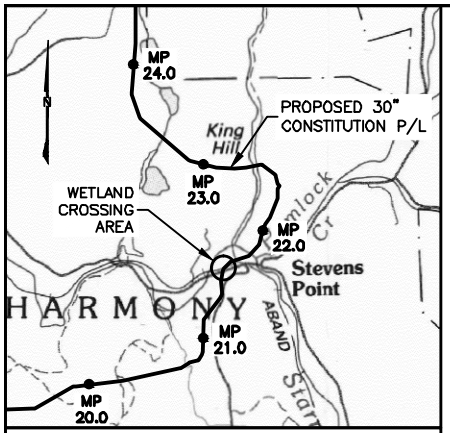
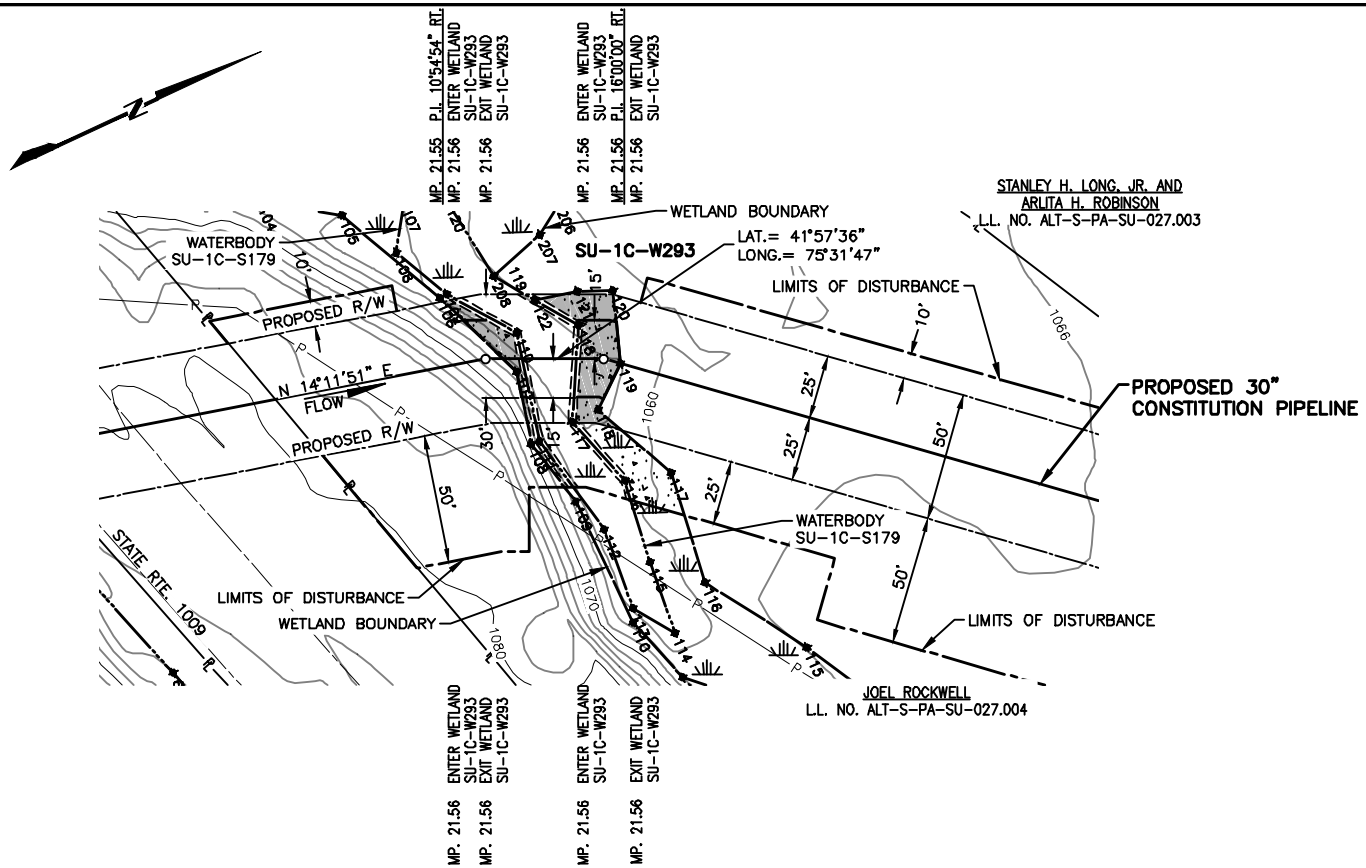


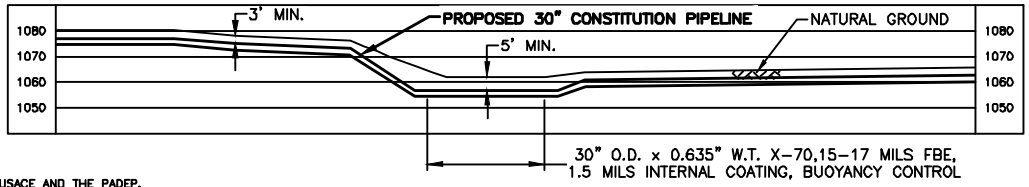
VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET





PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			Temporary ROW			50' Permanent ROW				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1C-W293	PFO	25	0.04			0.02			N/A	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-22	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-03-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-26-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	11-01-13	GIE	ISSUE FOR USE	1110415		

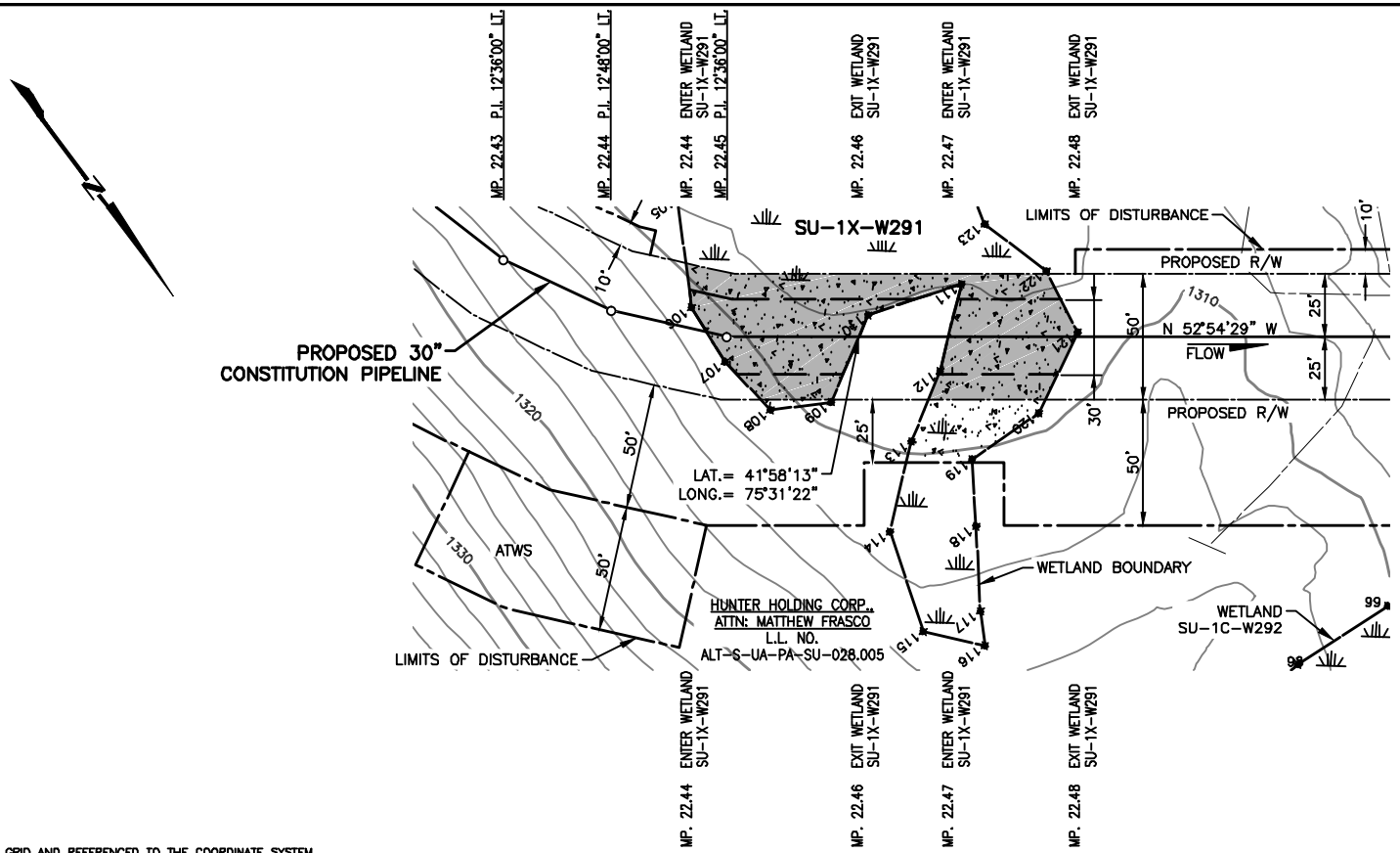
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

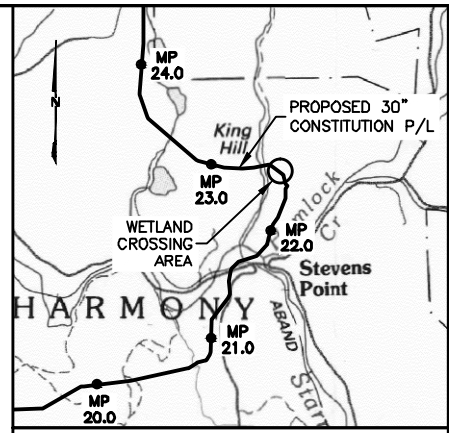
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1C-W293 @ M.P. 21.56
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-02-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-70/SU-1C-W293-1-0	SHEET 65 OF 362
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
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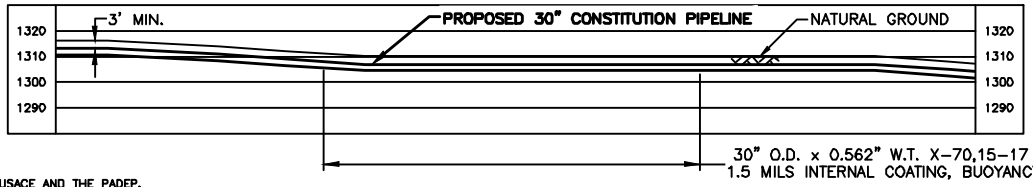
Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			Temporary ROW			50' Permanent ROW				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1X-W291	PFO	112	0.02			0.13			N/A	Conventional



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-23	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-04-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
0	10-31-13	GIE	ISSUE FOR USE			

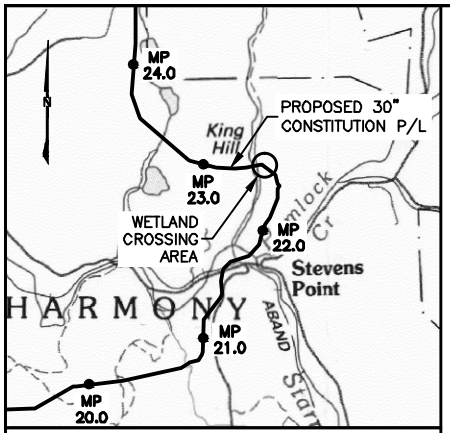
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1X-W291 @ M.P. 22.44
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-04-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-70/SU-1X-W291-1-0	SHEET 66 OF 362
WO: 1110415			

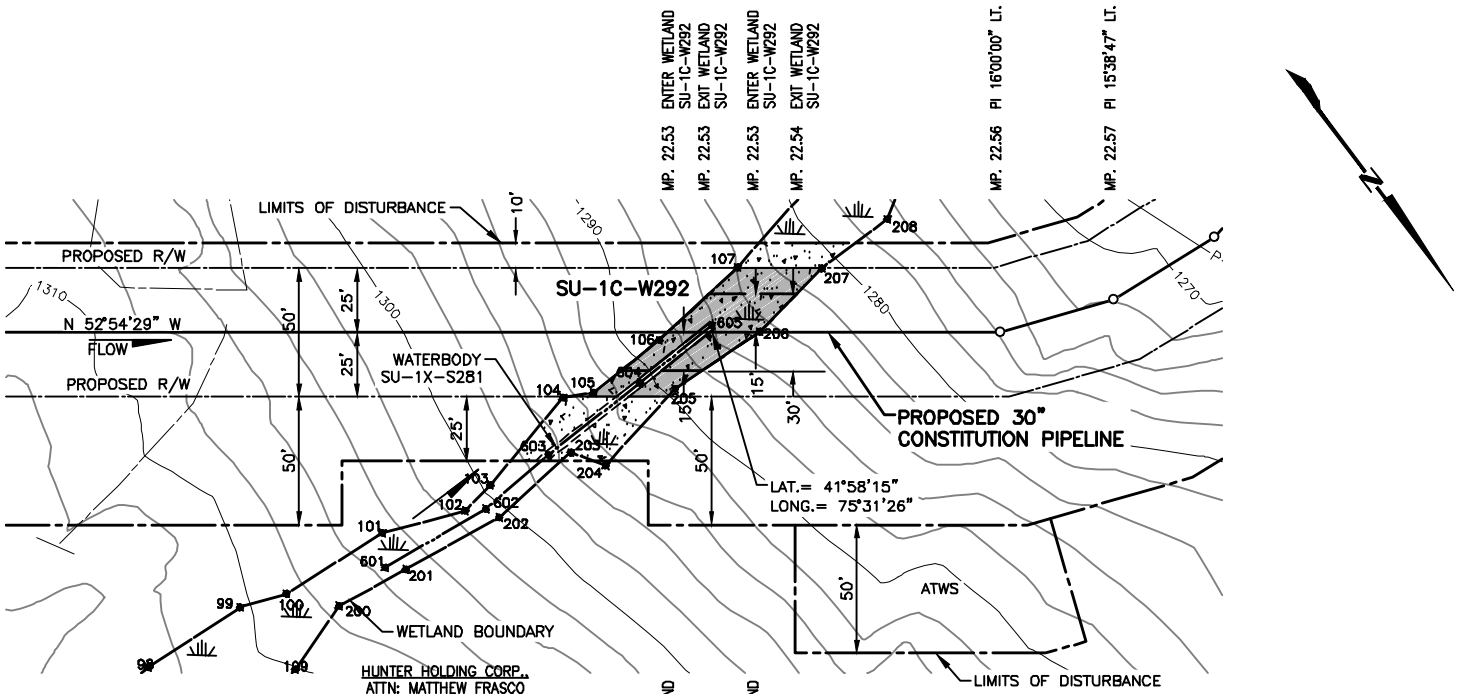


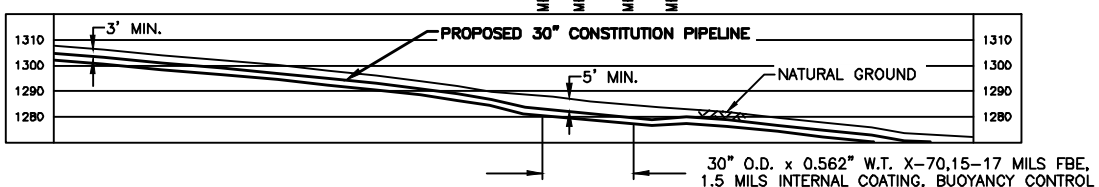
VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET





PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			Temporary ROW			50' Permanent ROW				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1C-W292	PFO	31	0.03			0.04			N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-23	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-04-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

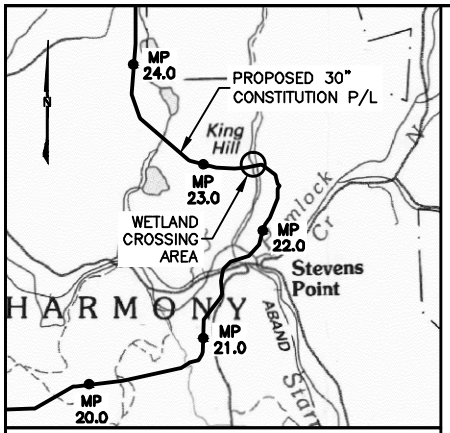
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1C-W292 @ M.P. 22.53
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-04-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-70/SU-1C-W292-1-0	SHEET 67 OF 362
W.O. 1110415			

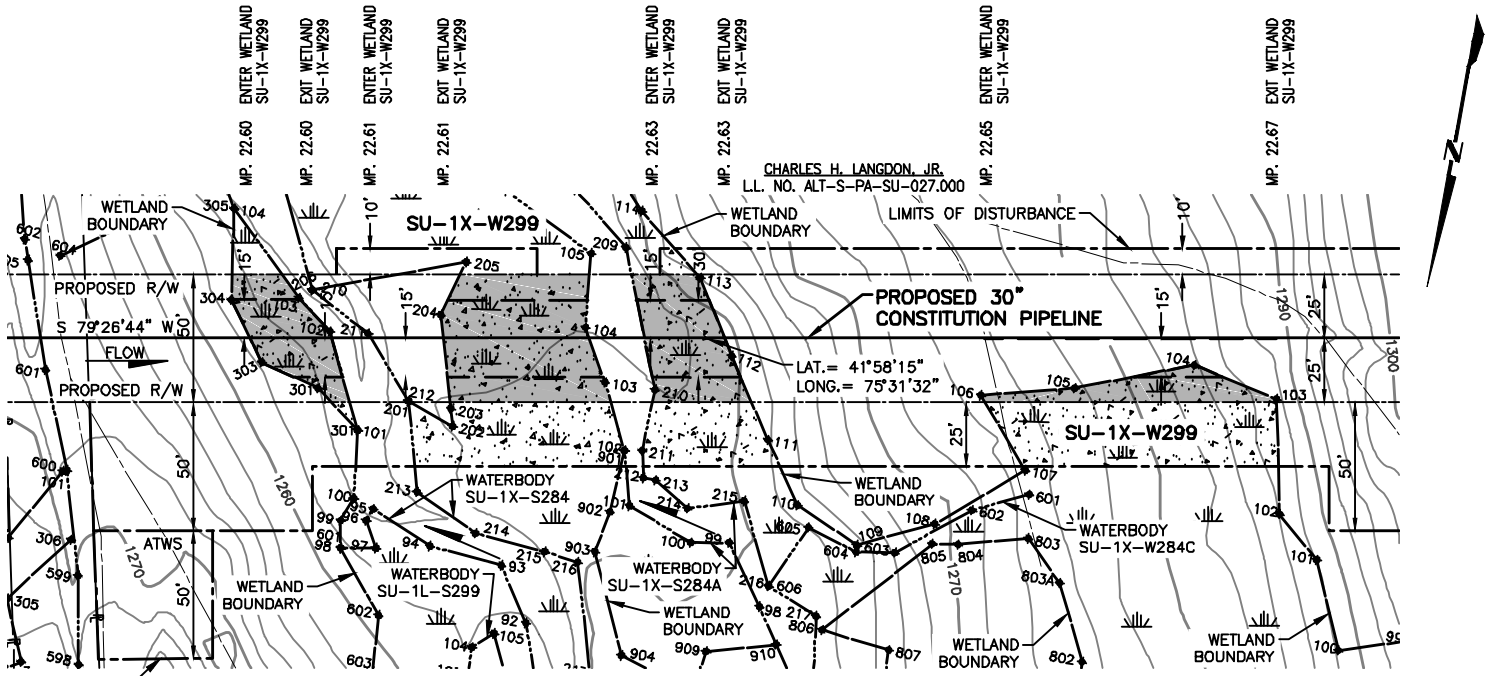


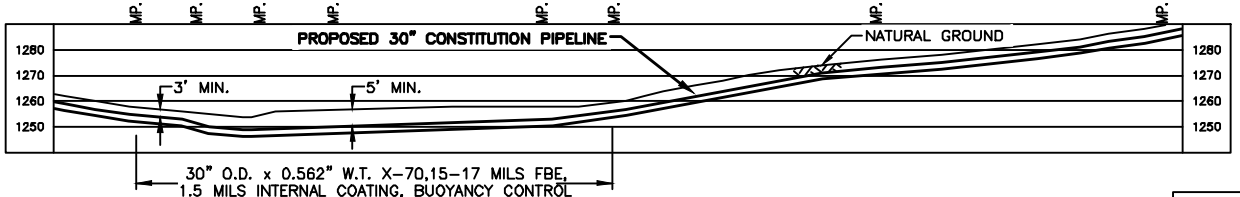
VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET





PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			Temporary ROW			50' Permanent ROW				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1X-W299	PFO	120	0.15			0.16			EV	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-23	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-07-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-20-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUED FOR USE	1110415		

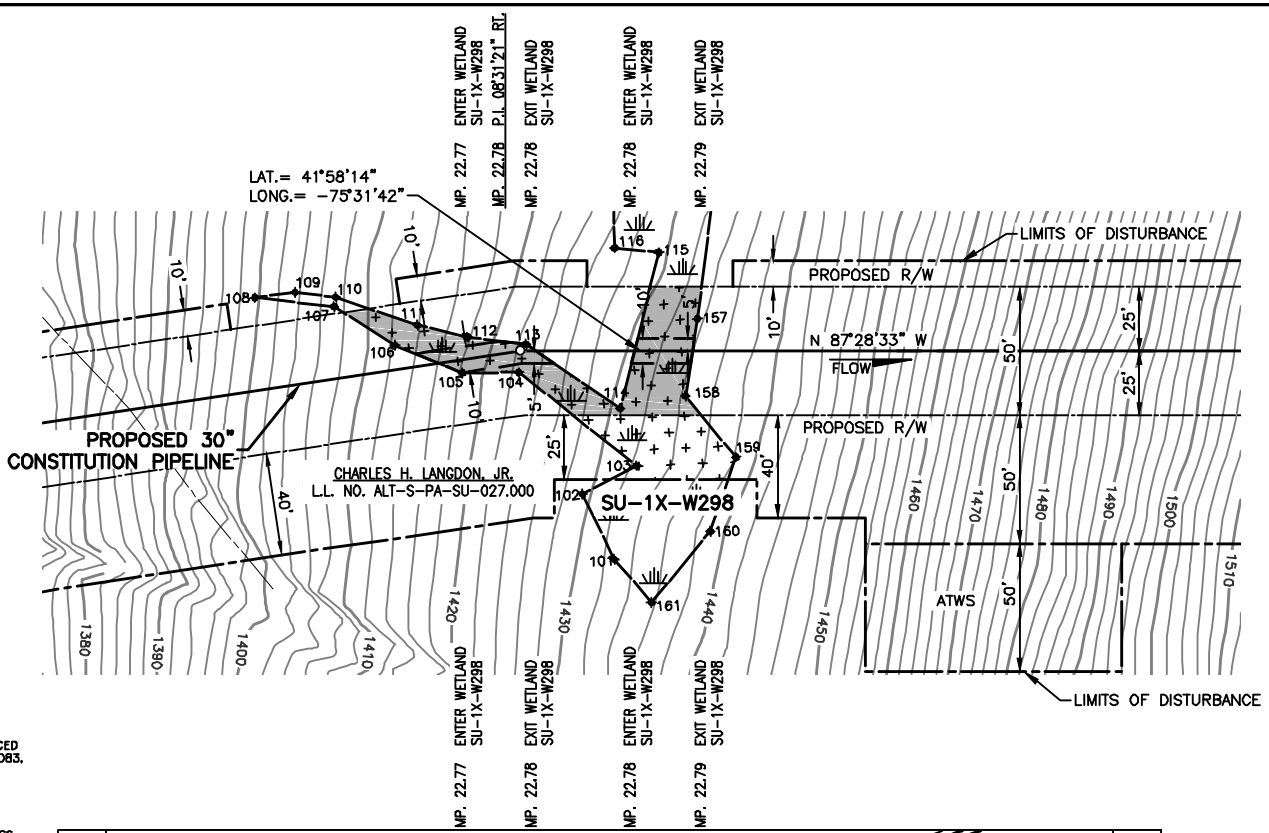
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

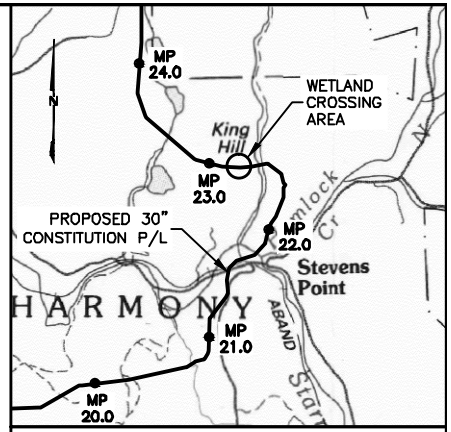
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1X-W299 @ M.P. 22.60
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-07-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-70/SU-1X-W299-1-0	SHEET 68 OF 362
WO: 1110415			



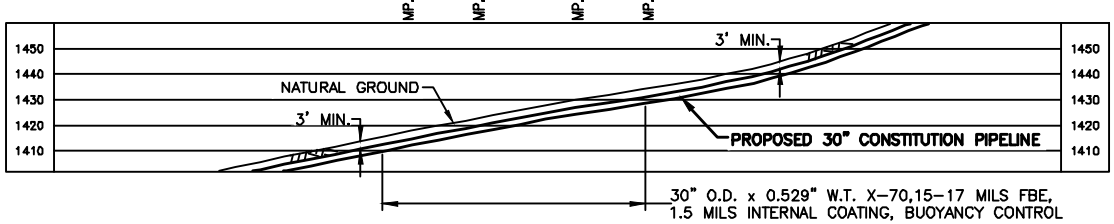


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			Temporary ROW			50' Permanent ROW				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1X-W298	PEM	61			0.03			0.05	N/A	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-23	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-08-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-25-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

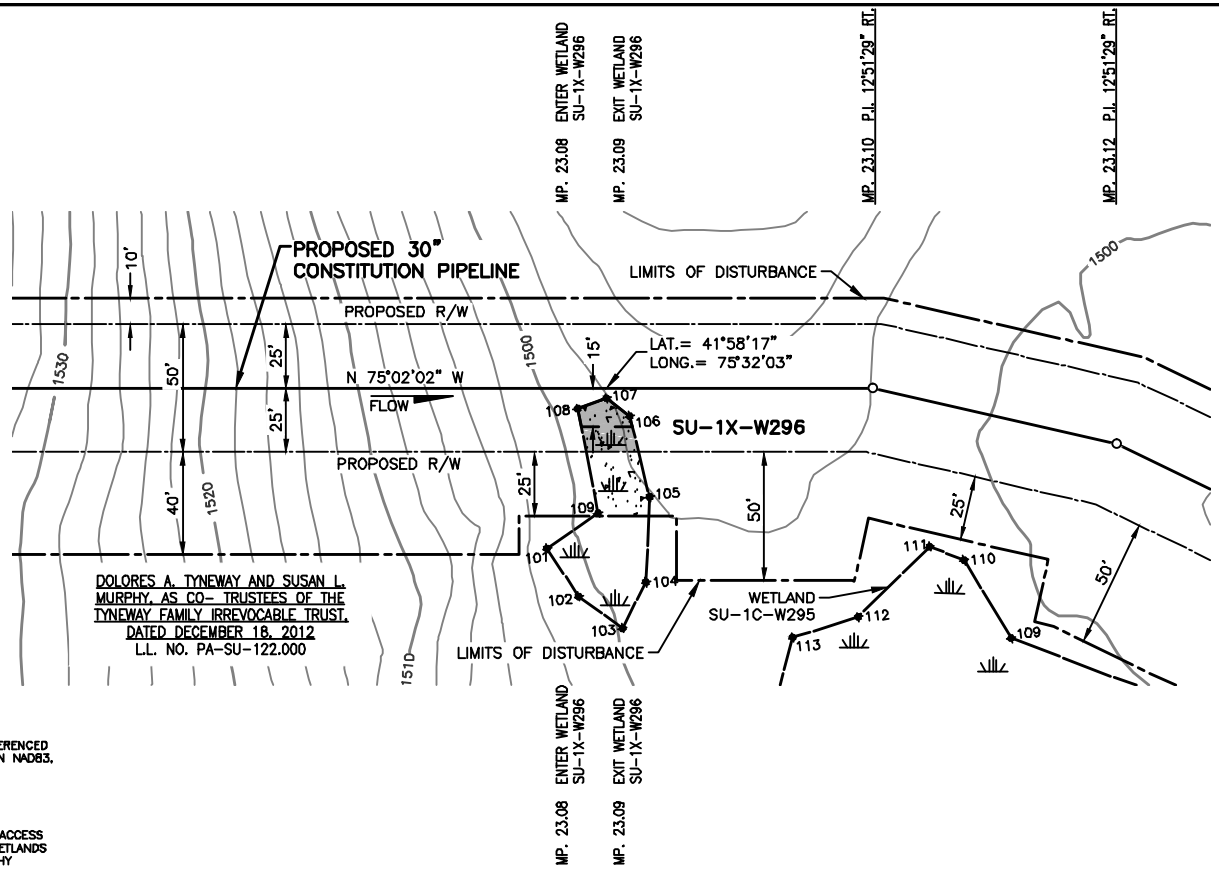
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

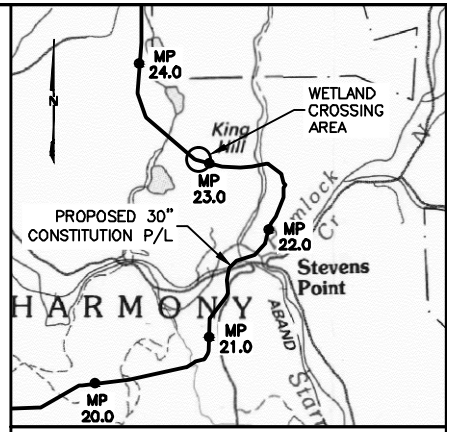
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1X-W298 @ M.P. 22.77
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-08-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-70/SU-1X-W298-1-0	SHEET 69 OF 362
W.O: 1110415			





VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
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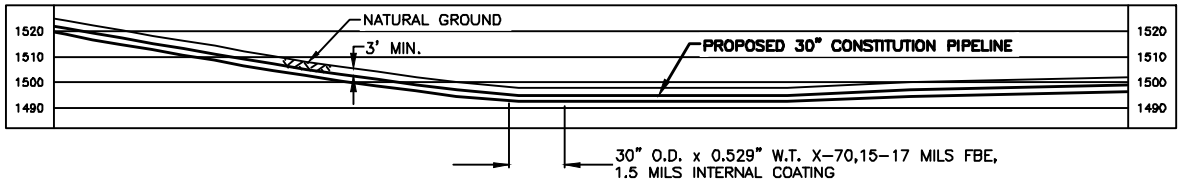


PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			Temporary ROW			50' Permanent ROW				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1X-W296	PFO	0	0.01			0.01			N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-24	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-09-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-23-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	10-28-13	GIE	ISSUE FOR USE	1110415		

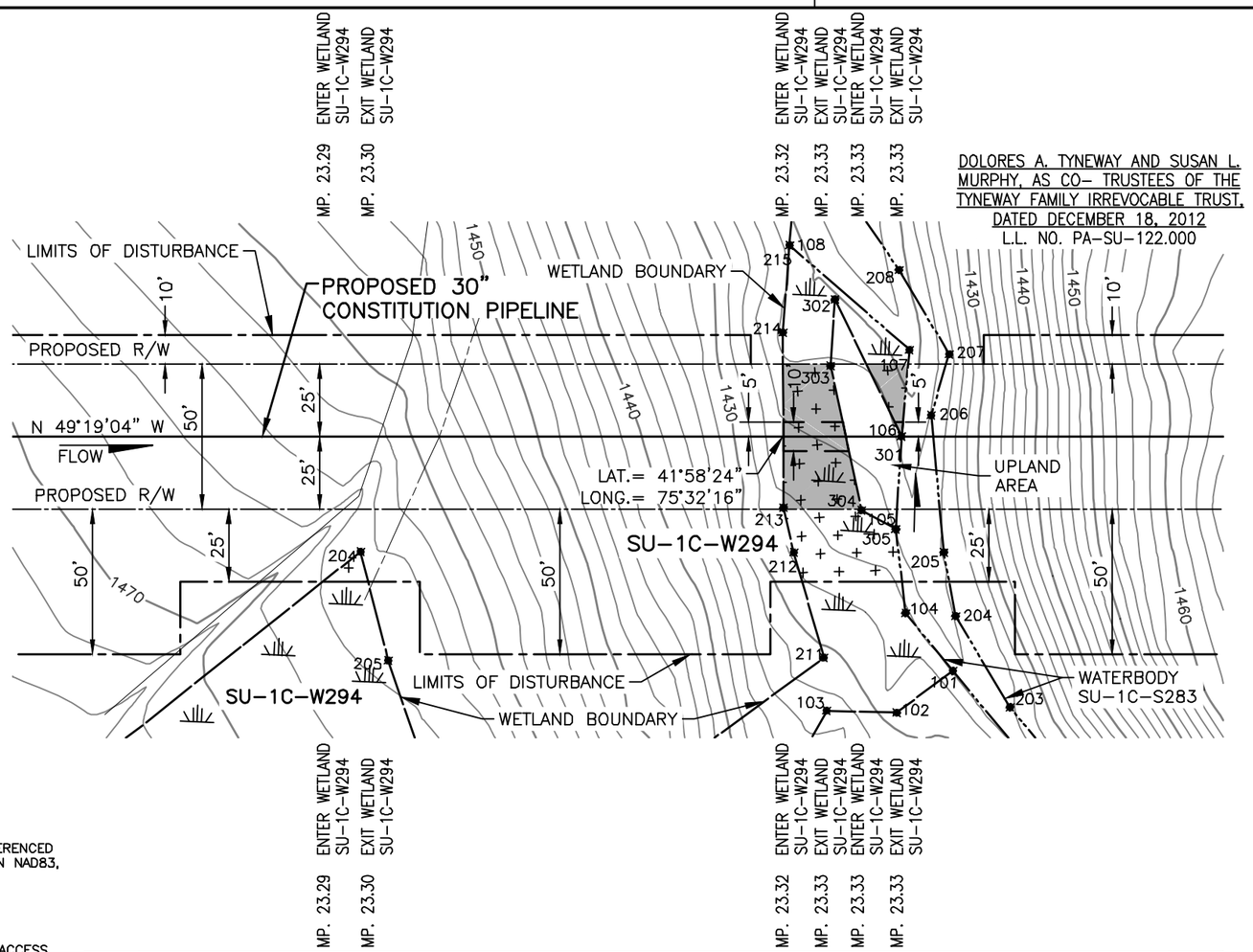
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

