

## **ATTACHMENT 6**

### **SITE PLANS**



# National Fuel<sup>®</sup>

## Supply Corporation

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COVER  
LEGEND  
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COVER  
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TIOGA COUNTY

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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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**LEGEND**



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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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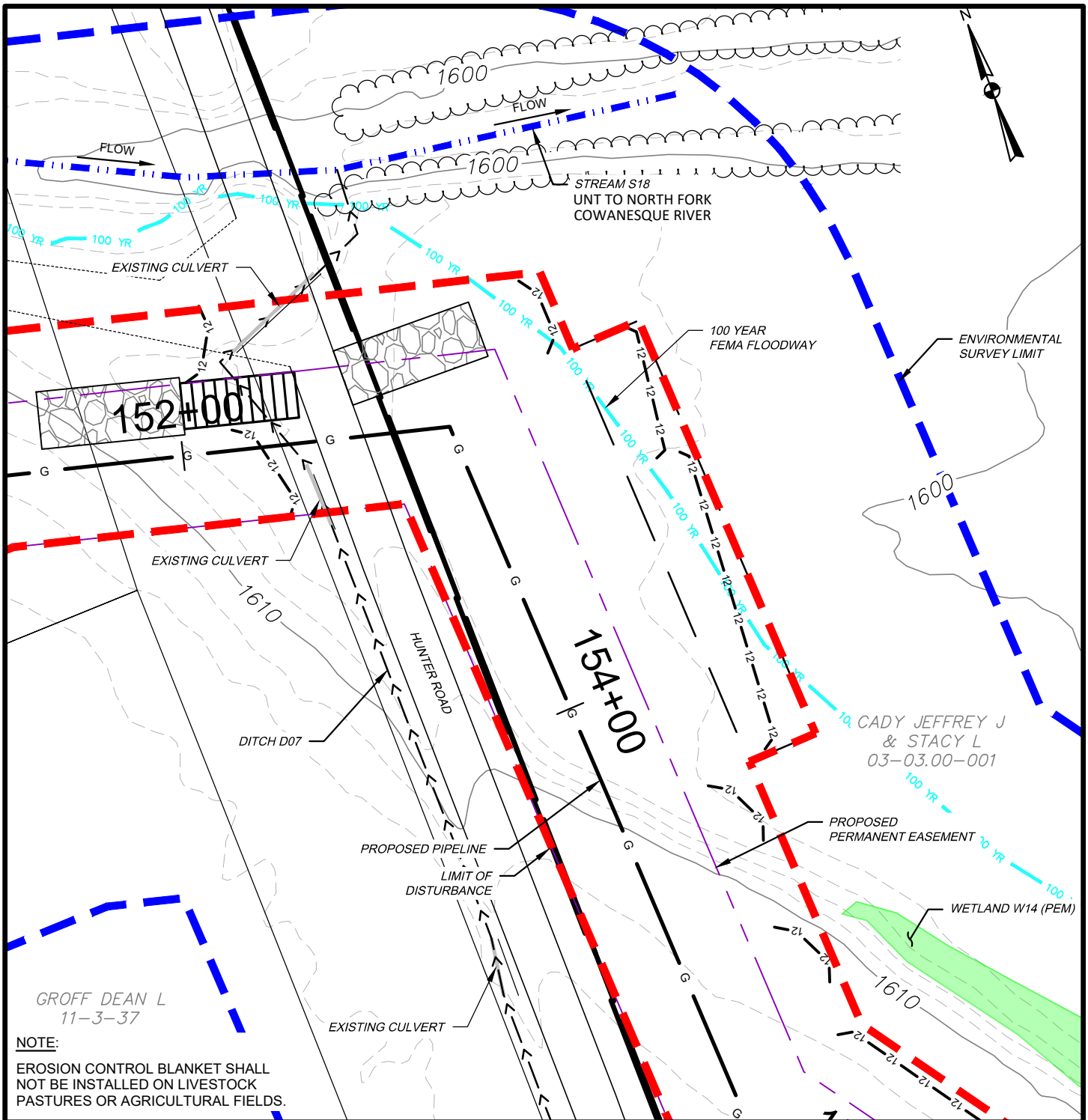
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TIOGA PATHWAY PROJECT

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

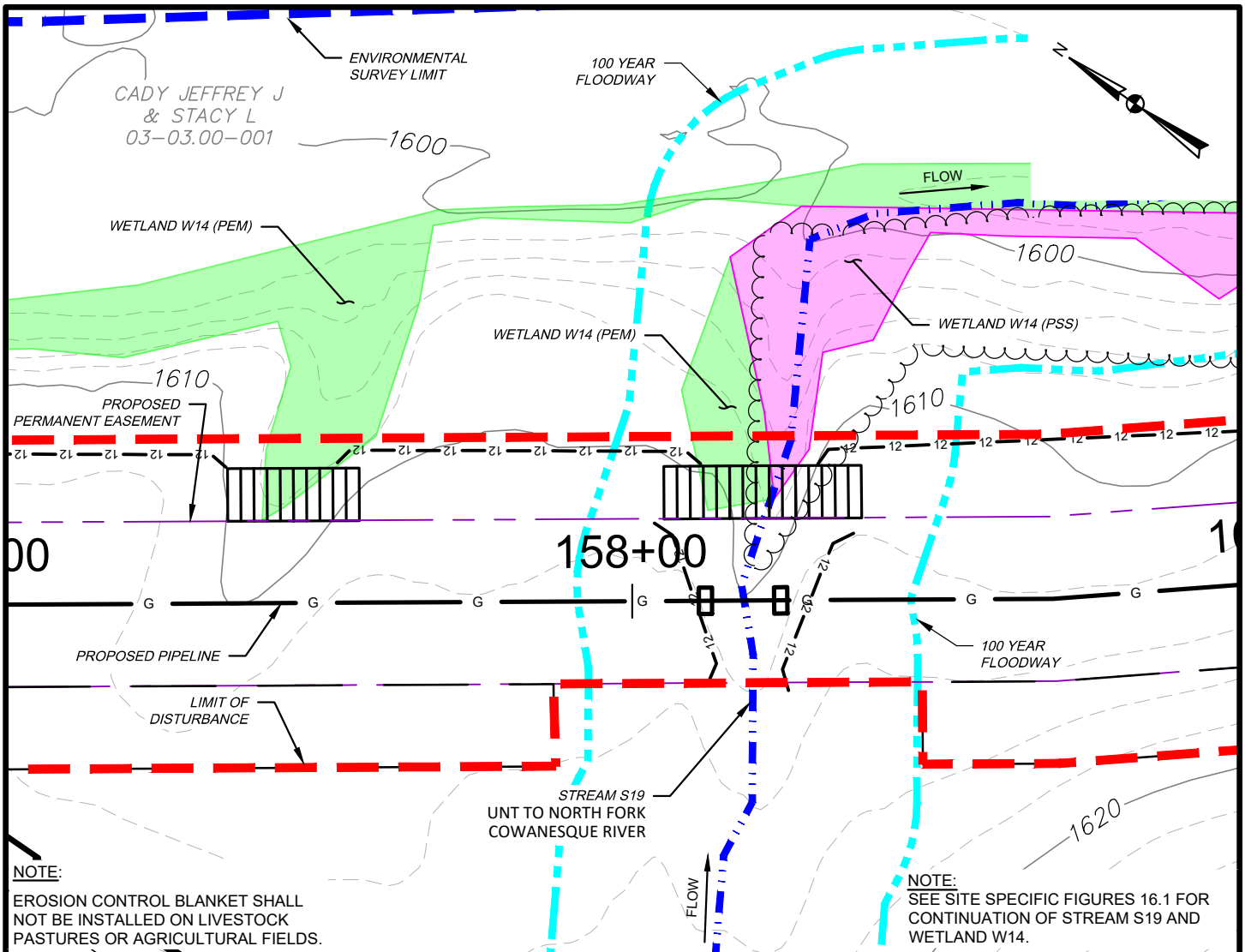


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 TIOGA PATHWAY PROJECT  
 SITE SPECIFICS  
 YM59 PIPELINE  
 BROOKFIELD TWP, TIOGA COUNTY  
 SCALE: 1" = 50'

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
									1.399	0.171	PIPE; BRDG; FLACT
3.25	S20	NORTH FORK COWANESQUE RIV.	PERENNIAL	25	41.958269	-77.604058	0.045	0.006			PIPE; BRDG; FLACT



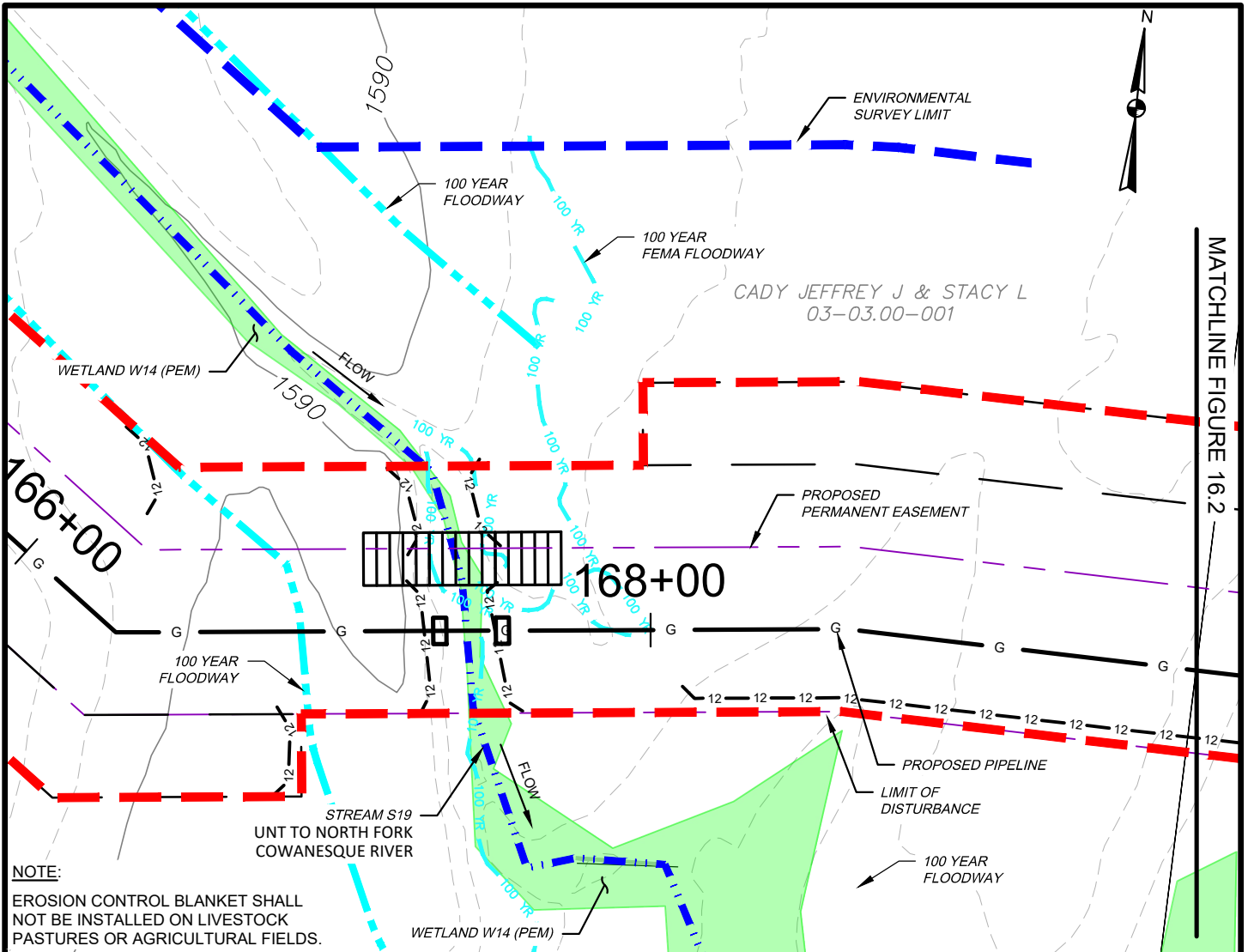
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**YM59 PIPELINE**  
**BROOKFIELD TWP, TIOGA COUNTY**  
 SCALE: 1" = 50'

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<b>FIGURE 16</b>	



**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			
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



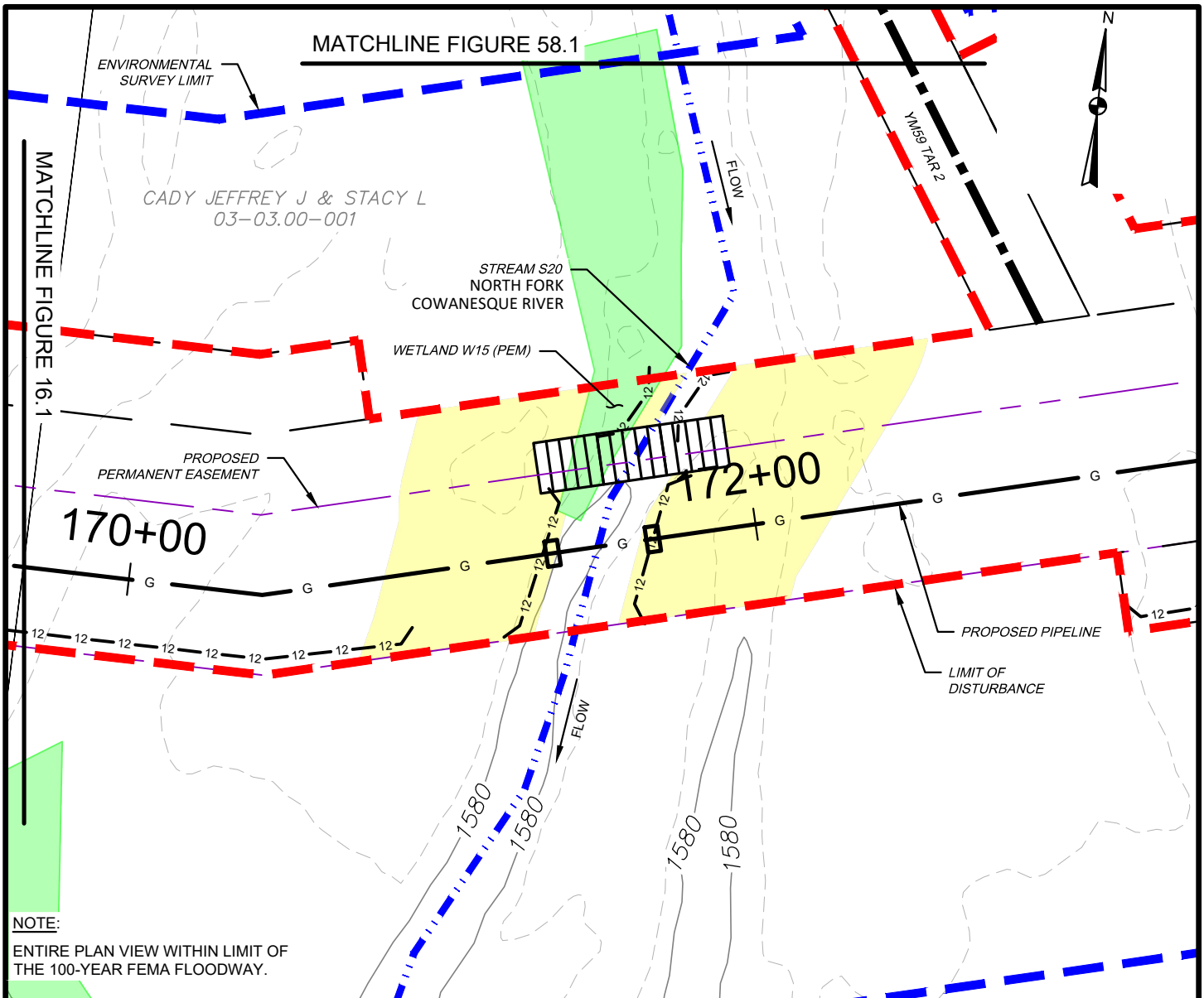
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**NOTE:**  
ENTIRE PLAN VIEW WITHIN LIMIT OF THE 100-YEAR FEMA FLOODWAY.

**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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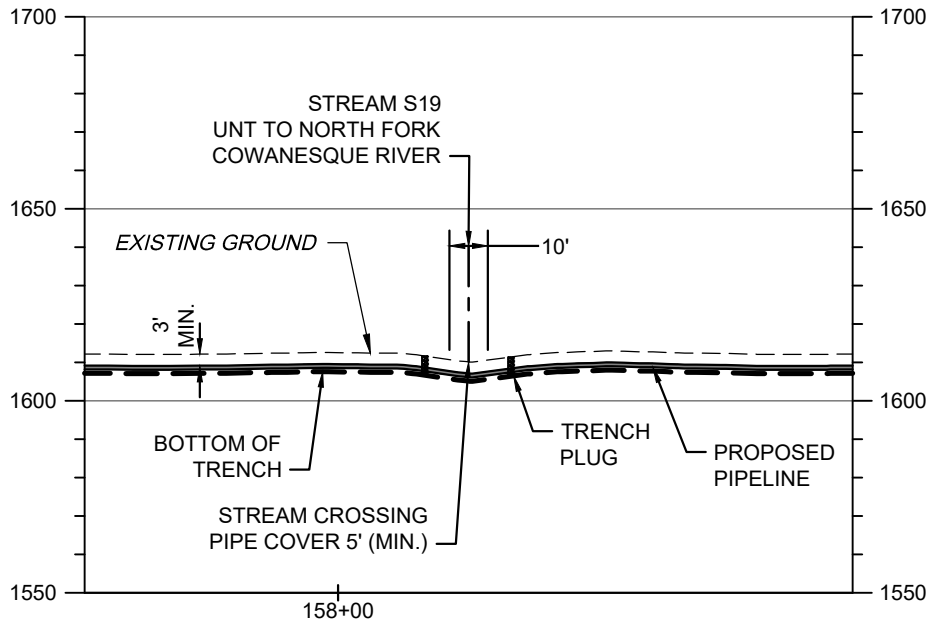
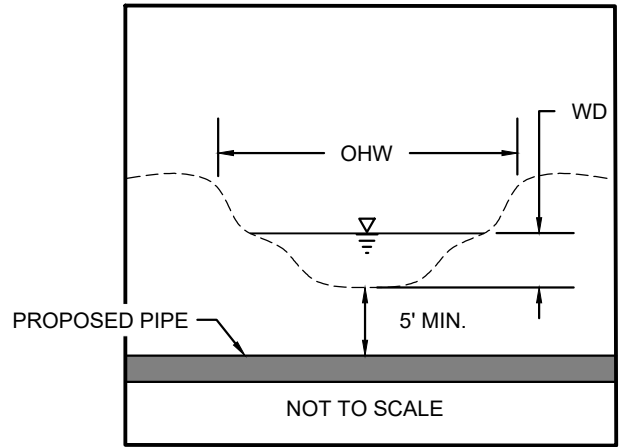
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**FIGURE 16.2**

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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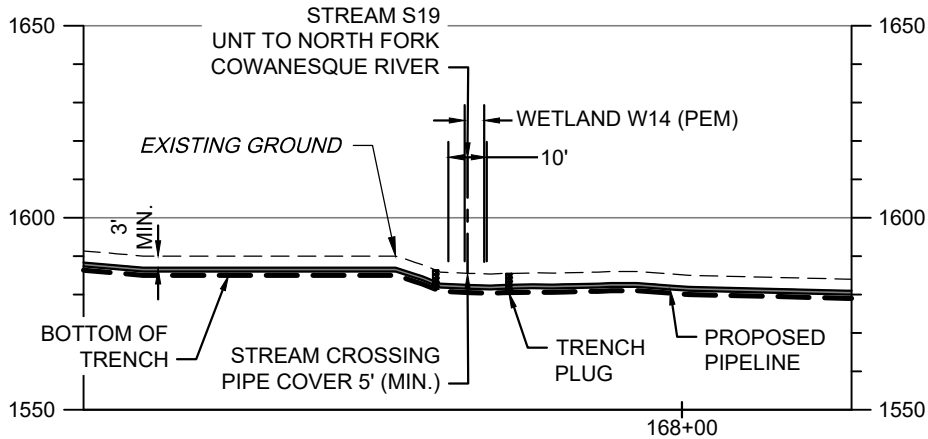
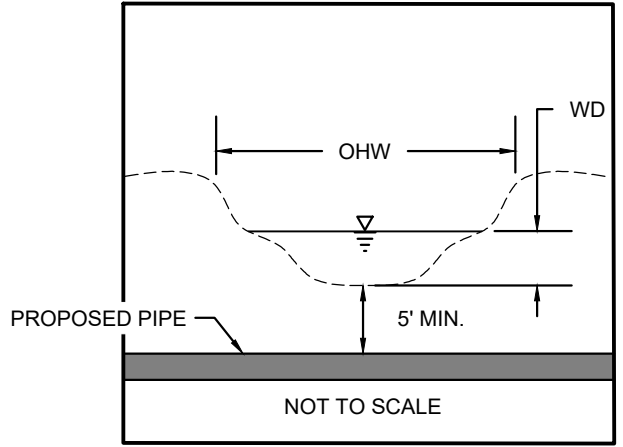
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**FIGURE 16A**

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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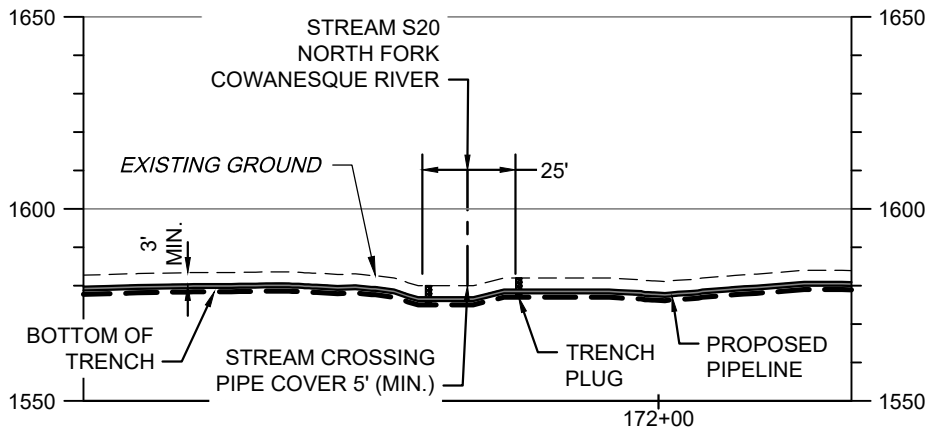
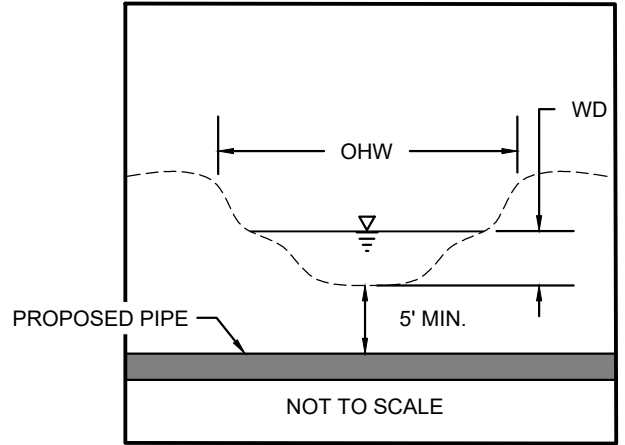
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**FIGURE 16B**

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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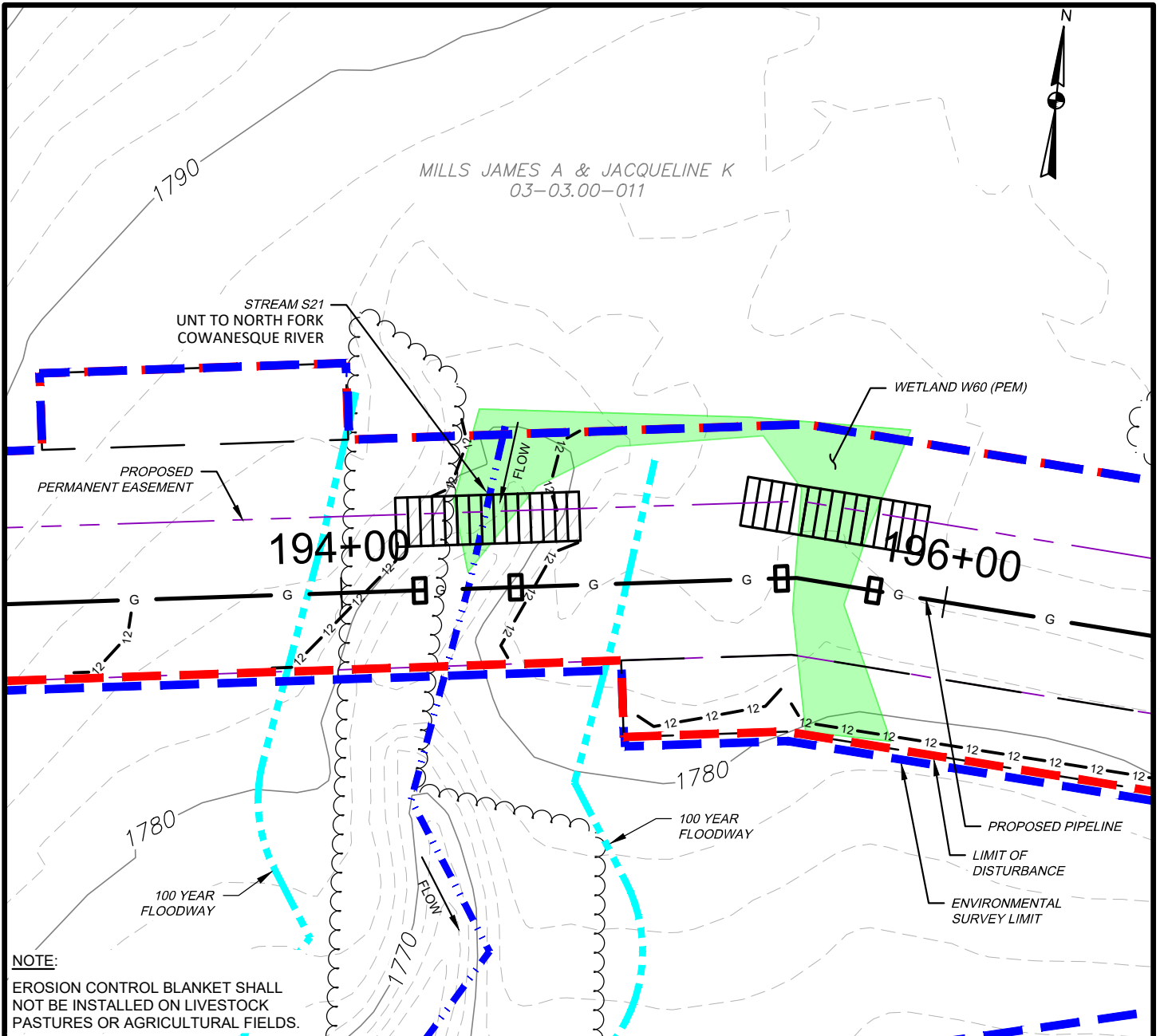
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SITE SPECIFICS  
 YM59 PIPELINE  
 BROOKFIELD TWP, TIOGA COUNTY  
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**FIGURE 16C**



**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	
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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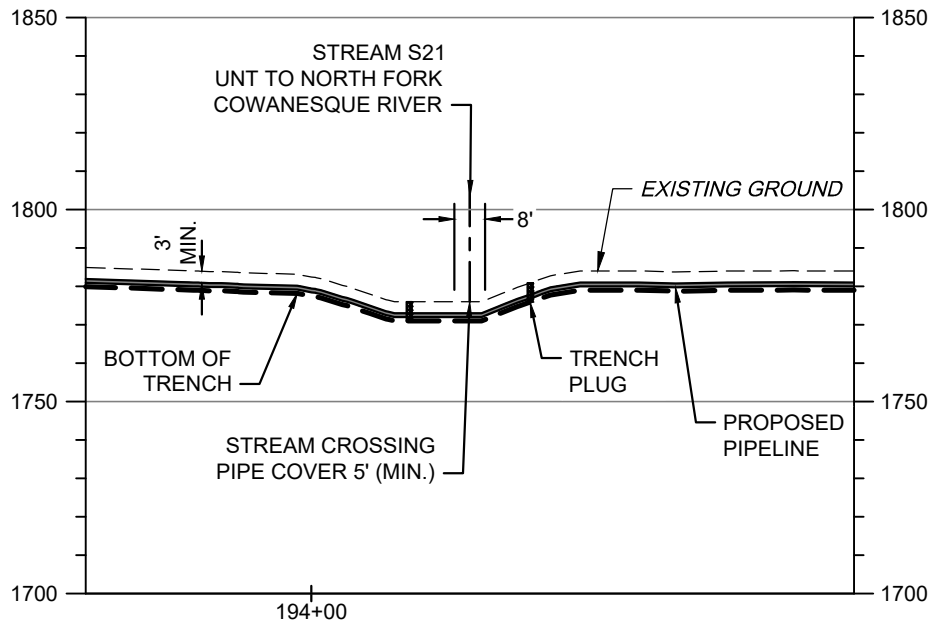
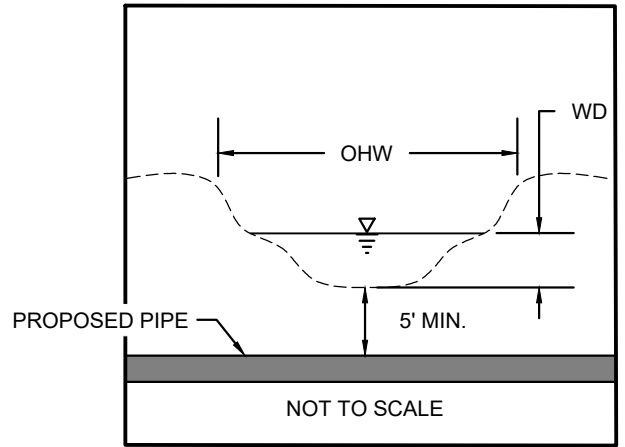
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 SITE SPECIFICS  
 YM59 PIPELINE  
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 SCALE: 1" = 50'

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**FIGURE 17**

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



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

**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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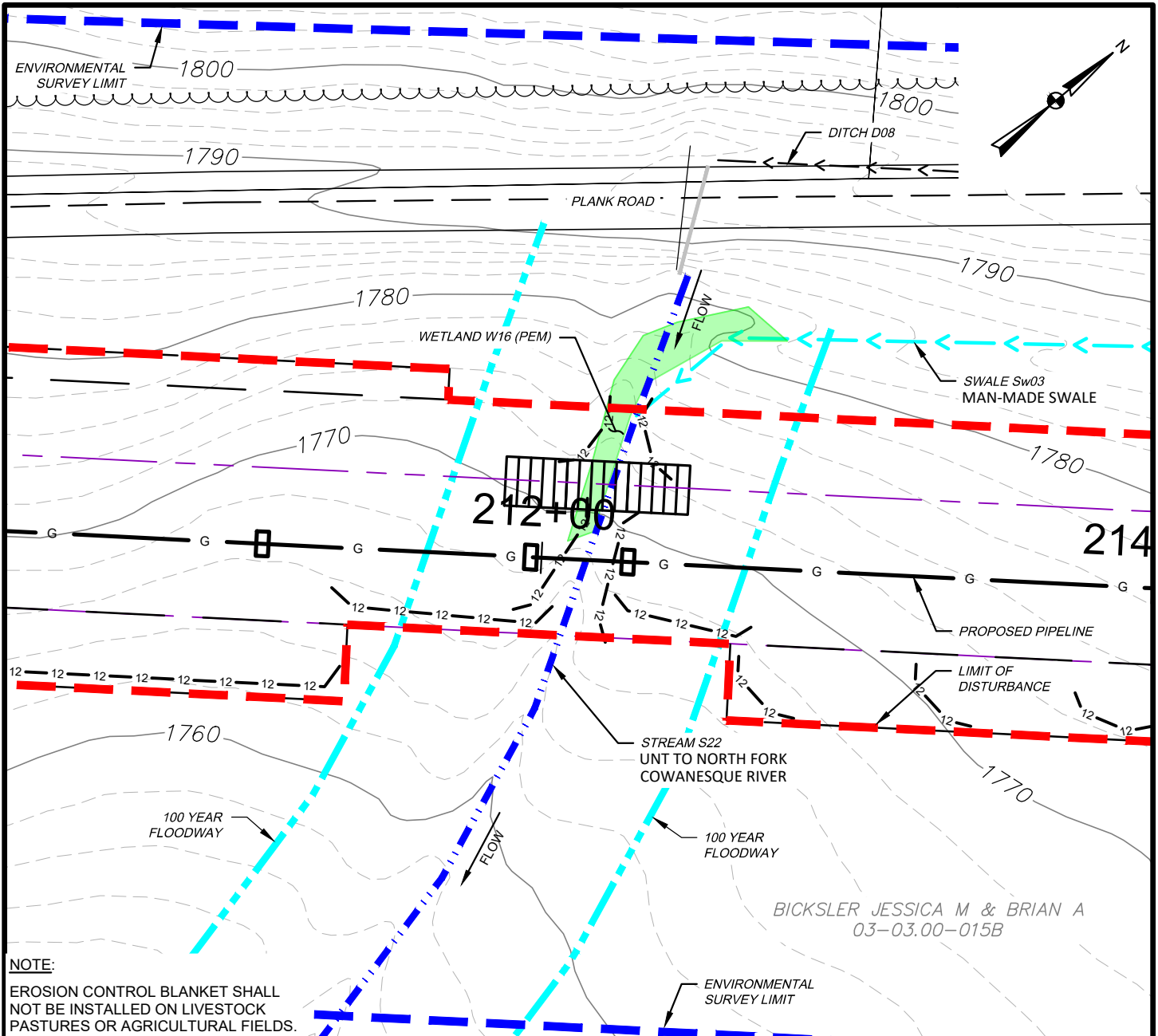
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**FIGURE 17A**



BICKSLER JESSICA M & BRIAN A  
03-03.00-015B

**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	
4.02	W16	41.962623	-77.581196	BROOKFIELD	0.008	-	-	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.)	
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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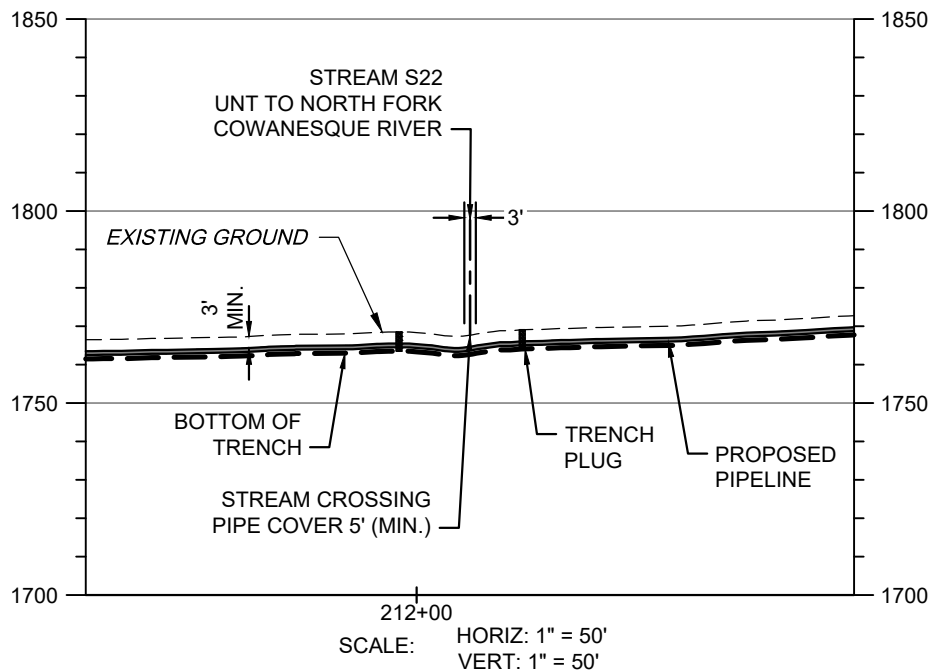
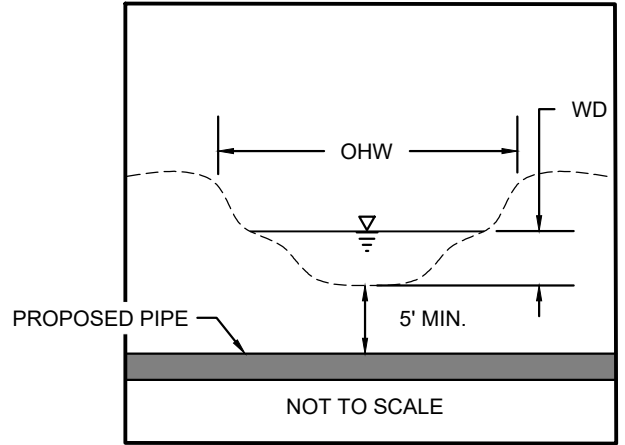
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<b>FIGURE 18</b>	

