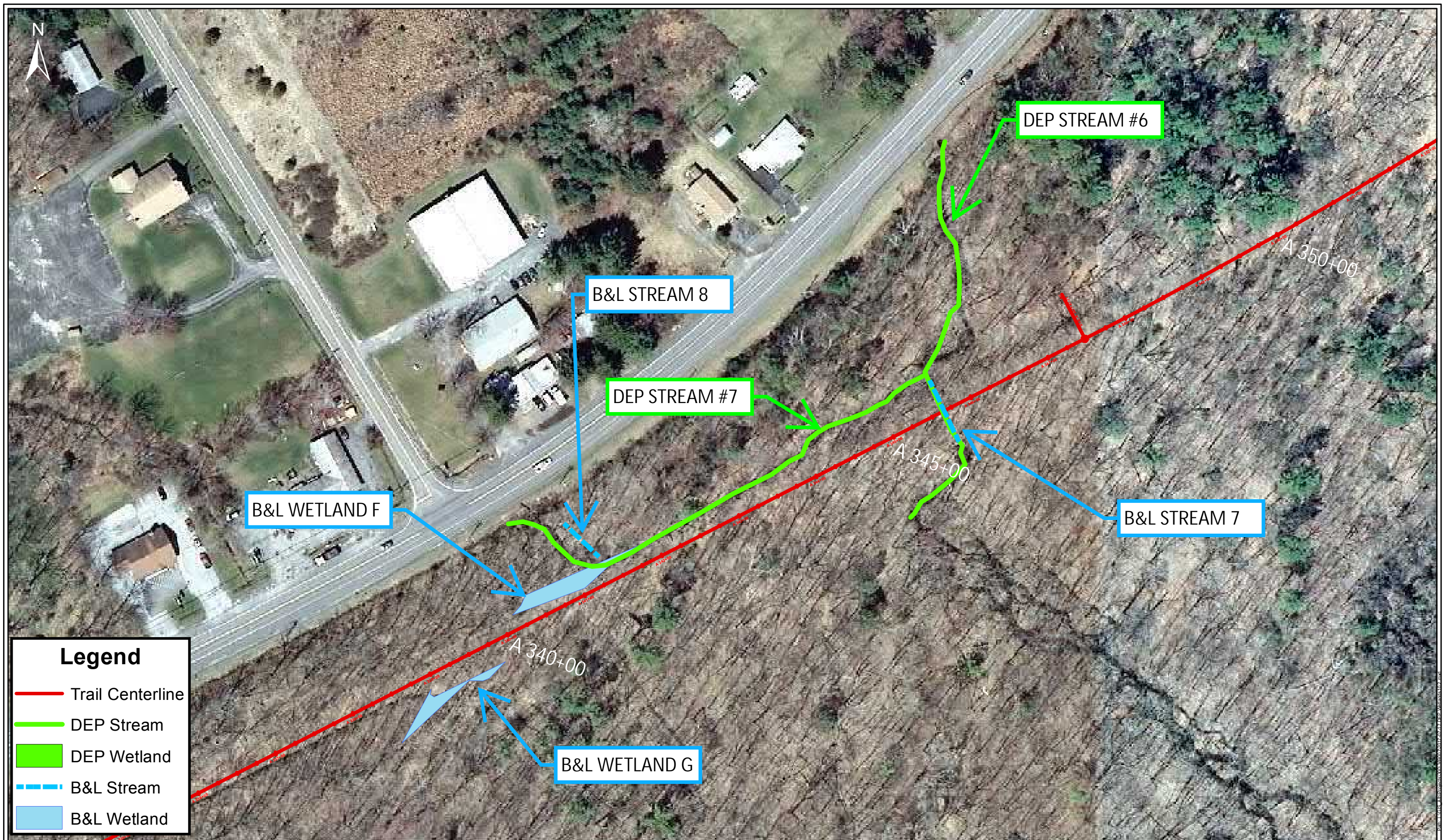






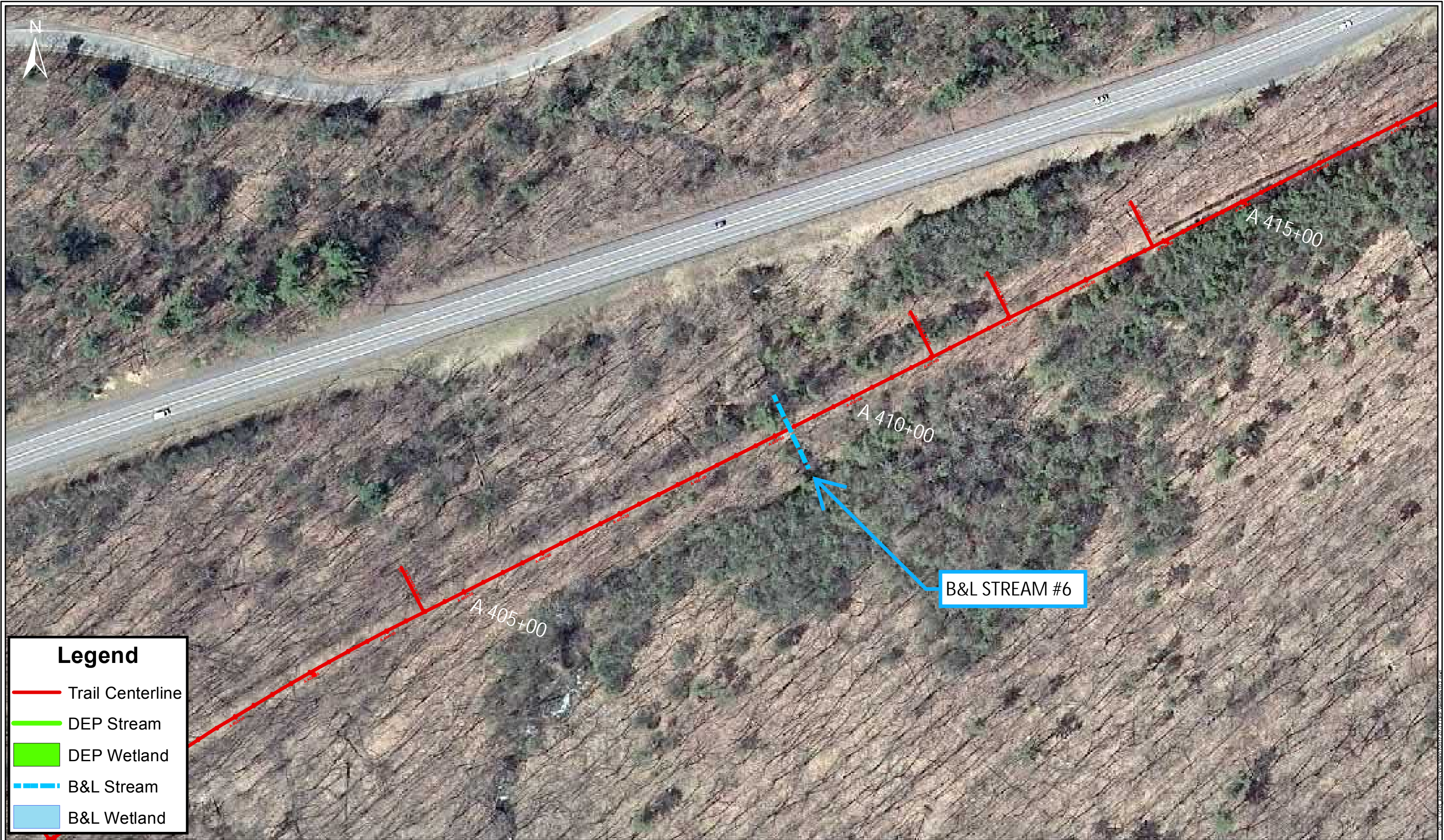
Legend