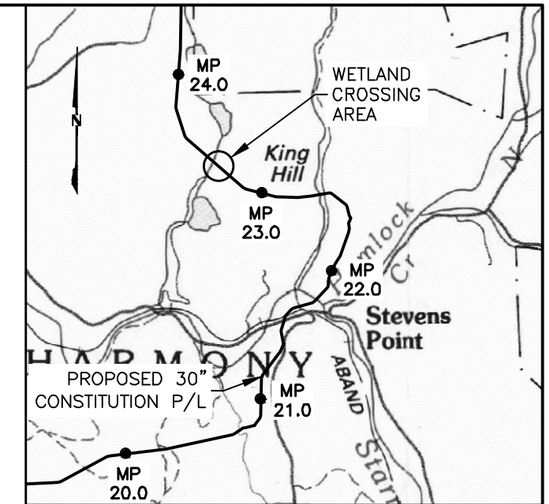
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1X-W296 @ M.P. 23.08
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-09-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-70/SU-1X-W296-1-0	SHEET 70 OF 362
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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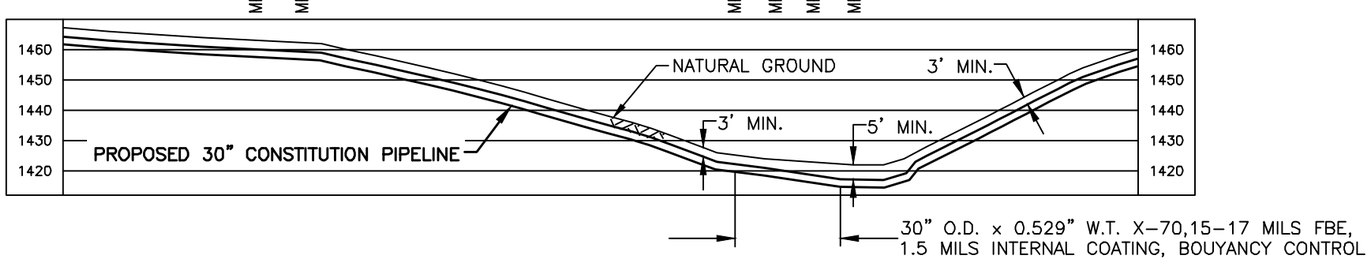
Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			Temporary ROW			50' Permanent ROW				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1C-W294	PEM	22			0.02			0.04	N/A	Conventional



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-24	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-09-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-28-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

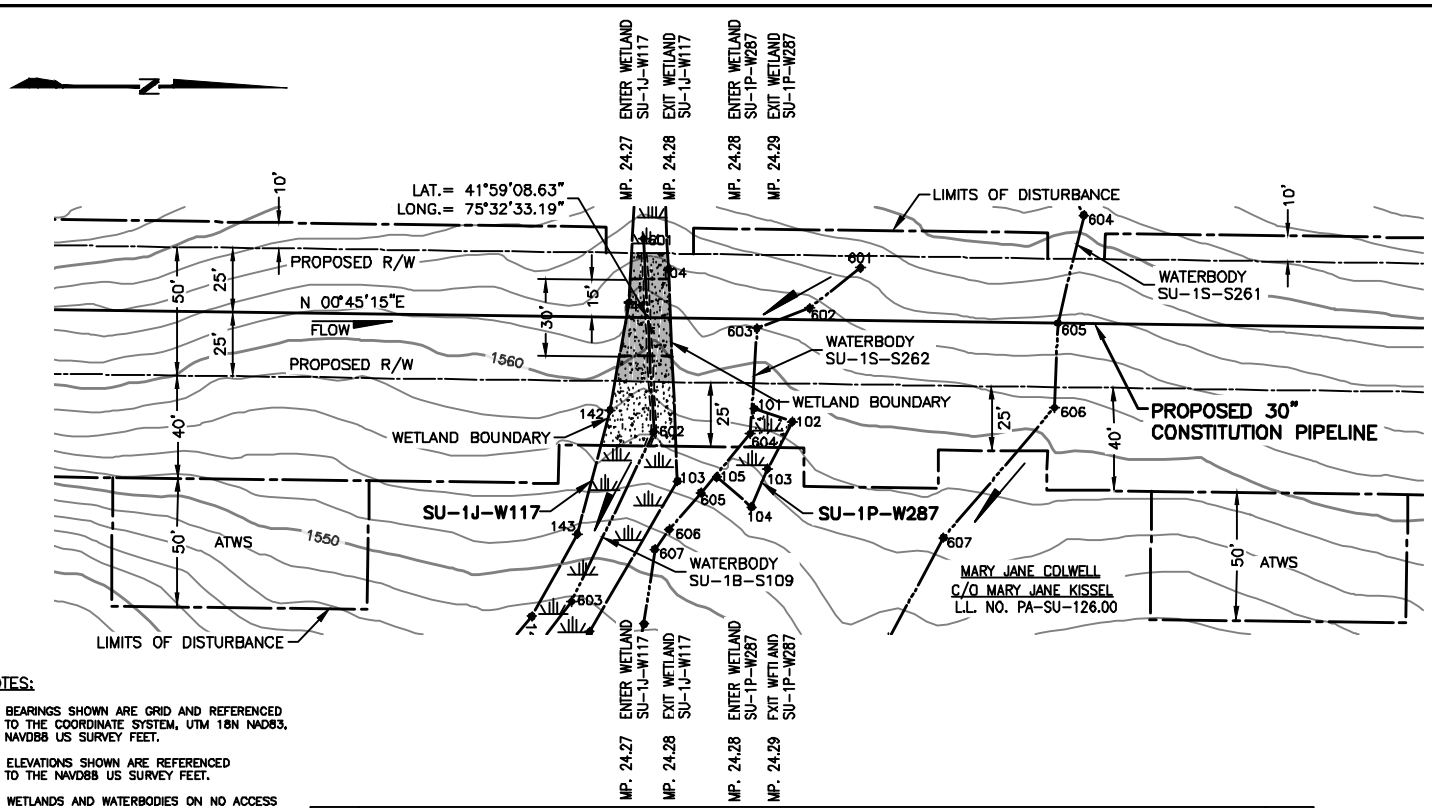
APPLICATION NO.: NAN-2012-00449-UBR

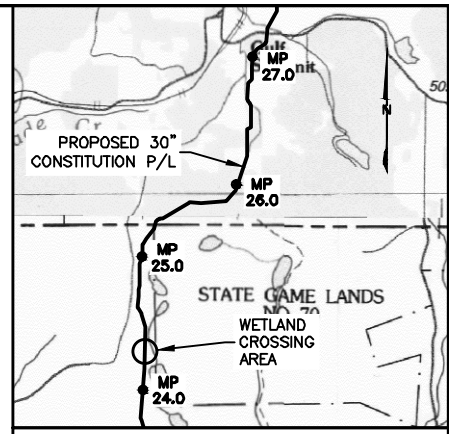
CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1C-W294 @ M.P. 23.29
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-09-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-70/SU-1C-W294-1-0	SHEET 71 OF 362
WO: 1110415			

H:\dc\1374\Engineering & Technical\US_Pipeline\Mapping\Dwgs\Permit Drawings\USACE PERMITS\1374-Permit Dwgs From TBM\SU-1C-W294.dwg Plotted on Jun 26, 2014 - 1:52pm by lfiguerosa



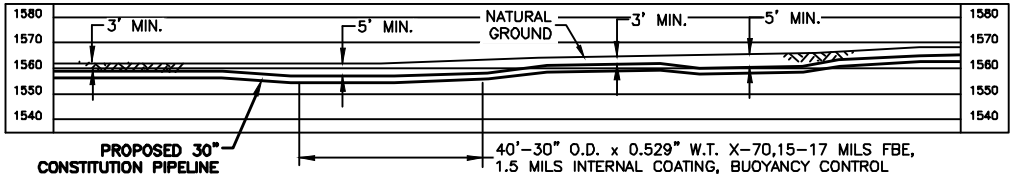


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			Temporary ROW			50' Permanent ROW				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1J-W117	PFO	15	0.01			0.02			N/A	Conventional
SU-1P-W287	PFO	0	0.00						N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-25	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-12-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-10-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-20-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-28-13	GIE	ISSUE FOR USE	1110415		

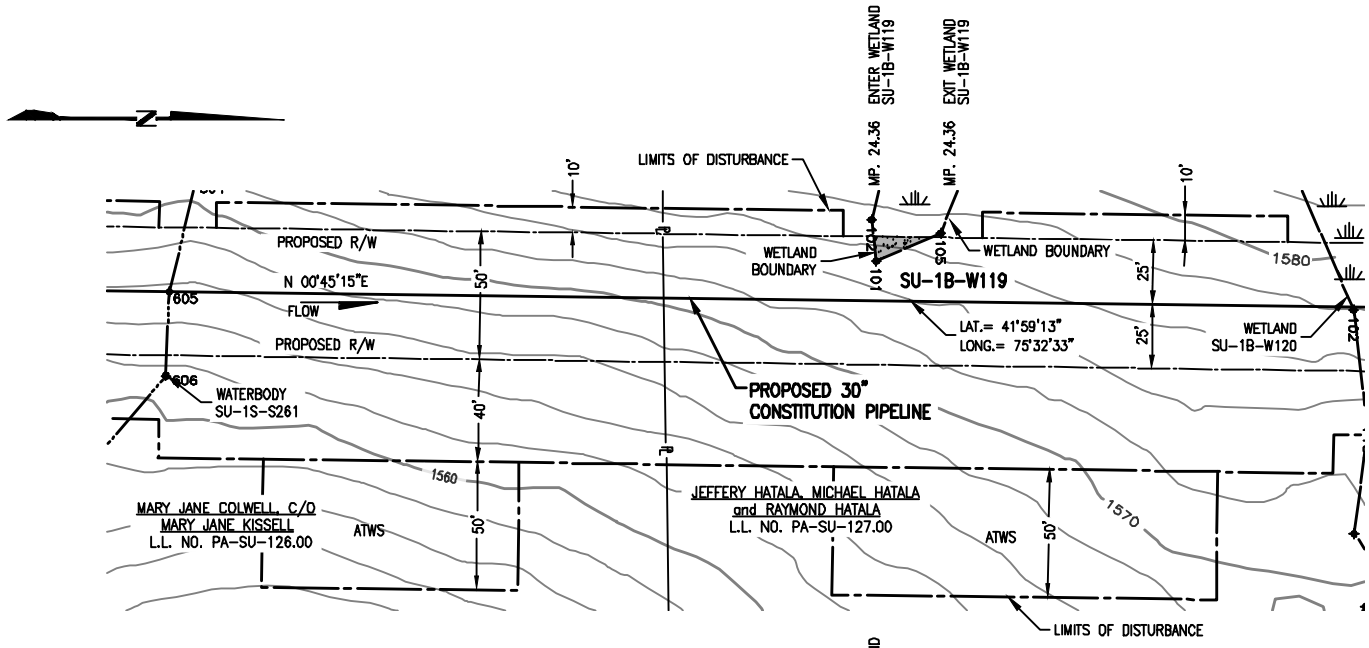
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

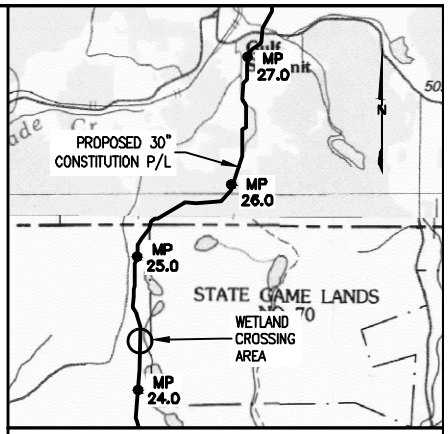
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1J-W117 & SU-1P-W287 @ M.P. 24.27
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-17-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-70/SU-1J-W117-1-4	SHEET 72 OF 362
W.O: 1110415			





VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET

NOTES:

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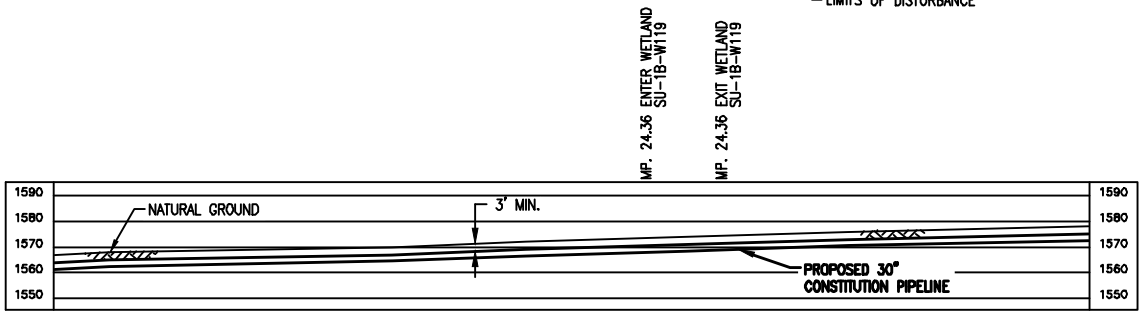


30" O.D. x 0.529" W.T. X-70,15-17 MILS FBE,
1.5 MILS INTERNAL COATING

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			Temporary ROW			50' Permanent ROW				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1B-W119	PFO	0				0.003			N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-25	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	07-23-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	07-27-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-06-13	GIE	ISSUE FOR USE	1110415		
1	09-12-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
2	10-04-13	GIE	ISSUE FOR USE	1110415		

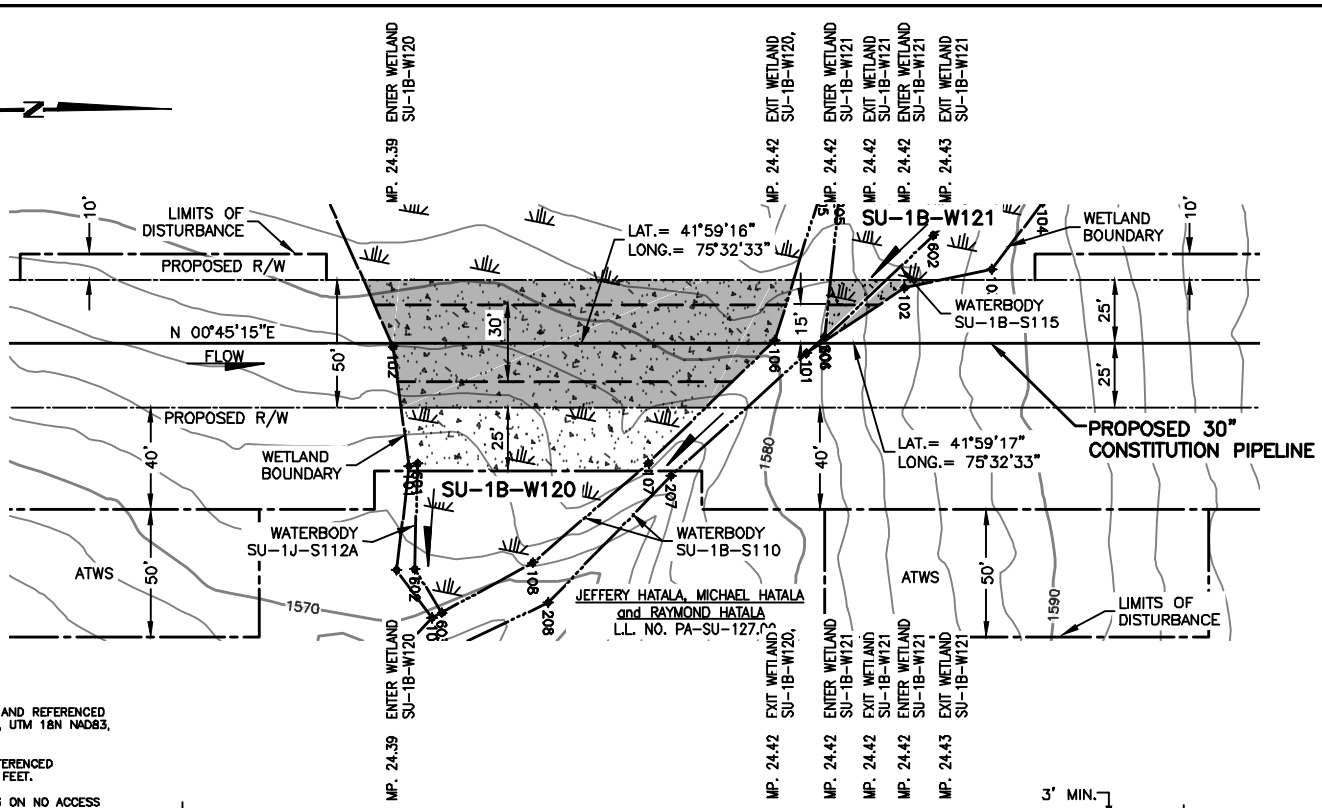
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

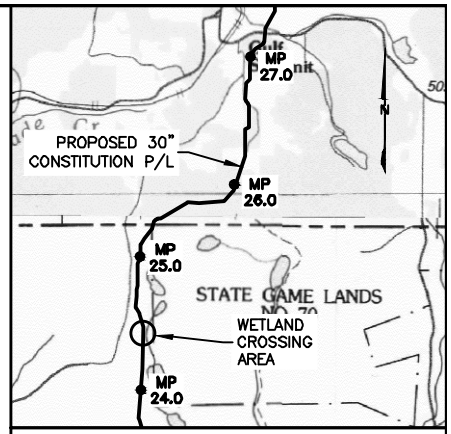
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1B-W119 @ M.P. 24.36
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-17-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-70/SU-1B-W119-1-2	SHEET 73 OF 362
WO: 1110415			



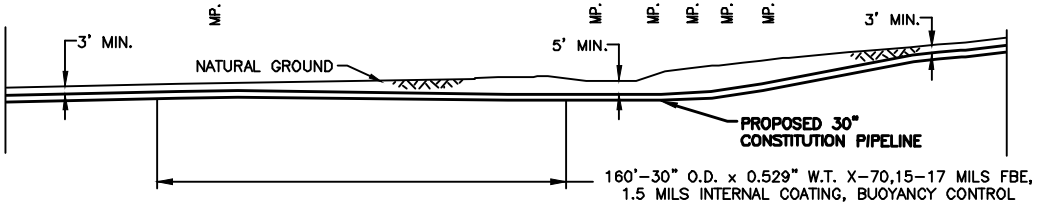


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET



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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			Temporary ROW			50' Permanent ROW				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1B-W120	PFO	148	0.060			0.168			N/A	Conventional
SU-1B-W121	PFO	2				0.008			N/A	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-25	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	07-23-13	GIE	APPROVED	1110415		
1	07-27-13	GIE	REVISED - ISSUE FOR APPROVAL	1110415		
2	08-17-13	GIE	ISSUE FOR APPROVAL	1110415		
3	09-16-17	GIE	REVISED - ISSUE FOR APPROVAL	1110415		
4	10-04-13	GIE	ISSUE FOR USE	1110415		

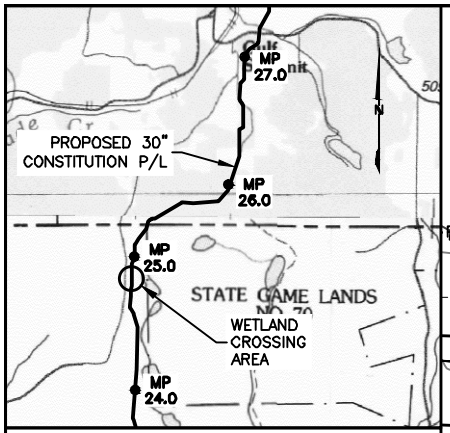
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSINGS SU-1B-W120 AND
SU-1B-W121 @ M.P. 24.39
HARMONY TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-17-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-70/SU-1B-W120-1-4	SHEET 74 OF 362
W.O. 1110415			

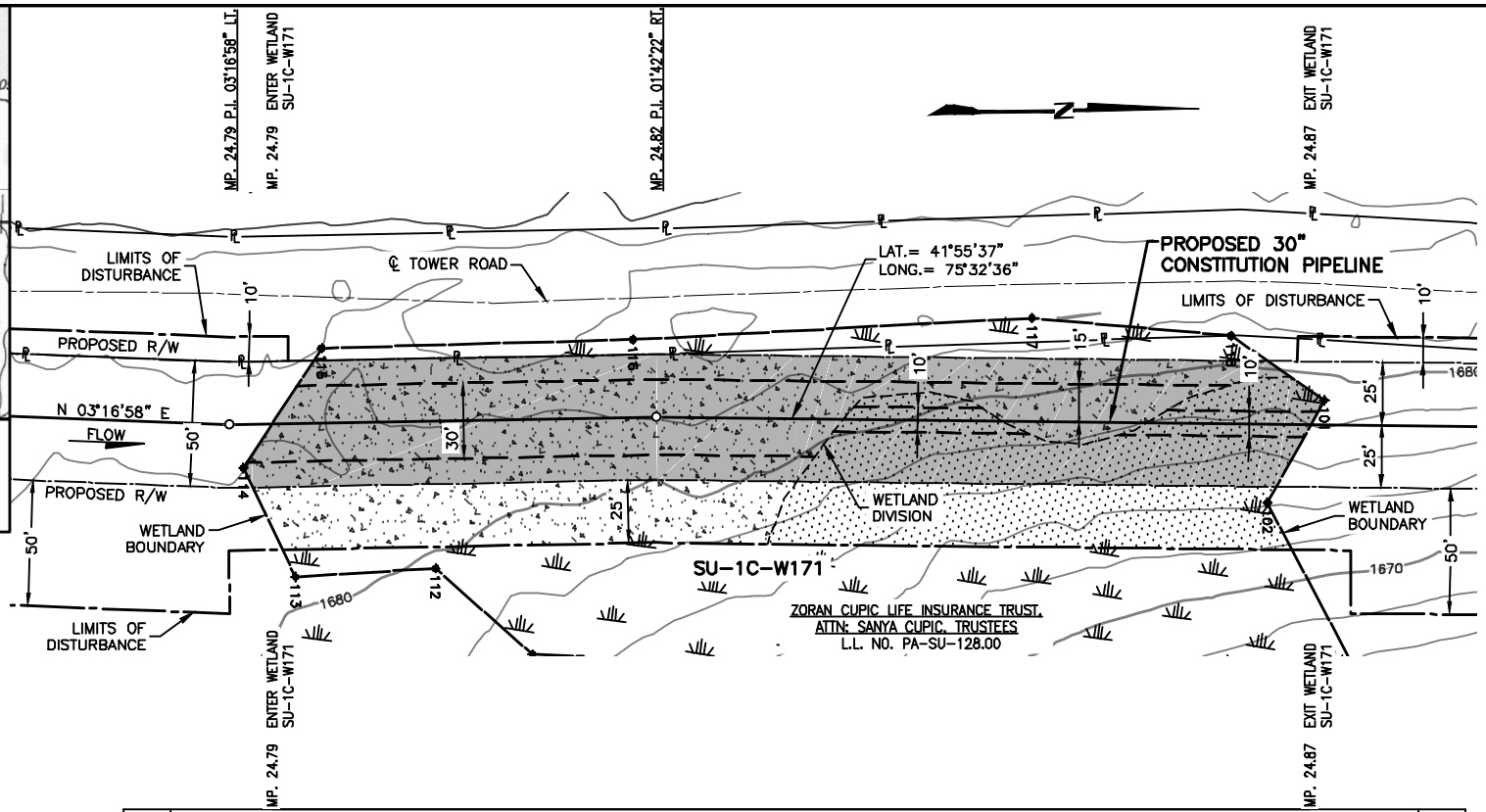


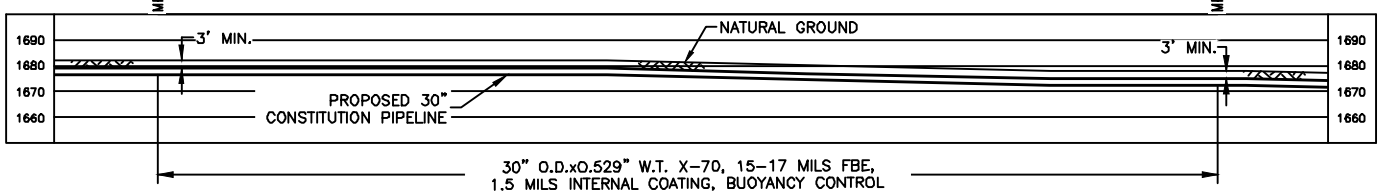
VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET





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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			Temporary ROW			50' Permanent ROW				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1C-W171	PFO/PSS	414	0.117	0.114		0.336	0.133		N/A	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-25	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	07-23-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	07-27-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-16-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-08-13	GIE	ISSUE FOR USE	1110415		

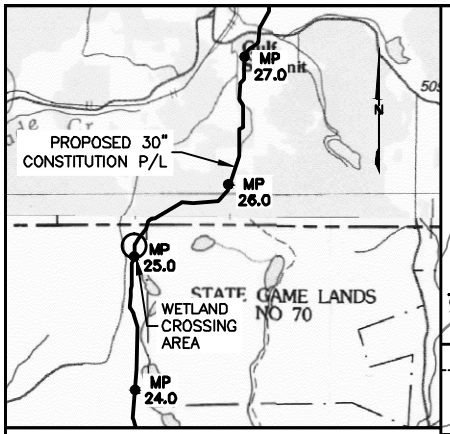
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1C-W171 @ M.P. 24.79
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 06-28-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-70/SU-1C-W171-1-2	SHEET 75 OF 362
WO: 1110415			

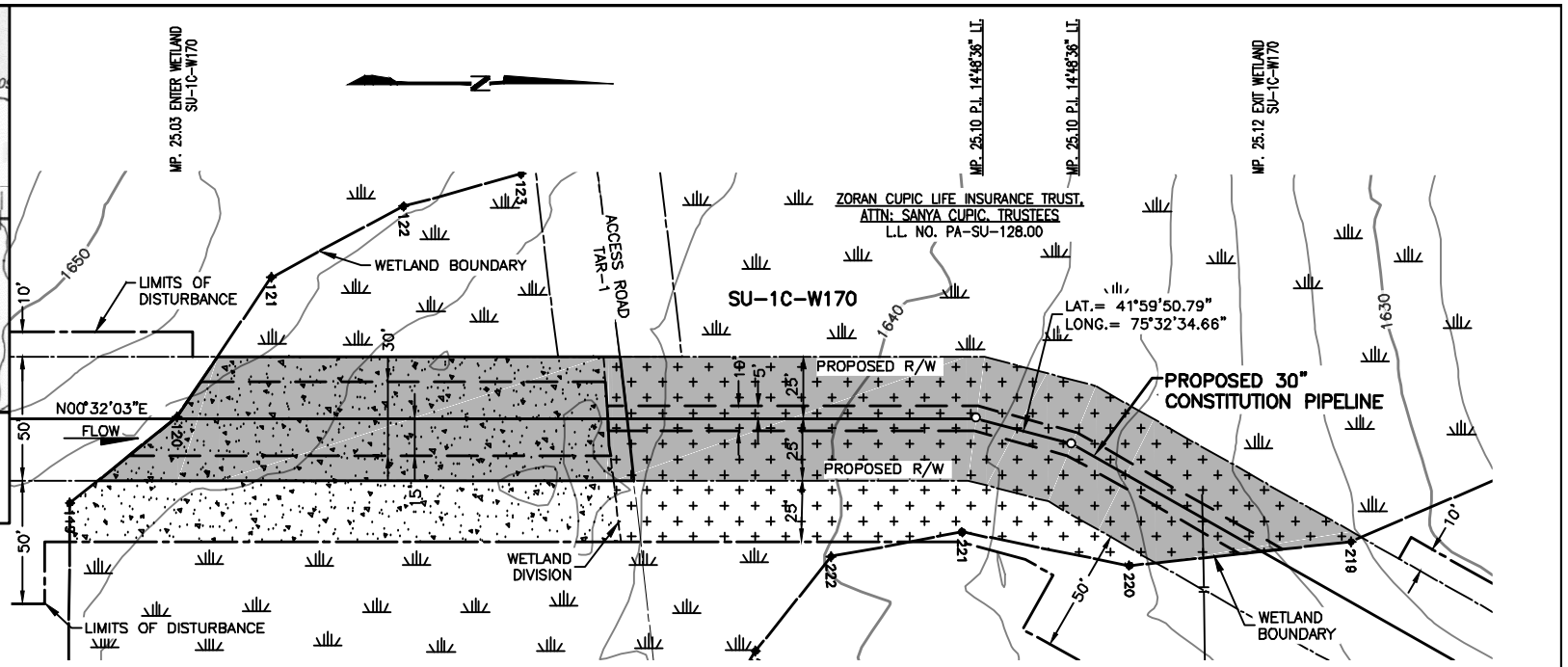


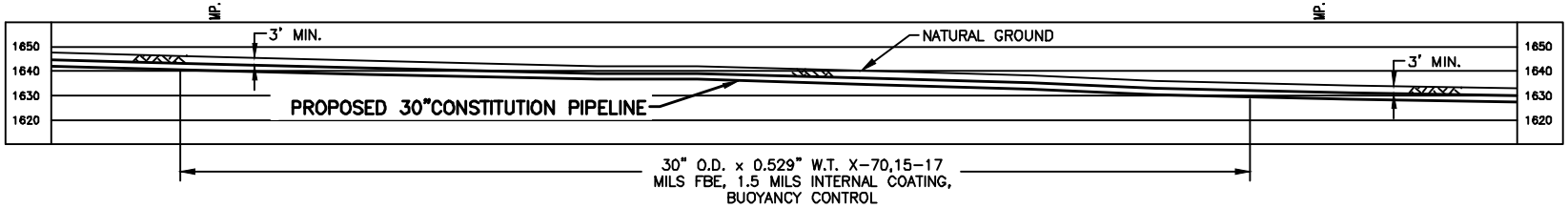
VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET





PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT PERMIT APPLICATION WITH THE USACE AND THE PADEP. PADEP REQUIRES CALCULATION OF THE FEATURE AREA WITHIN PROPOSED R/W AND THE TEMPORARY IMPACTS.
7. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. THIS AREA REPRESENTS OPERATION IMPACTS.
8. CONSTRUCTION IMPACTS ARE A COMBINATION OF PROPOSED R/W AND IMPACTS OUTSIDE THE PROPOSED R/W UP TO THE WORKSPACE BOUNDARY.
9. PERMANENT WETLAND COVER TYPE CONVERSION WILL BE DETERMINED BY THE OPERATIONAL MOWING AND CUTTING OF VEGETATION WITHIN THE PROPOSED R/W. A 10 FOOT WIDE PERMANENT CONVERSION OF PFO AND PSS TO PEM WILL BE CENTERED OVER THE PIPELINE. IN PFO, CUTTING OF TREES TO MAINTAIN A PSS COVER TYPE WILL EXTEND 10 FEET FROM THE CONVERTED PEM. THE REMAINING AREA WILL BE ALLOWED TO REVERT BACK TO PFO.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			Temporary ROW			50' Permanent ROW				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1C-W170	PFO/PEM	454	0.12		0.10	0.21		0.32	N/A	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-26	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	07-20-13	GIE	ISSUE FOR CLIENT REVIEW	1110415		
C	07-19-13	GIE	ISSUE FOR CLIENT REVIEW	1110415		
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-16-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
2	10-11-13	GIE	ISSUE FOR USE	1110415		

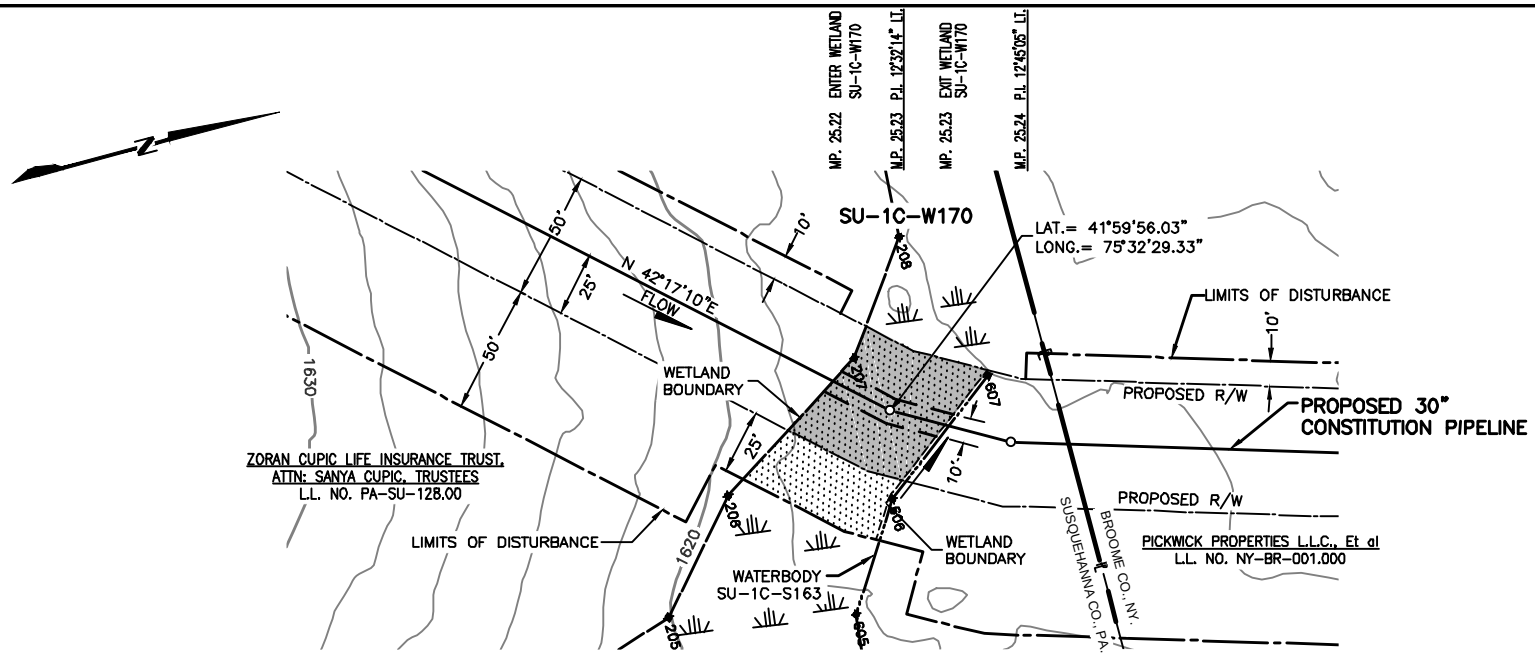
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