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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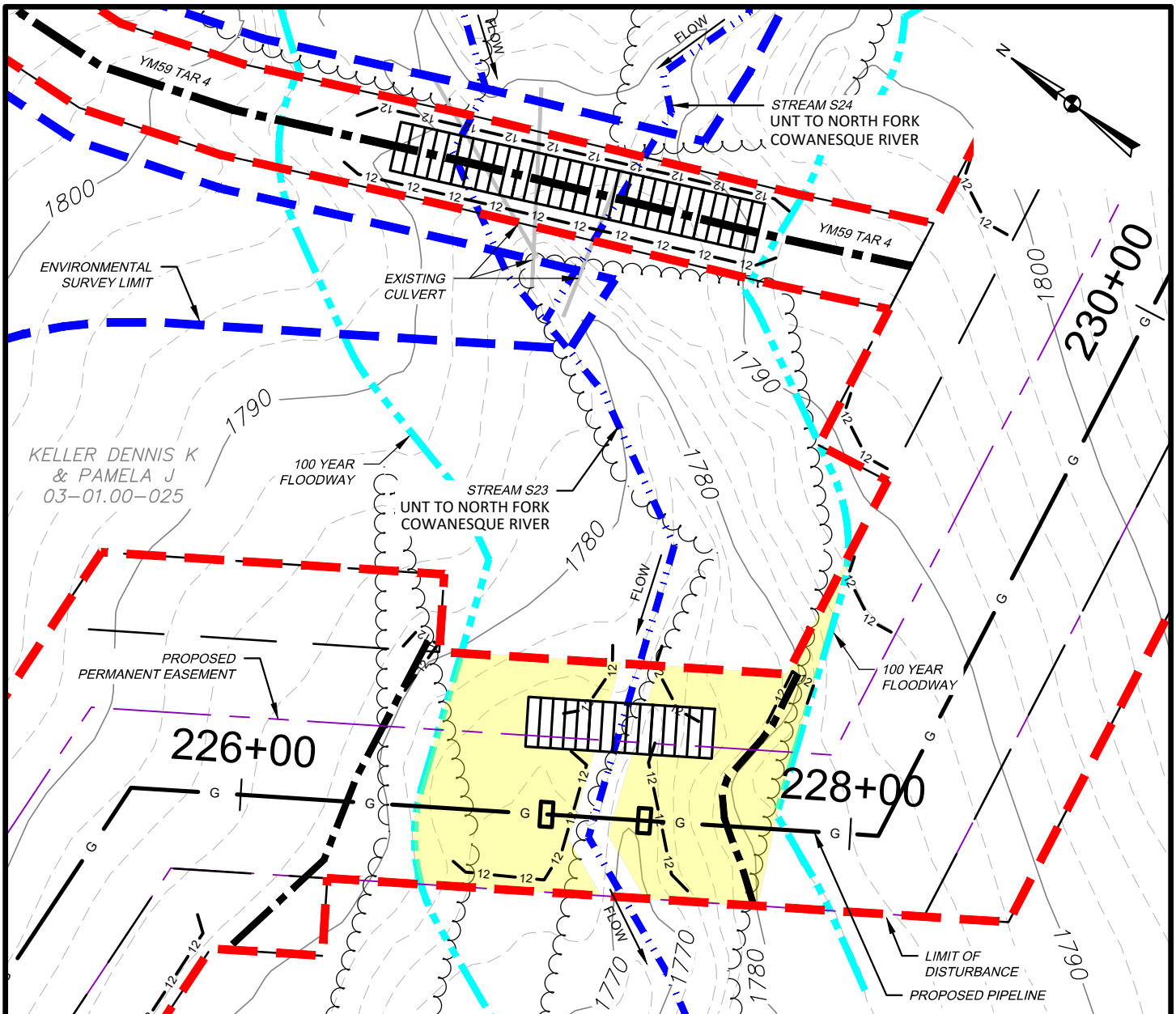
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**FIGURE 18A**



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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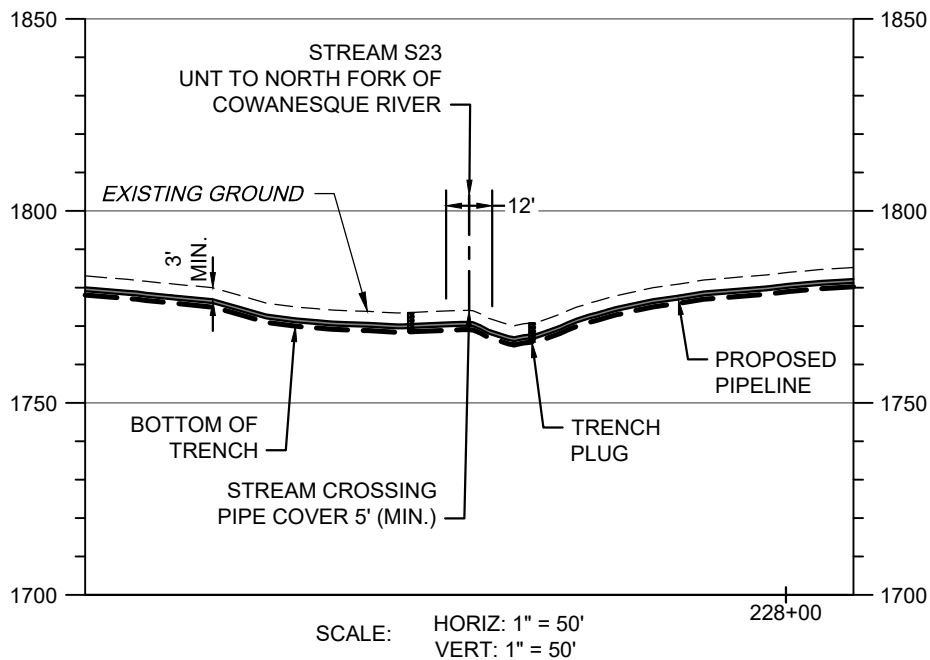
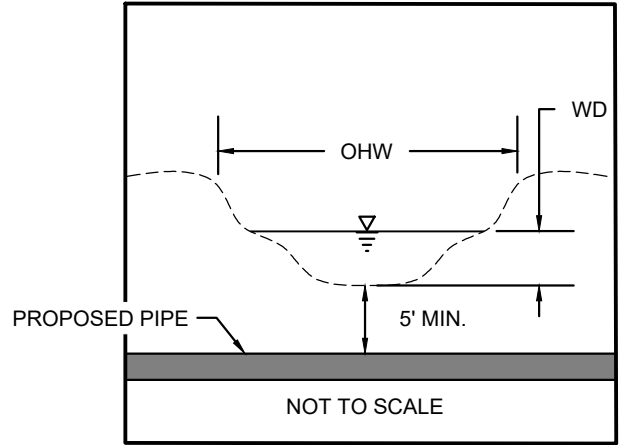
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<b>FIGURE 19</b>	

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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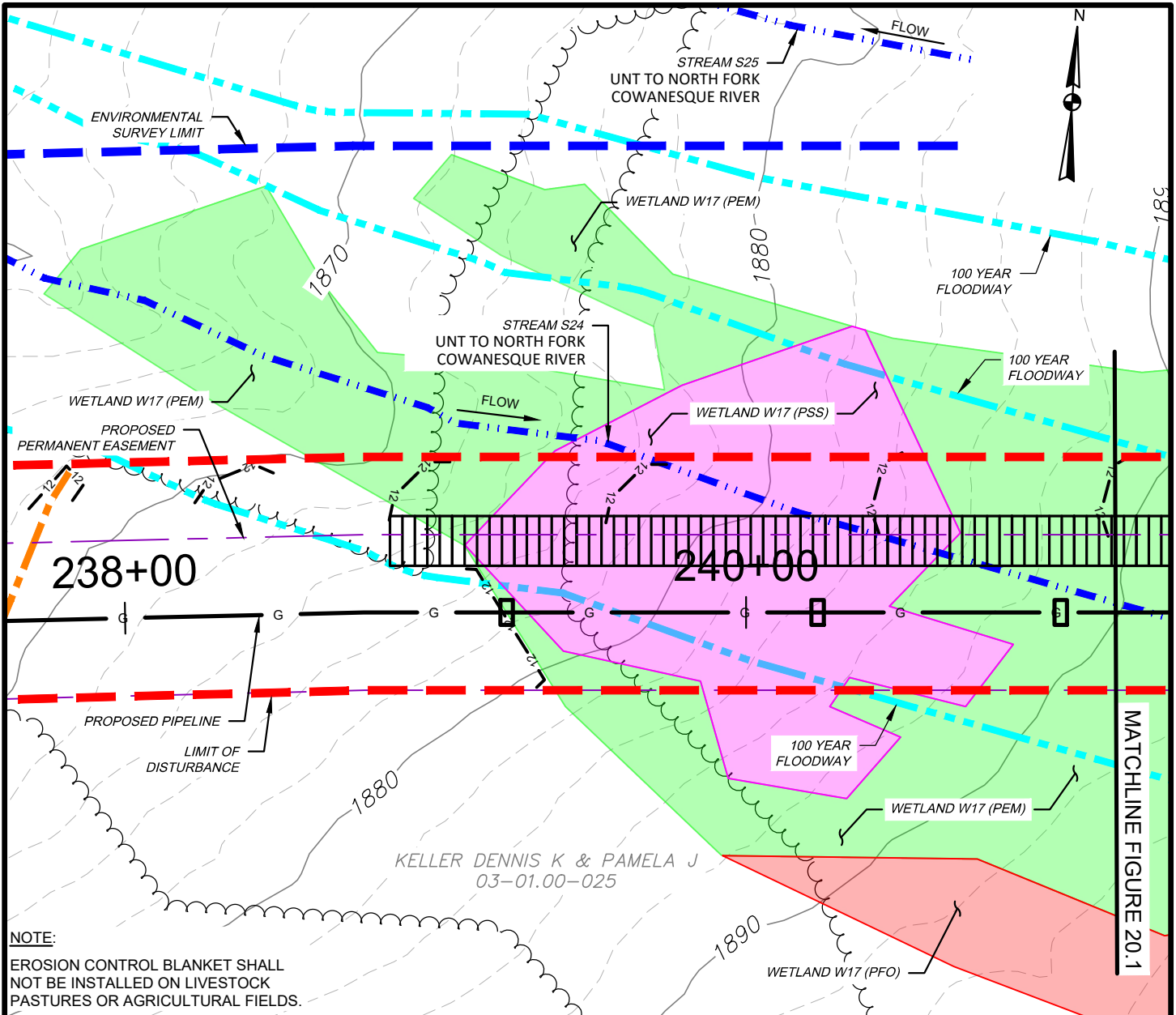
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**FIGURE 19A**



**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	
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

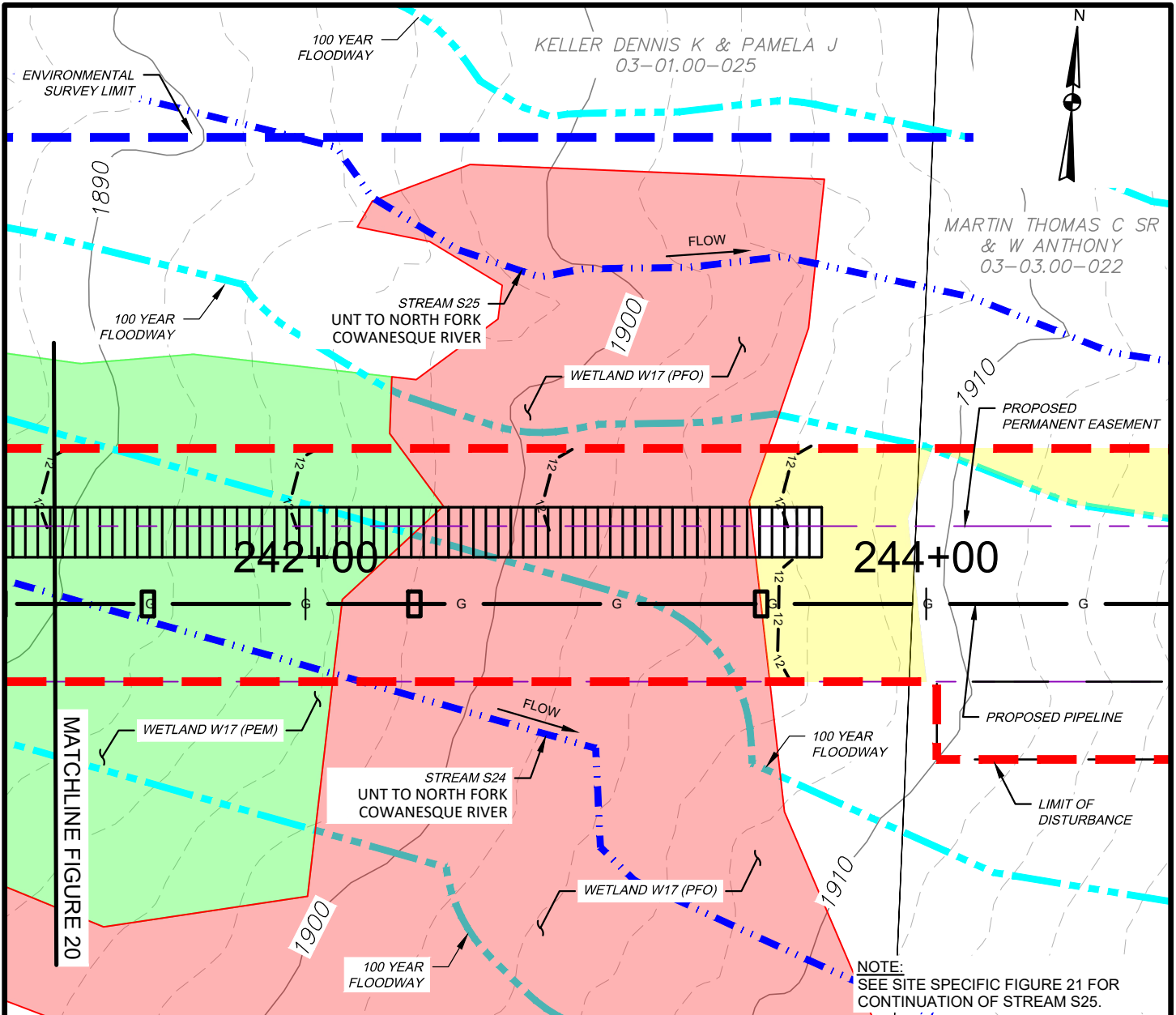


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<b>FIGURE 20</b>	



NOTE:  
SEE SITE SPECIFIC FIGURE 21 FOR  
CONTINUATION OF STREAM S25.

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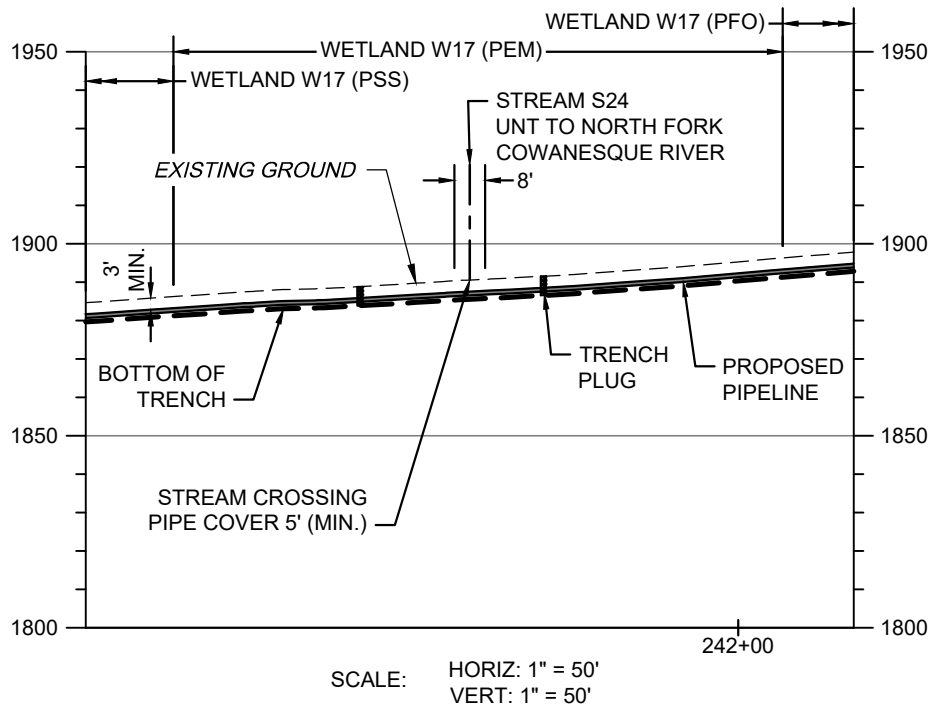
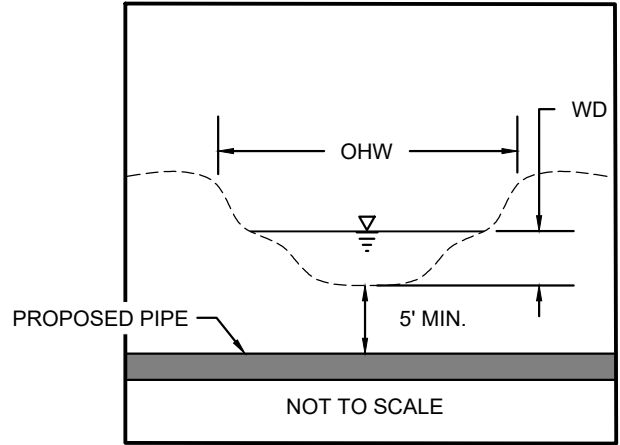
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S24 BANK TO BANK WIDTH (OHW) = 8'  
 S24 WATER DEPTH (WD) = 2'



**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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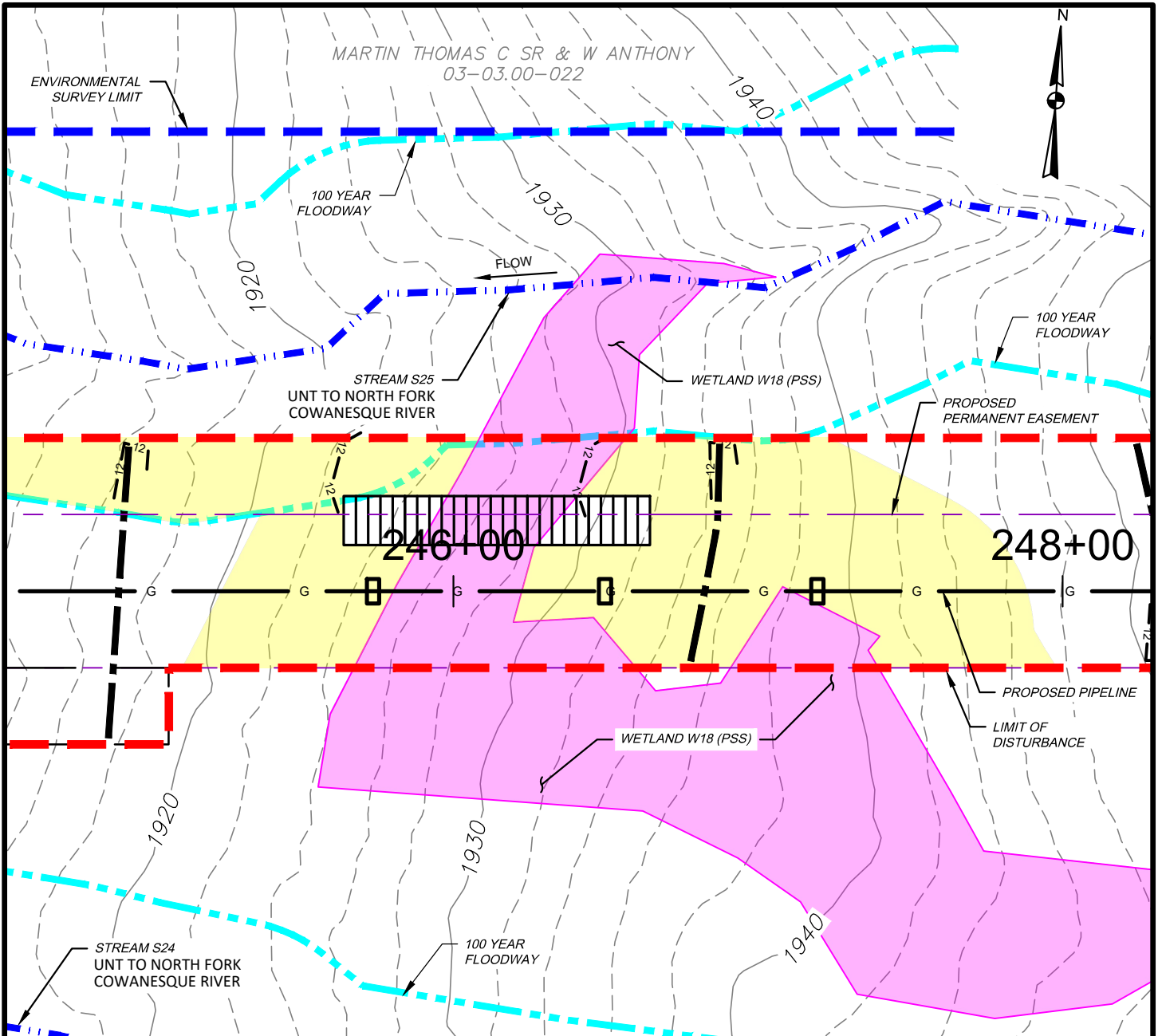
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**FIGURE 20A**



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



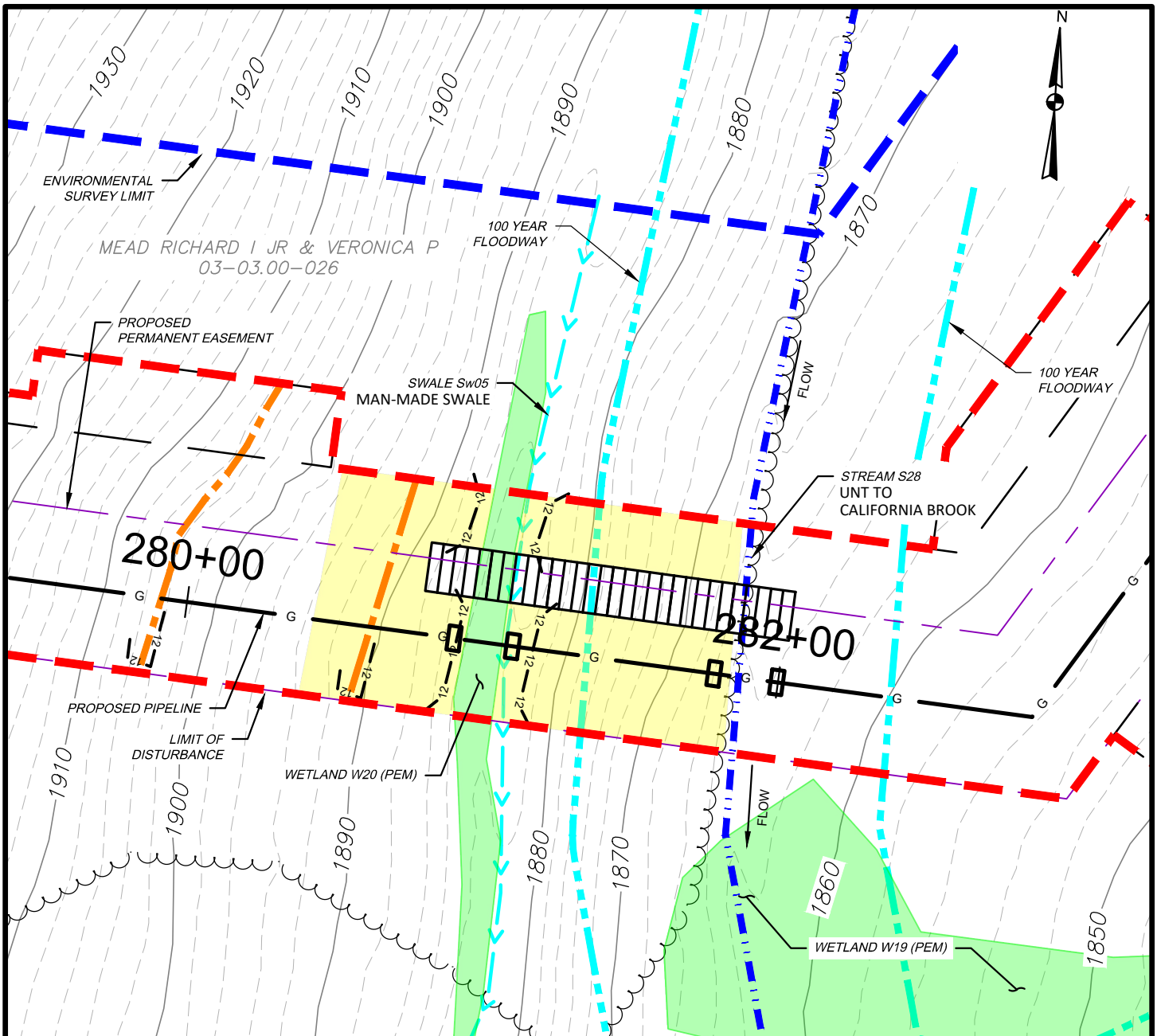
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<b>FIGURE 21</b>	



**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



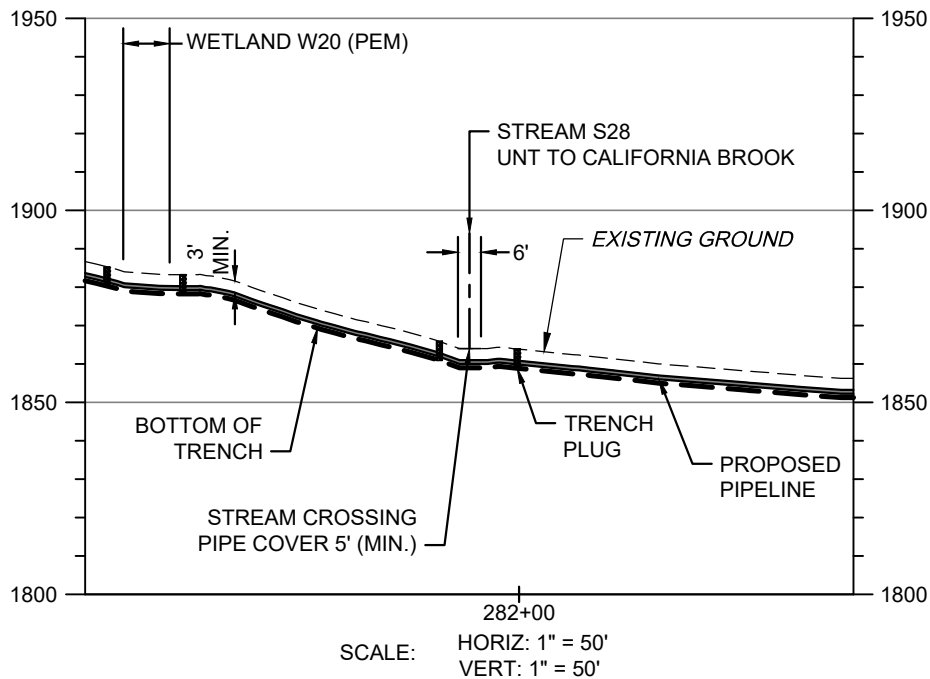
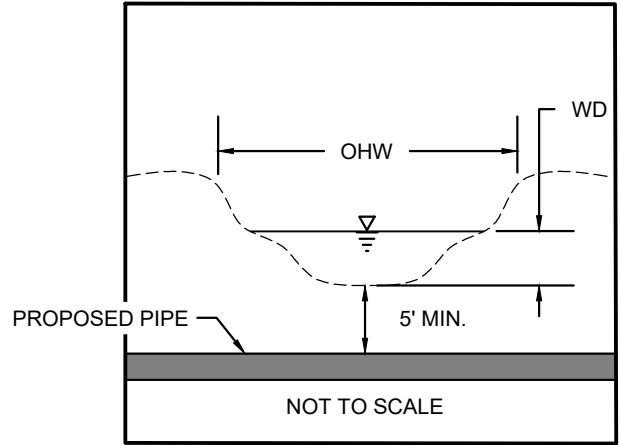
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**BROOKFIELD TWP, TIOGA COUNTY**  
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<b>FIGURE 22</b>	

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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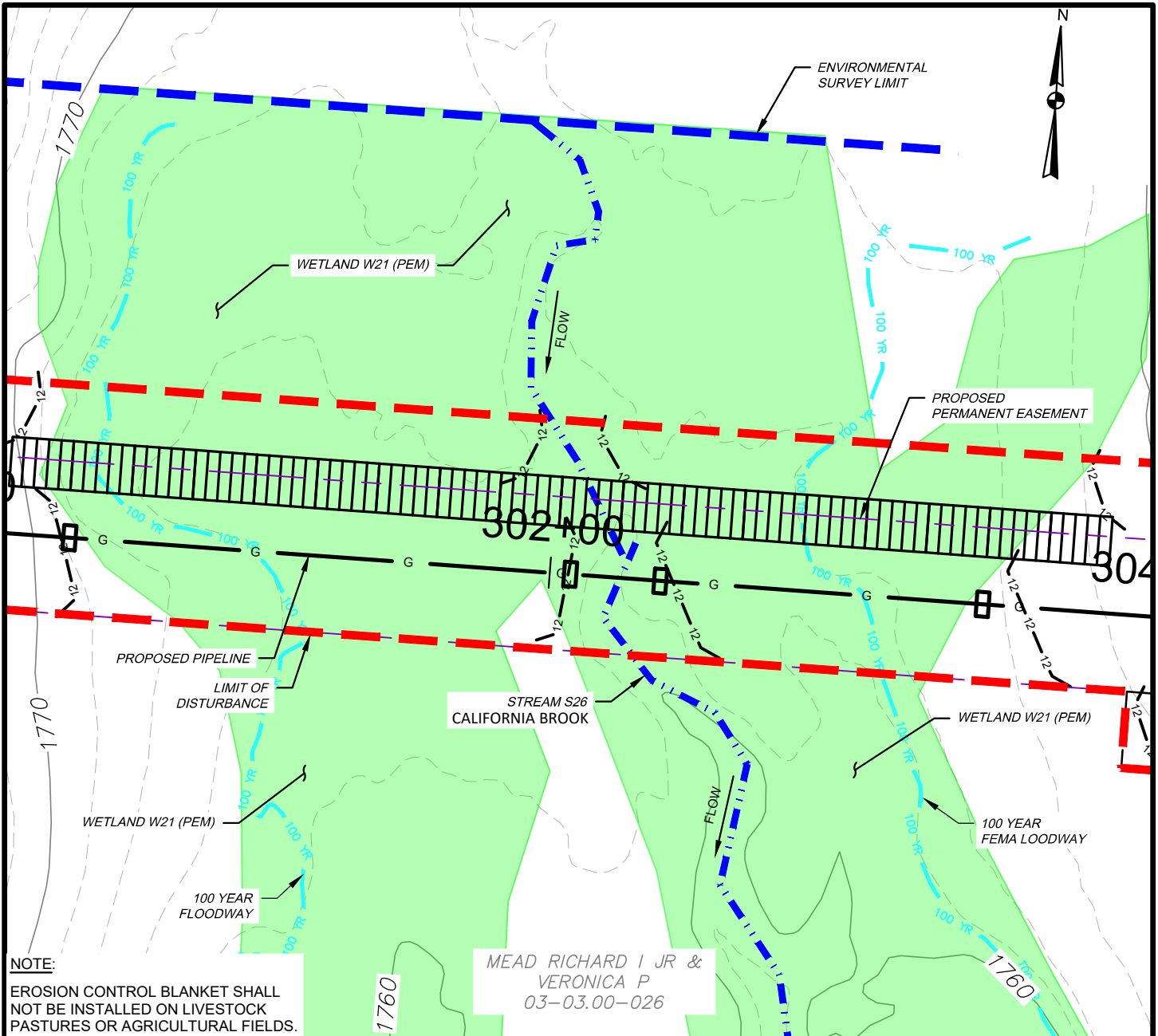
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 YM59 PIPELINE  
 BROOKFIELD TWP, TIOGA COUNTY  
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**FIGURE 22A**



WETLAND IMPACT

APPROX. MILEPOST	WETLAND I.D.	LATITUDE	LONGITUDE	MUNICIPALITY	TEMP. IMPACT (ACRES)			PERM. IMPACT (ACRES)			SUBFACILITY CODE
					PEM	PSS	PFO	PEM	PSS	PFO	
5.70	W21	41.967169	-77.561953	BROOKFIELD	0.445	-	-	0.066	-	-	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.)	
5.74	S26	CALIFORNIA BROOK	PERENNIAL	15	41.967168	-77.561839	0.027	0.004	0.327	0.047	PIPE; BRDG; FLACT



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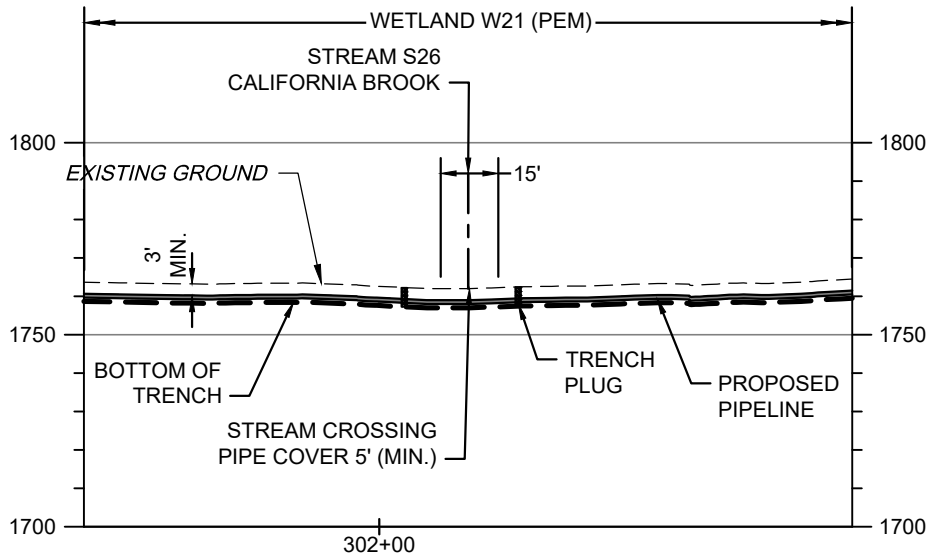
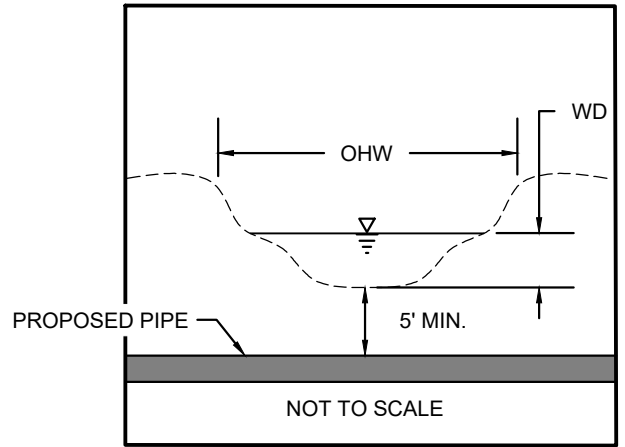
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FIGURE 23

