

ATTACHMENT 6

SITE PLANS

Revised June 2025



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INDEX

COVER
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NOTES

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GENERAL NOTES

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TIOGA COUNTY

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REVISIONS

NO.	BY	DATE	REMARKS
1	BC	6/13/2025	PADEP RPCO TECHNICAL REVIEW COMMENTS



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NATIONAL FUEL GAS SUPPLY CORPORATION
TIOGA PATHWAY PROJECT

SITE SPECIFICS
COVER SHEET

DATE:	11/01/2024
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COVER	



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LEGEND

	EXISTING MAJOR CONTOUR		LIMIT OF DISTURBANCE
	EXISTING MINOR CONTOUR		ENVIRONMENTAL SURVEY LIMIT
	EXISTING TREE LINE		EXISTING PERMANENT EASEMENT
	EXISTING FENCELINE		PROPOSED PIPELINE
	EXISTING ROAD CENTERLINE		12" COMPOST FILTER SOCK
	EXISTING ROAD EDGE		18" COMPOST FILTER SOCK
	EXISTING PIPELINE		24" COMPOST FILTER SOCK
	EXISTING BUILDING		PERMANENT WATER BAR W/ END TREATMENT
	PROPERTY LINE		TEMPORARY WATER BAR W/ END TREATMENT
	TOWNSHIP BOUNDARY		AASHTO #1 ROCK CONSTRUCTION ENTRANCE
	100-YEAR FLOODWAY		TIMBER MAT CROSSING / TEMPORARY EQUIPMENT BRIDGE
	100-YEAR FEMA FLOODPLAIN		EROSION CONTROL BLANKET
	EXISTING STREAM WITH FLOW DIRECTION		AGGREGATE STOCKPILE
	EXISTING DITCH		TRENCH PLUG
	SOIL BOUNDARY		SOIL STOCKPILE
	SOIL TYPE		EXISTING ACCESS ROAD / PROPOSED ACCESS ROAD
	EXISTING WETLAND (PEM)		
	EXISTING WETLAND (PFO)		
	EXISTING WETLAND (PSS)		
	EXISTING POND		



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GENERAL NOTES

1. INFORMATION PROVIDED WITHIN THE SITE SPECIFICS PREPARED BY TETRA TECH, INC. INCLUDES QUANTITIES OF IMPACTS TO AQUATIC RESOURCES AS A RESULT OF PROPOSED CONSTRUCTION, AND DESIGN OF EROSION AND SEDIMENTATION CONTROL (E&S) BEST MANAGEMENT PRACTICES (BMPS) FOR THE PURPOSE OF PREVENTING AND/OR MINIMIZING EROSION AND SEDIMENTATION DURING CONSTRUCTION. THE SITE SPECIFICS HAVE BEEN PREPARED FOR AGENCY PERMITTING AND THE DESIGN OF E&S BMPS ONLY, AND HAVE BEEN PREPARED IN RELIANCE ON SOURCE DATA AS PROVIDED AND DESCRIBED IN GENERAL NOTE 2. TOPOGRAPHY, CONTOURS, AND ALL IDENTIFICATION, CHARACTERIZATION, AND/OR LOCATION OF SITE FEATURES (E.G. STRUCTURES, ROADWAYS, ETC.) ARE ASSUMED TO BE ACCURATE; HOWEVER, TETRA TECH, INC. HAS PERFORMED NO FIELD VERIFICATION.

2. SOURCE DATA

DATA USED FOR DEVELOPMENT OF THIS PLAN INCLUDES, BUT MAY NOT BE LIMITED TO THE FOLLOWING SOURCES:

- LINE Z20 PIPELINE: EXISTING CONTOURS AND SITE FEATURES BASED ON LIGHT DETECTION AND RANGING (LIDAR) TOPOGRAPHY AND AERIAL IMAGERY OBTAINED FROM THE PENNSYLVANIA SPATIAL DATA ACCESS (PASDA) GEOSPATIAL DATA PORTAL; JUNE 2024.
- LINE YM59 PIPELINE: EXISTING CONTOURS AND SITE FEATURES BASED ON LIDAR TOPOGRAPHY AND AERIAL IMAGERY OBTAINED FROM AN AERIAL FIELD SURVEY PERFORMED BY OTHERS AND PROVIDED TO TETRA TECH, INC. BY NATIONAL FUEL GAS SUPPLY CORPORATION.
- ALL PARCEL BOUNDARIES, LANDOWNER INFORMATION, EXISTING AND PROPOSED PIPELINE LOCATIONS, RIGHT-OF-WAY AND EASEMENT LINES, AND WORK SPACES PROVIDED TO TETRA TECH, INC. BY NATIONAL FUEL GAS SUPPLY CORPORATION. INFORMATION DEPICTED ON THE PLAN DRAWINGS REPRESENTS THE BEST AVAILABLE INFORMATION PROVIDED. NATIONAL FUEL GAS SUPPLY CORPORATION IS RESPONSIBLE FOR ACCURACY OF THE INFORMATION PROVIDED AND DEPICTED ON THE PLAN DRAWINGS.
- ALL PROPOSED PIPELINE STATIONING PROVIDED TO TETRA TECH, INC. BY NATIONAL FUEL GAS SUPPLY CORPORATION. NOTE: PIPELINE STATIONS DEPICTED ON THESE DRAWINGS REPRESENT 3D STATIONS AND ARE NOT INTENDED TO REPRESENT A CONSISTENT 2D HORIZONTAL SCALE.
- SOIL TYPES AND LOCATIONS BASED ON MAPPING OBTAINED FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) NATURAL RESOURCES CONSERVATION SERVICES (NRCS) SOIL SURVEY GEOGRAPHIC (SSURGO) DATABASE; JUNE 2024.
- IDENTIFICATION, CHARACTERIZATION, AND DELINEATION OF AQUATIC RESOURCES BASED ON FIELD SURVEYS PERFORMED BY TETRA TECH, INC.; OCTOBER - NOVEMBER 2023 AND APRIL - MAY 2024.
- 100-YEAR FLOODWAY BASED ON MAPPING OBTAINED FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) DATABASE; OR, IS OTHERWISE IDENTIFIED AS AN ASSUMED 50-FT OFFSET FROM STREAM ORDINARY HIGH WATER MARK IN THE ABSENCE OF FEMA MAPPING.

3. CONTRACTOR RESPONSIBILITY

THE CONTRACTOR, ALTHOUGH UNKNOWN AT TIME OF PLAN ISSUANCE, WILL BE IDENTIFIED BY NATIONAL FUEL GAS SUPPLY CORPORATION AT CONTRACT BID. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS, PROCEDURES, SEQUENCING, AND TECHNIQUES INVOLVED WITH ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING AND PRESERVING THE INTEGRITY OF ALL ENVIRONMENTAL FEATURES AND/OR ALL AREAS THAT ARE NOT TO BE DISTURBED. PRIOR TO ANY EARTH DISTURBANCE ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACCURACY OF FIELD CONDITIONS DEPICTED ON THE PLAN DRAWINGS AND FOR NOTIFYING NATIONAL FUEL GAS SUPPLY CORPORATION OF ANY DISCREPANCIES.



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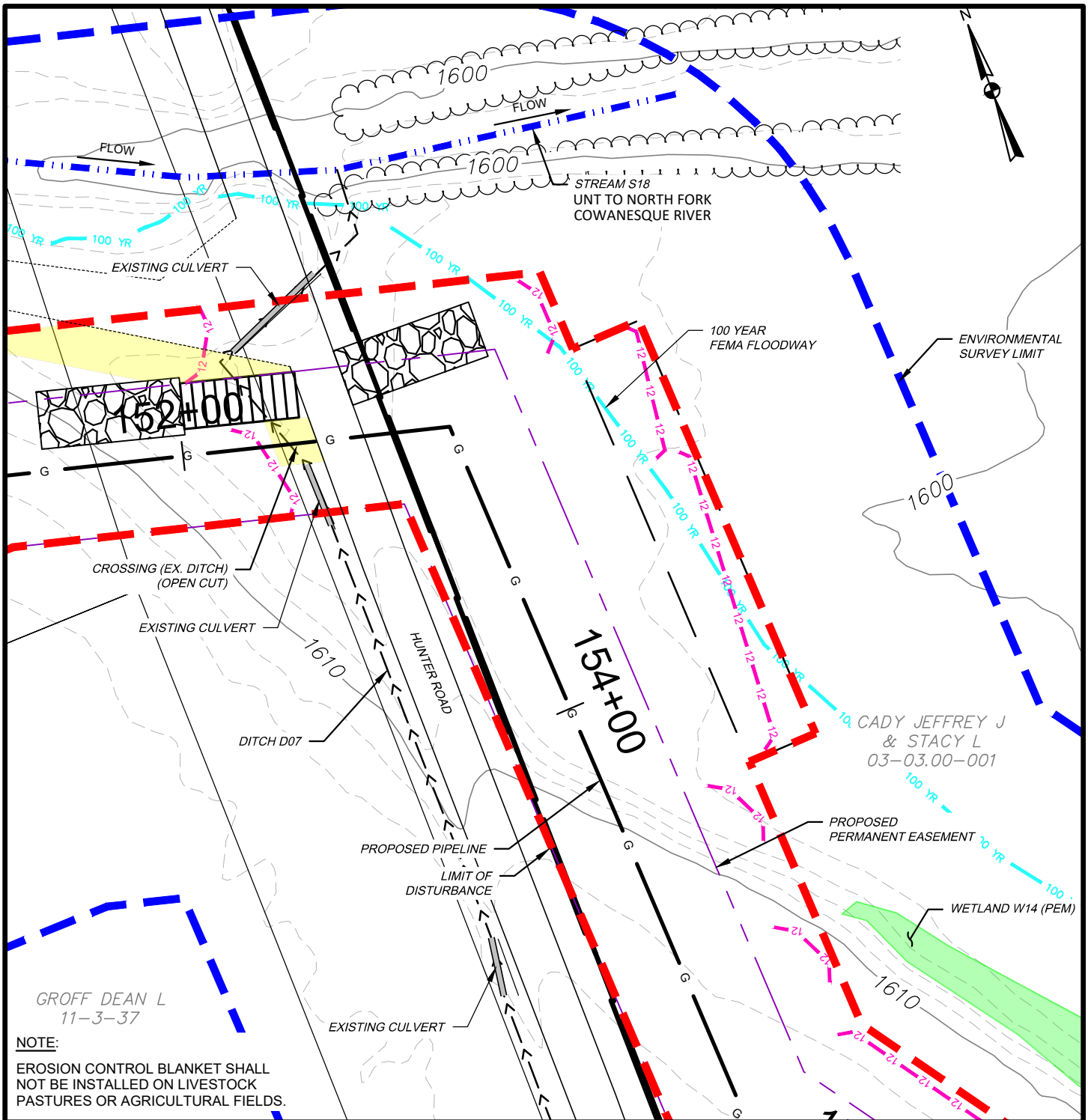
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TIOGA PATHWAY PROJECT

SITE SPECIFICS
GENERAL NOTES

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NOTES



NOTE:

EROSION CONTROL BLANKET SHALL NOT BE INSTALLED ON LIVESTOCK PASTURES OR AGRICULTURAL FIELDS.

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
2.88	S18	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	25	41.960858	-77.608491	0.000	0.000	0.052	0.000	FLACT



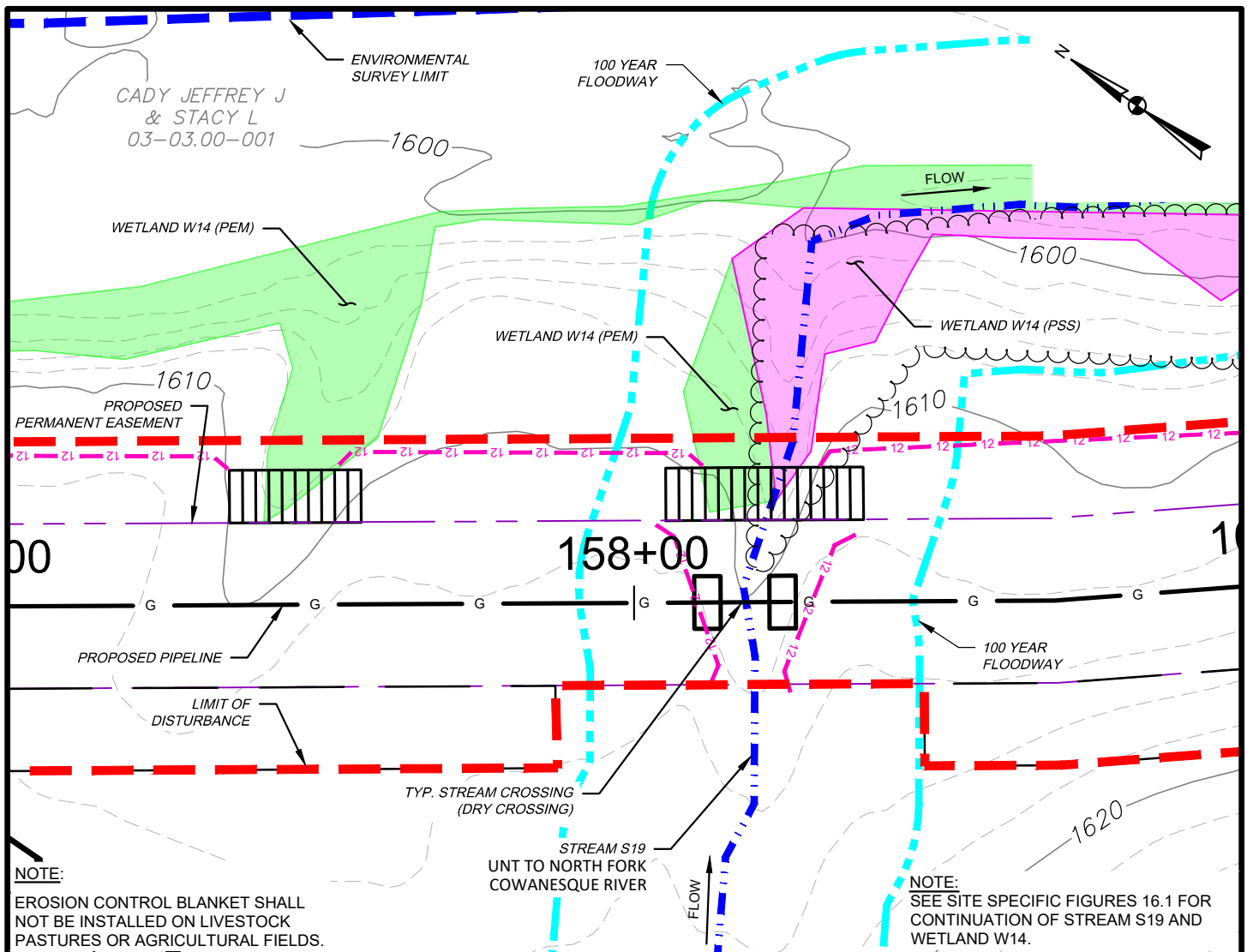
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NATIONAL FUEL GAS SUPPLY CORPORATION
TIOGA PATHWAY PROJECT
SITE SPECIFICS
YM59 PIPELINE
BROOKFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE:	11/01/2024
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FIGURE 15	



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
2.96	W14	41.959947	-77.608239	BROOKFIELD	0.029	0.003	-	0.001	0.000	-	TMPWI; WTDIM
3.00		41.959644	-77.607951				-			-	TMPWI; WTDIM
3.16		41.958172	-77.605524				-			-	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
3.00	S19	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	10	41.958876	-77.606803	0.030	0.005	0.172	0.026	FLACT
3.25	S20	NORTH FORK COWANESQUE RIV.	PERENNIAL	25	41.958269	-77.604058	0.045	0.006	1.399	0.171	PIPE; BRDG; FLACT



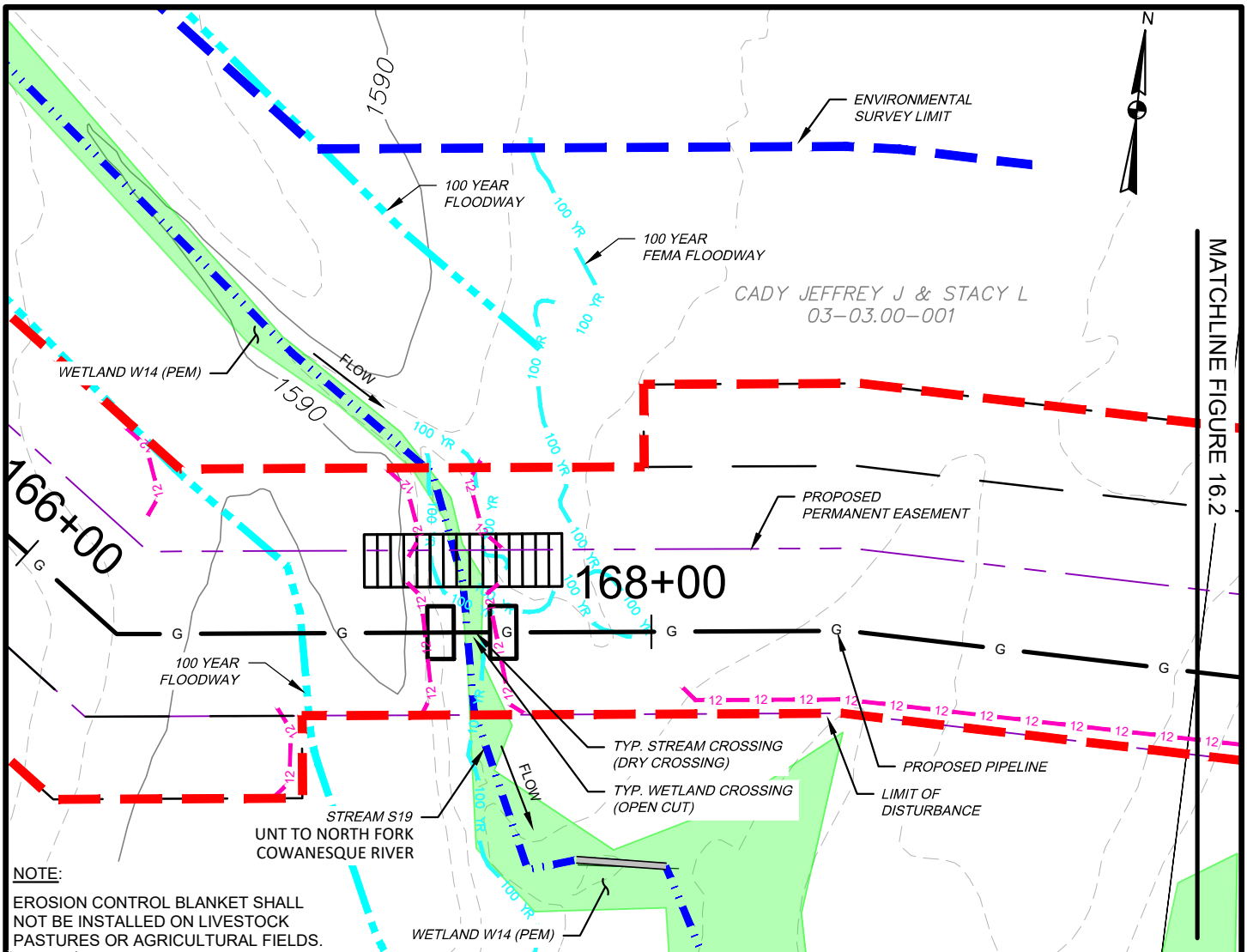
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YM59 PIPELINE
BROOKFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 16



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
2.96	W14	41.959947	-77.608239	BROOKFIELD	0.029	0.003	-	0.001	0.000	-	TMPWI; WTDIM
3.00		41.959644	-77.607951				-			-	TMPWI; WTDIM
3.16		41.958172	-77.605524				-			-	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
3.00	S19	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	10	41.958876	-77.606803	0.030	0.005	0.172	0.026	FLACT
3.25	S20	NORTH FORK COWANESQUE RIV.	PERENNIAL	25	41.958269	-77.604058	0.045	0.006	1.399	0.171	PIPE; BRDG; FLACT



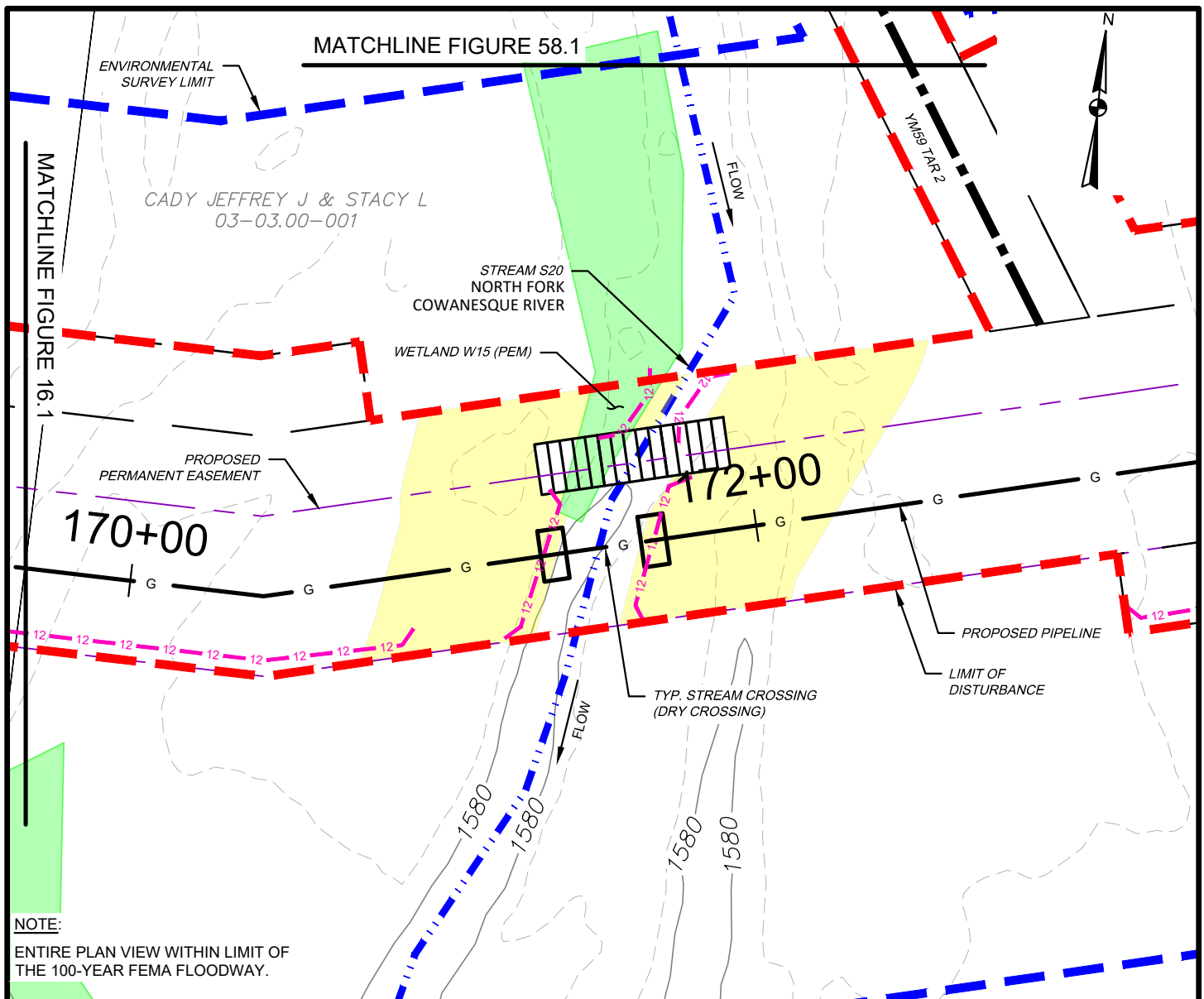
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YM59 PIPELINE
BROOKFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 16.1



NOTE:
ENTIRE PLAN VIEW WITHIN LIMIT OF
THE 100-YEAR FEMA FLOODWAY.

WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
3.25	W15	41.958363	-77.604067	BROOKFIELD	0.013	-	-	0.000	-	-	TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
3.00	S19	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	10	41.958876	-77.606803	0.030	0.005	0.172	0.026	FLACT
3.25	S20	NORTH FORK COWANESQUE RIV.	PERENNIAL	25	41.958269	-77.604058	0.045	0.006	1.399	0.171	PIPE; BRDG; FLACT



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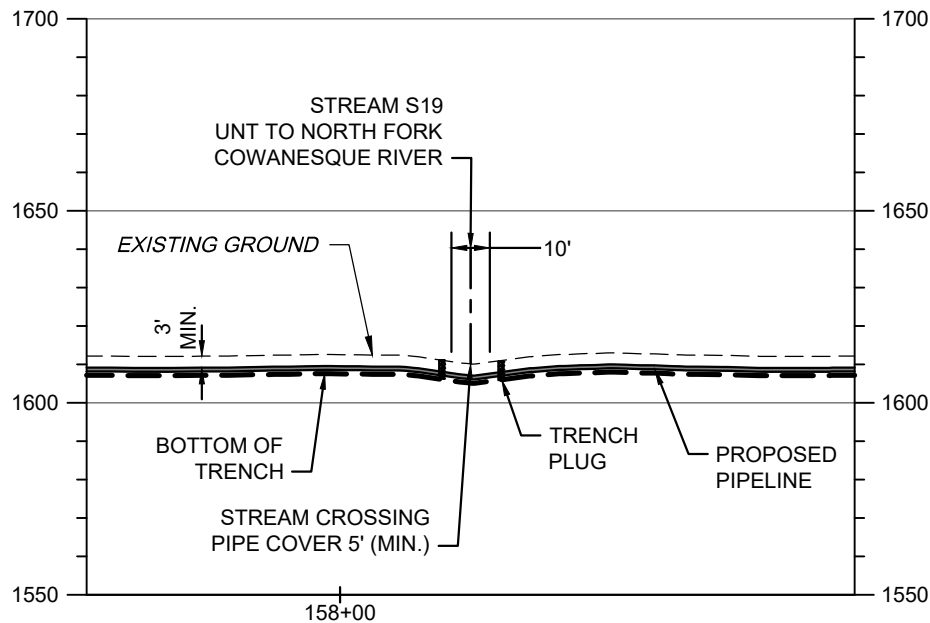
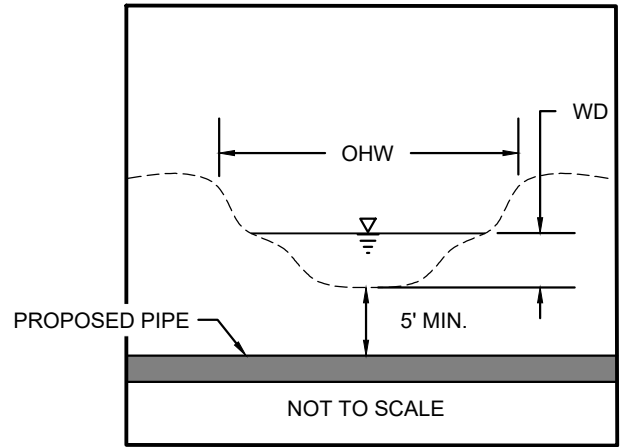
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SITE SPECIFICS
YM59 PIPELINE
BROOKFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 16.2

S19 BANK TO BANK WIDTH (OHW) = 10'
S19 WATER DEPTH (WD) = 2"



SCALE: HORIZ: 1" = 50'
VERT: 1" = 50'

STREAM S19 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



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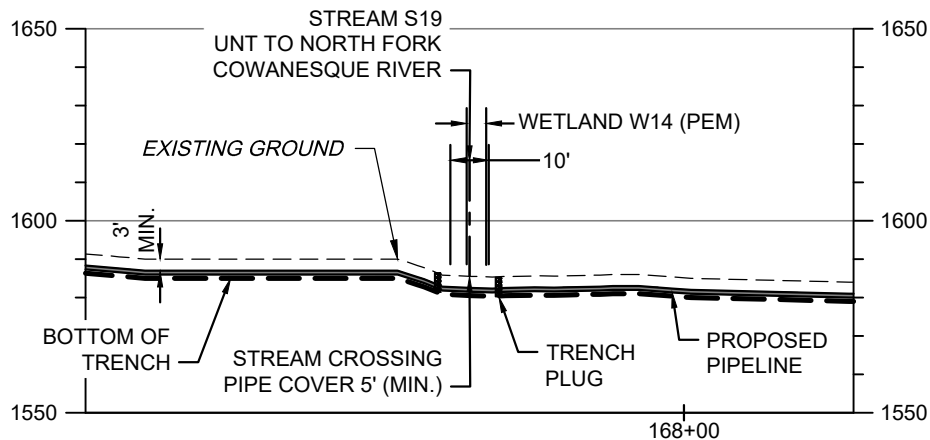
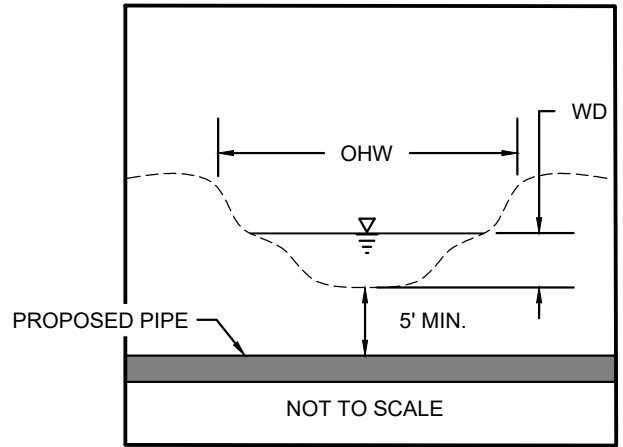
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TIOGA PATHWAY PROJECT
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YM59 PIPELINE
BROOKFIELD TWP, TIOGA COUNTY
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FIGURE 16A

S19 BANK TO BANK WIDTH (OHW) = 10'
S19 WATER DEPTH (WD) = 2'



SCALE:

STREAM S19 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



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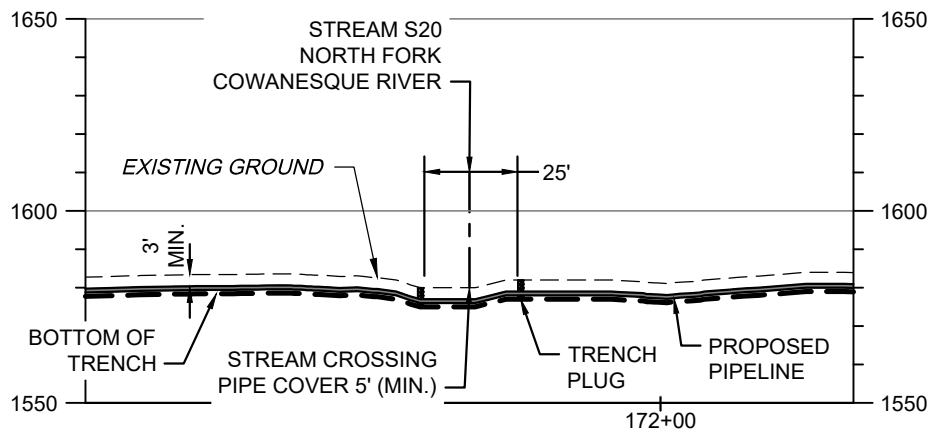
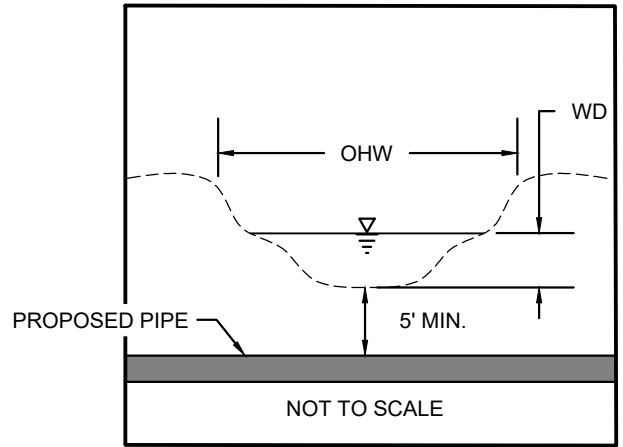
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YM59 PIPELINE
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FIGURE 16B

S20 BANK TO BANK WIDTH (OHW) = 25'
S20 WATER DEPTH (WD) = 12"



SCALE: HORIZ: 1" = 50'
VERT: 1" = 50'

STREAM S20 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



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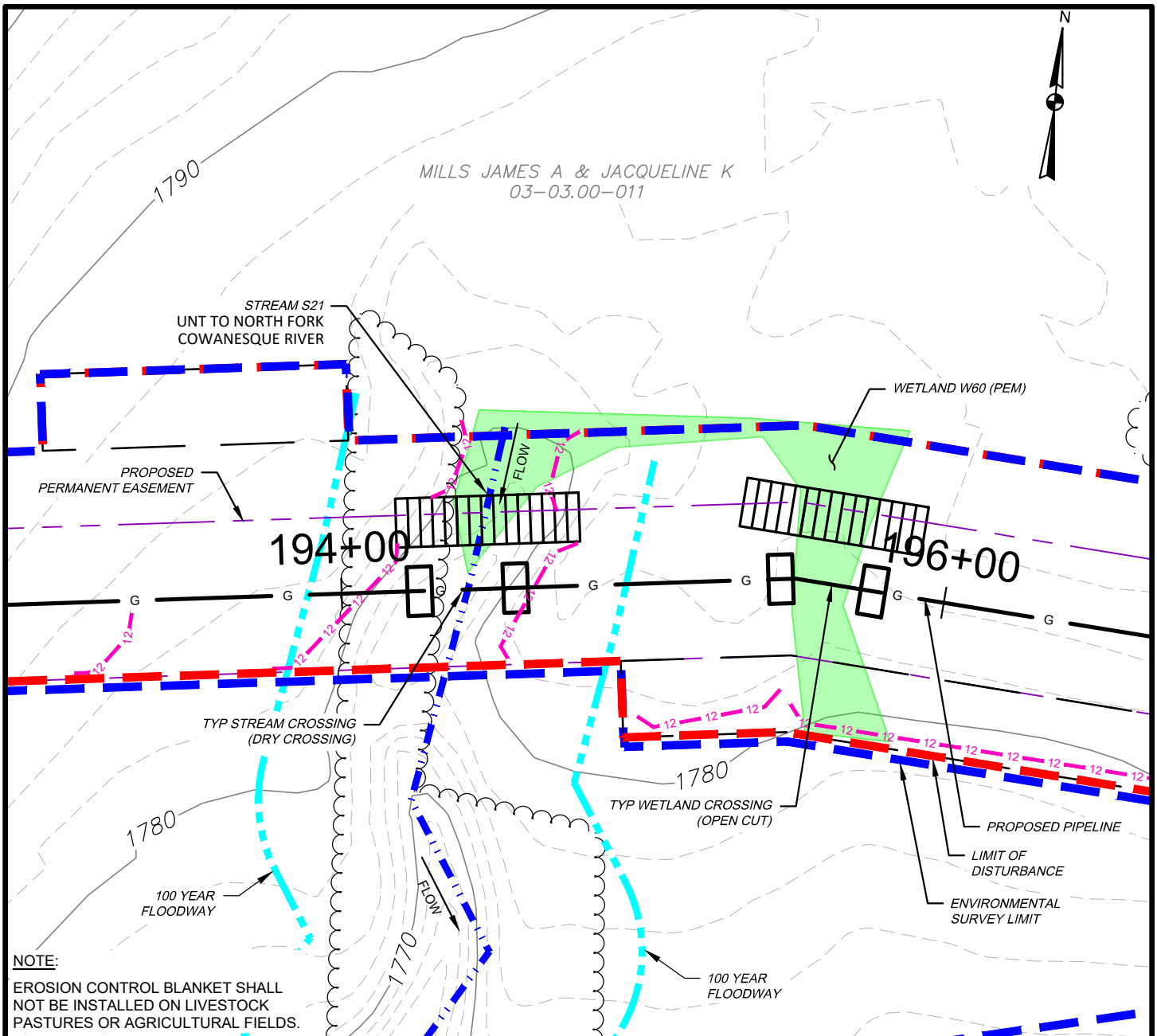
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FIGURE 16C



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
3.68	W60	41.961121	-77.590769	BROOKFIELD	0.090	-	-	0.004	-	-	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
3.68	S21	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	8	41.960571	-77.596576	0.013	0.002	0.168	0.026	FLACT; PIPE BRDG



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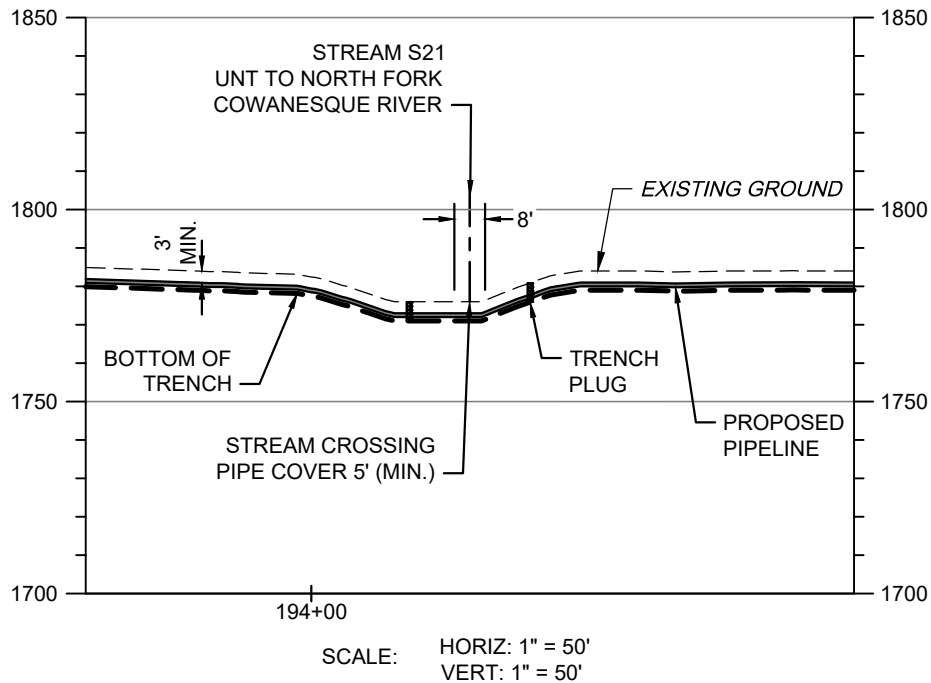
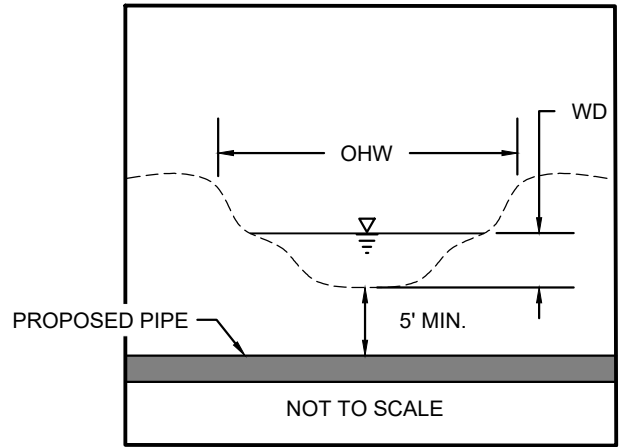
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SITE SPECIFICS
YM59 PIPELINE
BROOKFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 17