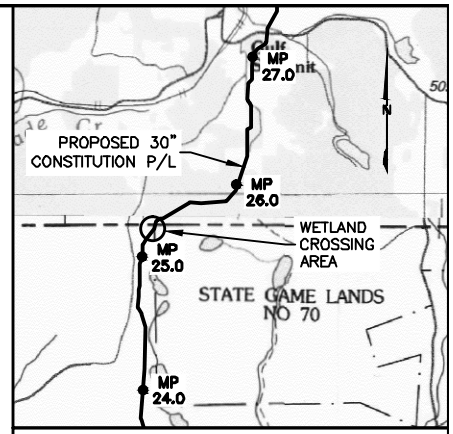
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1C-W170 @ M.P. 25.03
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-20-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-70/SU-1C-W170-1-2	SHEET 76 OF 362
W.O: 1110415			



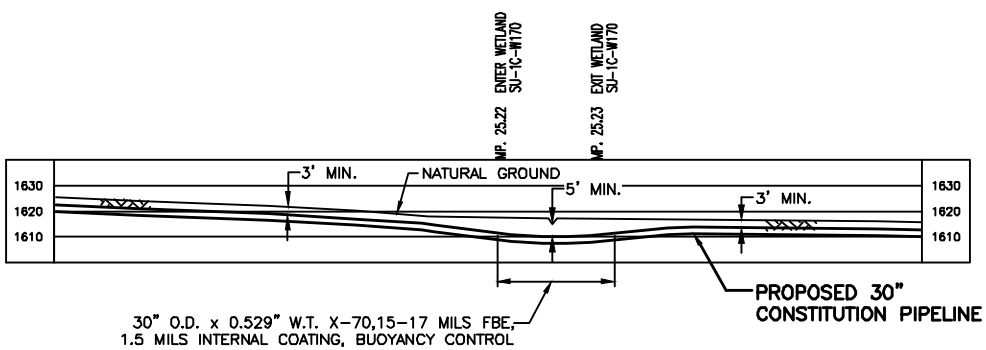


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT PERMIT APPLICATION WITH THE USACE AND THE PADEP. PADEP REQUIRES CALCULATION OF THE FEATURE AREA WITHIN PROPOSED R/W AND THE TEMPORARY IMPACTS.
7. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. THIS AREA REPRESENTS OPERATION IMPACTS.
8. CONSTRUCTION IMPACTS ARE A COMBINATION OF PROPOSED R/W AND IMPACTS OUTSIDE THE PROPOSED R/W UP TO THE WORKSPACE BOUNDARY.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)						State Wetland Classification	Crossing Method
			Temporary ROW			50' Permanent ROW				
			PFO	PSS	PEM	PFO	PSS	PEM		
SU-1C-W170	PSS	48		0.03			0.06		N/A	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-26	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	07-20-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
C	07-29-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-17-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-11-13	GIE	ISSUE FOR USE	1110415		

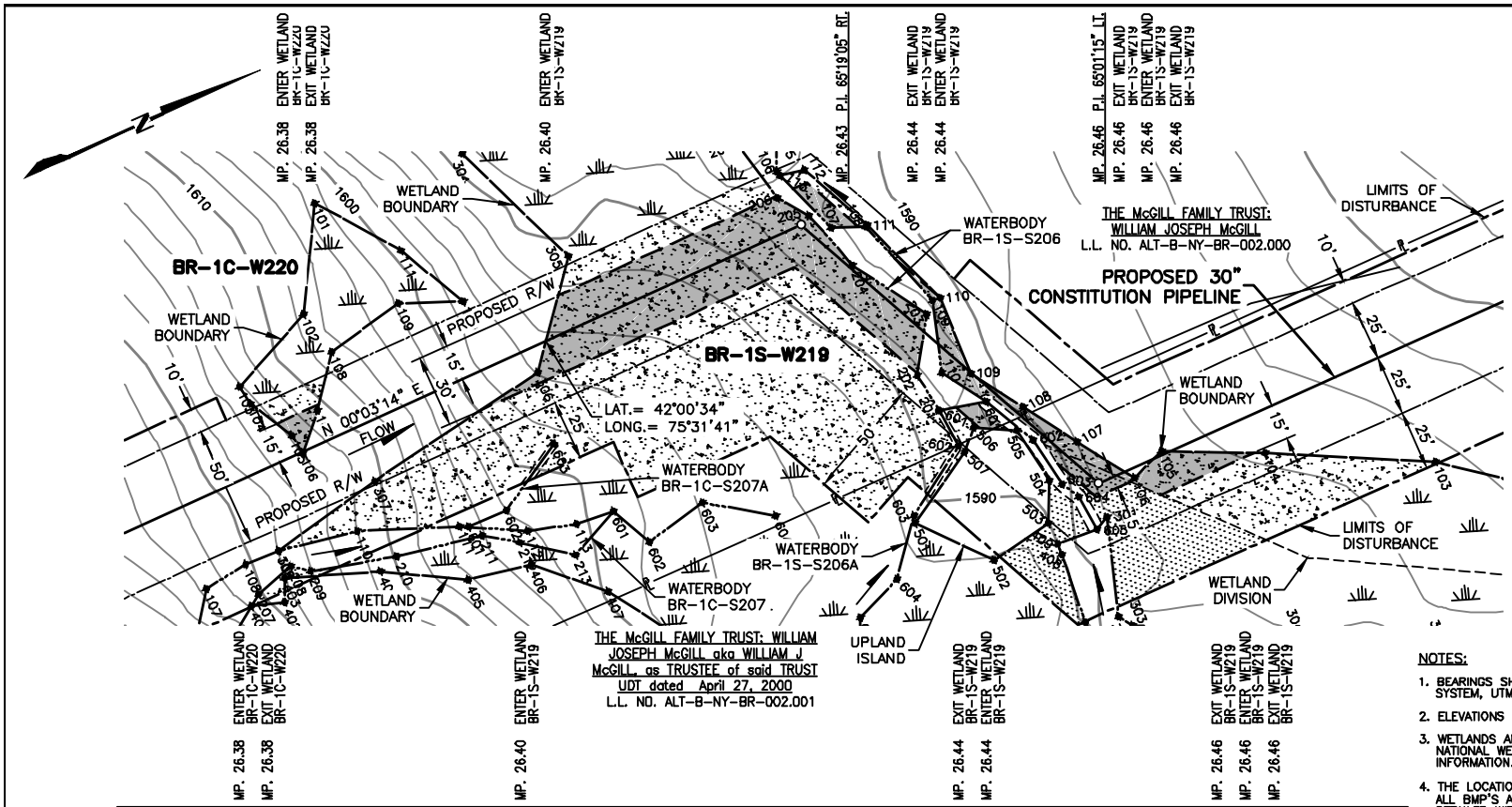
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

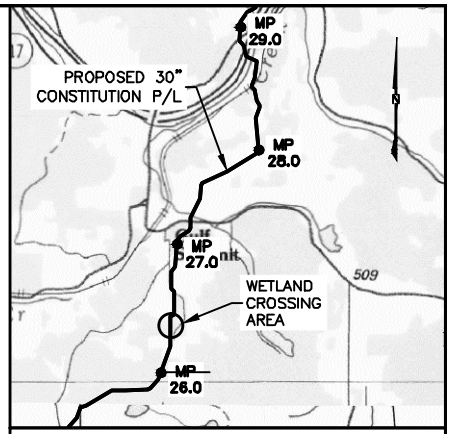
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING SU-1C-W170 @ M.P. 25.22
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-20-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-70/SU-1C-W170-2-2	SHEET 77 OF 362
W.O: 1110415			



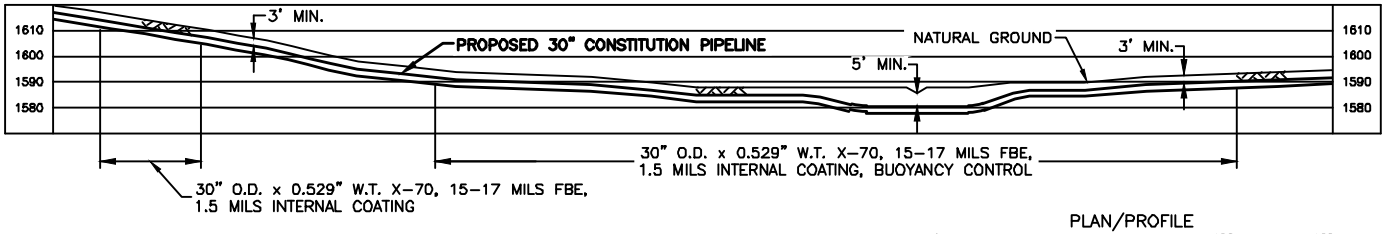


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY); OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1C-W220	PFO	1	0.01			0.01		N/A	N	Conventional
BR-1S-W219	PFO/PSS	289	0.52	0.07		0.14	0.01	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-27	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-10-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-23-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	10-29-13	GIE	ISSUE FOR USE	1110415		

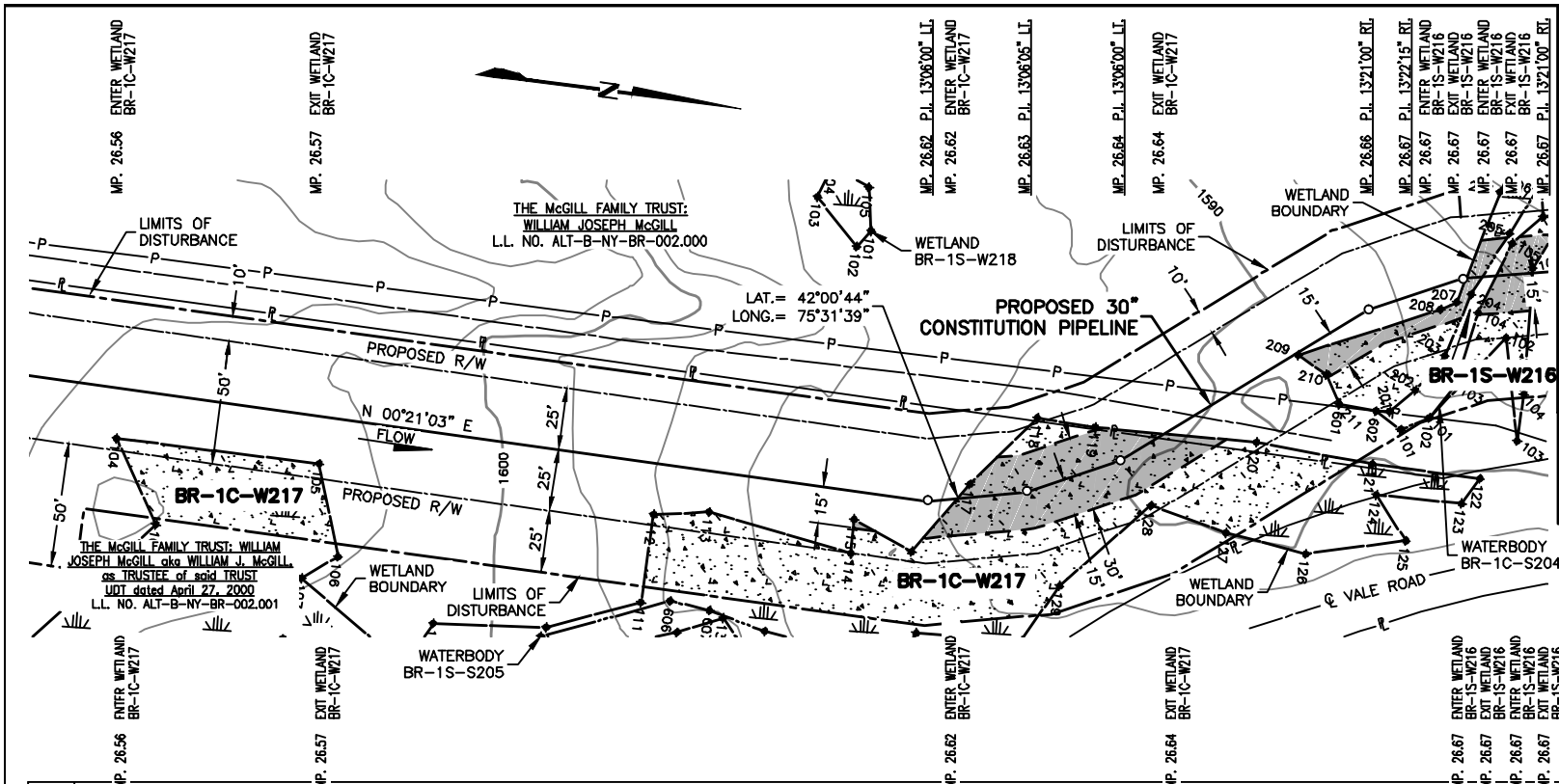
APPLICATION NO.: NAN-2012-00449-UBR

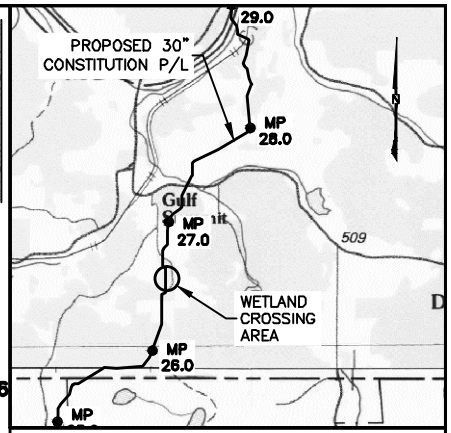
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSINGS BR-1C-W220 AND
BR-1S-W219 @ M.P. 26.38
TOWN OF SANFORD, BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-10-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1C-W220-1-0	SHEET 78 OF 362
WO: 1110415			



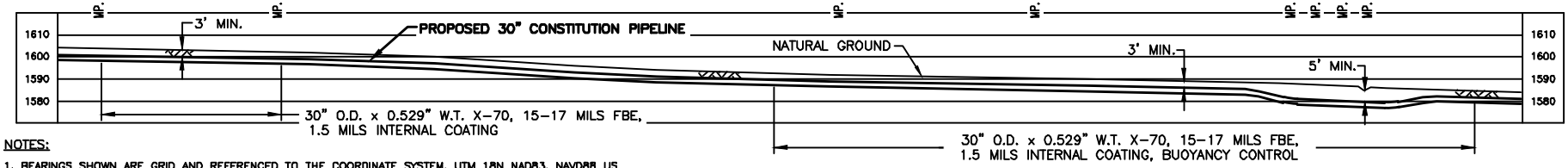


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY); OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1C-W217	PFO	89	0.30			0.06		N/A	N	CONVENTIONAL
BR-1S-W216	PFO	21	0.07			0.03		N/A	N	CONVENTIONAL

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-27	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-10-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	10-25-13	GIE	ISSUE FOR USE	1110415		

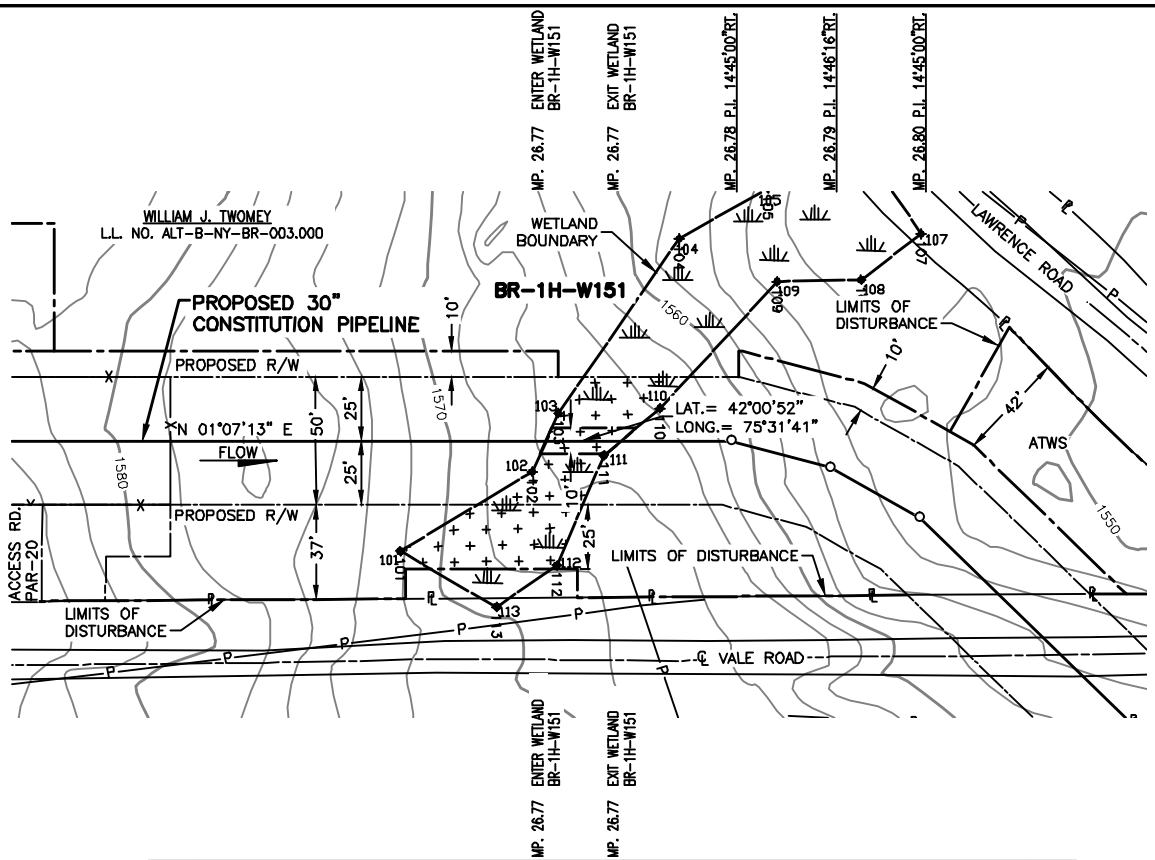
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

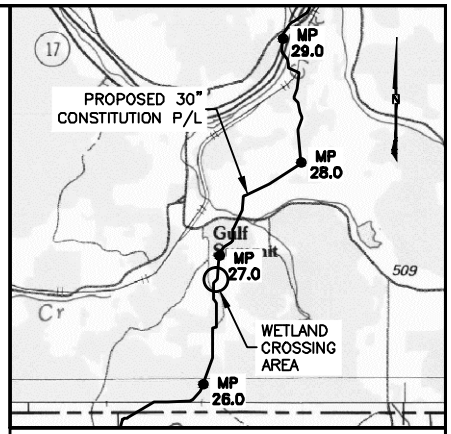
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSINGS BR-1C-W217 AND
BR-1S-W216 @ M.P. 26.56
TOWN OF SANFORD BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-10-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1C-W217-1-0	SHEET 79 OF 362
WO: 1110415			



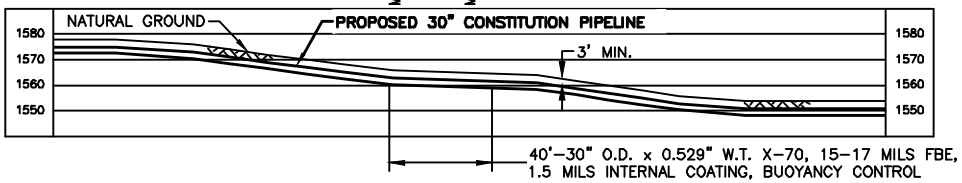


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 140

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION.
   CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY);
   OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1H-W151	PEM	29			0.07			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-28	ALIGNMENT SHEET

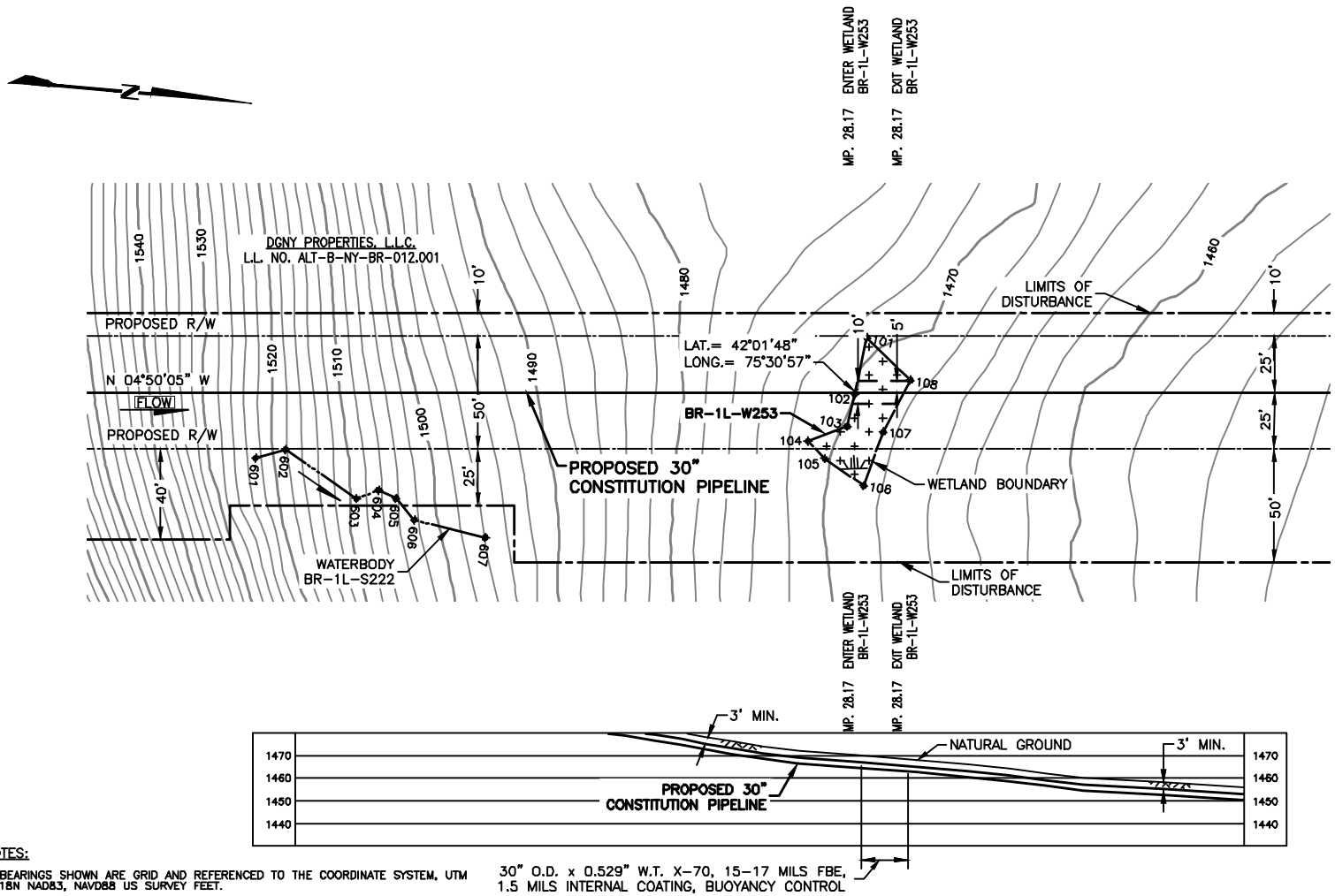
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-20-13	GIE	ISSUE FOR USE	1110415		
1	09-05-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-05-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-29-13	GIE	ISSUE FOR USE	1110415		

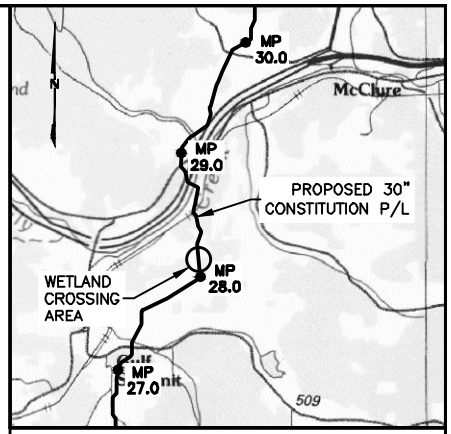
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1H-W151 @ M.P. 26.77
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-23-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1H-W151-1-3	SHEET 80 OF 362
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION.
   CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY);
   OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1L-W253	PEM	22			0.03			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-29	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-24-13	GIE	ISSUE FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

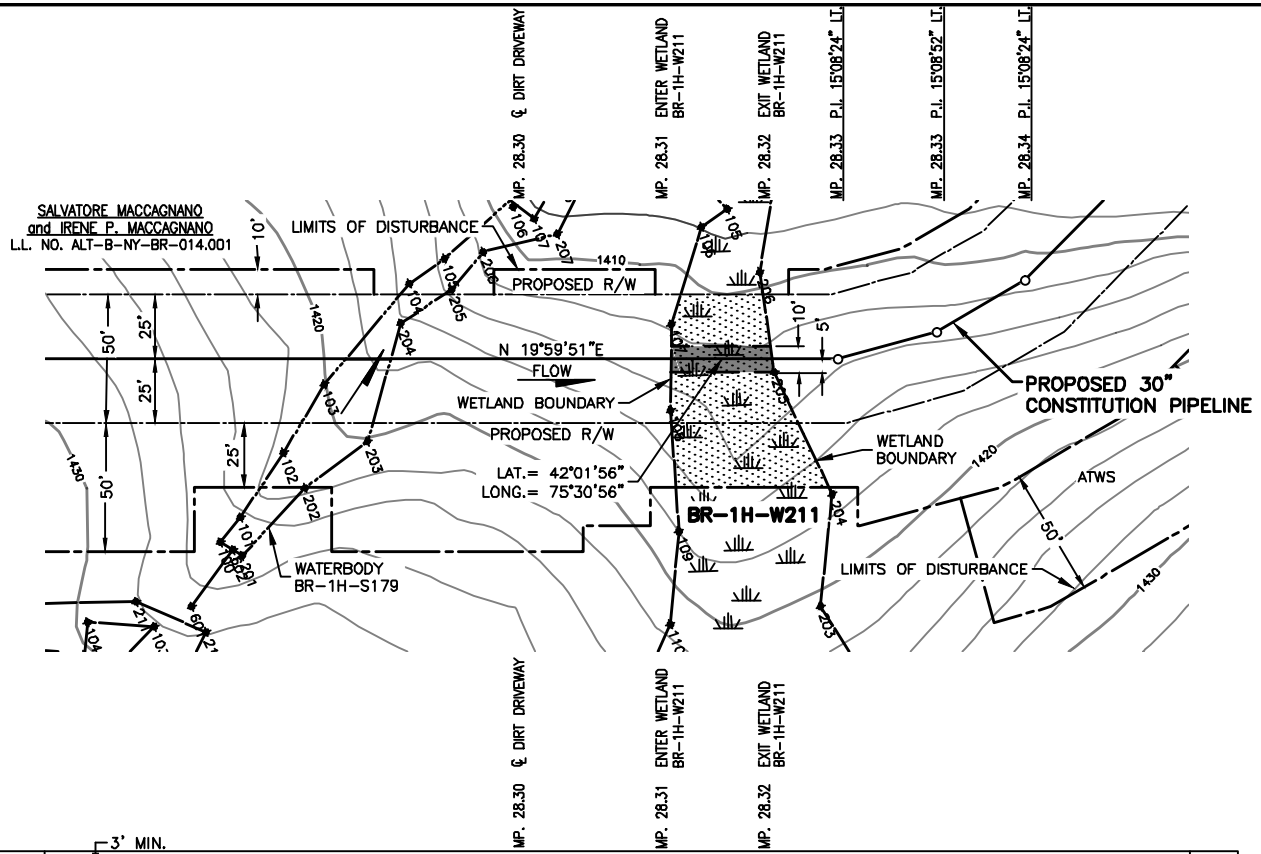
APPLICATION NO.: NAN-2012-00449-UBR

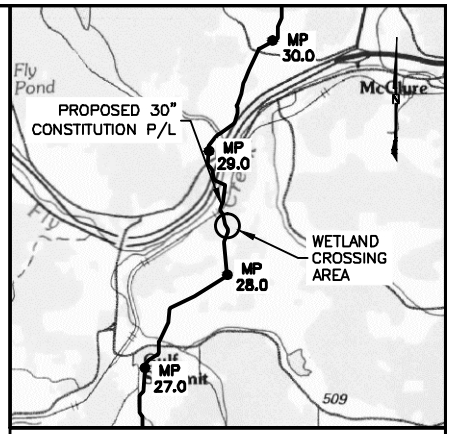
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1L-W253 @ M.P. 28.17
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-24-13	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1L-W253-1-0	SHEET 81 OF 362
WO: 1110415			



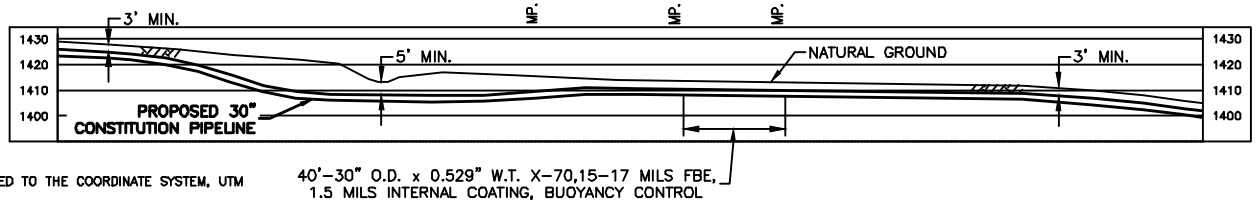


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
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   CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY);
   OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1H-W211	PSS	40		0.08			0.01	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-29	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1	09-05-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	09-06-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-11-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
5	10-29-13	GIE	ISSUE FOR USE	1110415		

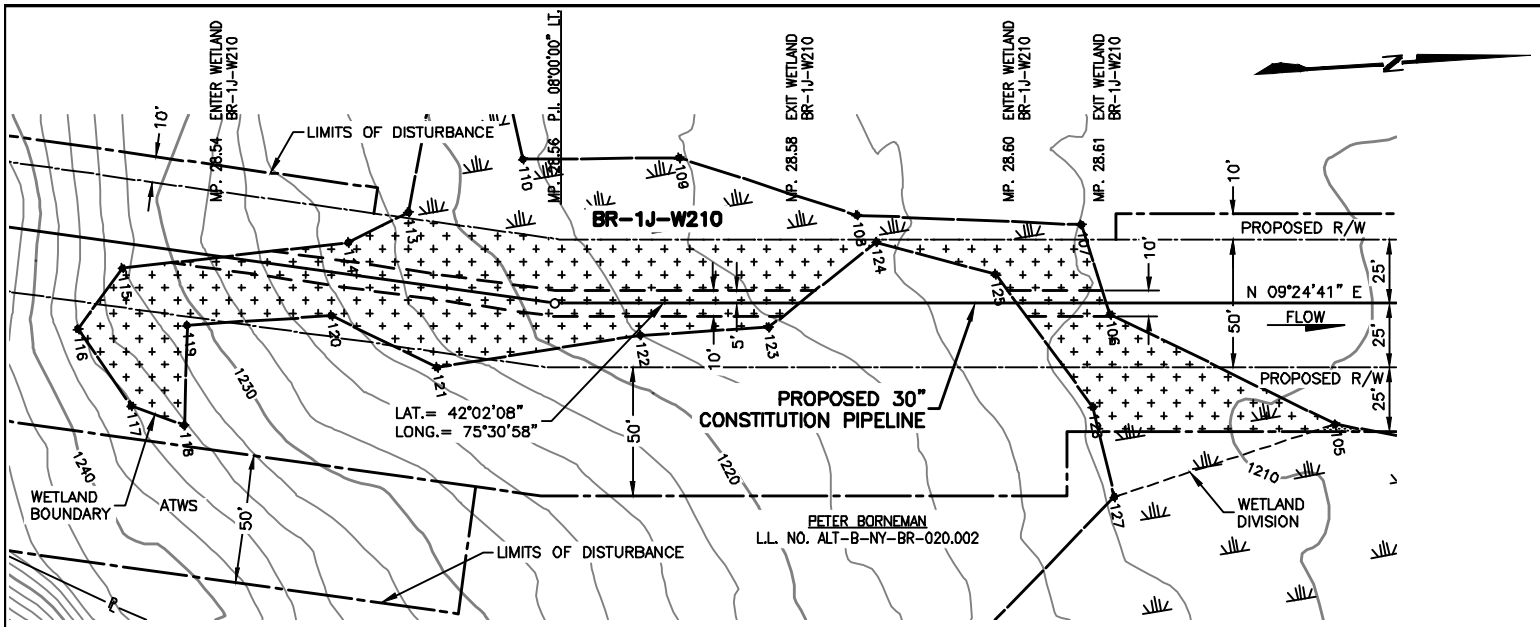
APPLICATION NO.: NAN-2012-00449-UBR

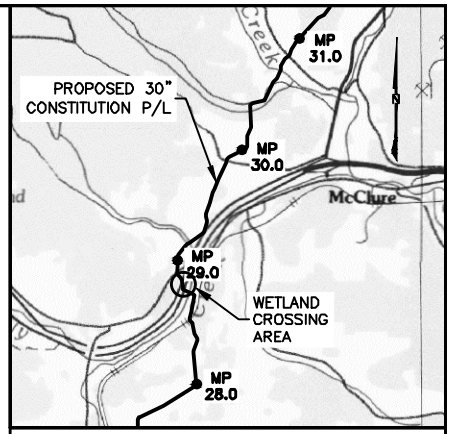
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1H-W211 @ M.P. 28.31
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 5-21-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1H-W211-1-5	SHEET 82 OF 362
WO: 1110415			