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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SITE SPECIFICS  
 YM59 PIPELINE

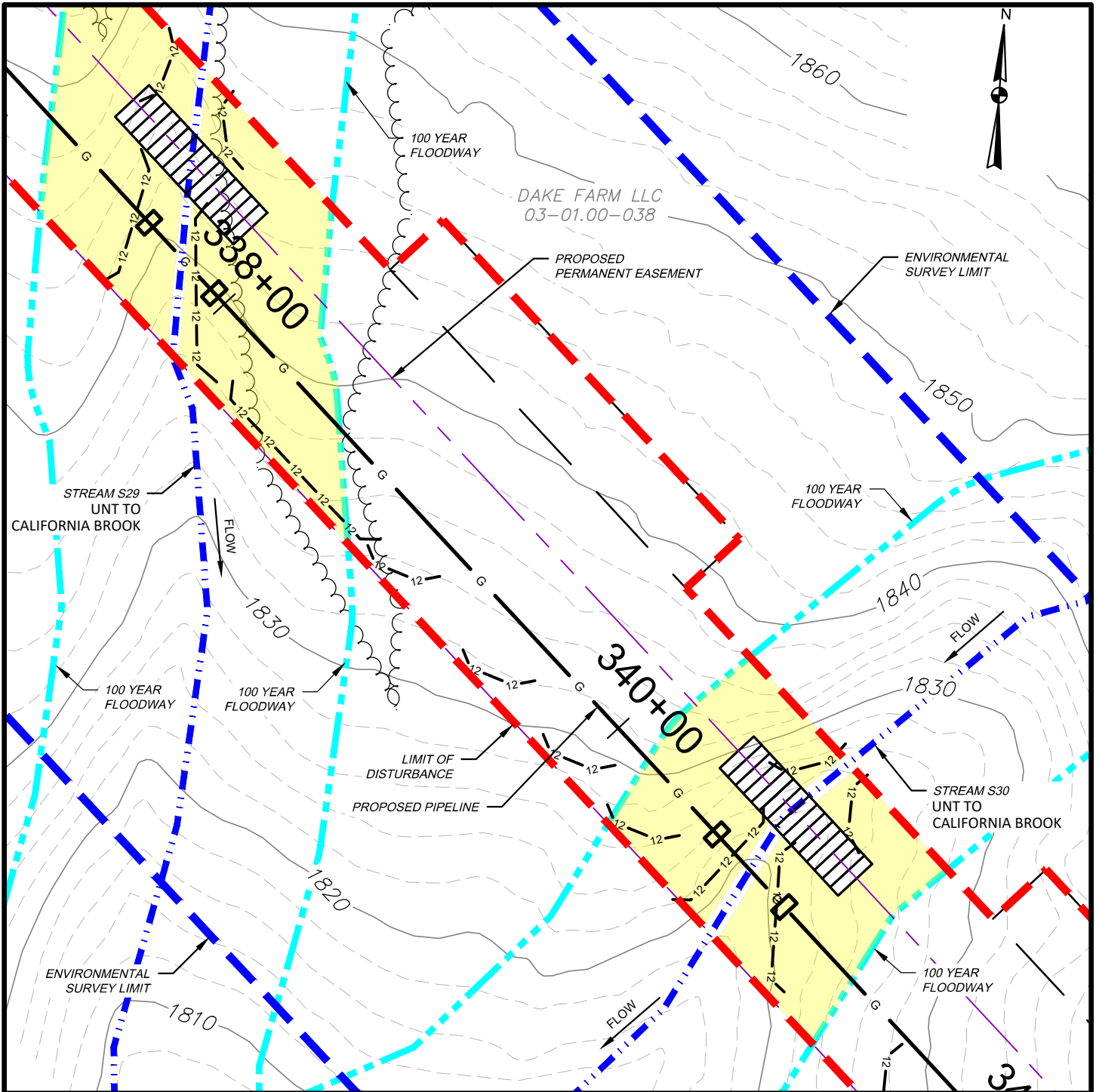
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SCALE: AS NOTED

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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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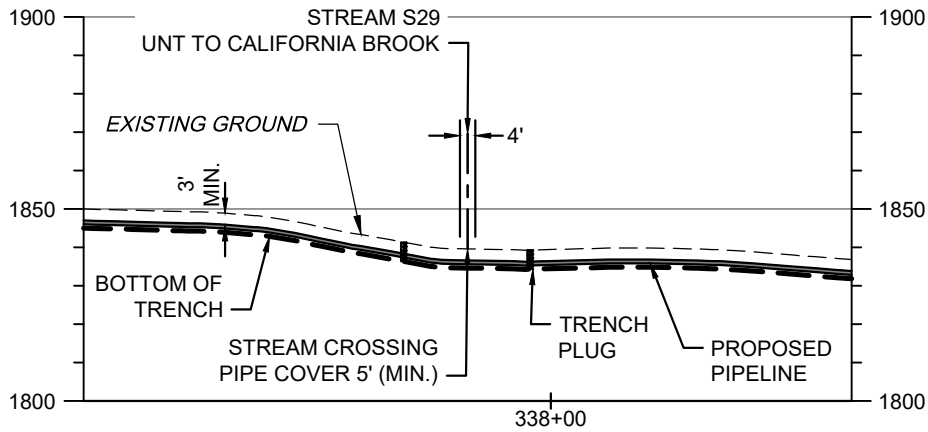
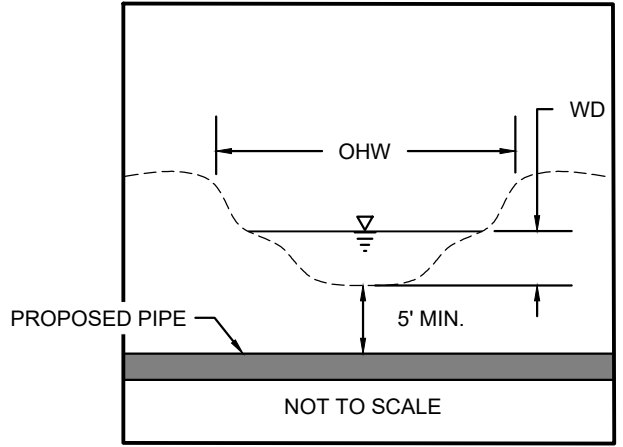
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SCALE: 1" = 50'

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<b>FIGURE 24</b>	

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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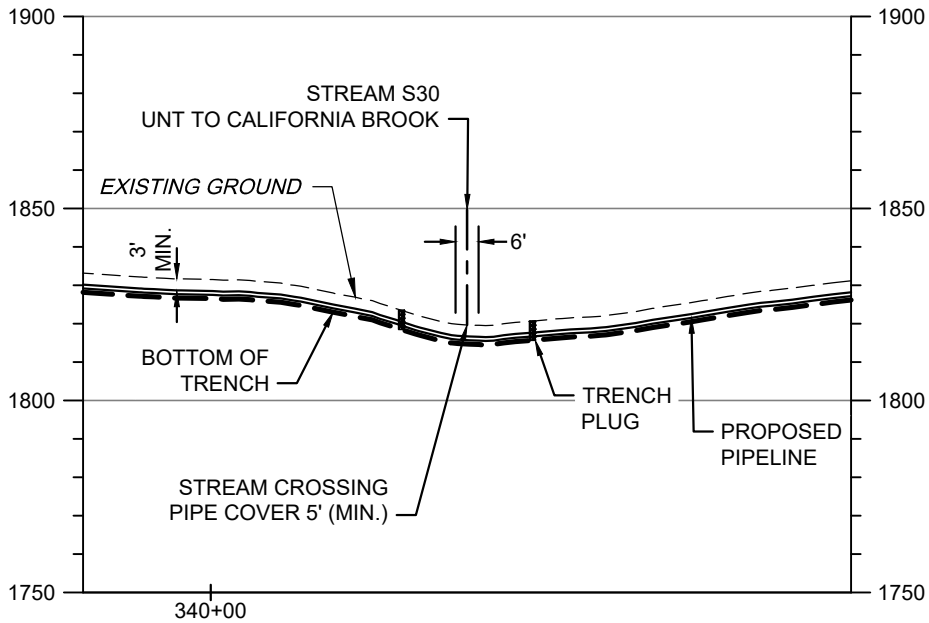
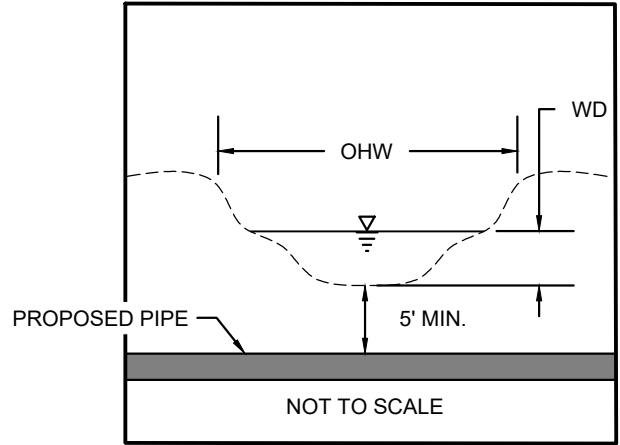
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<b>FIGURE 24A</b>	

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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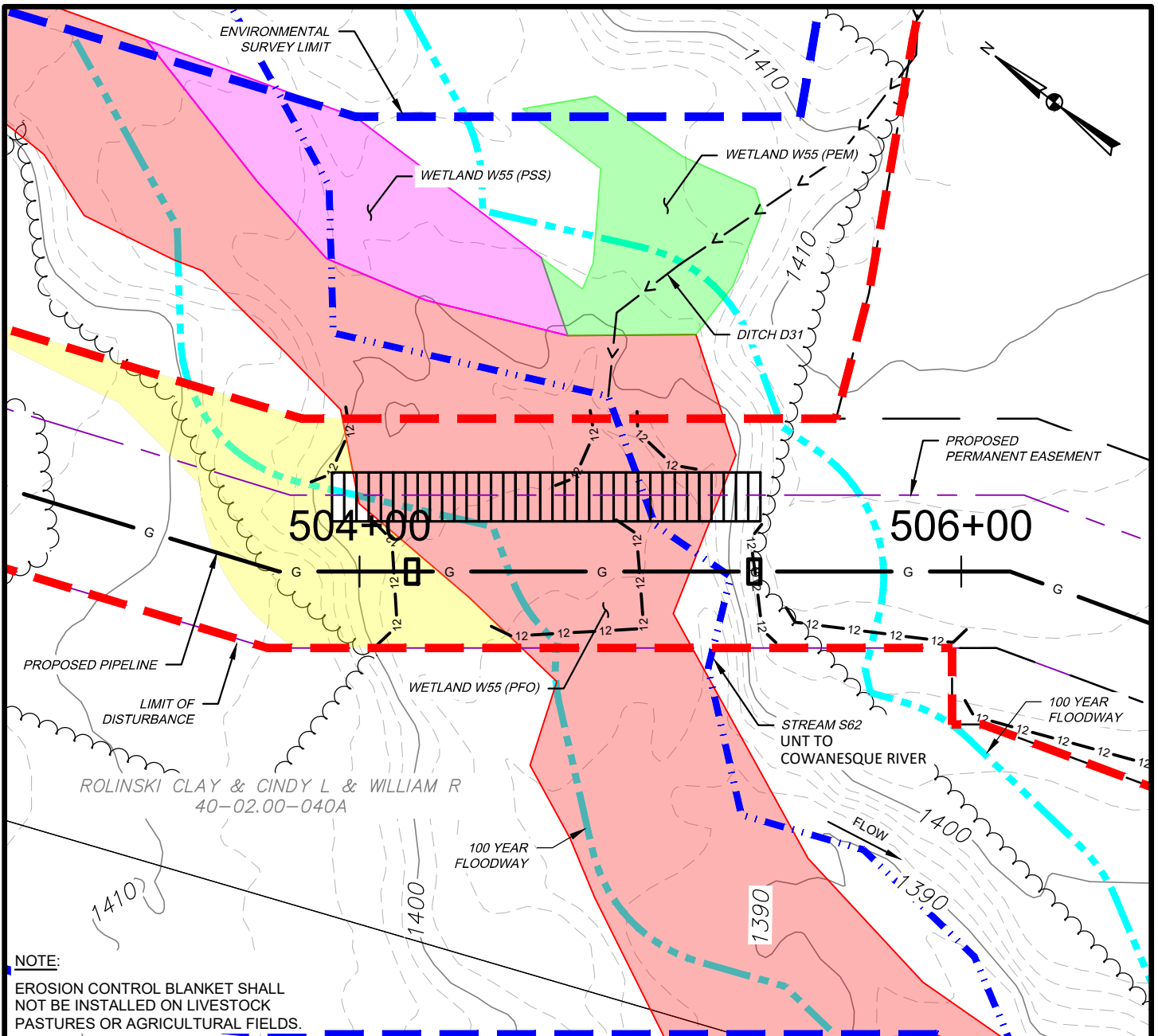
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SITE SPECIFICS  
 YM59 PIPELINE  
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**FIGURE 24B**



**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**

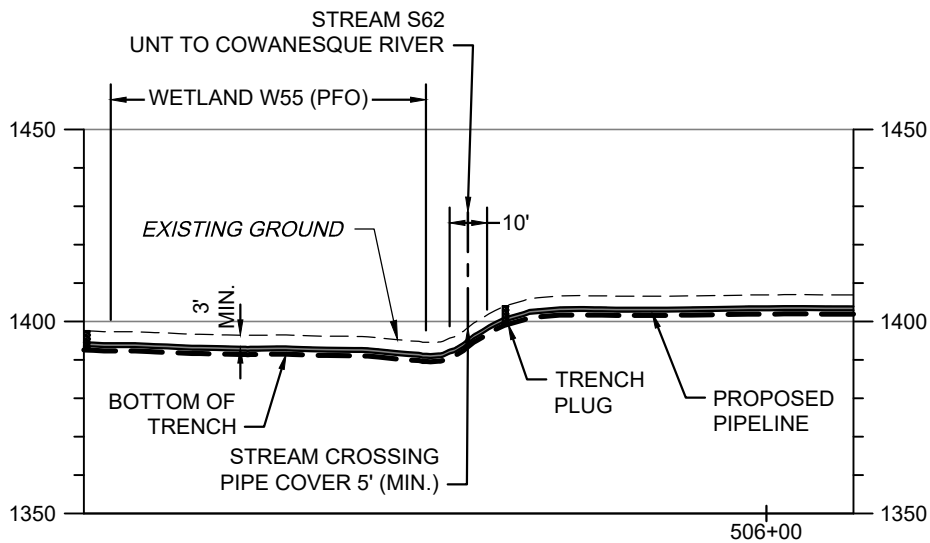
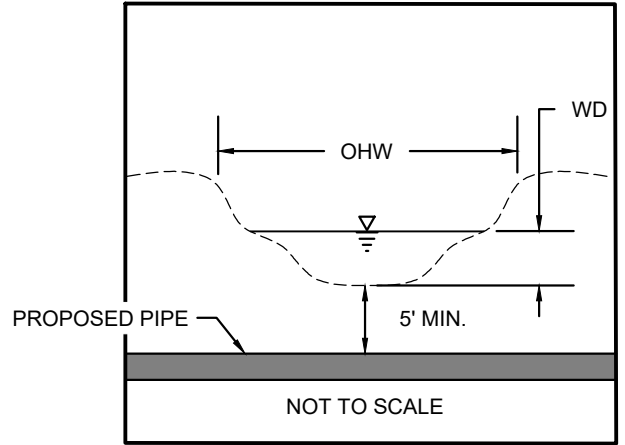
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<b>FIGURE 25</b>	

S62 BANK TO BANK WIDTH (OHW) = 10'  
 S62 WATER DEPTH (WD) = 12"



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

**STREAM S62 - 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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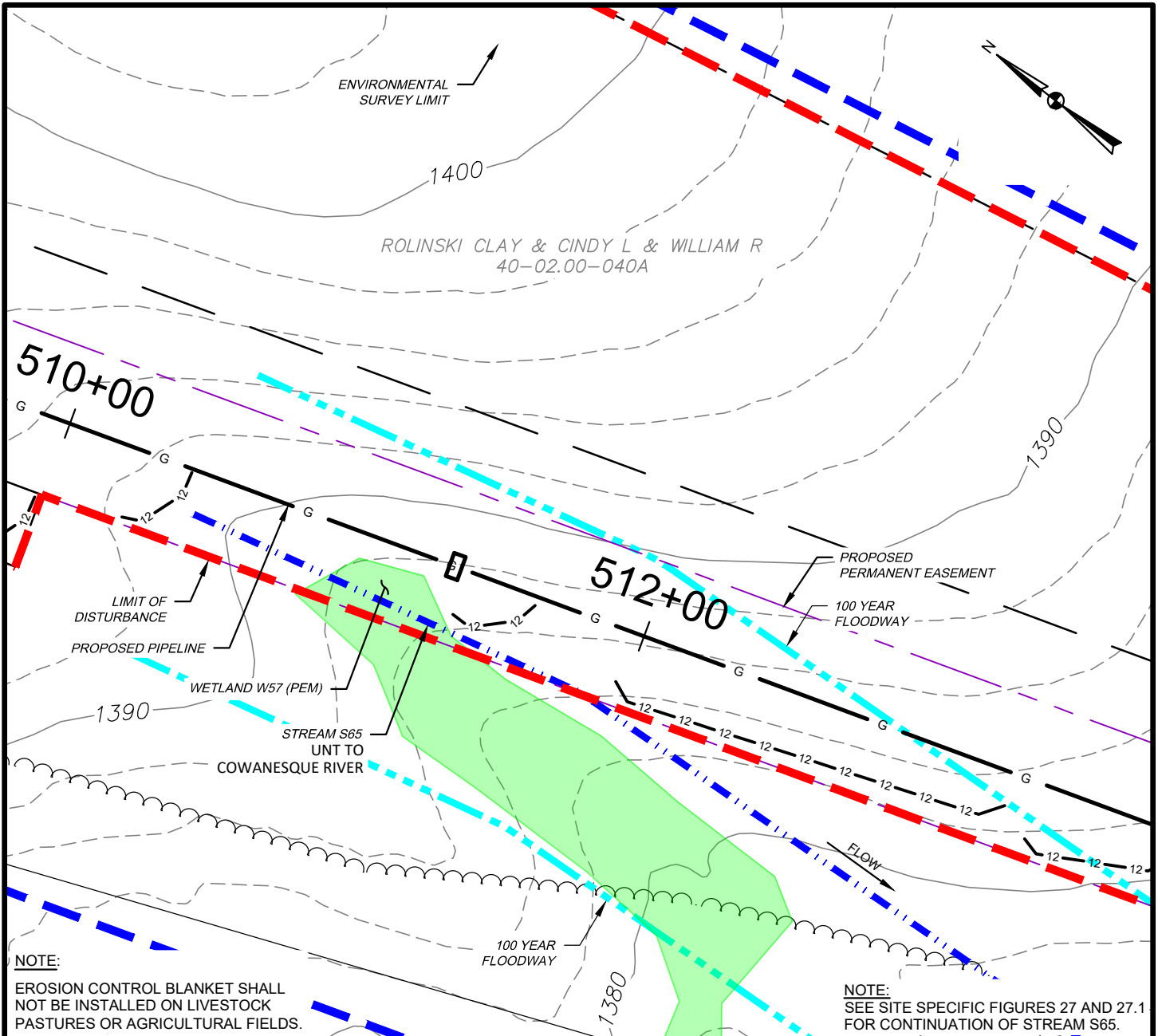
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**FIGURE 25A**



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

**NOTE:**  
SEE SITE SPECIFIC FIGURES 27 AND 27.1 FOR CONTINUATION OF STREAM S65.

**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



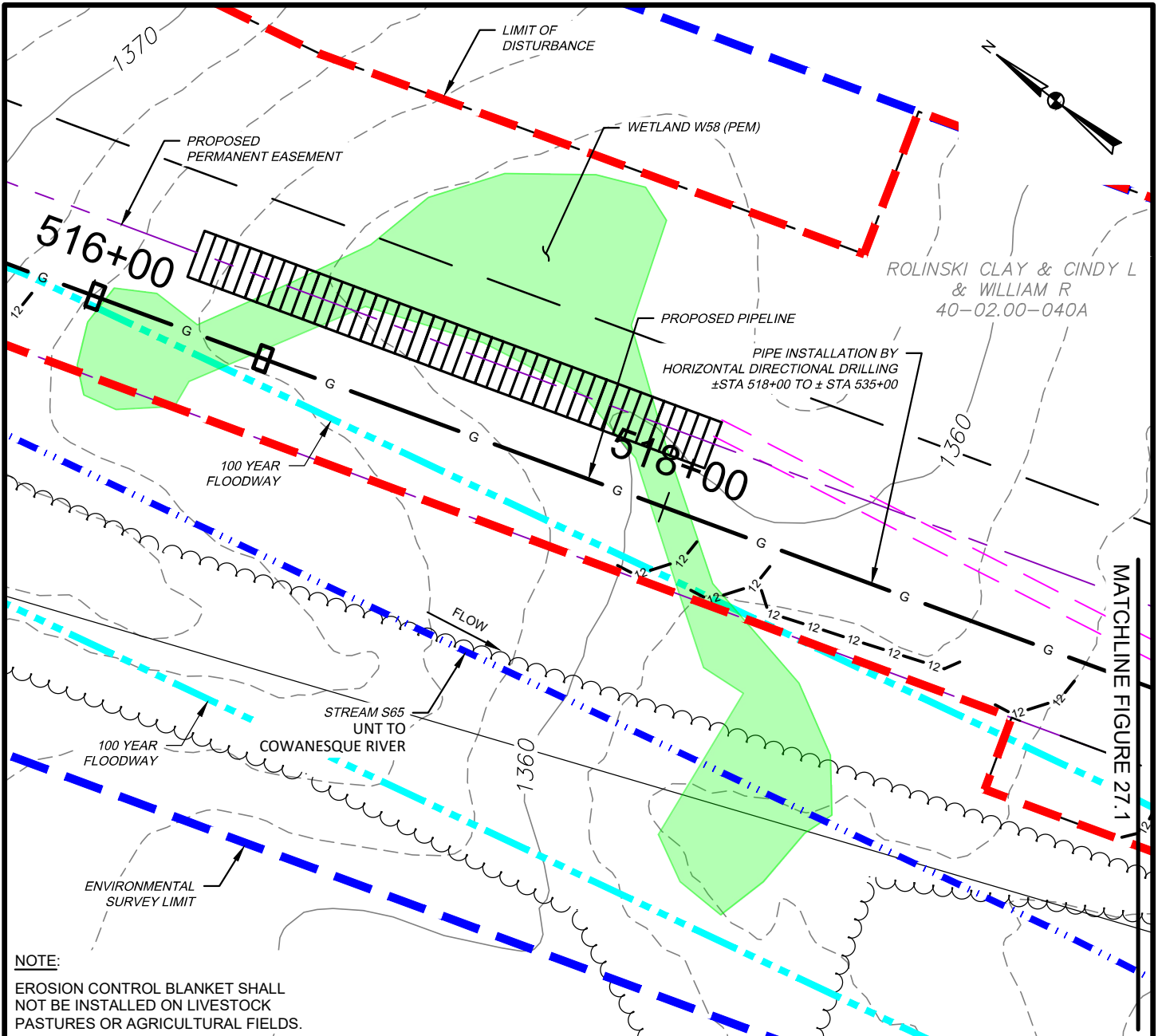
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<b>FIGURE 26</b>	



**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	0.181	-	-	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.)	
9.70	S65	UNT TO COWANESQUE RIV.	EPHEMERAL	1	41.927439	-77.516767	0.003	0.000	0.602	0.005	BRDG; FLACT



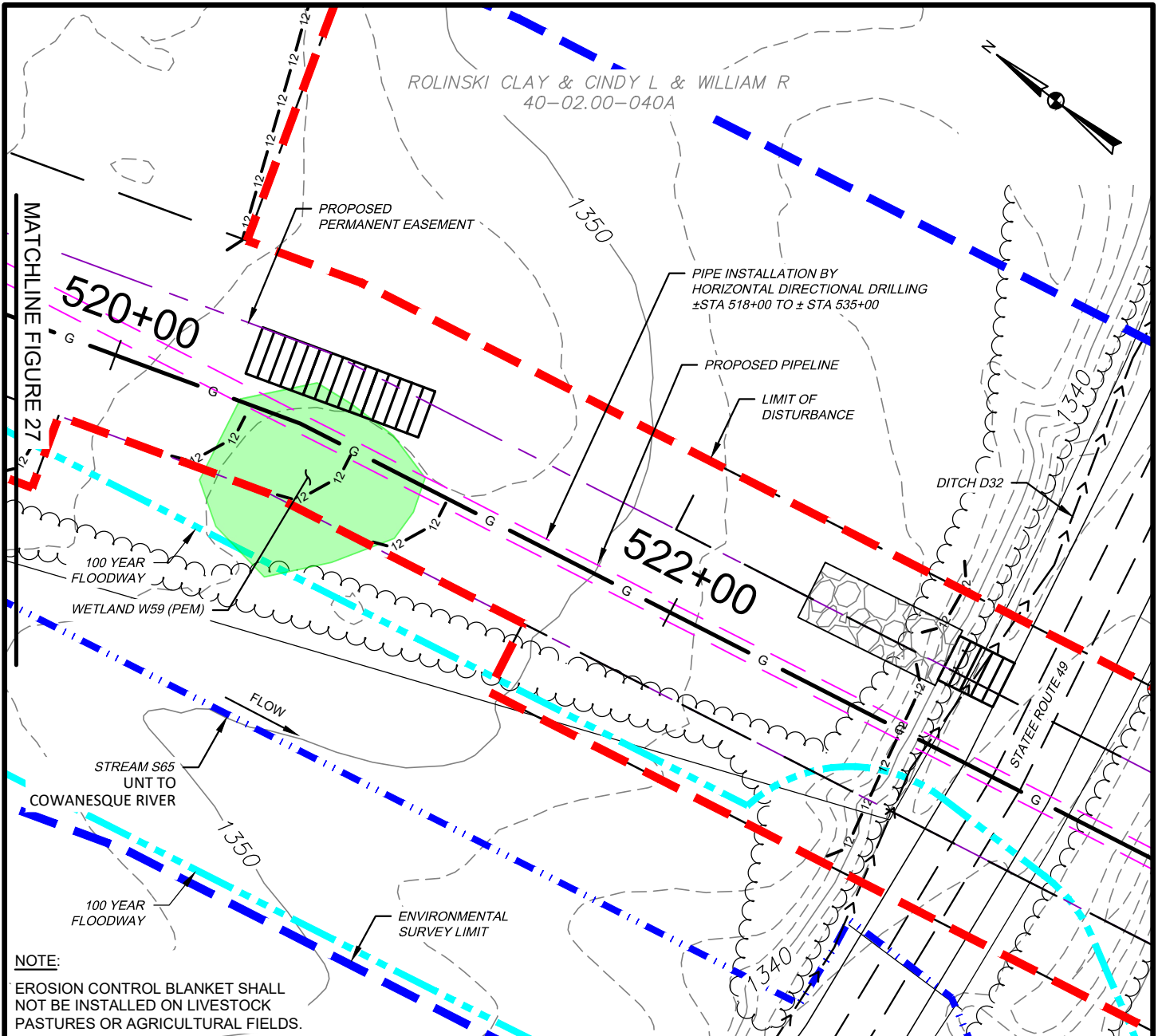
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 SCALE: 1" = 50'

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<b>FIGURE 27</b>	



**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	
9.85	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



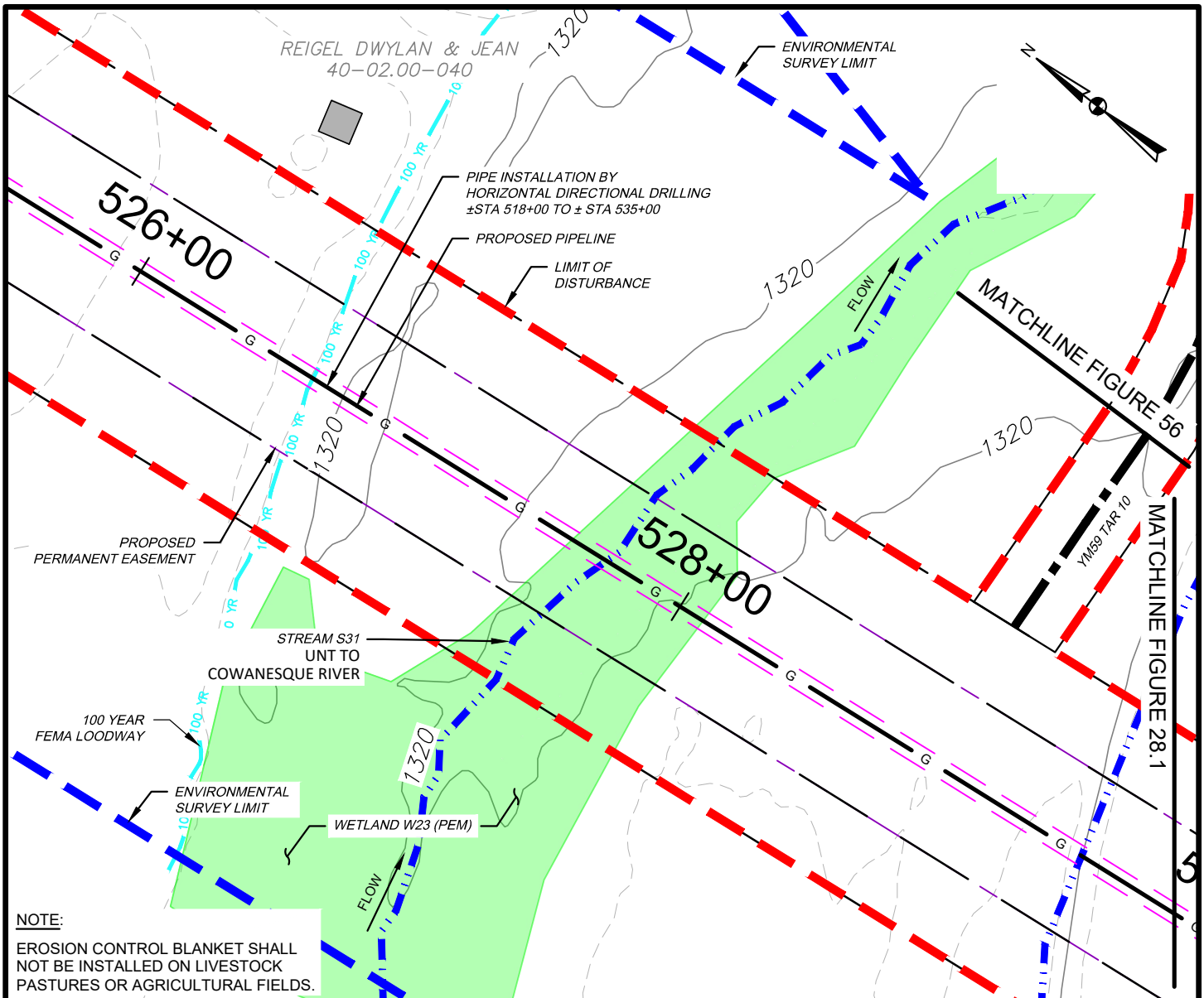
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**NOTE:**  
 EROSION CONTROL BLANKET SHALL NOT BE INSTALLED ON LIVESTOCK PASTURES OR AGRICULTURAL FIELDS.