S21 BANK TO BANK WIDTH (OHW) = 8'
S21 WATER DEPTH (WD) = 2"



STREAM S21 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



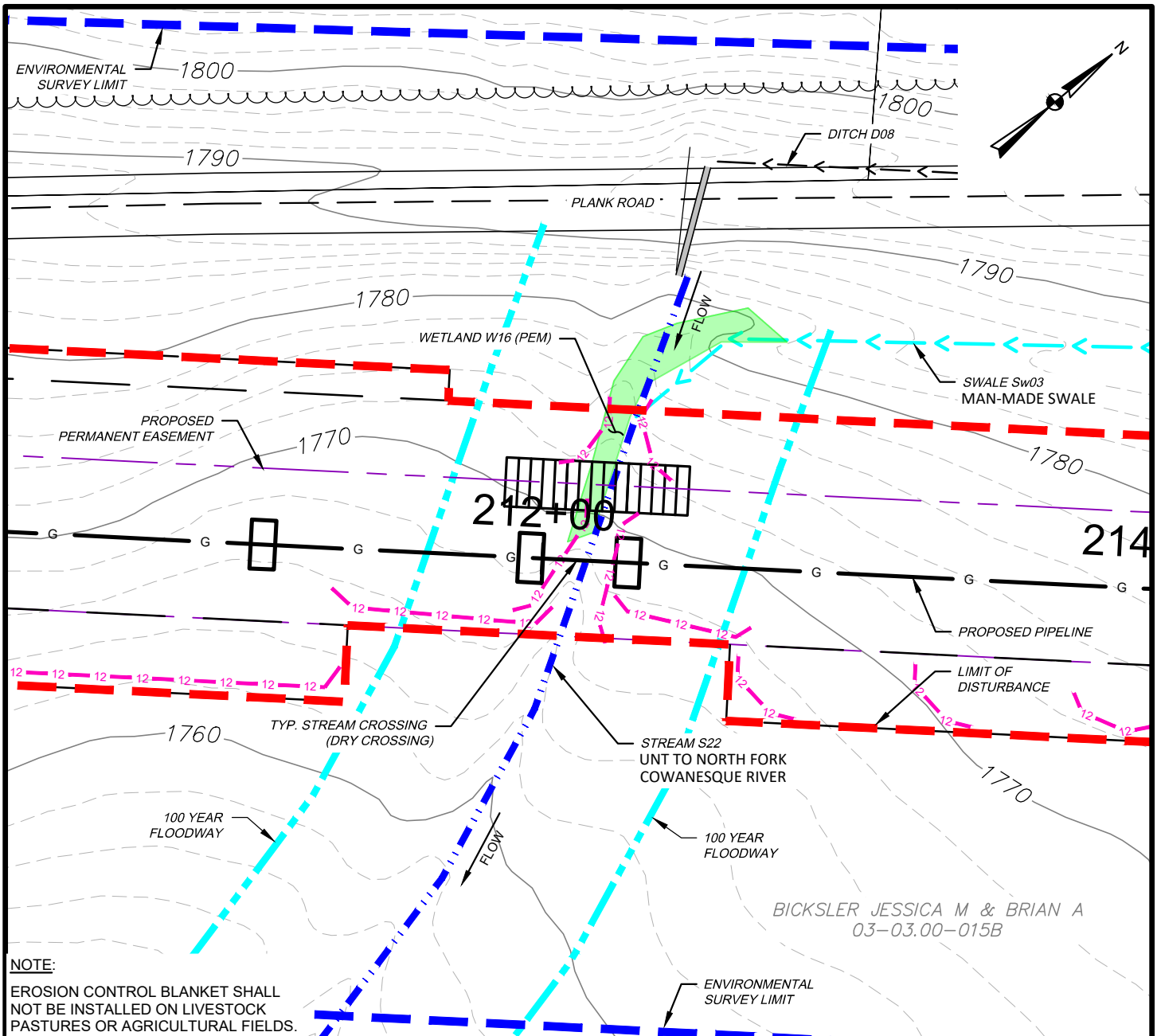
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FIGURE 17A	

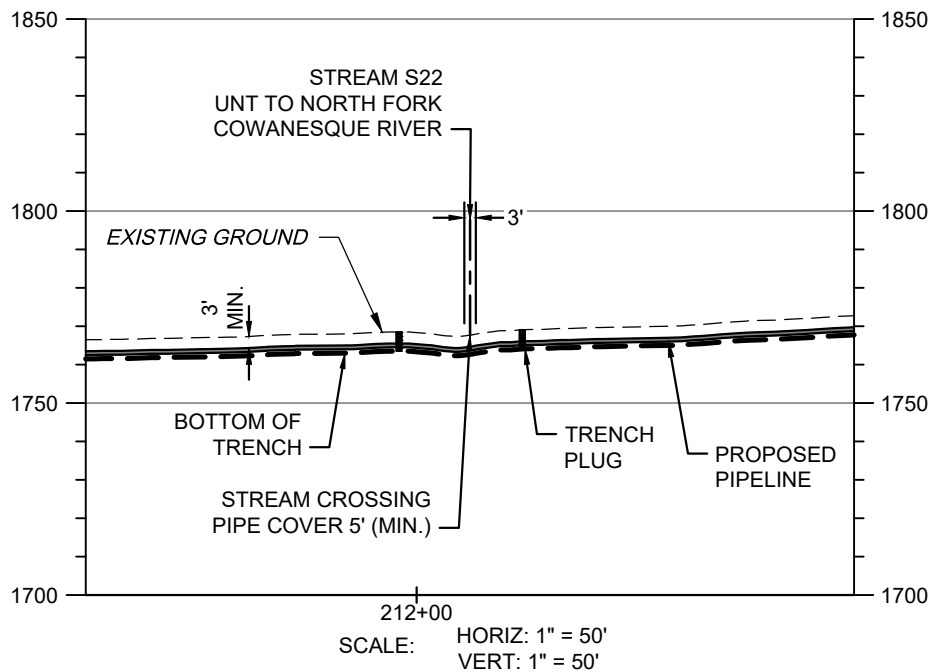
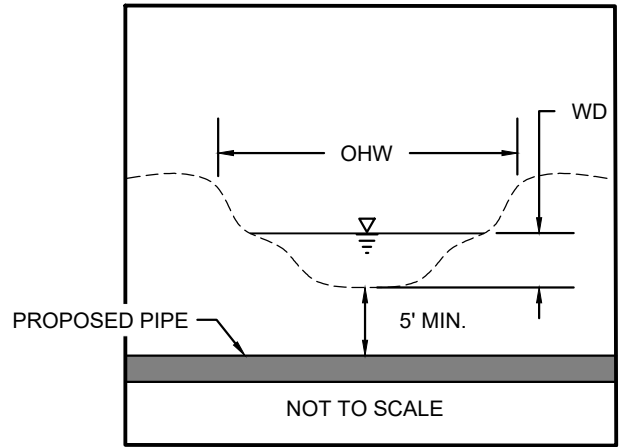


APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
4.02	W16	41.962623	-77.581196	BROOKFIELD	0.008	-	-	0.000	-	-	TMPWI; WTDIM

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
4.02	S22	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	3	41.961059	-77.590698	0.005	0.001	0.160	0.025	PIPE; BRDG; FLACT

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S22 BANK TO BANK WIDTH (OHW) = 3'
S22 WATER DEPTH (WD) = 1'



STREAM S22 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



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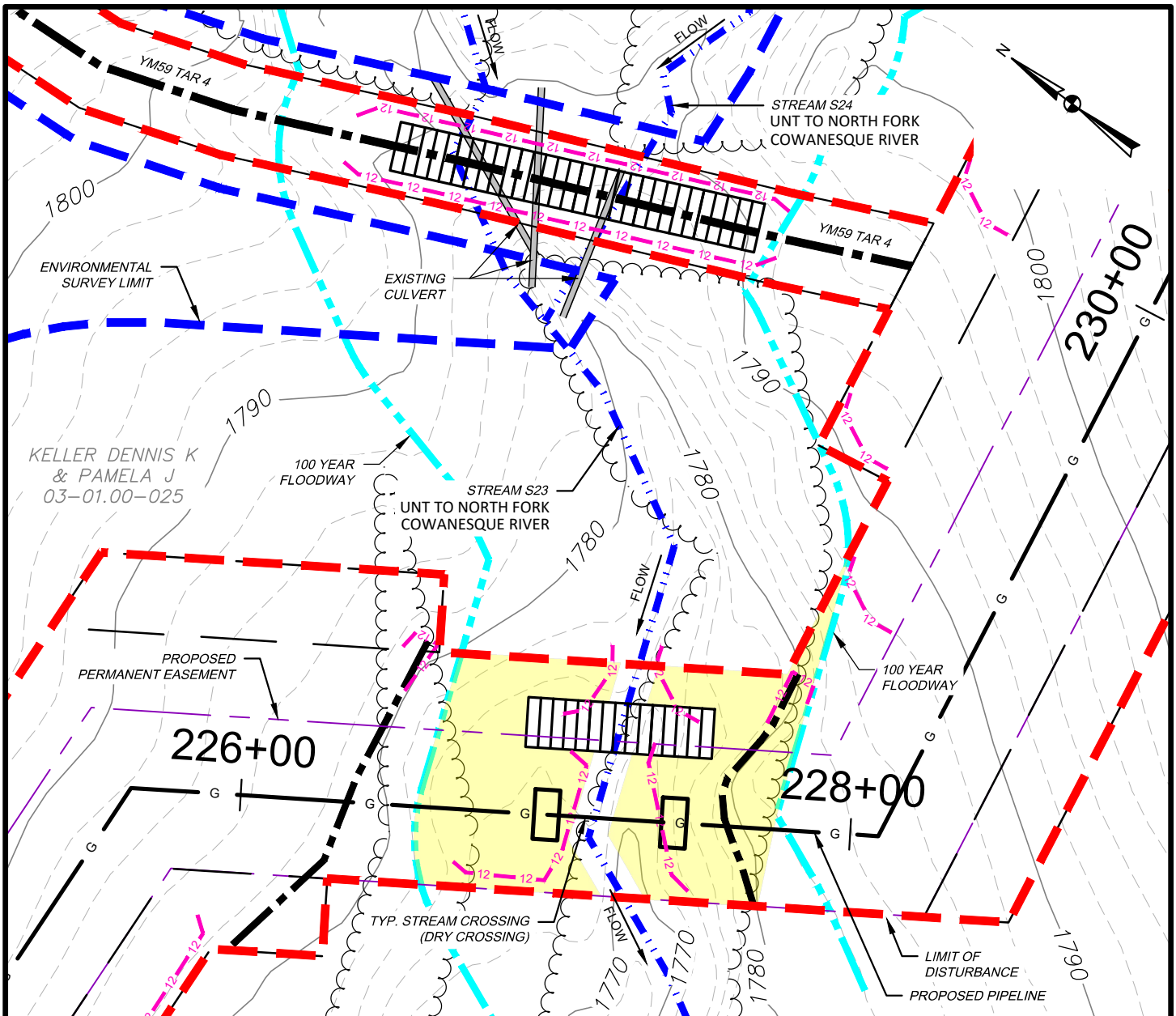
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FIGURE 18A



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
4.30	S23	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	12	41.962633	-77.585936	0.019	0.003	0.183	0.027	PIPE; BRDG; FLACT

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
YM59 TAR 4	S23	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	12	41.962633	-77.585936	0.010	0.000	0.115	0.000	EXISTING CULVERT; FLACT
YM59 TAR 4	S24	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	8	41.962671	-77.583404	0.006	0.000			EXISTING CULVERT; FLACT



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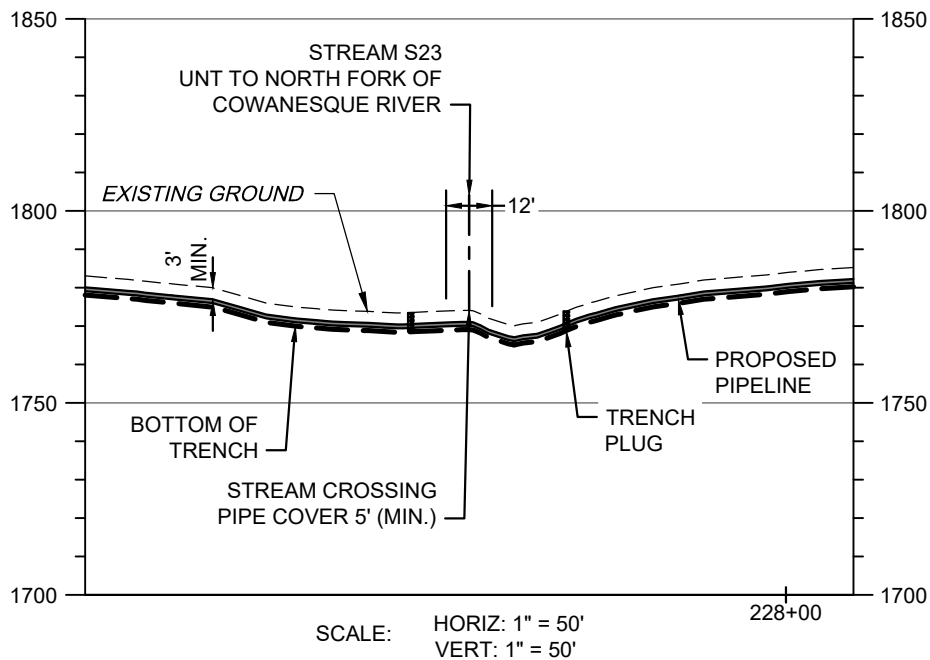
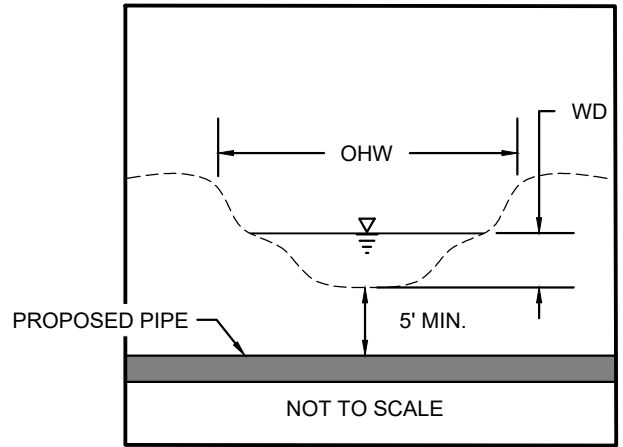
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FIGURE 19

S23 BANK TO BANK WIDTH (OHW) = 12'
S23 WATER DEPTH (WD) = 3"



STREAM S23 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



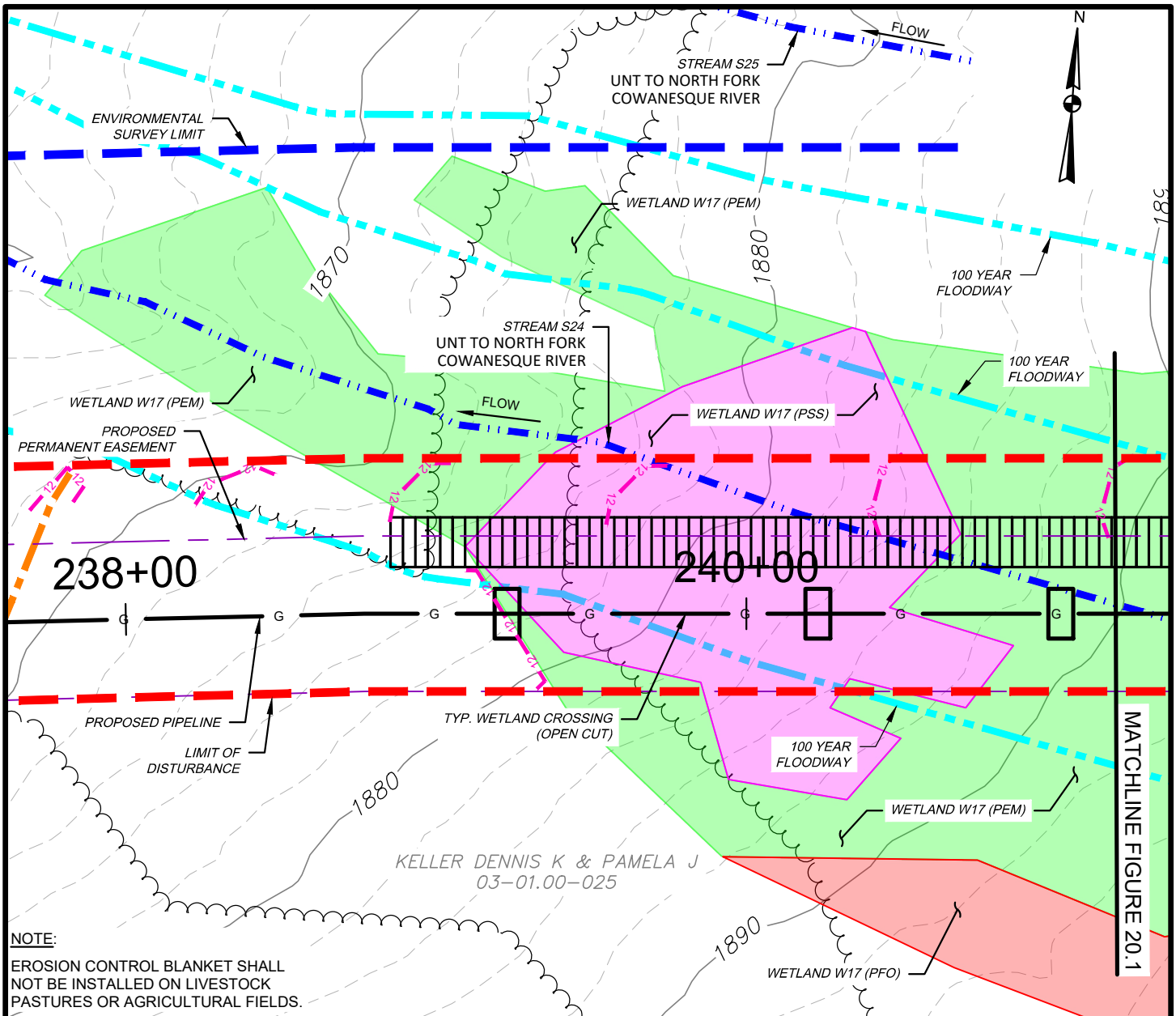
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FIGURE 19A	



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
4.54	W17	41.958363	-77.604067	BROOKFIELD	0.275	0.200	0.119	0.038	0.029	0.091	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
4.57	S24	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	8	41.962671	-77.583404	0.041	0.007	0.565	0.086	PIPE; BRDG; FLACT
4.64	S25	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	3	41.962796	-77.57982	0.000	0.000	0.094	0.000	FLACT



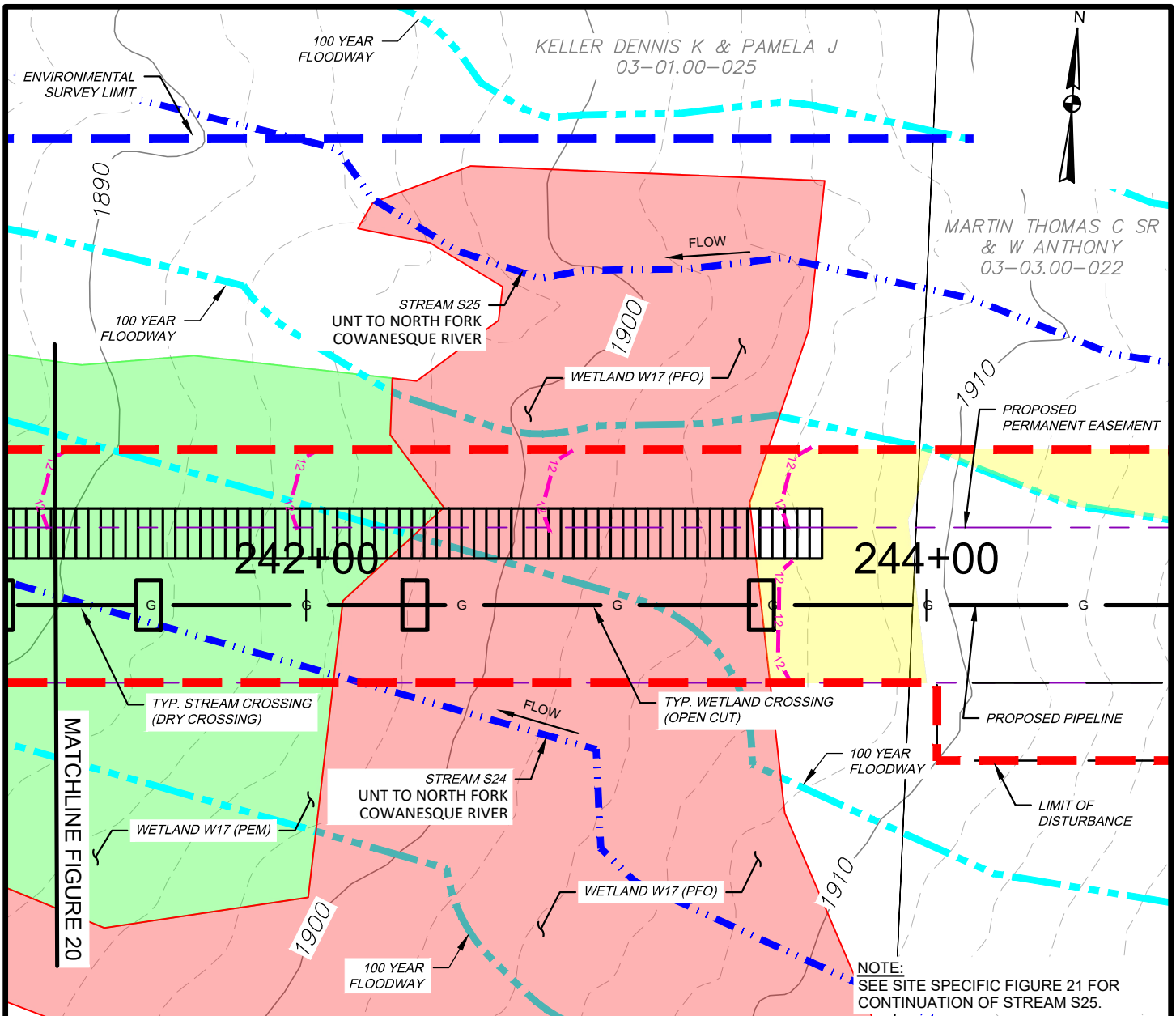
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FIGURE 20



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
4.54	W17	41.958363	-77.604067	BROOKFIELD	0.275	0.200	0.119	0.038	0.029	0.091	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
4.57	S24	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	8	41.962671	-77.583404	0.041	0.007	0.565	0.086	PIPE; BRDG; FLACT
4.64	S25	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	3	41.962796	-77.57982	0.000	0.000	0.094	0.000	FLACT



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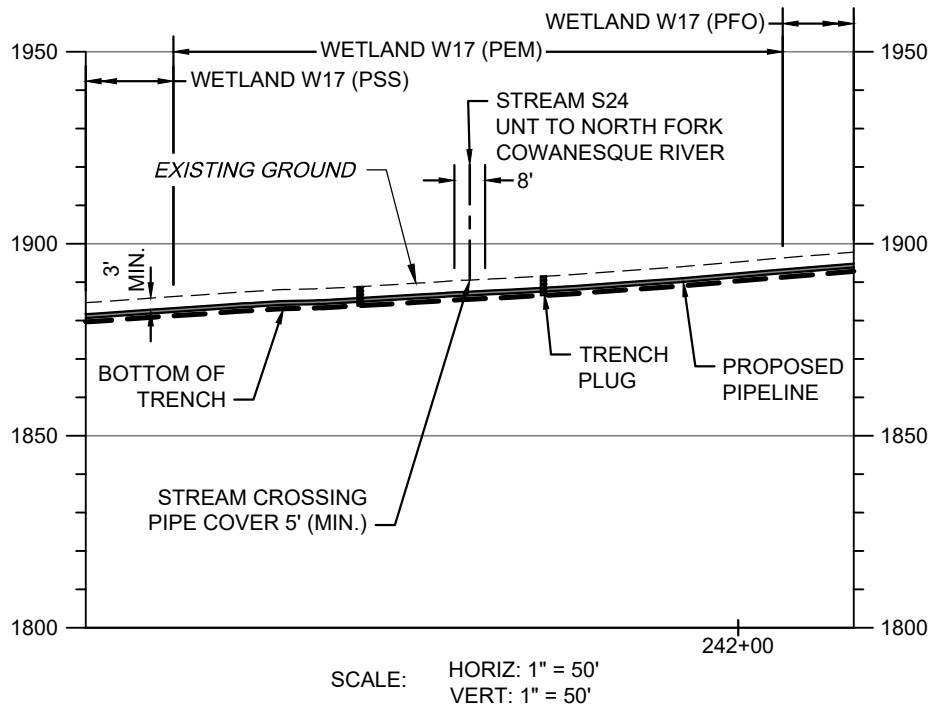
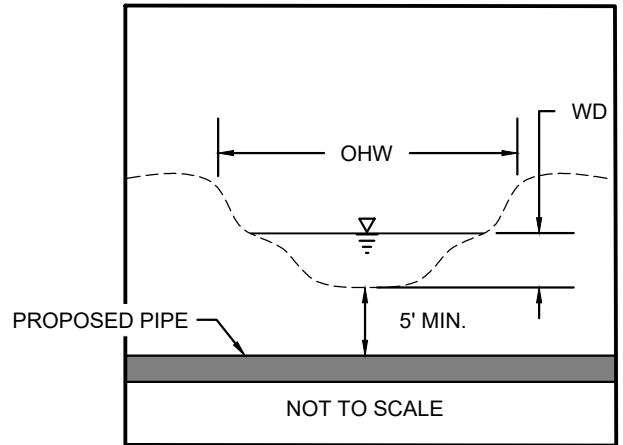
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FIGURE 20.1

S24 BANK TO BANK WIDTH (OHW) = 8'
S24 WATER DEPTH (WD) = 2"



STREAM S24 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



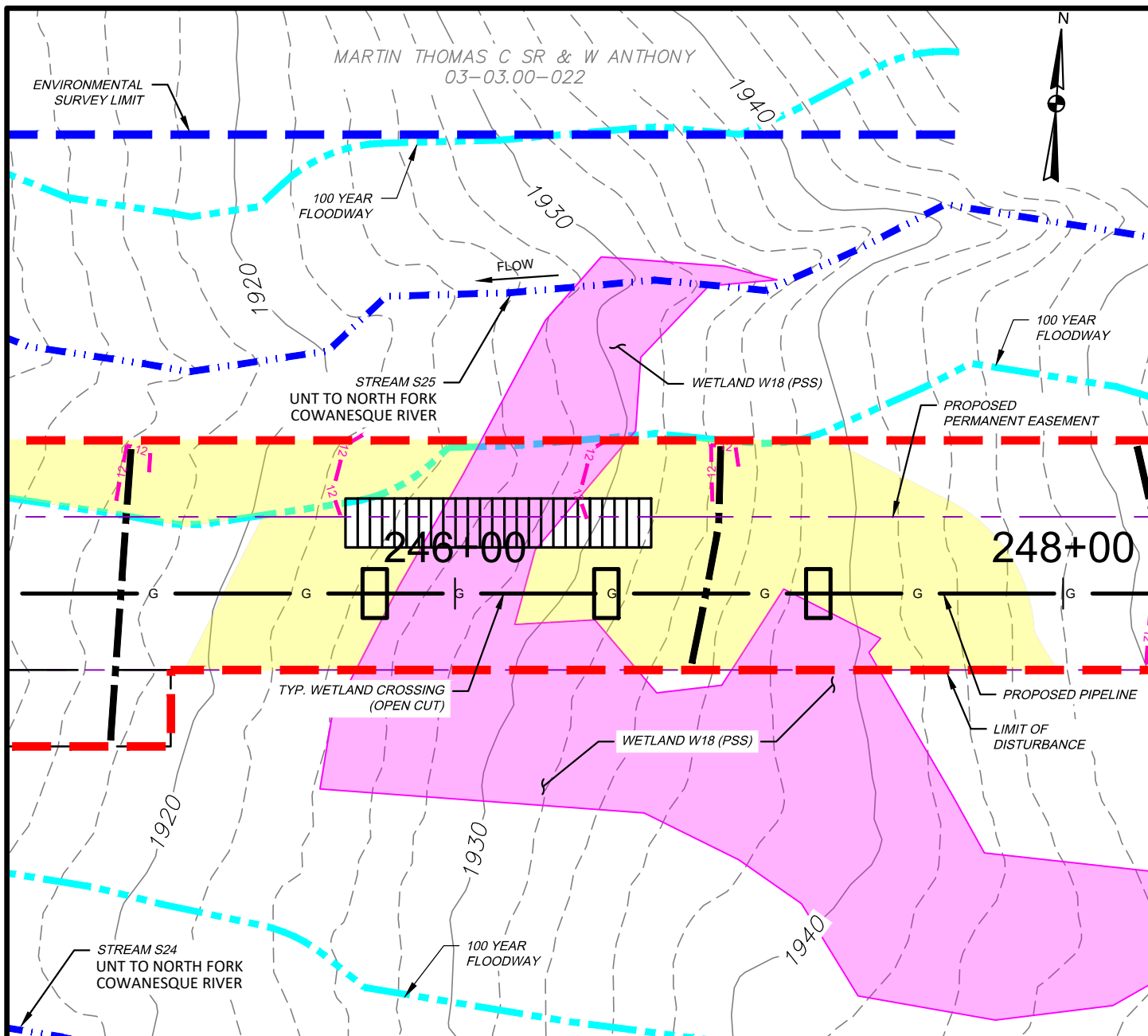
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FIGURE 20A



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
4.65	W18	41.962702	-77.579489	BROOKFIELD	-	0.094	-	-	0.011	-	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
4.64	S25	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	3	41.962796	-77.57982	0.000	0.000	0.094	0.000	FLACT



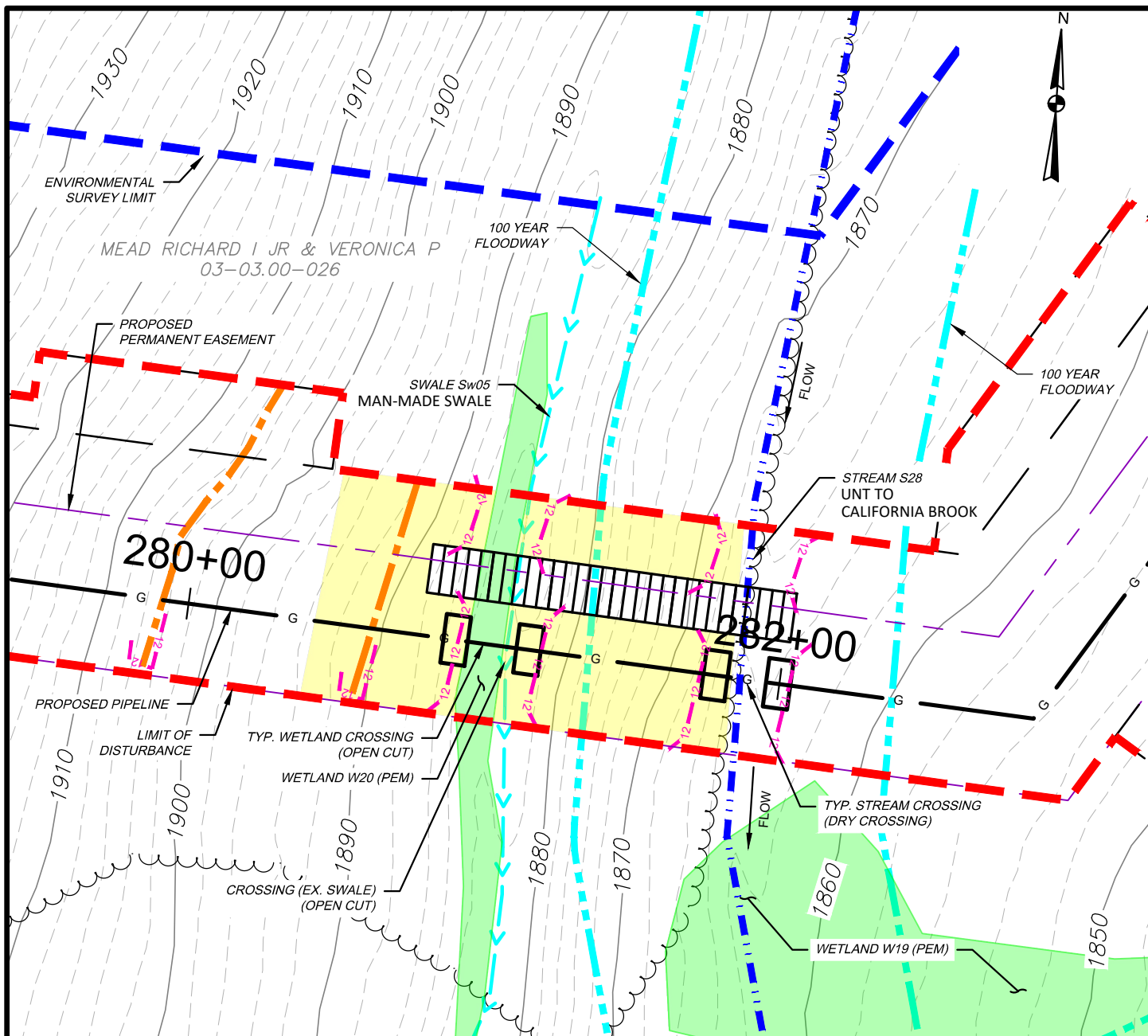
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FIGURE 21



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
5.34	W20	41.963814	-77.567067	BROOKFIELD	0.017	-	-	0.003	-	-	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
5.34	S28	UNT TO CALIFORNIA BROOK	PERENNIAL	6	41.963797	-77.566758	0.009	0.001	0.159	0.024	PIPE; BRDG; FLACT



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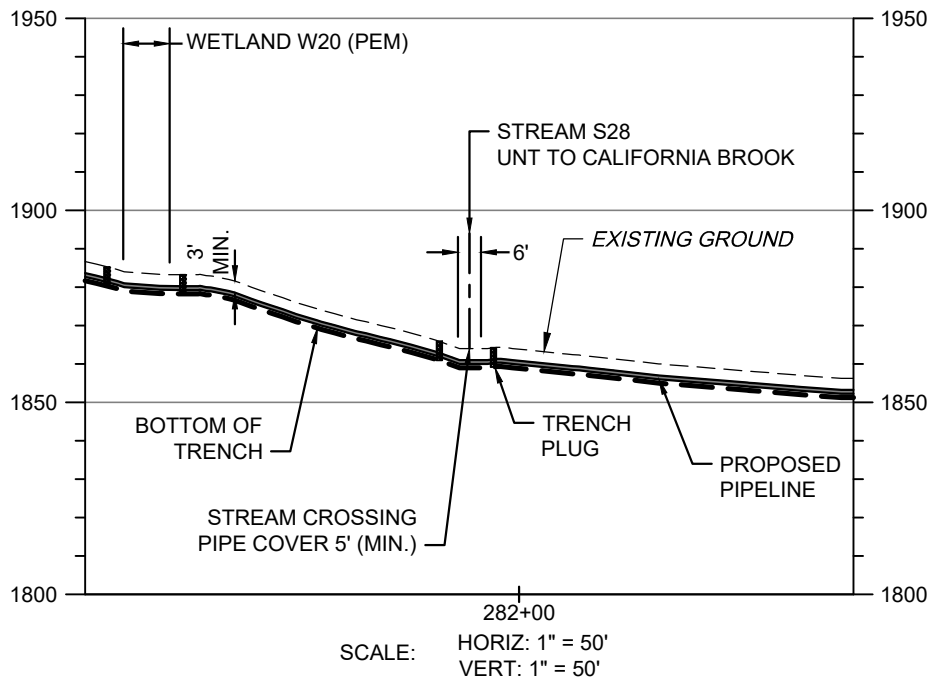
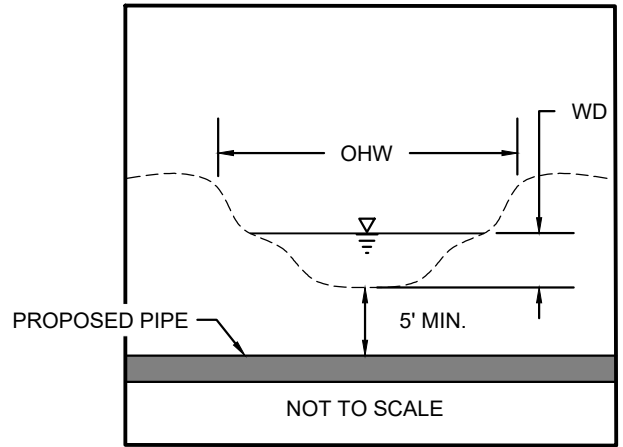
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FIGURE 22

S28 BANK TO BANK WIDTH (OHW) = 6'
S28 WATER DEPTH (WD) = 1"