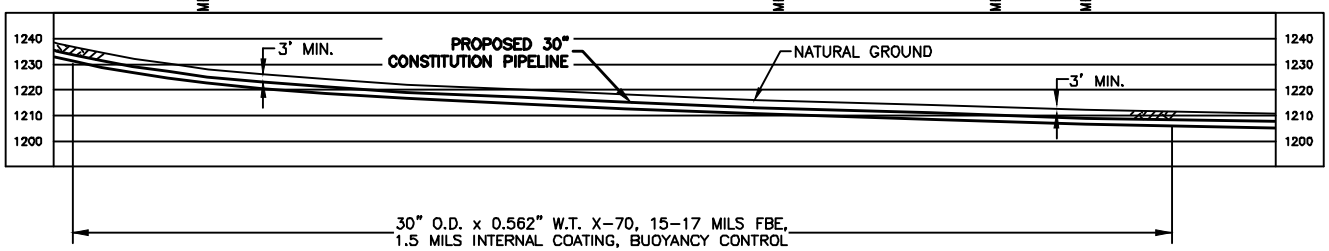


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY); OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1J-W210	PEM/PSS	261		0.01	0.36			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-29	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-06-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-30-13	GIE	ISSUE FOR USE	1110415		
4	10-31-13	GIE	ISSUE FOR USE	1110415		

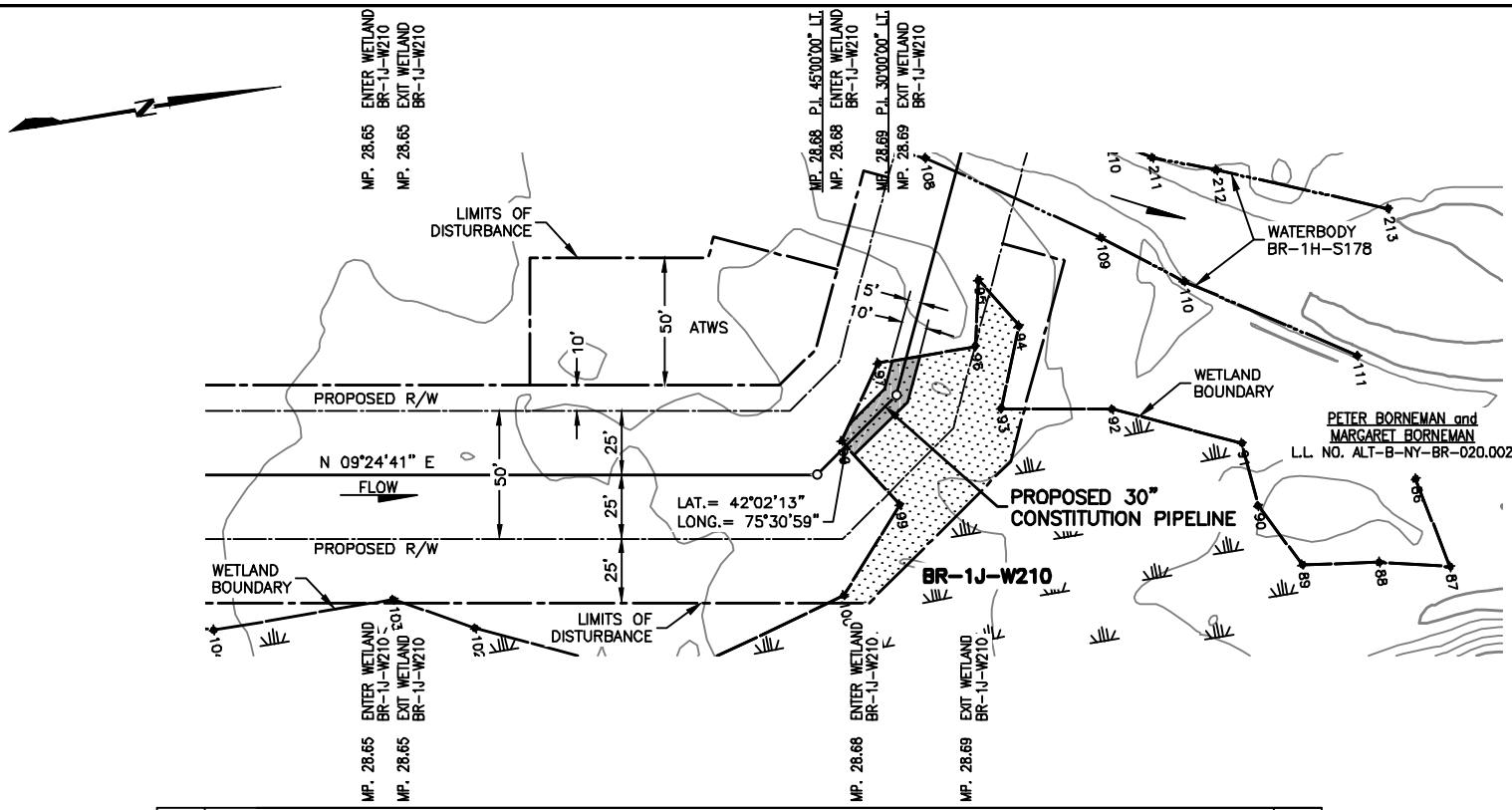
APPLICATION NO.: NAN-2012-00449-UBR

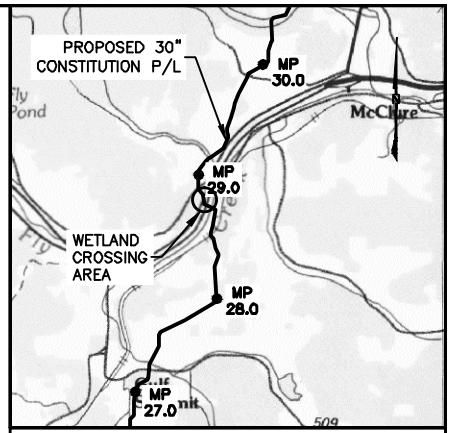
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1J-W210 @ M.P. 28.54
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 5-21-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1J-W210-1-4	SHEET 83 OF 362
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1J-W210	PSS	43		0.11			0.01	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-30	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-15-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-25-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	10-30-13	GIE	ISSUE FOR USE	1110415		
1	10-31-13	GIE	ISSUE FOR USE	1110415		

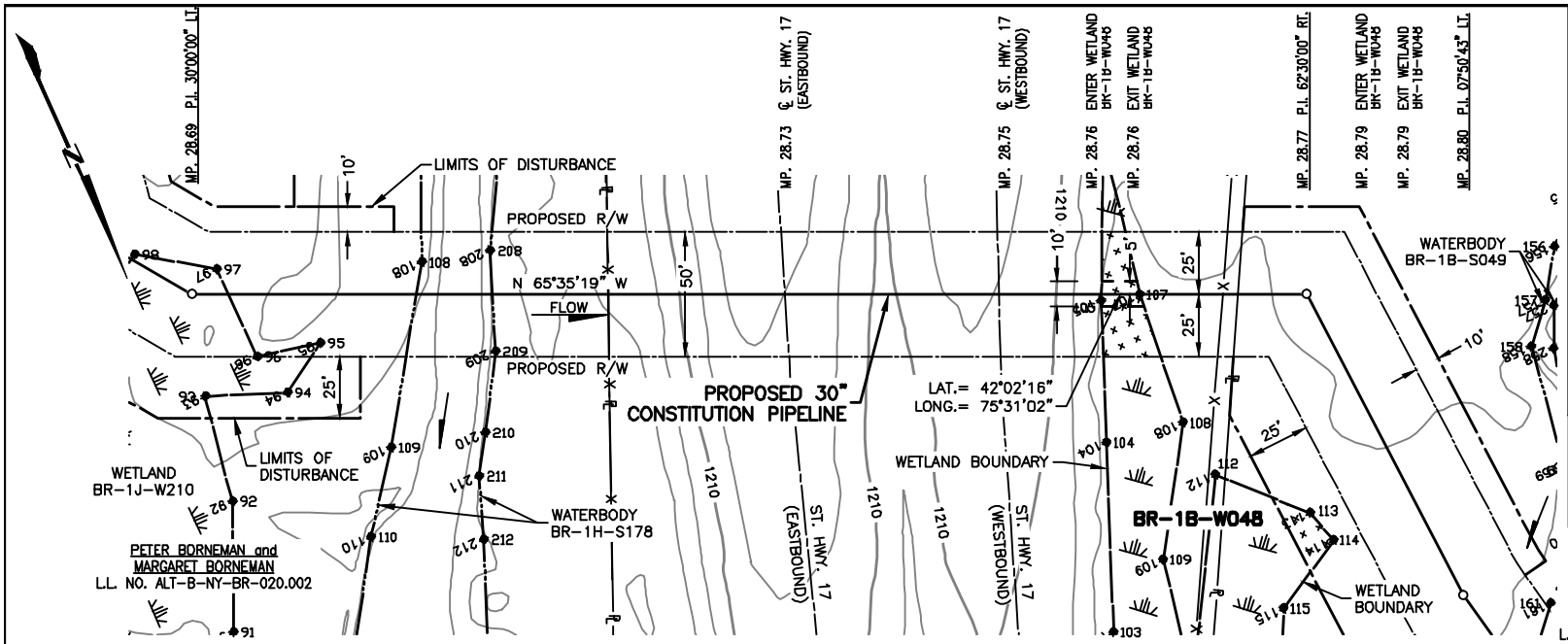
APPLICATION NO.: NAN-2012-00449-UBR

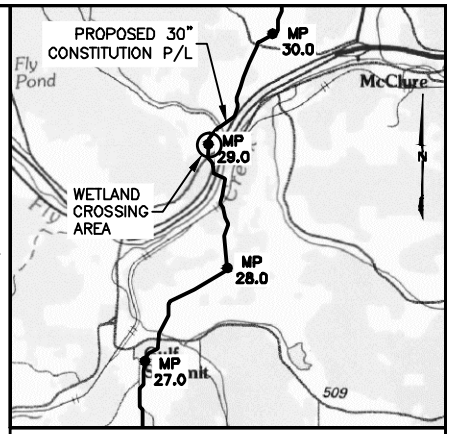
GULF INTERSTATE ENGINEERING HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1J-W210 @ M.P. 28.65
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 5-21-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1J-W210-2-1	SHEET 84 OF 358
WO: 1110415			



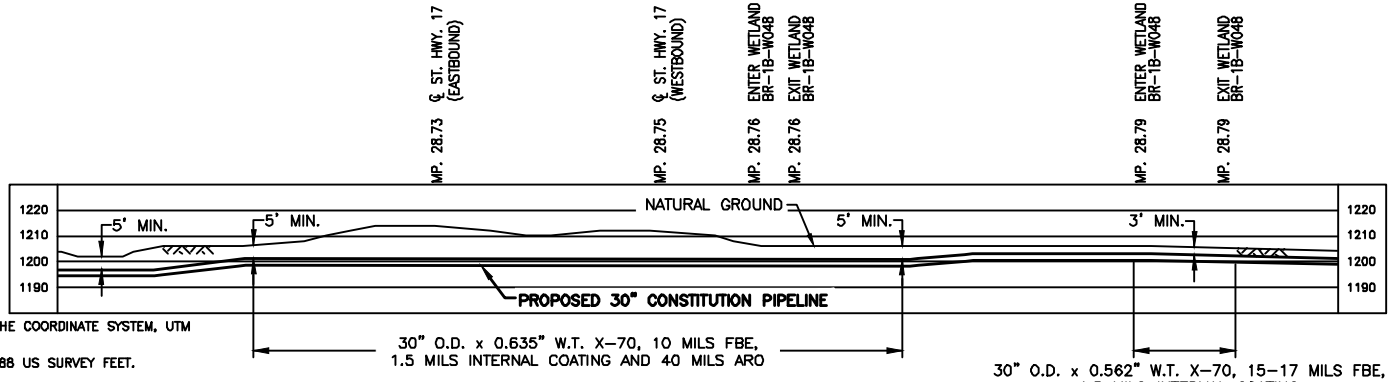


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1B-W048	PEM	15			0.03			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-30	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-11-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-24-13	GIE	REVISED - ISSUED FOR USE	1110415		
C	10-30-13	GIE	REVISED - ISSUED FOR USE	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

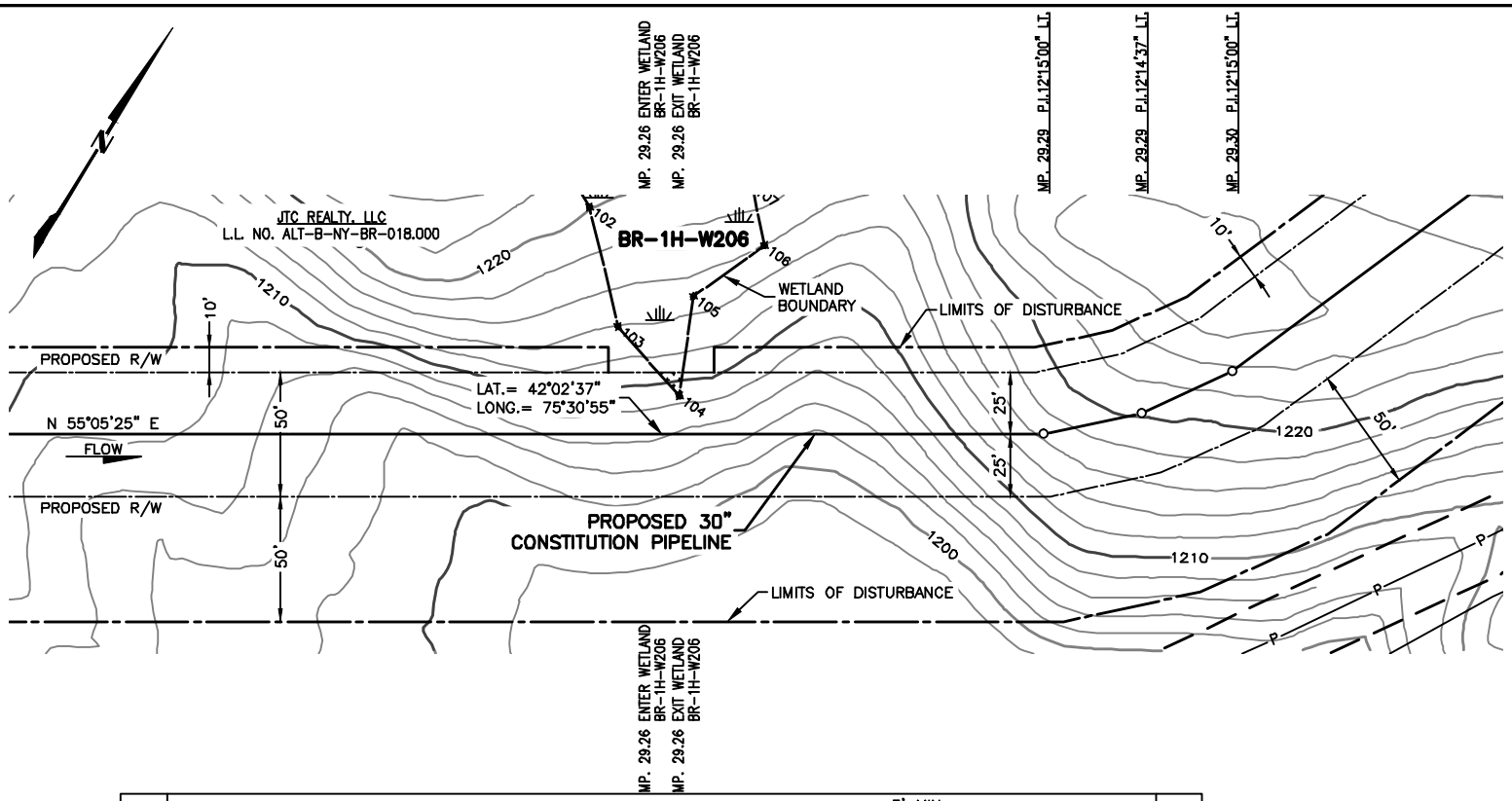
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

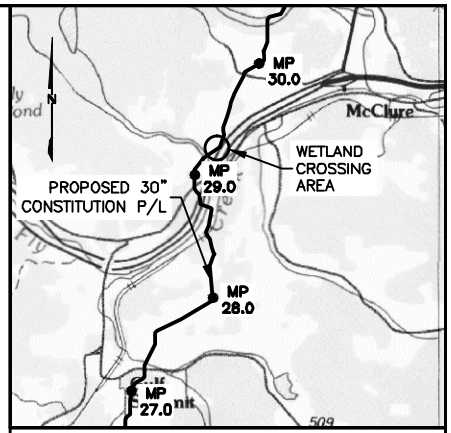
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1B-W048 @ M.P. 28.76
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-11-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1B-W048-1-0	SHEET 85 OF 362
WO: 1110415			



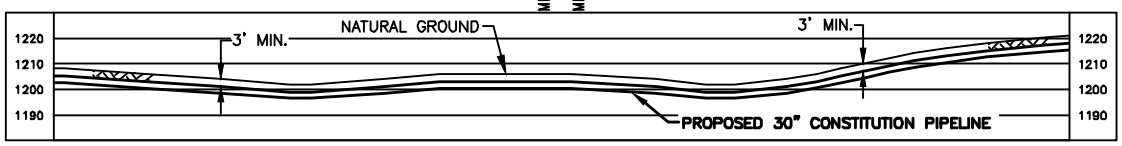


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE,
1.5 MILS INTERNAL COATING

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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   OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1H-W206	PEM	0			0.01			N/A	N	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-30	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-15-13	GIE	ISSUE FOR USE	1110415		
1	08-20-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	09-06-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	09-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-11-13	GIE	ISSUE FOR USE	1110415		

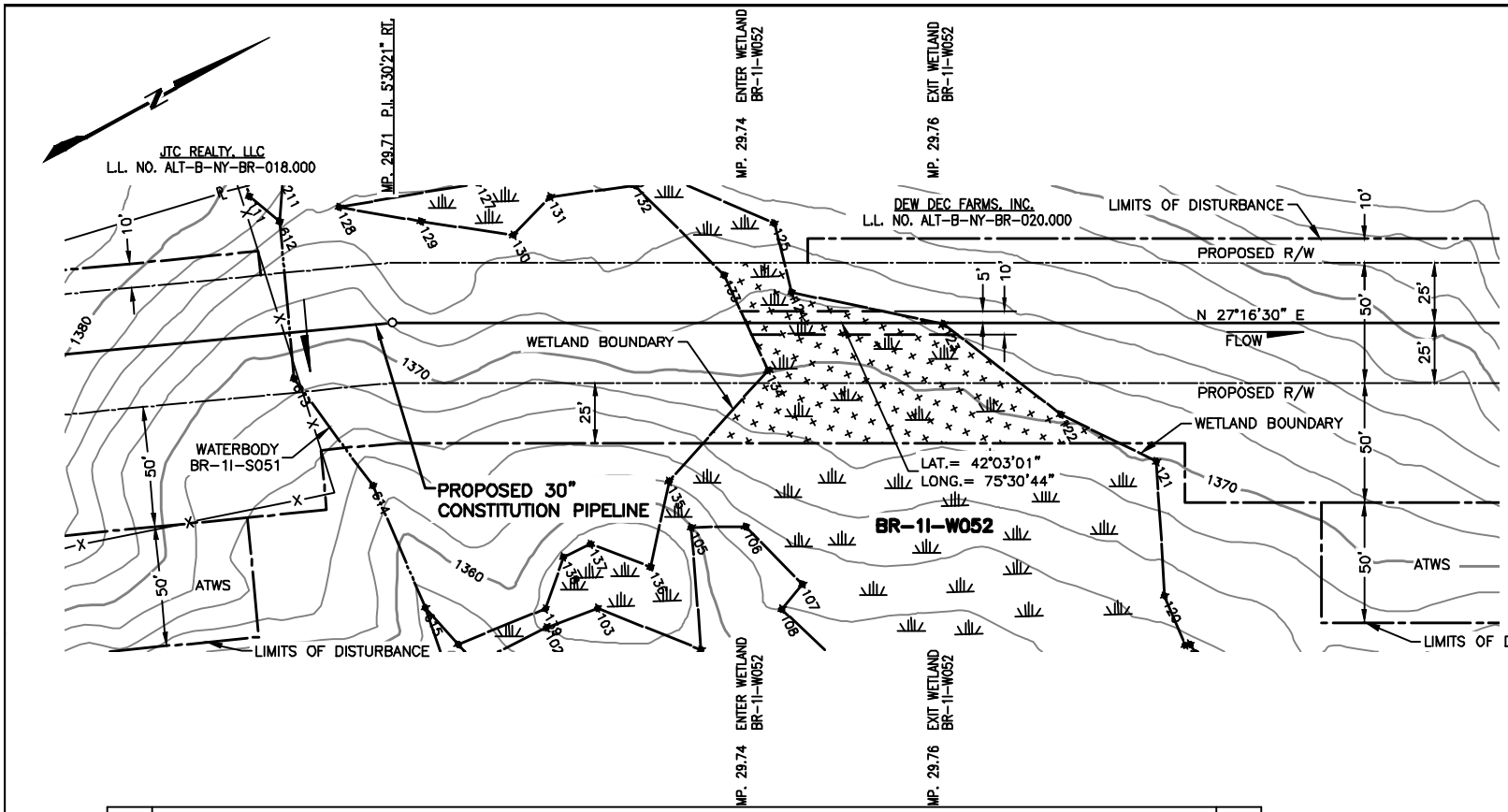
APPLICATION NO.: NAN-2012-00449-UBR

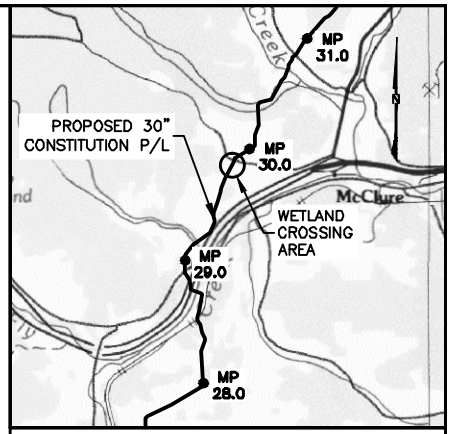
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1H-W206 @ M.P. 29.26
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-27-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1H-W206-1-4	SHEET 86 OF 362
WO: 1110415			



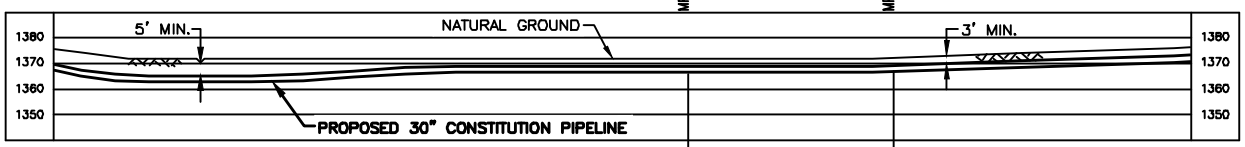


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY); OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1I-W052	PEM	80			0.16			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-31	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-13-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415	*	*
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415	*	*
0	08-20-13	GIE	ISSUE FOR USE	1110415	*	*
1	09-07-13	GIE	REVISED - ISSUE FOR USE	1110415	*	*
2	10-5-13	GIE	ISSUE FOR USE	1110415	*	*

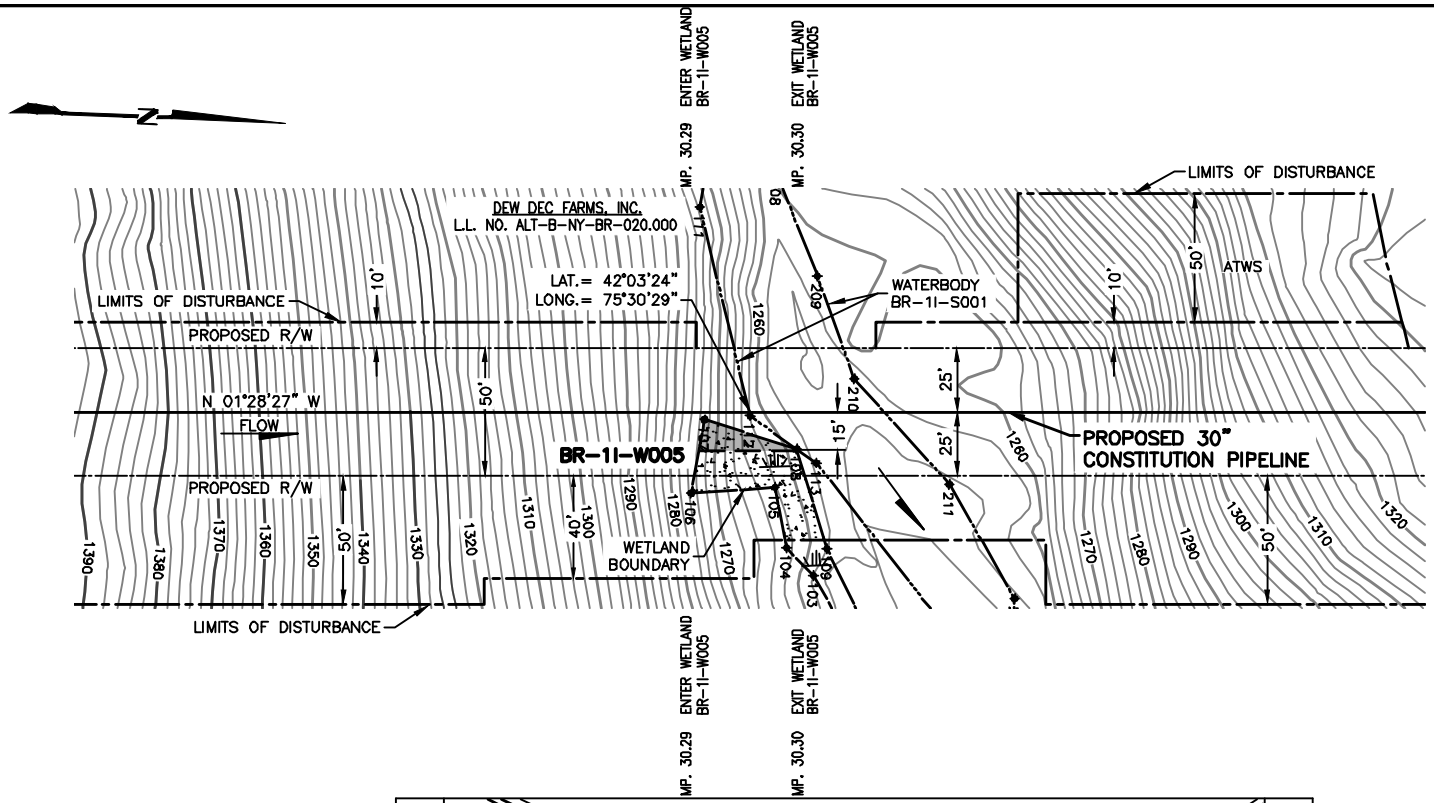
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

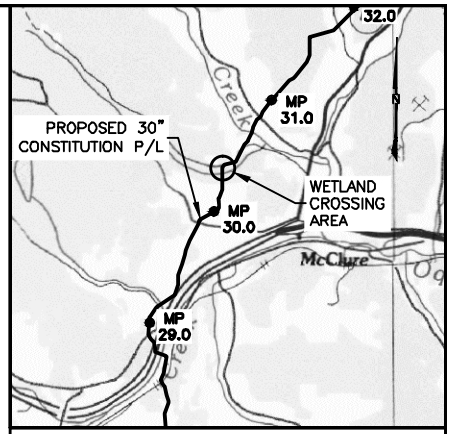
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W052 @ M.P. 29.74
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 08-08-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W052-1-2	SHEET 87 OF 362
WO: 1110415			



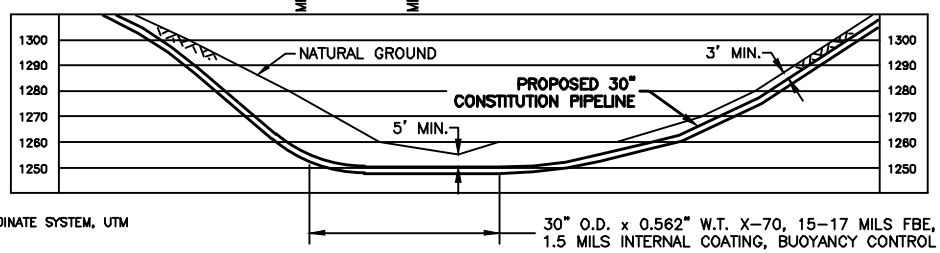


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

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2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1I-W005	PFO	0	0.03			0.01		N/A	N	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-31	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-05-13	GIE	ISSUE FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

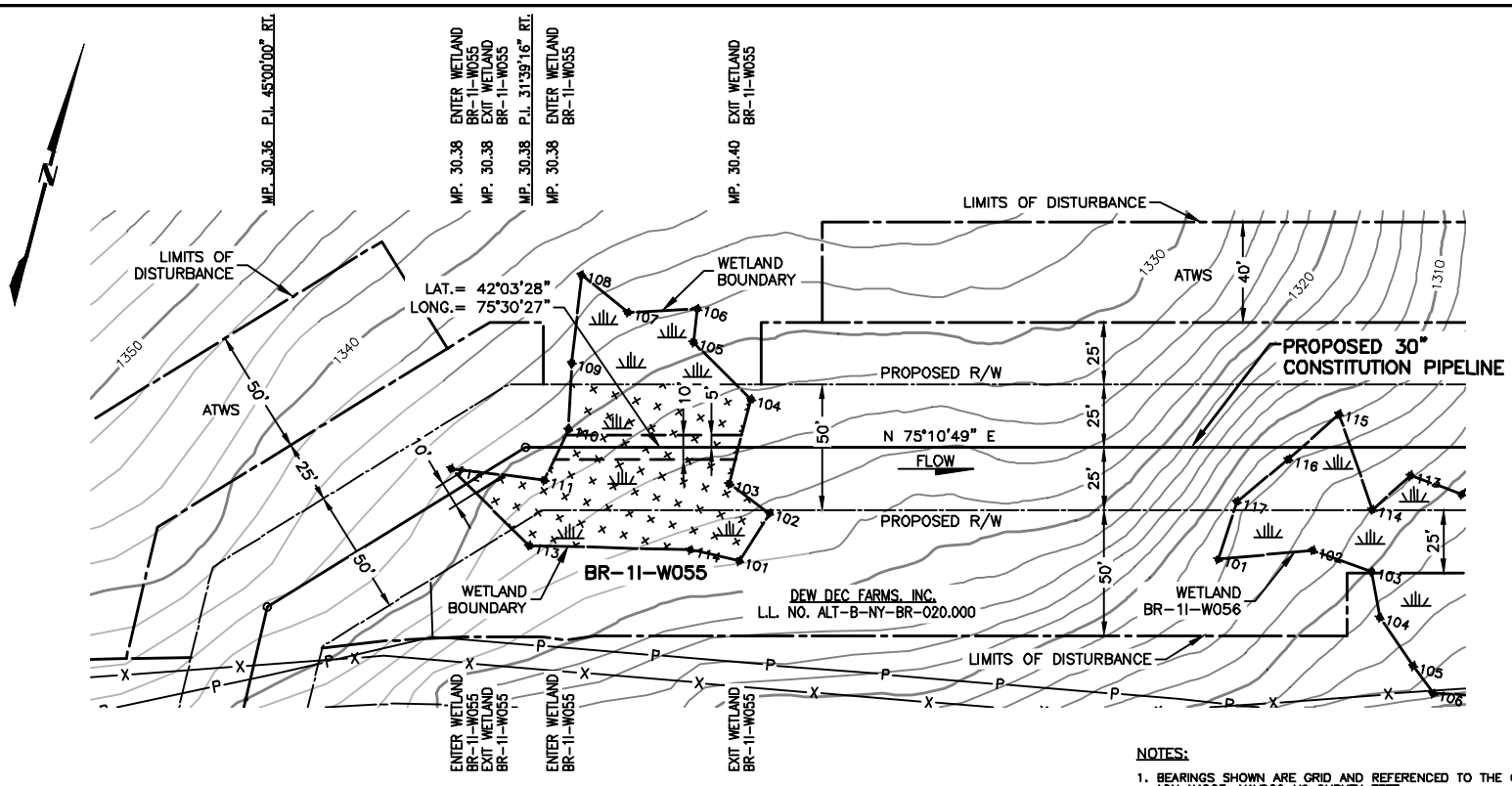
APPLICATION NO.: NAN-2012-00449-UBR

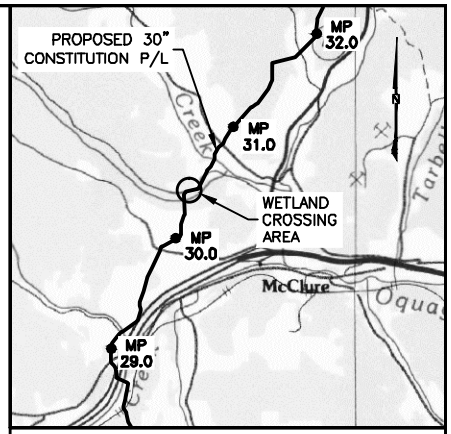
GULF INTERSTATE ENGINEERING HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W005 @ M.P. 30.29
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-08-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W005-1-3	SHEET 88 OF 362
WO: 1110415			