**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.)	
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	SITE PLAN REFERENCE
					PEM	PSS	PFO	PEM	PSS	PFO		
10.00	W23	41.925353	-77.516037	WESTFIELD	0.104	-	-	0.002	-	-	PIPE; TMPWI; WTDIM	



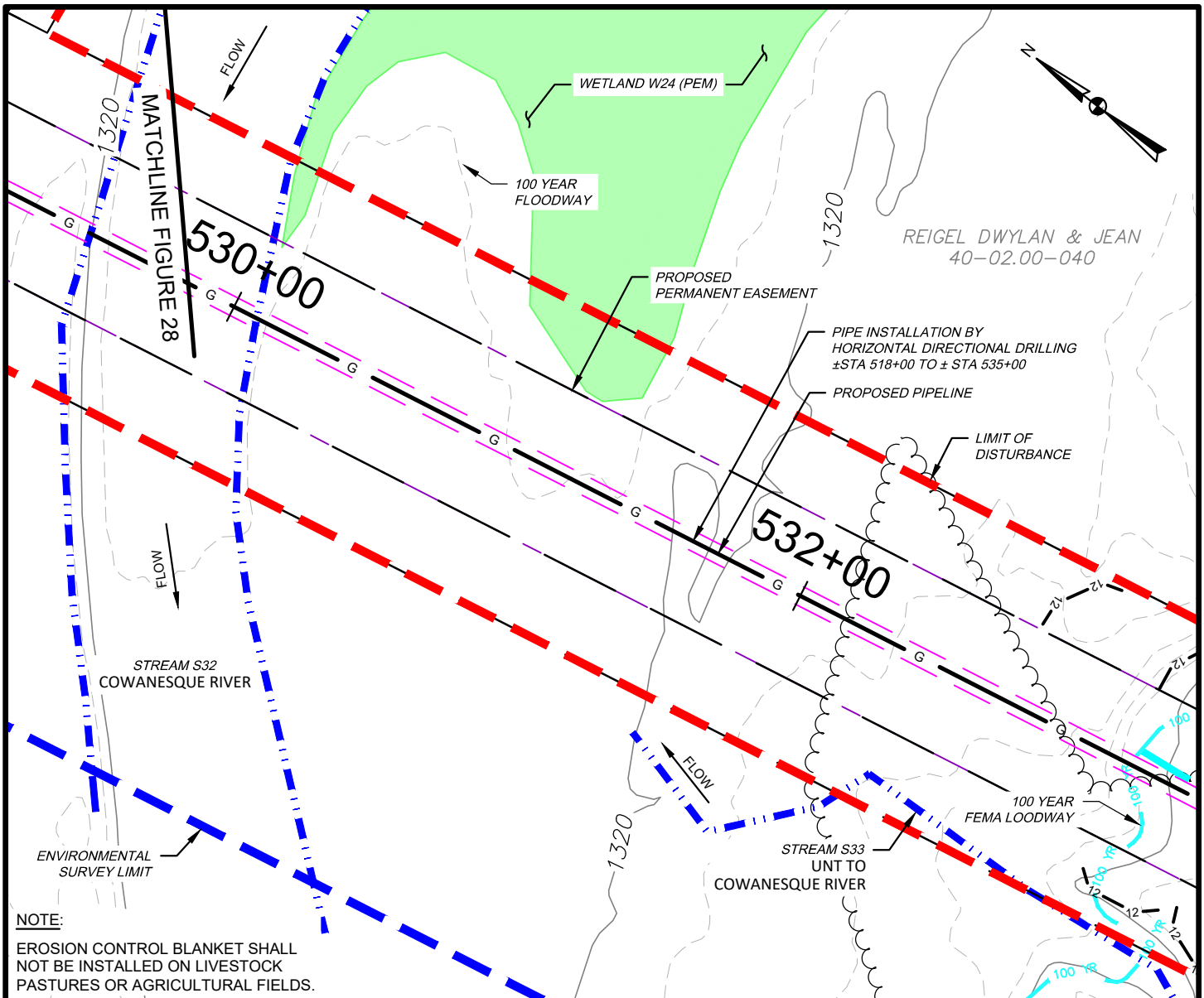
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<b>FIGURE 28</b>	



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	SITE PLAN REFERENCE
					PEM	PSS	PFO	PEM	PSS	PFO		
10.05	W24	41.924788	-77.51574	WESTFIELD	0.021	-	-	0.000	-	-	TMPWI; WTDIM	



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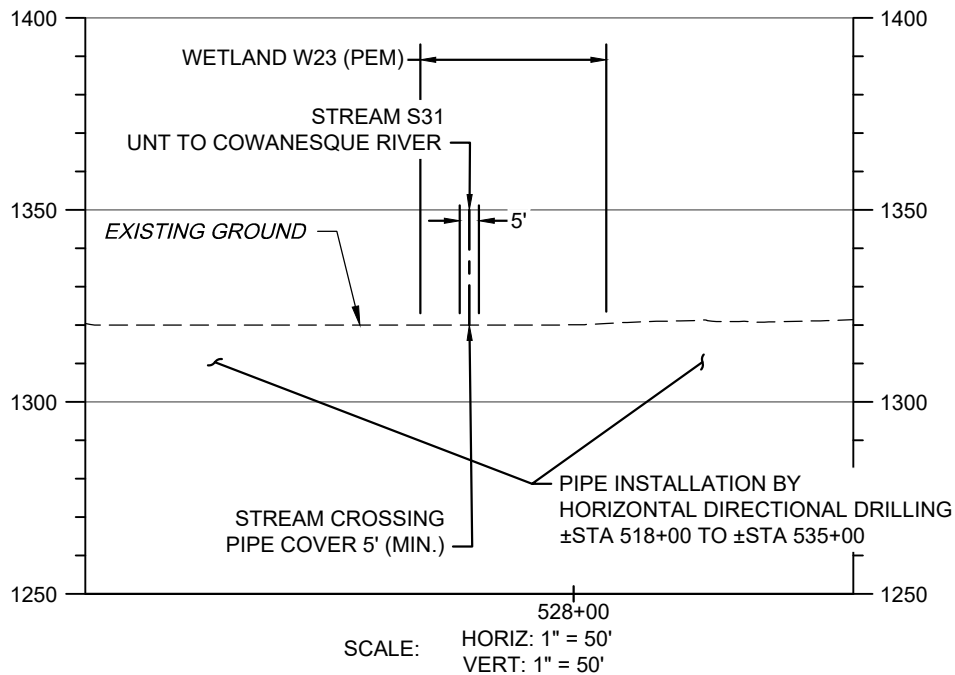
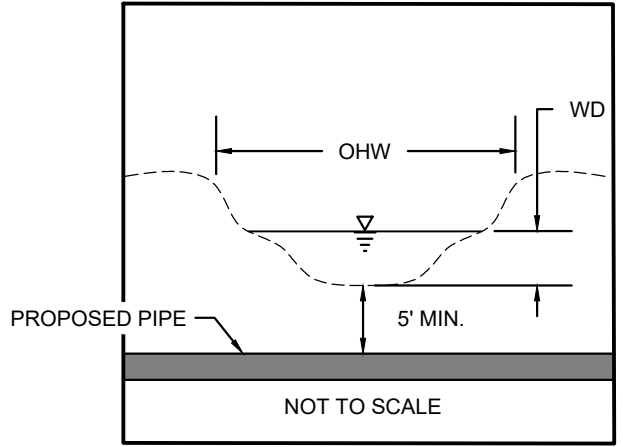
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**FIGURE 28.1**

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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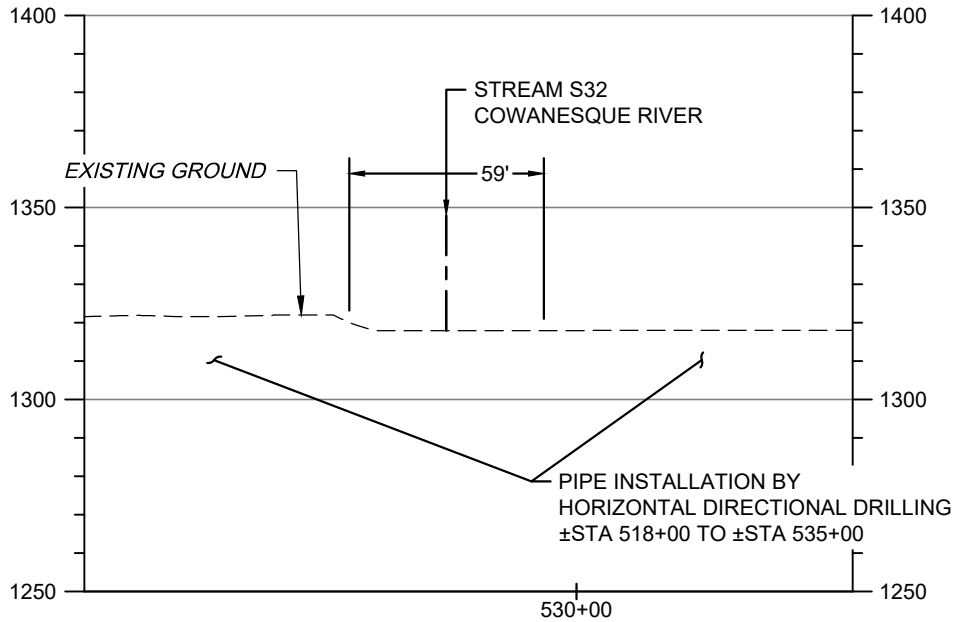
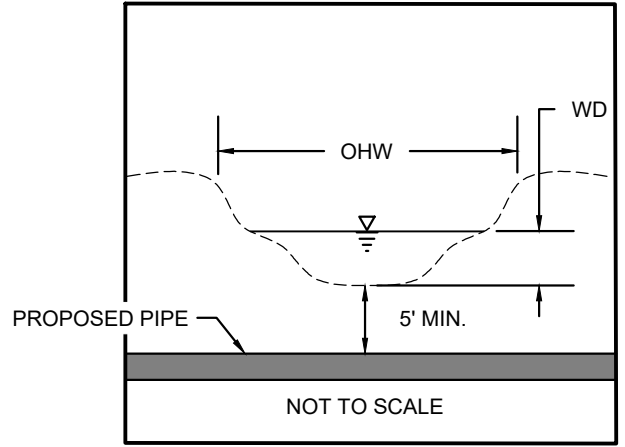
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 WESTFIELD TWP, TIOGA COUNTY  
 SCALE: AS NOTED

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**FIGURE 28A**

S32 BANK TO BANK WIDTH (OHW) = 59'  
 S32 WATER DEPTH (WD) = 6"



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

**STREAM S32 - PIPELINE CROSSING PROFILE**

**NOTES:**

1. STREAM CROSSING WILL BE BY HORIZONTAL DIRECTIONAL DRILLING.



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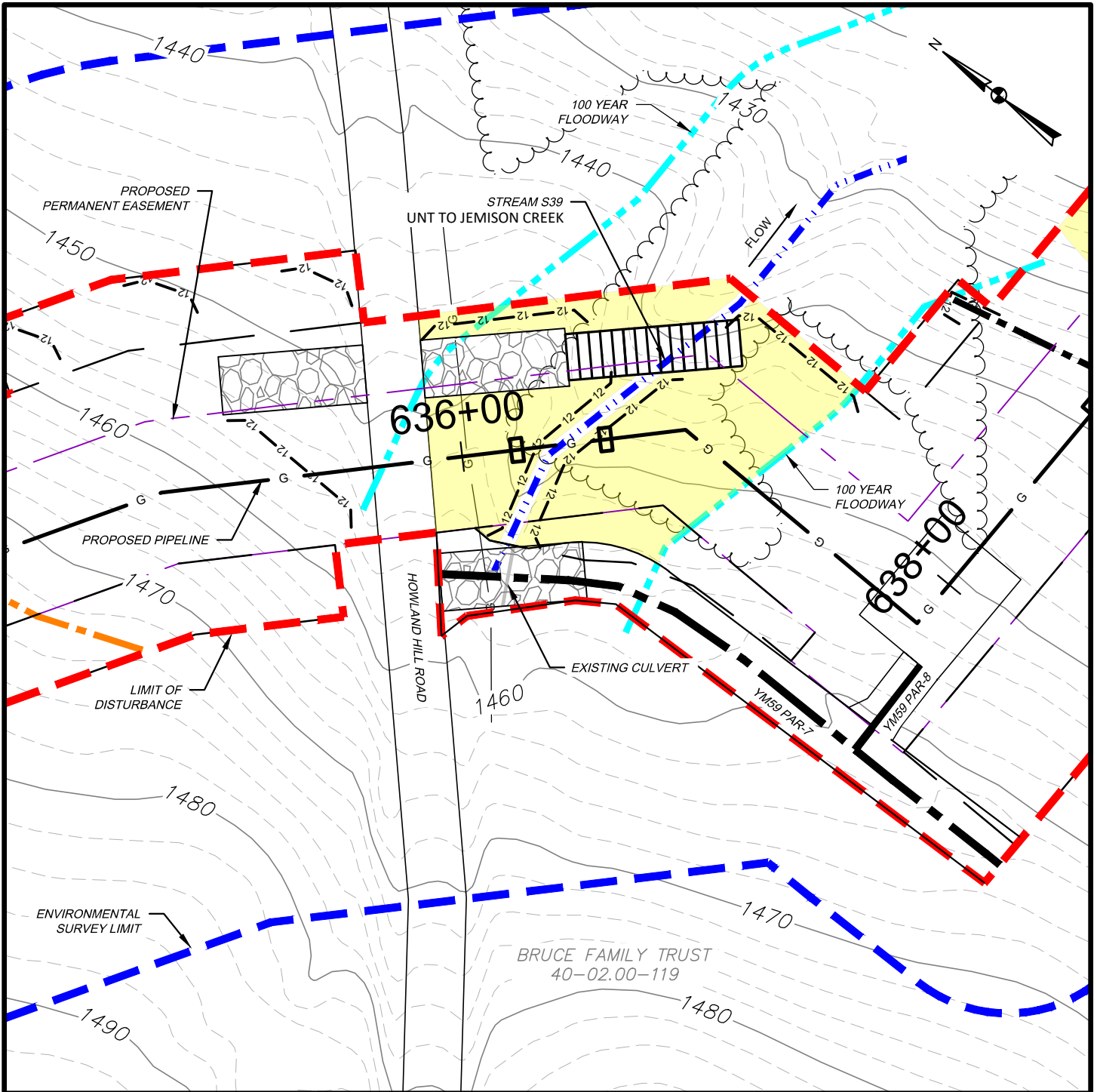
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**FIGURE 28B**



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/ ROAD; FLACT



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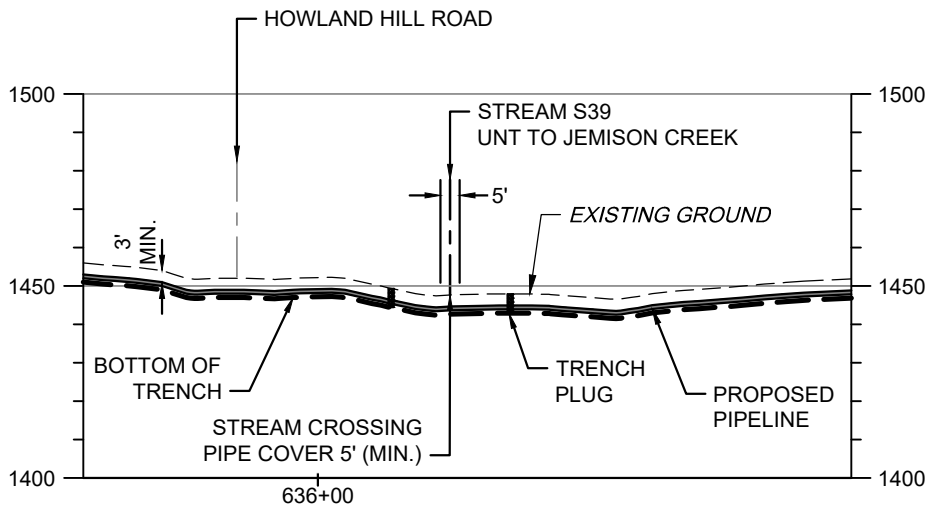
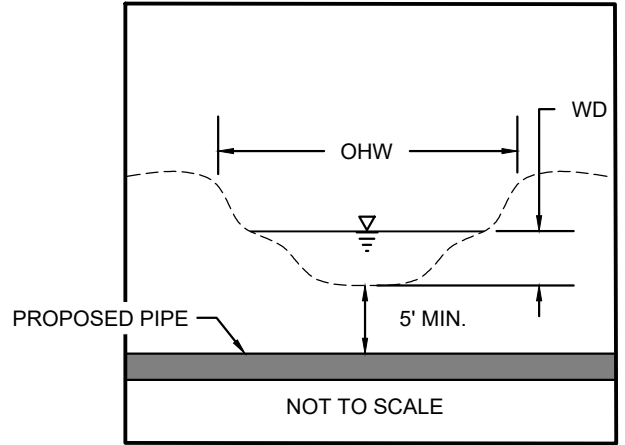
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SITE SPECIFICS  
YM59 PIPELINE / ACCESS ROADS  
WESTFIELD TWP, TIOGA COUNTY  
SCALE: 1" = 50'

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<b>FIGURE 29</b>	

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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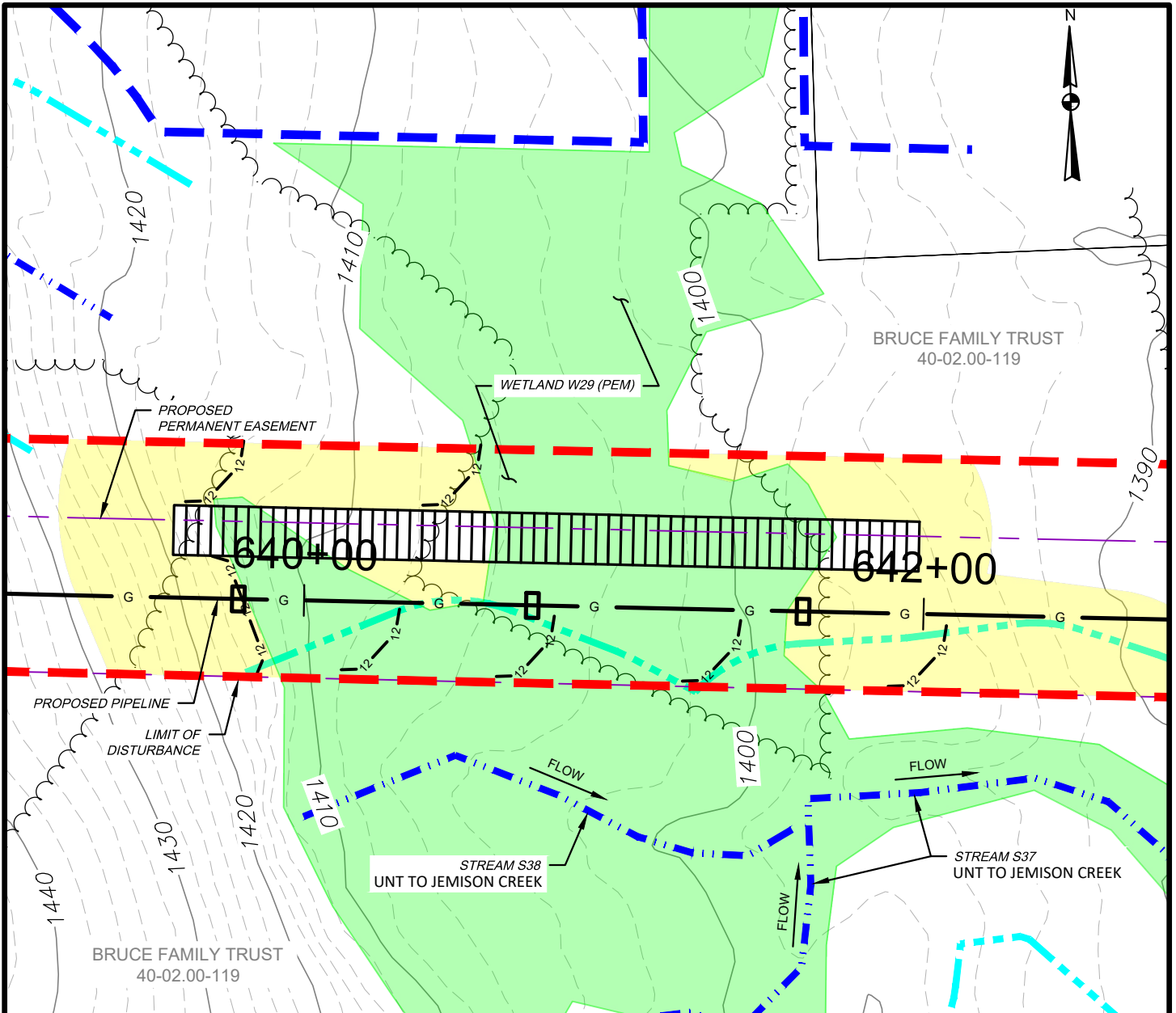
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**FIGURE 29A**



**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.)	
12.14	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



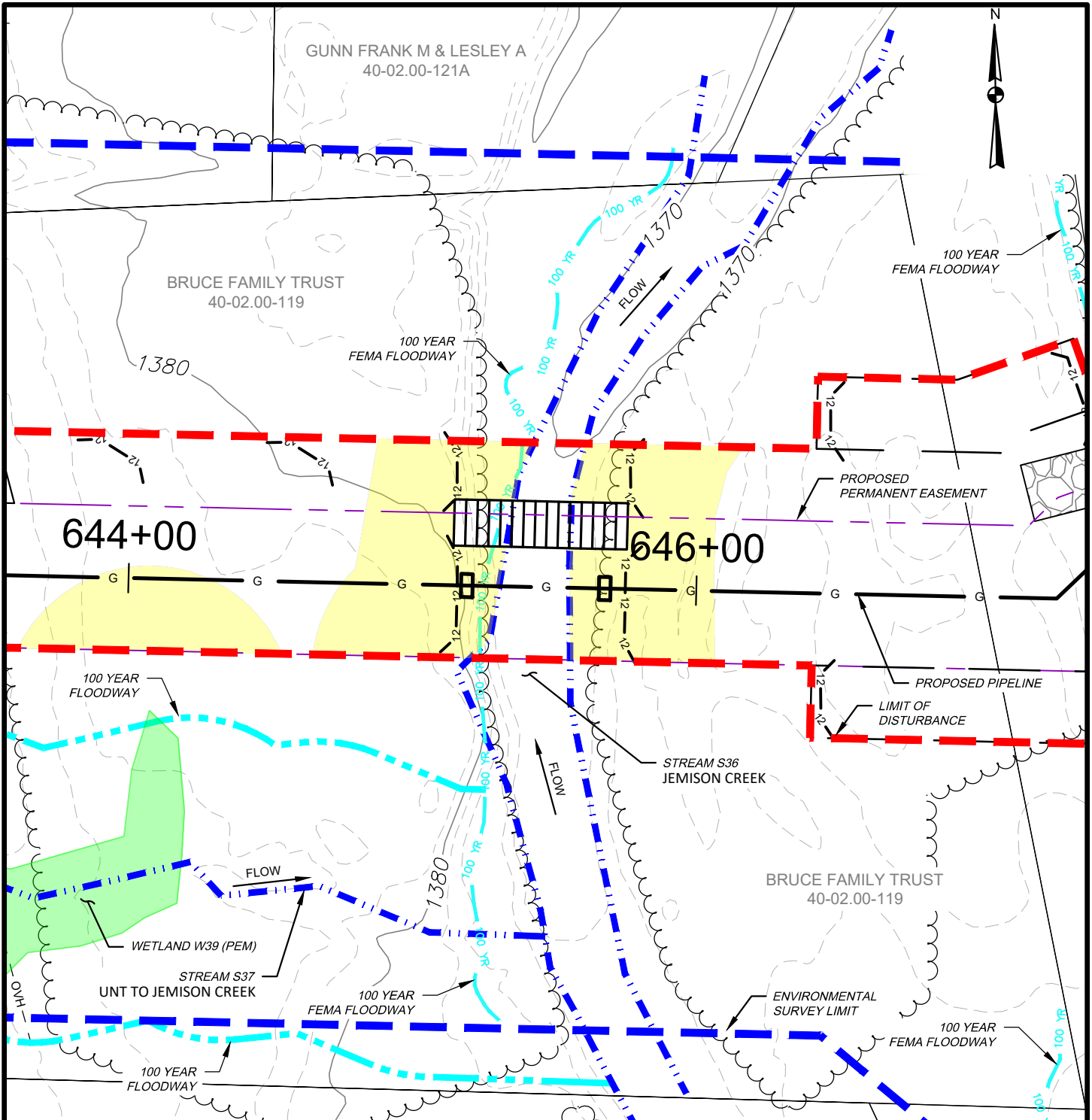
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SCALE: 1" = 50'

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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



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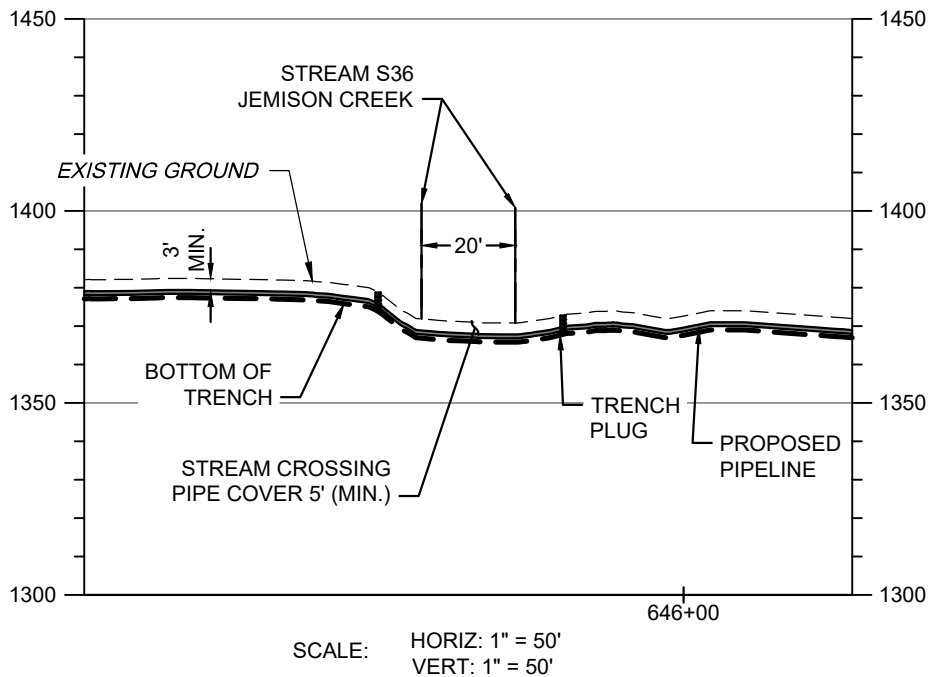
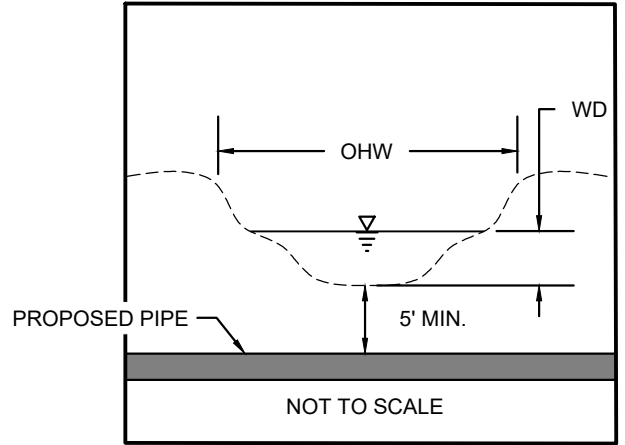
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<b>FIGURE 31</b>	

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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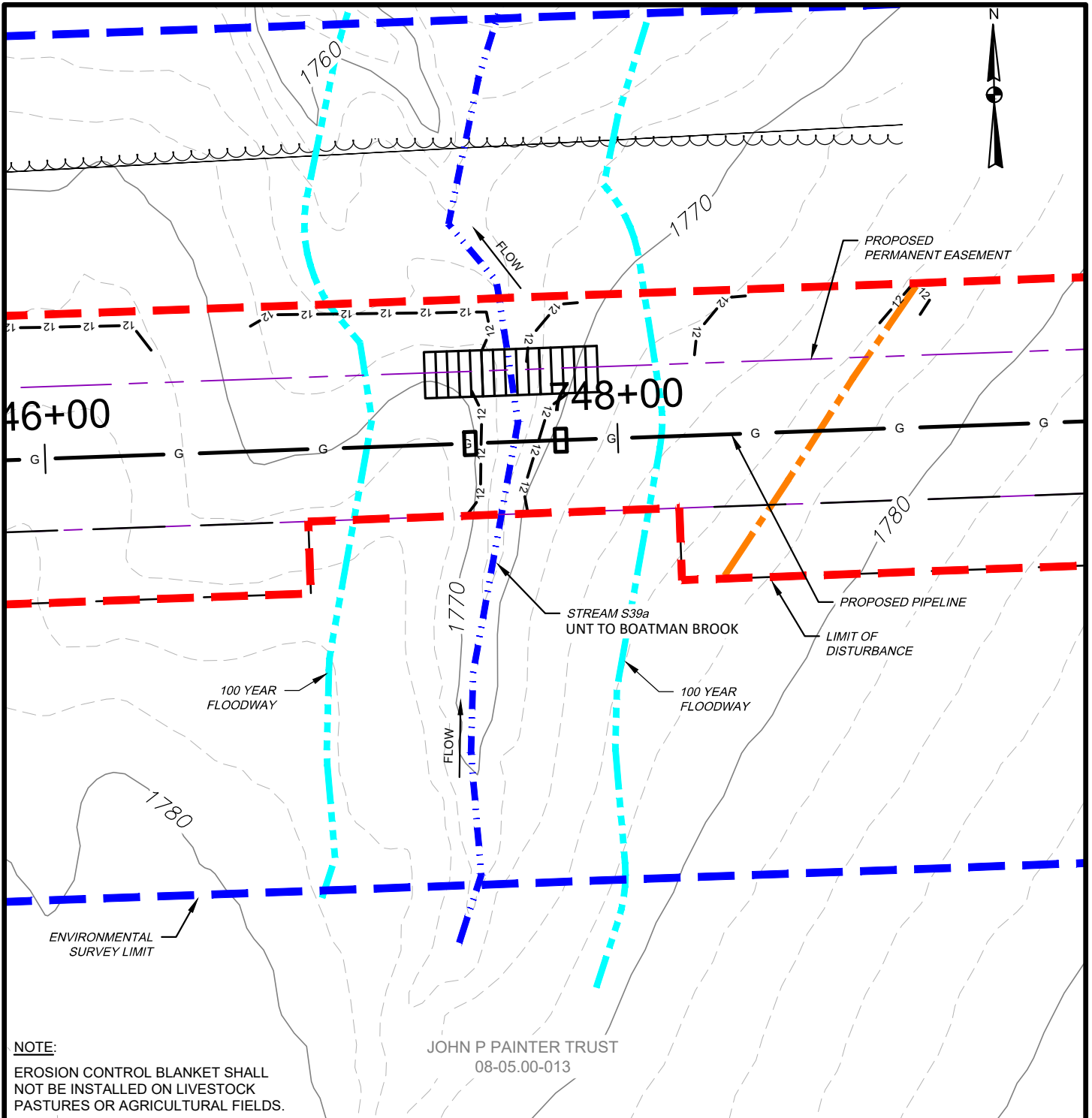
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**FIGURE 31A**



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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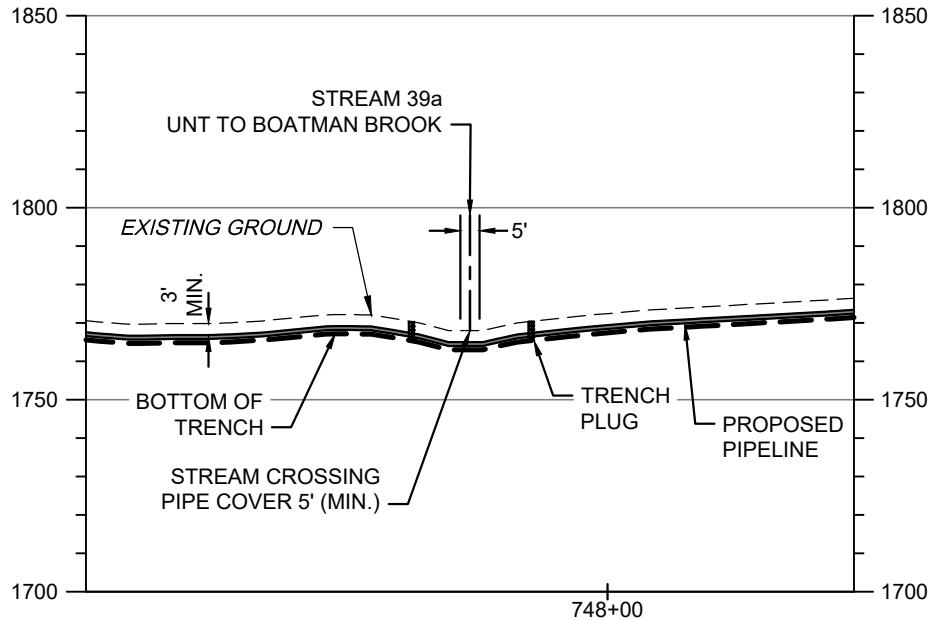
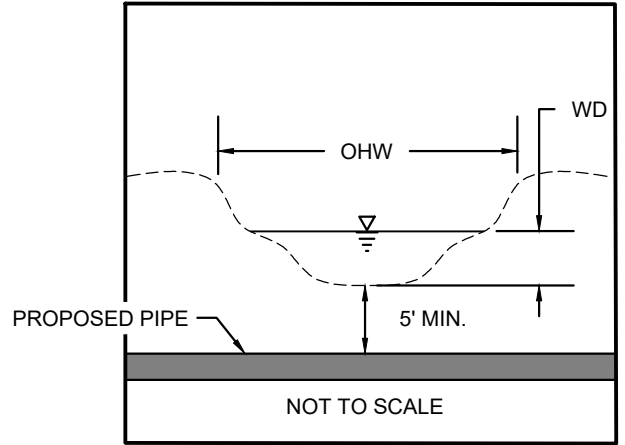
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<b>FIGURE 32</b>	

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



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

**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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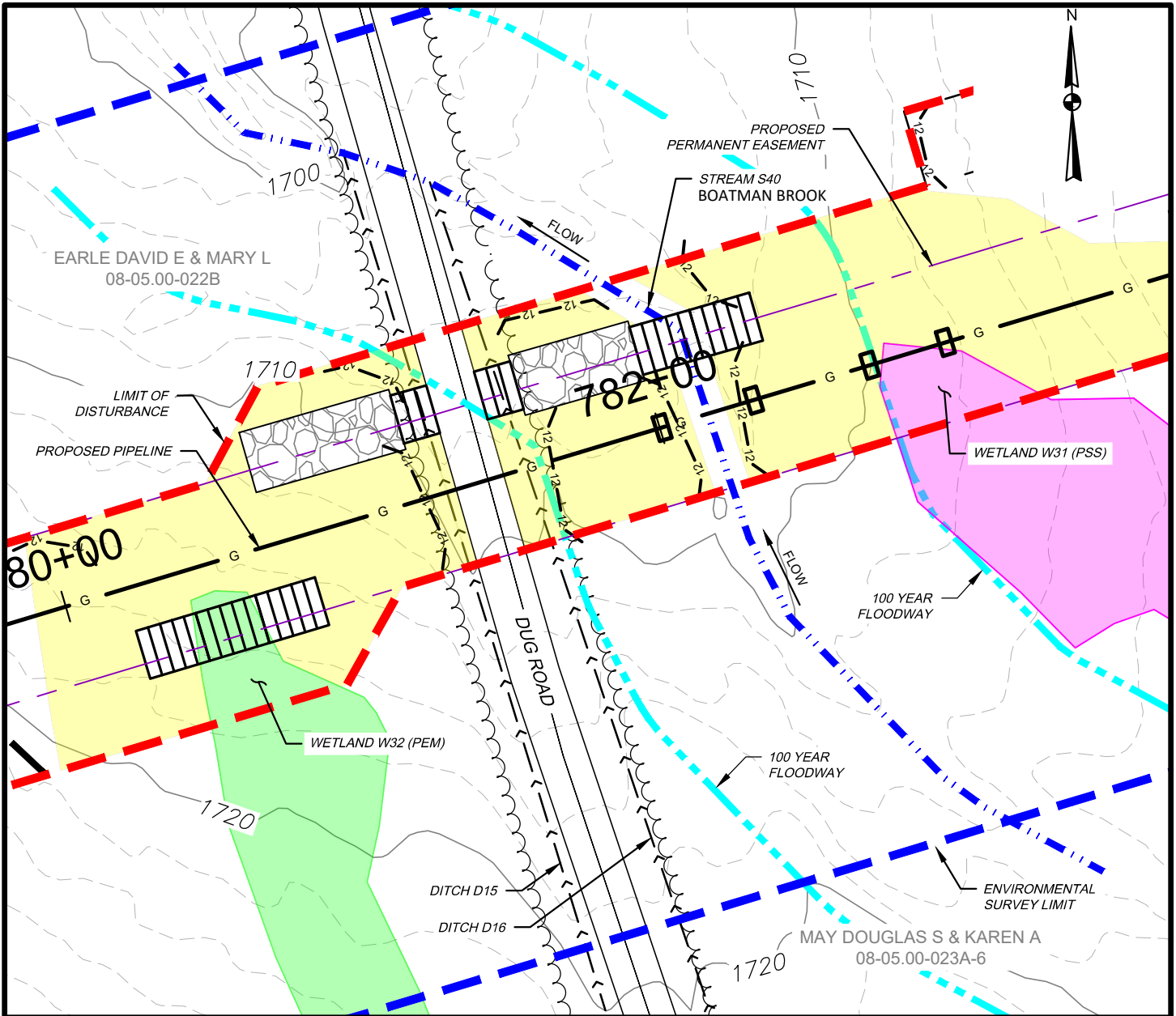
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**FIGURE 32A**



**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



**TETRA TECH**

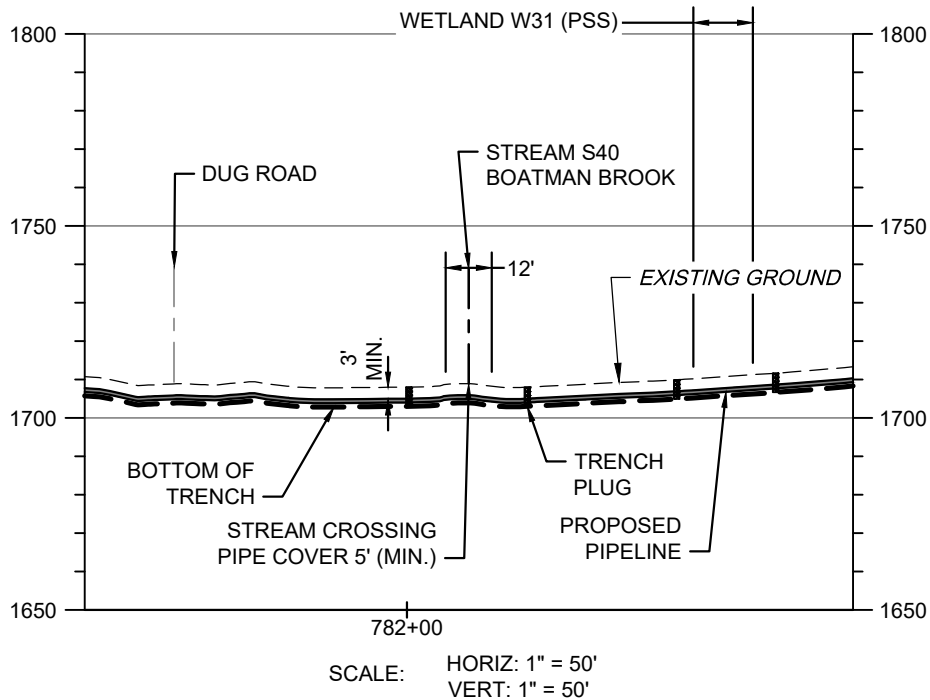
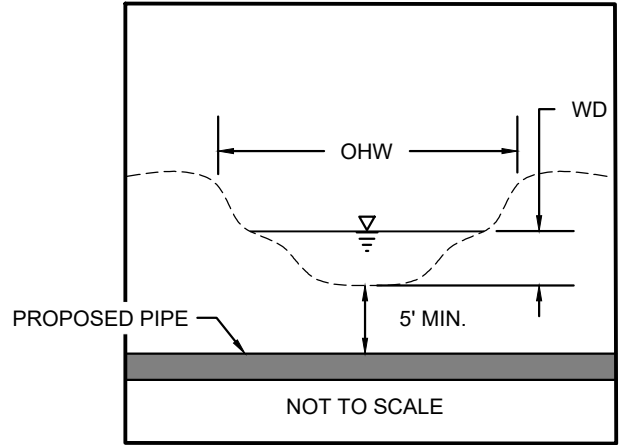
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<b>FIGURE 33</b>	