- Trail Centerline
- DEP Stream
- DEP Wetland
- B&L Stream
- B&L Wetland



Legend

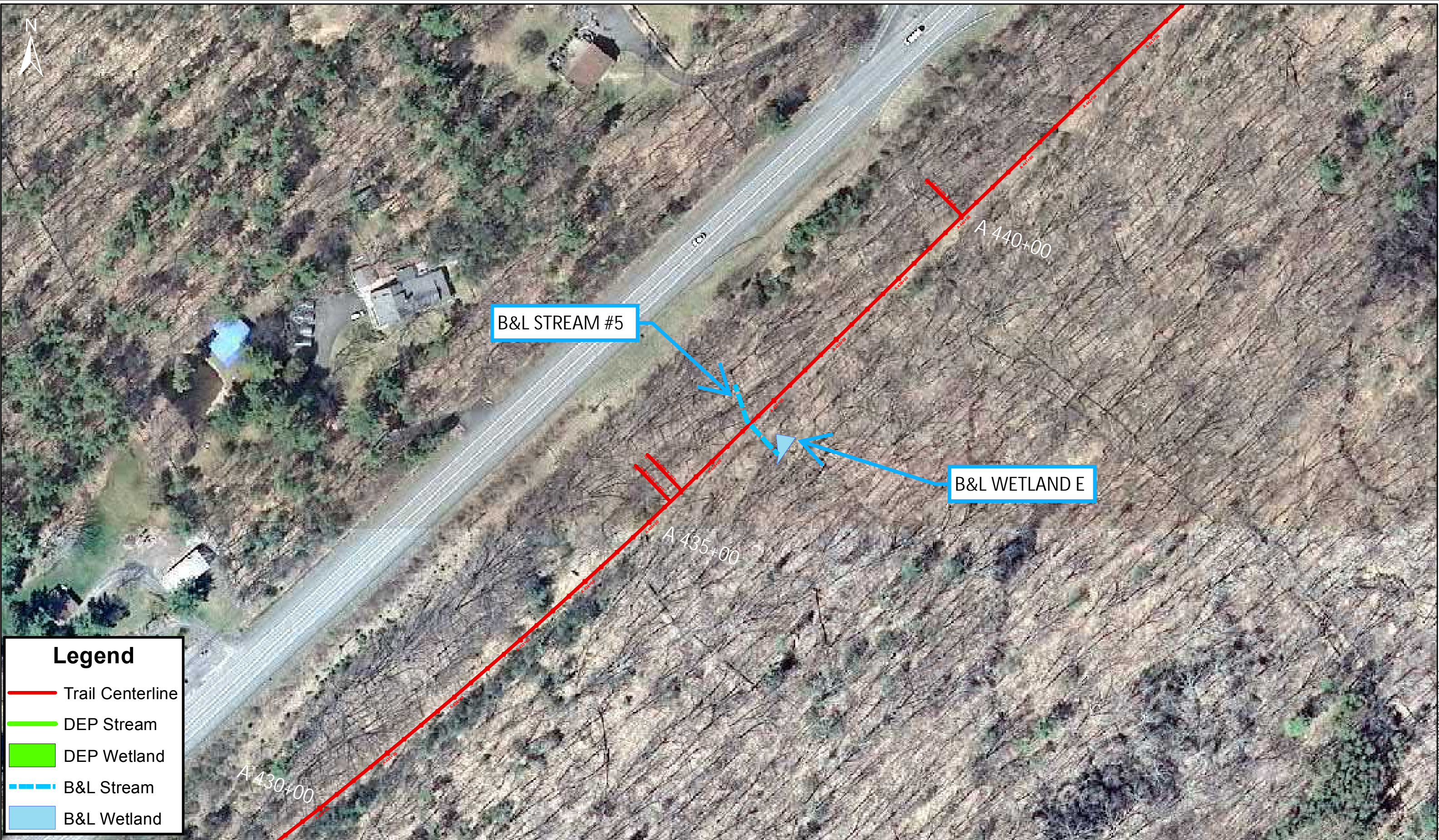
- Trail Centerline
- DEP Stream
- DEP Wetland
- B&L Stream
- B&L Wetland