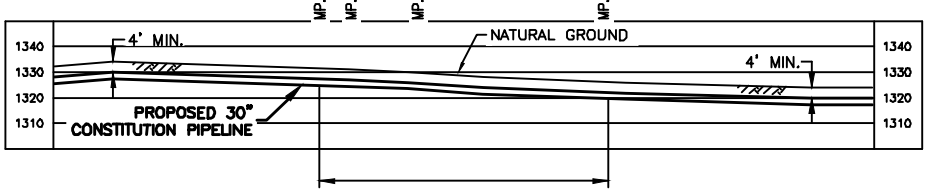


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE,
1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

NOTES:

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CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY);
OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1I-W055	PEM	80			0.13			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-31	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-09-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-29-13	GIE	ISSUE FOR USE	1110415		

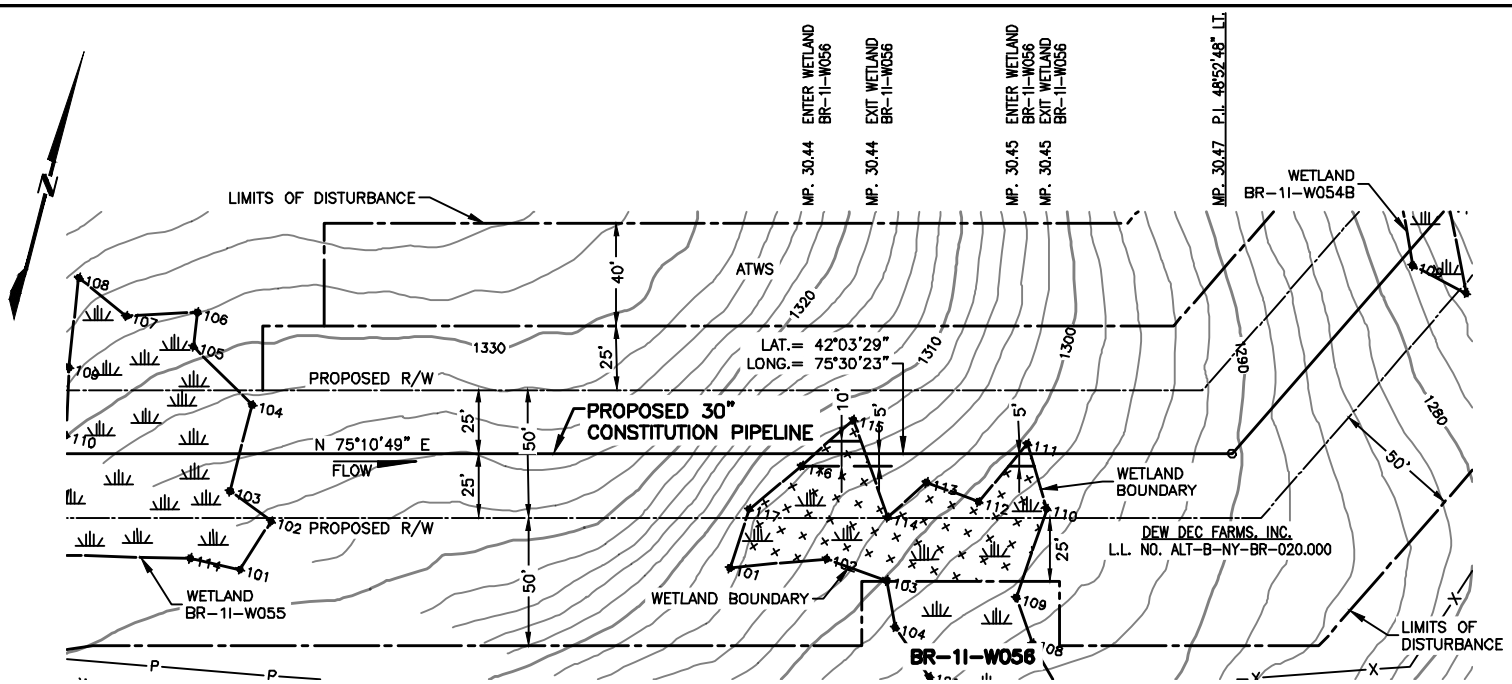
APPLICATION NO.: NAN-2012-00449-UBR

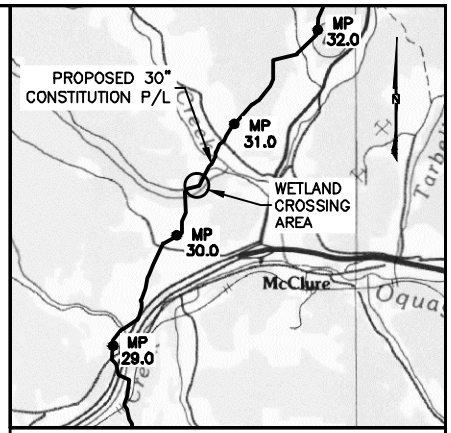
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W055 @ M.P. 30.38
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-08-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W055-1-3	SHEET 89 OF 362
WO: 1110415			



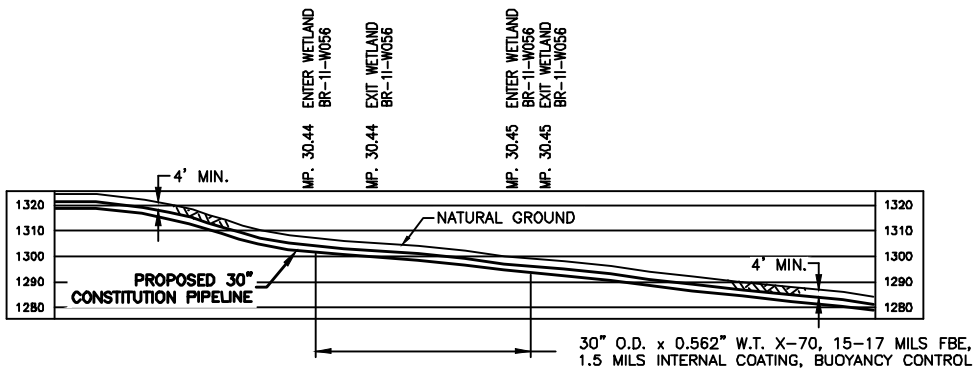


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1I-W056	PEM	24			0.100			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-31	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED, ISSUE FOR USE	1110415		
C	08-18-13	GIE	REVISED, ISSUE FOR USE	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-09-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-05-13	GIE	ISSUE FOR USE	1110415		

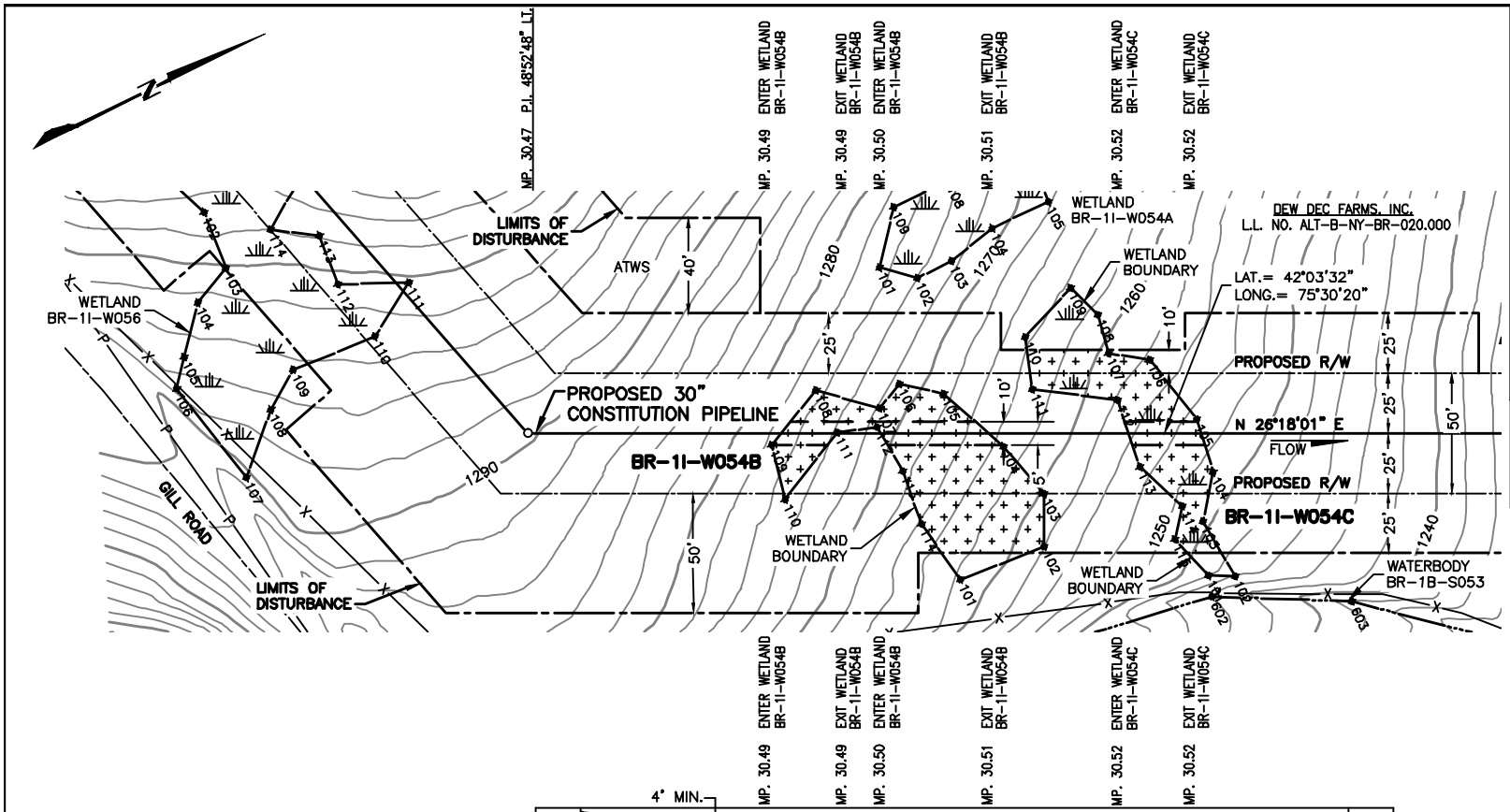
APPLICATION NO.: NAN-2012-00449-UBR

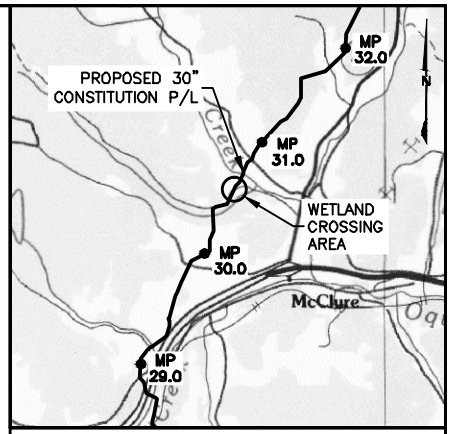
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W056 @ M.P. 30.44
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-08-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W056-1-2	SHEET 90 OF 362
WO: 1110415			



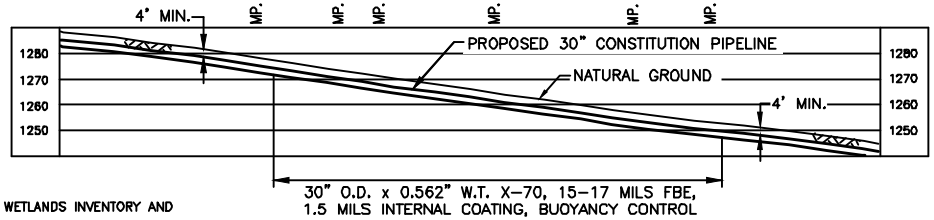


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1I-W054B	PEM	68			0.09			N/A	N	Conventional
BR-1I-W054C	PEM	30			0.06			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-31	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-15-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-17-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-09-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-05-13	GIE	ISSUE FOR USE	1110415		

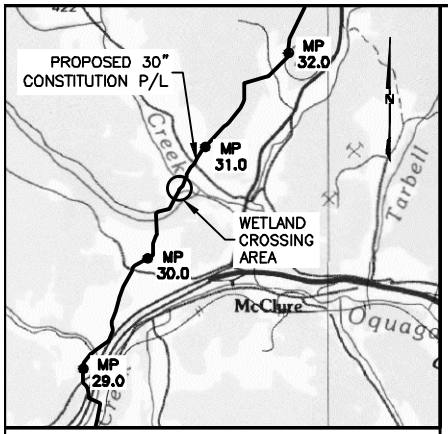
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSINGS BR-1I-W054B, BR-1I-W054C @ M.P. 30.49
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-08-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W054B-1-2	SHEET 91 OF 362
WO: 1110415			

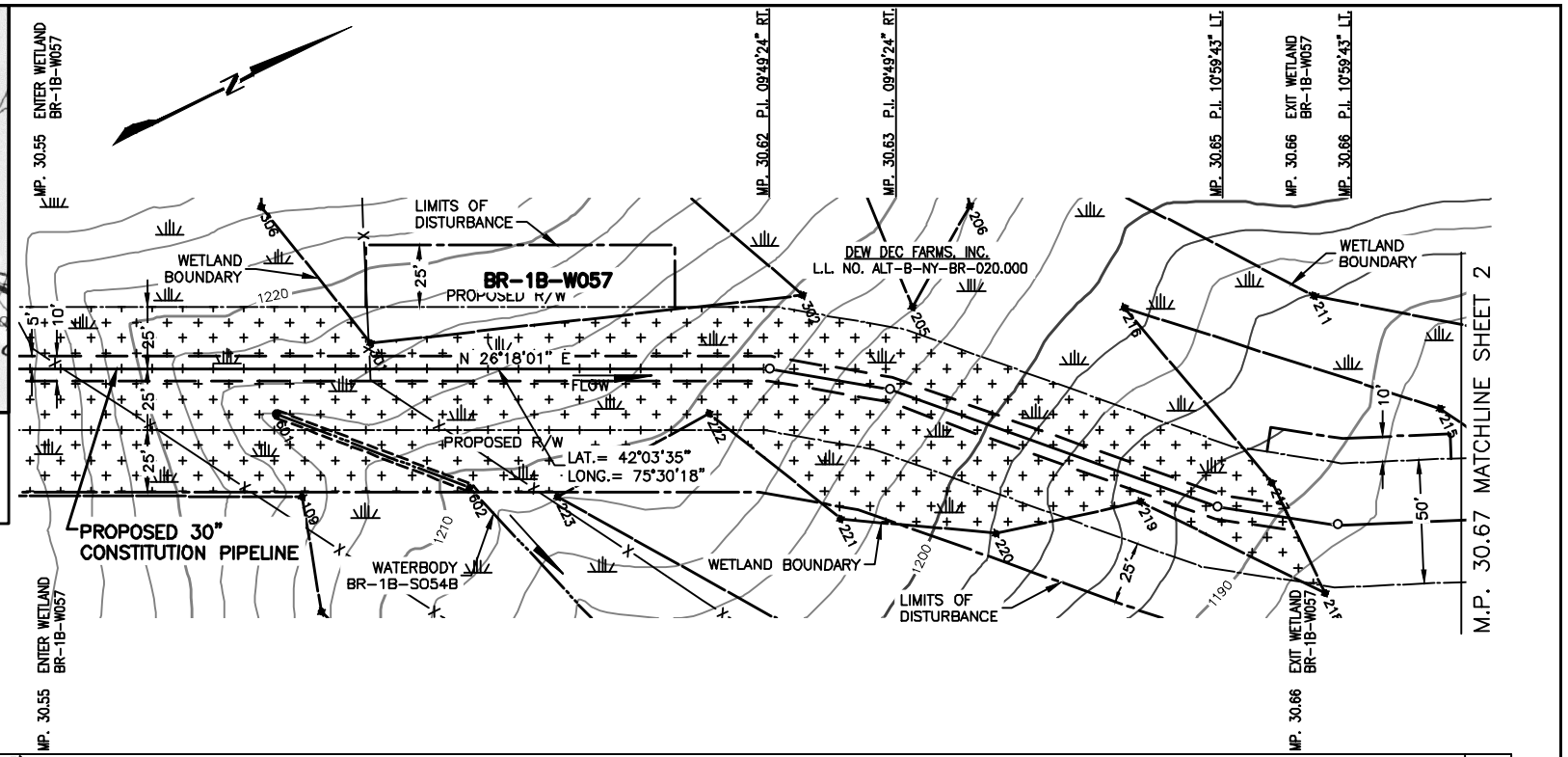


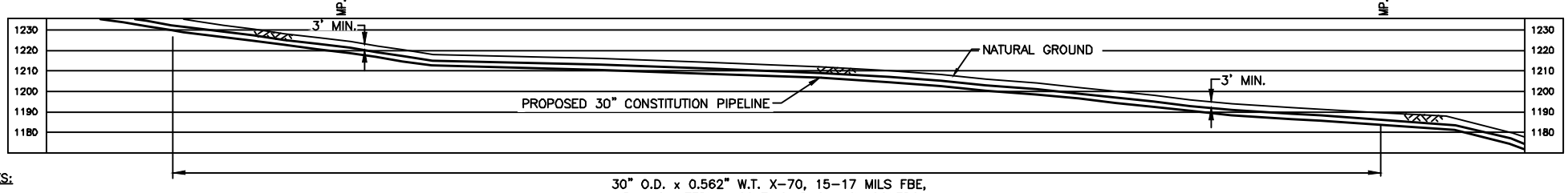
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1B-W057	PEM	582			0.84			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-31	ALIGNMENT SHEET
26-26-70/0001-32	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
D	08-19-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
1	09-19-13	GIE	ISSUE FOR USE	1110415		
2	10-25-13	GIE	ISSUE FOR USE	1110415		
3	10-29-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-30-13	GIE	ISSUE FOR USE	1110415		

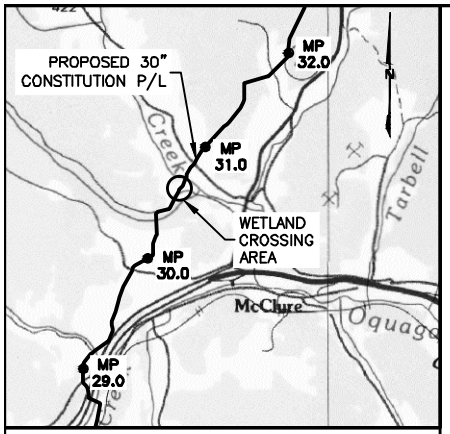
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1B-W057 @ M.P. 30.55
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-08-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1B-W057-1-4	SHEET 92 OF 362
WO: 1110415			

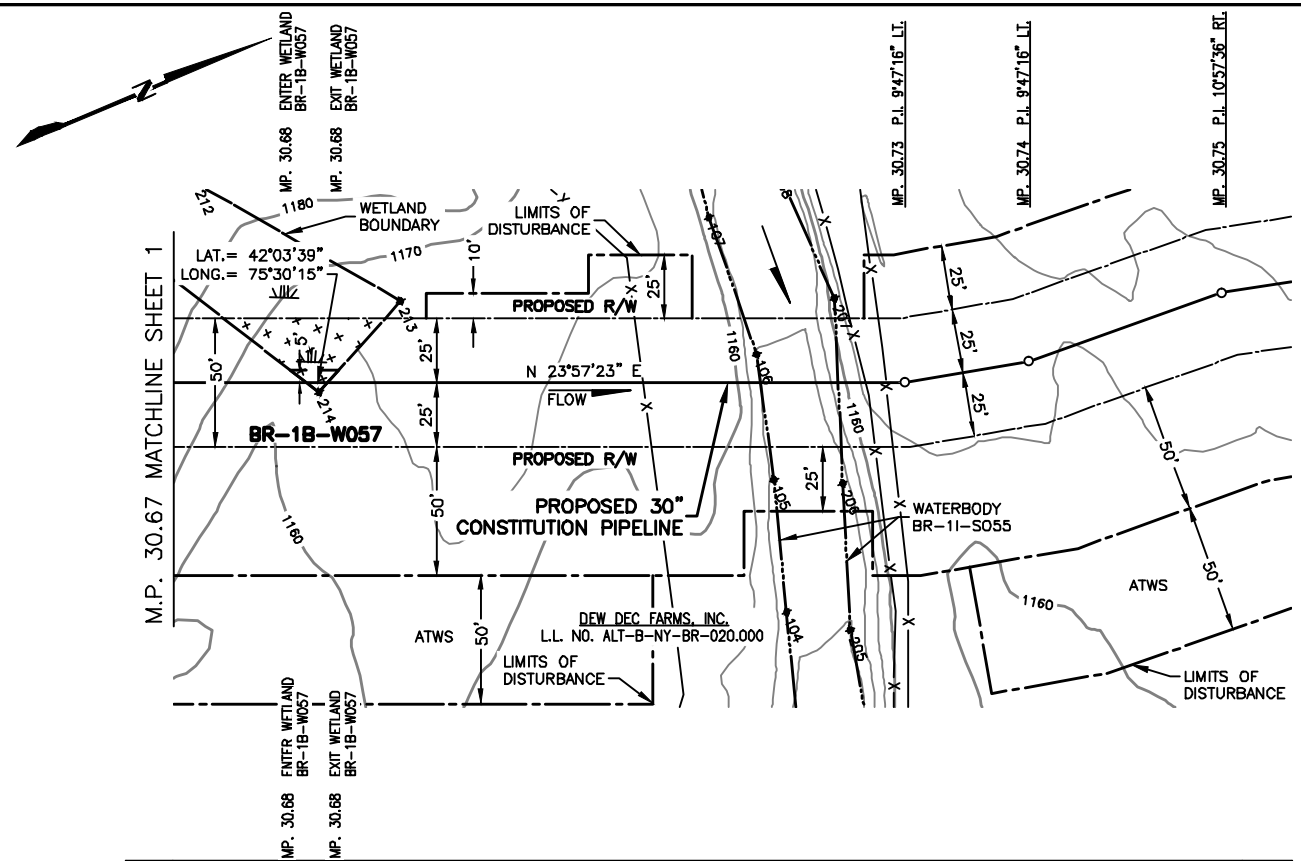


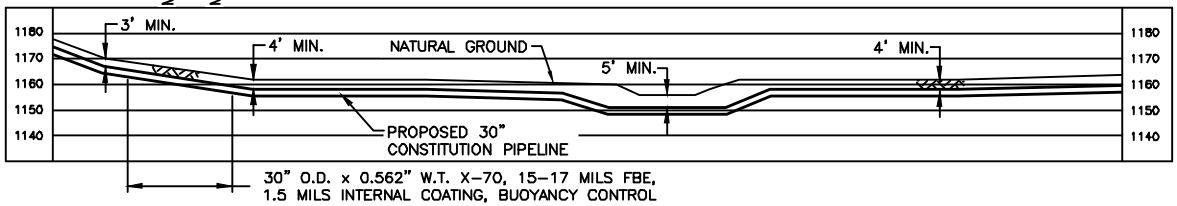
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY); OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1B-W057	PEM	8			0.02			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-31	ALIGNMENT SHEET
26-26-70/0001-32	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-19-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
1	09-19-13	GIE	ISSUE FOR USE	1110415		
2	10-25-13	GIE	ISSUE FOR USE	1110415		
3	10-29-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-30-13	GIE	ISSUE FOR USE	1110415		

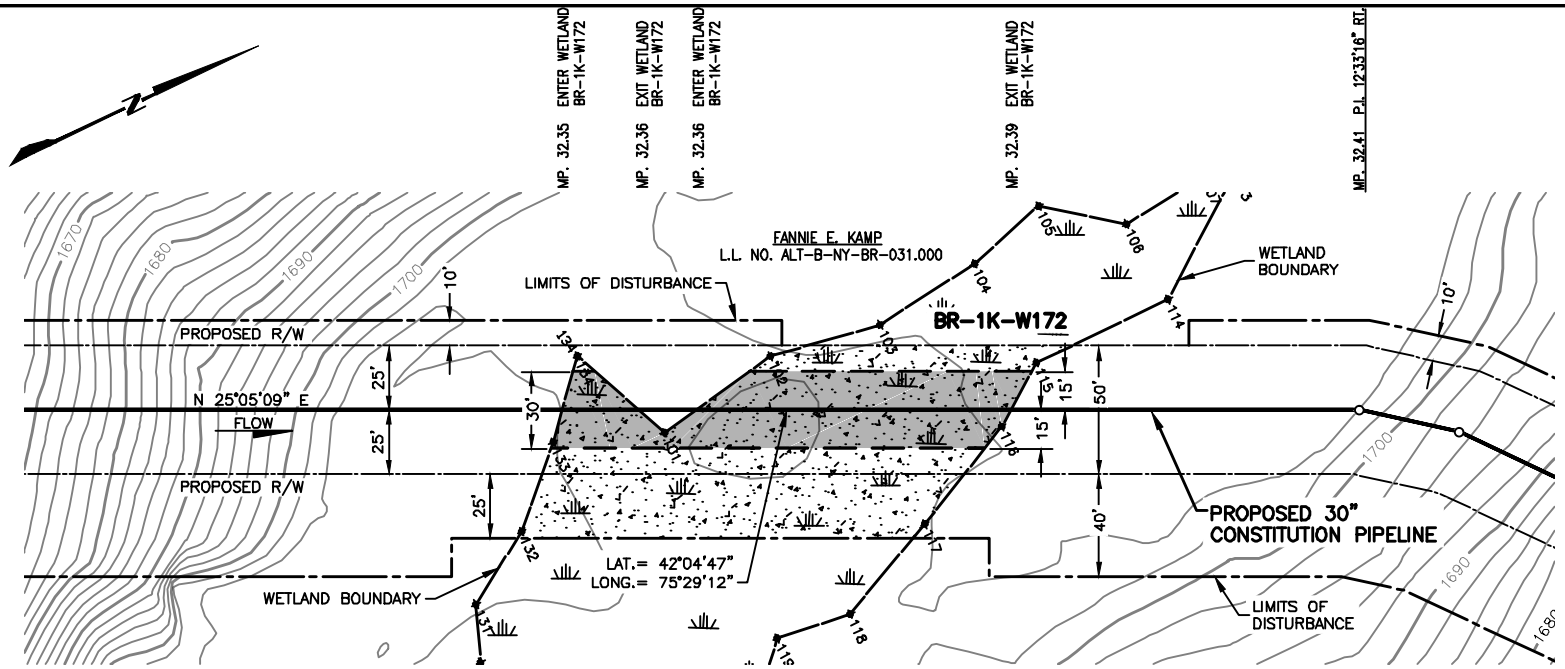
APPLICATION NO.: NAN-2012-00449-UBR

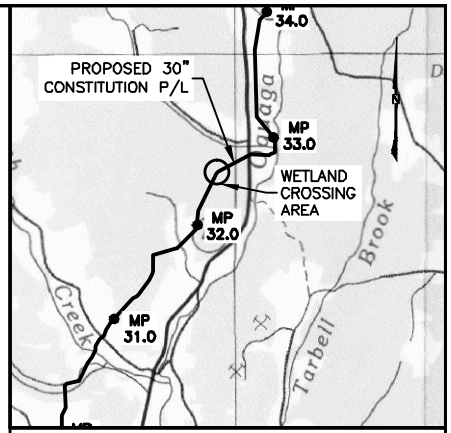
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1B-W057 @ M.P. 30.55
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-08-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1B-W057-2-4	SHEET 93 OF 362
WO: 1110415			



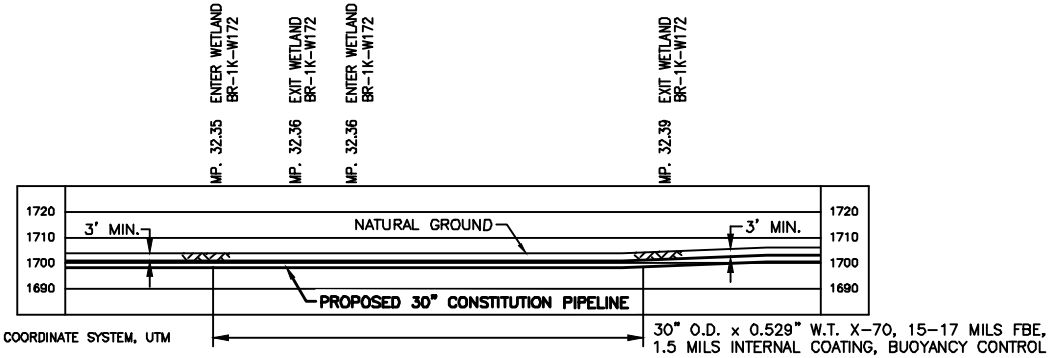


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

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   CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY);
   OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1K-W172	PFO	153	0.26			0.10		N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-33	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-10-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	ISSUE FOR USE	1110415		

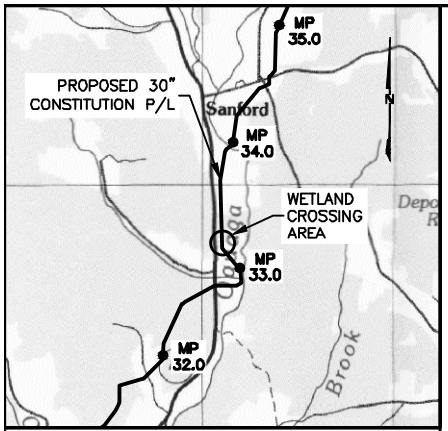
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1K-W172 @ M.P. 32.35
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-11-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1K-W172-1-2	SHEET 94 OF 362
WO: 1110415			

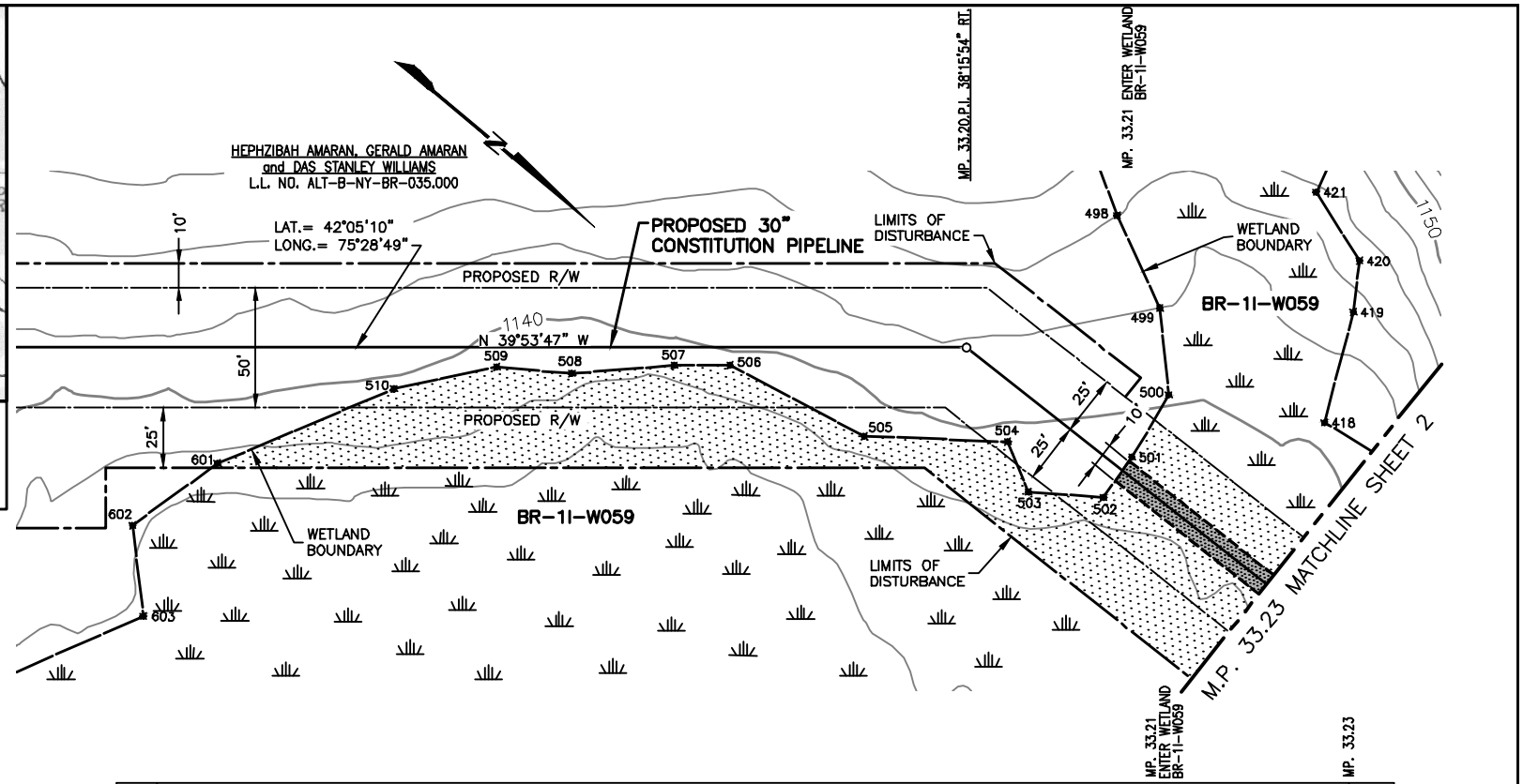


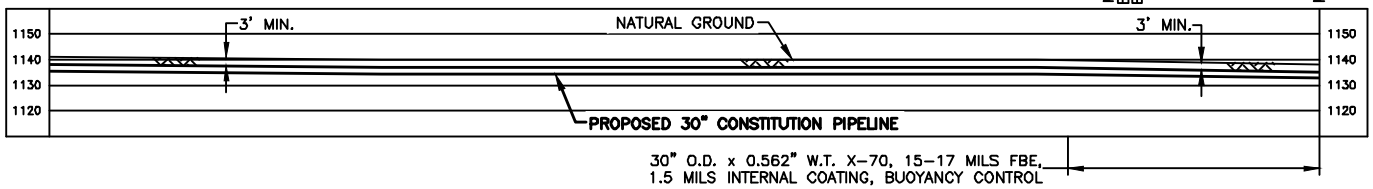
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1I-W059	PSS	72		0.37			0.02	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-34	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-07-13	GIE	ISSUED - FOR CLIENT REVIEW	1110415		
B	10-25-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	10-30-13	GIE	ISSUE FOR USE	1110415		