STREAM S28 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



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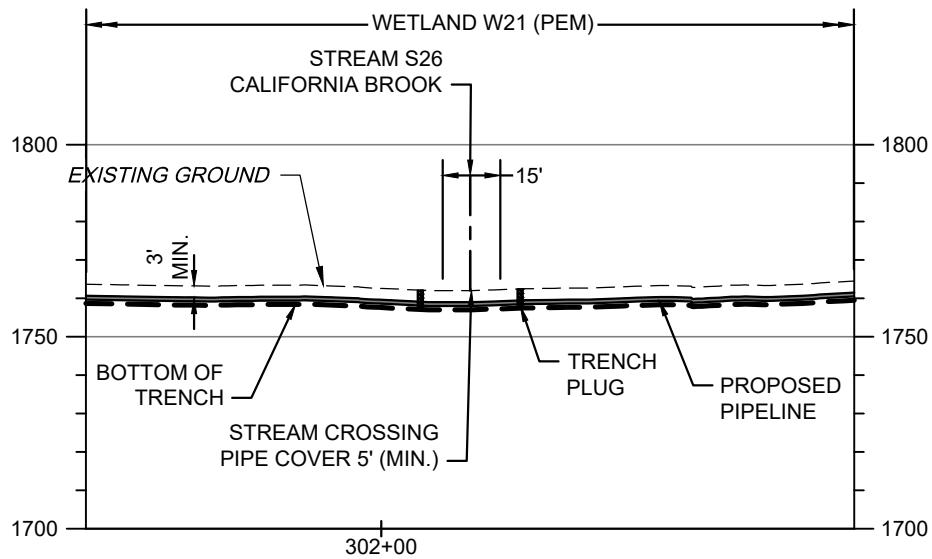
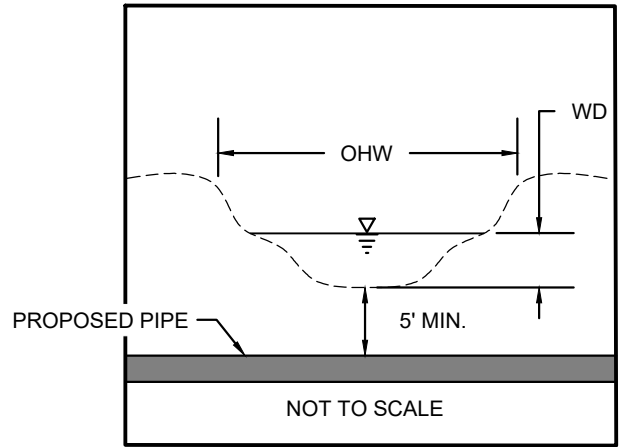
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FIGURE 22A	

S26 BANK TO BANK WIDTH (OHW) = 15'
S26 WATER DEPTH (WD) = 3"



SCALE: HORIZ: 1" = 50'
VERT: 1" = 50'

STREAM S26 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



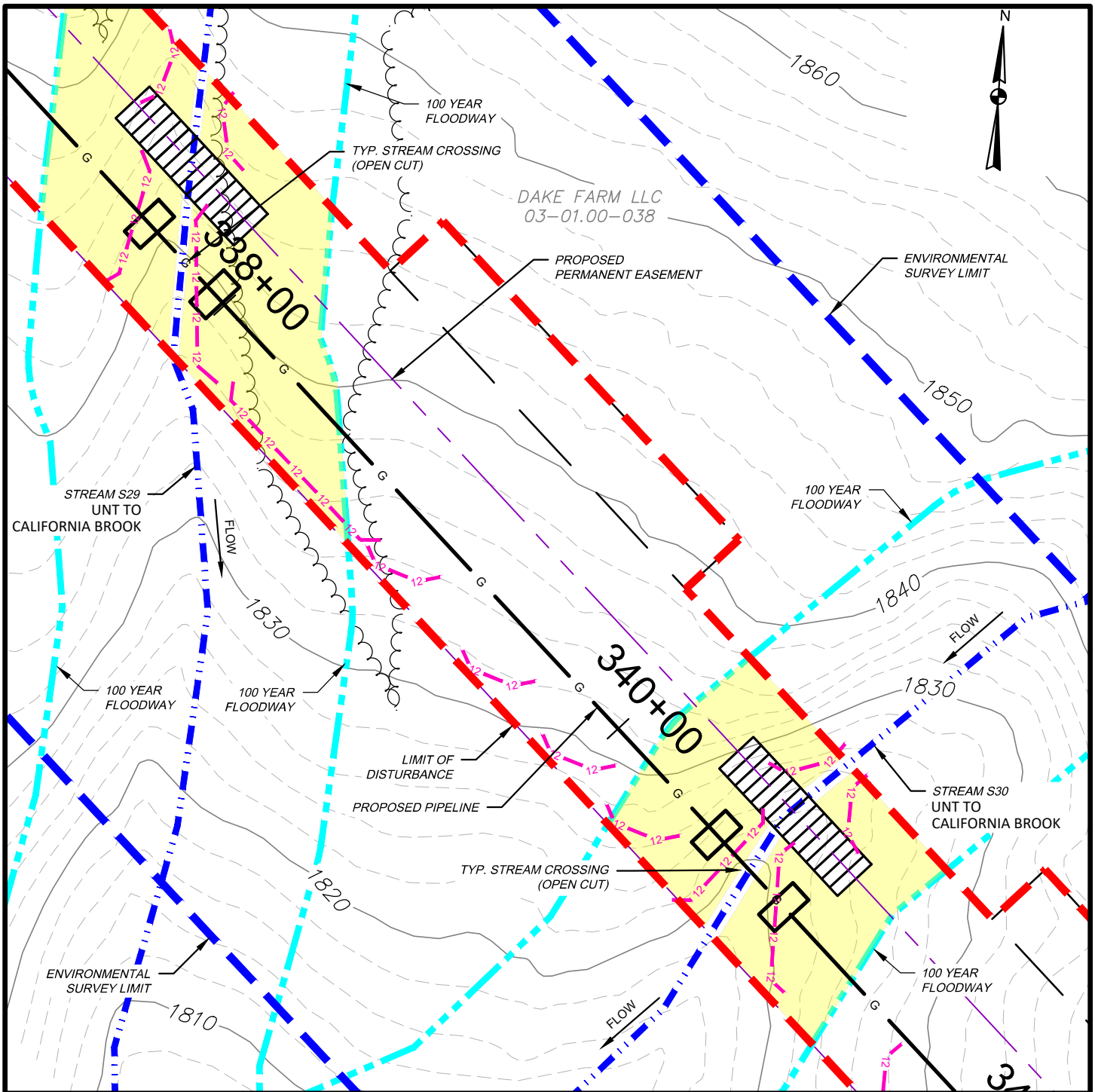
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FIGURE 23A	



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
6.40	S29	UNT TO CALIFORNIA BROOK	EPHERMERAL	4	41.965114	-77.549977	0.008	0.001	0.270	0.035	PIPE; BRDG; FLACT
6.45	S30	UNT TO CALIFORNIA BROOK	EPHERMERAL	6	41.964569	-77.549209	0.009	0.001	0.162	0.025	PIPE; BRDG; FLACT



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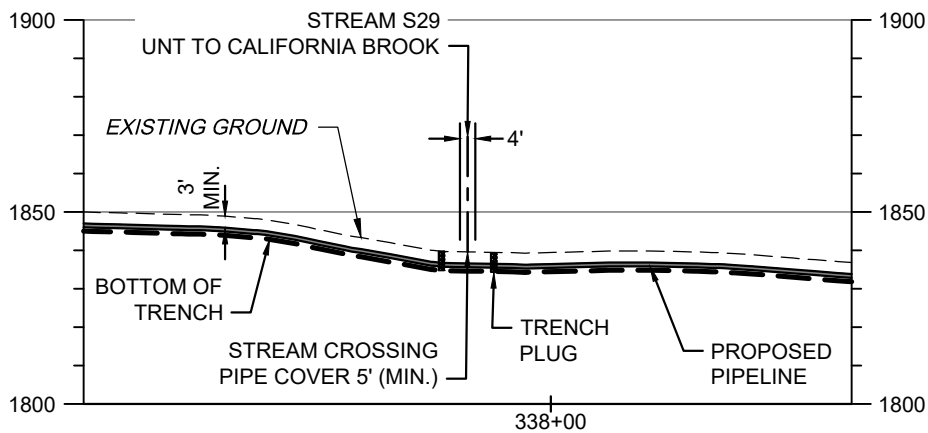
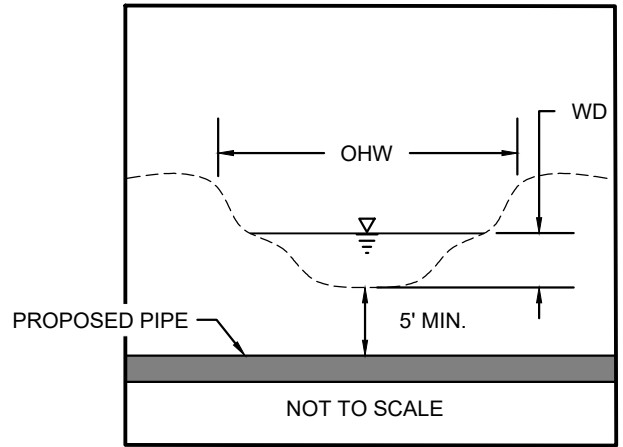
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FIGURE 24

S29 BANK TO BANK WIDTH (OHW) = 4'
S29 WATER DEPTH (WD) = 0"



SCALE: HORIZ: 1" = 50'
VERT: 1" = 50'

STREAM S29 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



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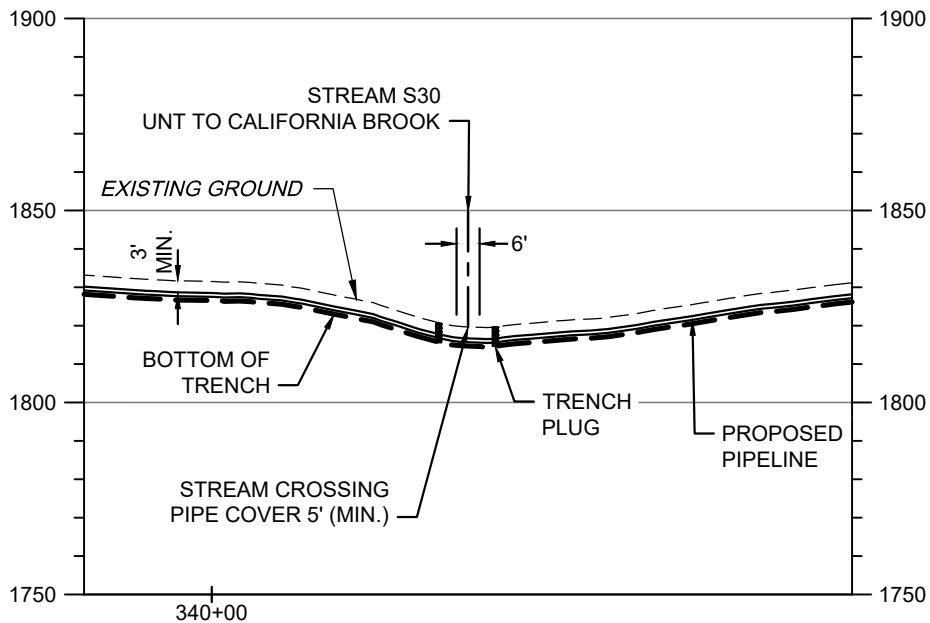
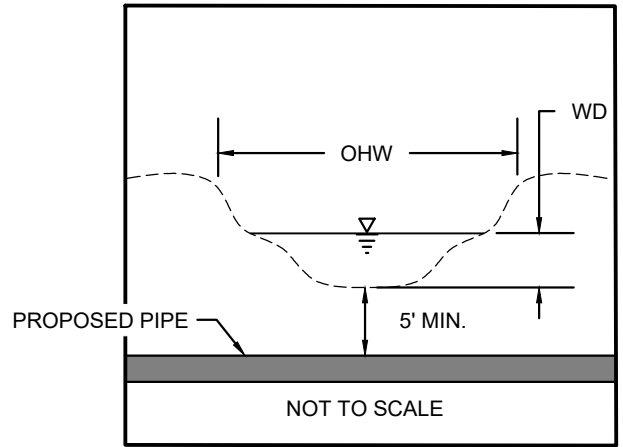
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TIOGA PATHWAY PROJECT
SITE SPECIFICS
YM59 PIPELINE
BROOKFIELD TWP, TIOGA COUNTY
SCALE: AS NOTED

DATE:	11/01/2024
PROJECT NO.:	212C-BF-00493
DESIGNED BY:	BC
DRAWN BY:	BC / JZ
CHECKED BY:	RD
SHEET:	2 OF 3
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FIGURE 24A	

S30 BANK TO BANK WIDTH (OHW) = 6'
S30 WATER DEPTH (WD) = 0"



SCALE: HORIZ: 1" = 50'
VERT: 1" = 50'

STREAM S30 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



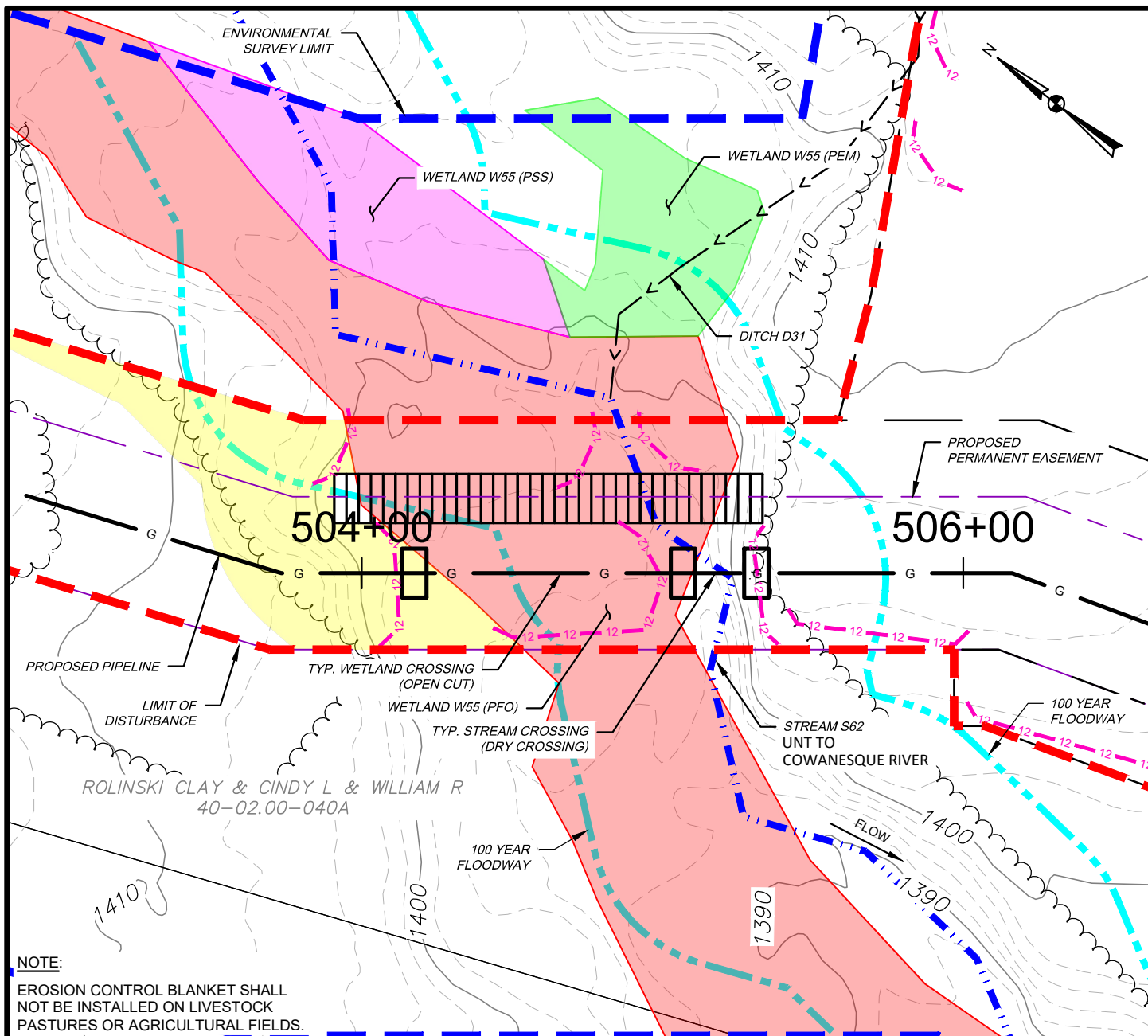
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FIGURE 24B	



NOTE:

EROSION CONTROL BLANKET SHALL NOT BE INSTALLED ON LIVESTOCK PASTURES OR AGRICULTURAL FIELDS.

WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
9.56	W55	41.931374	-77.518473	WESTFIELD	-	-	0.011	-	-	0.057	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
9.56	S62	UNT TO COWANESQUE RIV.	PERENNIAL	10	41.931261	-77.518355	0.018	0.003	0.251	0.030	PIPE; BRDG; FLACT



TETRA TECH

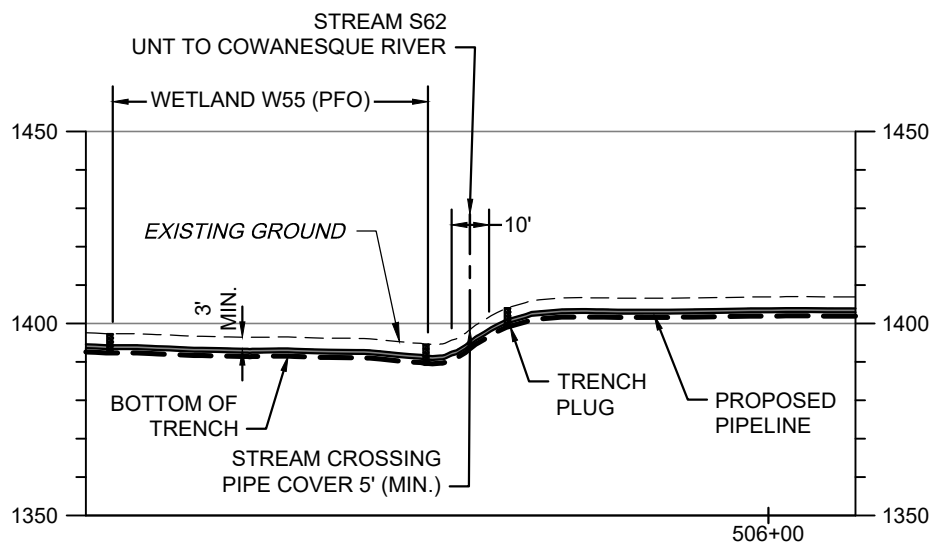
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SITE SPECIFICS
YM59 PIPELINE
WESTFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE: 11/01/2024
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FIGURE 25

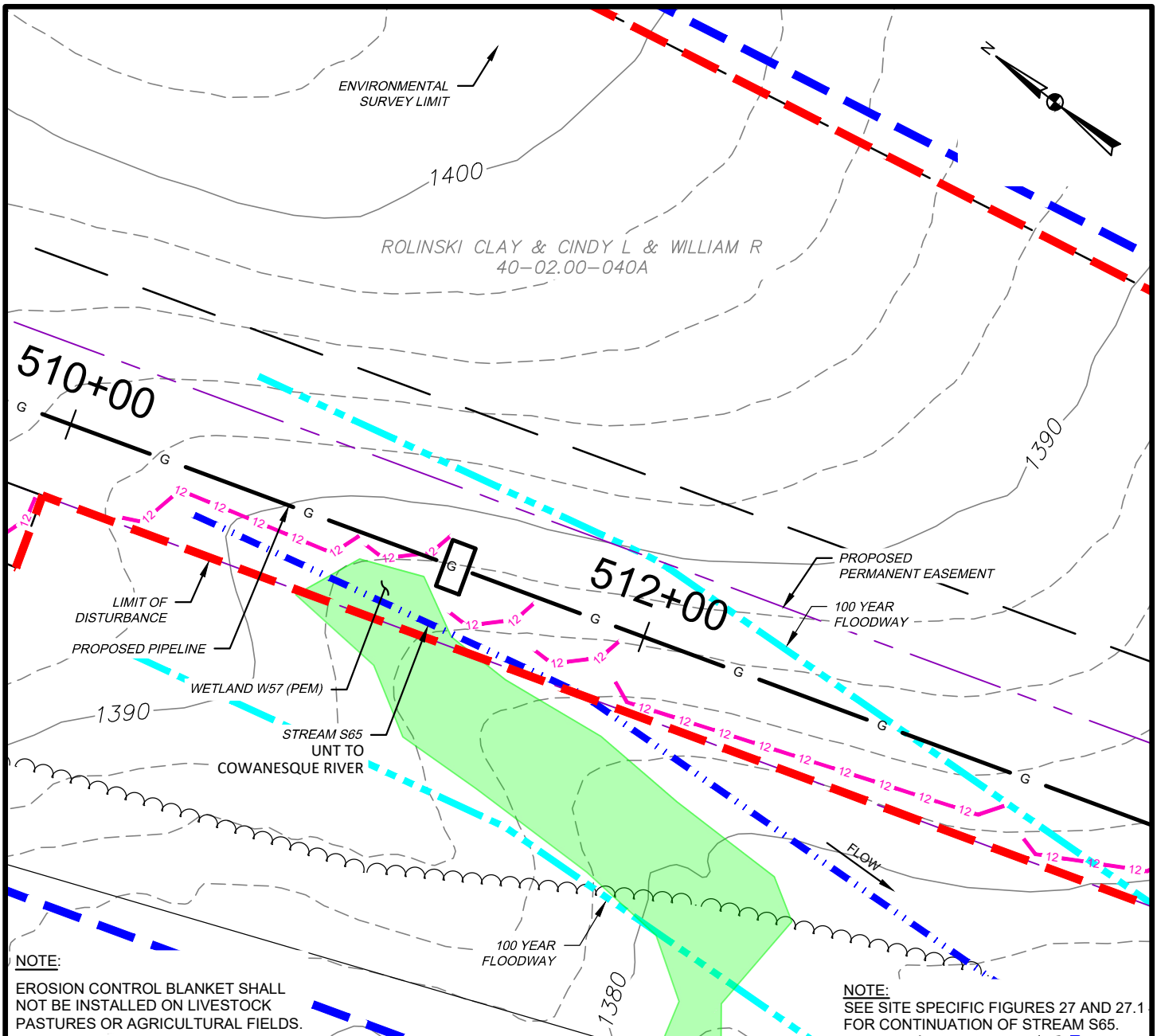
The diagram illustrates a cross-section of a proposed pipe installation. A dashed line represents the original ground surface, which is irregular. A solid horizontal line represents the proposed pipe, which is positioned below the ground surface. The horizontal distance between two vertical lines is labeled "OHW". The vertical distance from the original ground surface to the proposed pipe is labeled "WD". The vertical distance from the proposed pipe to the bottom of the pipe is labeled "5' MIN.". The text "PROPOSED PIPE" is written with an arrow pointing to the pipe. The text "NOT TO SCALE" is written at the bottom.



STREAM S62 - PIPELINE CROSSING PROFILE

NATIONAL FUEL GAS SUPPLY CORPORATION
TIOGA PATHWAY PROJECT
SITE SPECIFICS
YM59 PIPELINE
WESTFIELD TWP, TIOGA COUNTY
SCALE: AS NOTED

FIGURE 25A



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
9.70	W57	41.929735	-77.517648	WESTFIELD	0.016	-	-	0.000	-	-	TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
9.70	S65	UNT TO COWANESQUE RIV.	EPHEMERAL	1	41.927439	-77.516767	0.003	0.000	0.602	0.005	BRDG; FLACT



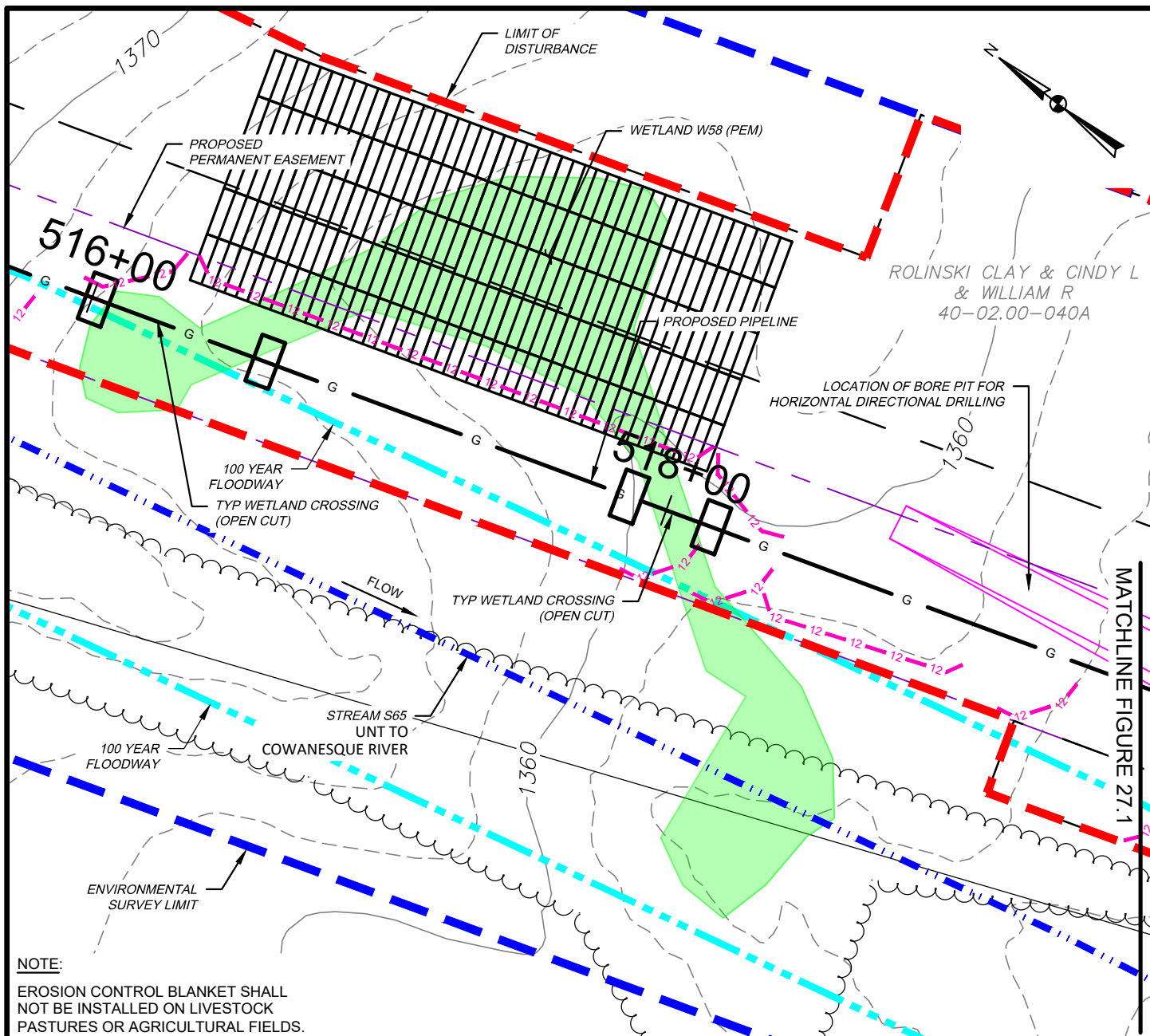
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SITE SPECIFICS
YM59 PIPELINE
WESTFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE: 11/01/2024
PROJECT NO.: 212C-BF-00493
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DRAWN BY: BC / JZ
CHECKED BY: RD
SHEET: 1 OF 1
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FIGURE 26



NOTE:

EROSION CONTROL BLANKET SHALL NOT BE INSTALLED ON LIVESTOCK PASTURES OR AGRICULTURAL FIELDS.

WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
9.80	W58	41.928311	-77.516974	WESTFIELD	0.170	-	-	0.014	-	-	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
9.70	S65	UNT TO COWANESQUE RIV.	EPHEMERAL	1	41.927439	-77.516767	0.003	0.000	0.602	0.005	BRDG; FLACT



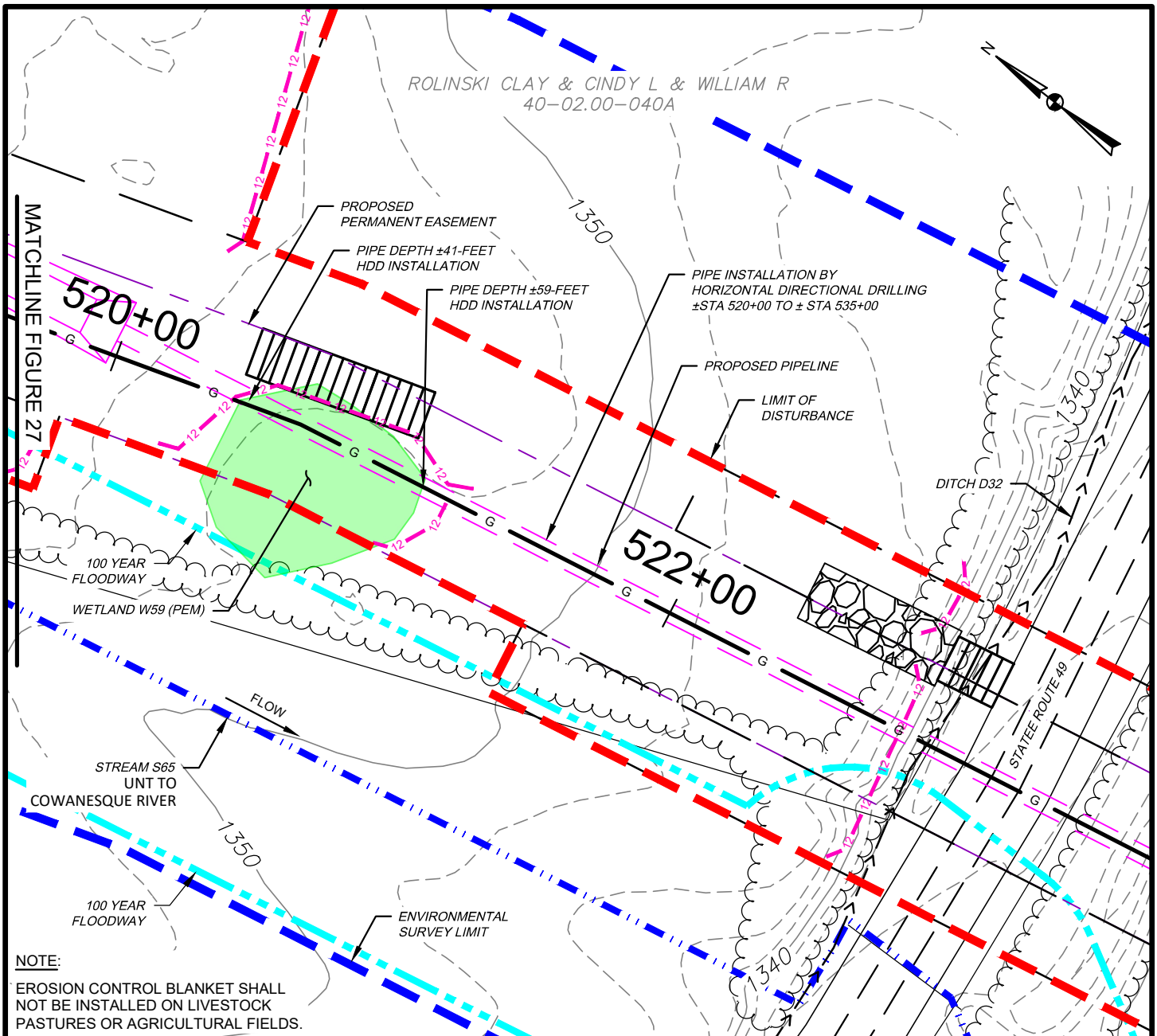
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SITE SPECIFICS
YM59 PIPELINE
WESTFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
9.85	W59	41.927243	-77.516526	WESTFIELD	0.049	-	-	0.005	-	-	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
9.70	S65	UNT TO COWANESQUE RIV.	EPHEMERAL	1	41.927439	-77.516767	0.003	0.000	0.602	0.005	BRDG; FLACT



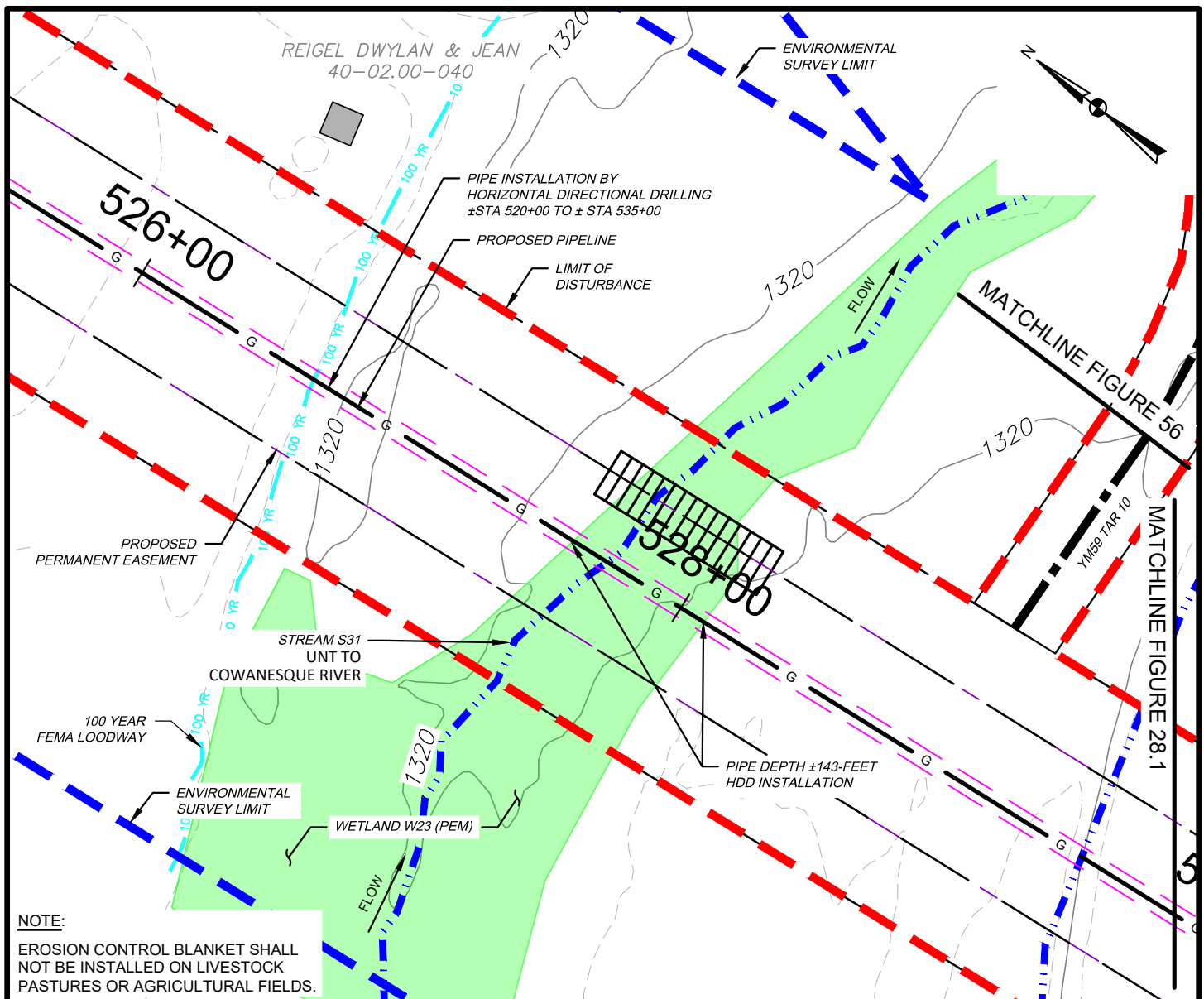
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SITE SPECIFICS
YM59 PIPELINE
WESTFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE: 11/01/2024
PROJECT NO.: 212C-BF-00493
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CHECKED BY: RD
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FIGURE 27.1



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
9.98	S31	UNT TO COWANESQUE RIV.	PERENNIAL	5	41.925356	-77.515612	0.012	0.000			PIPE; BRDG; FLACT
10.04	S32	COWANESQUE RIVER	PERENNIAL	59	41.924832	-77.515902	0.132	0.003	1.666	0.036	PIPE; BRDG; FLACT
10.10	S33	UNT TO COWANESQUE RIV.	EPHEMERAL	12	41.923983	-77.515853	0.025	0.001			BRDG; FLACT

WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
10.00	W23	41.925353	-77.516037	WESTFIELD	0.104	-	-	0.002	-	-	PIPE; TMPWI; WTDIM



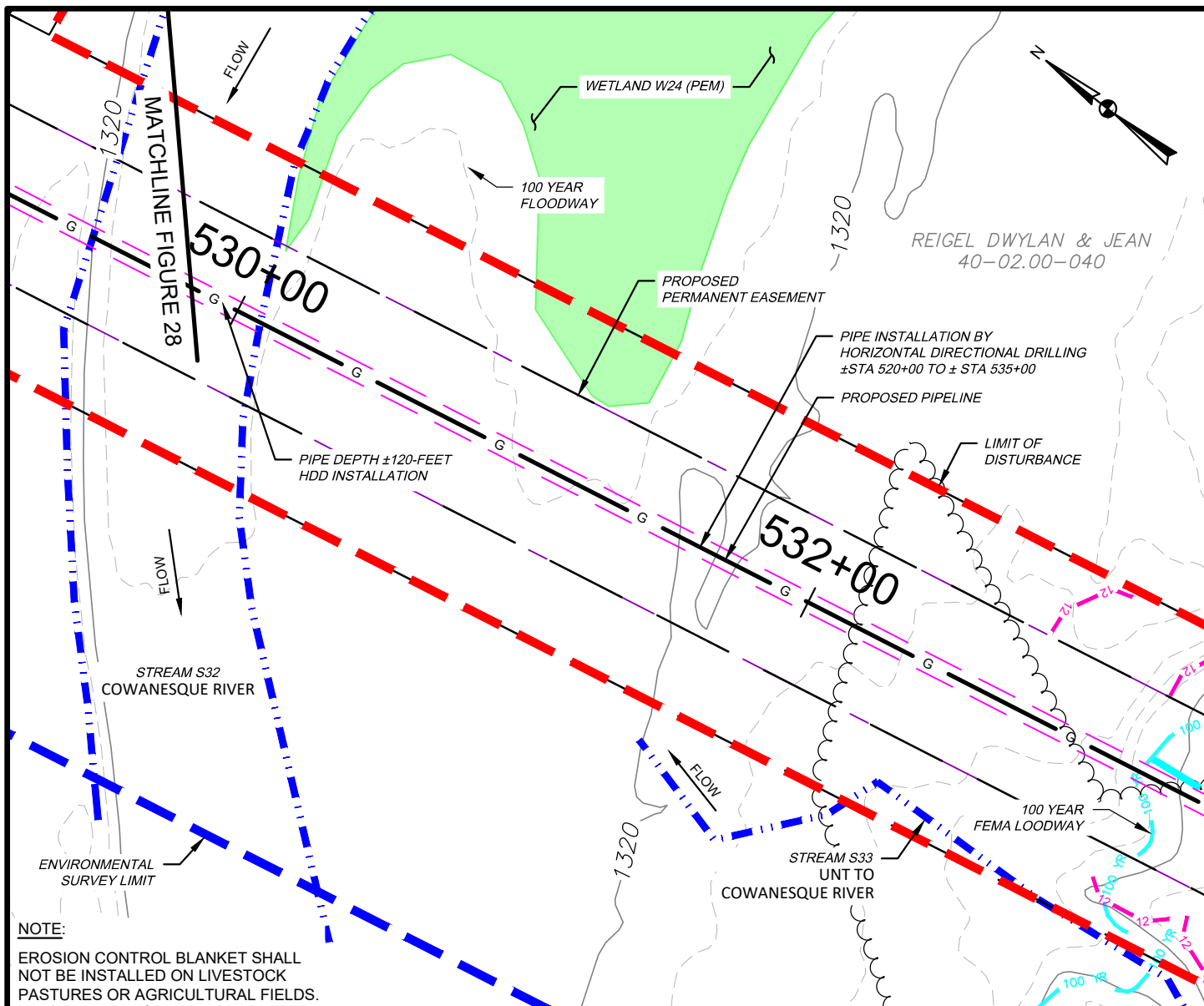
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WESTFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 28