Legend

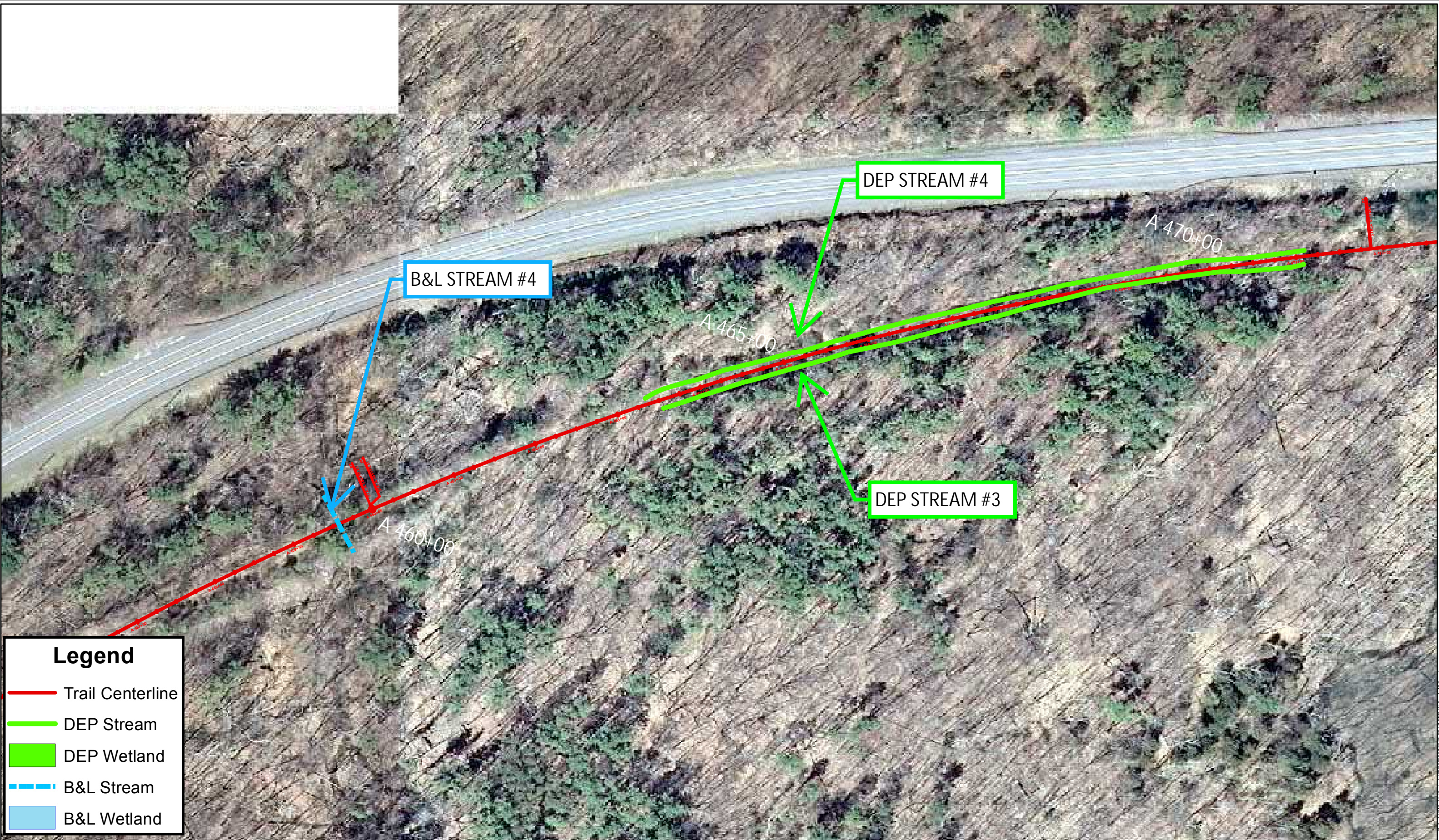
- Trail Centerline
- DEP Stream
- DEP Wetland
- B&L Stream
- B&L Wetland