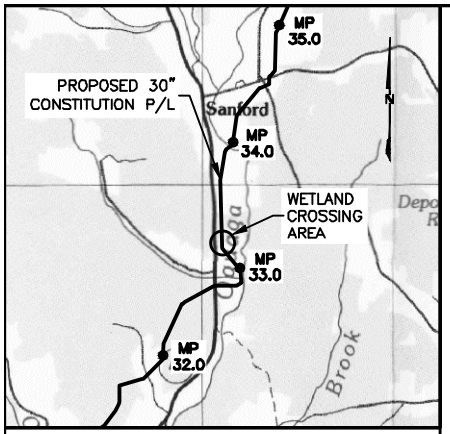
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W059 @ M.P. 33.21
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-07-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W059-1-0	SHEET 95 OF 362
WO: 1110415			

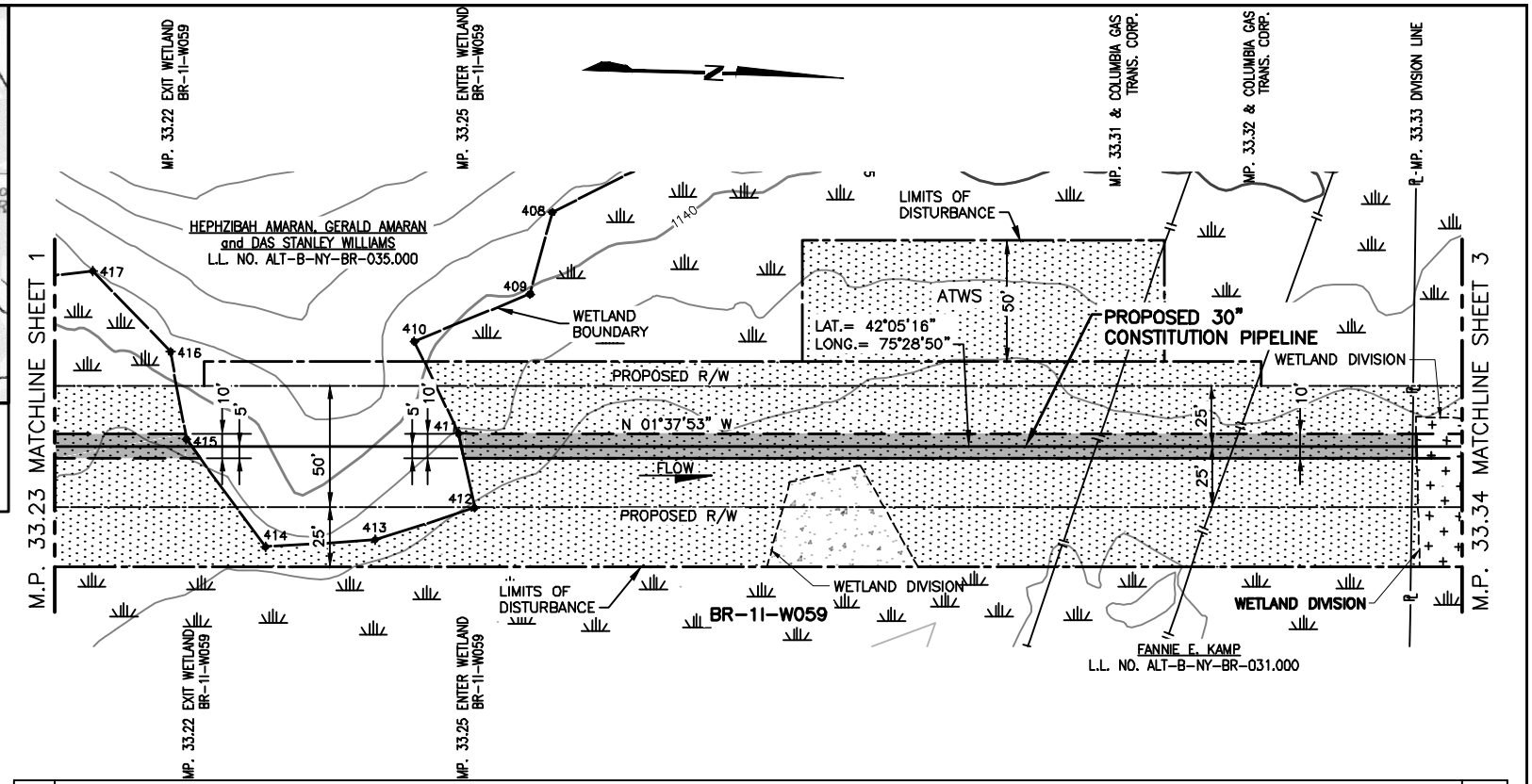


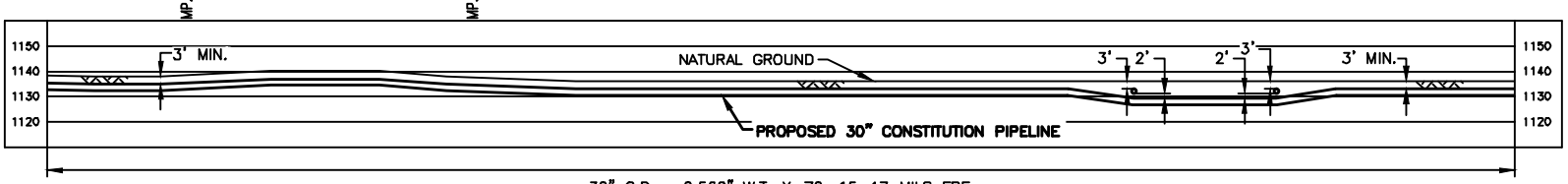
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE,
1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1I-W059	PFO/PSS /PEM	637	0.04	1.08	0.22		0.15	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-34	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
D	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-10-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-30-13	GIE	ISSUE FOR USE	1110415		

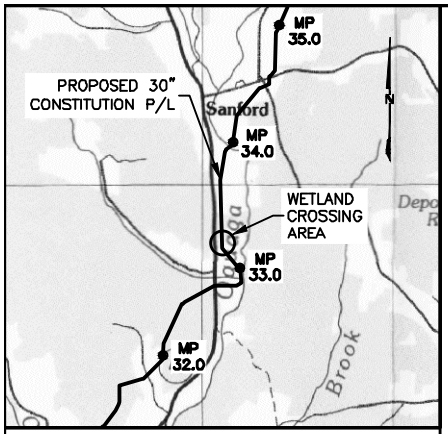
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W059 @ M.P. 33.21
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 07-23-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W059-2-4	SHEET 96 OF 362
WO: 1110415			

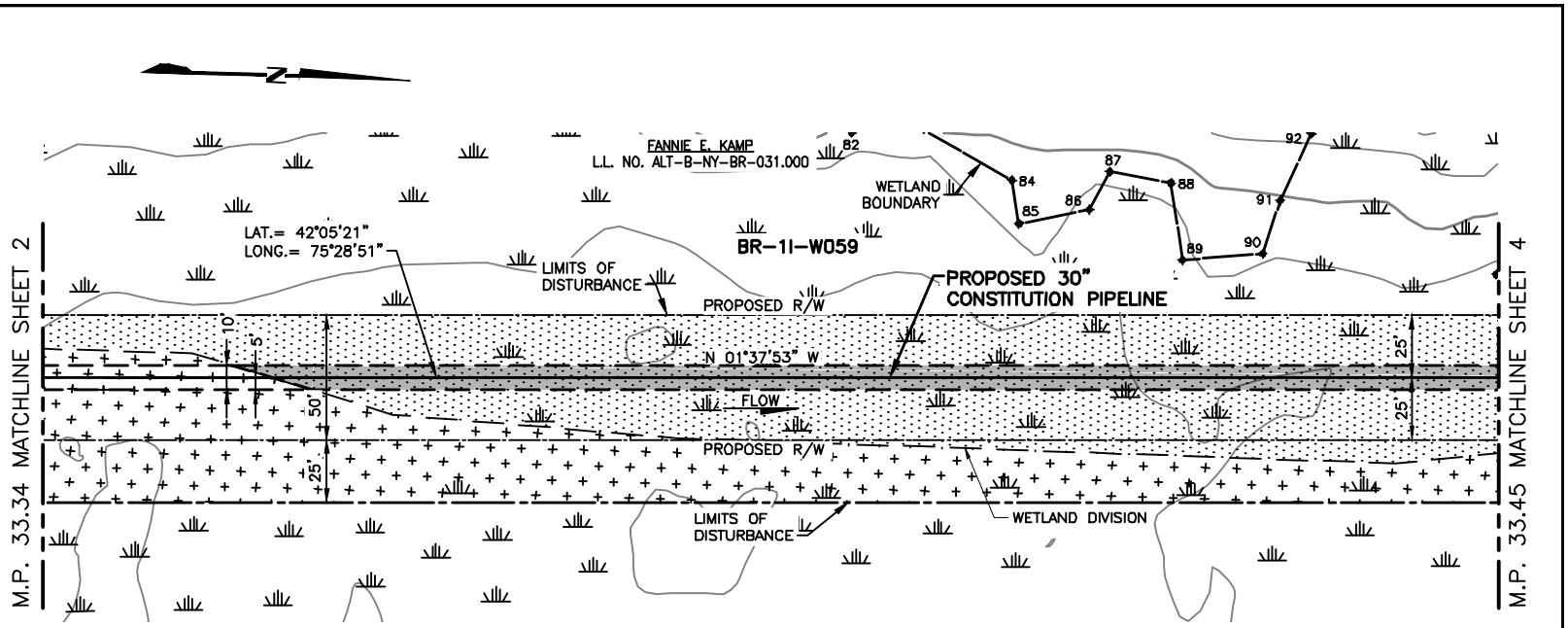


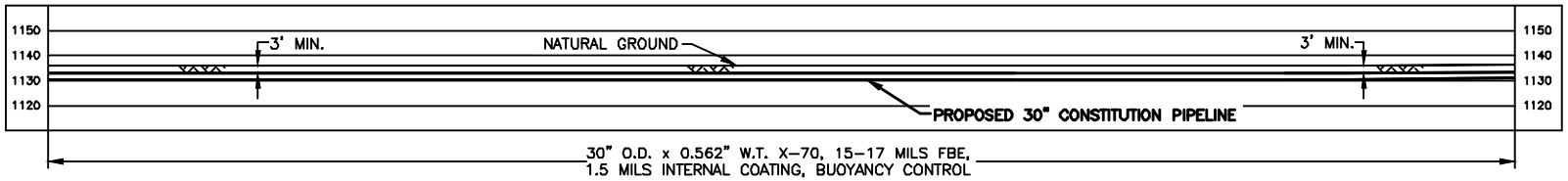
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





NOTES:

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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1I-W059	PSS/PEM	749		.81	0.42		0.16	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-34	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-10-13	GIE	ISSUE FOR CLIENT REVIEW	1110415		
B	10-25-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	10-30-13	GIE	ISSUE FOR USE	1110415		

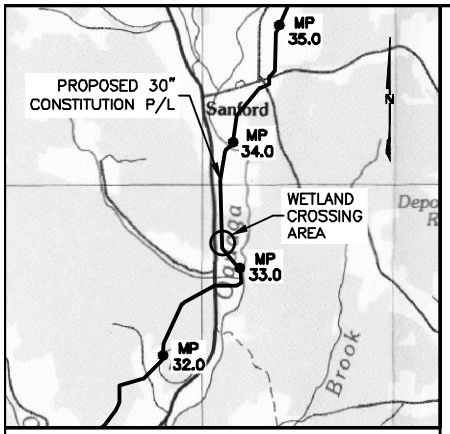
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W059 @ M.P. 33.21
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-10-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W059-3-0	SHEET 97 OF 362
WO: 1110415			

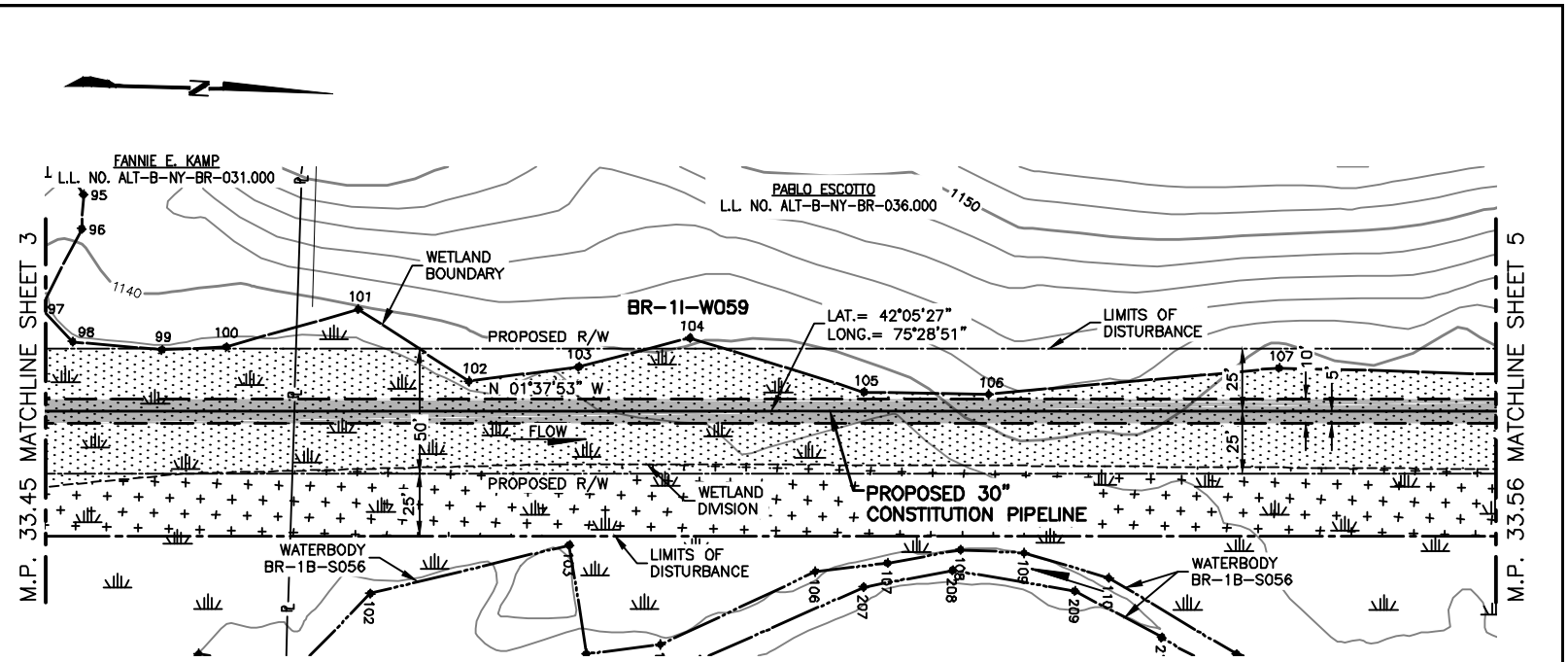


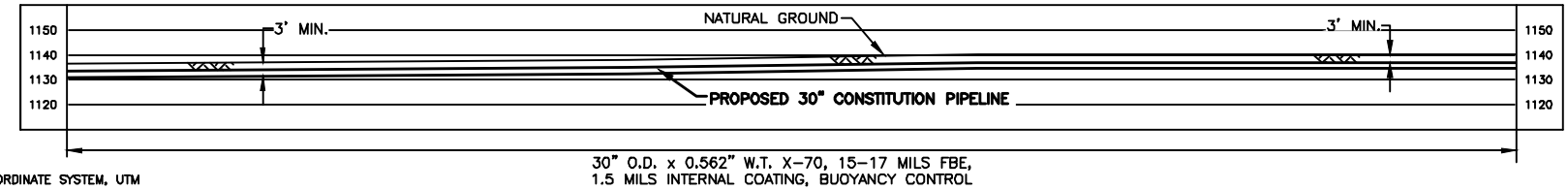
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





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   CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY);
   OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1I-W059	PSS/PEM	448		0.32	0.29		0.08	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-34	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-10-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-30-13	GIE	ISSUE FOR USE	1110415		

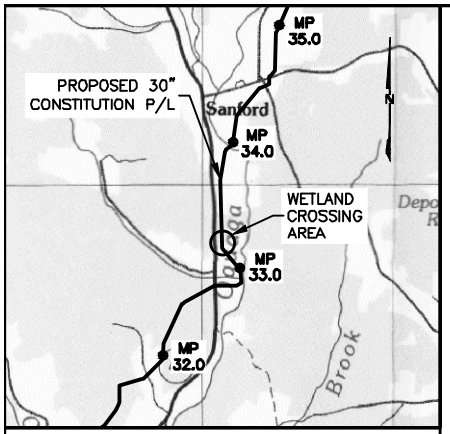
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W059 @ M.P. 33.21
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 07-23-2013	ISSUED FOR BID:	SCALE: 1"=80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W059-4-4	SHEET 98 OF 362
WO: 1110415			

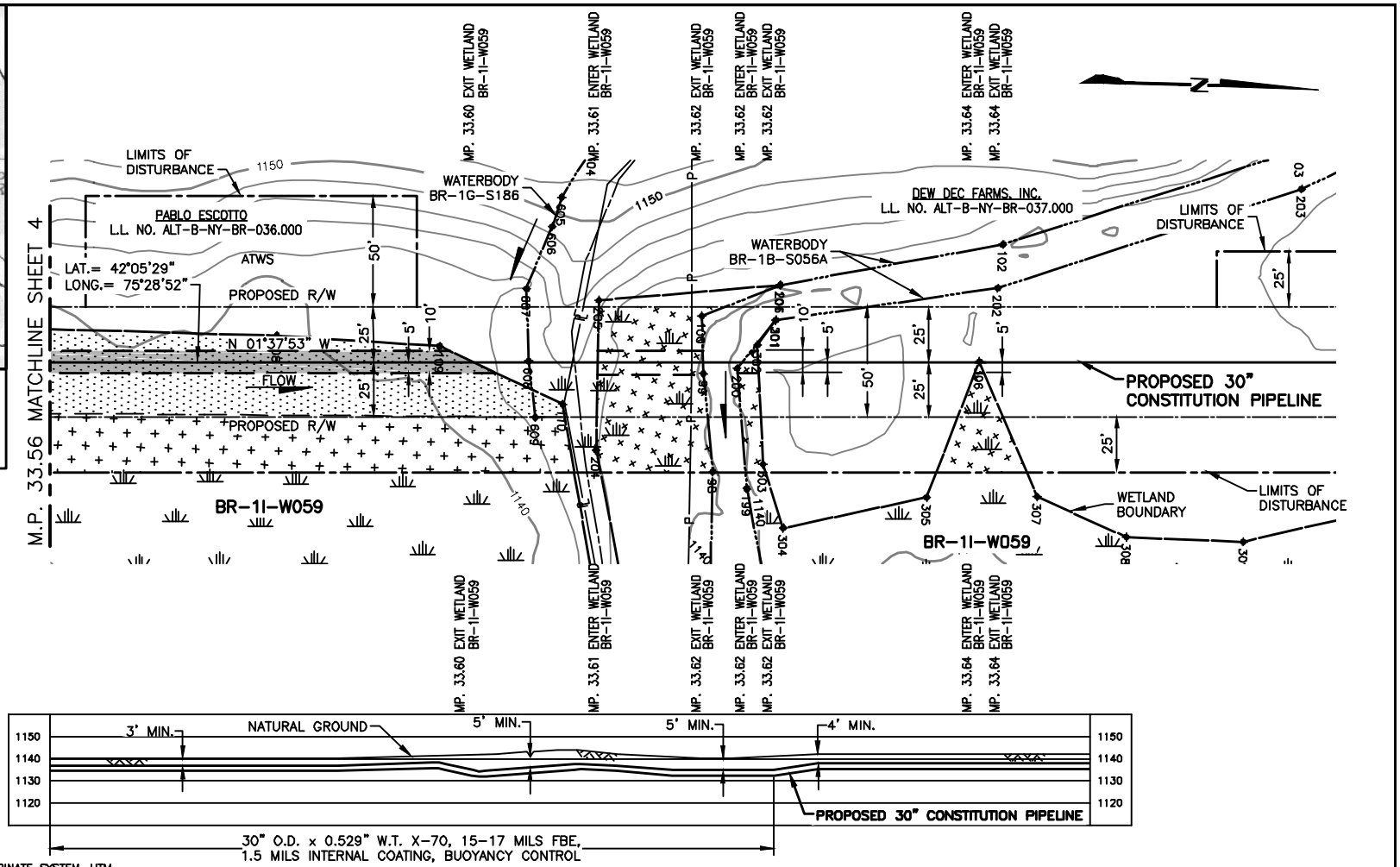


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
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   OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1I-W059	PEM	55			0.13			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-35	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-10-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-08-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-30-13	GIE	ISSUE FOR USE	1110415		

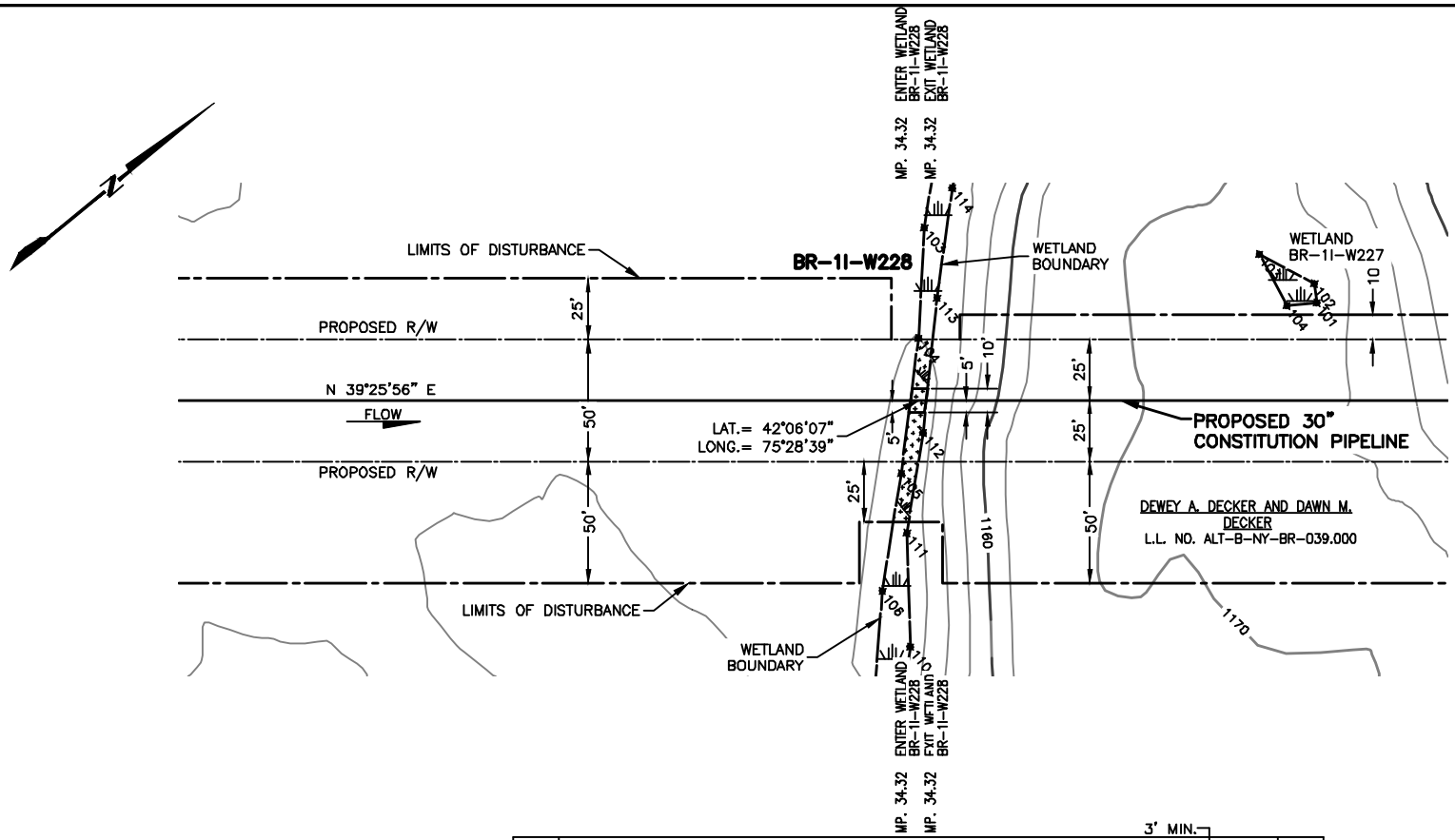
APPLICATION NO.: NAN-2012-00449-UBR

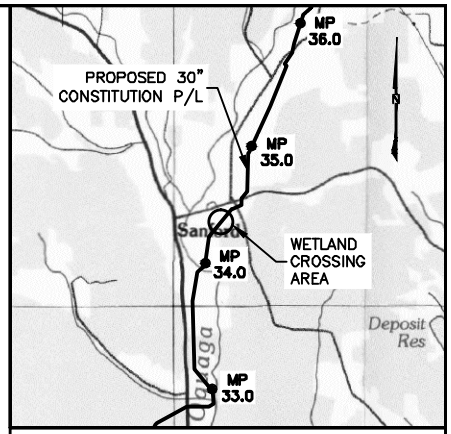
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W059 @ M.P. 33.21
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 07-23-2013	ISSUED FOR BID:	SCALE: 1"=80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W059-5-4	SHEET 99 OF 362
WO: 1110415			



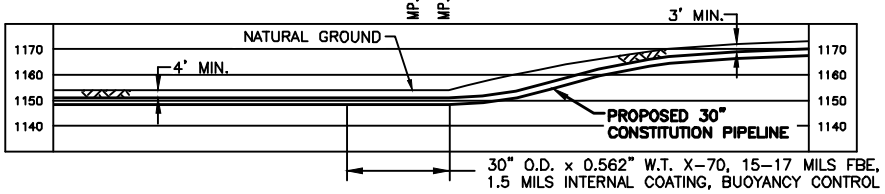


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY); OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1I-W228	PEM	6			0.01			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-35	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT COMMENT	1110415		
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-12-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-06-13	GIE	ISSUE FOR USE	1110415		

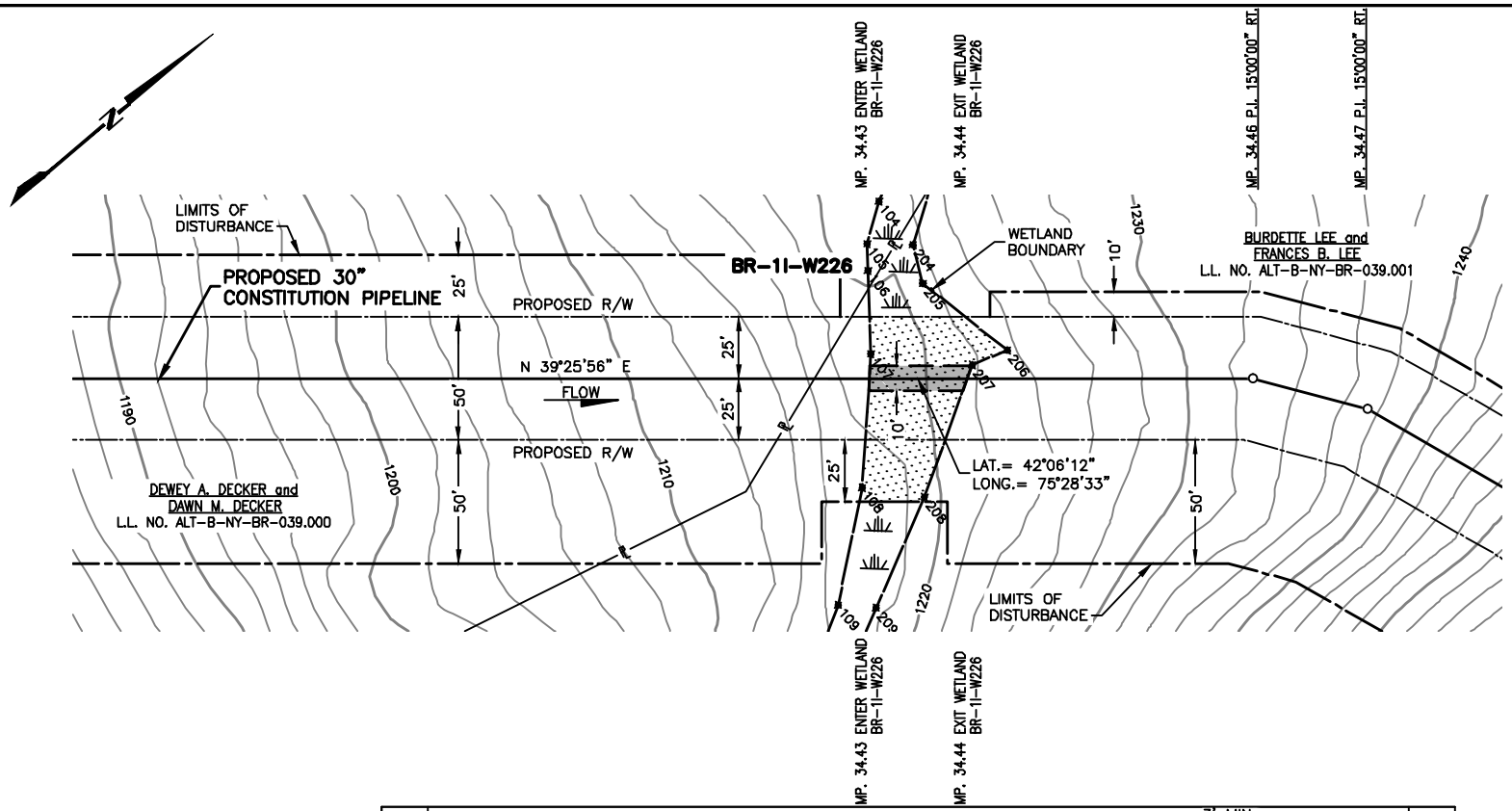
APPLICATION NO.: NAN-2012-00449-UBR

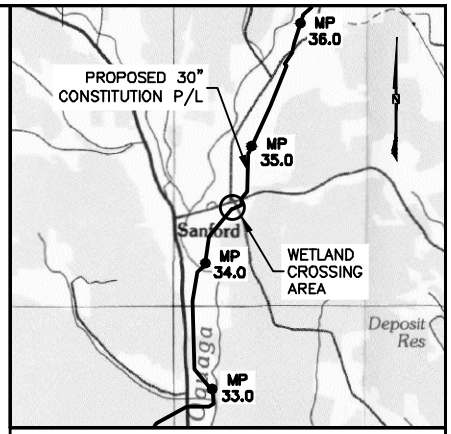
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W228 @ M.P. 34.32
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-11-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W228-1-2	SHEET 100 OF 362
WO: 1110415			



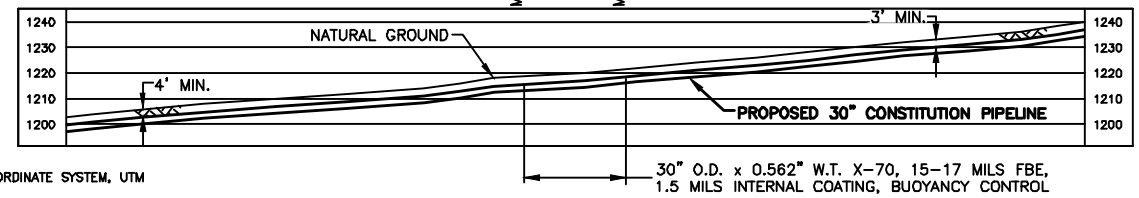


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1I-W226	PSS	40		0.06			0.01	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-35	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-13-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
C	08-17-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	08-21-13	GIE	ISSUE FOR USE	1110415		
1	09-12-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-06-13	GIE	ISSUE FOR USE	1110415		

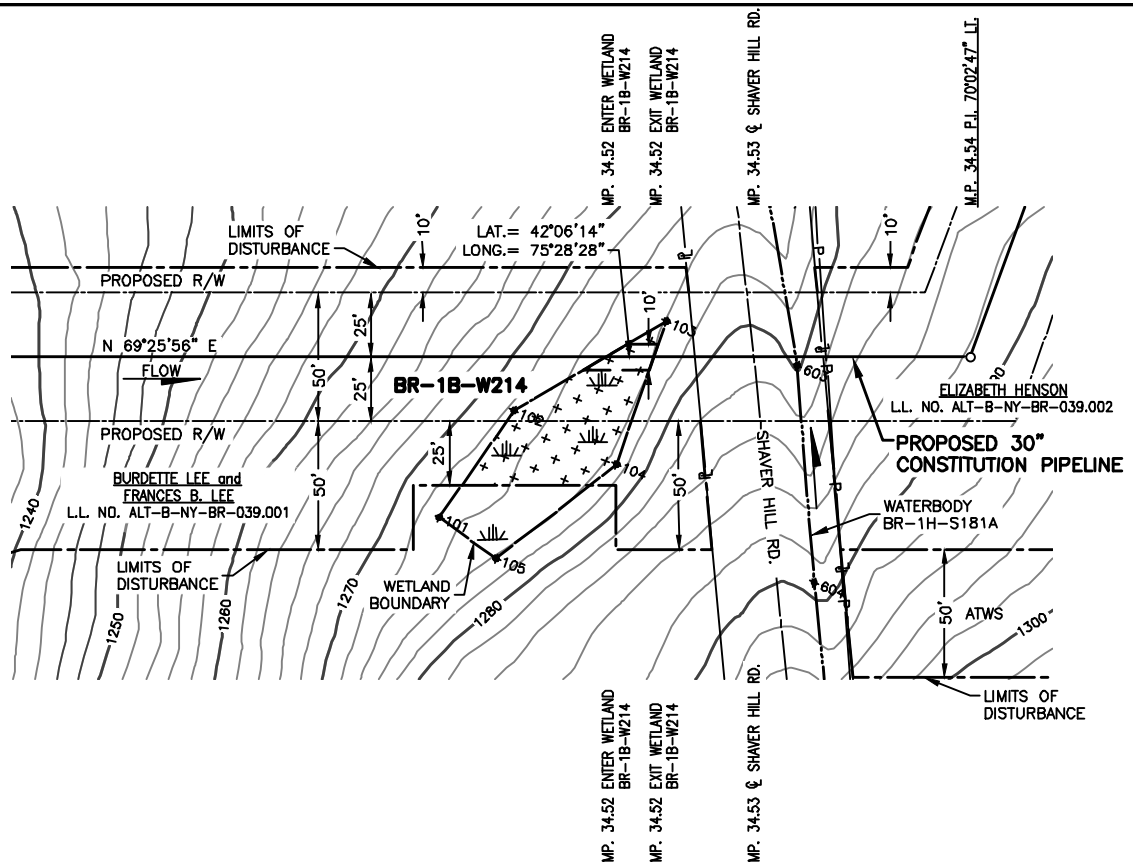
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