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
9.98	S31	UNT TO COWANESQUE RIV.	PERENNIAL	5	41.925356	-77.515612	0.012	0.000			PIPE; BRDG; FLACT
10.04	S32	COWANESQUE RIVER	PERENNIAL	59	41.924832	-77.515902	0.132	0.003	1.666	0.036	PIPE; BRDG; FLACT
10.10	S33	UNT TO COWANESQUE RIV.	EPHEMERAL	12	41.923983	-77.515853	0.025	0.001			BRDG; FLACT

WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
10.05	W24	41.924788	-77.51574	WESTFIELD	0.021	-	-	0.000	-	-	TMPWI; WTDIM



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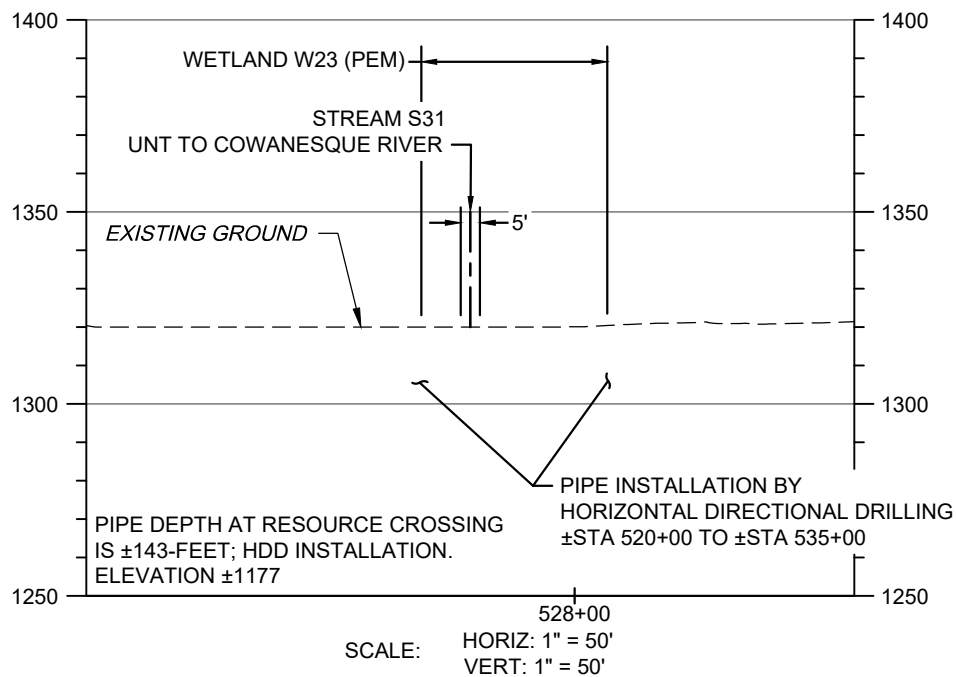
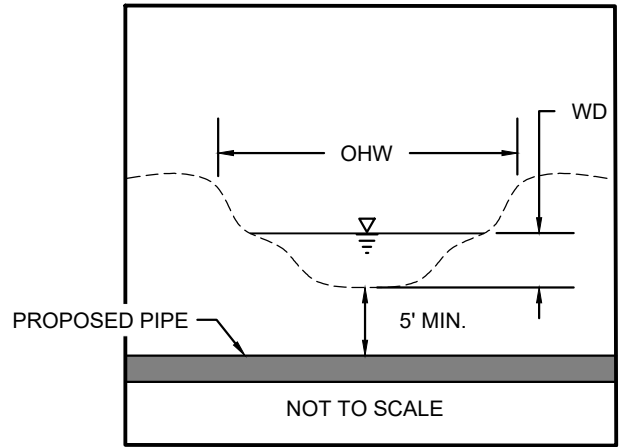
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WESTFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE: 11/01/2024
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FIGURE 28.1

S31 BANK TO BANK WIDTH (OHW) = 5'
S31 WATER DEPTH (WD) = 5'



STREAM S31 - PIPELINE CROSSING PROFILE

NOTES:

1. STREAM CROSSING WILL BE BY HORIZONTAL DIRECTIONAL DRILLING.



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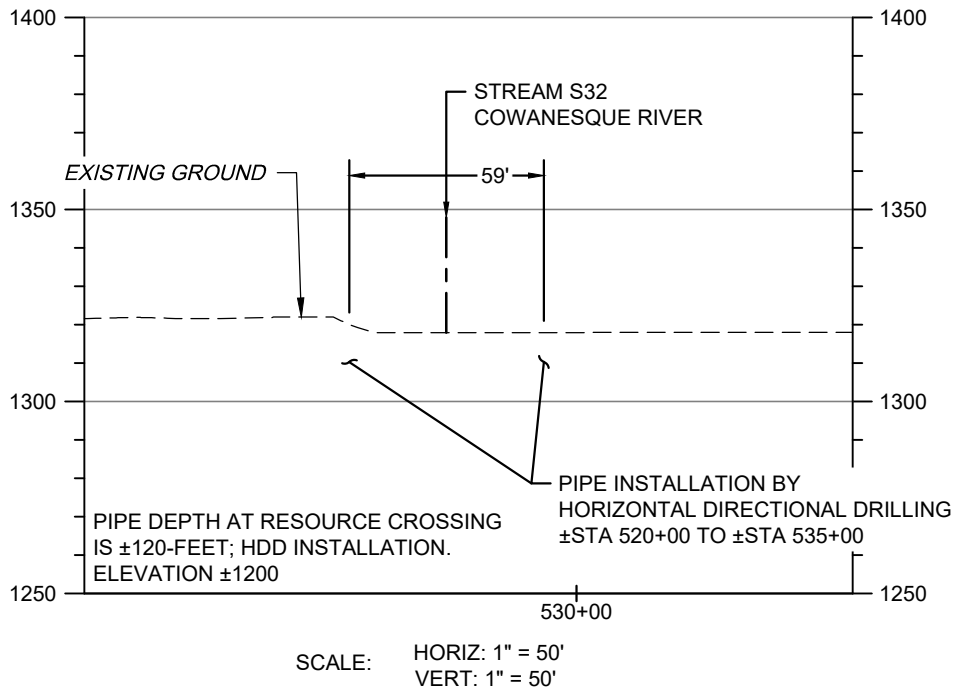
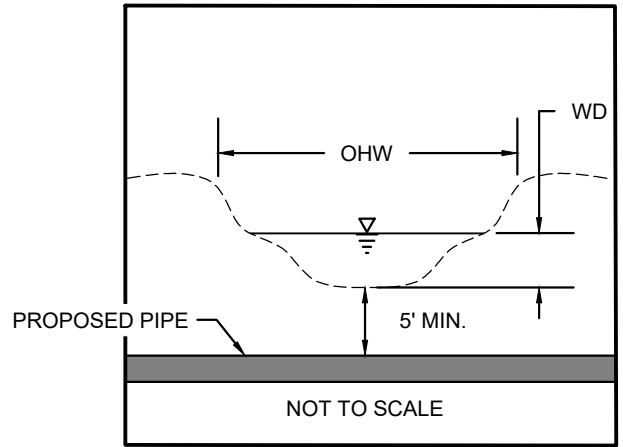
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SITE SPECIFICS
YM59 PIPELINE
WESTFIELD TWP, TIOGA COUNTY
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S32 BANK TO BANK WIDTH (OHW) = 59'
 S32 WATER DEPTH (WD) = 6"



STREAM S32 - PIPELINE CROSSING PROFILE

NOTES:

1. STREAM CROSSING WILL BE BY HORIZONTAL DIRECTIONAL DRILLING.



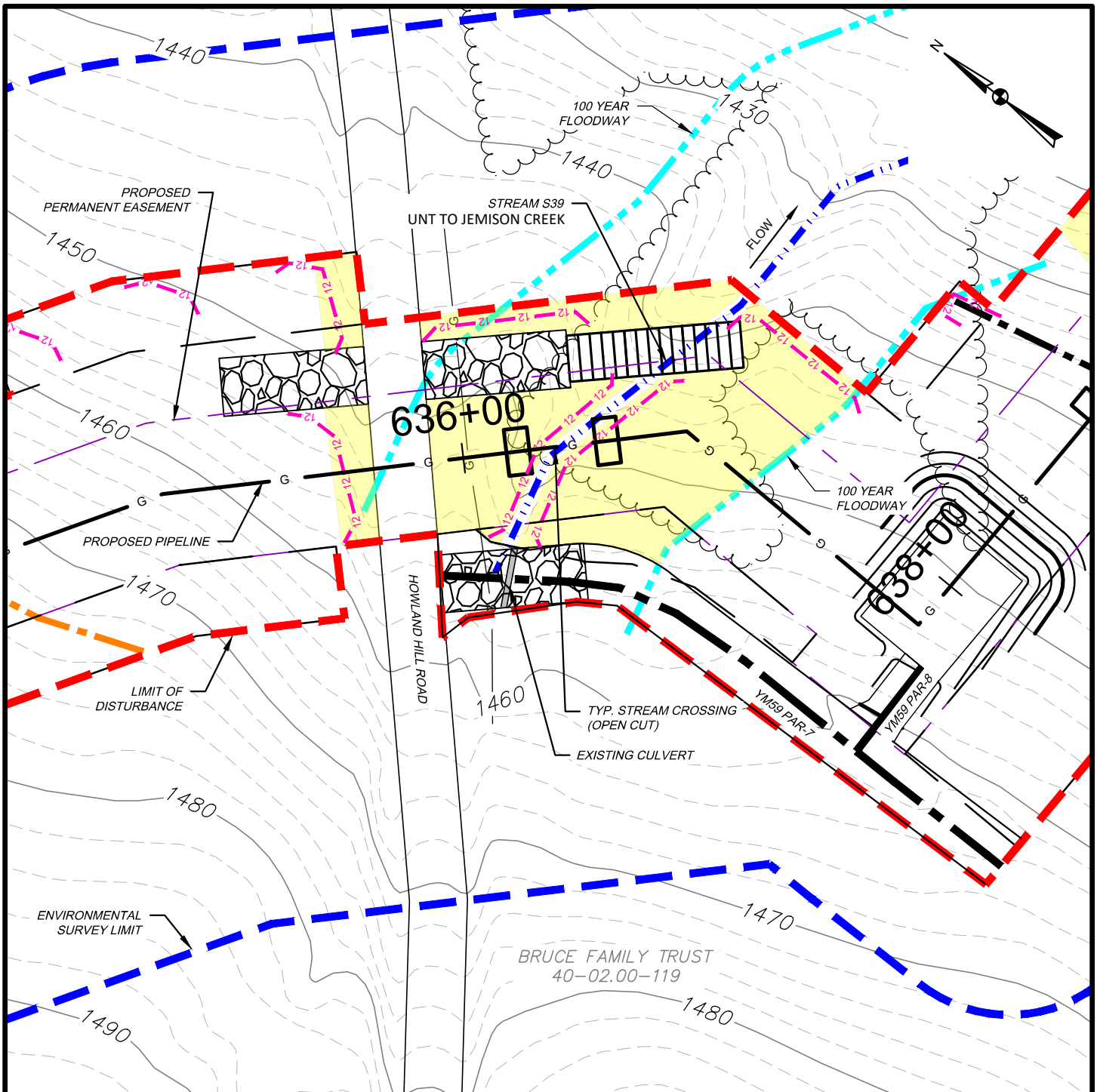
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 YM59 PIPELINE
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FIGURE 28B	



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
12.05	S39	UNT TO JEMISON CREEK	EPHEMERAL	5	41.914324	-77.483963	0.012	0.002	0.250	0.032	PIPE; BRDG; FLACT
YM59 PAR 7	S39	UNT TO JEMISON CREEK	EPHEMERAL	5	41.910238	-77.447776	0.000	0.000	0.035	0.000	EXISTING CULVERT; FLACT



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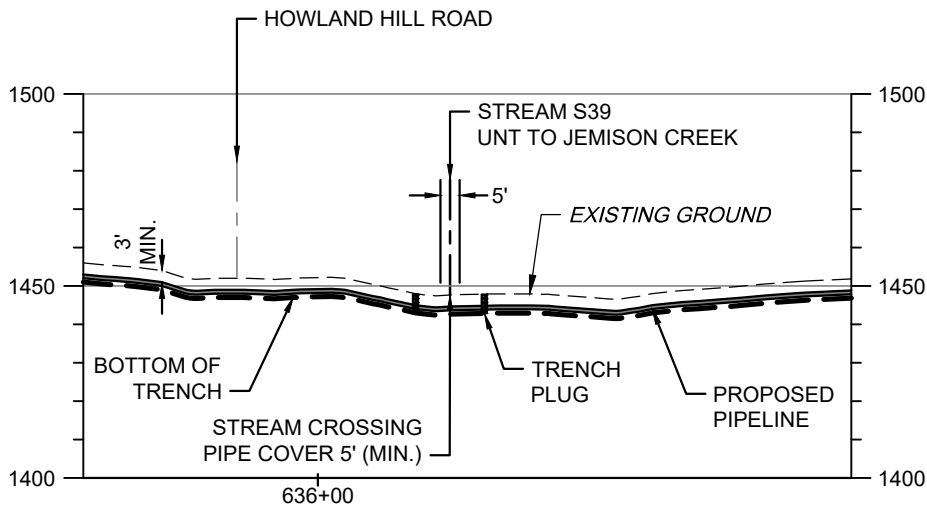
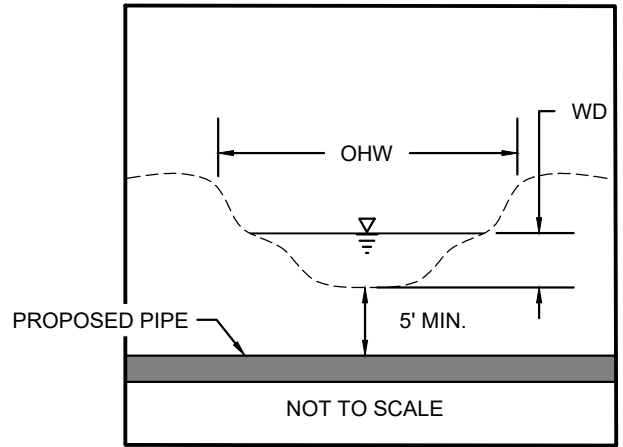
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SITE SPECIFICS
YM59 PIPELINE / ACCESS ROADS
WESTFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 29	

S39 BANK TO BANK WIDTH (OHW) = 5'
S39 WATER DEPTH (WD) = 1"



SCALE: HORIZ: 1" = 50'
VERT: 1" = 50'

STREAM S39 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



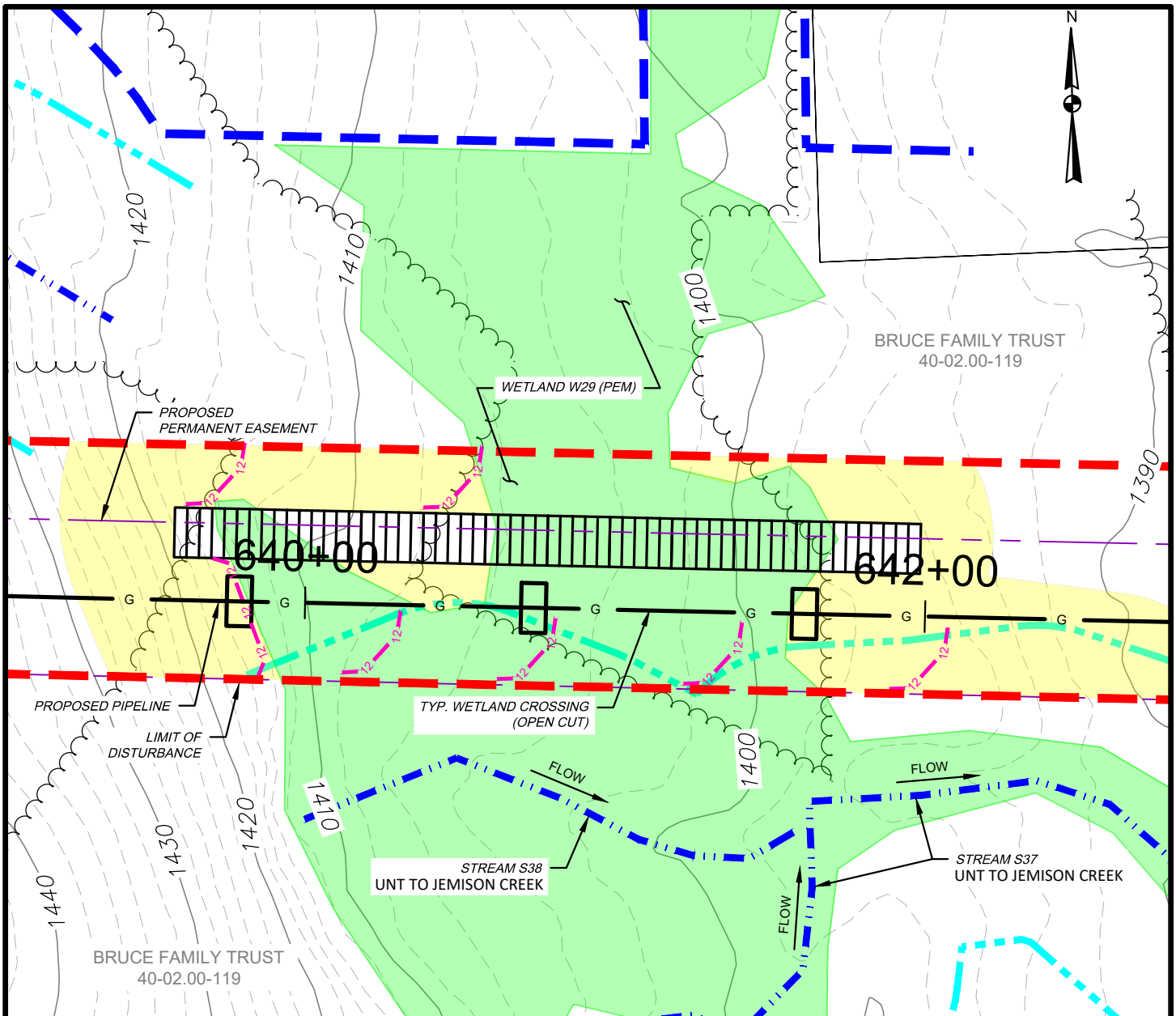
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SITE SPECIFICS
YM59 PIPELINE
WESTFIELD TWP, TIOGA COUNTY
SCALE: AS NOTED

DATE:	11/01/2024
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CHECKED BY:	RD
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FIGURE 29A	



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
FIL R12.14	S37	UNT TO JEMISON CREEK	INTERMITTENT	4	41.913881	-77.482558	0.000	0.000	0.113	0.010	BRDG; FLACT
12.14	S38	UNT TO JEMISON CREEK	INTERMITTENT	2	41.913881	-77.482558	0.000	0.000			BRDG; FLACT

WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
12.12	W29	41.913929	-77.482821	WESTFIELD	0.199	-	-	0.037	-	-	PIPE; TMPWI; WTDIM



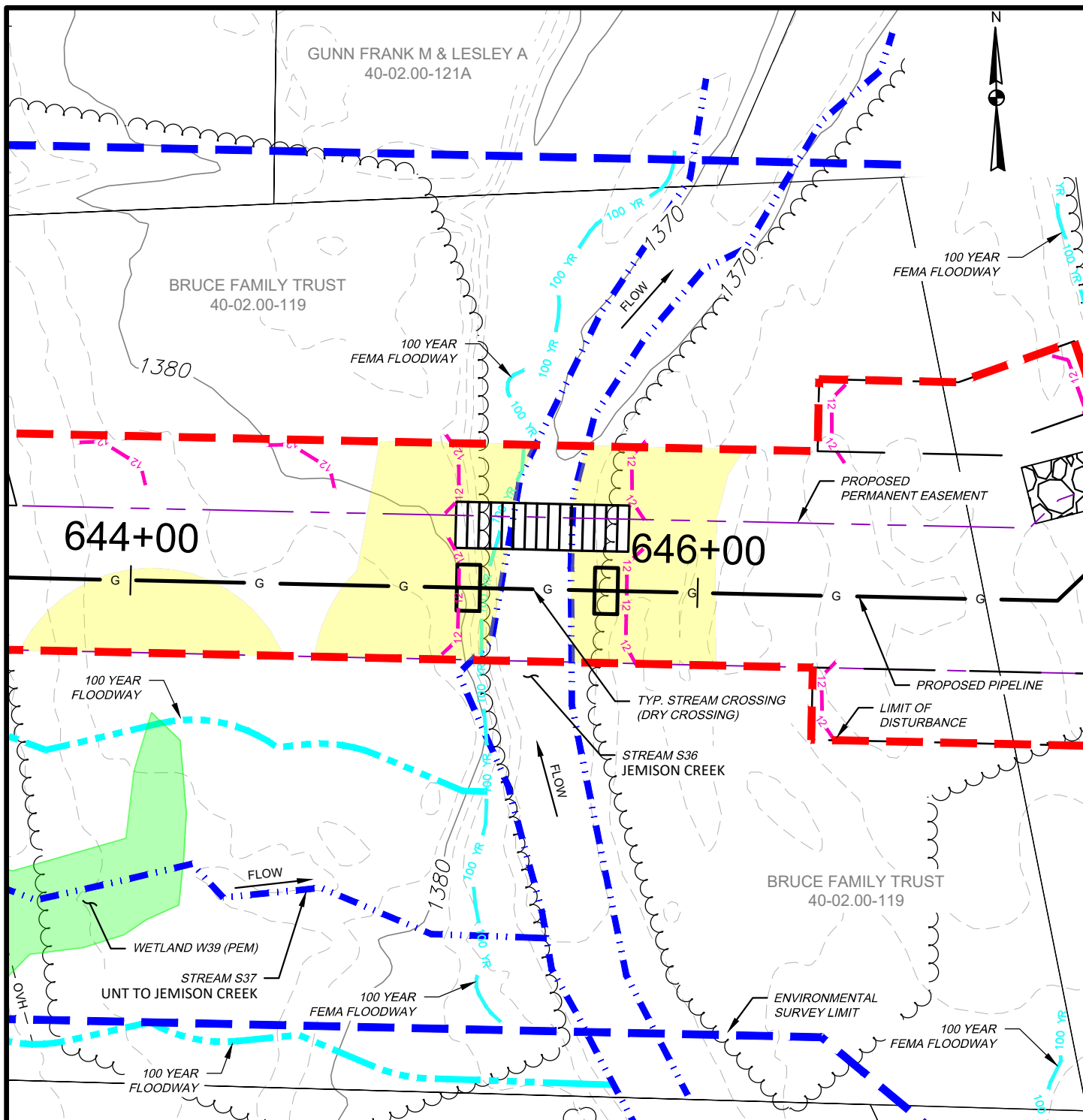
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WESTFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE: 11/01/2024
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CHECKED BY: RD
SHEET: 1 OF 1
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FIGURE 30



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
12.24	S36	JEMISON CREEK	PERENNIAL	20	41.913886	-77.481102	0.034	0.006	0.471	0.053	PIPE; BRDG; FLACT



TETRA TECH

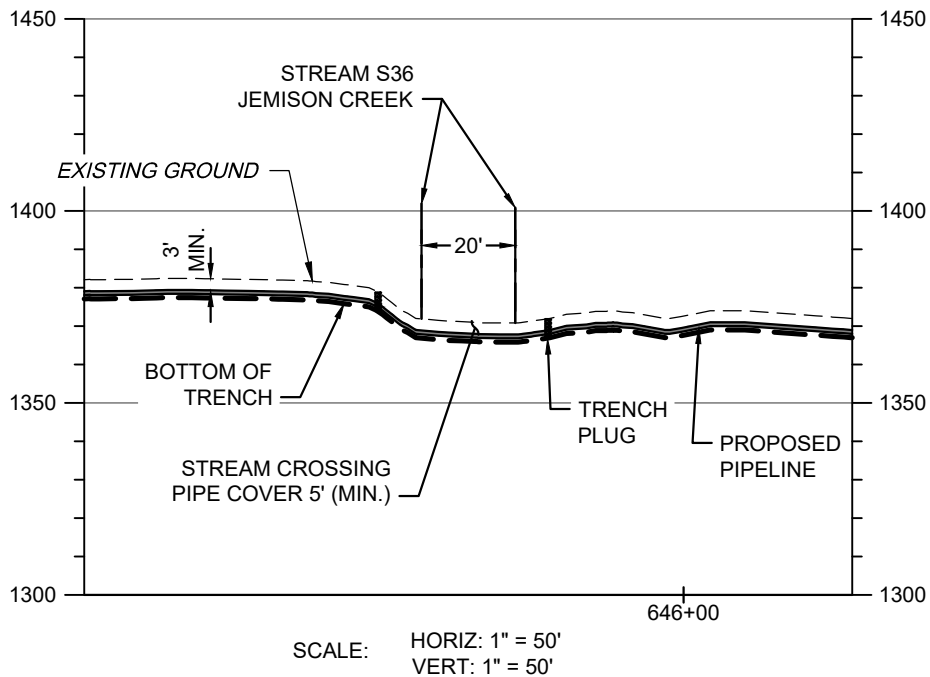
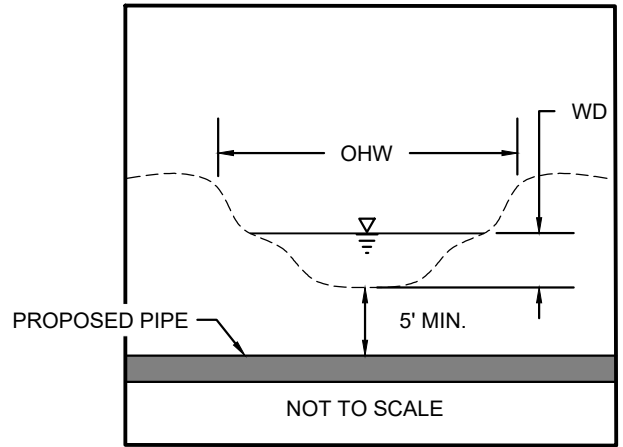
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SITE SPECIFICS
YM59 PIPELINE
WESTFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 31	

S36 BANK TO BANK WIDTH (OHW) = 20'
S36 WATER DEPTH (WD) = 7"



STREAM S36 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



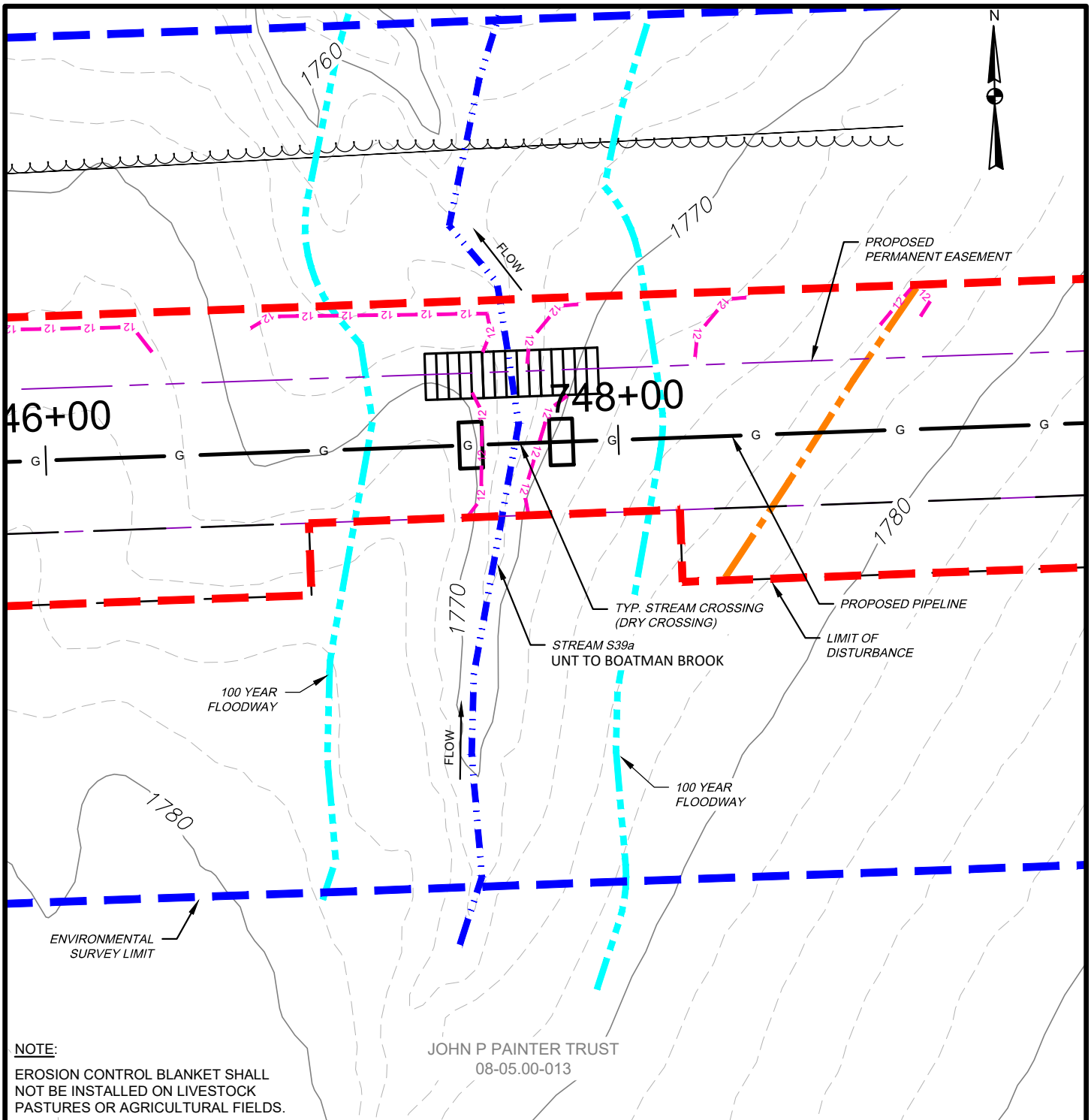
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TIOGA PATHWAY PROJECT
SITE SPECIFICS
YM59 PIPELINE
WESTFIELD TWP, TIOGA COUNTY
SCALE: AS NOTED

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FIGURE 31A	



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WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
14.16	S39a	UNT TO BOATMAN CROOK	PERENNIAL	5	41.910238	-77.447776	0.008	0.001	0.159	0.025	PIPE; BRDG; FLACT



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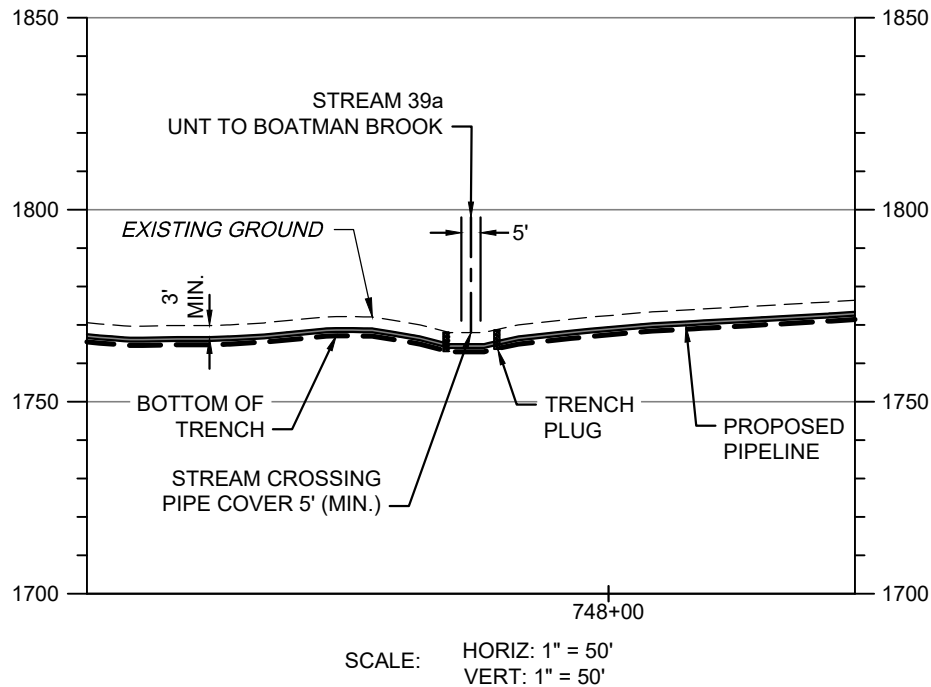
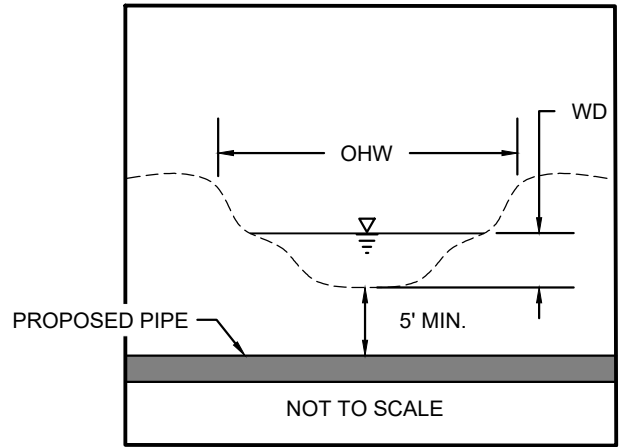
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YM59 PIPELINE
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SCALE: 1" = 50'

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S39a BANK TO BANK WIDTH (OHW) = 5'
S39a WATER DEPTH (WD) = 4"



STREAM S39a - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



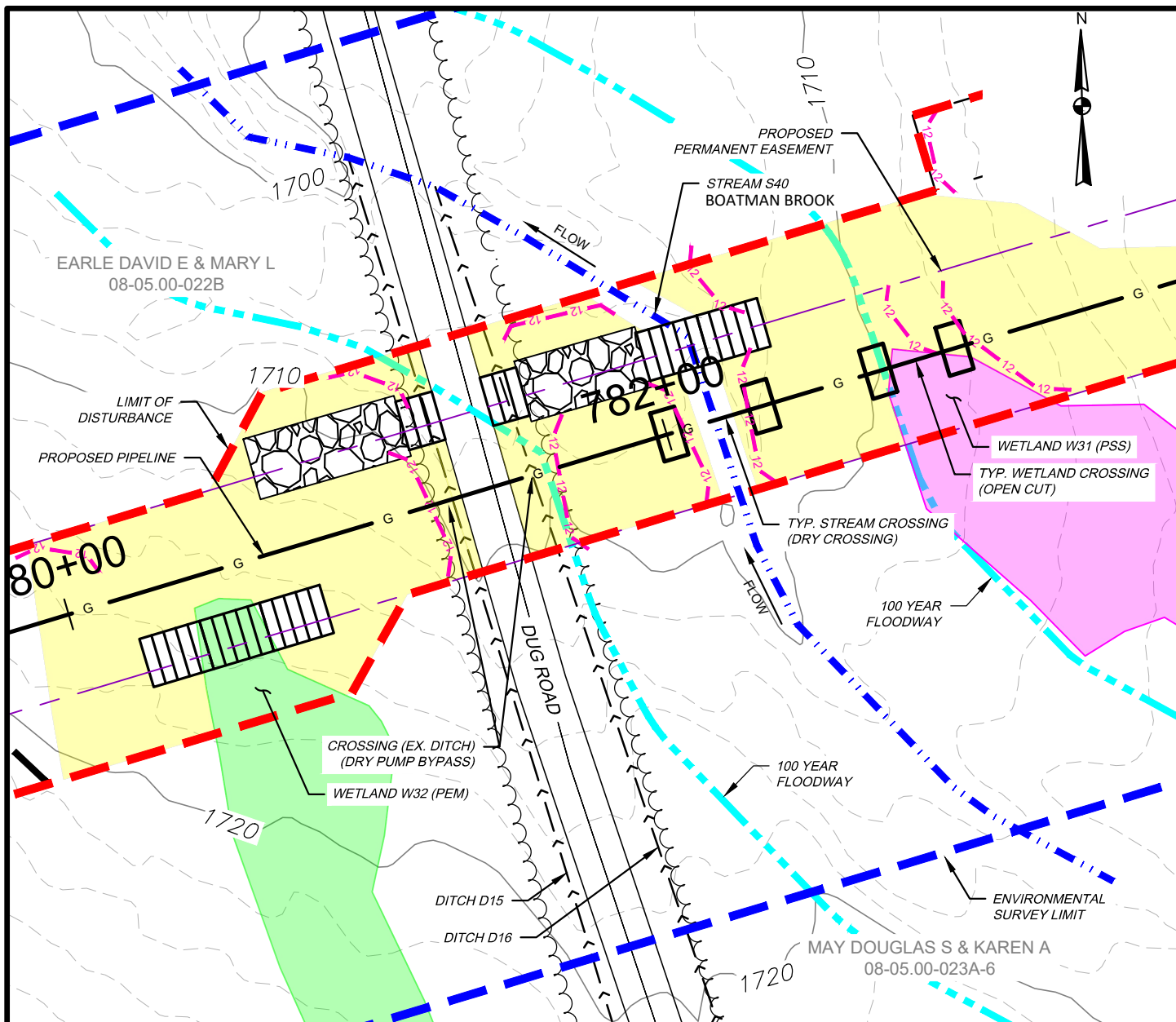
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DEERFIELD TWP, TIOGA COUNTY
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FIGURE 32A	



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
14.82	W31	41.914442	-77.437616	DEERFIELD	-	0.018	-	-	0.004	-	PIPE; TMPWI; WTDIM
14.78	W32	41.914179	-77.438402	DEERFIELD	0.021	-	-	0.000	-	-	TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
14.81	S40	BOATMAN BROOK	PERENNIAL	12	41.914391	-77.43785	0.020	0.003	0.186	0.026	PIPE; BRDG; FLACT