Legend

- Trail Centerline
- DEP Stream
- DEP Wetland
- B&L Stream
- B&L Wetland



Legend

- Trail Centerline
- DEP Stream
- DEP Wetland
- B&L Stream
- B&L Wetland





Legend

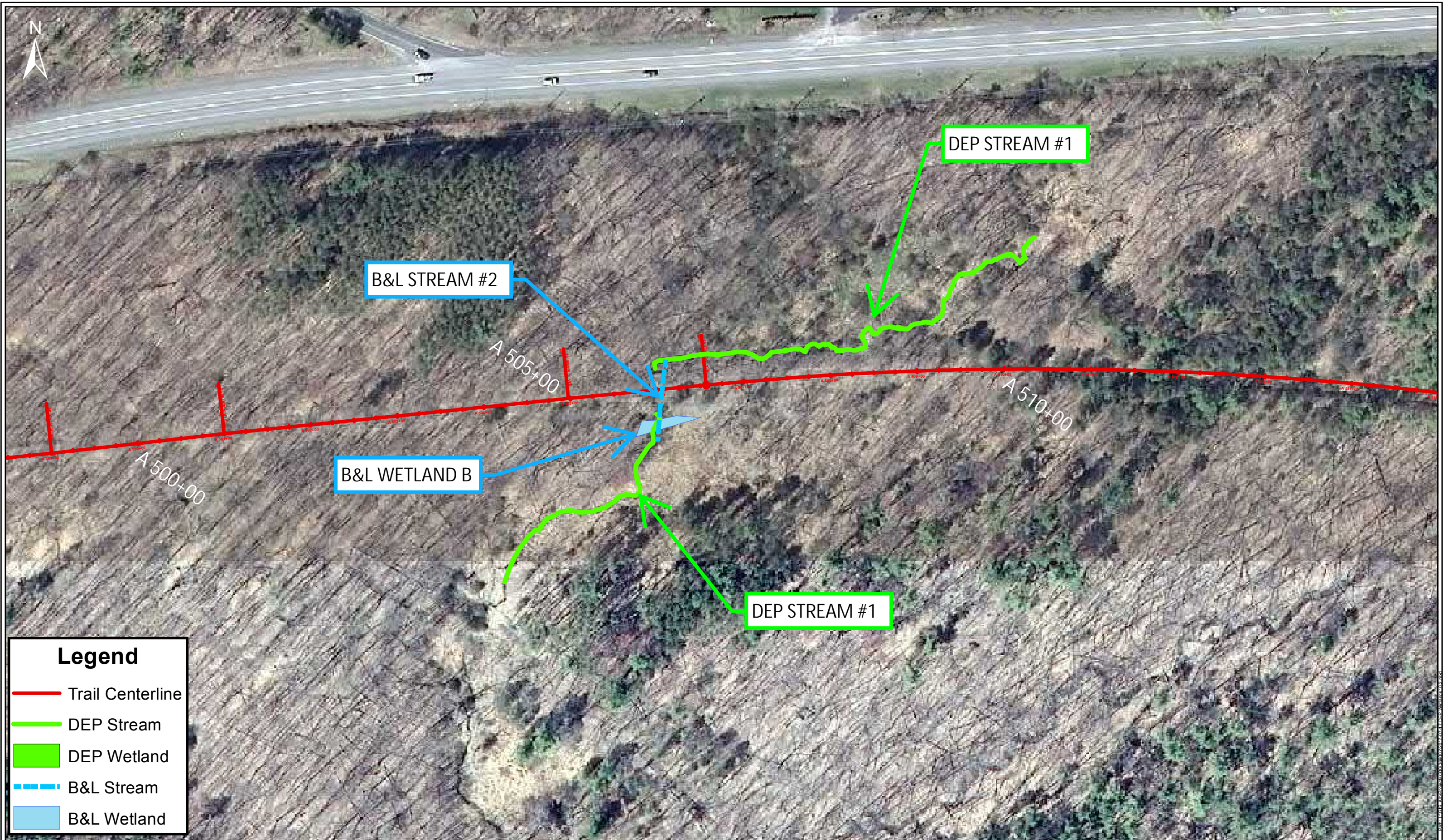
Trail Centerline

DEP Stream

DEP Wetland

B&L Stream

B&L Wetland





Legend

Trail Centerline

DEP Stream

DEP Wetland

B&L Stream

B&L Wetland



Legend

Trail Centerline

DEP Stream

DEP Wetland

B&L Stream

B&L Wetland