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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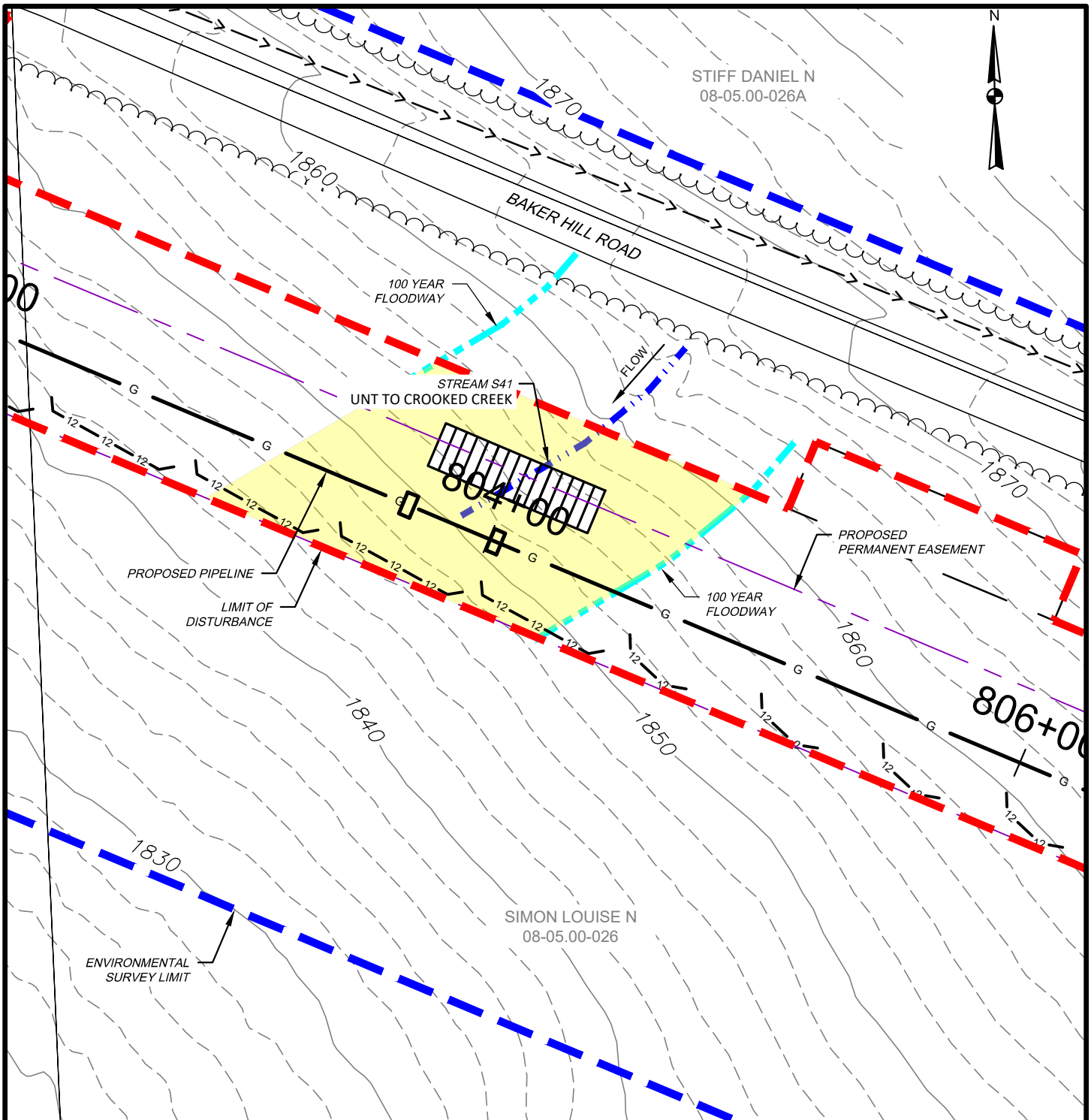
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**FIGURE 33A**



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



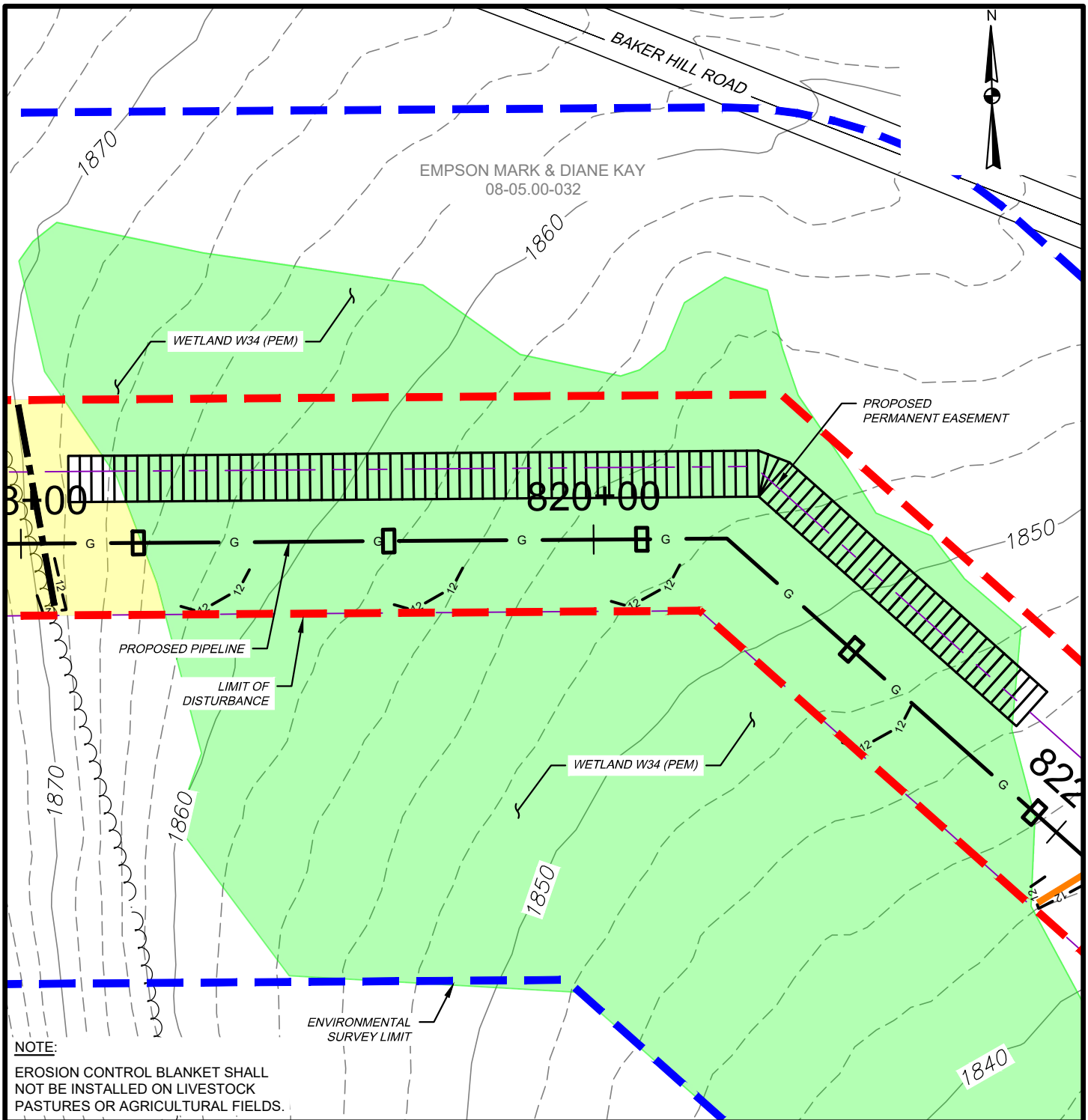
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 DEERFIELD TWP, TIOGA COUNTY  
 SCALE: 1" = 50'

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<b>FIGURE 34</b>	



**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	
15.50	W34	41.911875	-77.425407	DEERFIELD	0.508	-	-	0.079	-	-	PIPE; TMPWI; WTDIM



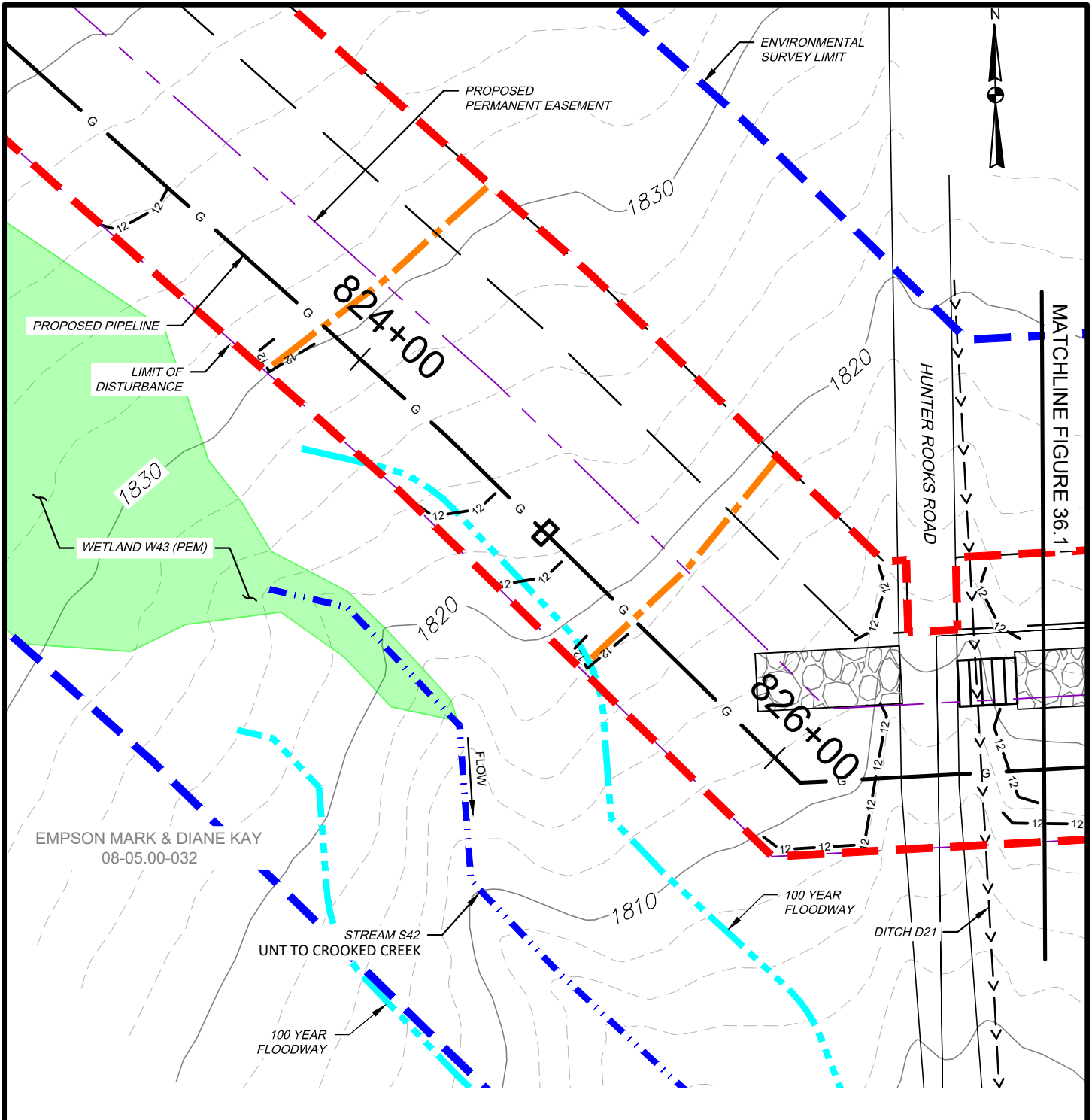
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<b>FIGURE 35</b>	



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



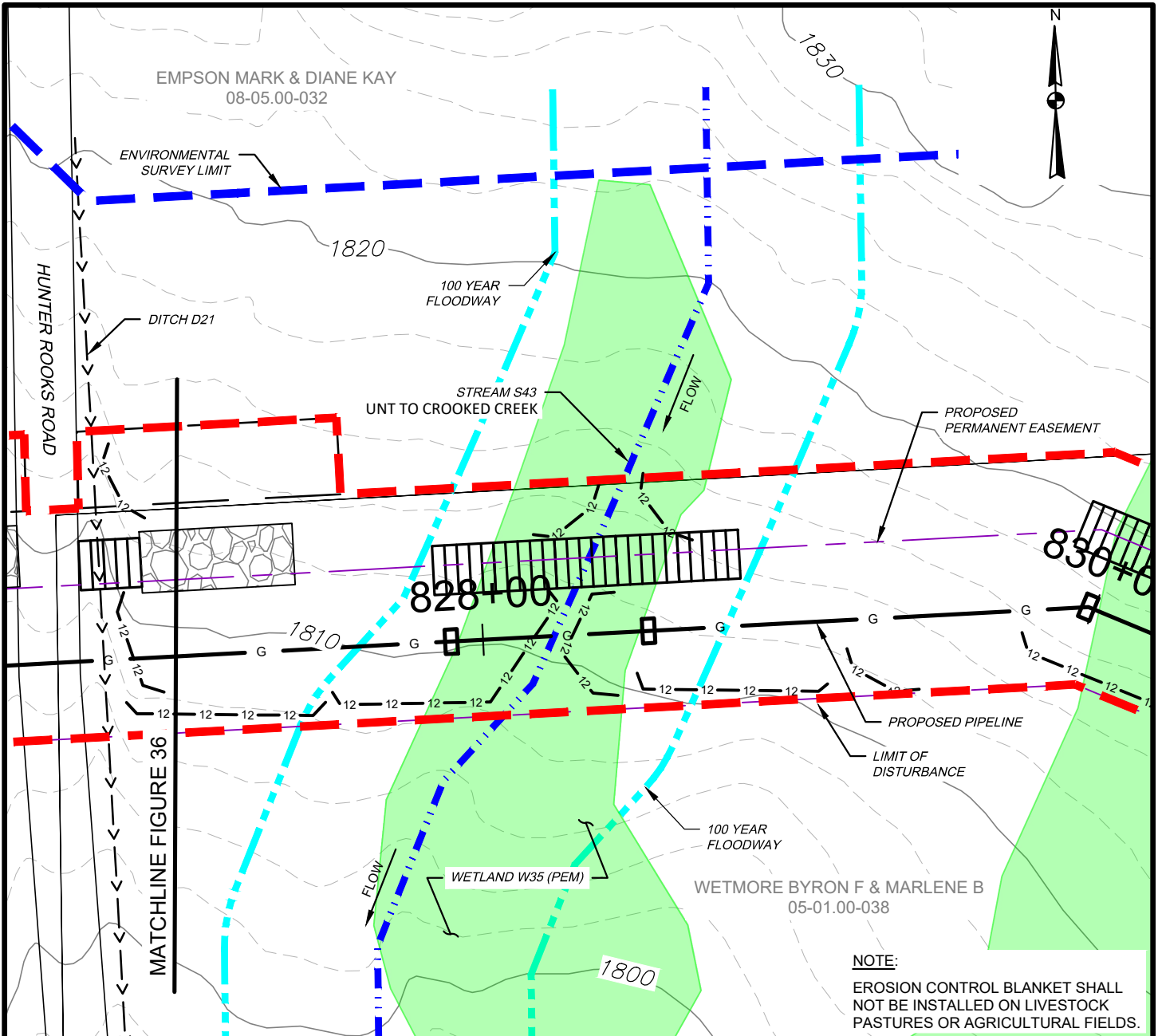
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<b>FIGURE 36</b>	



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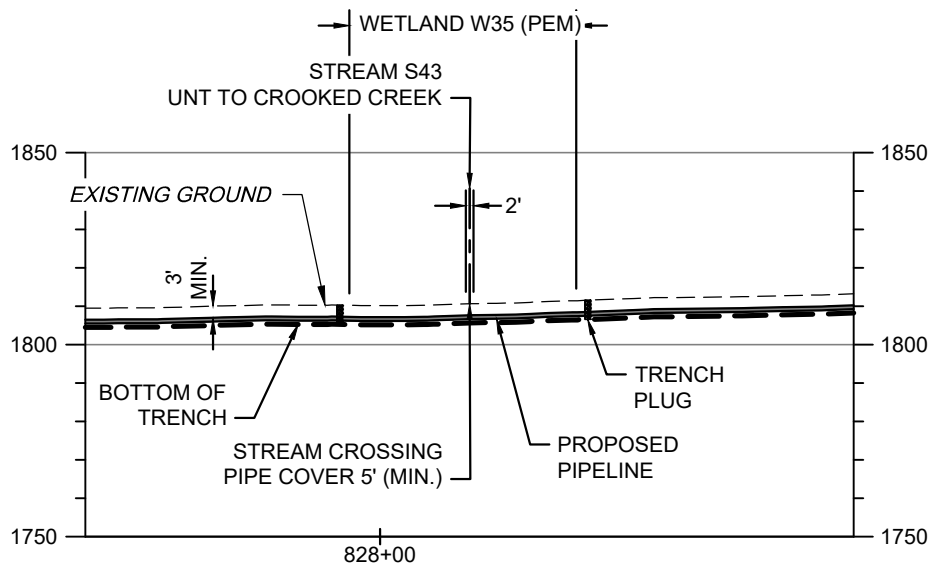
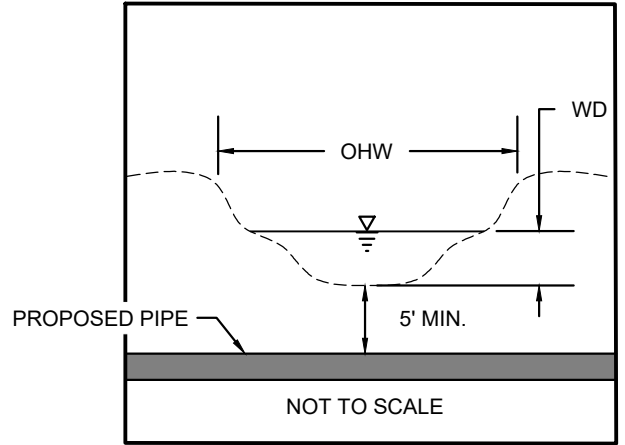
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S43 BANK TO BANK WIDTH (OHW) = 2'  
 S43 WATER DEPTH (WD) = 2"



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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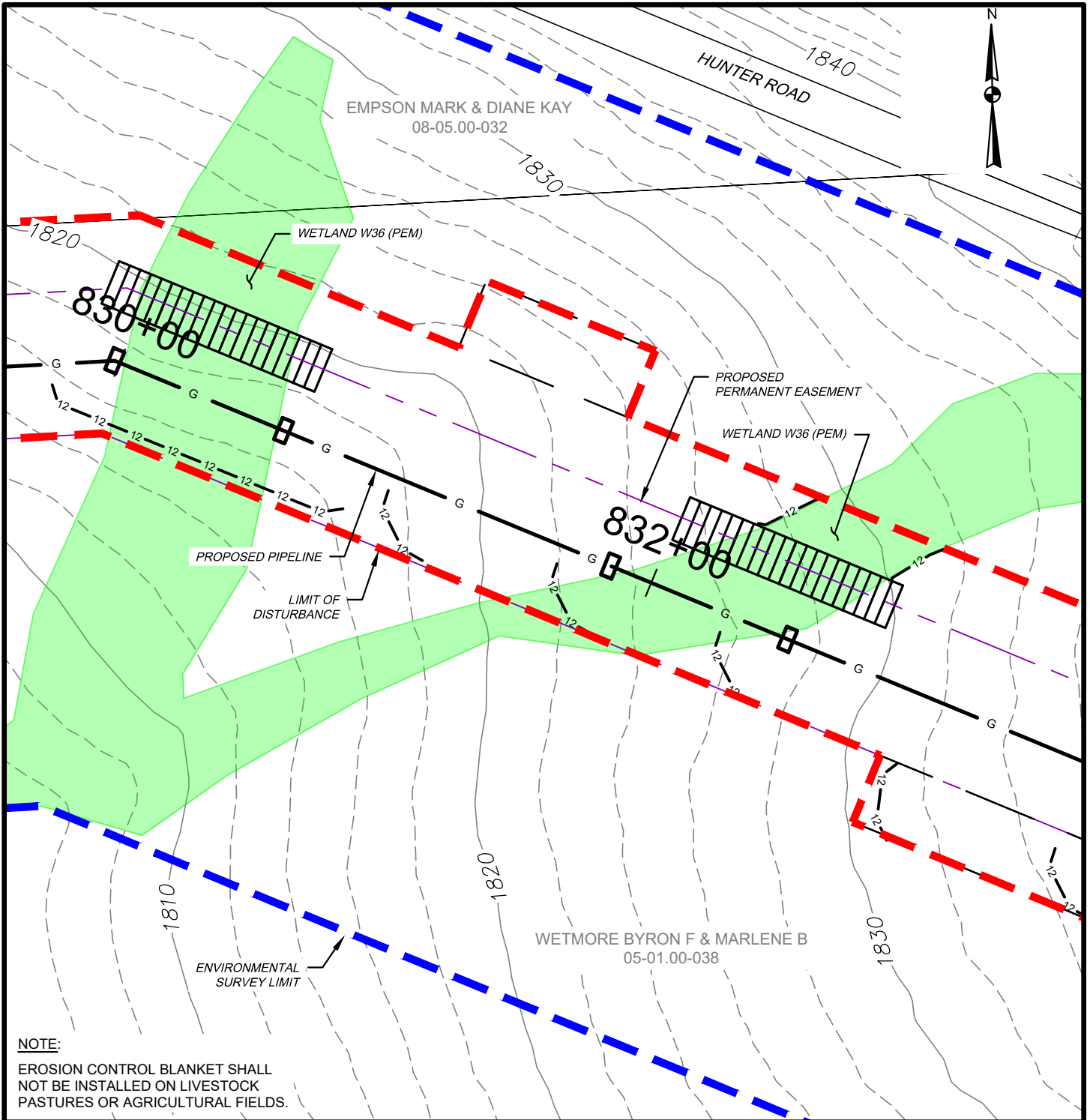
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 SCALE: AS NOTED

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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



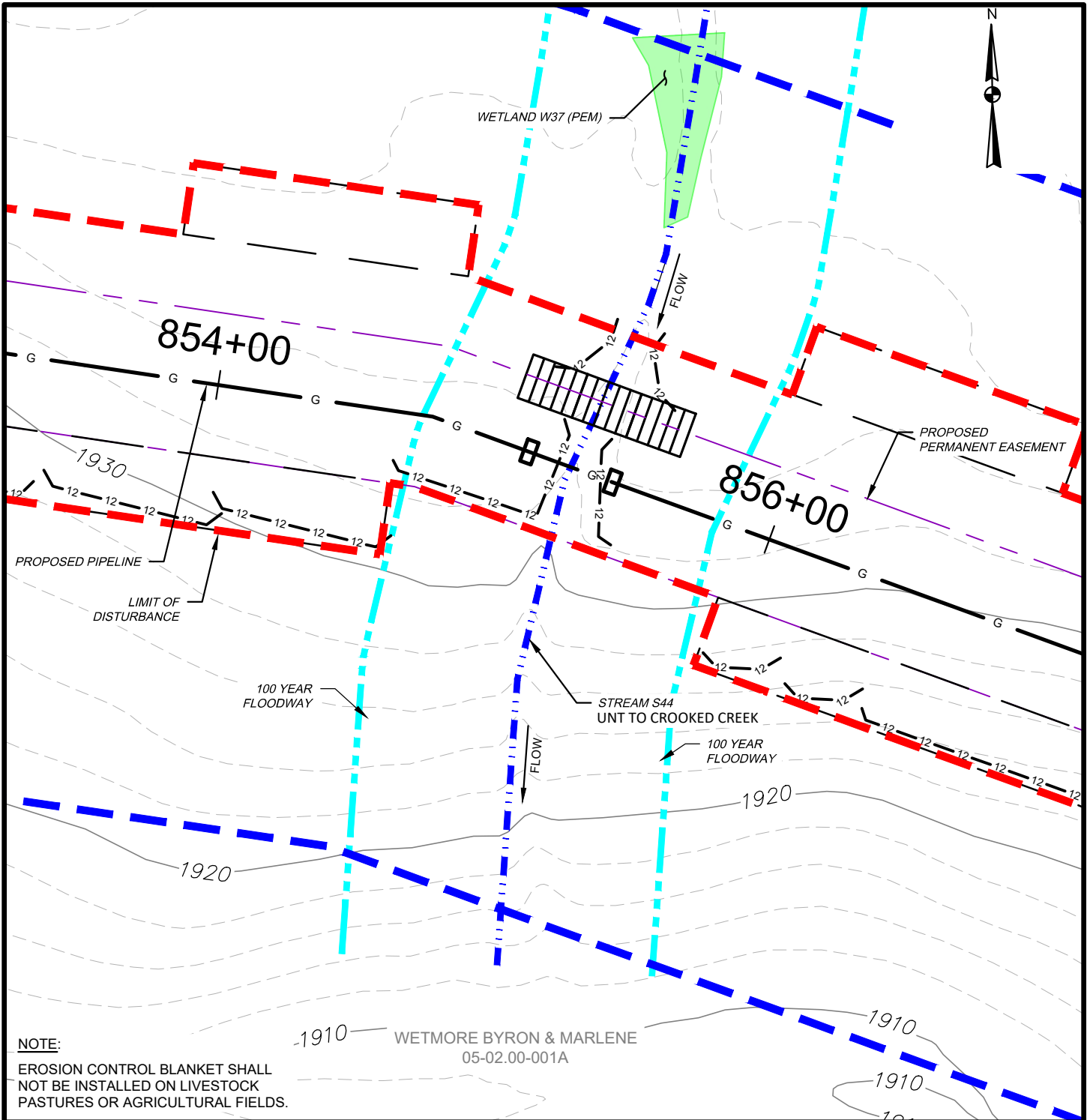
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 SCALE: 1" = 50'

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<b>FIGURE 37</b>	



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

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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.)	
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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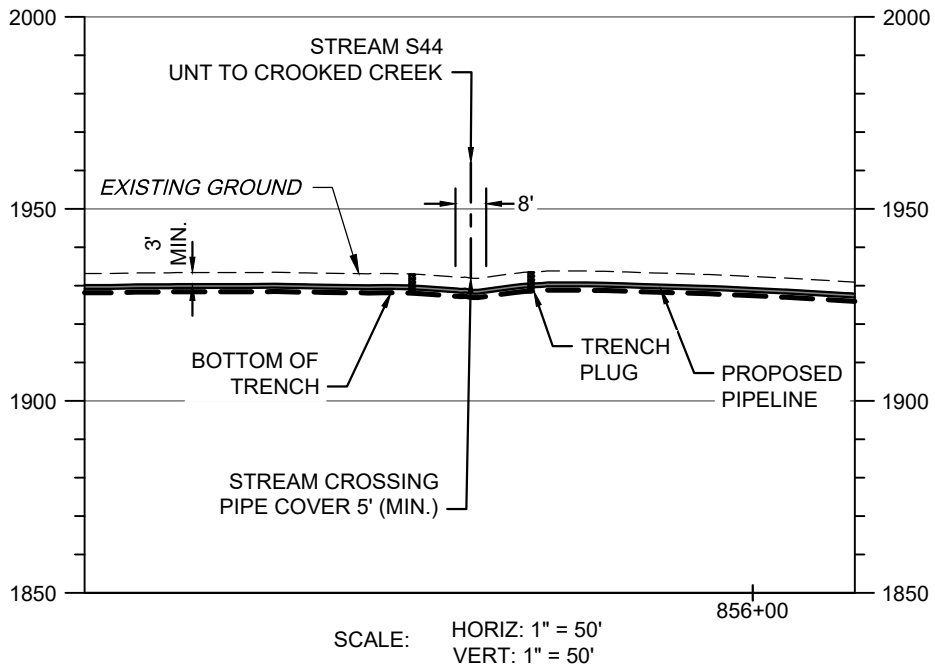
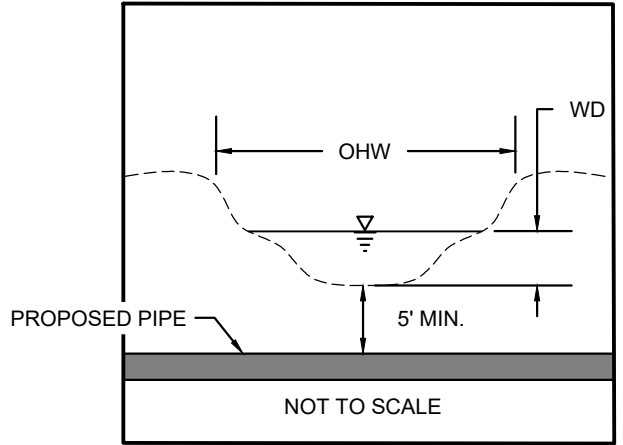
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 YM59 PIPELINE  
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 SCALE: 1" = 50'

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<b>FIGURE 38</b>	

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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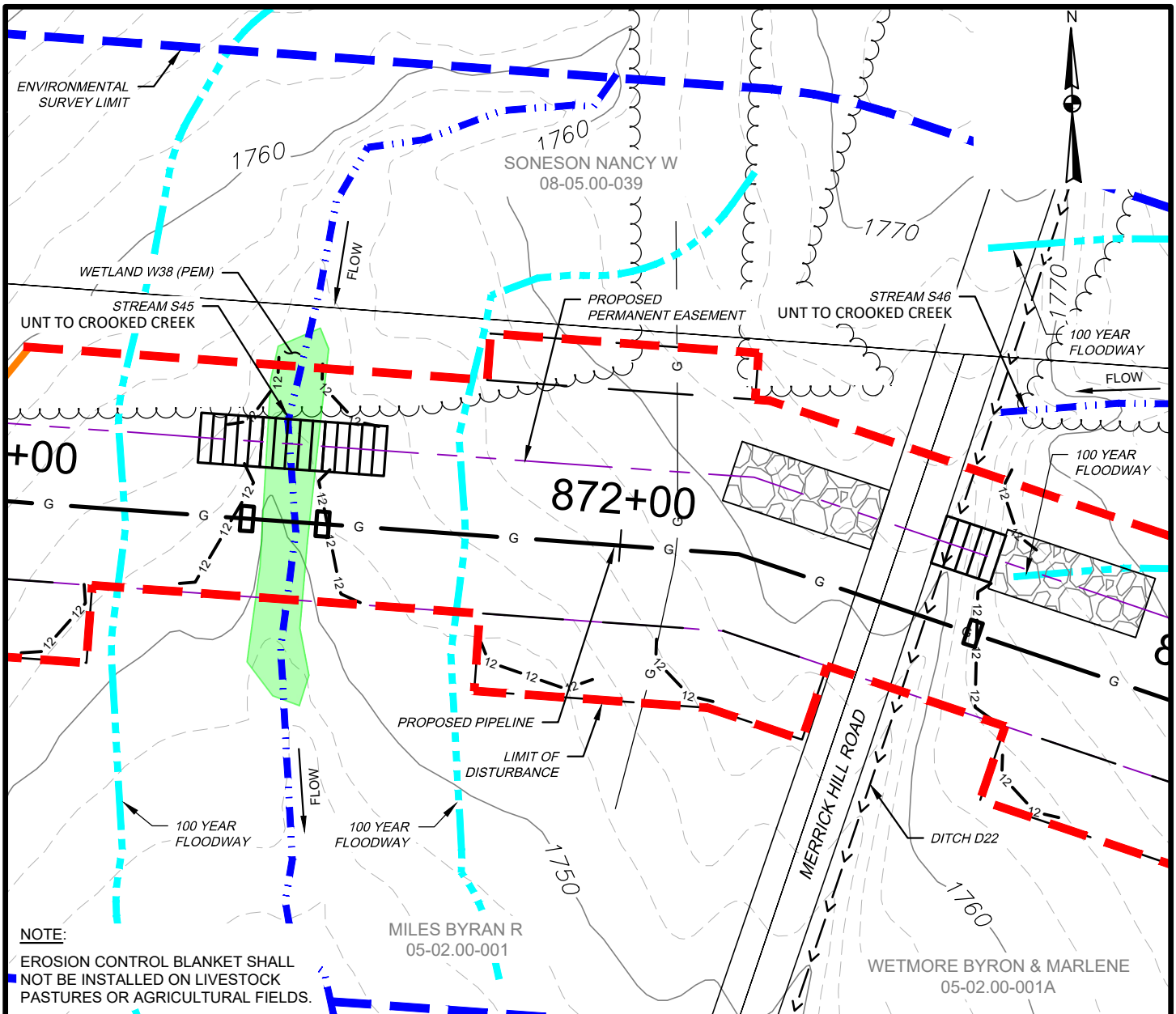
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**FIGURE 38A**



**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.)	
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



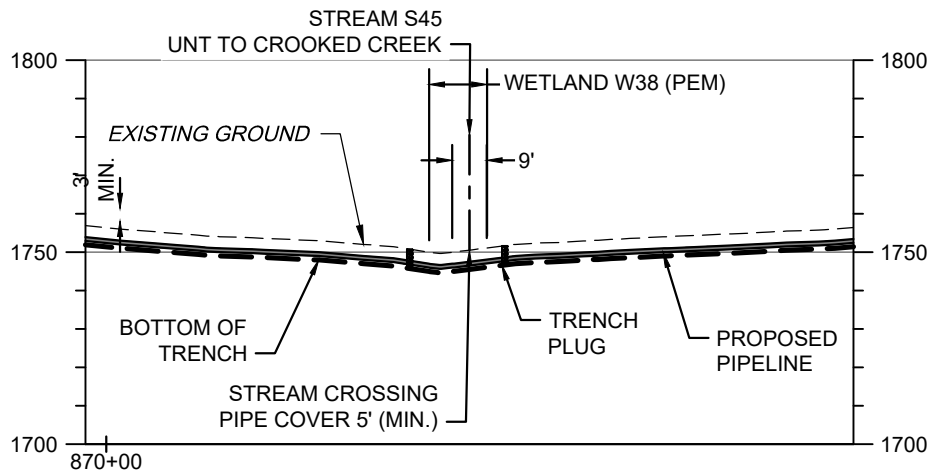
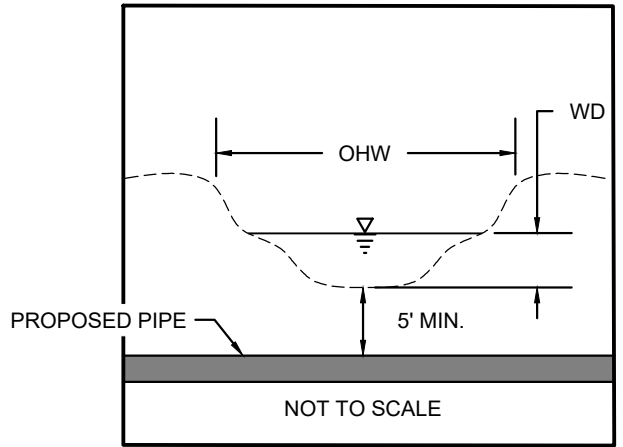
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 SCALE: 1" = 50'