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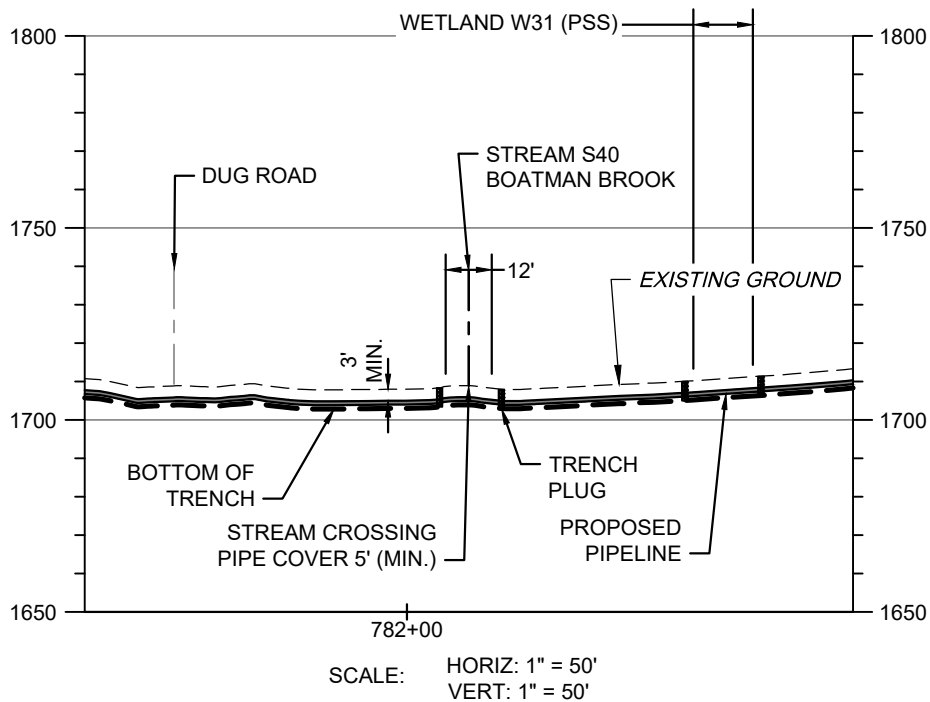
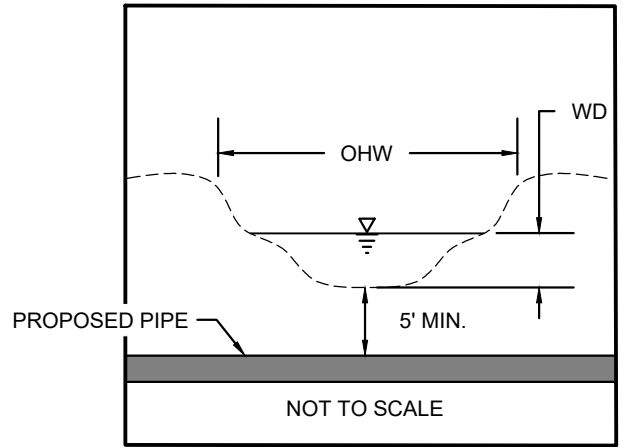
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YM59 PIPELINE
DEERFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 33

S40 BANK TO BANK WIDTH (OHW) = 12'
S40 WATER DEPTH (WD) = 6"



STREAM S40 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



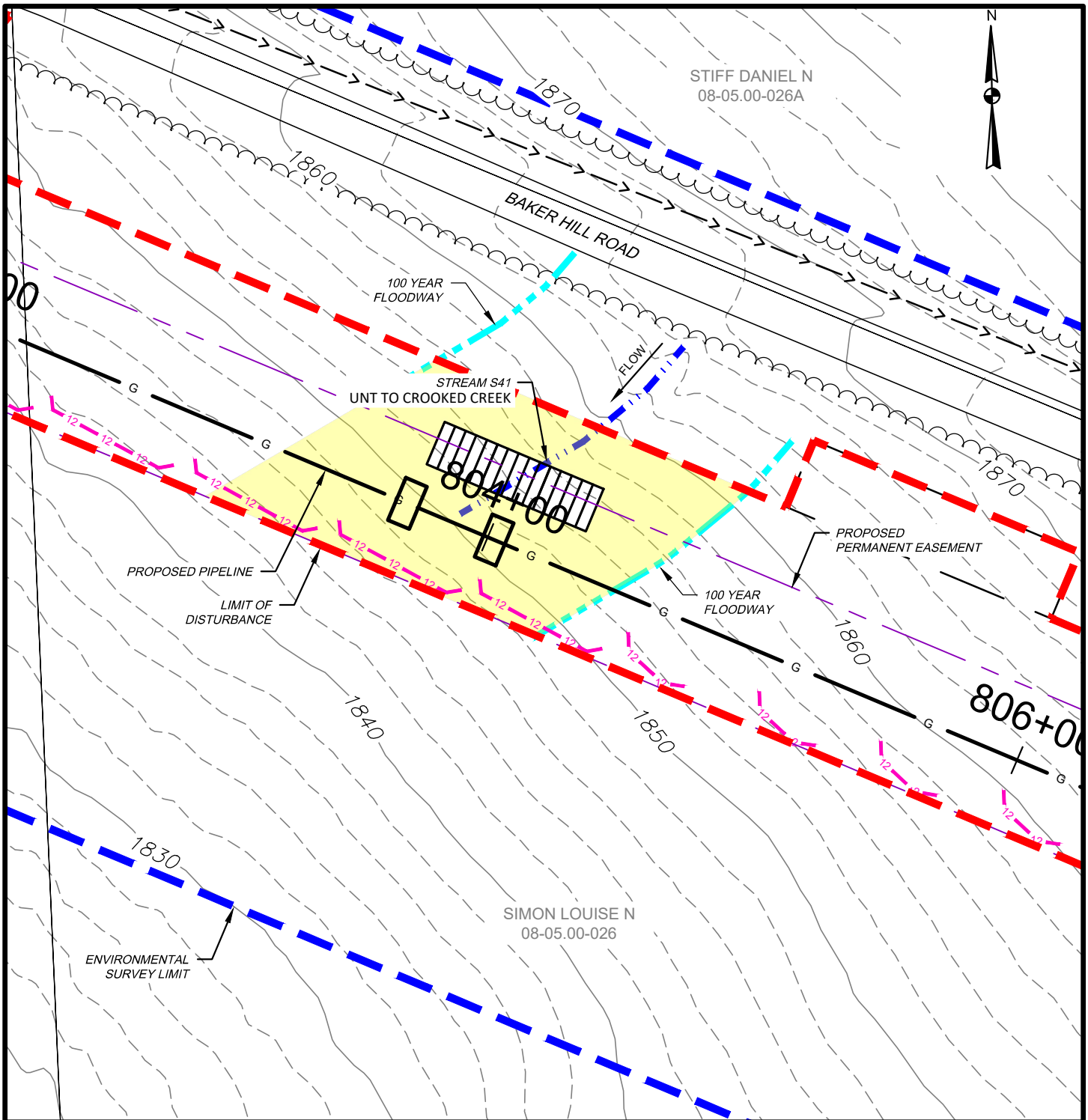
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SITE SPECIFICS
YM59 PIPELINE
DEERFIELD TWP, TIOGA COUNTY
SCALE: AS NOTED

DATE:	11/01/2024
PROJECT NO.:	212C-BF-00493
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SHEET:	2 OF 2
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FIGURE 33A	



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
15.24	S41	UNT TO CROOKED CREEK	EPHEMERAL	4	41.913661	-77.430417	0.006	0.000	0.174	0.026	BRDG; FLACT



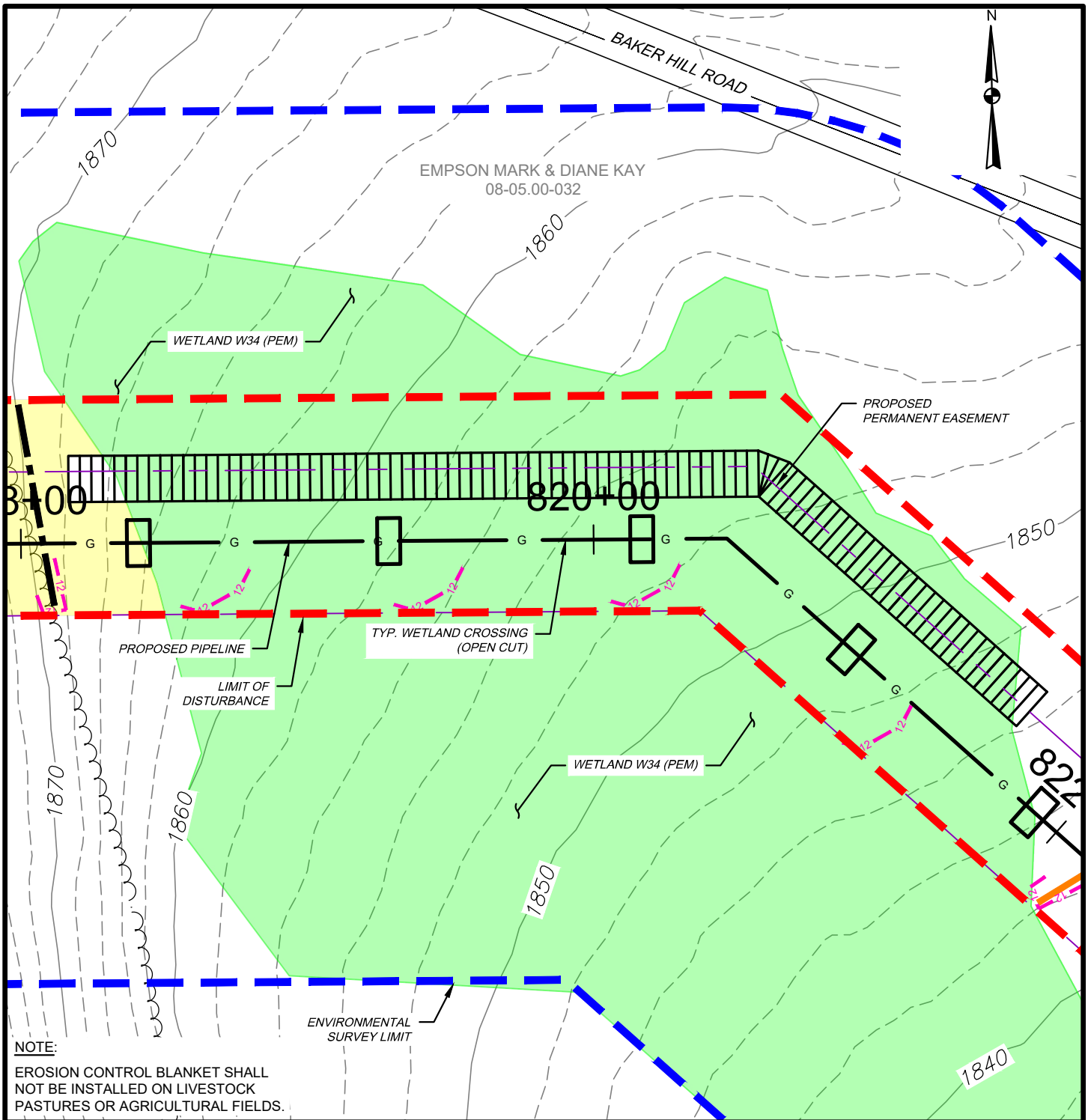
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SITE SPECIFICS
YM59 PIPELINE
DEERFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE:	11/01/2024
PROJECT NO.:	212C-BF-00493
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FIGURE 34	



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
15.50	W34	41.911875	-77.425407	DEERFIELD	0.508	-	-	0.079	-	-	PIPE; TMPWI; WTDIM



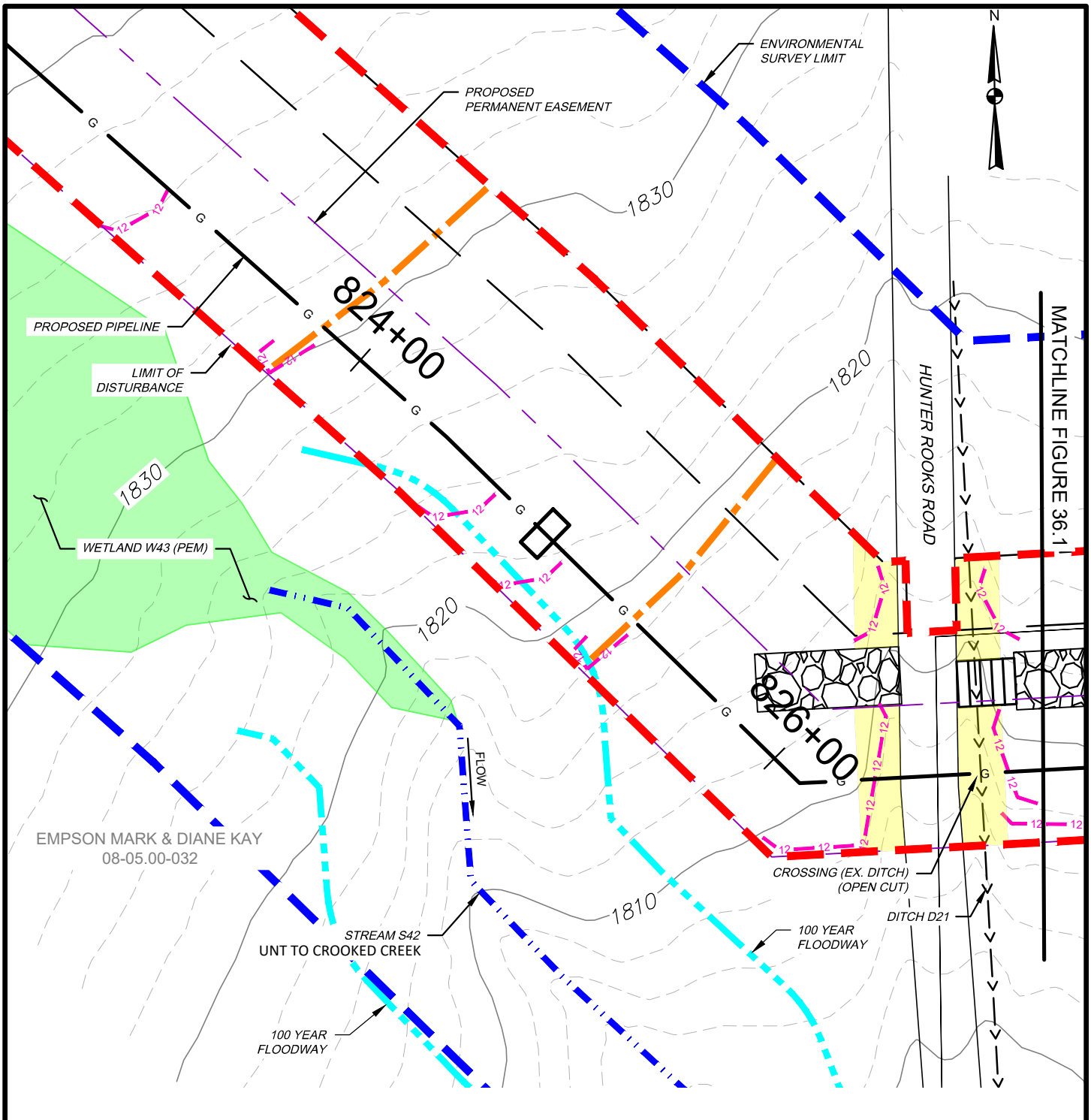
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DEERFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 35



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
15.62	S42	UNT TO CROOKED CREEK	INTERMITTENT	2	41.911082	-77.424149	0.000	0.000	0.019	0.000	FLACT



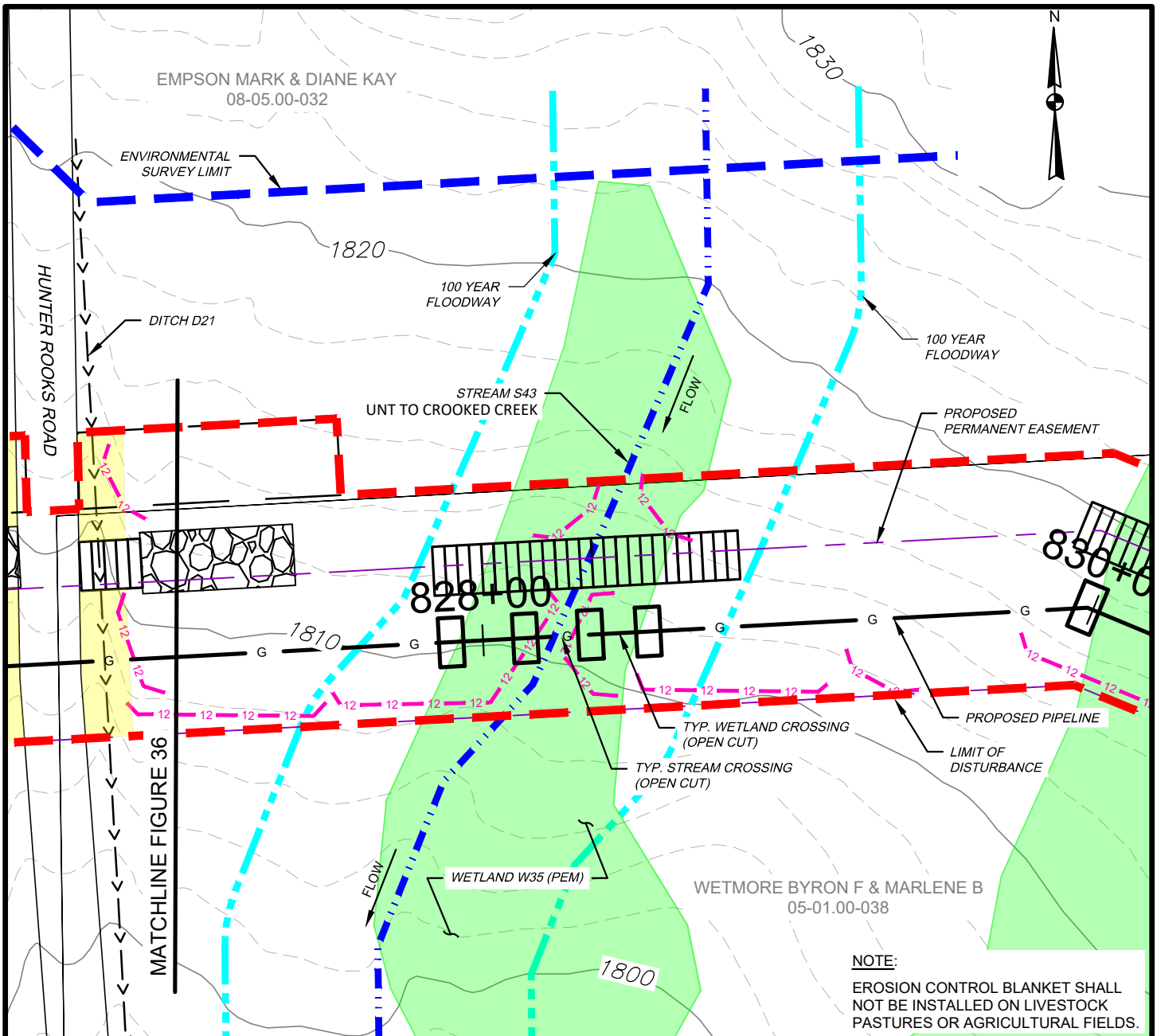
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DEERFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE: 11/01/2024
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FIGURE 36



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
15.68	W35	41.910894	-77.422991	DEERFIELD	0.090	-	-	0.014	-	-	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
15.68	S43	UNT TO CROOKED CREEK	INTERMITTENT	2	41.910894	-77.422985	0.003	0.001	0.179	0.028	PIPE; BRDG; FLACT



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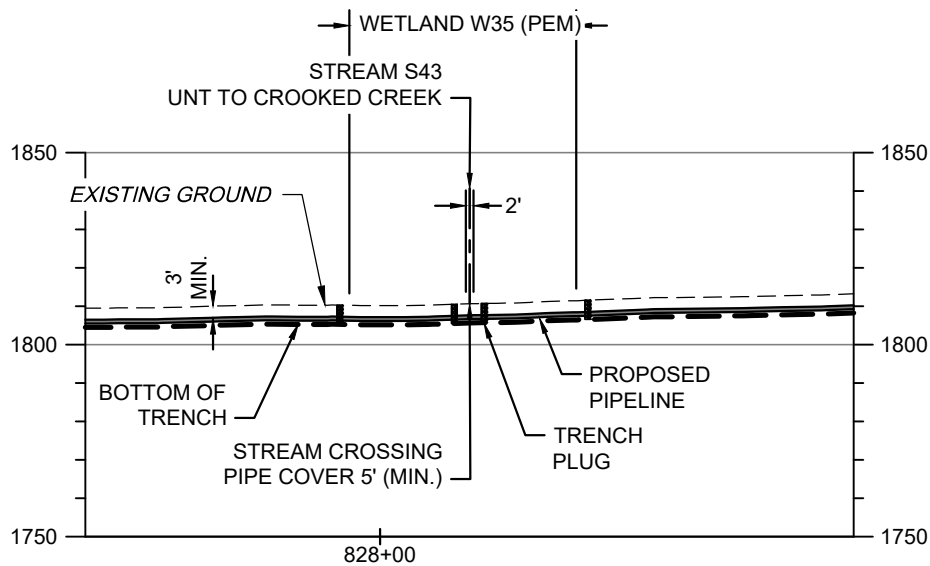
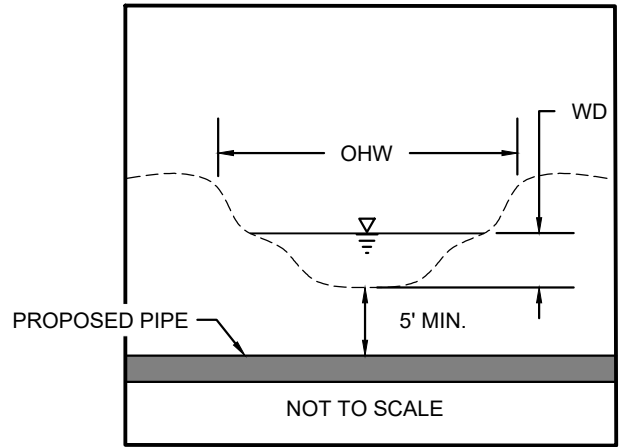
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SITE SPECIFICS
YM59 PIPELINE
DEERFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE: 11/01/2024
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FIGURE 36.1

S43 BANK TO BANK WIDTH (OHW) = 2'
S43 WATER DEPTH (WD) = 2"



SCALE: HORIZ: 1" = 50'
VERT: 1" = 50'

STREAM S43 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



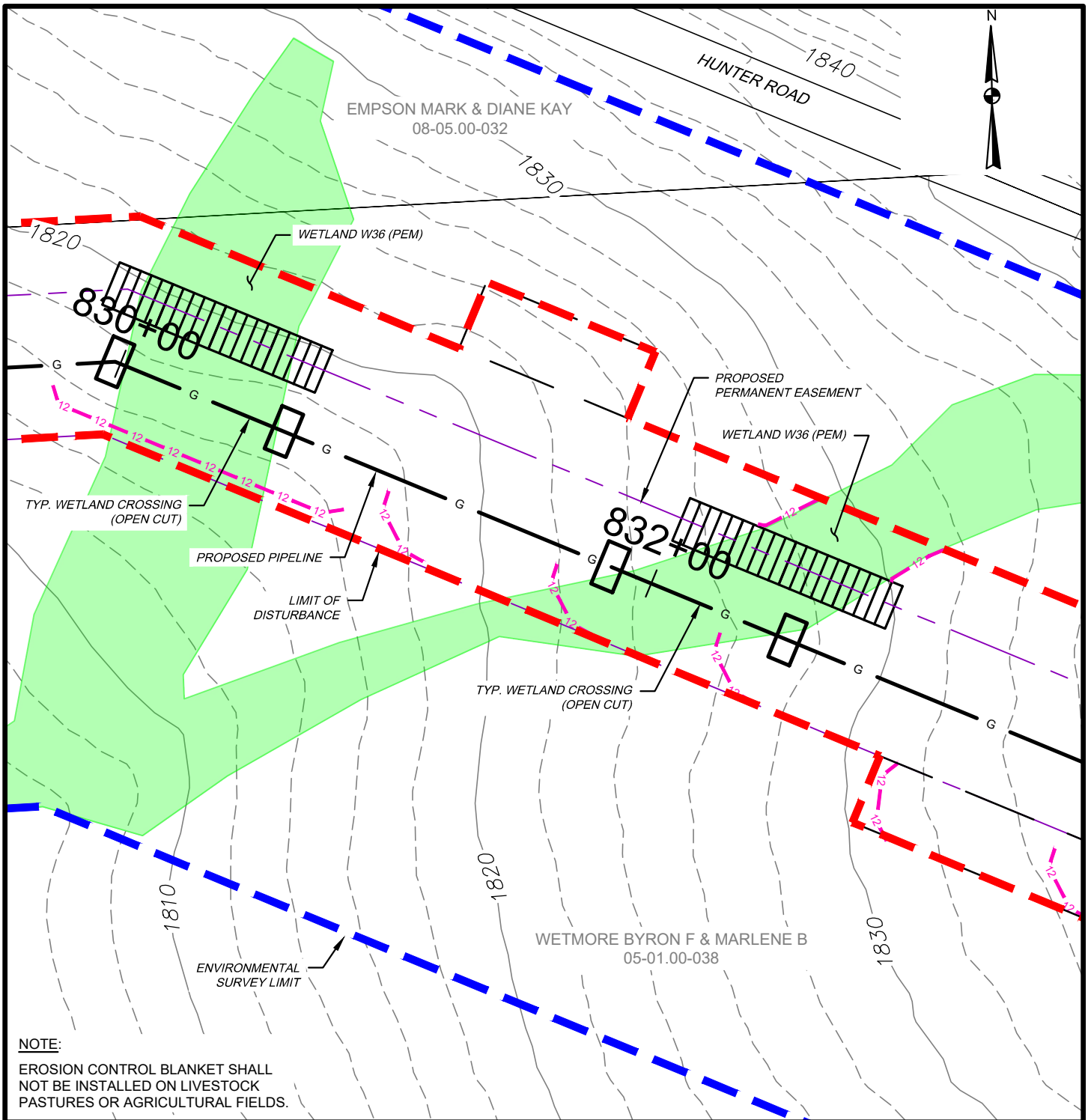
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SITE SPECIFICS
YM59 PIPELINE
DEERFIELD TWP, TIOGA COUNTY
SCALE: AS NOTED

DATE:	11/01/2024
PROJECT NO.:	212C-BF-00493
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FIGURE 36A	



NOTE:

EROSION CONTROL BLANKET SHALL NOT BE INSTALLED ON LIVESTOCK PASTURES OR AGRICULTURAL FIELDS.

WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
15.74	W36	41.910879	-77.422235	DEERFIELD	0.160	-	-	0.026	-	-	PIPE; TMPWI; WTDIM



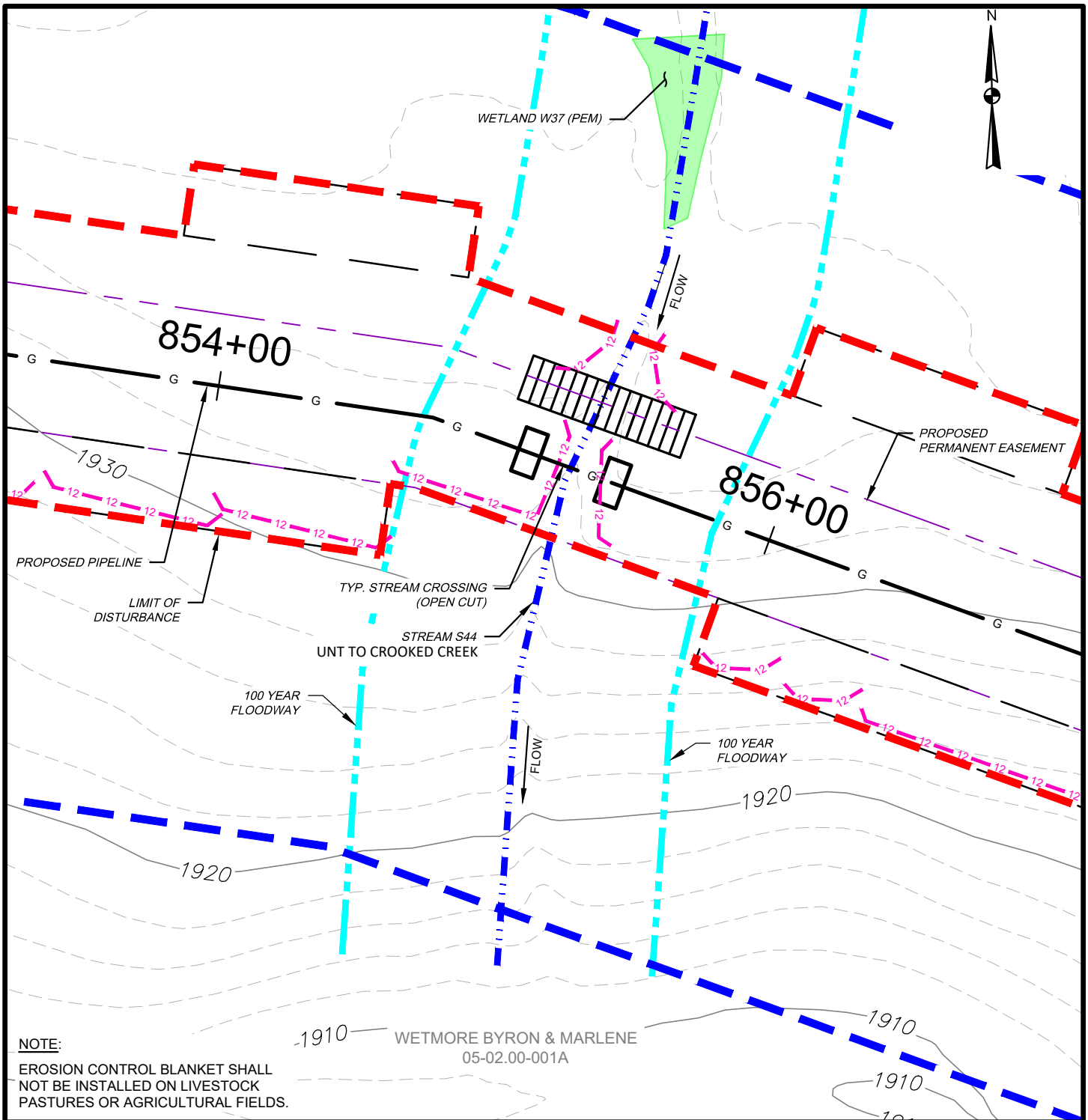
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SITE SPECIFICS
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DEERFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 37	



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
16.20	S44	UNT TO CROOKED CREEK	INTERMITTENT	8	41.907833	-77.414802	0.012	0.002	0.162	0.025	PIPE; BRDG; FLACT



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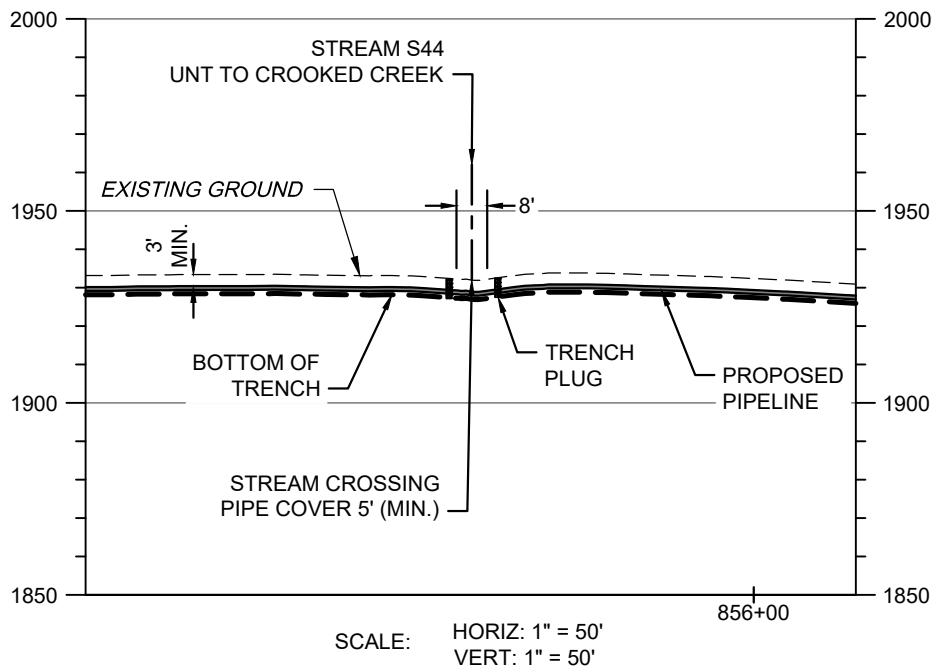
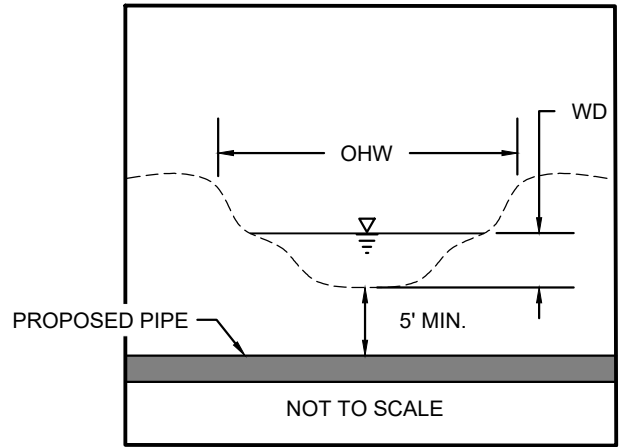
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SITE SPECIFICS
YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE:	11/01/2024
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FIGURE 38	

S44 BANK TO BANK WIDTH (OHW) = 8'
S44 WATER DEPTH (WD) = 1'



STREAM S44 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



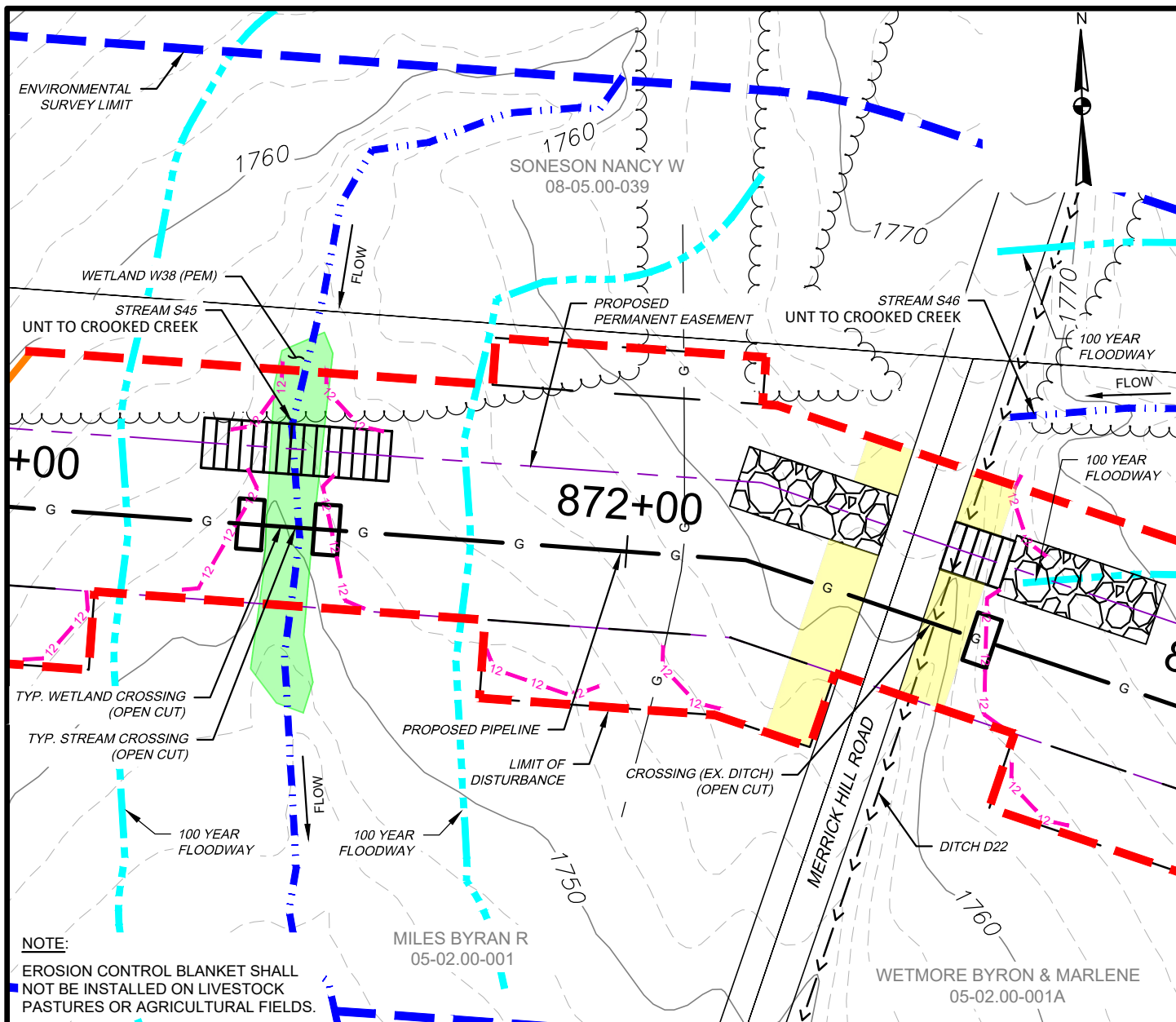
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SITE SPECIFICS
YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
SCALE: AS NOTED

DATE: 11/01/2024
PROJECT NO.: 212C-BF-00493
DESIGNED BY: BC
DRAWN BY: BC / JZ
CHECKED BY: RD
SHEET: 2 OF 2
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FIGURE 38A



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
16.50	S45	UNT TO CROOKED CREEK	INTERMITTENT	9	41.906929	-77.40934	0.013	0.002	0.164	0.025	PIPE; BRDG; FLACT
16.54	S46	UNT TO CROOKED CREEK	INTERMITTENT	6	41.906927	-77.408497	0.000	0.000	0.065	0.000	FLACT

WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
16.48	W38	41.90693	-77.409351	CHATHAM	0.027	-	-	0.003	-	-	PIPE; TMPWI; WTDIM