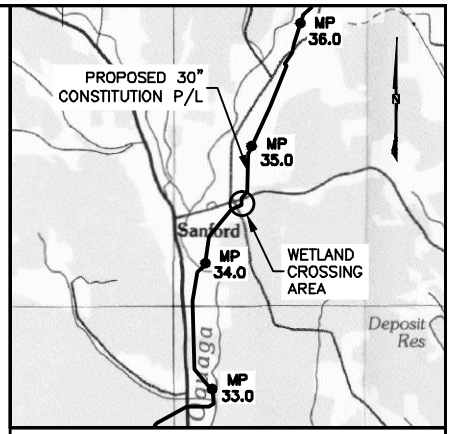
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W226 @ M.P. 34.43
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 07-23-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W226-1-2	SHEET 101 OF 362
WO: 1110415			



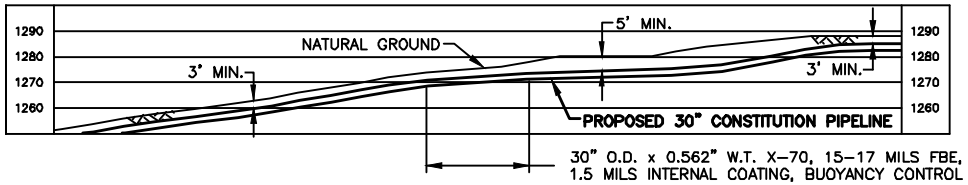


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1B-W214	PEM	19			0.05			N/A	N	Conventional, Conventional Bore

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-35	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-08-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-17-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-12-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-11-13	GIE	ISSUE FOR USE	1110415		

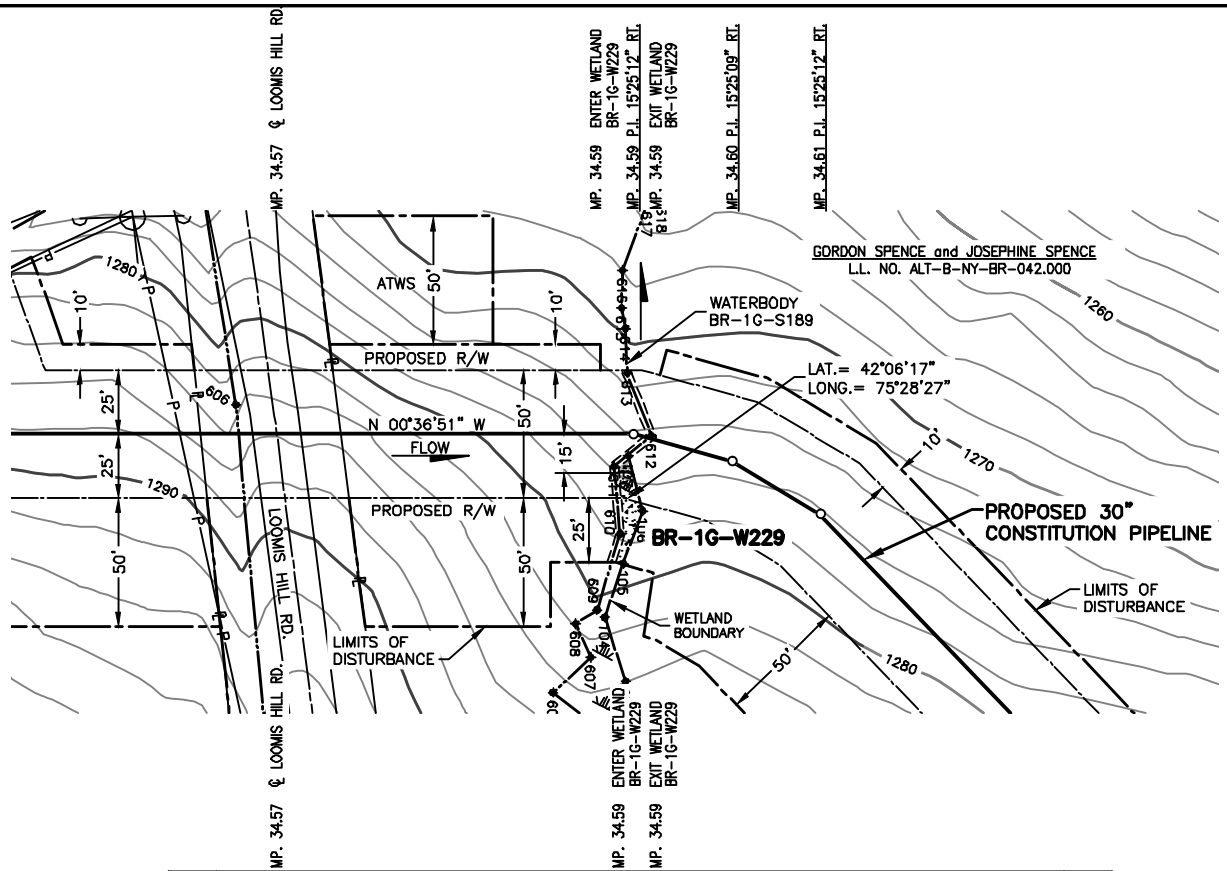
APPLICATION NO.: NAN-2012-00449-UBR

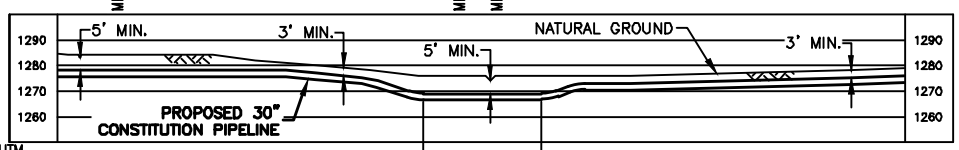
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1B-W214 @ M.P. 34.52
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 07-23-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1B-W214-1-2	SHEET 102 OF 362
WO: 1110415			





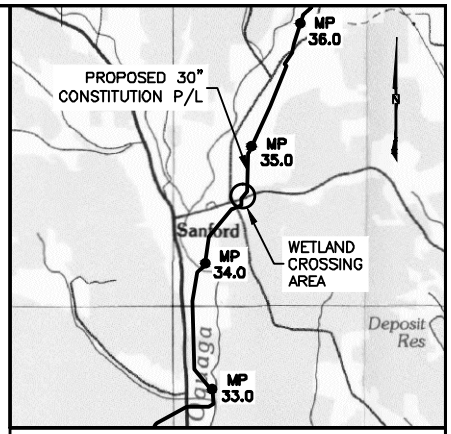
30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL



VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1G-W229	PFO	0	0.01			0.01		N/A	N	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-36	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-15-13	GIE	REVISED - ISSUED FOR CLIENT APPROVAL	1110415		
0	08-18-13	GIE	ISSUE FOR USE	1110415		
1	09-30-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-19-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

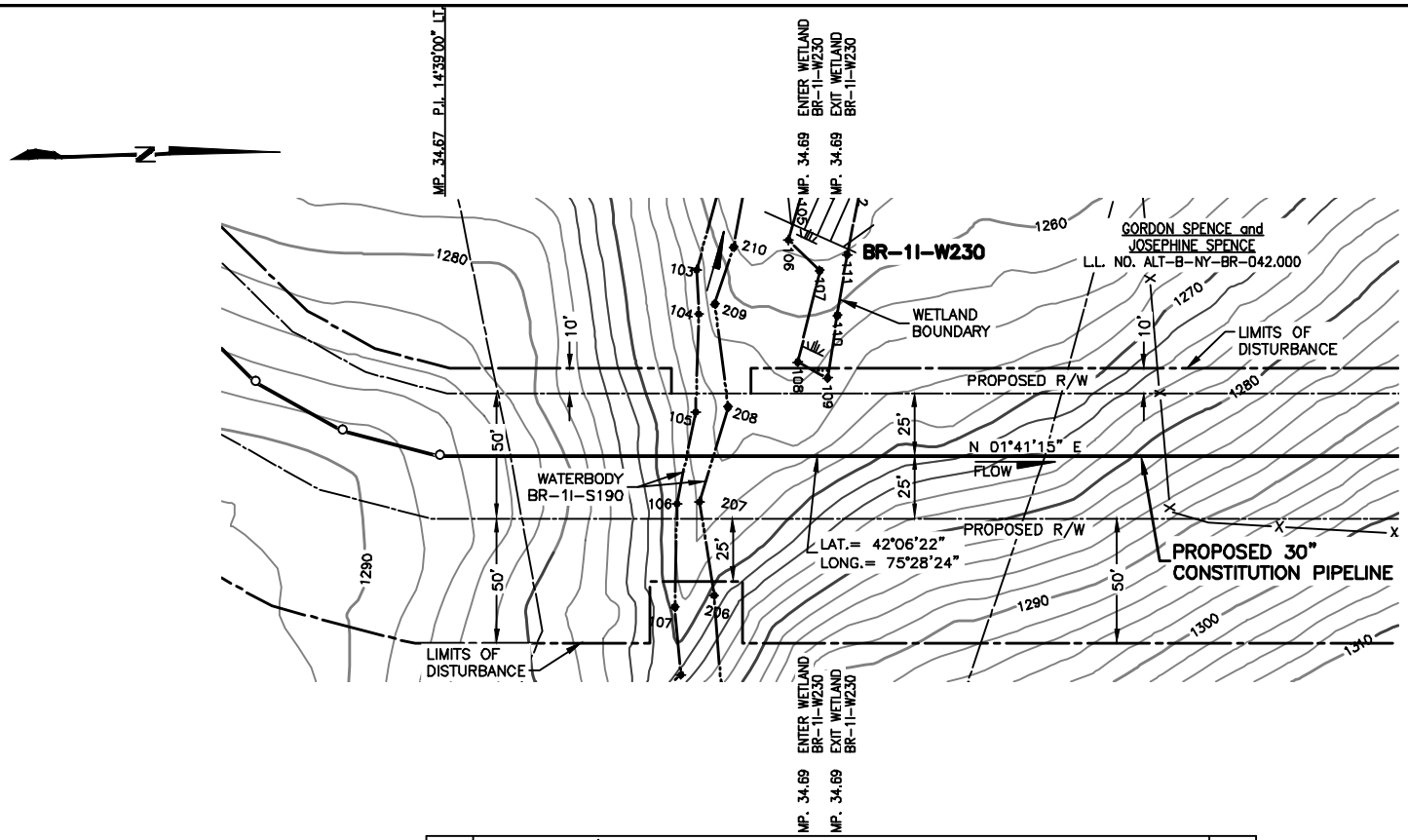
APPLICATION NO.: NAN-2012-00449-UBR

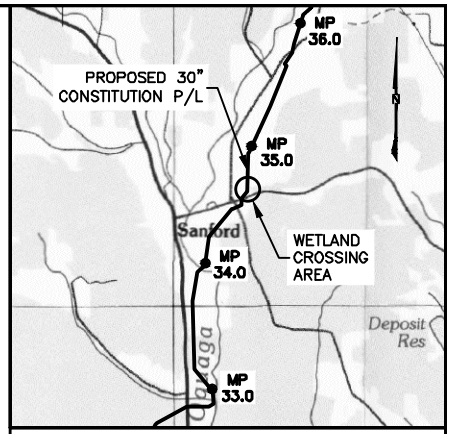
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1G-W229 @ M.P. 34.59
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-14-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1G-W229-1-3	SHEET 103 OF 362
WO: 1110415			



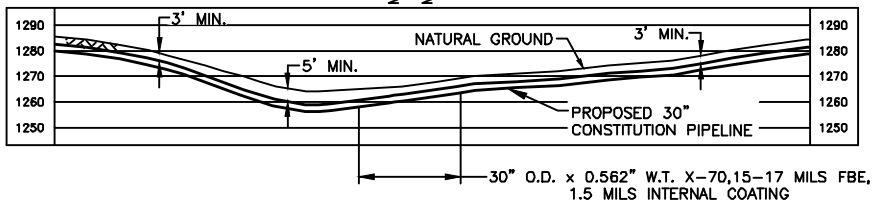


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY); OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1I-W230	PEM	0			0.01			N/A	N	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-36	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-18-13	GIE	ISSUED FOR USE	1110415		
1	09-13-12	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-10-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-23-13	GIE	ISSUED FOR USE	1110415		

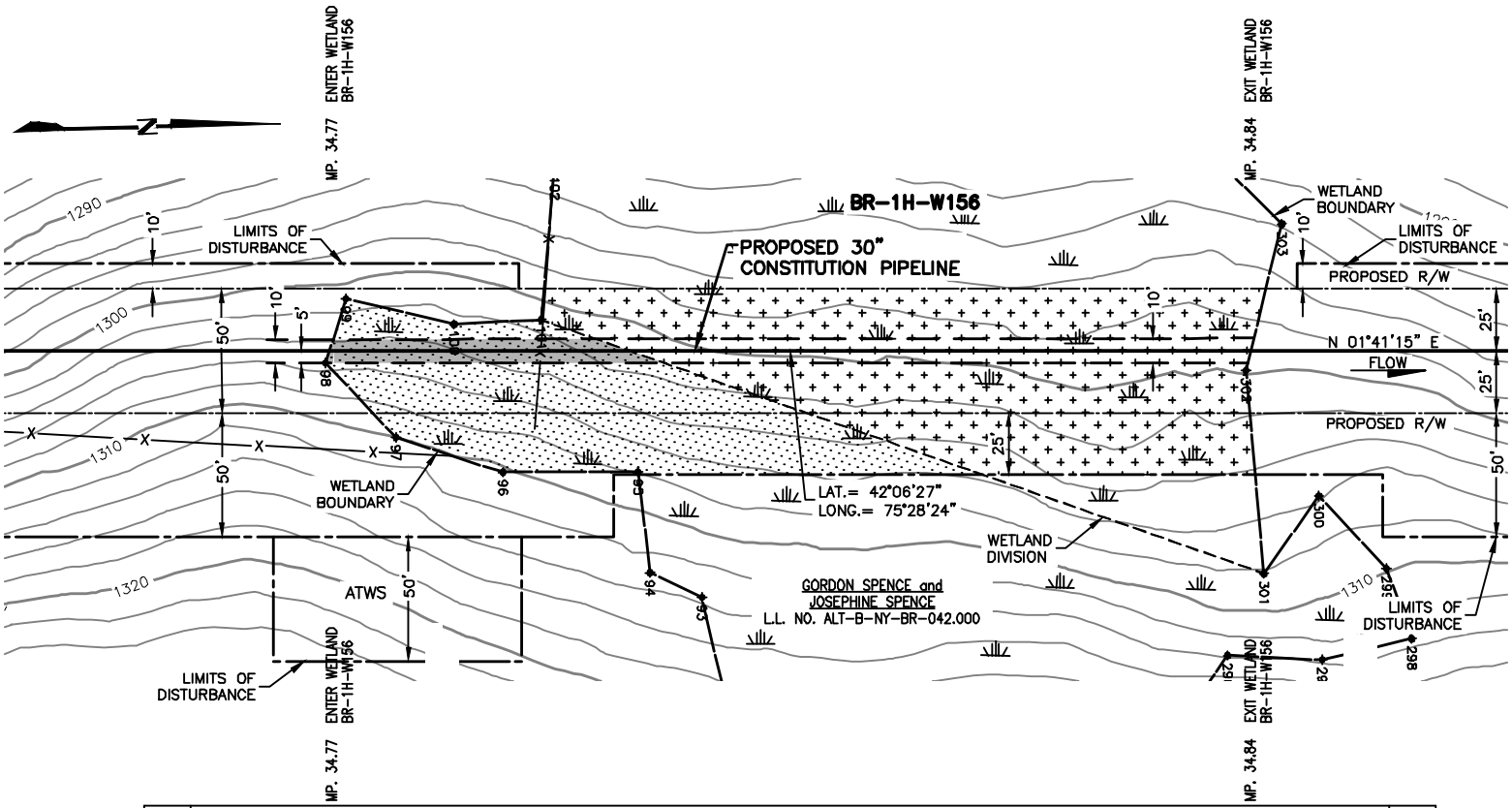
APPLICATION NO.: NAN-2012-00449-UBR

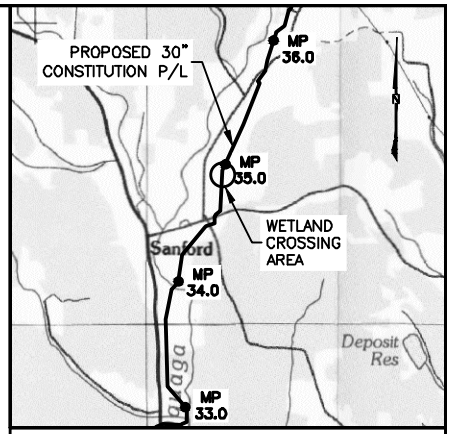
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W230 @ M.P. 34.69
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-15-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W230-1-3	SHEET 104 OF 362
WO: 1110415			



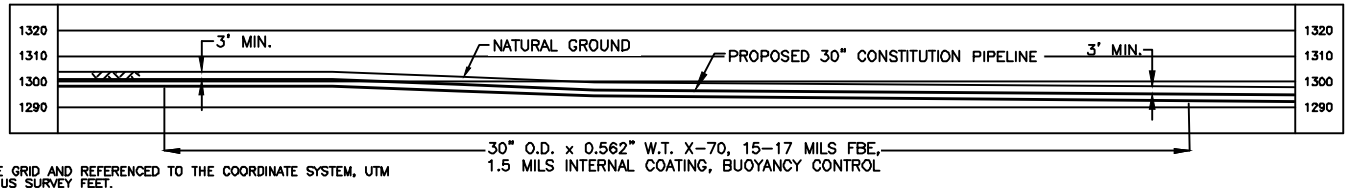


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY); OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1H-W156	PSS/PEM	372		0.22	0.37		0.03	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-36	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-13-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-19-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

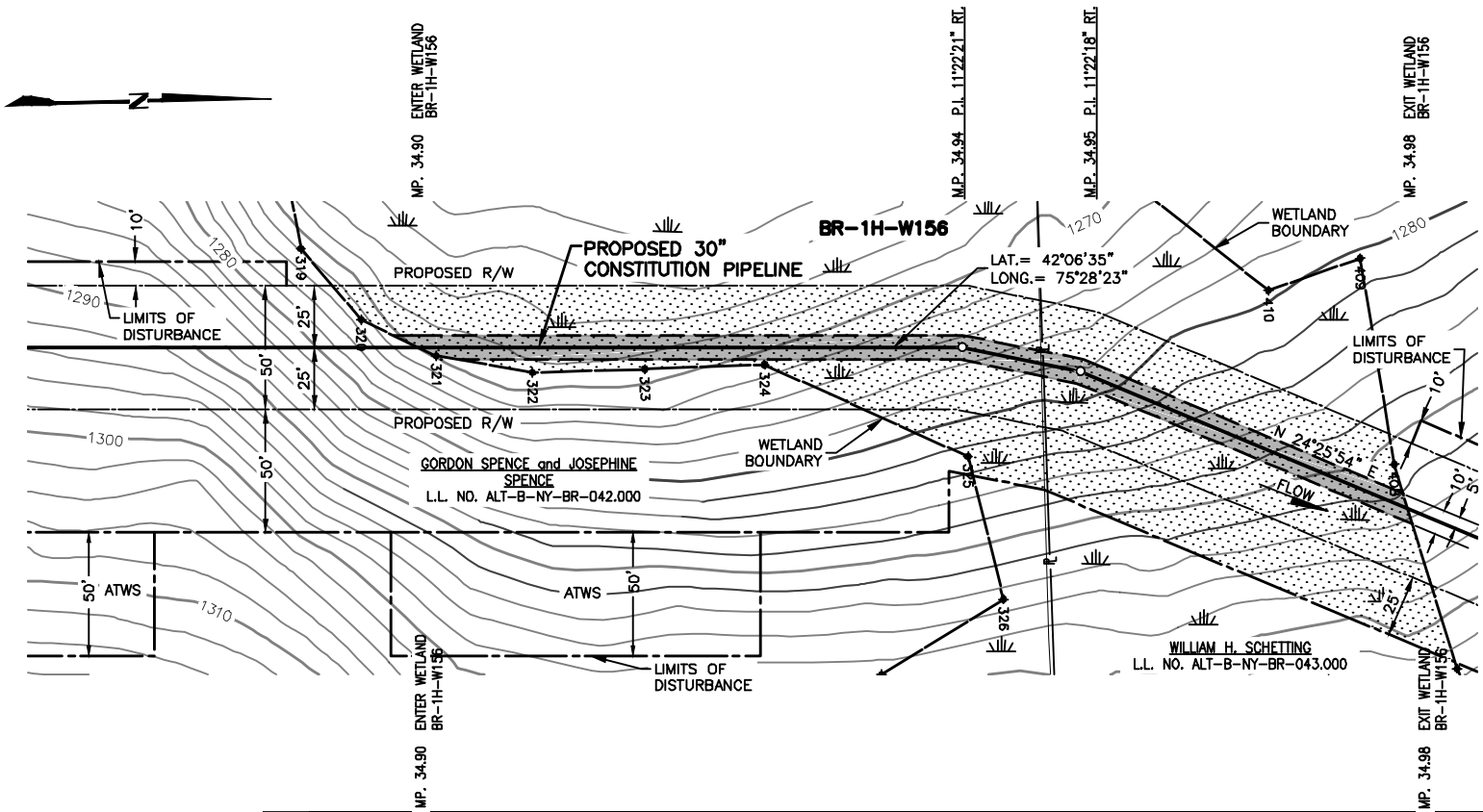
APPLICATION NO.: NAN-2012-00449-UBR

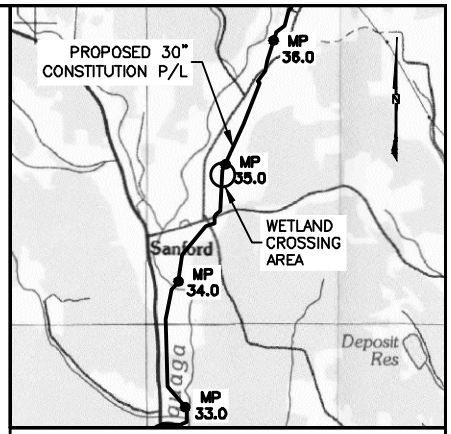
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1H-W156 @ M.P. 34.77
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-15-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1H-W156-1-3	SHEET 105 OF 362
WO: 1110415			



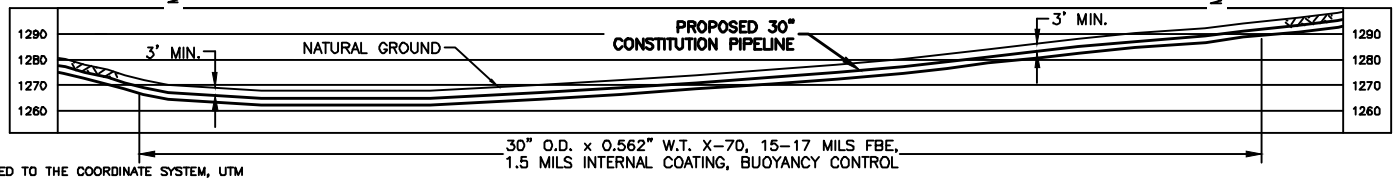


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1H-W156	PSS	413		0.55			0.09	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-36	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-13-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-13-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

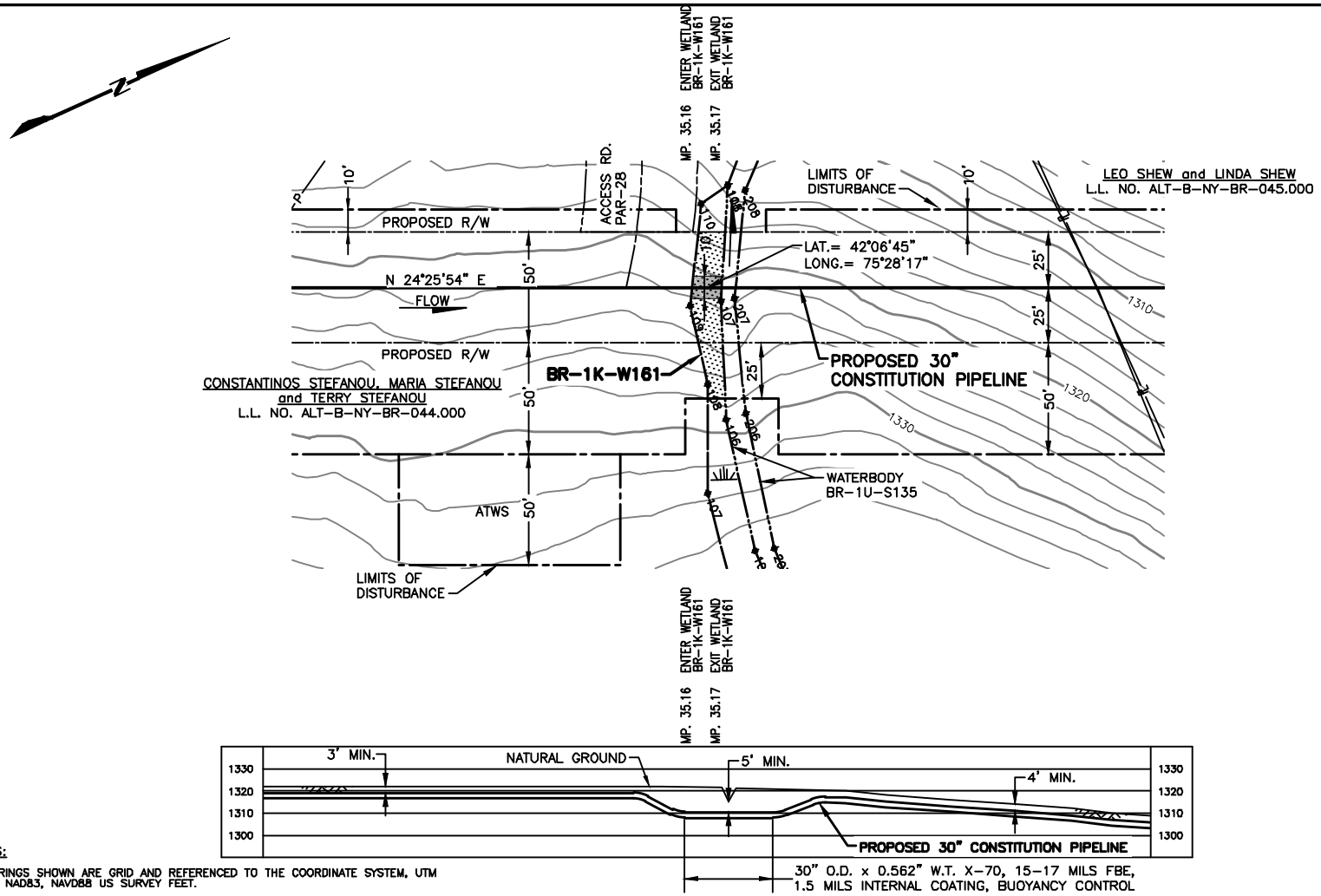
APPLICATION NO.: NAN-2012-00449-UBR

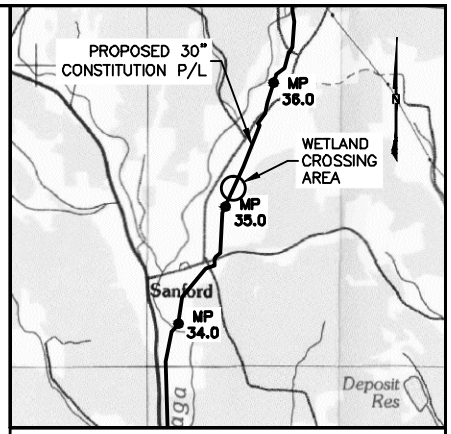
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1H-W156 @ M.P. 34.77
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-15-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1H-W156-2-3	SHEET 106 OF 362
WO: 1110415			





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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1K-W161	PSS	13		0.02			0.01	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160
SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-36	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-14-13	GIE	REVISED - ISSUED FOR CLIENT REVEIW	1110415		
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-13-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-23-13	GIE	ISSUED FOR USE	1110415		

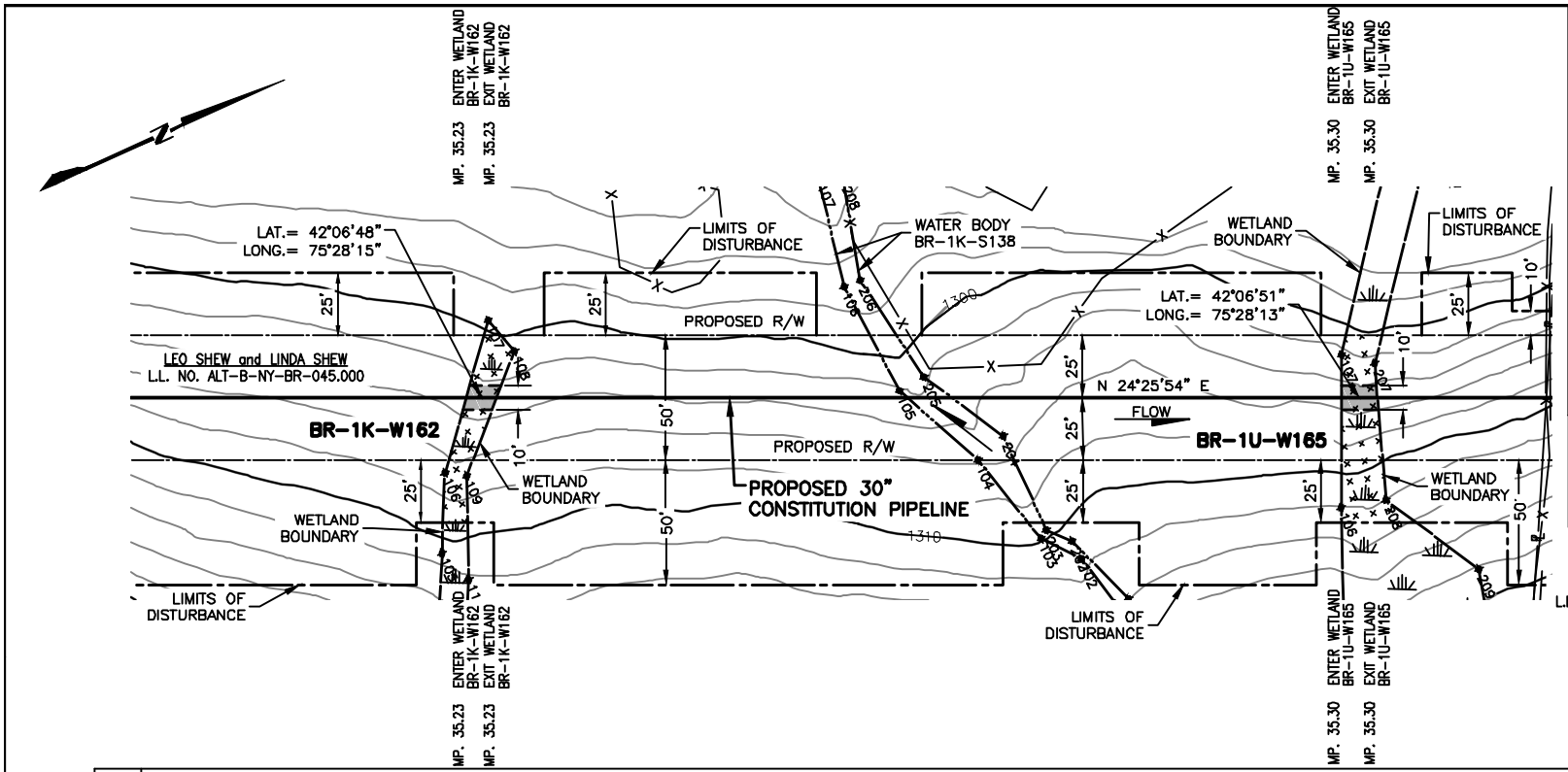
APPLICATION NO.: NAN-2012-00449-UBR

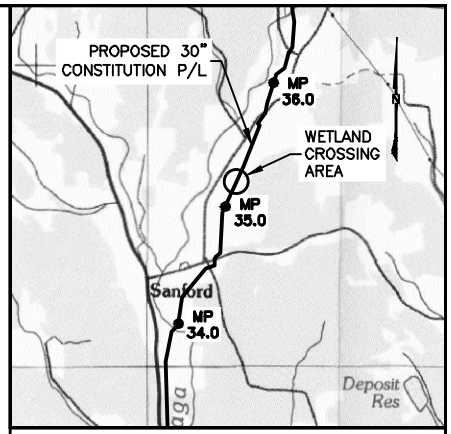
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1K-W161 @ M.P. 35.16
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 07-26-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1K-W161-1-3	SHEET 107 OF 362
WO: 1110415			