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<b>FIGURE 39</b>	

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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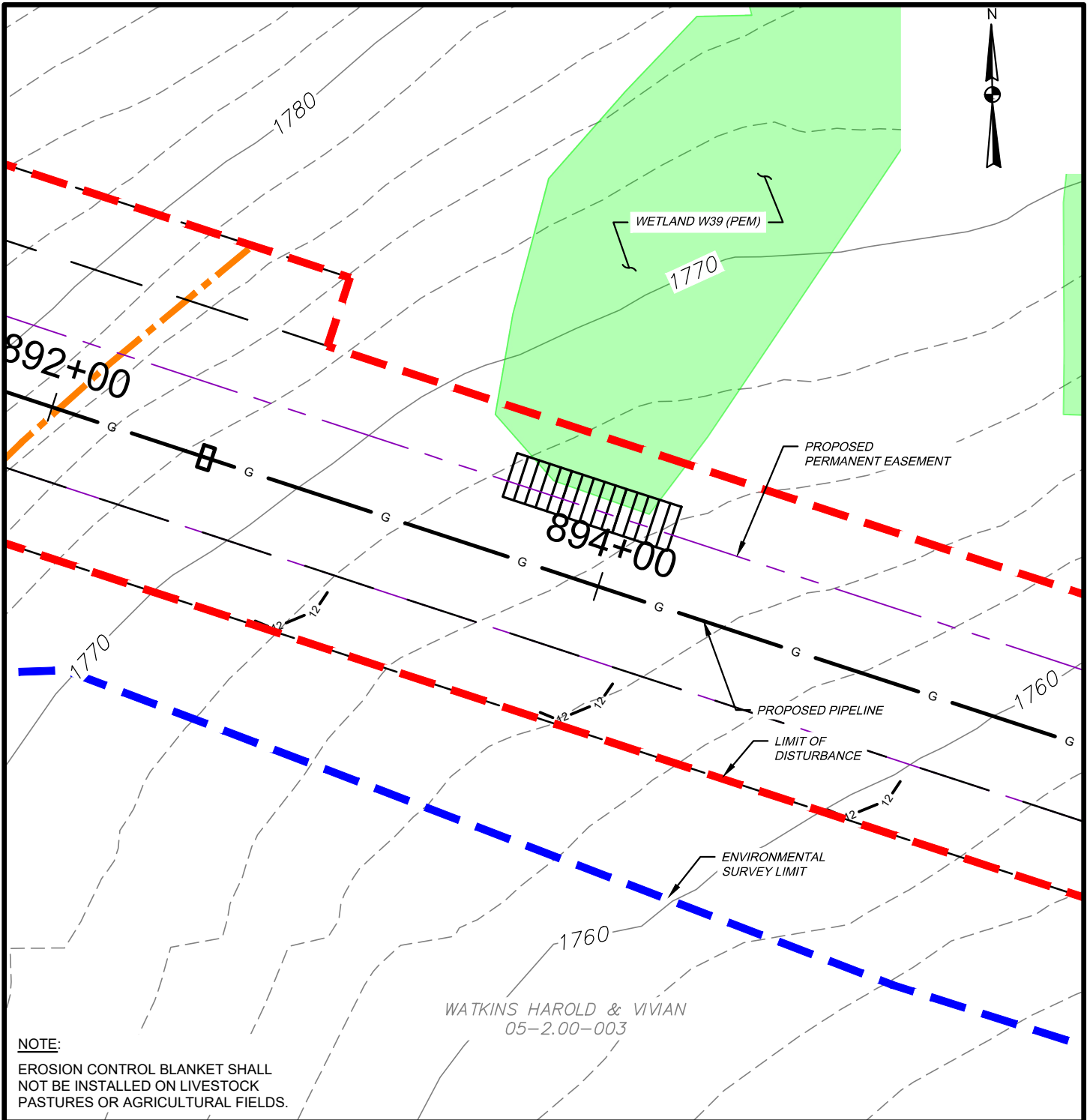
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**FIGURE 39A**



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



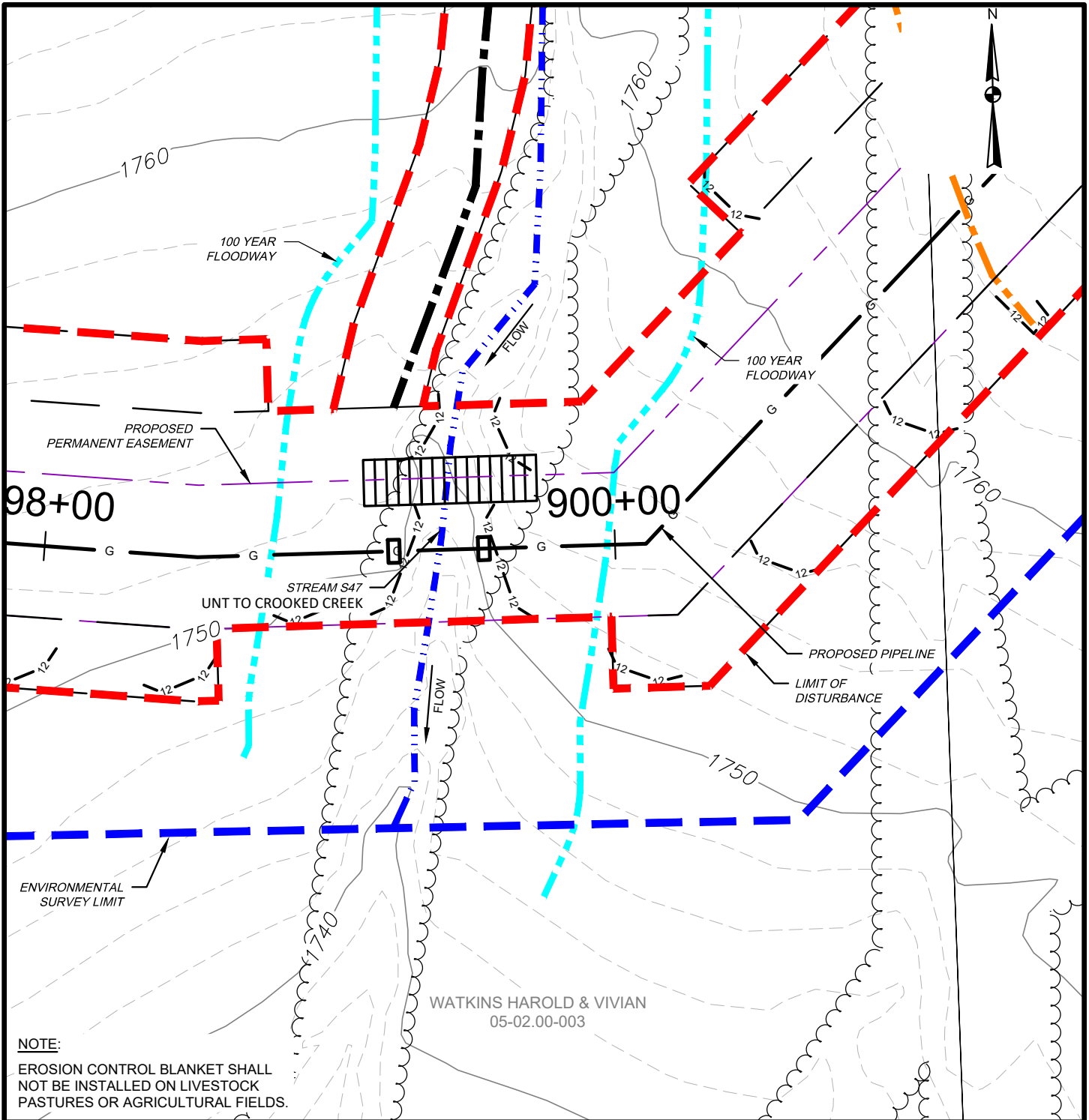
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<b>FIGURE 40</b>	



**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.)	
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**

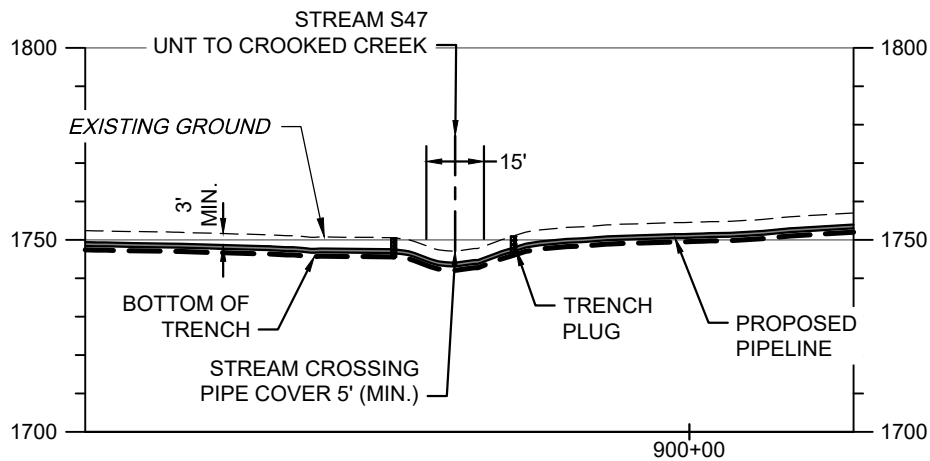
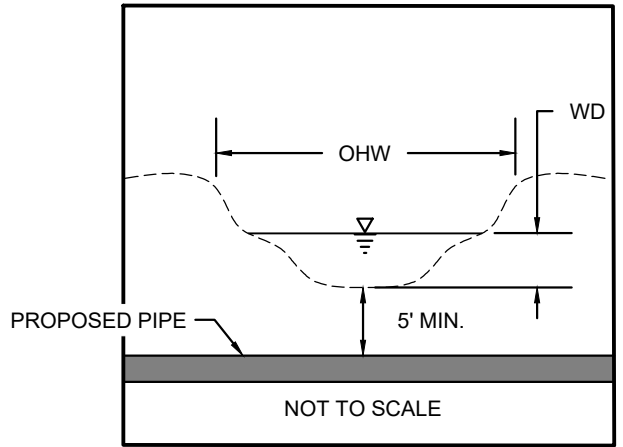
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 SCALE: 1" = 50'

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<b>FIGURE 41</b>	

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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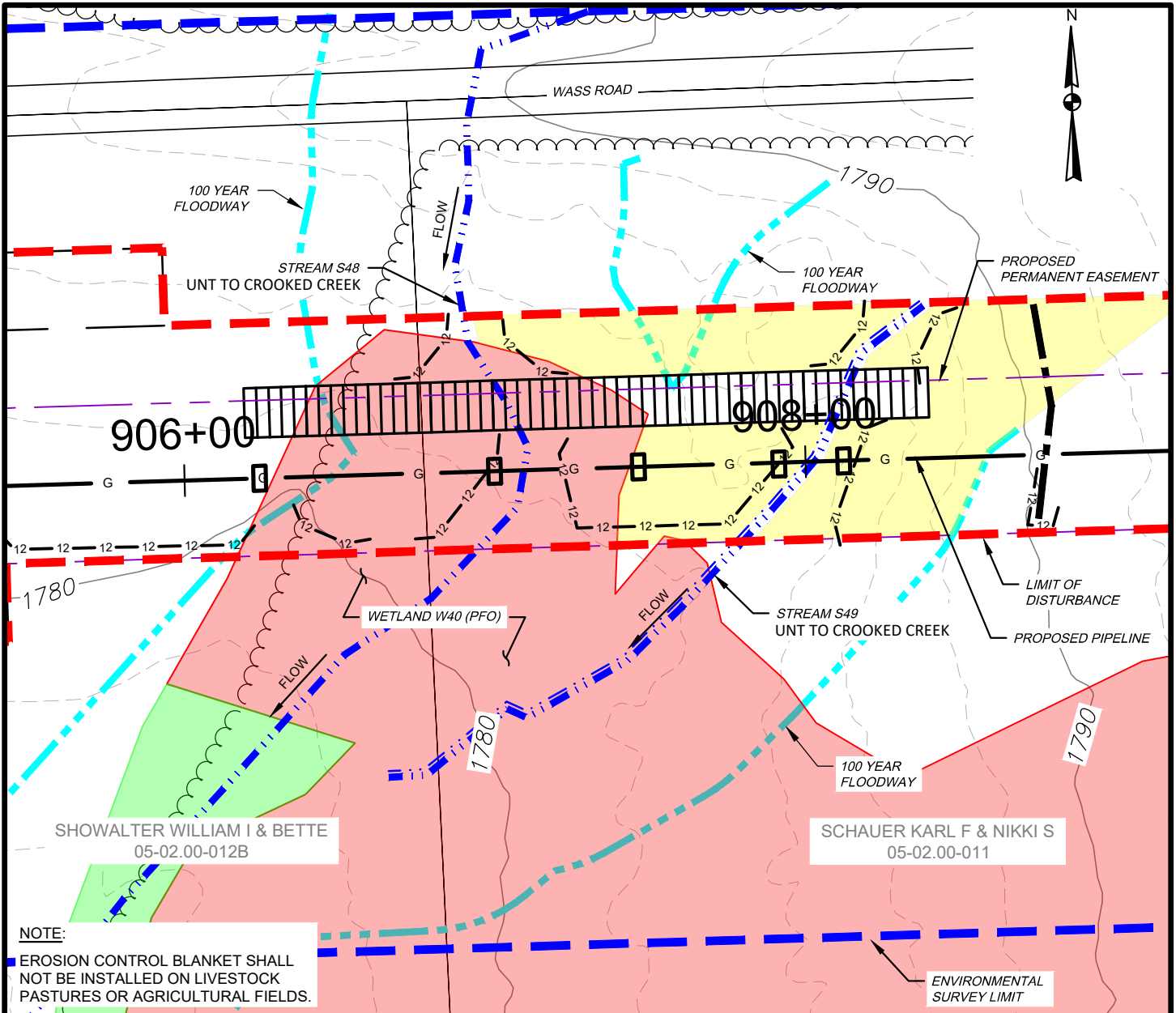
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**FIGURE 41A**



**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	
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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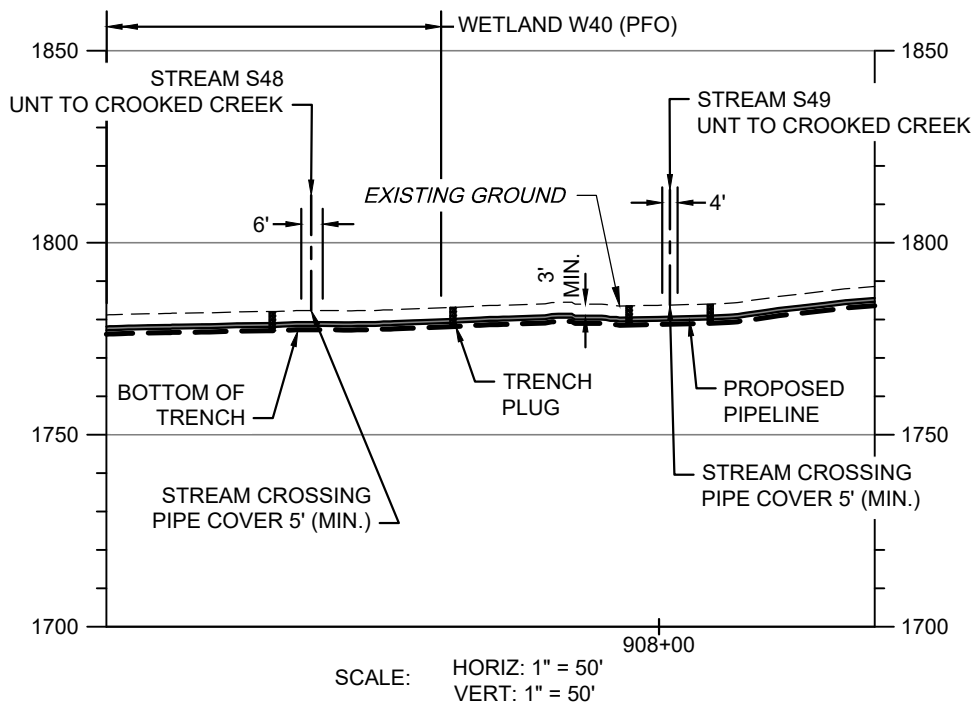
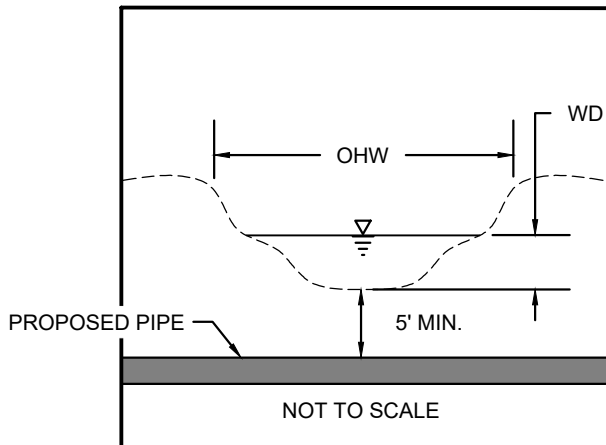
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**FIGURE 42**

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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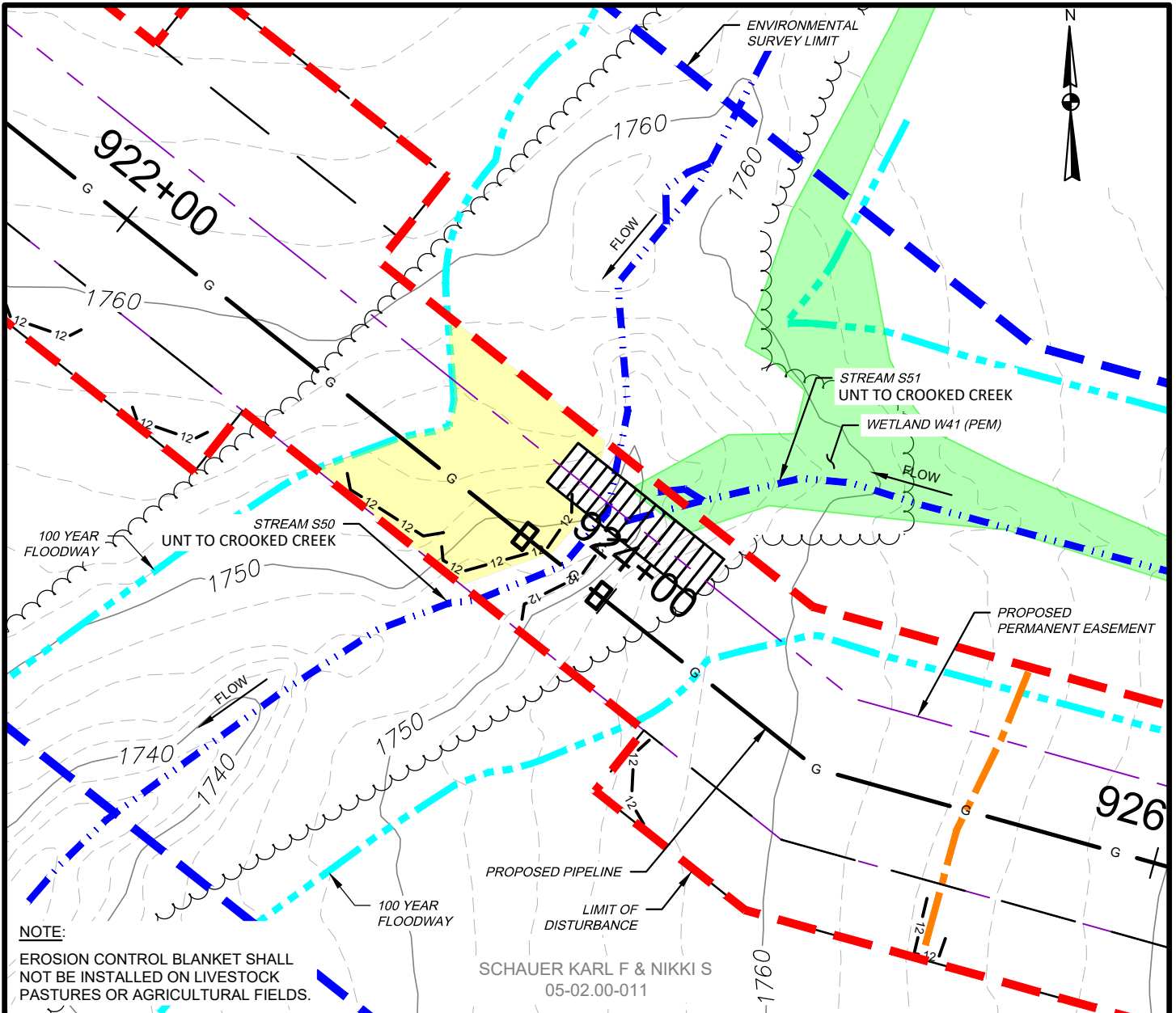
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**FIGURE 42A**



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

SCHAUER KARL F & NIKKI S  
 05-02-00-011

**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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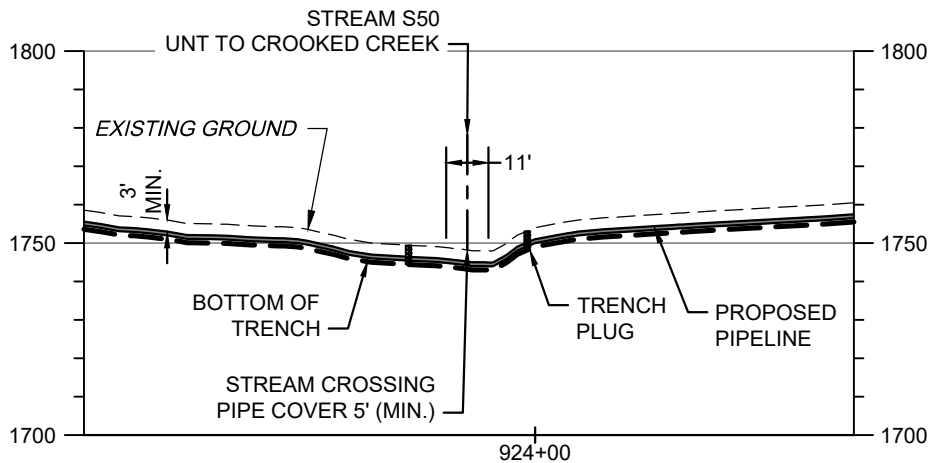
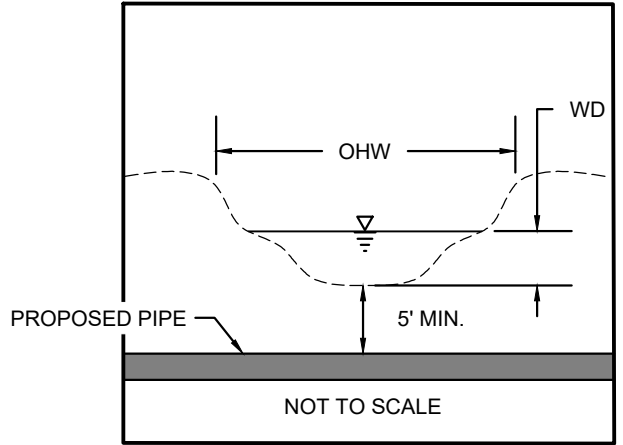
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<b>FIGURE 43</b>	

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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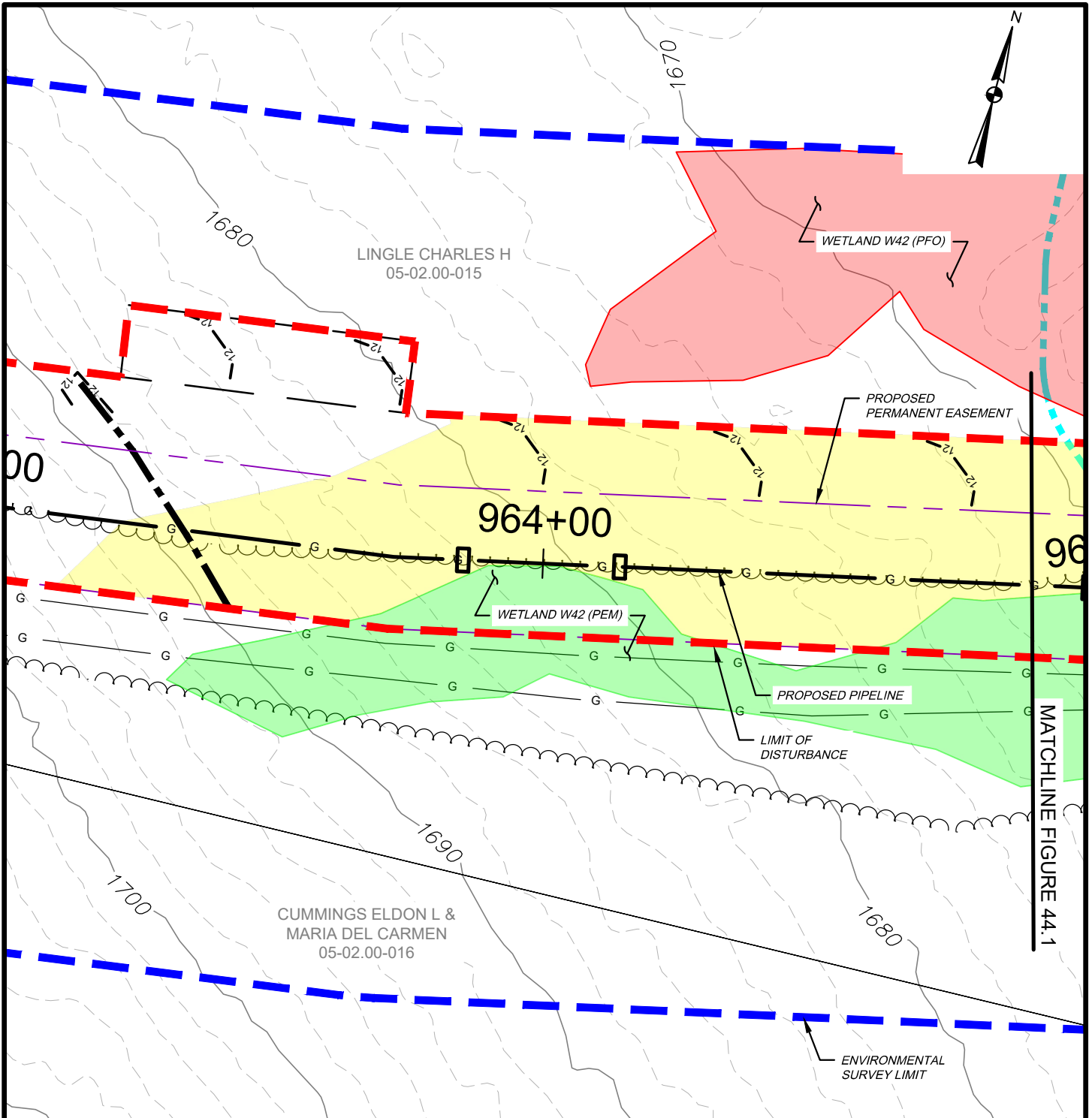
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**FIGURE 43A**



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



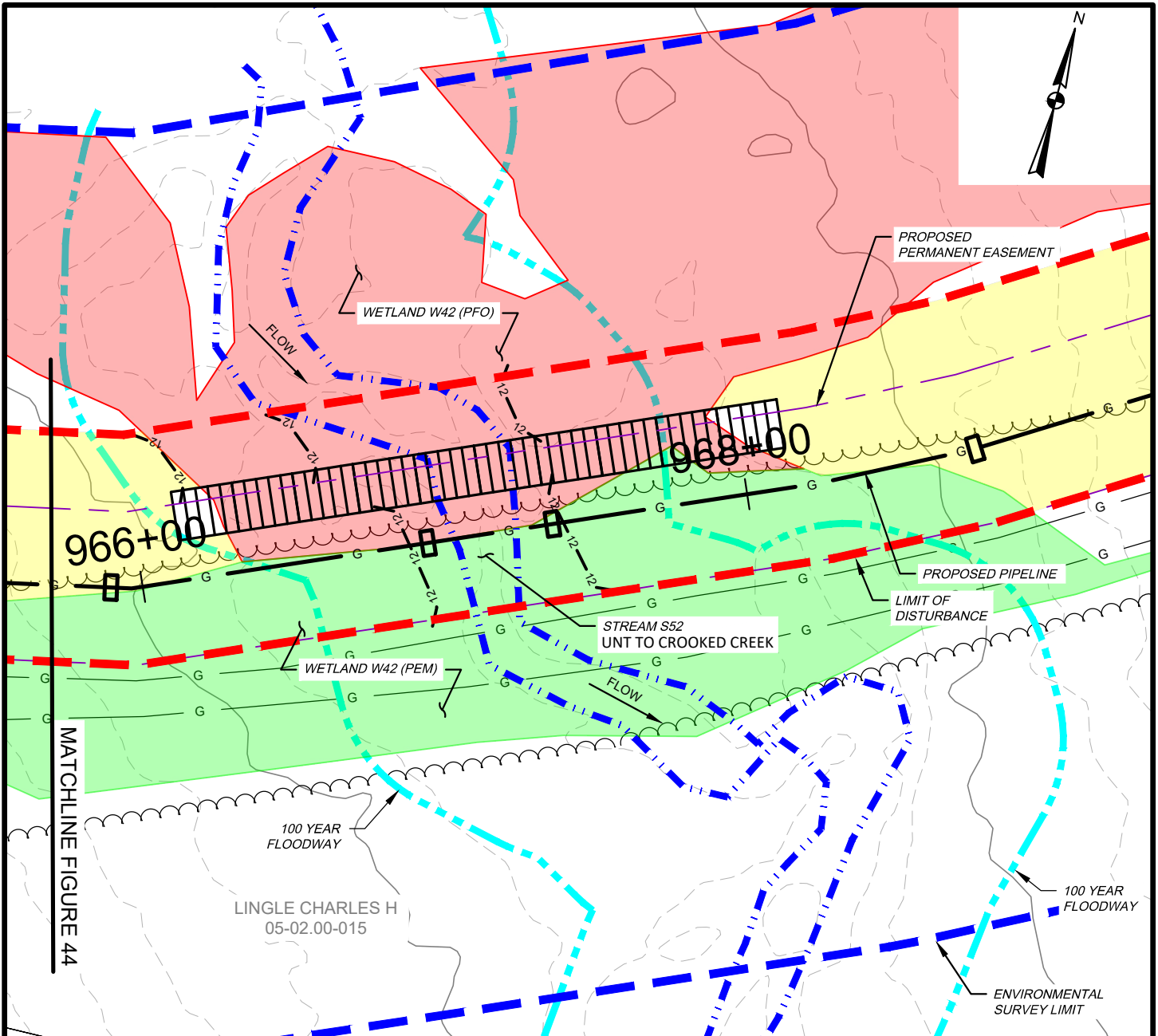
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 SCALE: 1" = 50'

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<b>FIGURE 44</b>	



**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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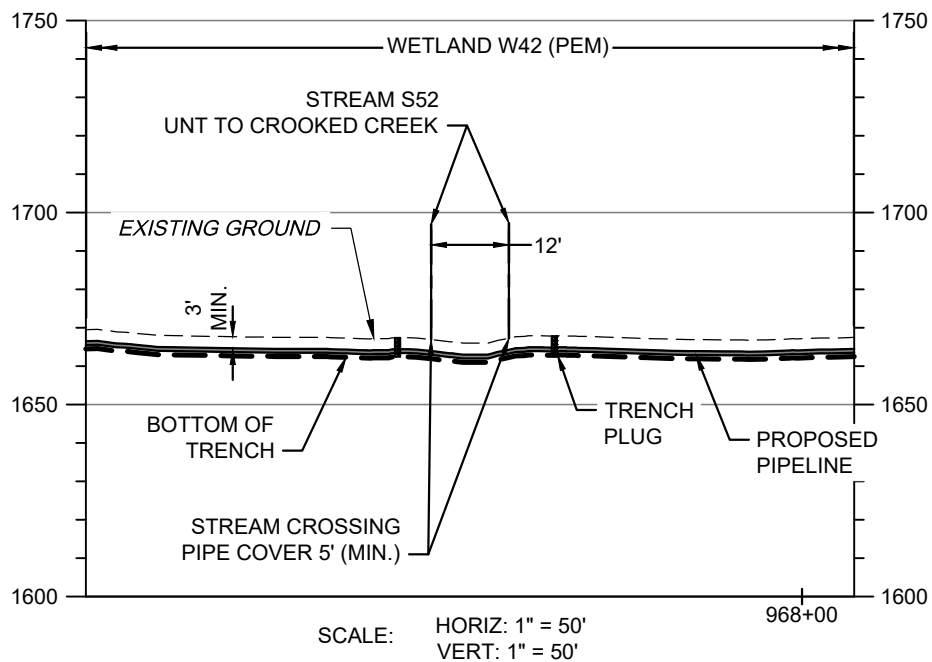
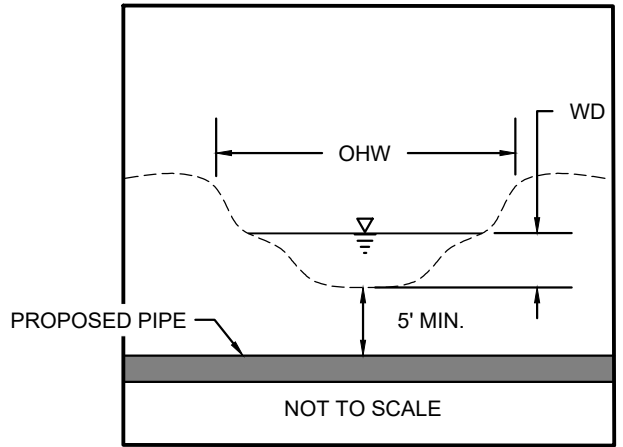
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**FIGURE 44.1**