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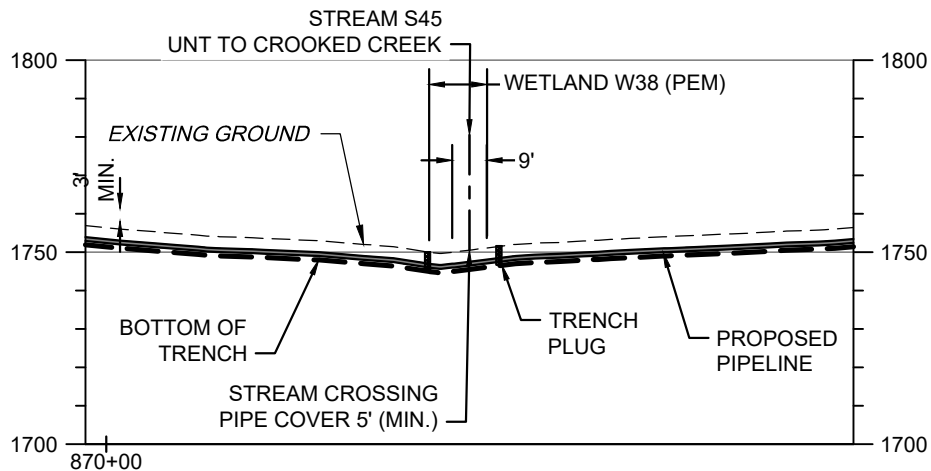
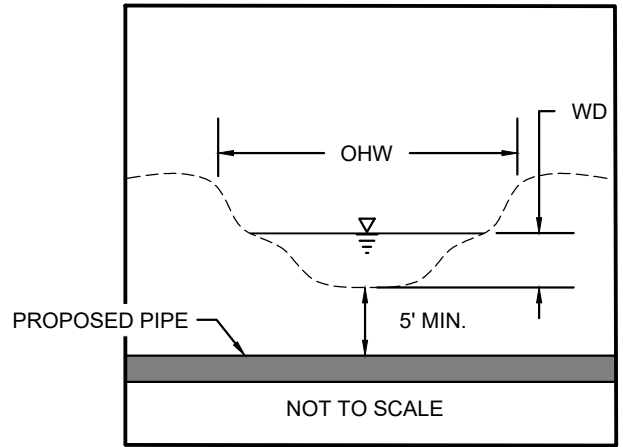
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SITE SPECIFICS
YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE: 11/01/2024
PROJECT NO.: 212C-BF-00493
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FIGURE 39

S45 BANK TO BANK WIDTH (OHW) = 9'
S45 WATER DEPTH (WD) = 3"



SCALE: HORIZ: 1" = 50'
VERT: 1" = 50'

STREAM S45 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



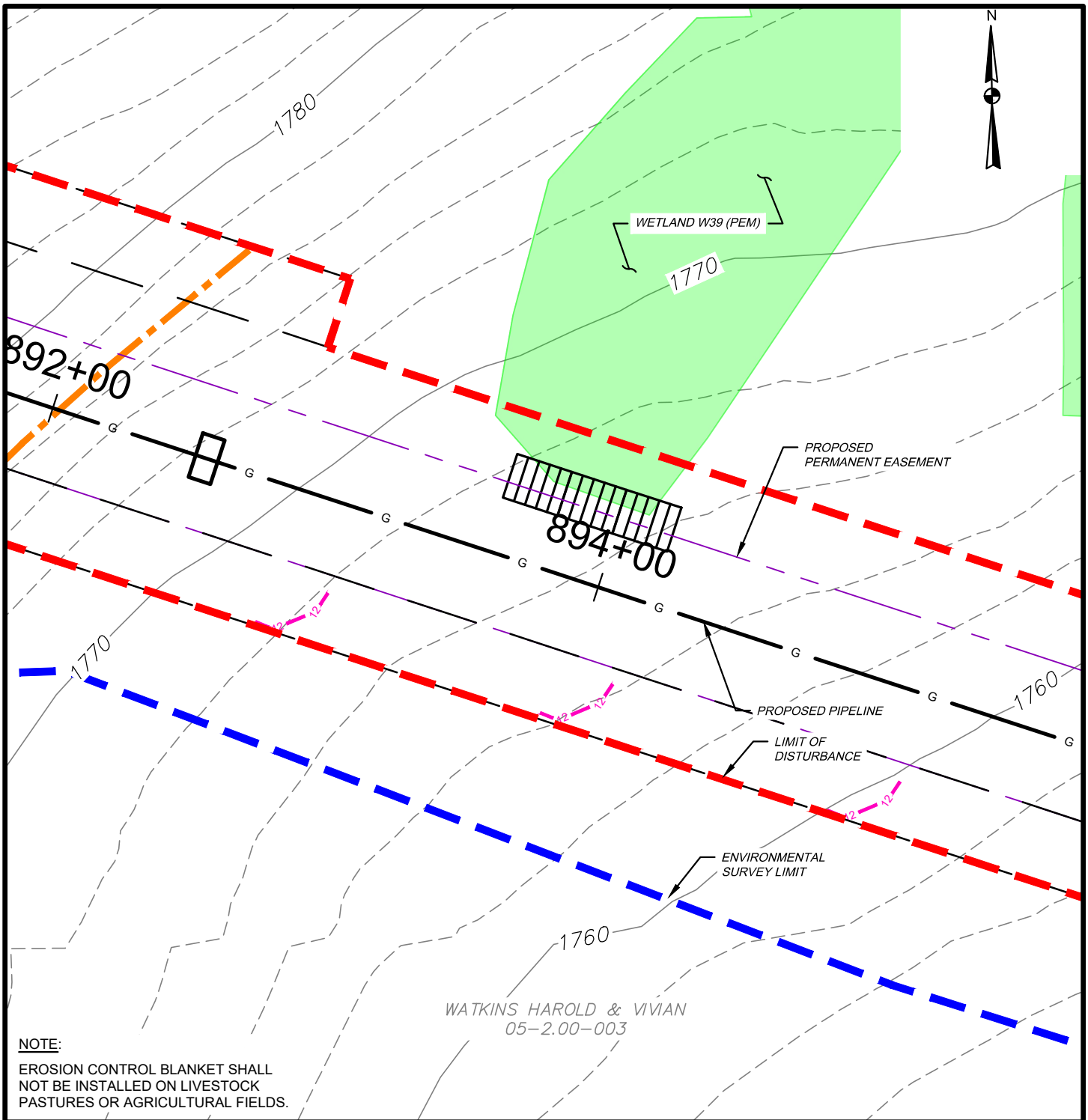
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SITE SPECIFICS
YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
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FIGURE 39A	



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
16.93	W39	41.903544	-77.404032	CHATHAM	0.022	-	-	0.000	-	-	TMPWI



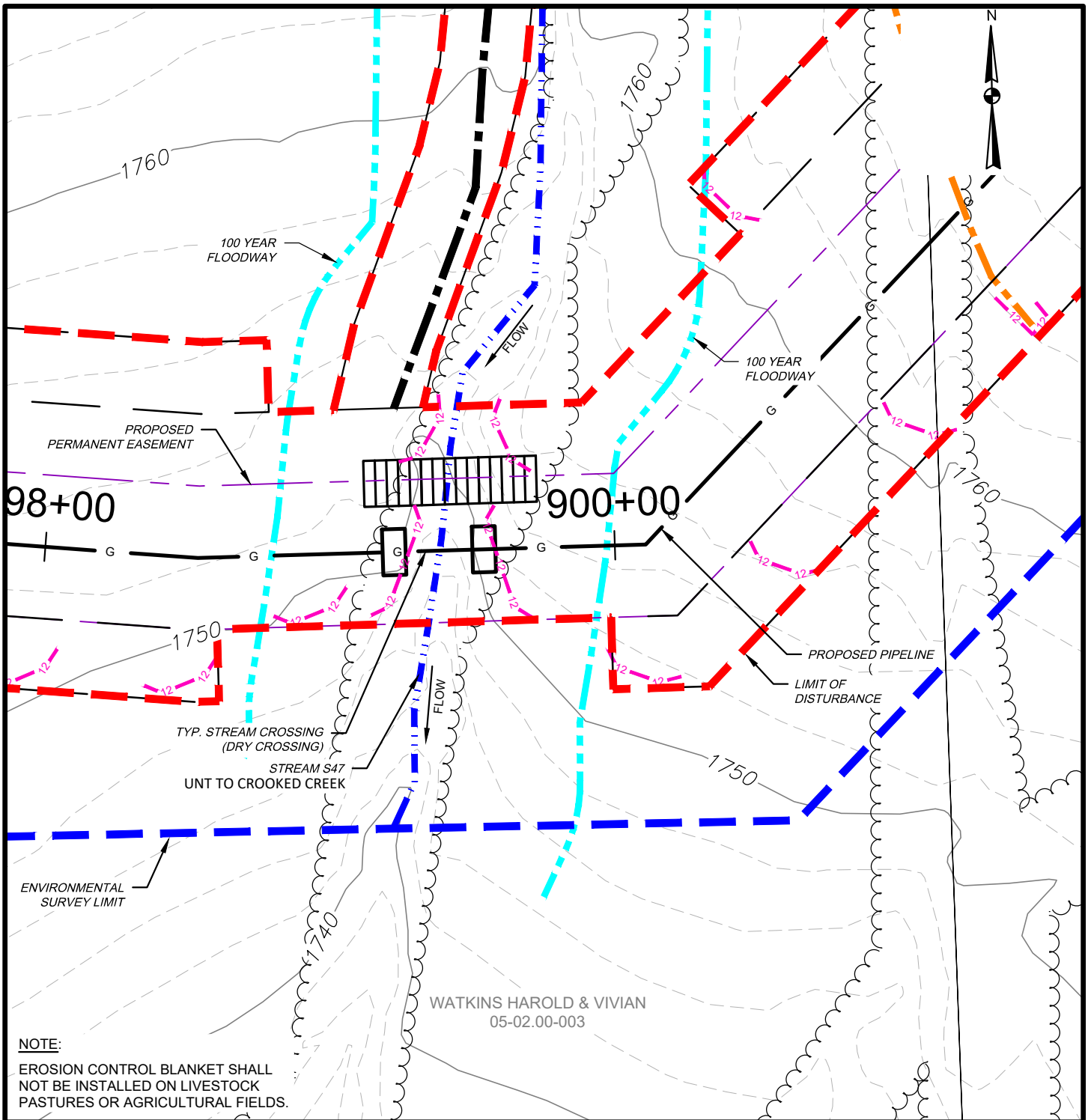
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SITE SPECIFICS
YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE: 11/01/2024
PROJECT NO.: 212C-BF-00493
DESIGNED BY: BC
DRAWN BY: BC / JZ
CHECKED BY: RD
SHEET: 1 OF 1
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FIGURE 40



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
17.04	S47	UNT TO CROOKED CREEK	PERENNIAL	15	41.903123	-77.402116	0.023	0.003	0.192	0.027	PIPE; BRDG; FLACT



TETRA TECH

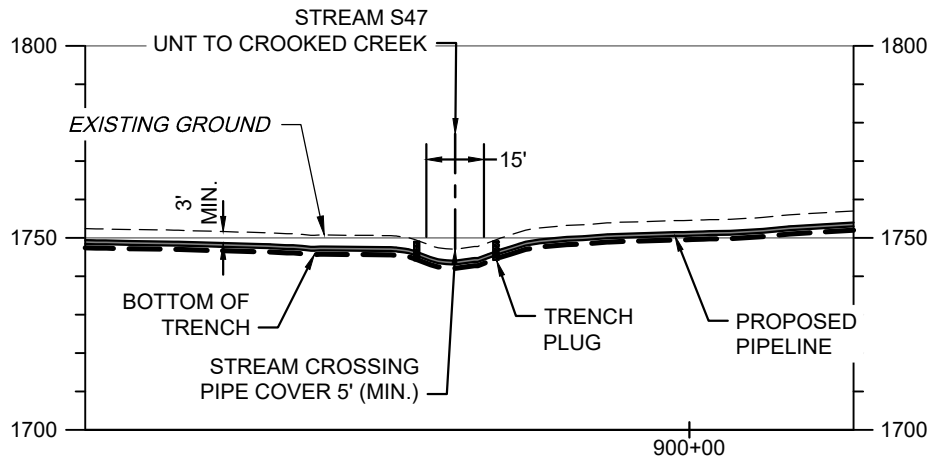
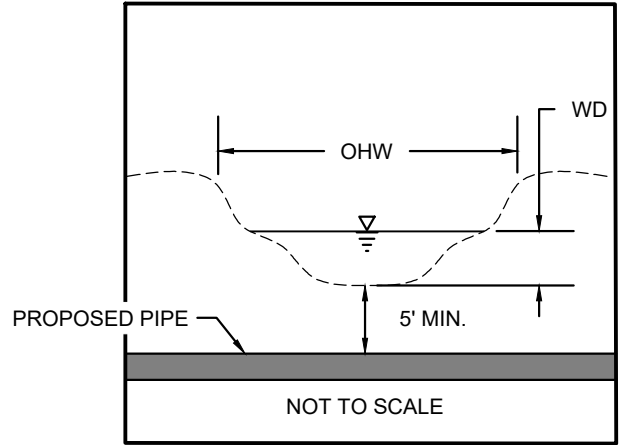
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TIOGA PATHWAY PROJECT
SITE SPECIFICS
YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE:	11/01/2024
PROJECT NO.:	212C-BF-00493
DESIGNED BY:	BC
DRAWN BY:	BC / JZ
CHECKED BY:	RD
SHEET:	1 OF 2
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S47 BANK TO BANK WIDTH (OHW) = 15'
S47 WATER DEPTH (WD) = 4"



SCALE: HORIZ: 1" = 50'
VERT: 1" = 50'

STREAM S47 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



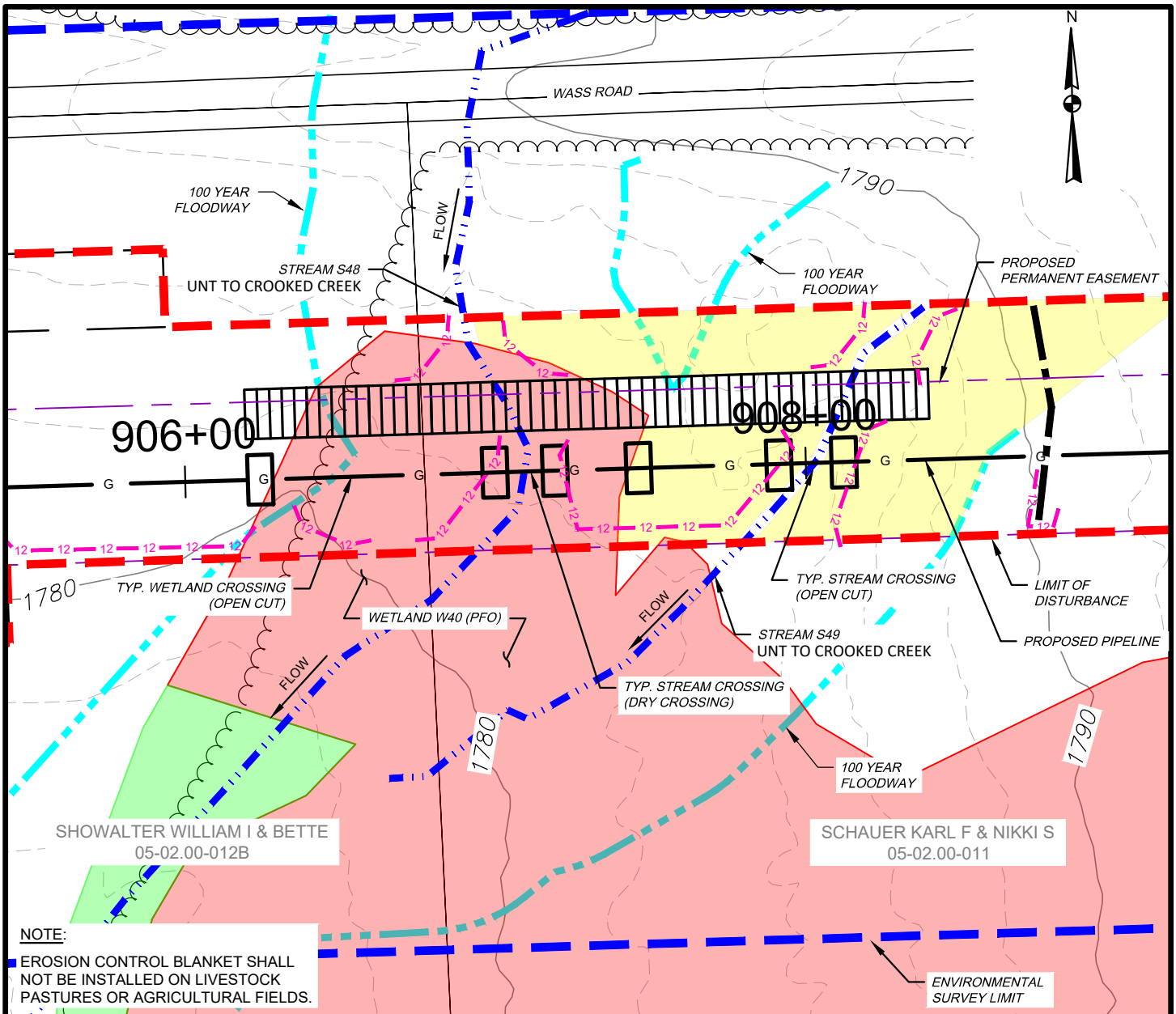
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SITE SPECIFICS
YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
SCALE: AS NOTED

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FIGURE 41A	



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
17.16	W40	41.903838	-77.399772	CHATHAM	-	-	0.081	-	-	0.079	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
17.18	S48	UNT TO CROOKED CREEK	PERENNIAL	6	41.903839	-77.399686	0.011	0.001	0.353	0.050	PIPE; BRDG; FLACT
17.20	S49	UNT TO CROOKED CREEK	EPHEMERAL	4	41.903844	-77.399343	0.008	0.001			PIPE; BRDG; FLACT



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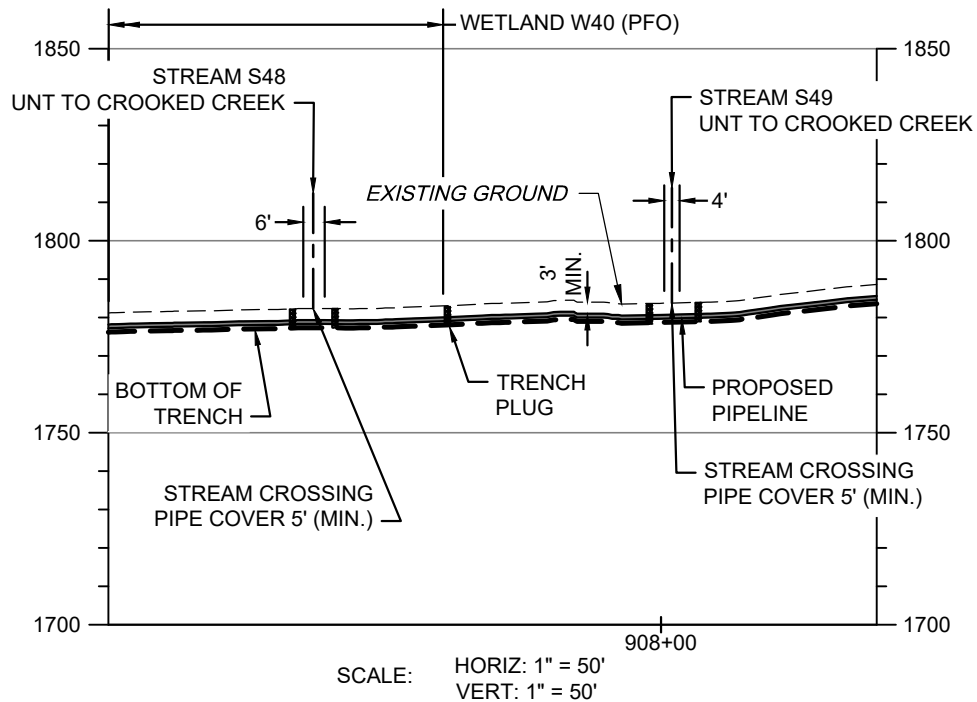
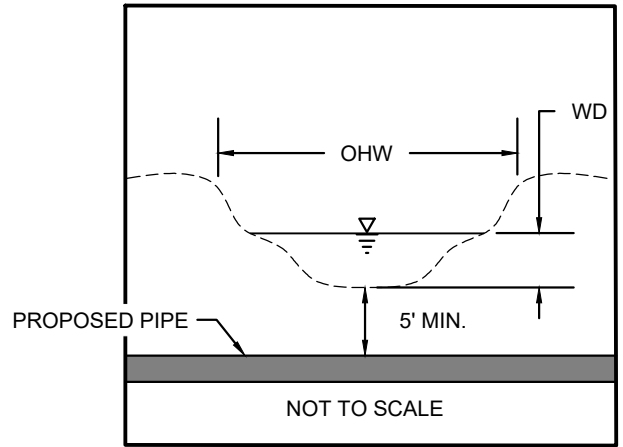
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YM59 PIPELINE
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SCALE: 1" = 50'

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FIGURE 42	

S48 BANK TO BANK WIDTH (OHW) = 6'
 S48 WATER DEPTH (WD) = 1"
 S49 BANK TO BANK WIDTH (OHW) = 4'
 S49 WATER DEPTH (WD) = 1"



STREAM S48 & STREAM S49 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



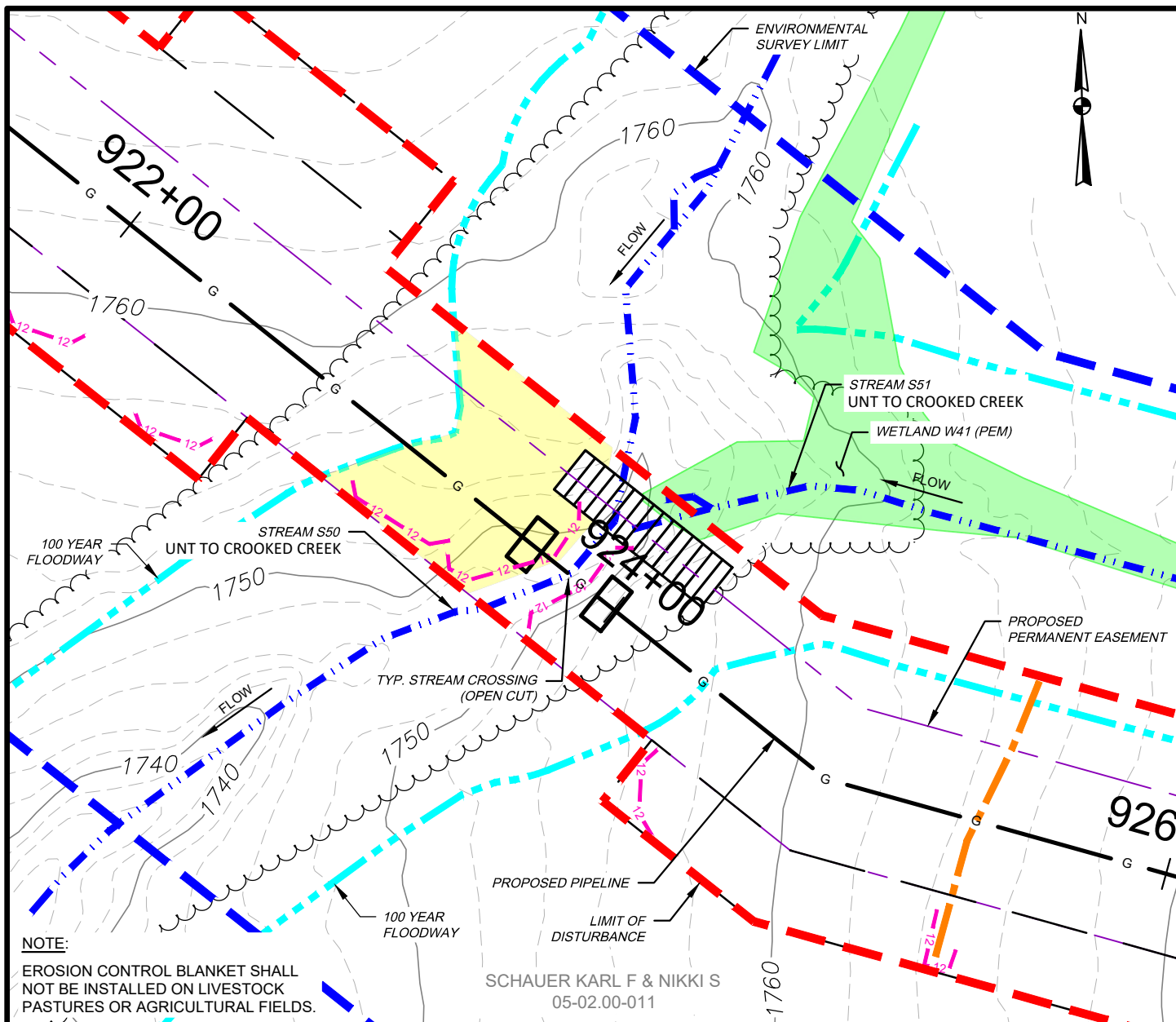
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 YM59 PIPELINE
 CHATHAM TWP, TIOGA COUNTY
 SCALE: AS NOTED

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 DRAWN BY: BC / JZ
 CHECKED BY: RD
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FIGURE 42A



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
17.50	W41	41.901814	-77.394413	CHATHAM	0.009	-	-	0.000	-	-	TMPWI

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
17.50	S50	UNT TO CROOKED CREEK	INTERMITTENT	11	41.901756	-77.394562	0.018	0.003	0.236	0.028	PIPE; BRDG; FLACT
17.50	S51	UNT TO CROOKED CREEK	INTERMITTENT	1	41.90182	-77.394441	0.001	0.000			PIPE; BRDG; FLACT



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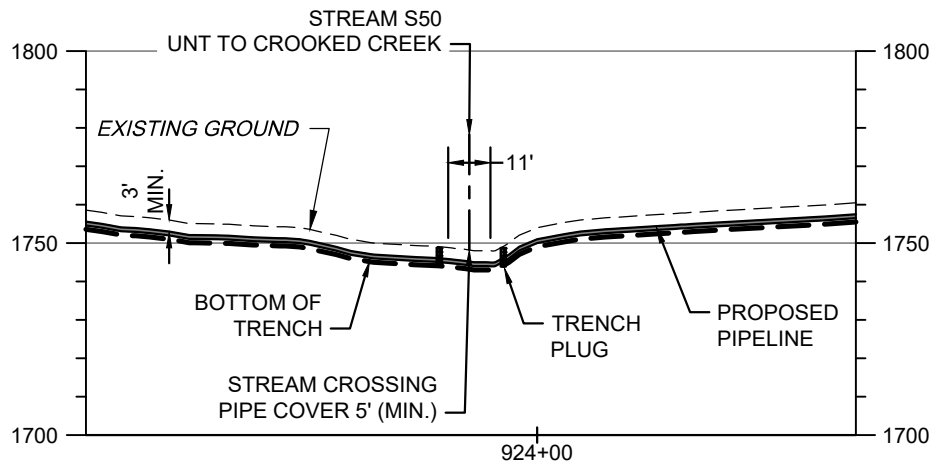
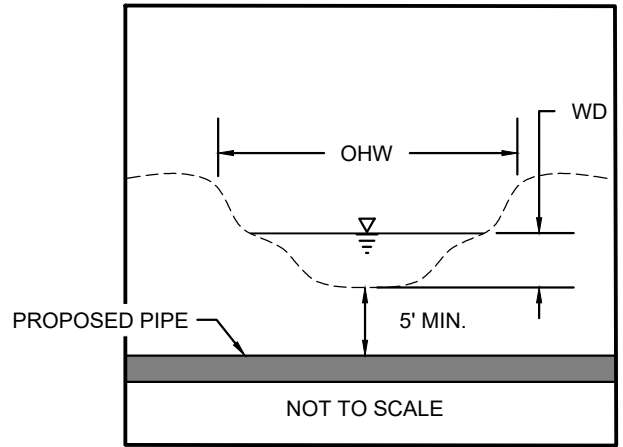
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SITE SPECIFICS
YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE: 11/01/2024
PROJECT NO.: 212C-BF-00493
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SHEET: 1 OF 2
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FIGURE 43

S50 BANK TO BANK WIDTH (OHW) = 11'
S50 WATER DEPTH (WD) = 4"



SCALE: HORIZ: 1" = 50'
VERT: 1" = 50'

STREAM S50 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



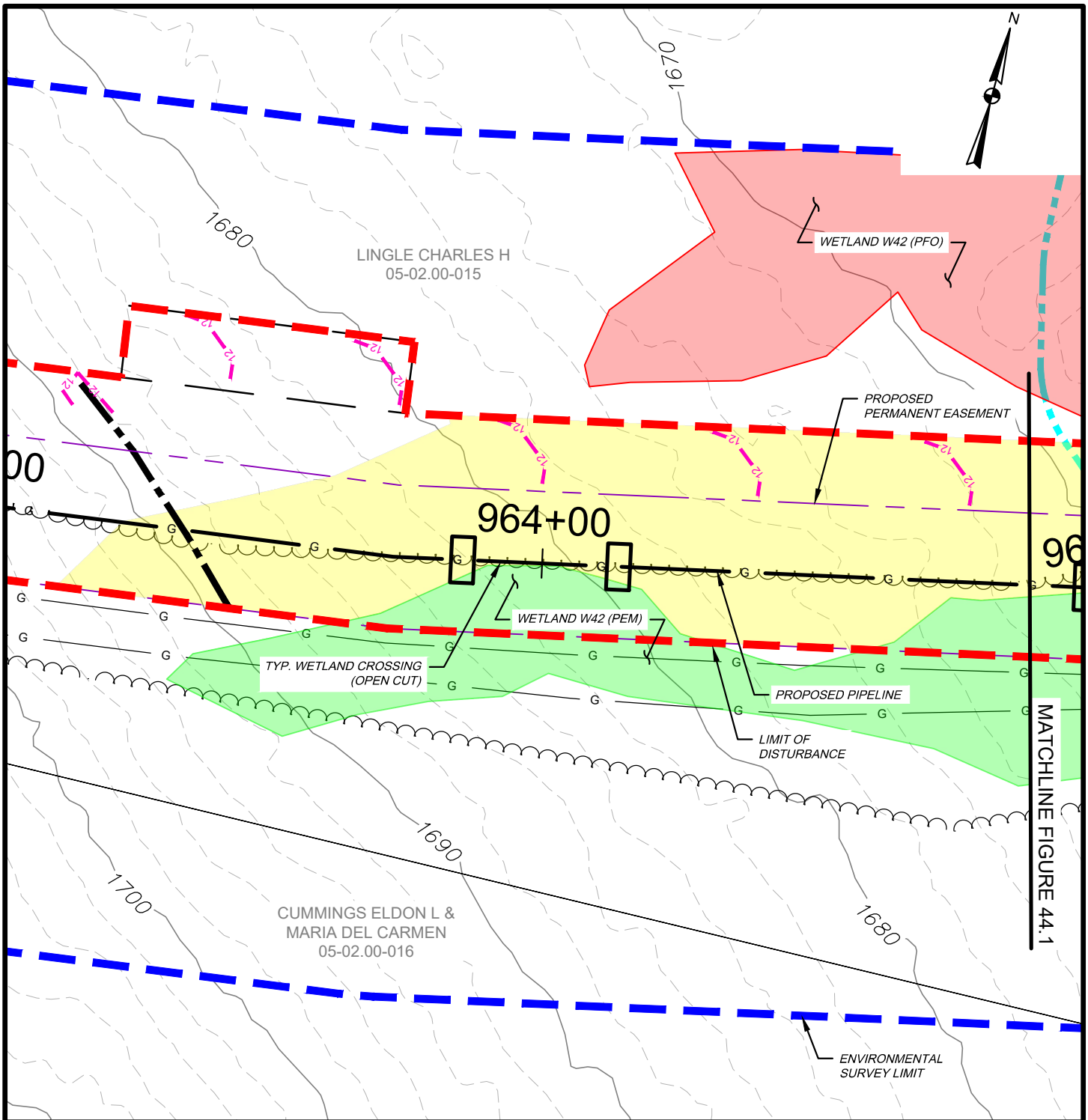
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SITE SPECIFICS
YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
SCALE: AS NOTED

DATE:	11/01/2024
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FIGURE 43A	



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
18.30	W42	41.900397	-77.381429	CHATHAM	0.229	-	0.152	0.051	-	0.042	PIPE; TMPWI; WTDIM



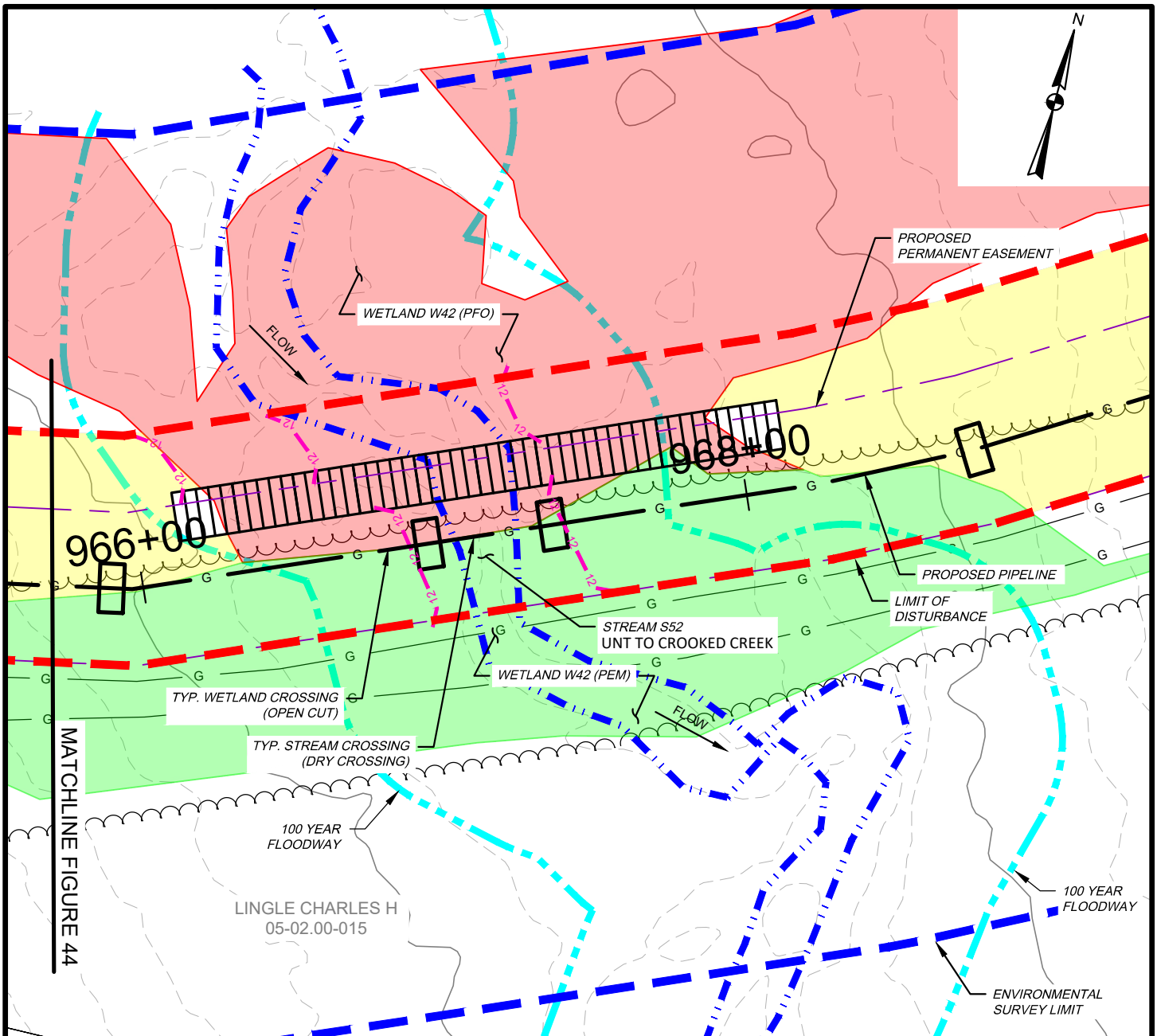
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SITE SPECIFICS
YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE:	11/01/2024
PROJECT NO.:	212C-BF-00493
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FIGURE 44	



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
18.30	W42	41.900397	-77.381429	CHATHAM	0.229	-	0.152	0.051	-	0.042	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
18.32	S52	UNT TO CROOKED CREEK	PERENNIAL	12	41.90069	-77.380339	0.042	0.005	0.247	0.030	PIPE; BRDG; FLACT



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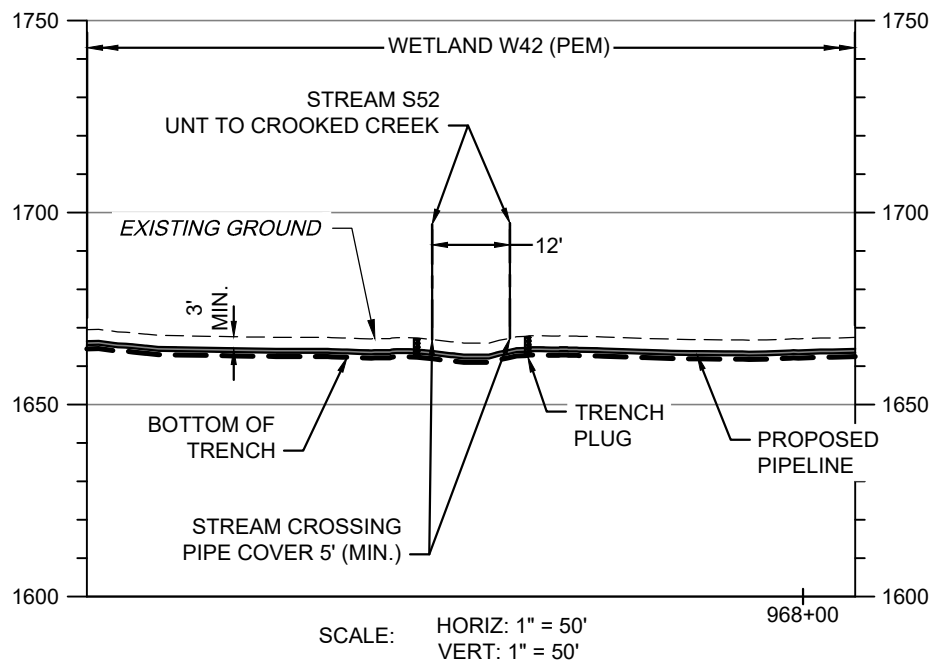
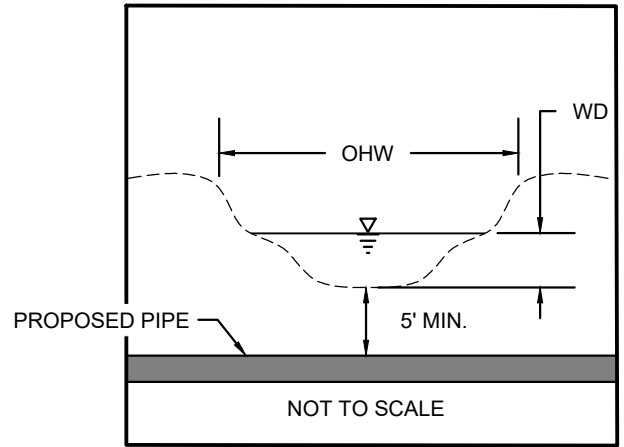
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YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
SCALE: 1" = 50'

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S52 BANK TO BANK WIDTH (OHW) = 12'
S52 WATER DEPTH (WD) = 8"



STREAM S52 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



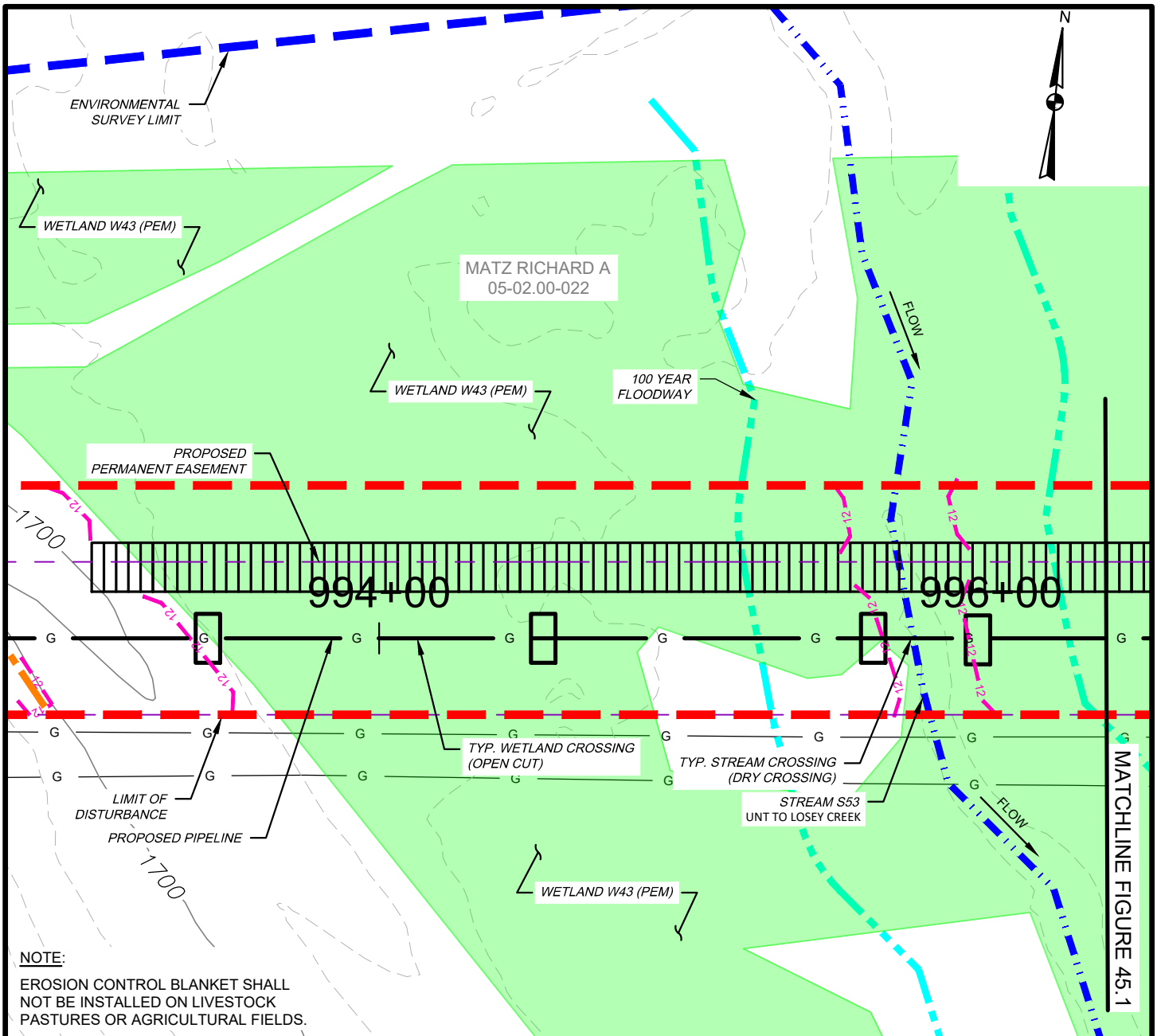
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SITE SPECIFICS
YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
SCALE: AS NOTED

DATE: 11/01/2024
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CHECKED BY: RD
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FIGURE 44A



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
18.82	W43	41.90299	-77.37074	CHATHAM	0.670	-	-	0.109	-	-	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
18.85	S53	UNT TO LOSEY CREEK	PERENNIAL	8	41.902996	-77.370667	0.012	0.002	0.135	0.025	PIPE; BRDG; FLACT



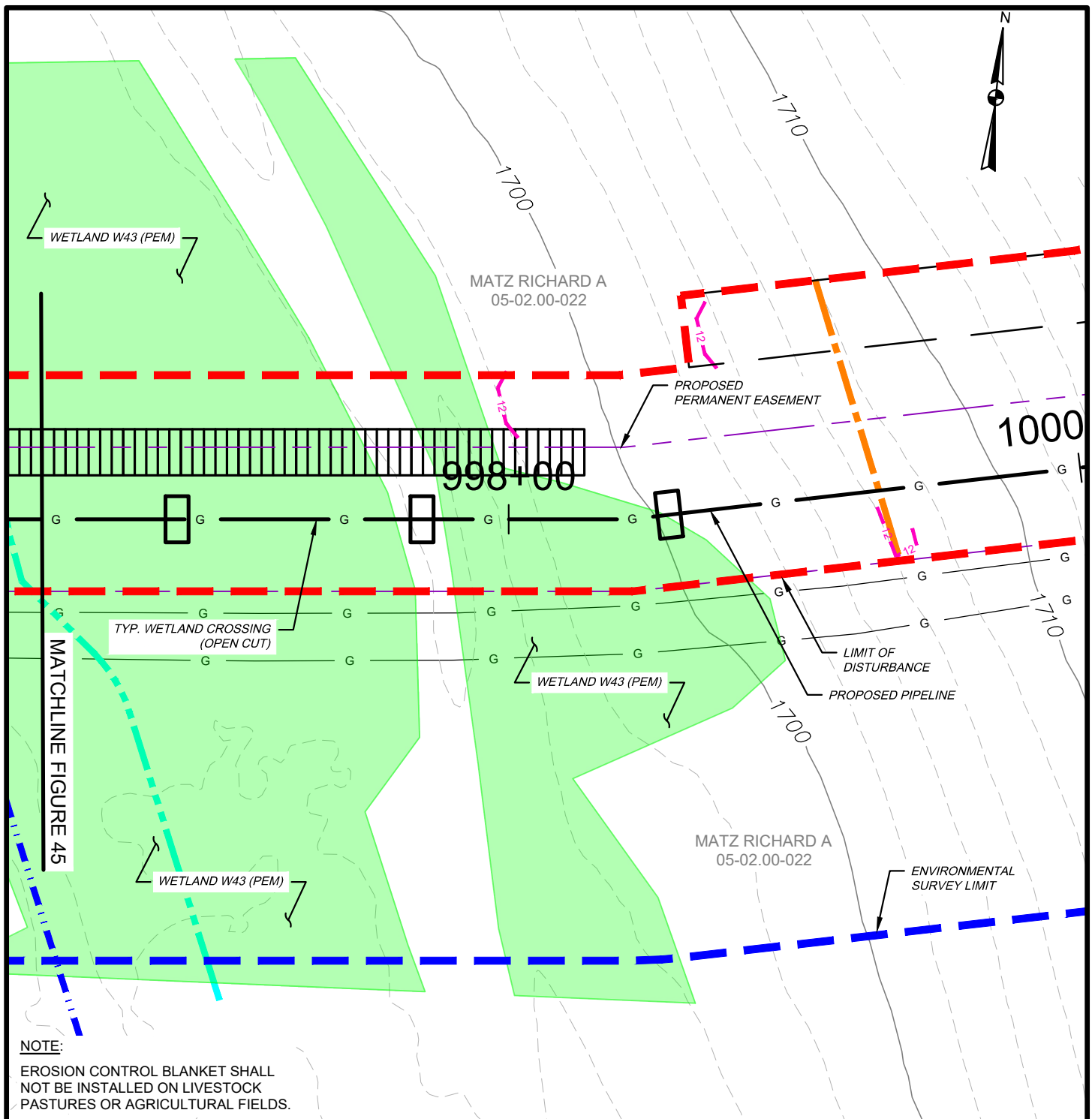
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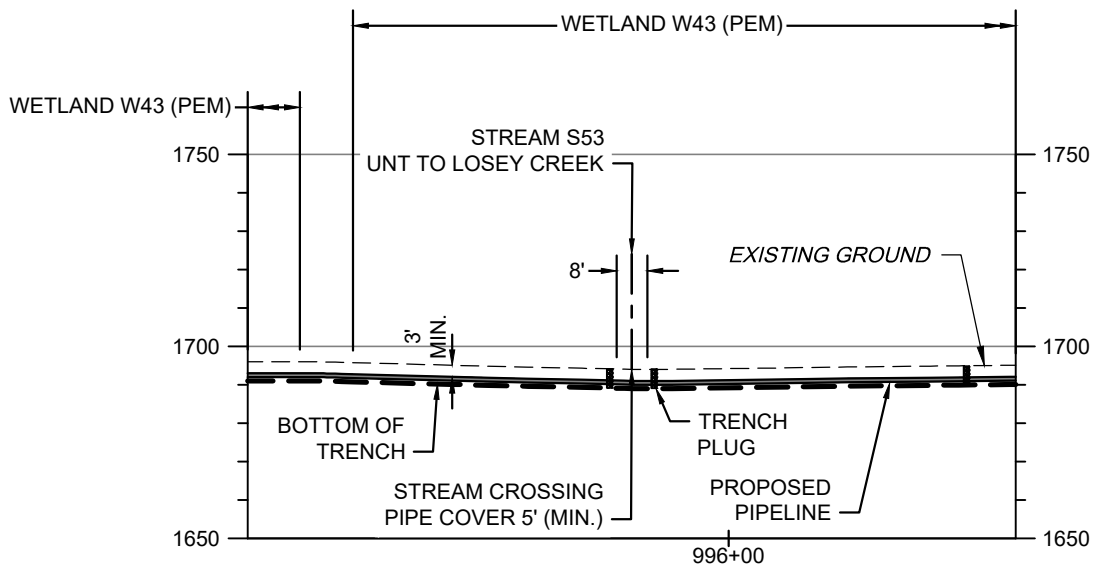
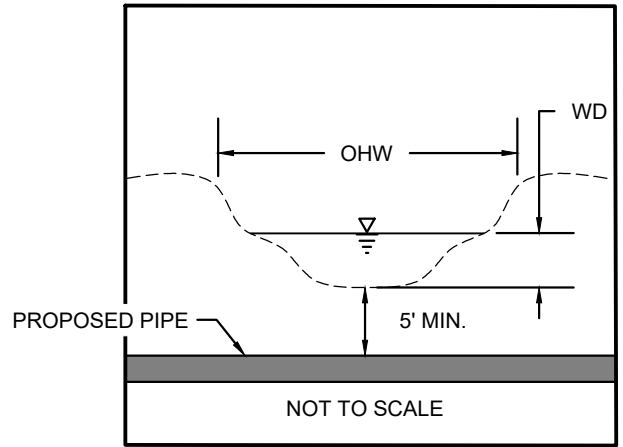
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YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 45



S53 BANK TO BANK WIDTH (OHW) = 8'
S53 WATER DEPTH (WD) = 5"



SCALE: HORIZ: 1" = 50'
VERT: 1" = 50'

STREAM S53 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



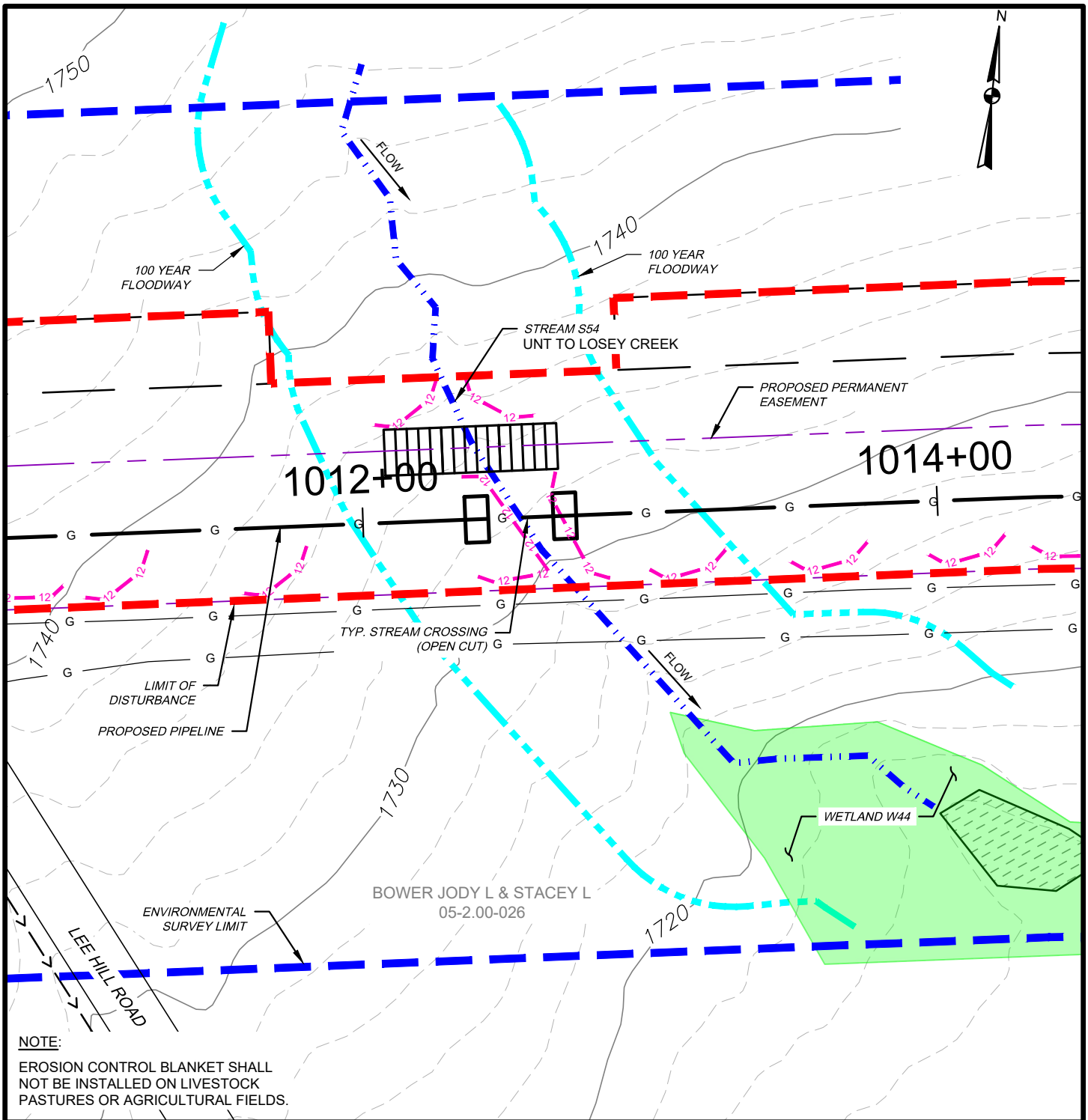
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YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
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FIGURE 45A	



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
19.17	S54	UNT TO LOSEY CREEK	EPHEMERAL	1	41.904183	-77.364778	0.002	0.000	0.175	0.028	PIPE; BRDG; FLACT



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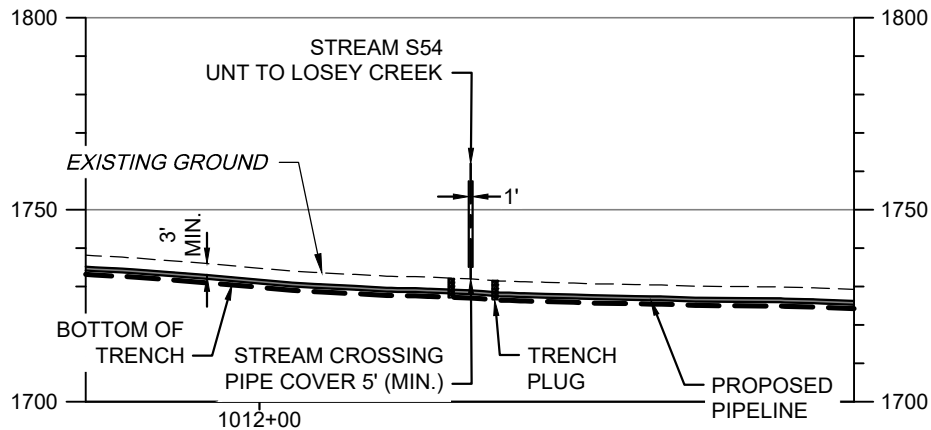
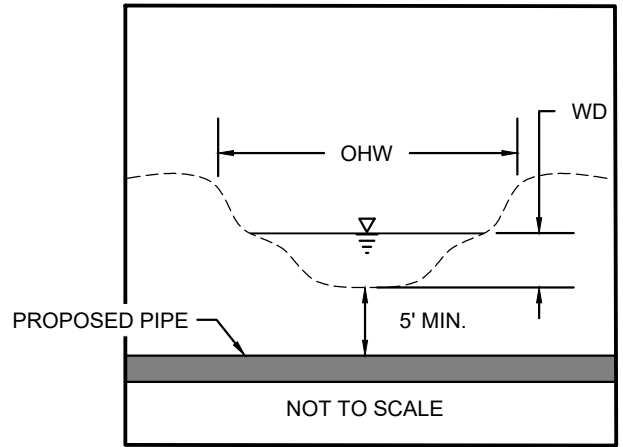
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SITE SPECIFICS
YM59 PIPELINE
CHATHAM TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 46	

S54 BANK TO BANK WIDTH (OHW) = 1'
 S54 WATER DEPTH (WD) = 0"



SCALE: HORIZ: 1" = 50'
 VERT: 1" = 50'

STREAM S54 - PIPELINE CROSSING PROFILE

NOTES:

1. THE EXISTING AND PROPOSED CONTOURS WILL BE THE SAME. THE STREAM WILL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
2. STREAMS WITH PERCEPTIBLE FLOW WILL BE CROSSED USING A DRY CONSTRUCTION METHOD. HOWEVER, STREAMS WITH NO FLOW AT TIME OF CONSTRUCTION WILL BE OPEN CUT.



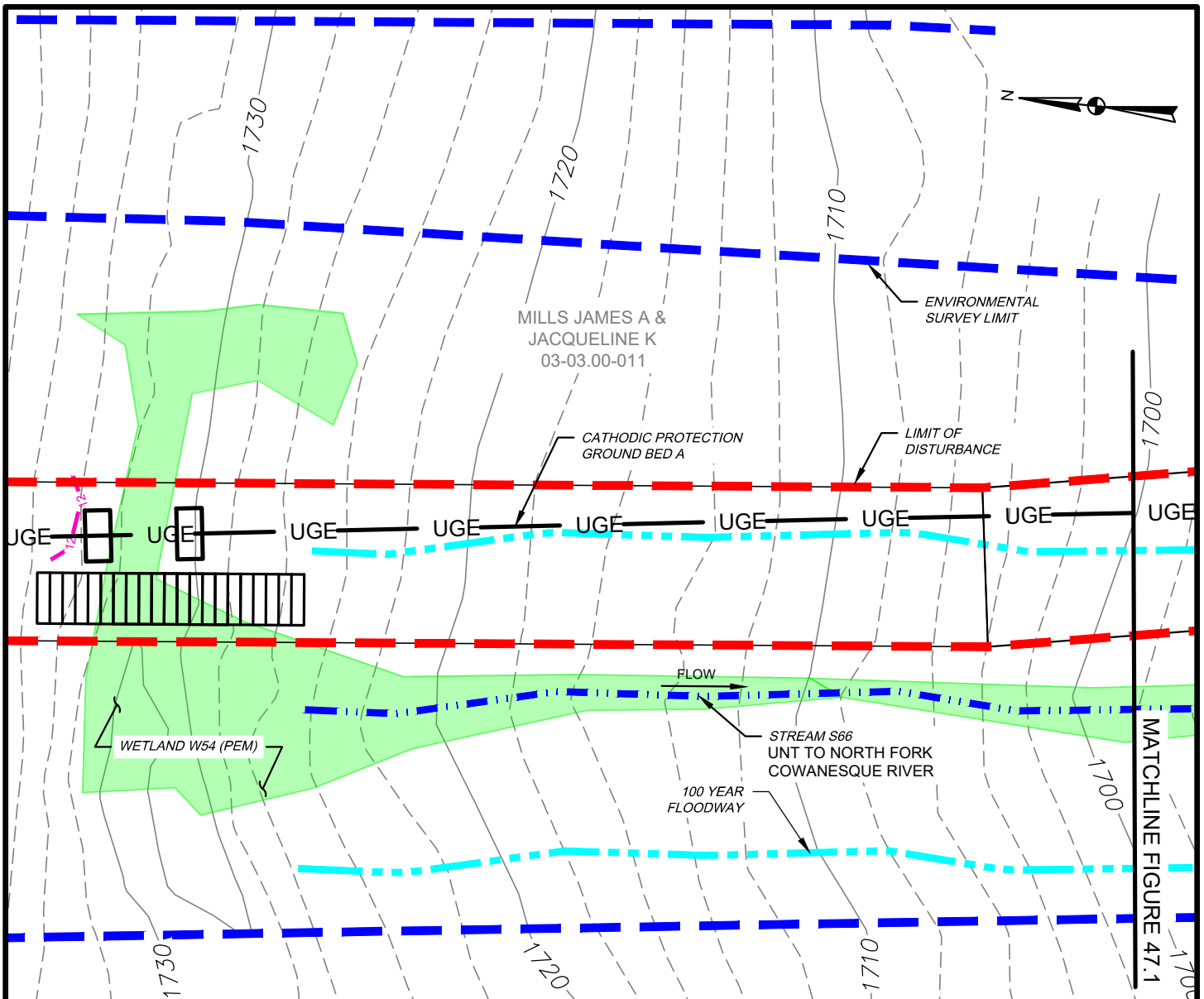
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 SITE SPECIFICS
 YM59 PIPELINE
 CHATHAM TWP, TIOGA COUNTY
 SCALE: AS NOTED

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FIGURE 46A	



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
CATHODIC PROTECTION GROUND BED (A) (YM59 3.8)	W54	41.957508	-77.593568	BROOKFIELD	0.018	-	-	0.011	-	-	PIPE; TMPWI; WTDIM

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
CATHODIC PROTECTION GROUND BED (A) (YM59 3.8)	S66	UNT TO N. FORK COWANESQUE RIV.	EPHEMERAL	1	41.957978	-77.593752	0.000	0.000	0.188	0.000	FLACT



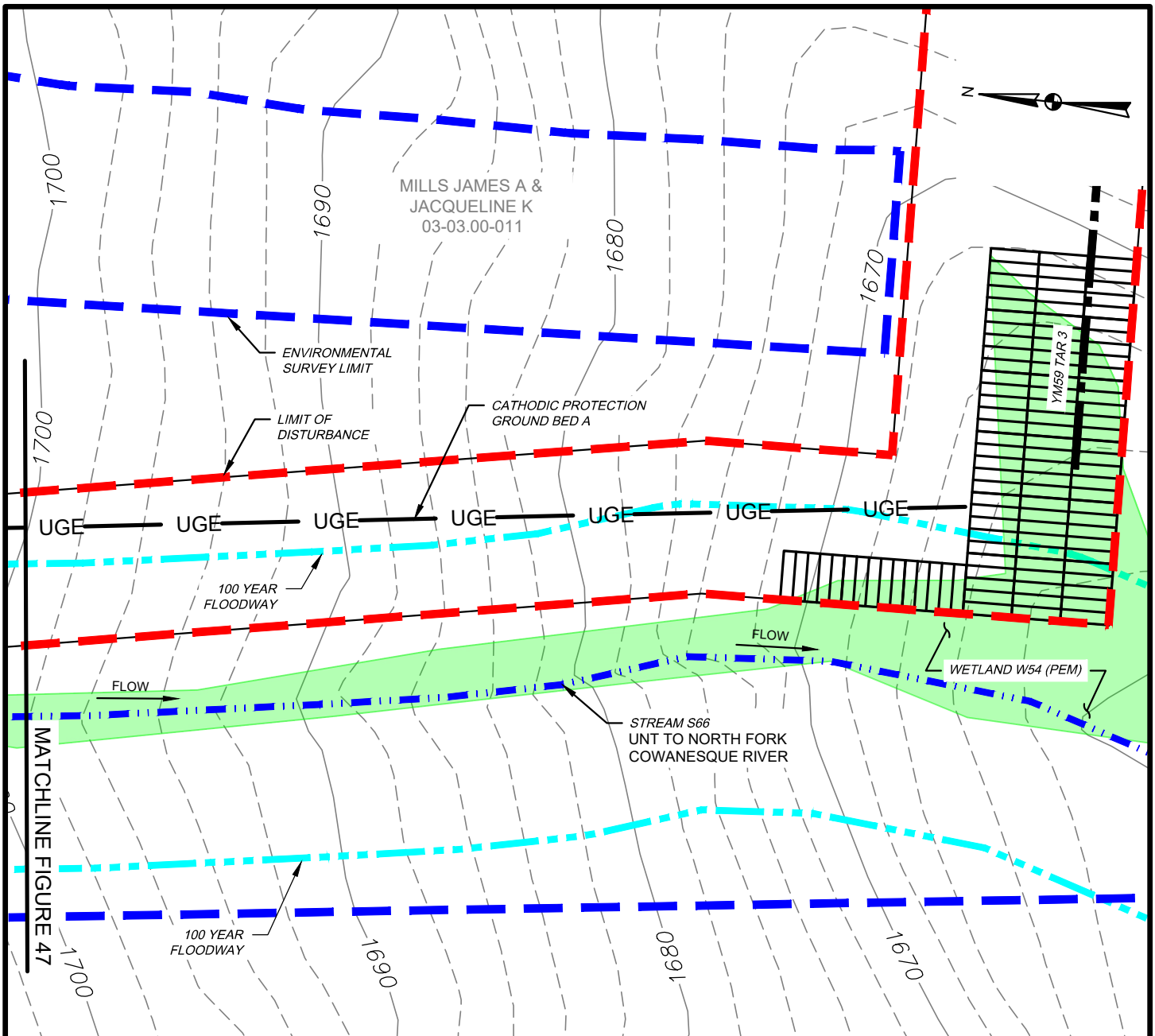
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SITE SPECIFICS
YM59 PIPELINE
BROOKFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE: 11/01/2024
PROJECT NO.: 212C-BF-00493
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FIGURE 47



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
YM59 TAR 3	W54	41.957508	-77.593568	BROOKFIELD	0.103	-	-	0.000	-	-	TMPWI

WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
YM59 TAR 3	S66	UNT TO N. FORK COWANESQUE RIV.	EPHEMERAL	1	41.957978	-77.593752	0.000	0.000	0.248	0.000	FLACT



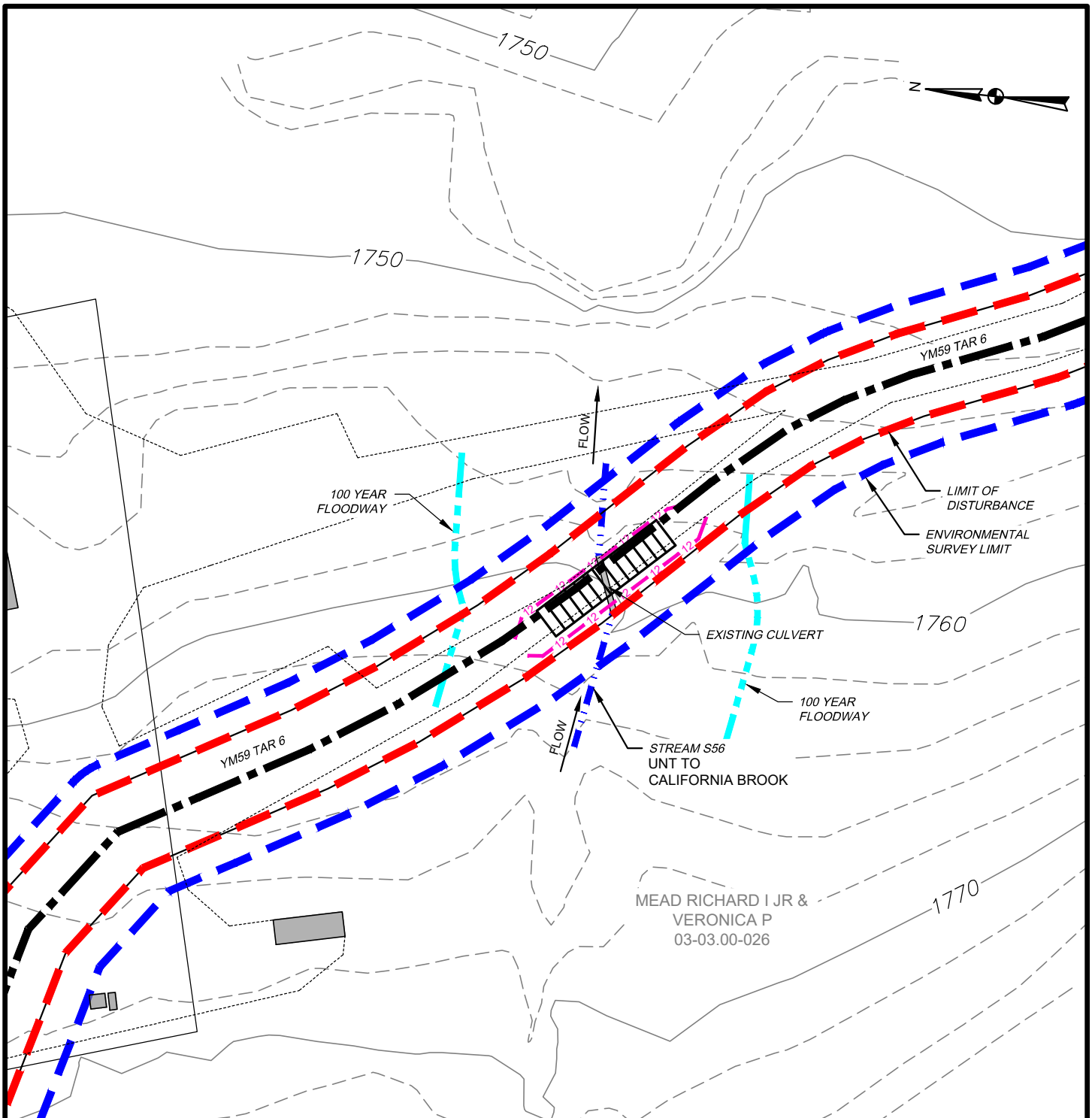
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NATIONAL FUEL GAS SUPPLY CORPORATION
TIOGA PATHWAY PROJECT
SITE SPECIFICS
ACCESS ROADS (YM59 PIPELINE)
BROOKFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE:	11/01/2024
PROJECT NO.:	212C-BF-00493
DESIGNED BY:	BC
DRAWN BY:	BC / JZ
CHECKED BY:	RD
SHEET:	2 OF 2
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WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
YM59 TAR 6	S56	UNT TO CALIFORNIA BROOK	INTERMITTENT	7	41.964514	-77.561691	0.006	0.000	0.095	0.000	EXISTING CULVERT; FLACT



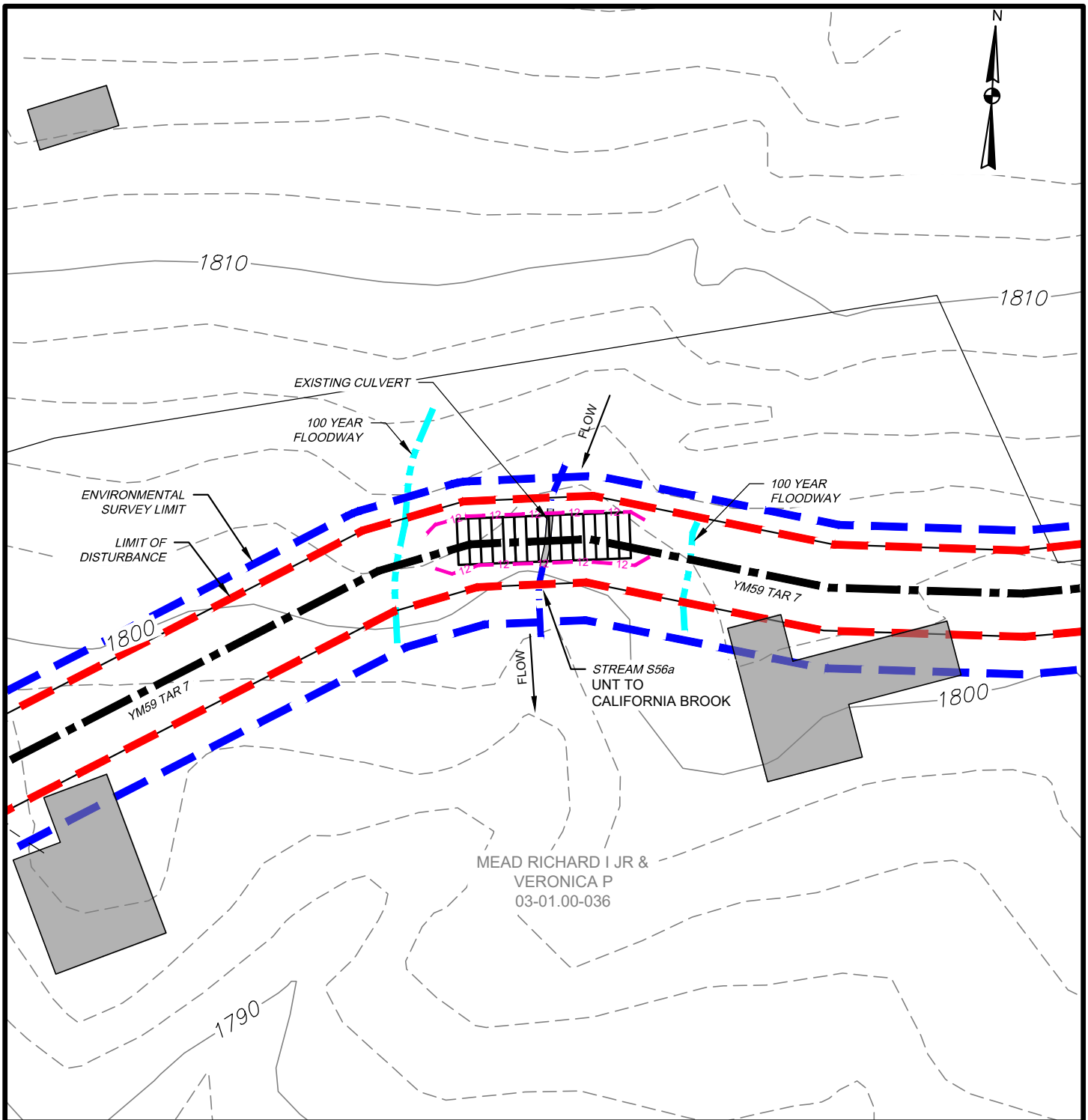
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TIOGA PATHWAY PROJECT
SITE SPECIFICS
ACCESS ROADS (YM59 PIPELINE)
BROOKFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

DATE:	11/01/2024
PROJECT NO.:	212C-BF-00493
DESIGNED BY:	BC
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FIGURE 48	



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
YM59 TAR 7	S56a	UNT TO CALIFORNIA BROOK	EPHEMERAL	1	41.97045	-77.561435	0.001	0.000	0.072	0.000	EXISTING CULVERT; FLACT



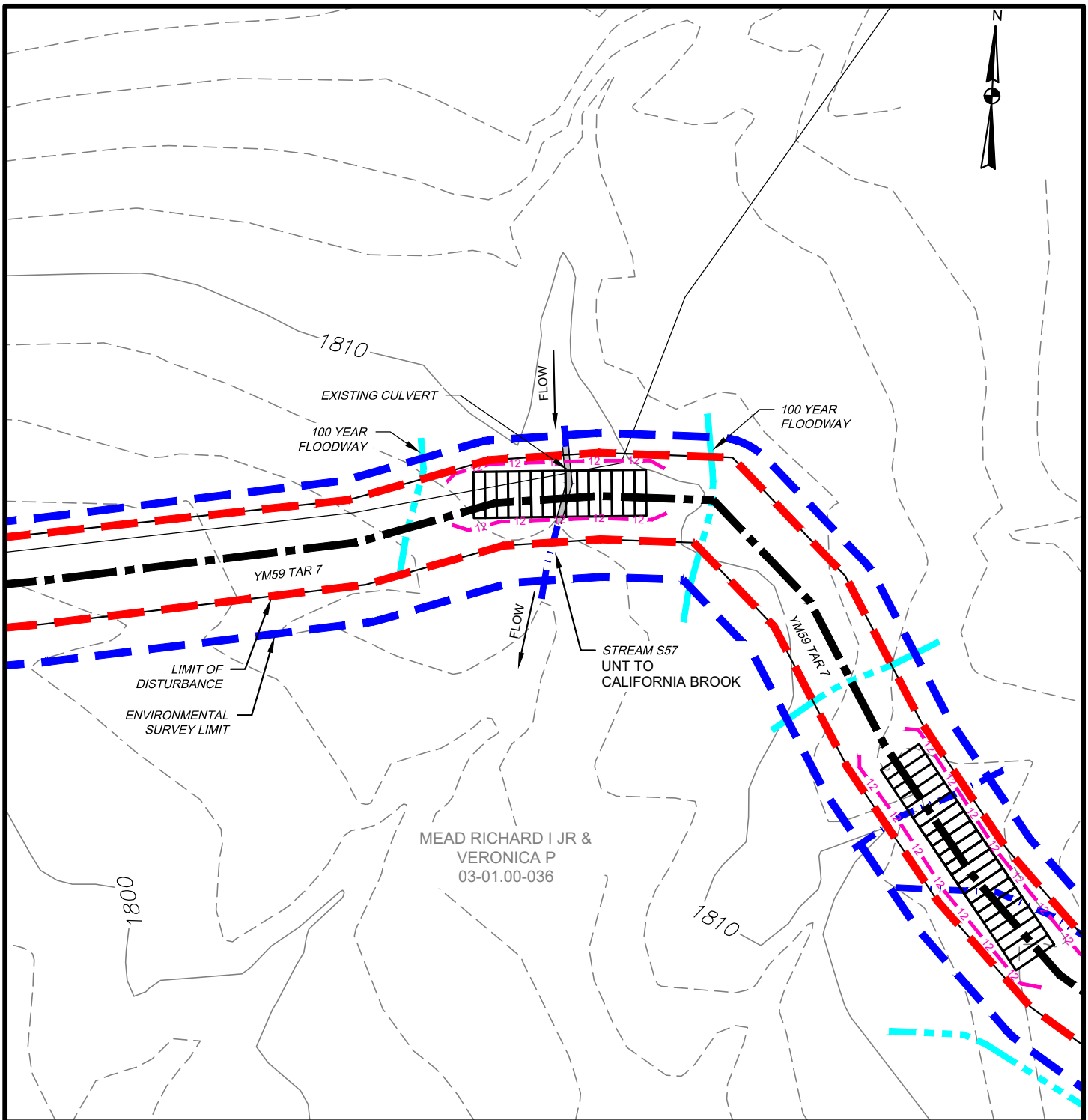
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FIGURE 49	