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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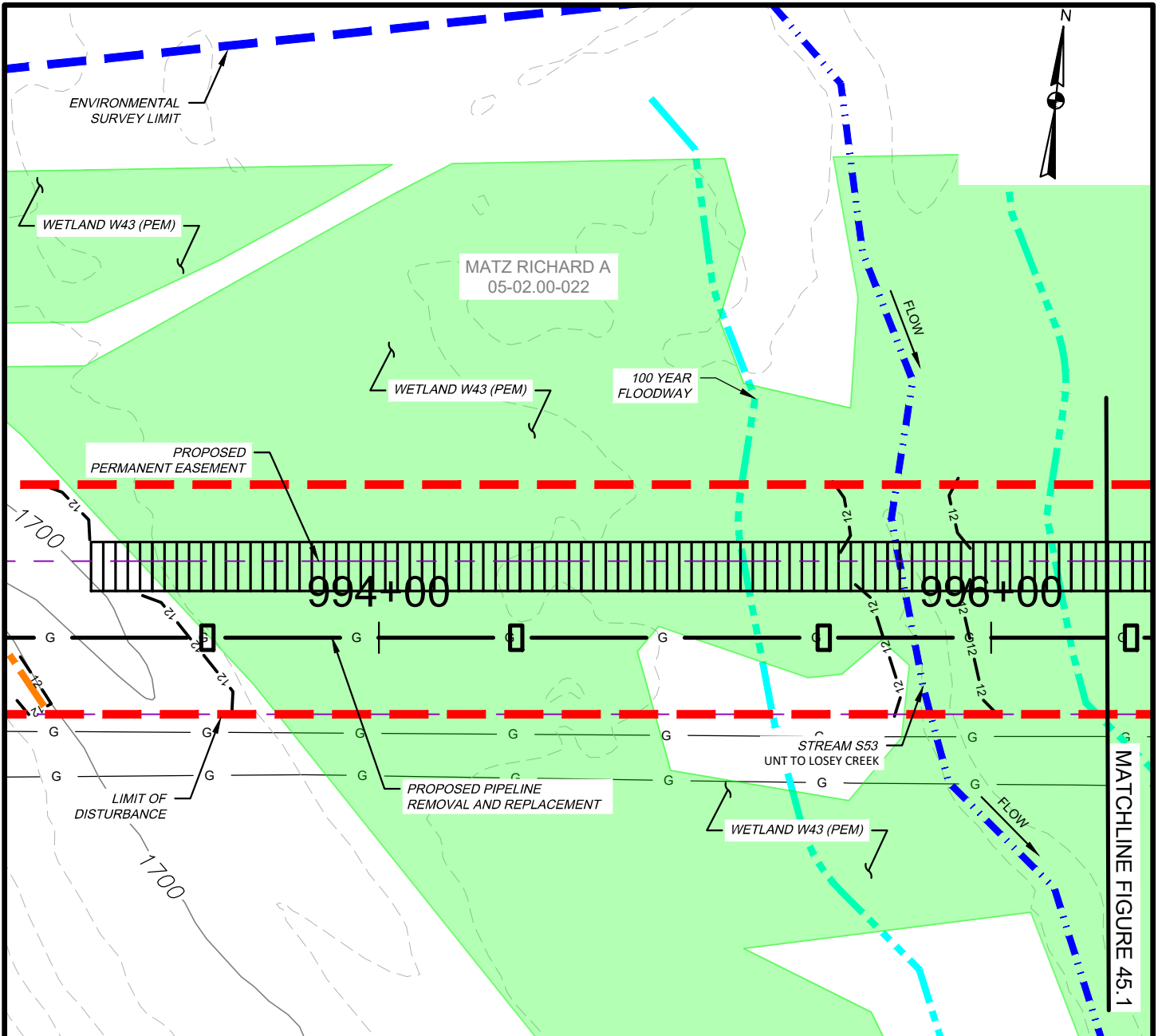
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**FIGURE 44A**



**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



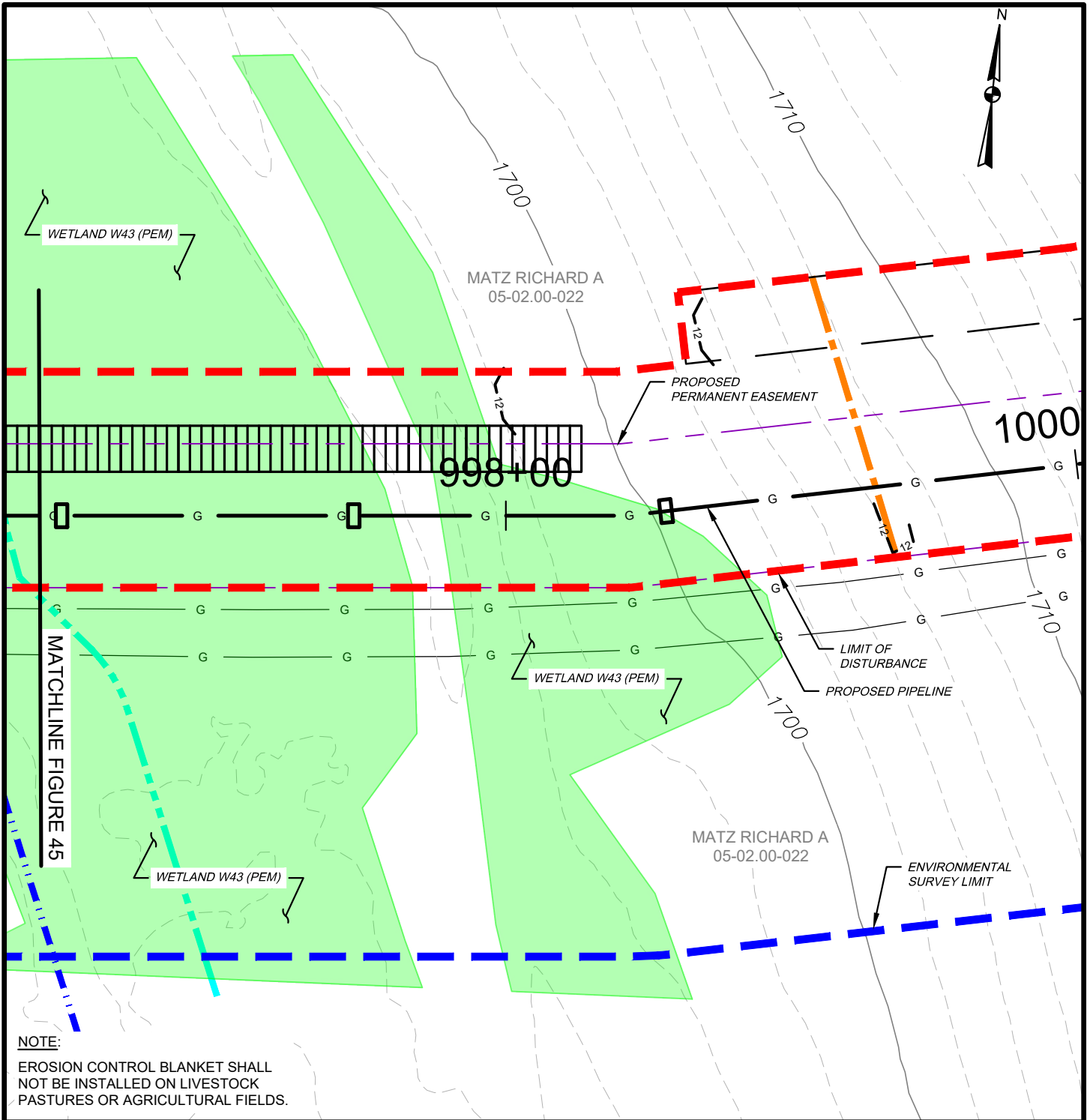
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 SCALE: 1" = 50'

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<b>FIGURE 45</b>	



**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	
18.82	W43	41.90299	-77.37074	CHATHAM	0.670	-	-	0.109	-	-	PIPE; TMPWI; WTDIM



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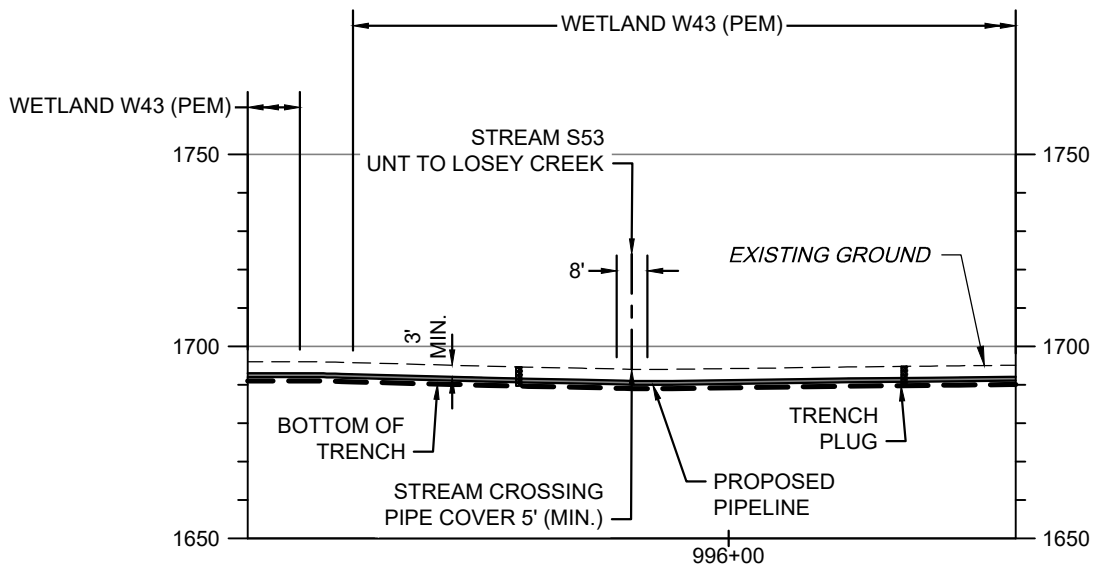
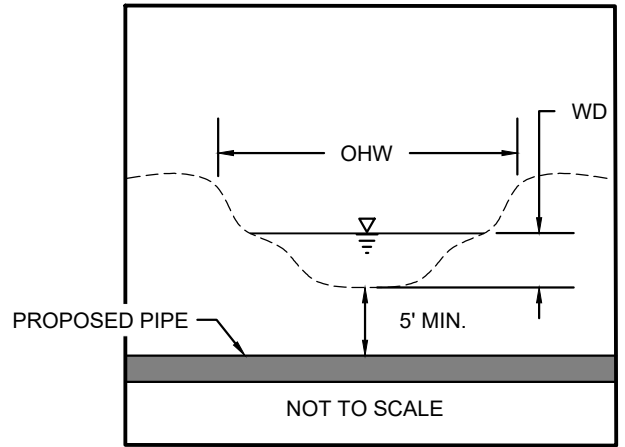
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TIOGA PATHWAY PROJECT  
SITE SPECIFICS  
YM59 PIPELINE  
CHATHAM TWP, TIOGA COUNTY  
SCALE: 1" = 50'

DATE:	11/01/2024
PROJECT NO.:	212C-BF-00493
DESIGNED BY:	BC
DRAWN BY:	BC / JZ
CHECKED BY:	RD
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<b>FIGURE 45.1</b>	

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.



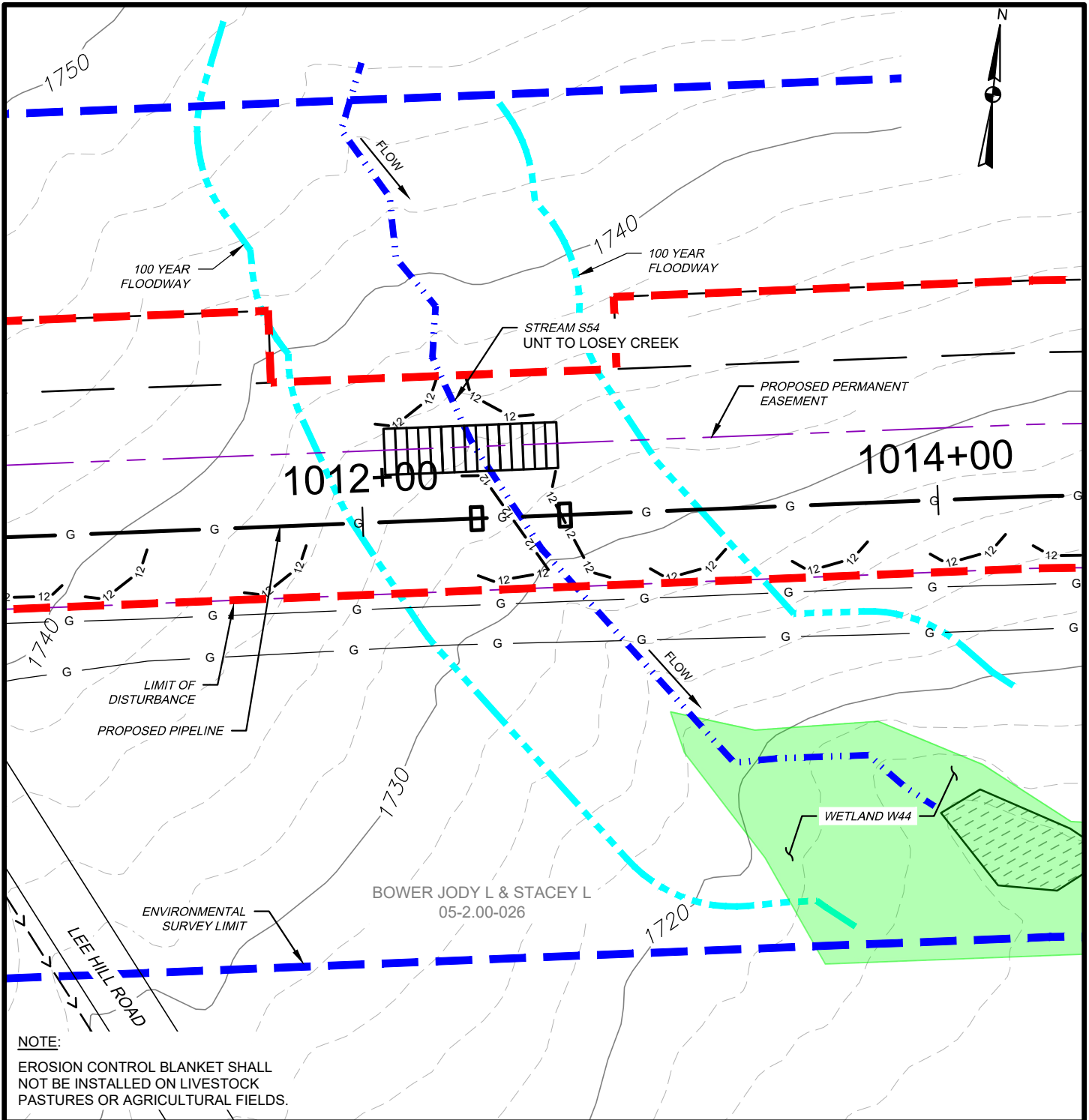
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 CHATHAM TWP, TIOGA COUNTY  
 SCALE: AS NOTED

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<b>FIGURE 45A</b>	



**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.)	
19.17	S54	UNT TO LOSEY CREEK	EPHEMERAL	1	41.904183	-77.364778	0.002	0.000	0.175	0.028	PIPE; BRDG; FLACT



**TETRA TECH**

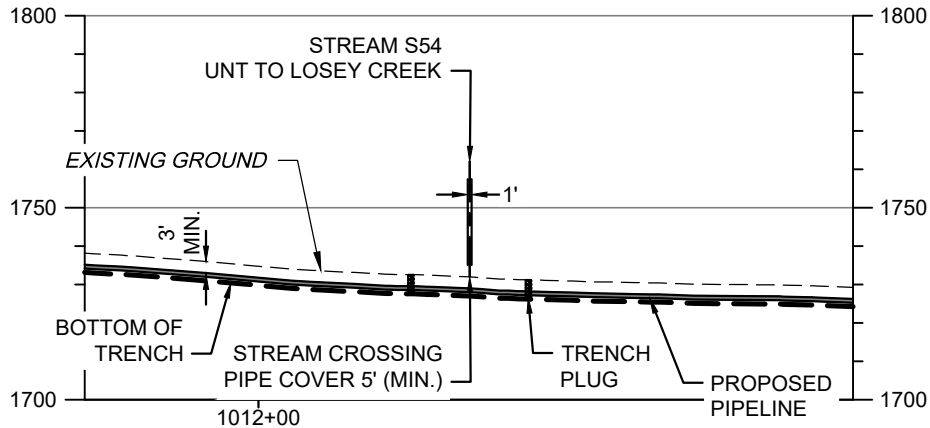
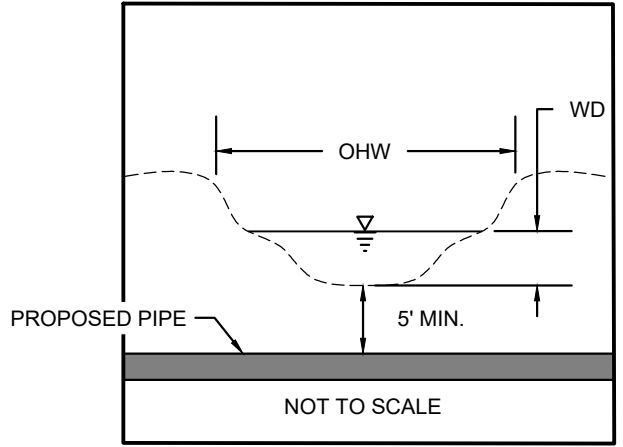
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 SITE SPECIFICS  
 YM59 PIPELINE  
 CHATHAM TWP, TIOGA COUNTY  
 SCALE: 1" = 50'

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<b>FIGURE 46</b>	

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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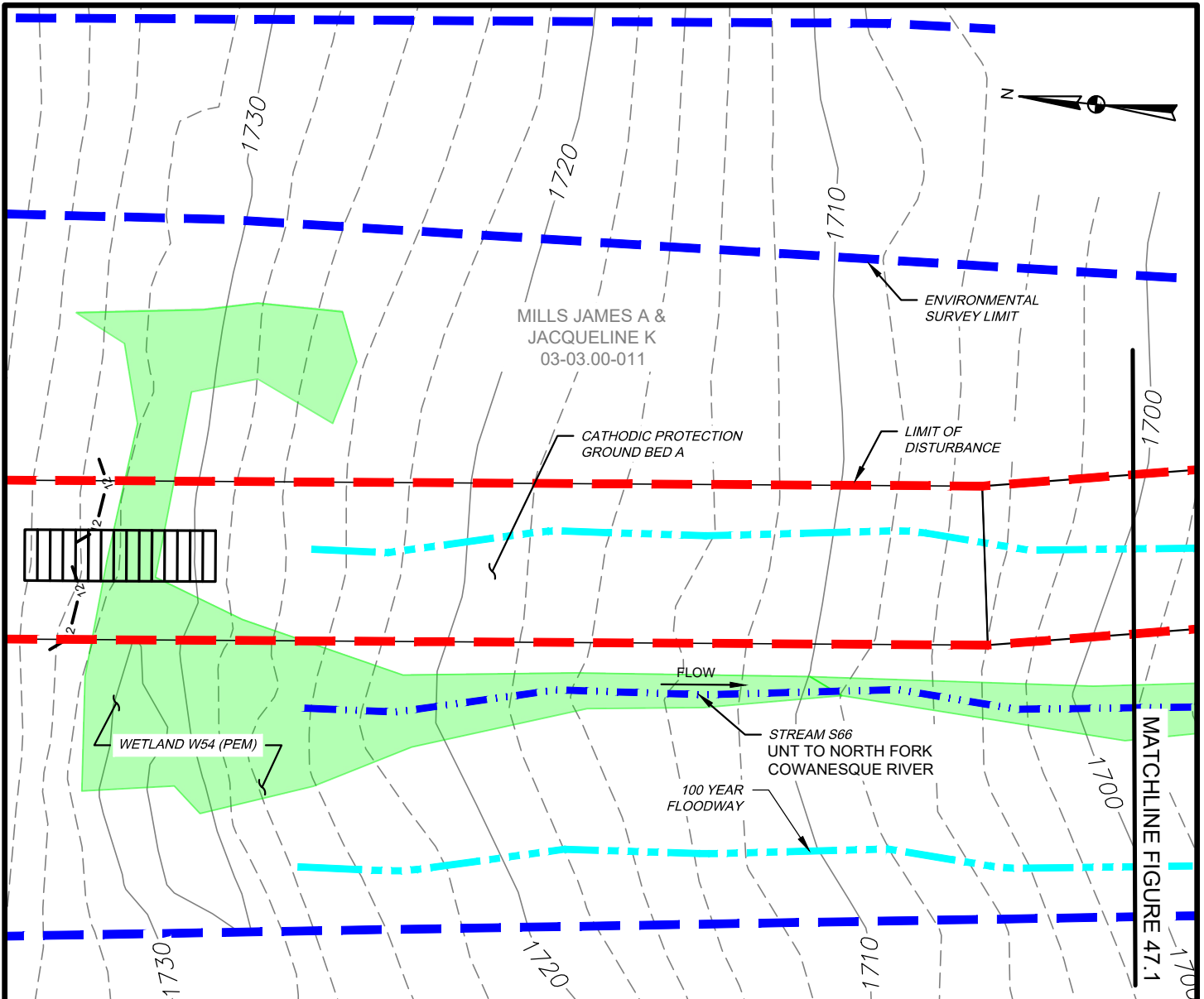
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 YM59 PIPELINE  
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 SCALE: AS NOTED

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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



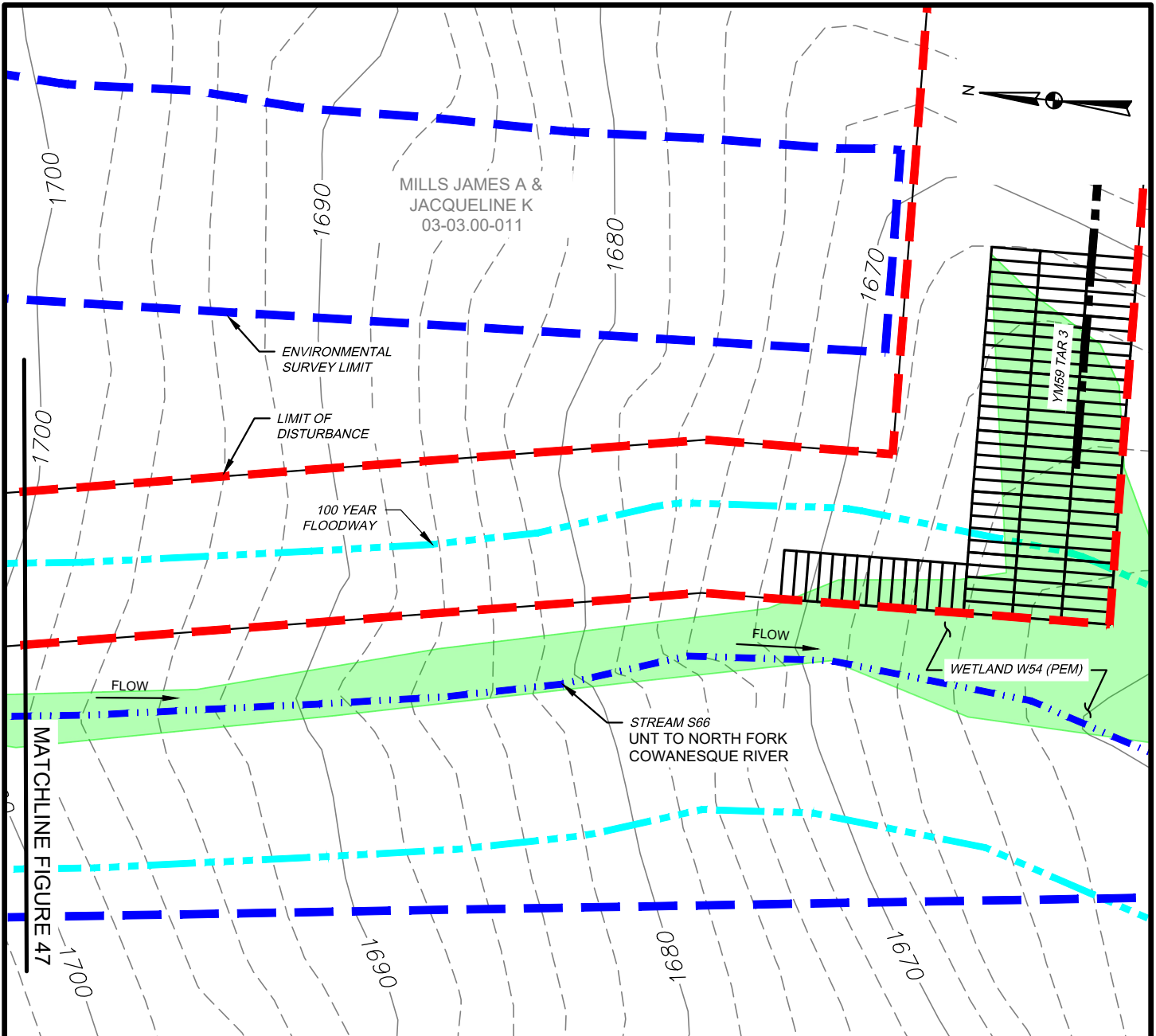
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SITE SPECIFICS  
YM59 PIPELINE  
BROOKFIELD TWP, TIOGA COUNTY  
SCALE: 1" = 50'

DATE: 11/01/2024  
PROJECT NO.: 212C-BF-00493  
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CHECKED BY: RD  
SHEET: 1 OF 2  
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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



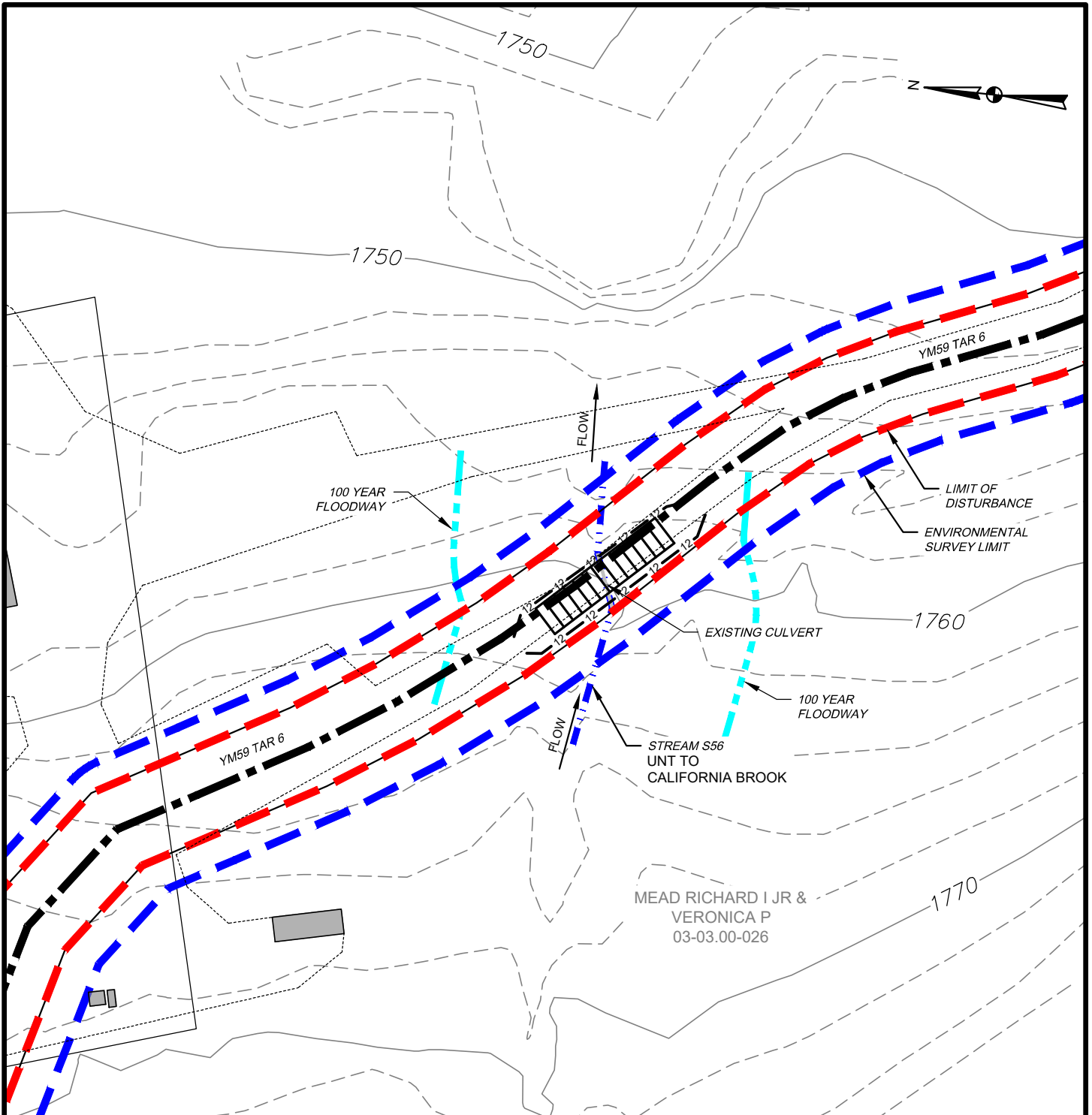
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**TIOGA PATHWAY PROJECT**  
**SITE SPECIFICS**  
**ACCESS ROADS (YM59 PIPELINE)**  
**BROOKFIELD TWP, TIOGA COUNTY**  
 SCALE: 1" = 50'

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<b>FIGURE 47.1</b>	



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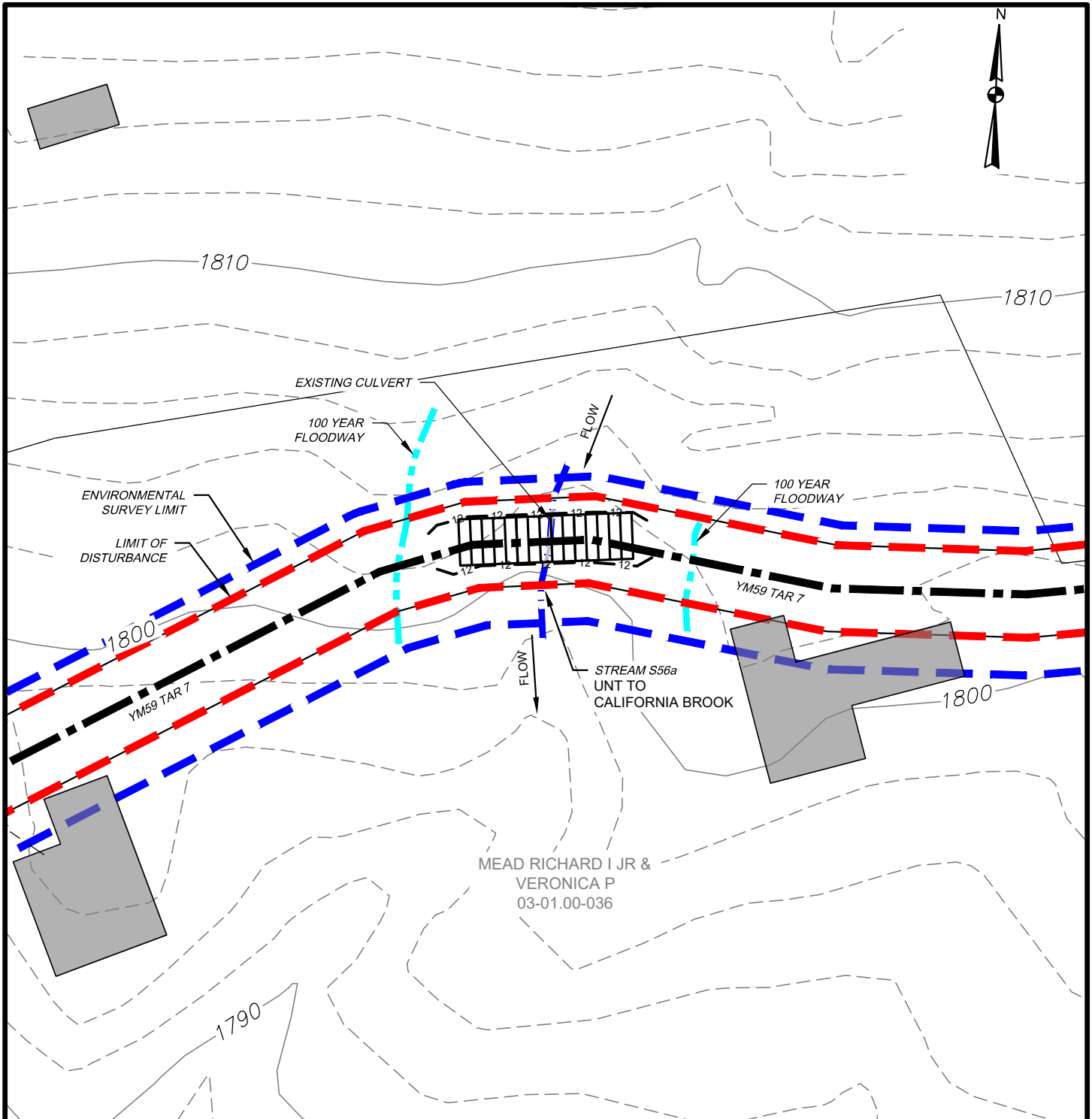
SITE SPECIFICS  
 ACCESS ROADS (YM59 PIPELINE)  
 BROOKFIELD TWP, TIOGA COUNTY

SCALE: 1" = 50'

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DRAWN BY:	BC / JZ
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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



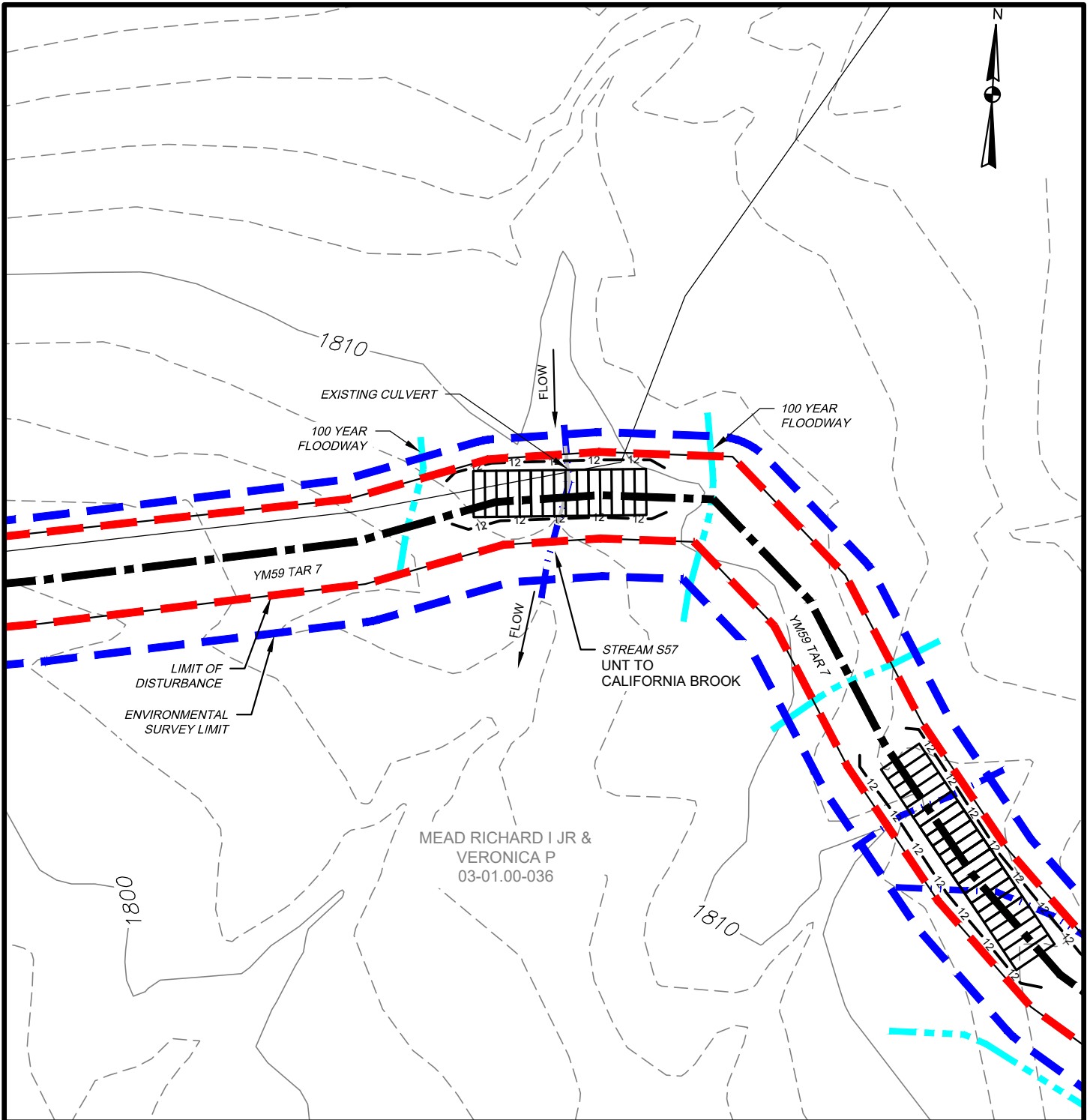
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 BROOKFIELD TWP, TIOGA COUNTY  
 SCALE: 1" = 50'