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
YM59 TAR 7	S57	UNT TO CALIFORNIA BROOK	INTERMITTENT	3	41.970564	-77.559798	0.002	0.000	0.075	0.000	EXISTING CULVERT; FLACT



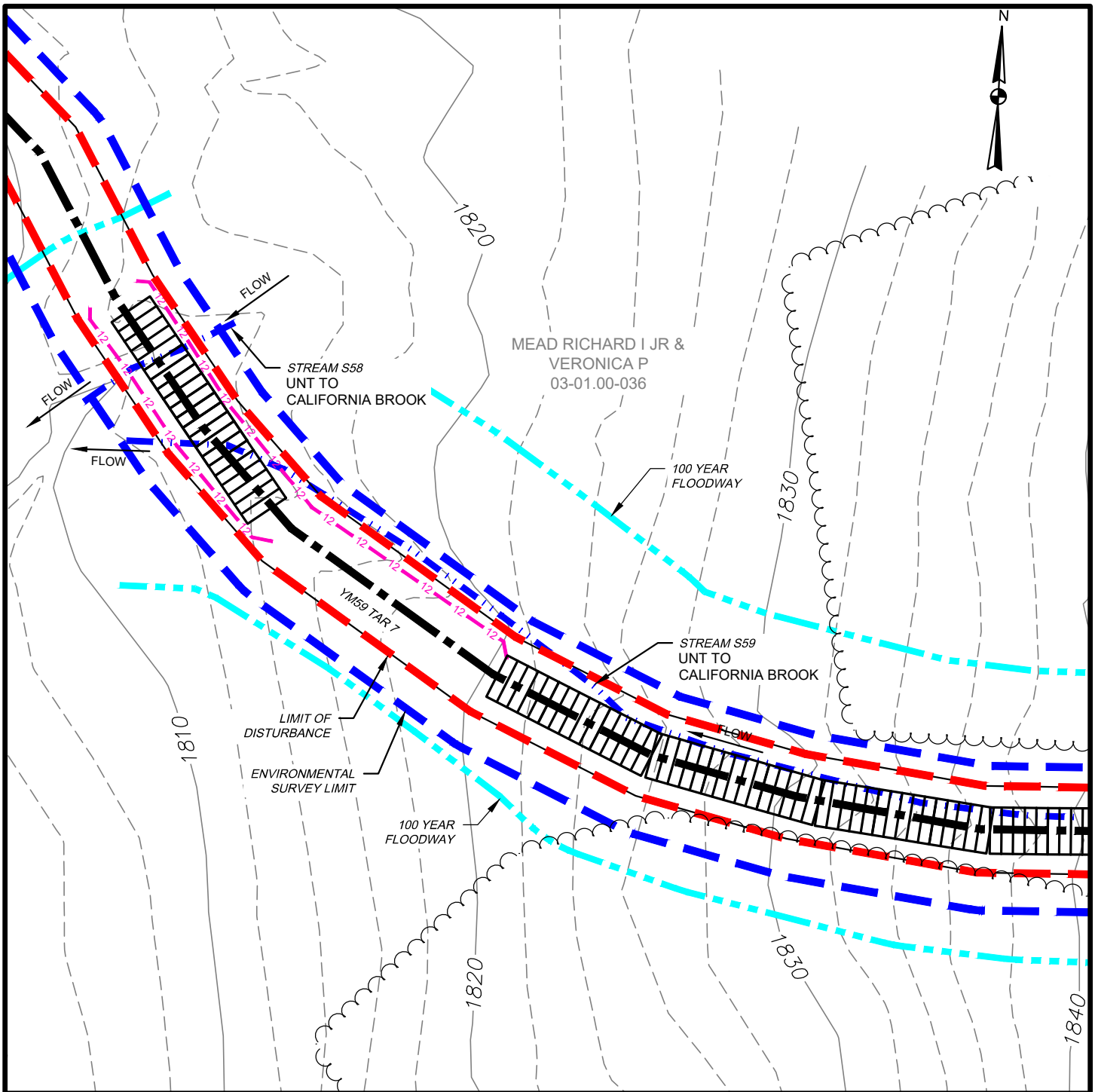
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BROOKFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 50	



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
YM59 TAR 7	S58	UNT TO CALIFORNIA BROOK	EPHEMERAL	3	41.970287	-77.559319	0.002	0.000	0.336	0.000	CULV/BRDG; FLACT
YM59 TAR 7	S59	UNT TO CALIFORNIA BROOK	EPHEMERAL	2	41.970209	-77.559236	0.012	0.000			CULV/BRDG; FLACT



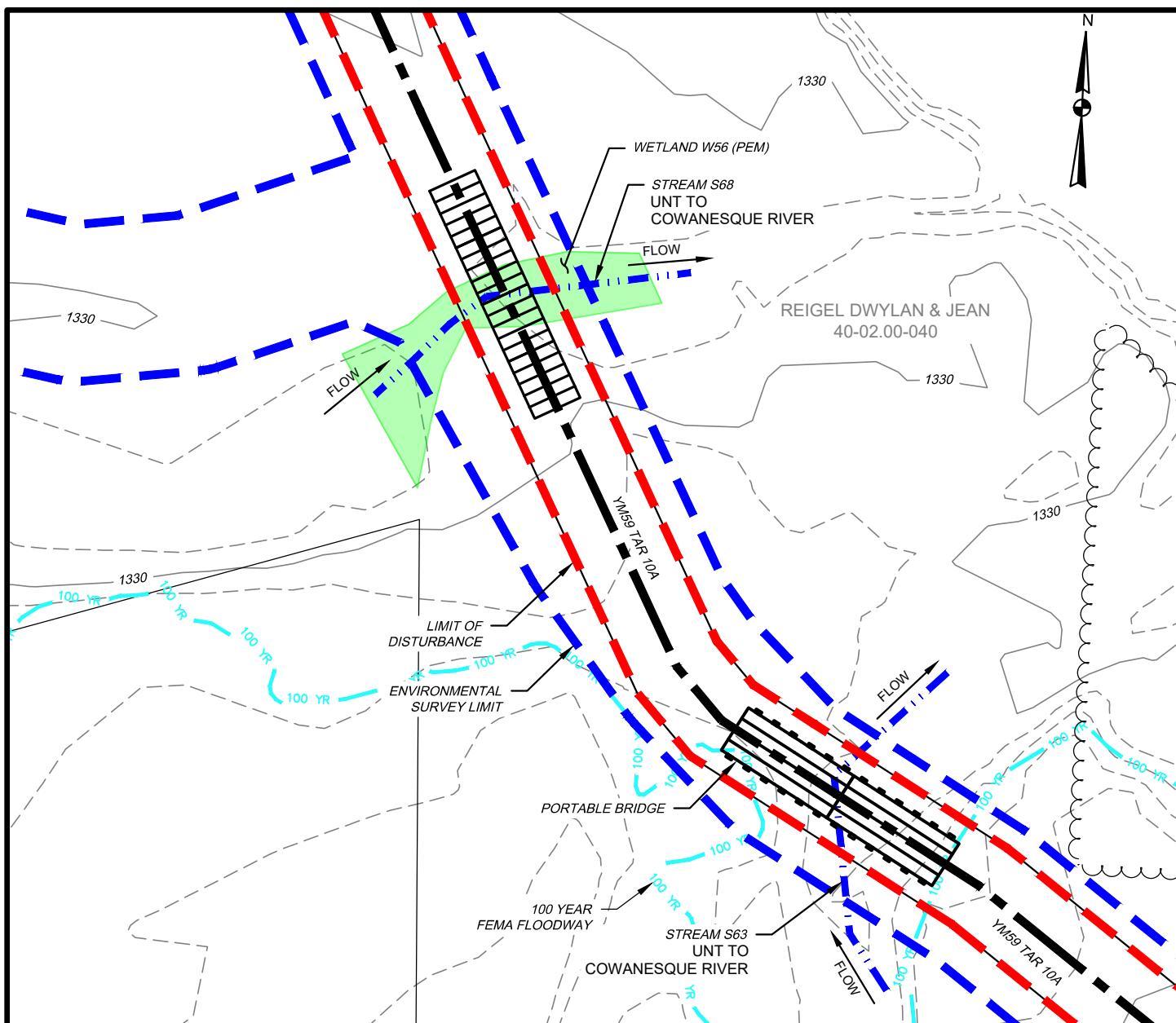
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ACCESS ROADS (YM59 PIPELINE)
BROOKFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

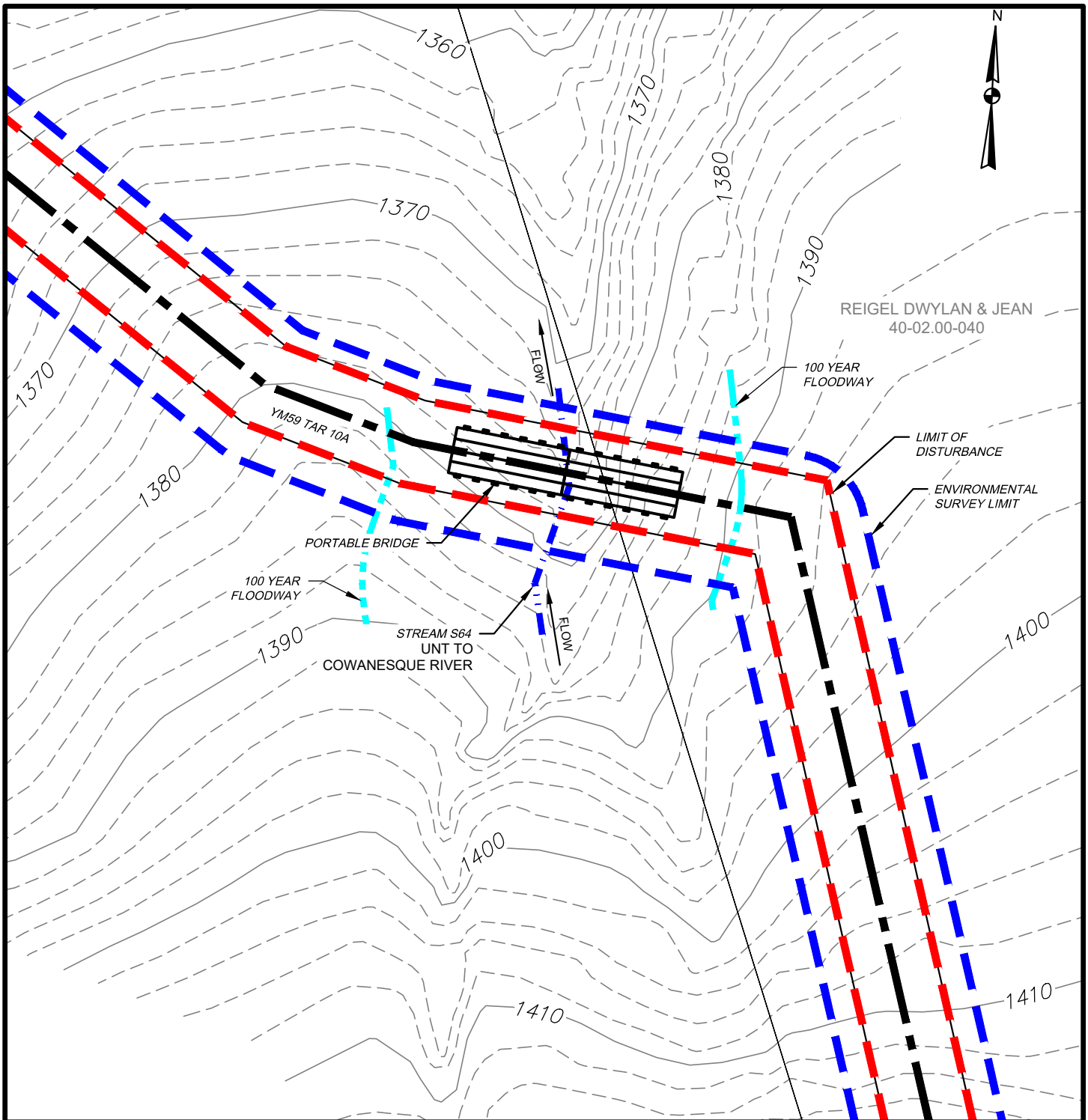
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WETLAND IMPACT											
APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
YM59 TAR 10A	W56	41.924483	-77.521624	WESTFIELD	0.013	-	-	0.000	-	-	TMPWI

WATERBODY IMPACT											
MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
YM59 TAR 10A	S63	UNT TO COWANESQUE RIV.	PERENNIAL	50	41.924073	-77.521176	0.041	0.000	1.078	0.000	CULV/BRDG; FLACT
YM59 TAR 10A	S68	UNT TO COWANESQUE RIV.	PERENNIAL	6	41.924484	-77.52163	0.004	0.000			CULV/BRDG; FLACT

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		PROJECT NO.: 212C-BF-00493 DESIGNED BY: BC DRAWN BY: BC / JZ CHECKED BY: RD SHEET: 1 OF 1 COPYRIGHT TETRA TECH INC. FIGURE 52



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
YM59 TAR 10A	S64	UNT TO COWANESQUE RIV.	PERENNIAL	20	41.922196	-77.517457	0.014	0.000	0.086	0.000	BRDG; FLACT



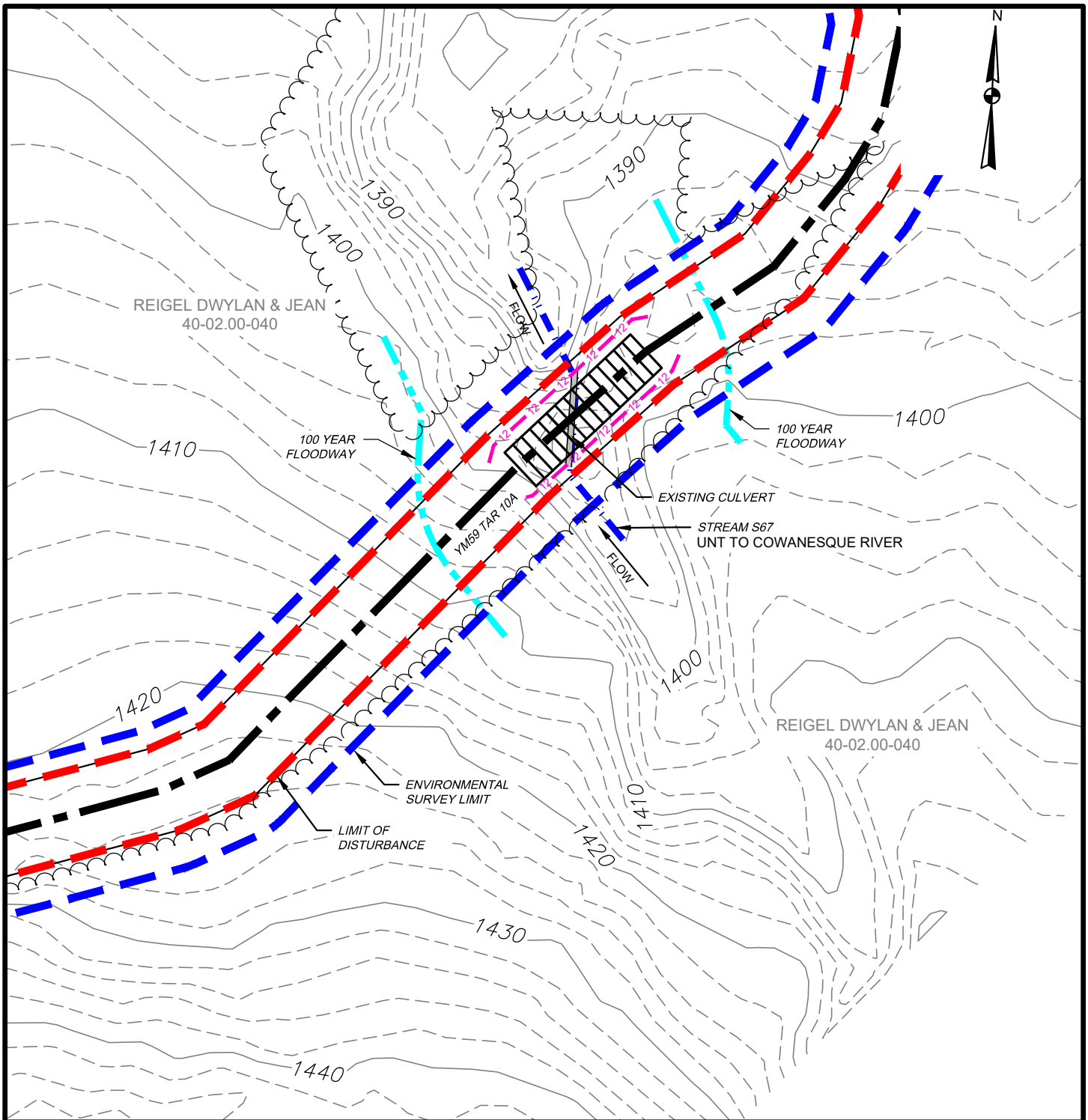
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SITE SPECIFICS
ACCESS ROADS (YM59 PIPELINE)
WESTFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 53



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
YM59 TAR 10A	S67	UNT TO COWANESQUE RIV.	PERENNIAL	6	41.921871	-77.515732	0.006	0.000	0.087	0.000	EXISTING CULVERT; FLACT



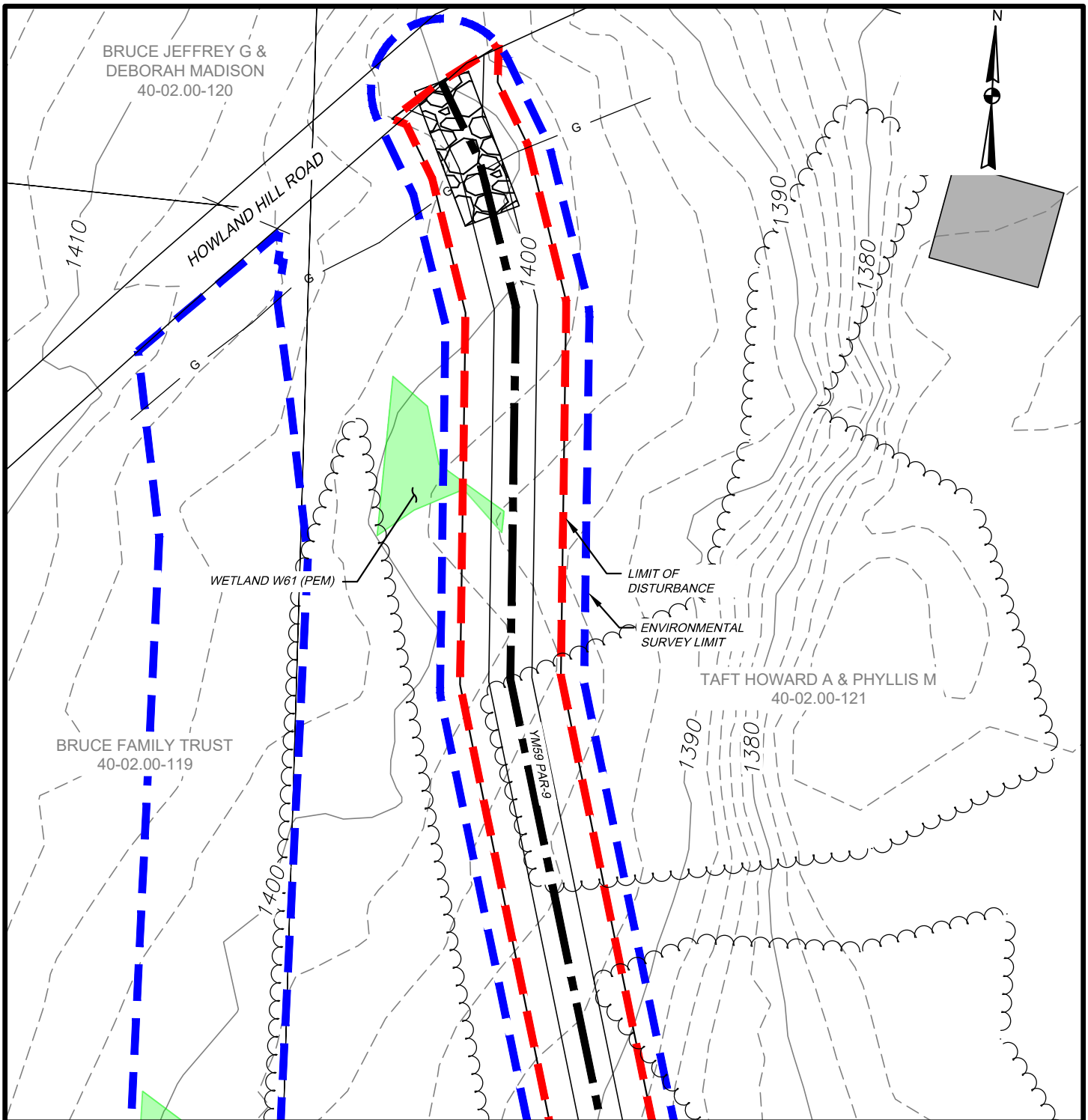
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SITE SPECIFICS
ACCESS ROADS (YM59 PIPELINE)
WESTFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 54



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
YM59 PAR 9	W61	41.915268	-77.482257	WESTFIELD	0.000	-	-	0.002	-	-	WTDIM



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TIOGA PATHWAY PROJECT

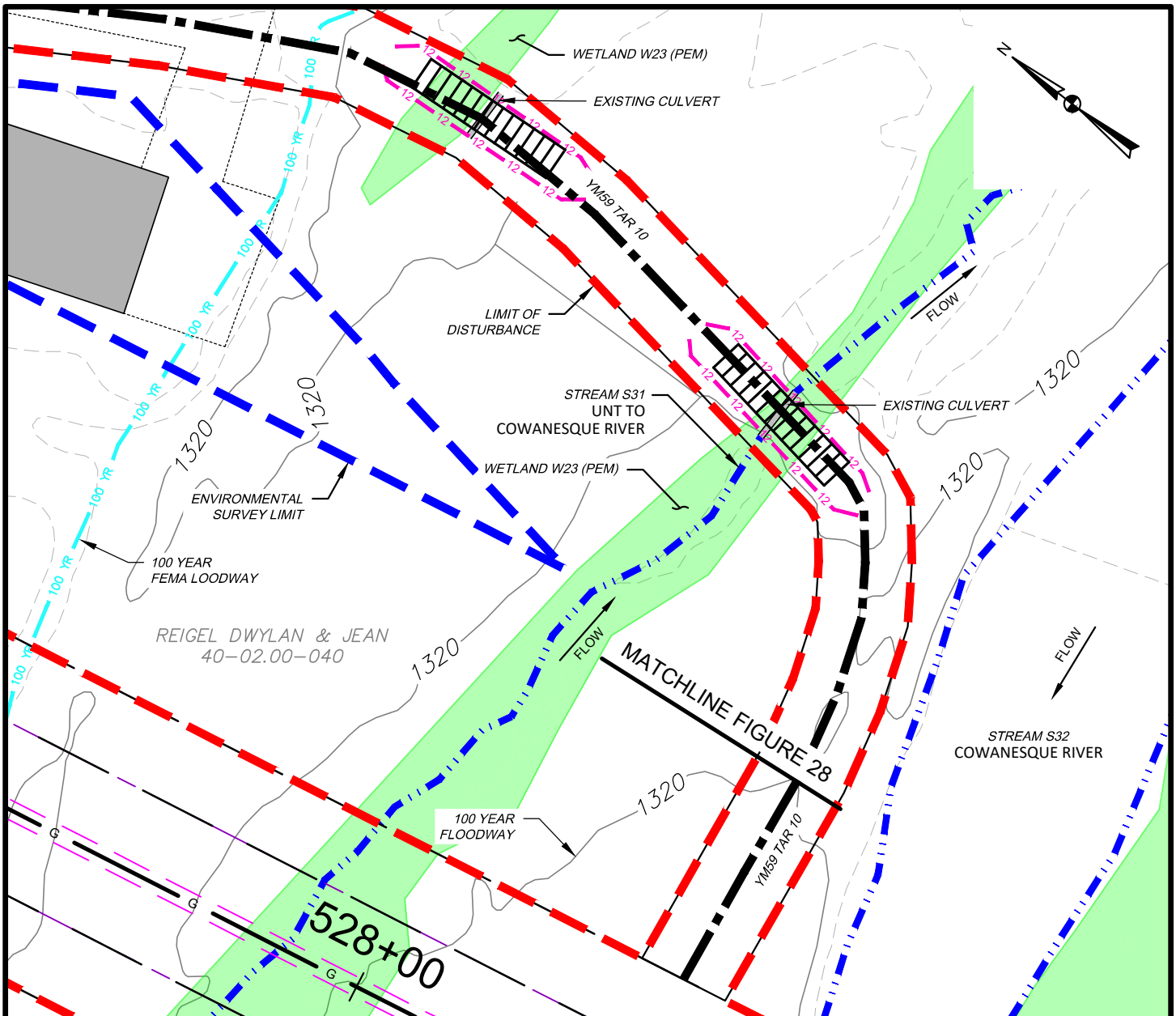
SITE SPECIFICS
ACCESS ROADS (YM59 PIPELINE)
WESTFIELD TWP, TIOGA COUNTY

SCALE: 1" = 50'

DATE: 11/01/2024
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FIGURE 55



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
YM59 TAR 10	S31	UNT TO COWANESQUE RIV.	PERENNIAL	5	41.925356	-77.515612	0.003	0.000	0.272	0.000	EXISTING CULVERT; FLACT
YM59 TAR 10	S32	COWANESQUE RIVER	PERENNIAL	59	41.925362	-77.515292	0.000	0.000			FLACT

WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
YM59 TAR 10	W23	41.925518	-77.51516	WESTFIELD	0.025	-	-	0.000	-	-	TMPWI



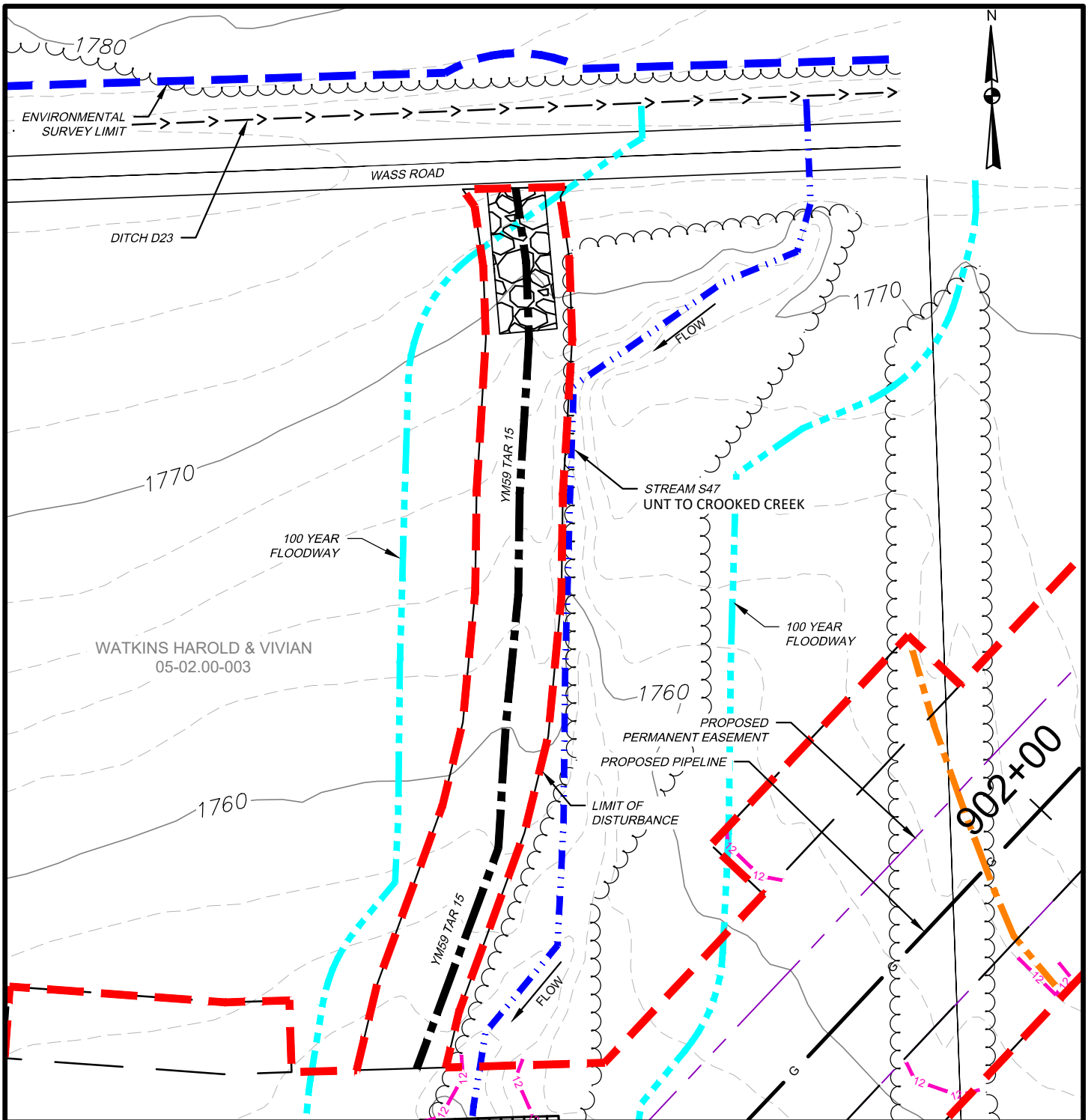
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WESTFIELD TWP, TIOGA COUNTY
SCALE: 1" = 50'

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FIGURE 56



WATERBODY IMPACT

MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
YM59 TAR 15	S47	UNT TO CROOKED CREEK	PERENNIAL	15	41.903658	-77.402068	0.014	0.000	0.207	0.000	FLACT



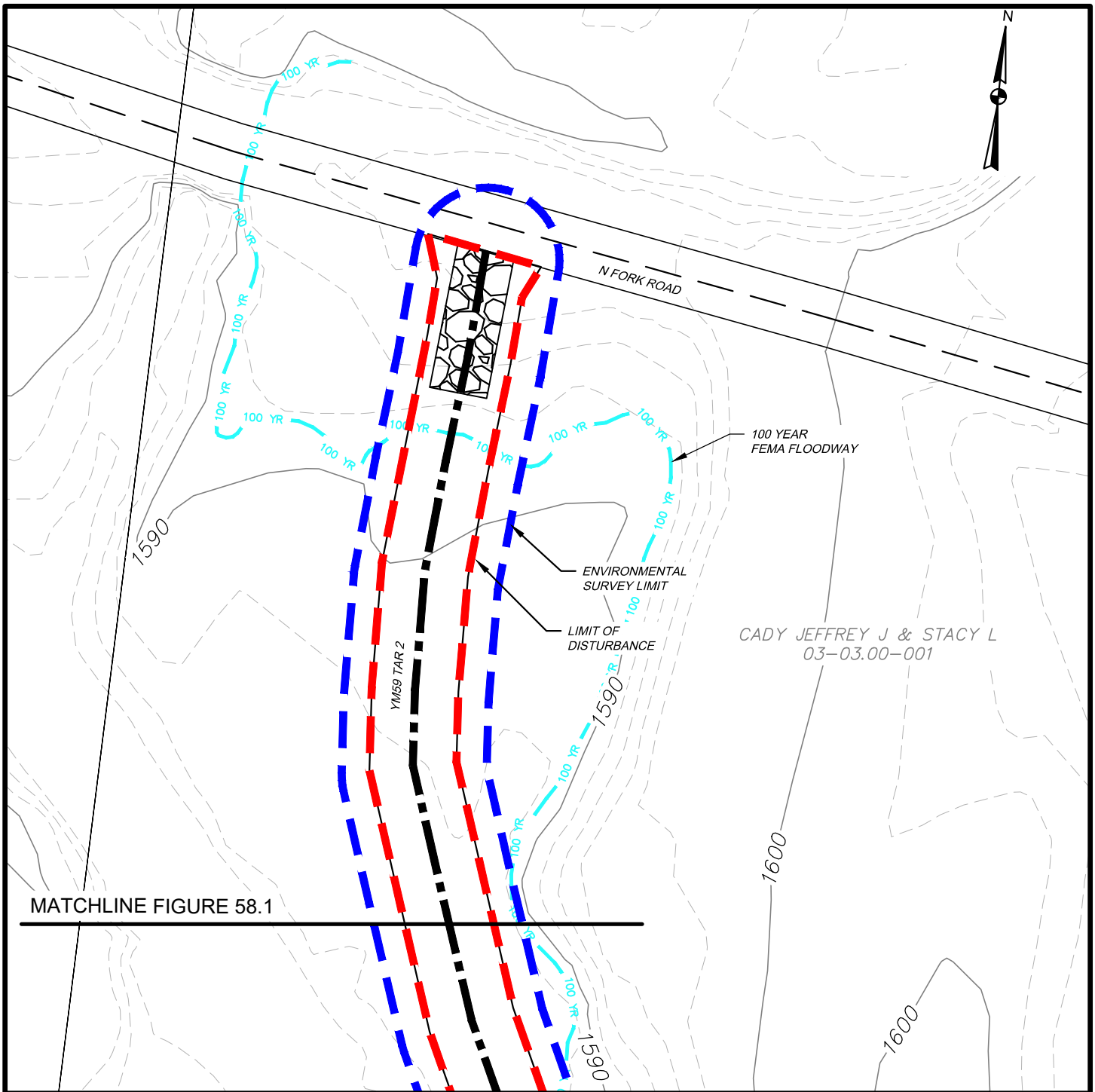
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FIGURE 57	



MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
YM59 TAR 2	S19	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	10	41.959119	-77.604038	0.000	0.000	0.353	0.000	FLACT
YM59 TAR 2	S20	NORTH FORK COWANESQUE RIV.	PERENNIAL	25	41.958269	-77.604058	0.000	0.000			FLACT

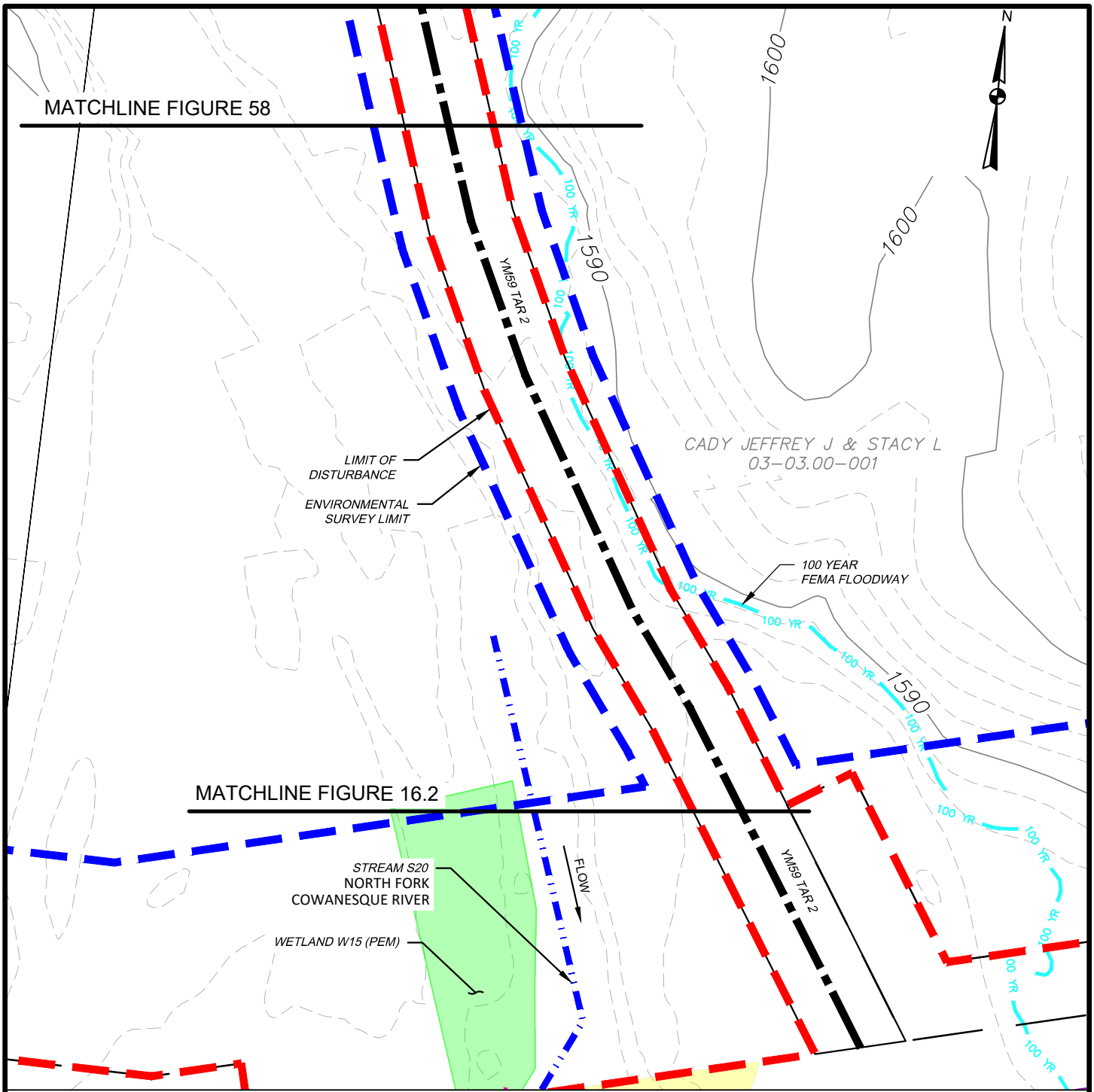
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FIGURE 58



MILEPOST	FEATURE I.D.	STREAM NAME	FLOW REGIME	BANK TO BANK WIDTH (FEET)	LATITUDE	LONGITUDE	STREAMS		FLOODWAYS		SUBFACILITY CODE
							TEMP. (AC.)	PERM. (AC.)	TEMP. (AC.)	PERM. (AC.)	
YM59 TAR 2	S19	UNT TO N. FORK COWANESQUE RIV.	PERENNIAL	10	41.959119	-77.604038	0.000	0.000	0.353	0.000	FLACT
YM59 TAR 2	S20	NORTH FORK COWANESQUE RIV.	PERENNIAL	25	41.958269	-77.604058	0.000	0.000			FLACT

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