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<b>FIGURE 49</b>	



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



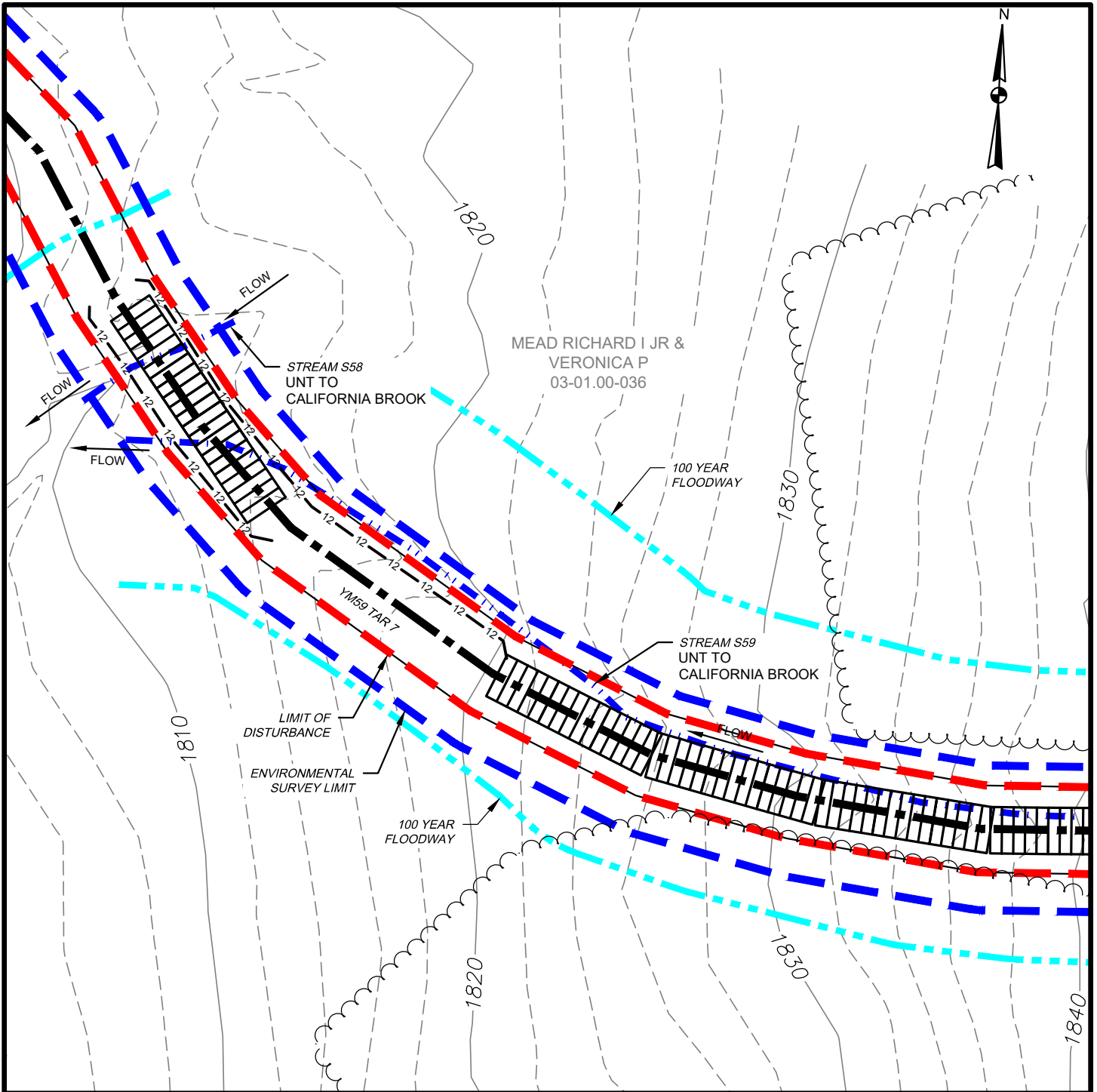
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BROOKFIELD TWP, TIOGA COUNTY  
SCALE: 1" = 50'

DATE:	11/01/2024
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<b>FIGURE 50</b>	



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



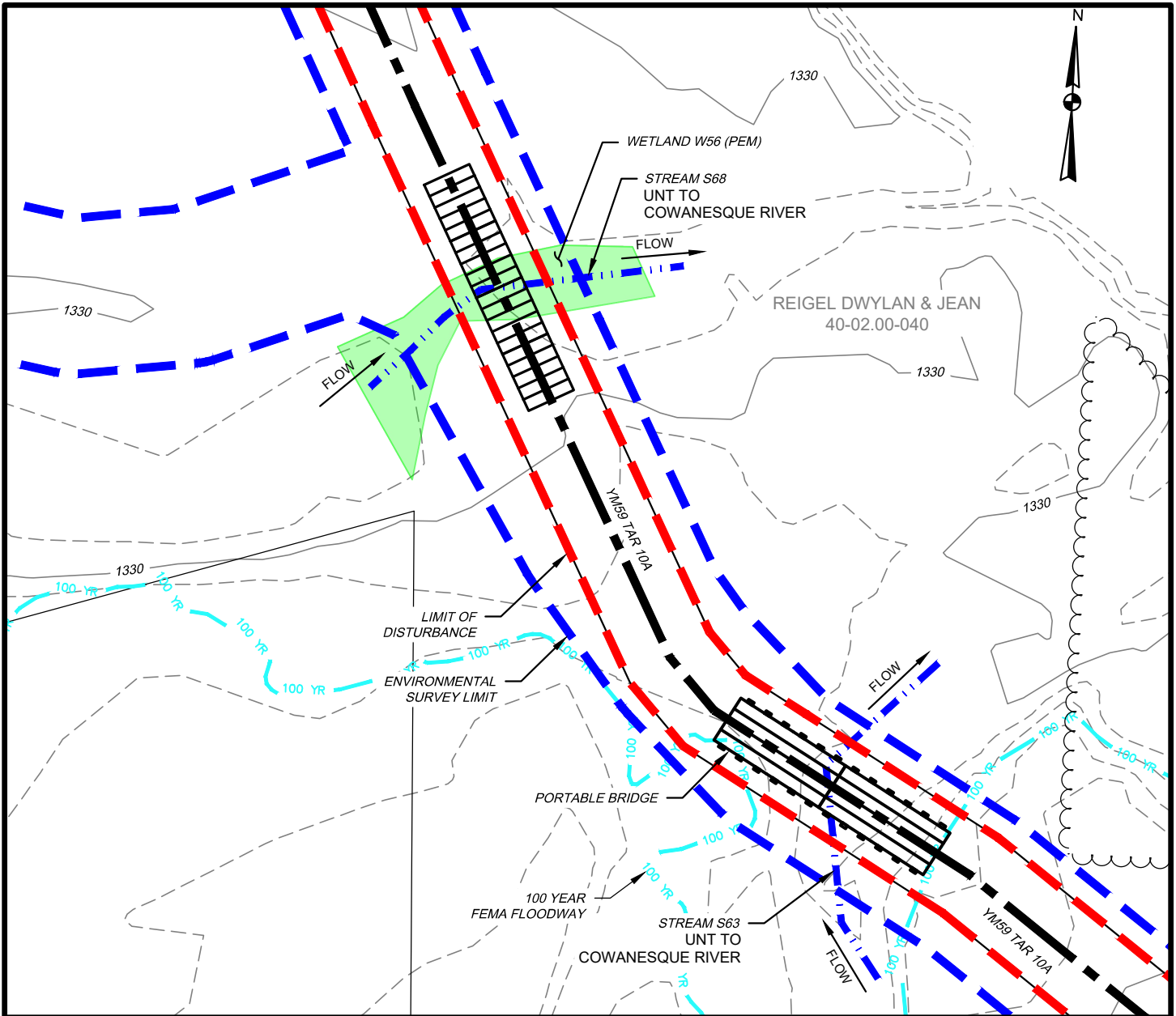
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SCALE: 1" = 50'

DATE:	11/01/2024
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<b>FIGURE 51</b>	



**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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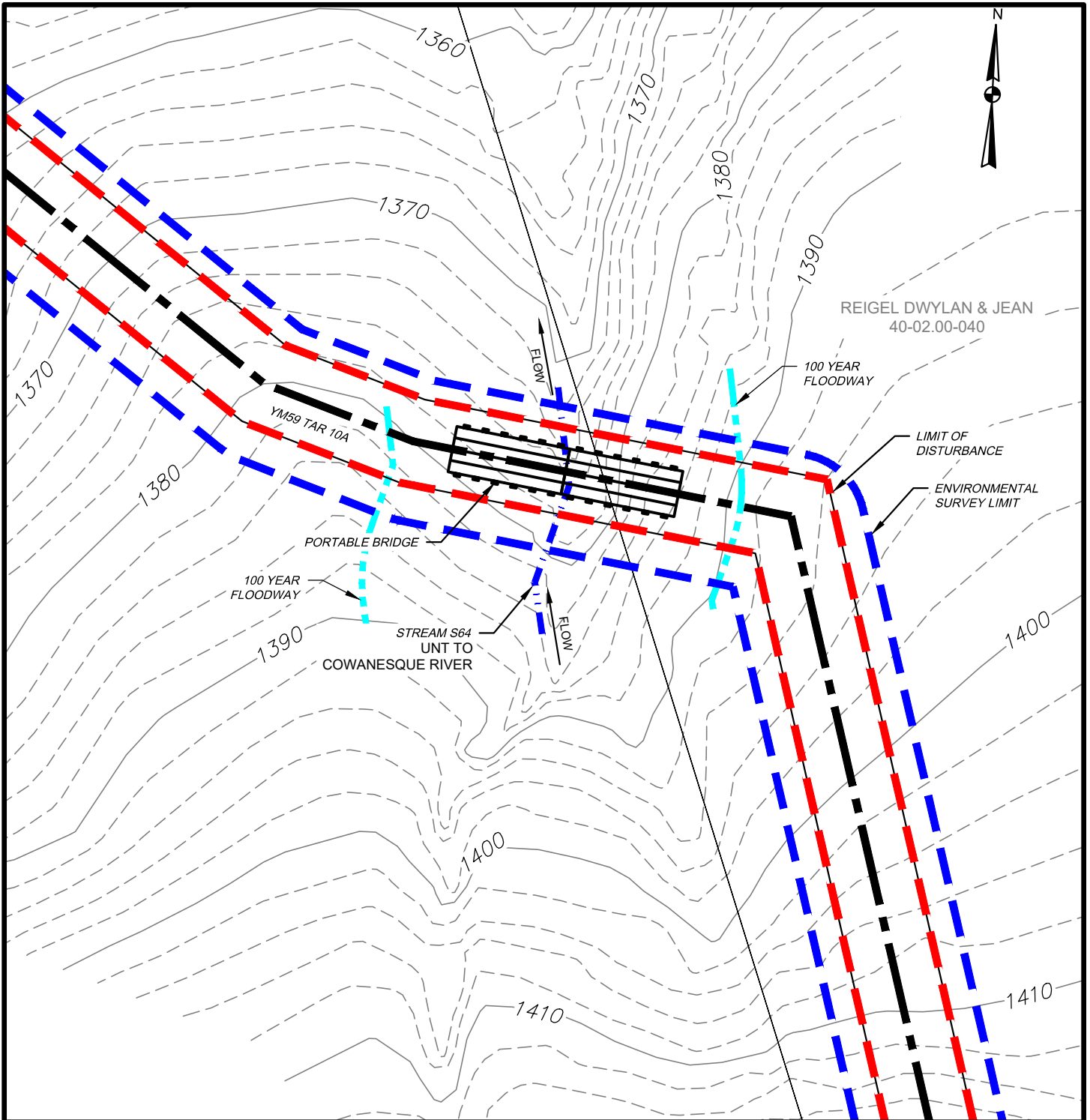
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SCALE: 1" = 50'

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**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



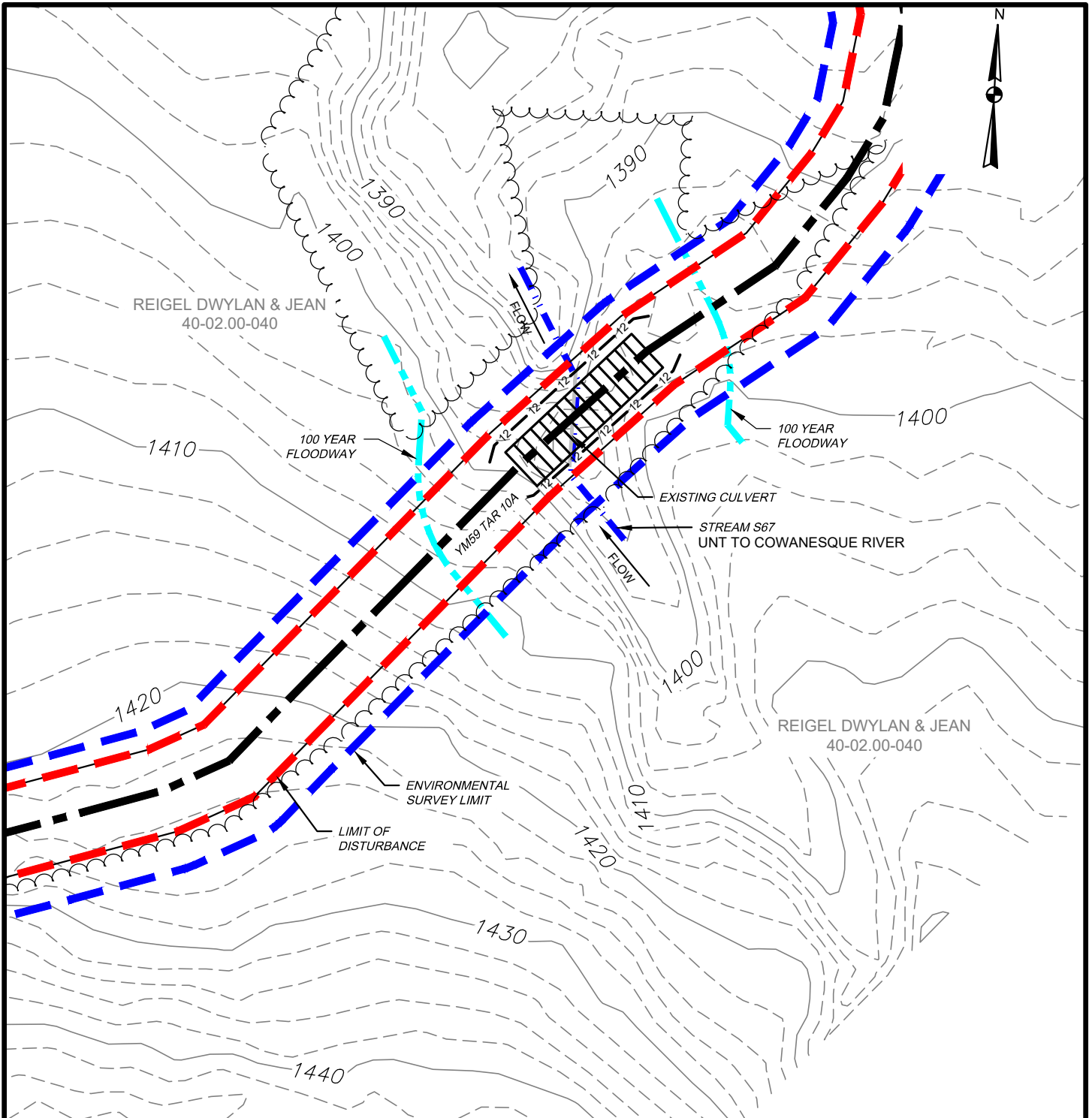
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 WESTFIELD TWP, TIOGA COUNTY  
 SCALE: 1" = 50'

DATE:	11/01/2024
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<b>FIGURE 53</b>	



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



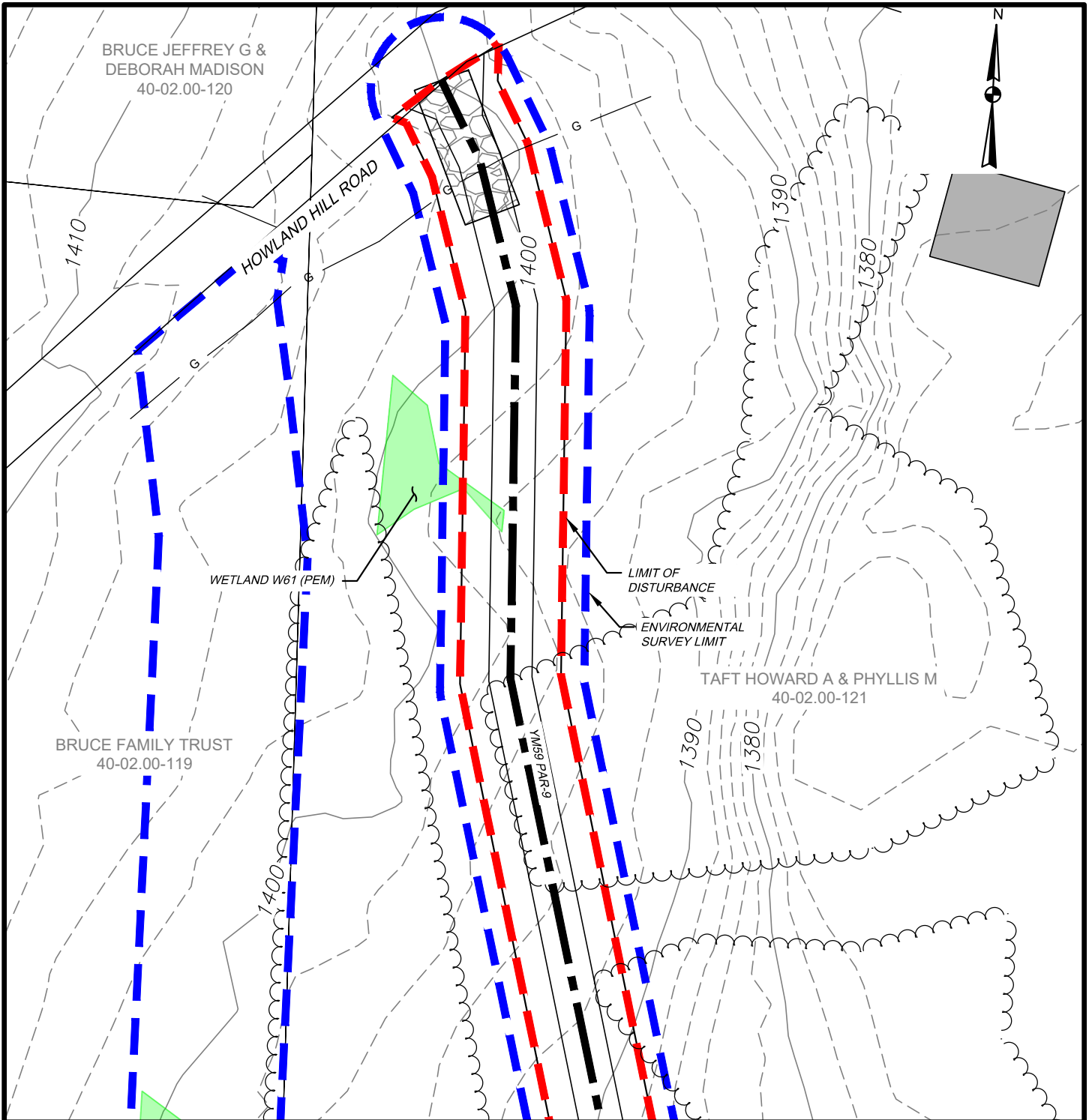
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SITE SPECIFICS  
ACCESS ROADS (YM59 PIPELINE)  
WESTFIELD TWP, TIOGA COUNTY  
SCALE: 1" = 50'

DATE:	11/01/2024
PROJECT NO.:	212C-BF-00493
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<b>FIGURE 54</b>	



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



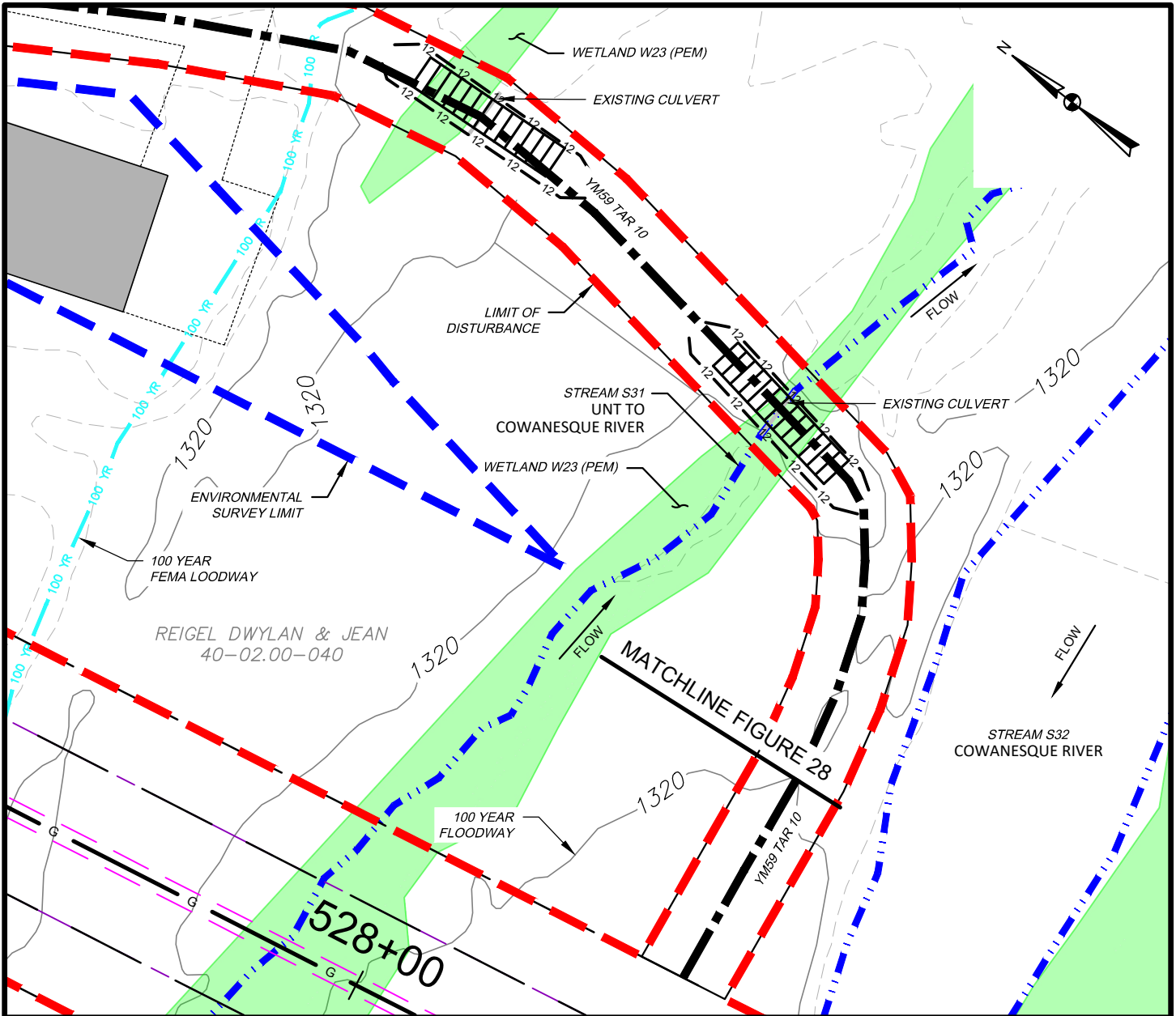
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 WESTFIELD TWP, TIOGA COUNTY  
 SCALE: 1" = 50'

DATE:	11/01/2024
PROJECT NO.:	212C-BF-00493
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<b>FIGURE 55</b>	



**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



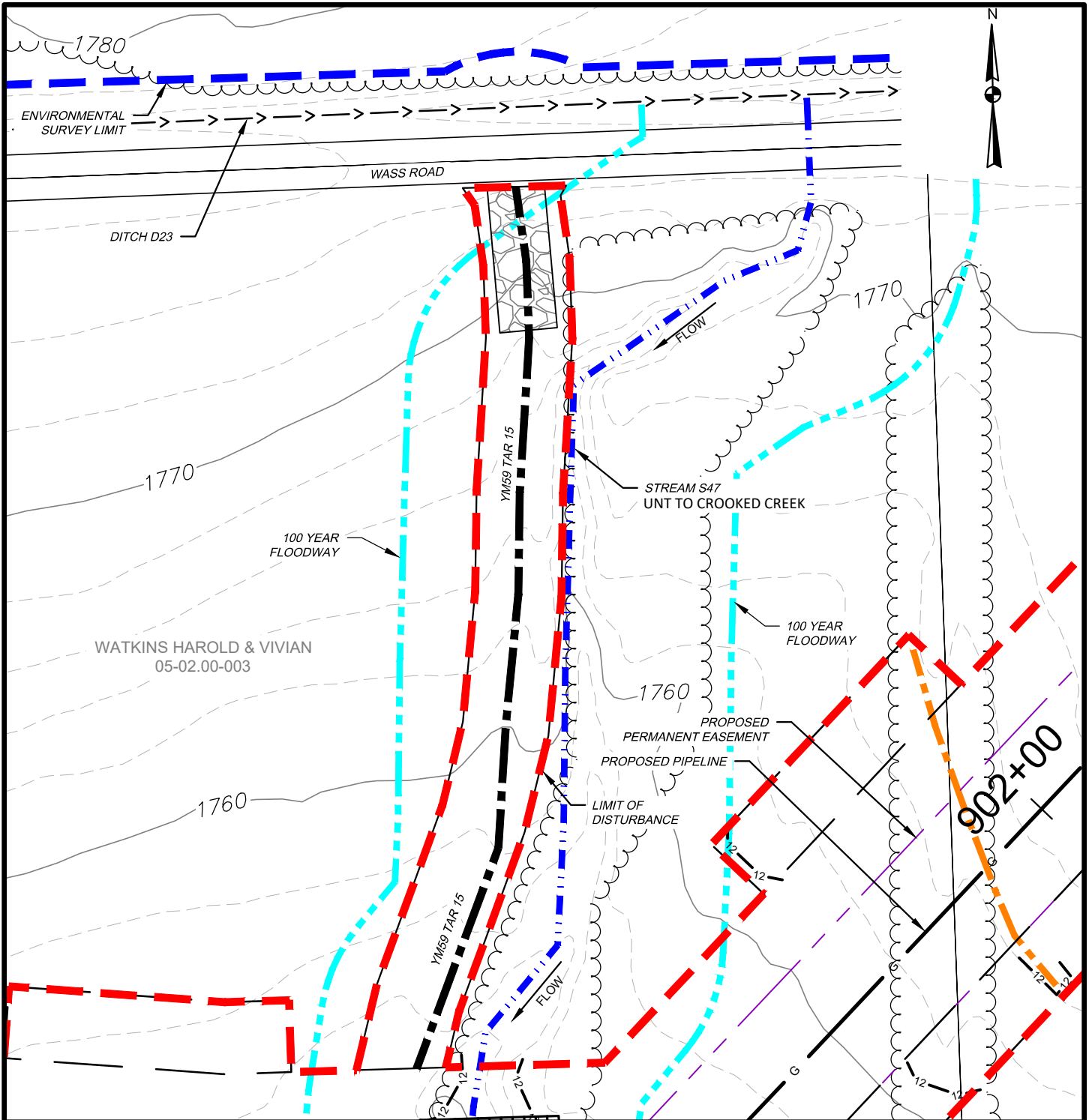
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SITE SPECIFICS  
ACCESS ROADS (YM59 PIPELINE)  
WESTFIELD TWP, TIOGA COUNTY  
SCALE: 1" = 50'

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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<b>FIGURE 56</b>	



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



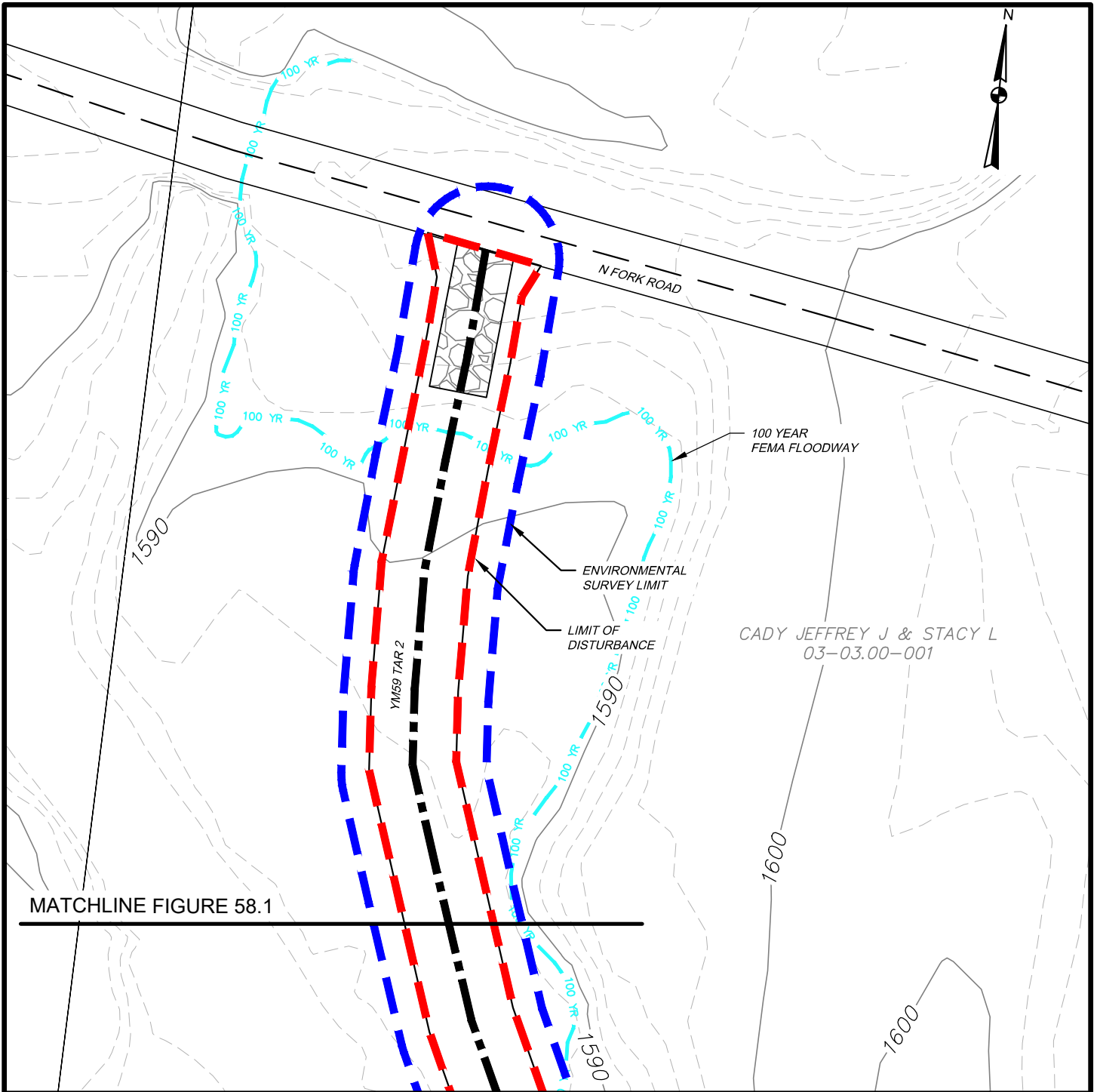
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NATIONAL FUEL GAS SUPPLY CORPORATION  
TIOGA PATHWAY PROJECT  
SITE SPECIFICS  
ACCESS ROADS (YM59 PIPELINE)  
CHATHAM TWP, TIOGA COUNTY  
SCALE: 1" = 50'

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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<b>FIGURE 57</b>	



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 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



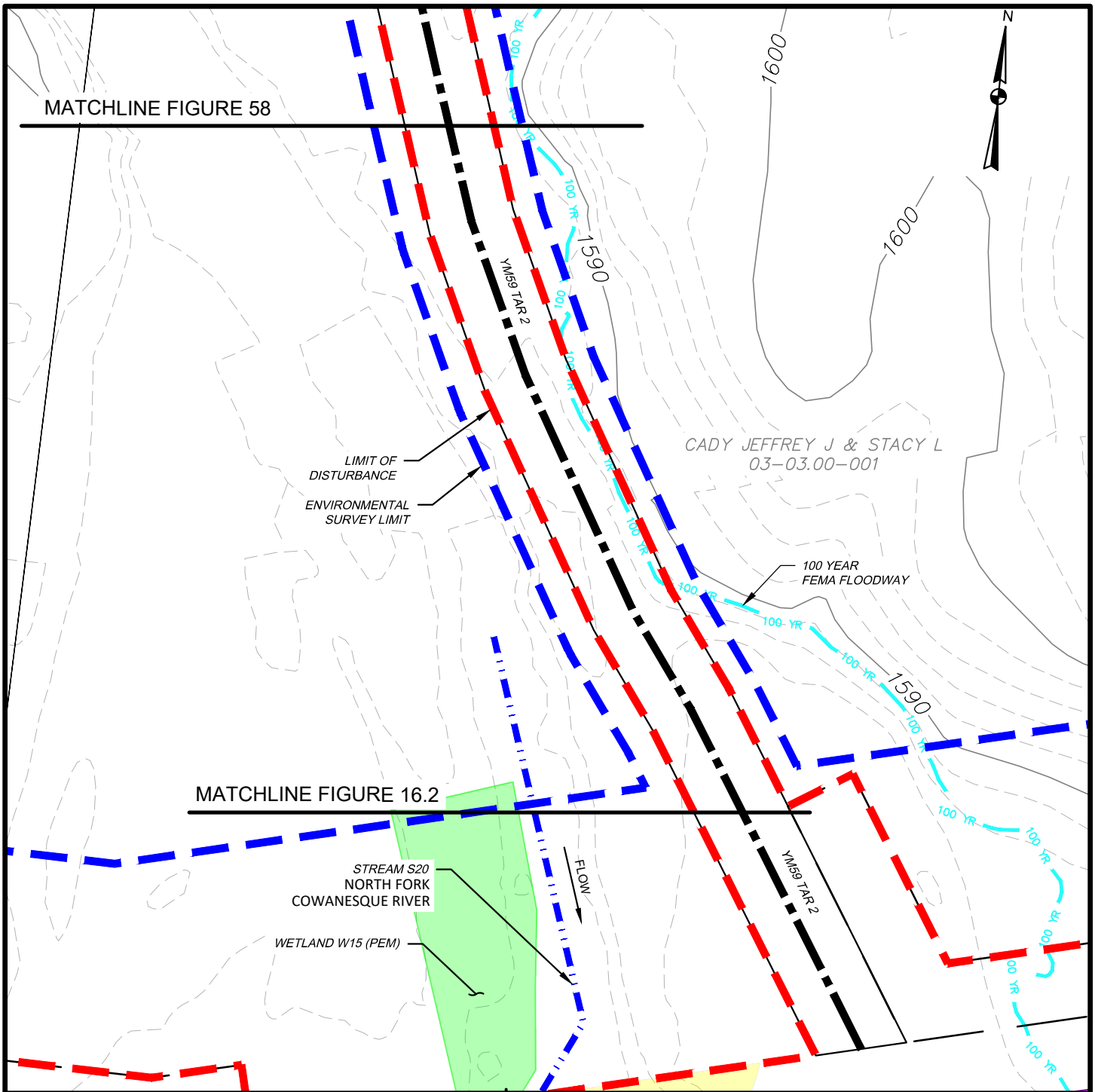
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TIOGA PATHWAY PROJECT  
SITE SPECIFICS  
ACCESS ROADS (YM59 PIPELINE)  
BROOKFIELD TWP, TIOGA COUNTY  
SCALE: 1" = 50'

DATE:	11/01/2024
PROJECT NO.:	212C-BF-00493
DESIGNED BY:	BC
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CHECKED BY:	RD
SHEET:	1 OF 2
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<b>FIGURE 58</b>	



**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 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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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
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CHECKED BY:	RD
SHEET:	2 OF 2
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