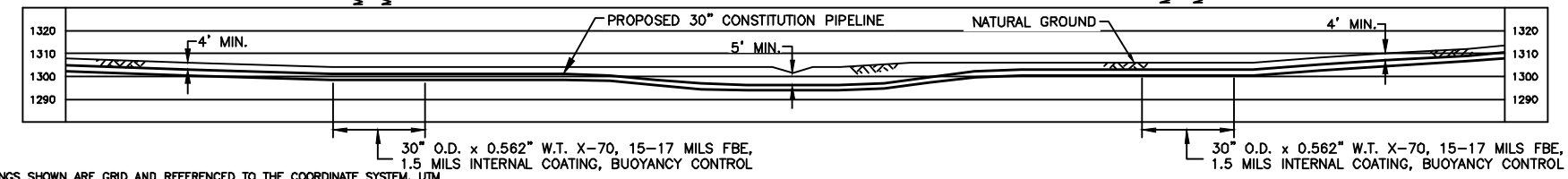


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

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4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
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   CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY);
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1K-W162	PEM	12			0.02			N/A	N	Conventional
BR-1U-W165	PEM	15			0.03			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-36	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-14-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

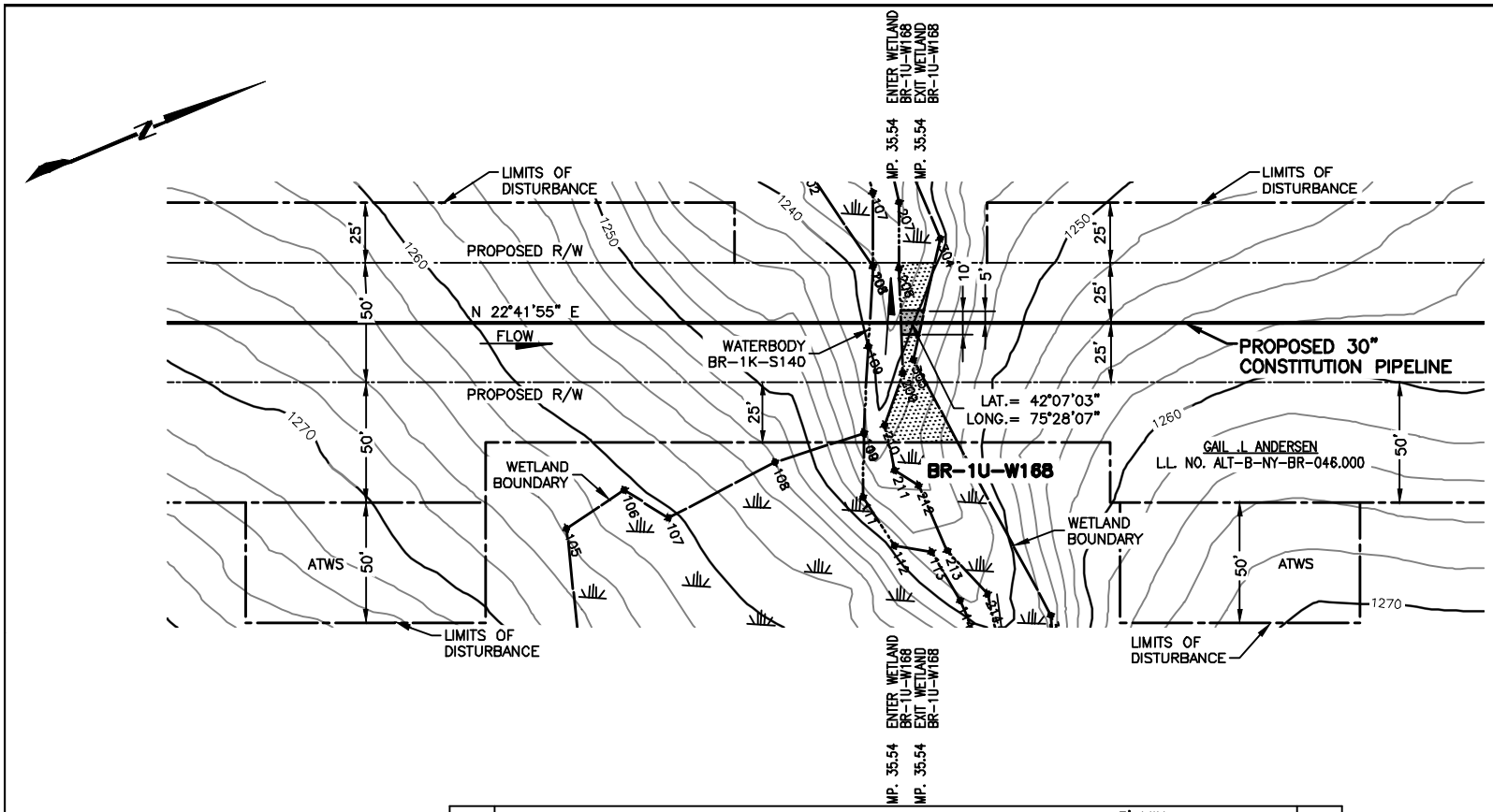
APPLICATION NO.: NAN-2012-00449-UBR

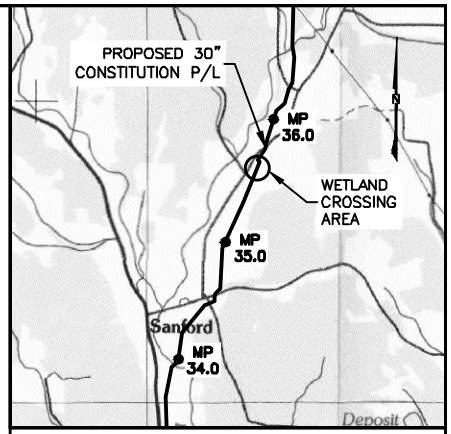
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSINGS BR-1K-W162 AND
BR-1U-W165 @ M.P. 35.23
TOWN OF SANFORD BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-16-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1K-W162-1-3	SHEET 108 OF 362
WO: 1110415			



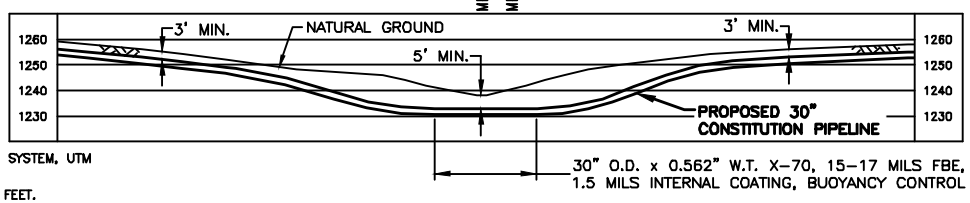


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1U-W168	PSS	8		0.02			0.01	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-37	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-15-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-17-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUED FOR USE	1110415		
1	09-14-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-08-13	GIE	ISSUED FOR USE	1110415		

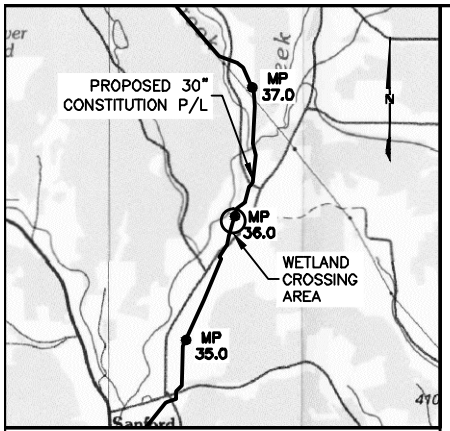
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1U-W168 @ M.P. 35.54
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-16-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1U-W168-1-2	SHEET 109 OF 362
WO: 1110415			

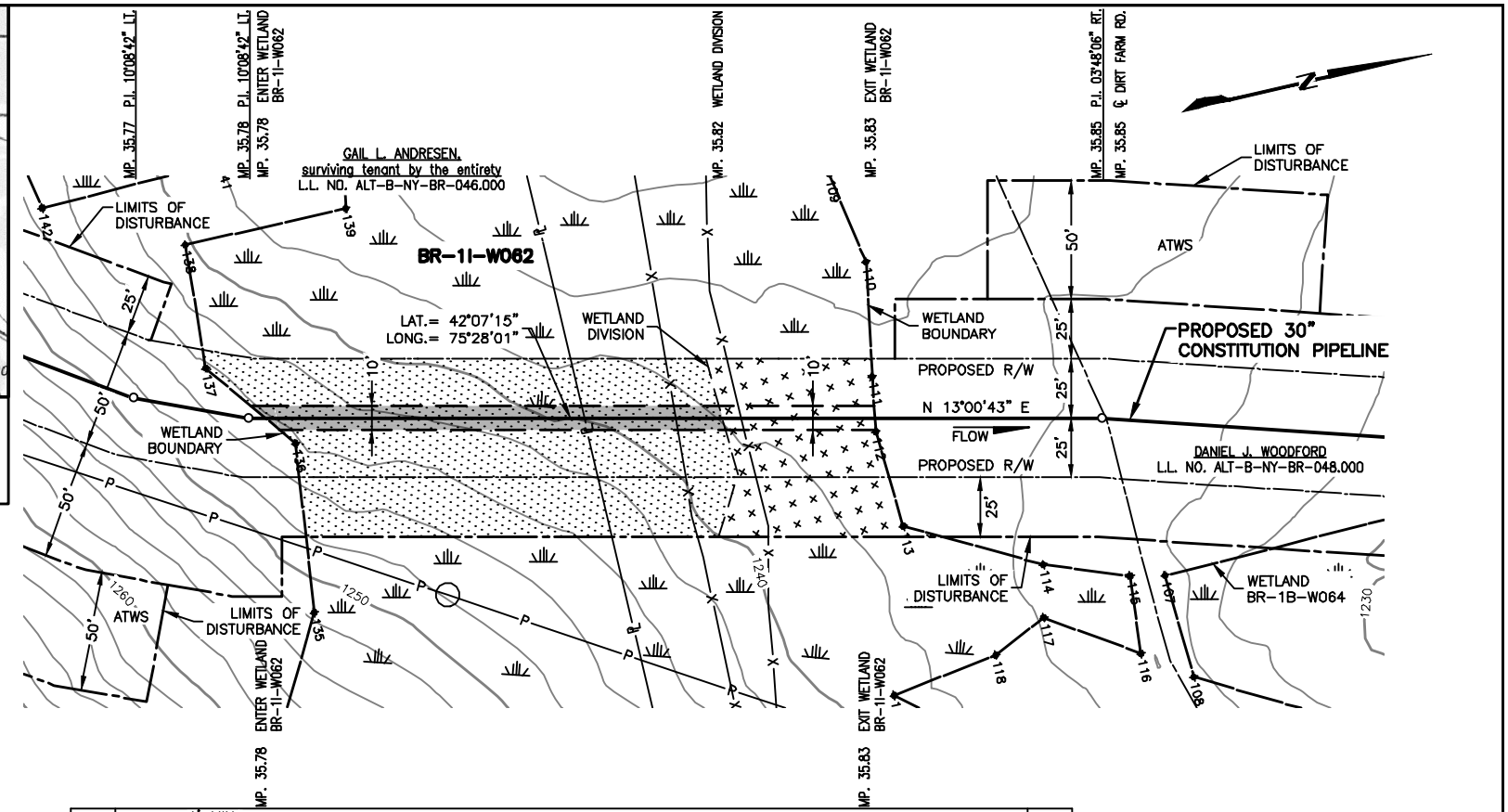


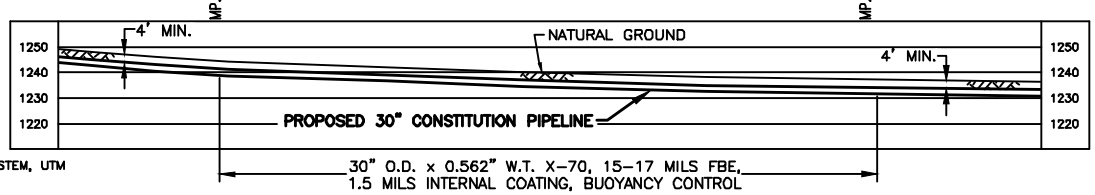
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
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5. WETLAND DELINEATION COMPLETED BY AECOM.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1I-W062	PSS/PEM	256		0.33	0.12		0.04	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-37	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-20-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-21-13	GIE	ISSUE FOR USE	1110415		
1	09-16-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-10-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-29-13	GIE	ISSUE FOR USE	1110415		

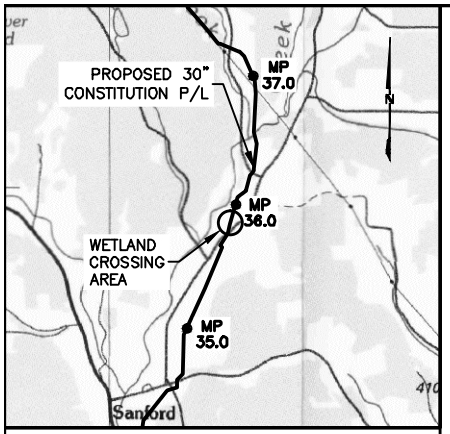
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W062 @ M.P. 35.78
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-17-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W062-1-3	SHEET 110 OF 362
WO: 1110415			

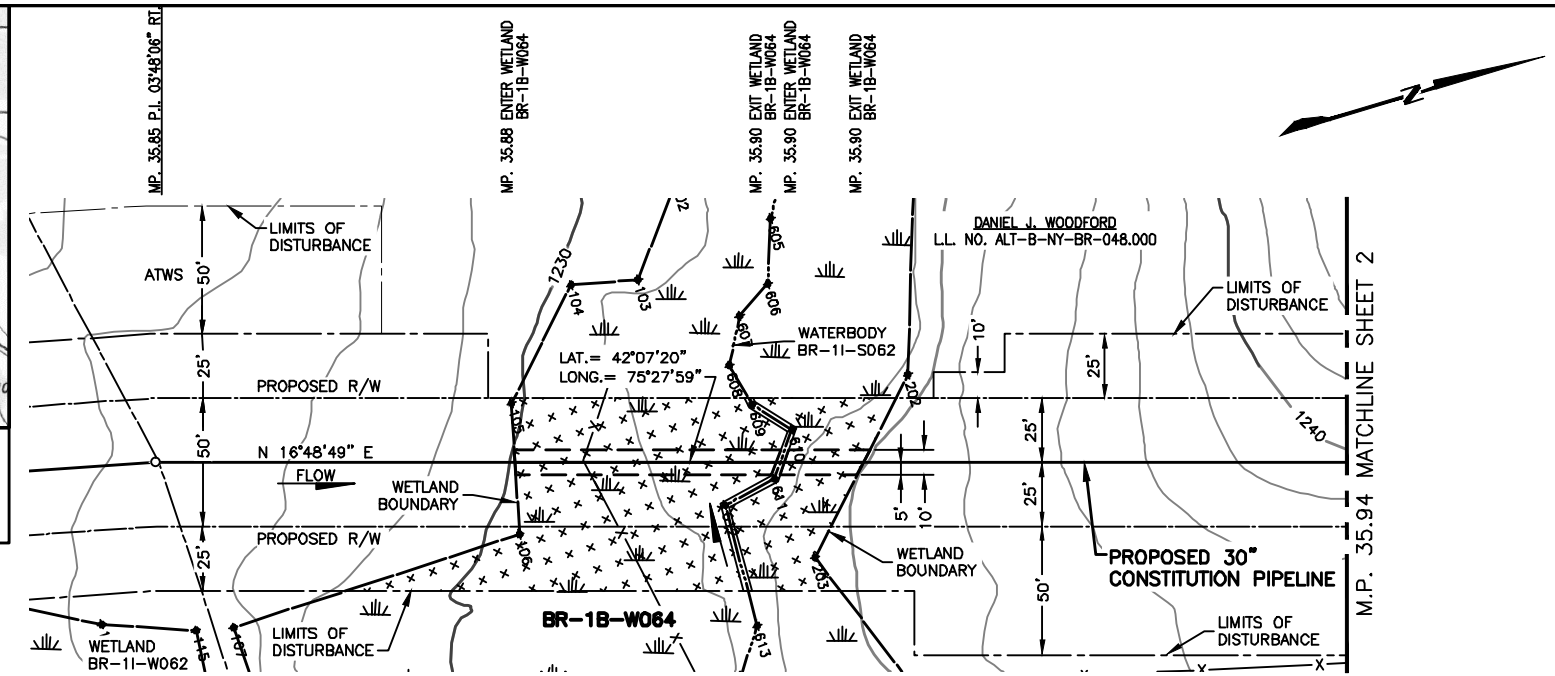


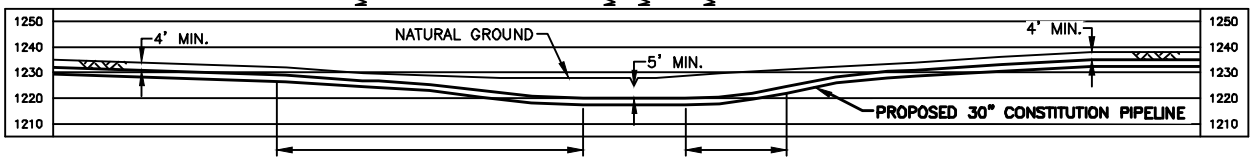
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE,
1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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   CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY);
   OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1B-W064	PEM/PSS	133			0.23			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-37	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-20-13	GIE	ISSUE FOR USE	1110415		
1	09-20-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-21-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-29-13	GIE	ISSUE FOR USE	1110415		

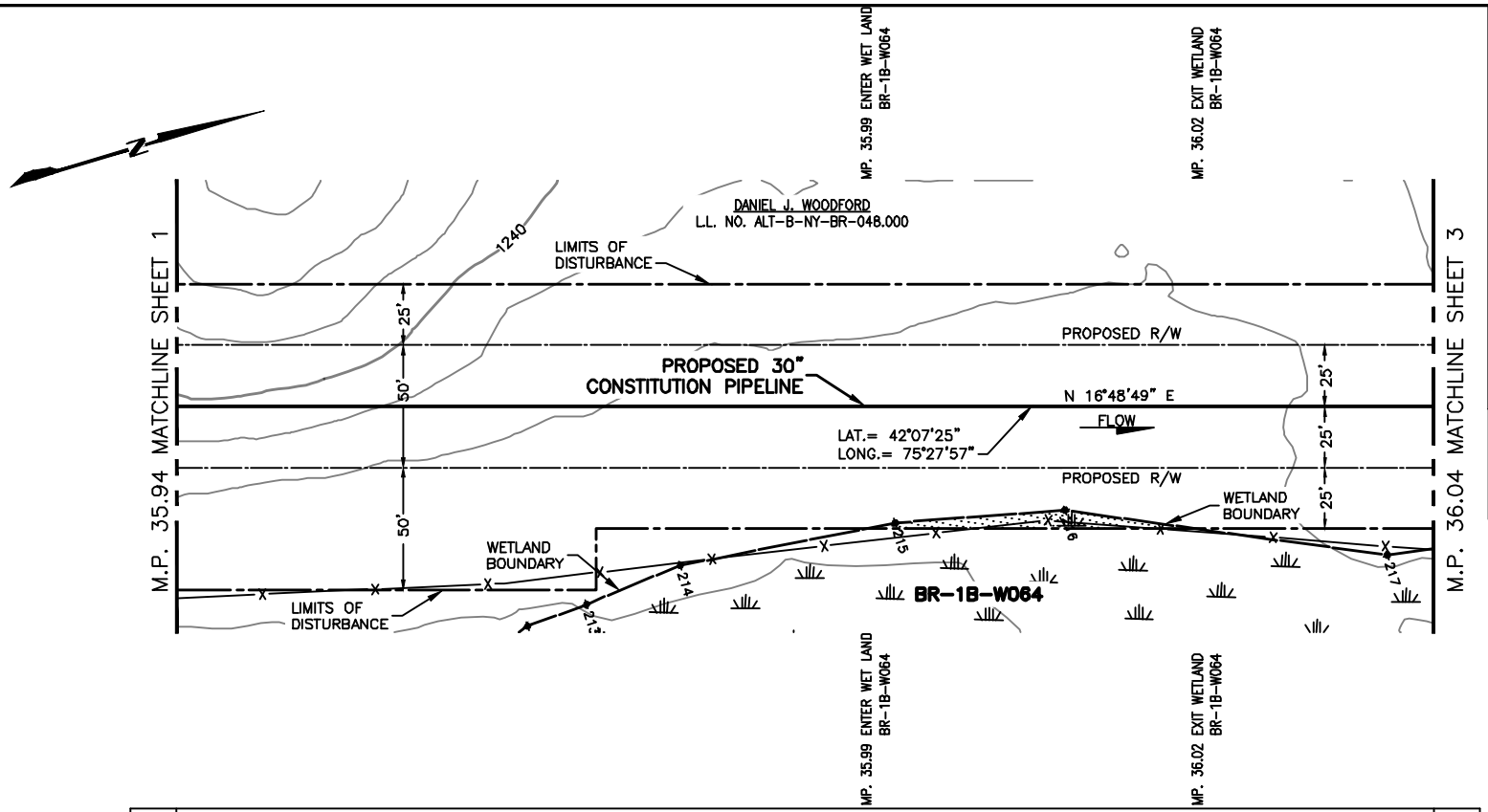
APPLICATION NO.: NAN-2012-00449-UBR

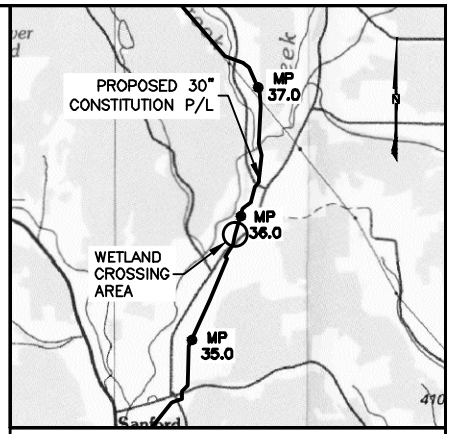
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1B-W064 @ M.P. 35.88
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-17-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1B-W064-1-3	SHEET 111 OF 362
WO: 1110415			



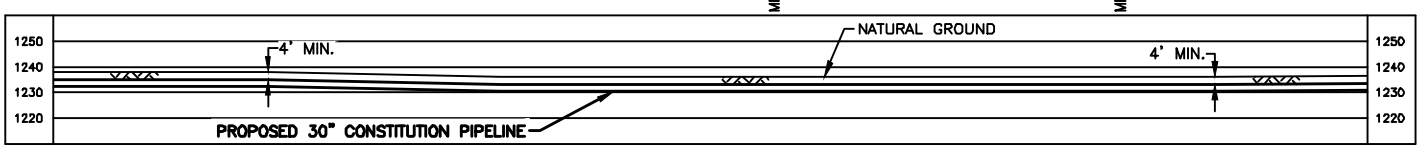


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.562" W.T. X-70,15-17
MILS FBE, 1.5 MILS INTERNAL COATING

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
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5. WETLAND DELINEATION COMPLETED BY AECOM.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1B-WO64	PEM/PSS	0		0.01				N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-37	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-20-13	GIE	ISSUE FOR USE	1110415		
1	09-20-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-21-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-29-13	GIE	ISSUE FOR USE	1110415		

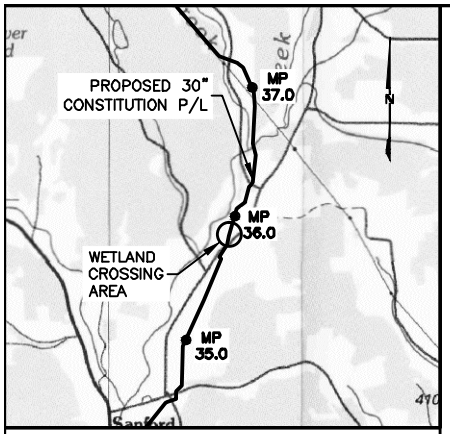
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1B-WO64 @ M.P. 35.88
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-17-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1B-WO64-2-3	SHEET 112 OF 362
WO: 1110415			

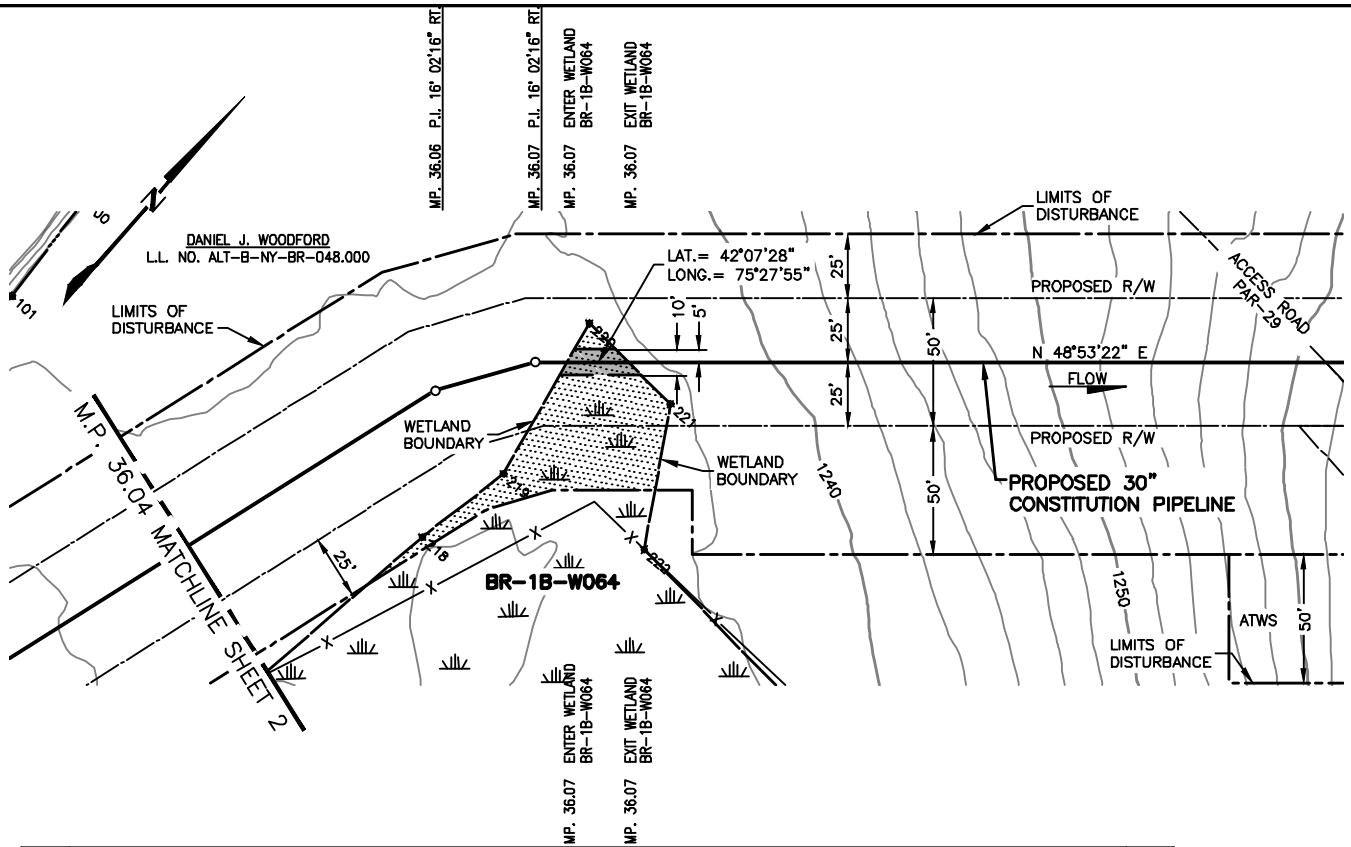


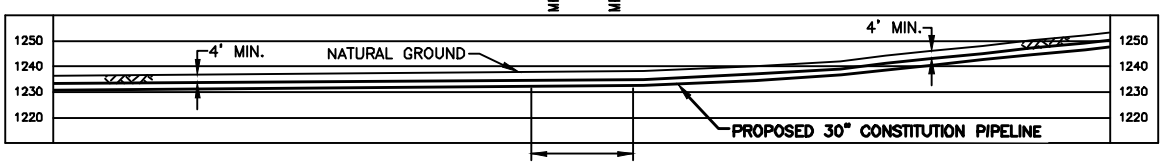
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE,
1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

NOTES:

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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1B-W064	PEM/PSS	24		0.07			0.01	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-37	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-20-13	GIE	ISSUE FOR USE	1110415		
1	09-20-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-21-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-29-13	GIE	ISSUE FOR USE	1110415		

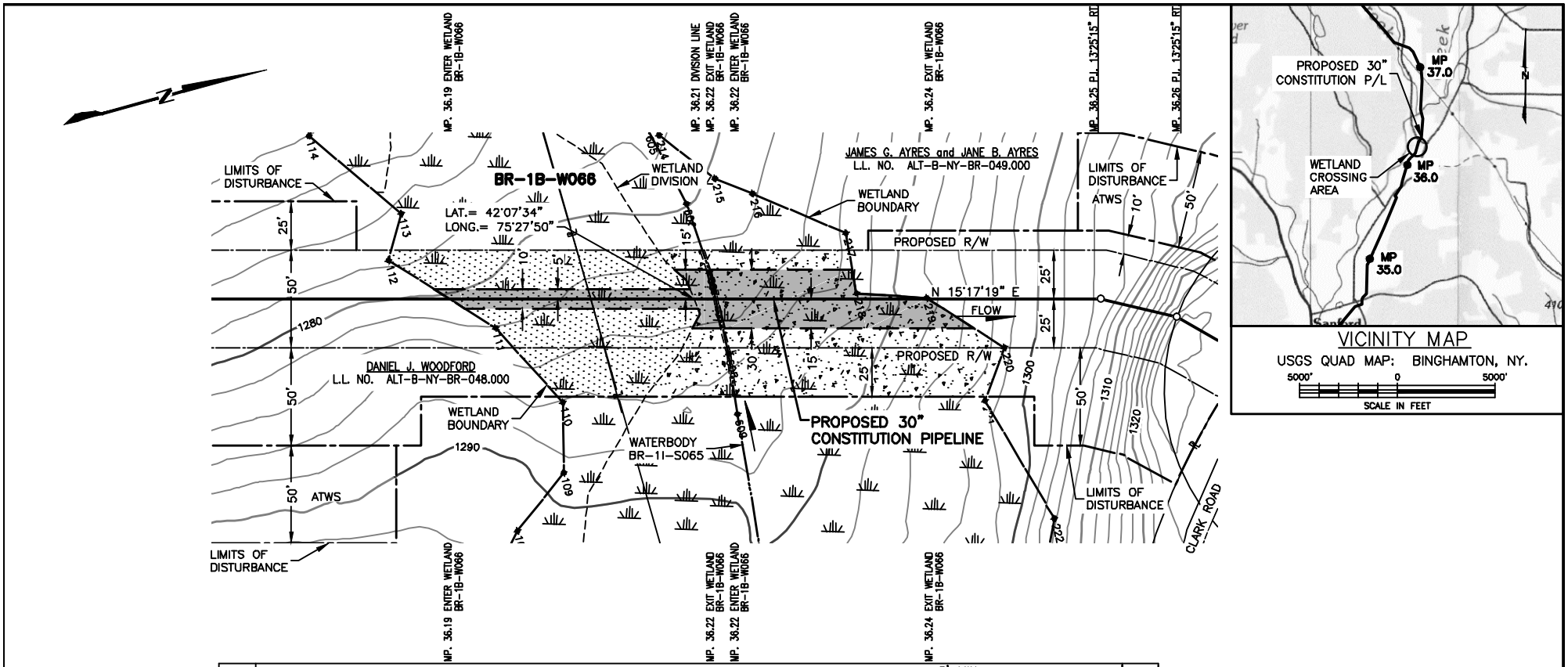
APPLICATION NO.: NAN-2012-00449-UBR

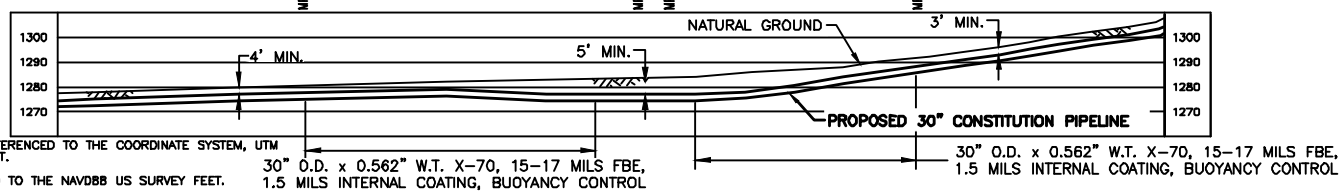
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1B-W064 @ M.P. 35.88
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 04-17-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1B-W064-3-3	SHEET 113 OF 362
WO: 1110415			





PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1B-W066	PSS/PFO	243	0.23	0.18		0.07	0.03	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-37	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-18-03	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-16-13	GIE	REVISED - ISSUE FOR USE	1110415		
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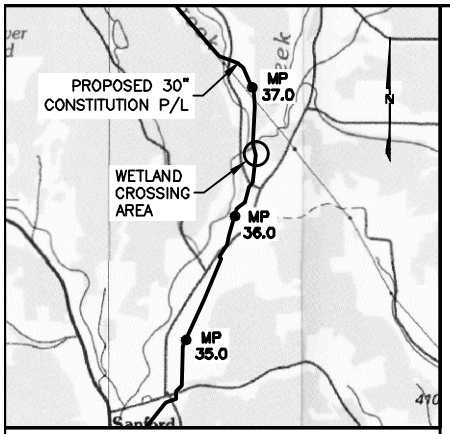
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1B-W066 @ M.P. 36.19
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 06-08-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-20-85/BR-1B-W066-1-3	SHEET 114 OF 362
WO: 1110415			

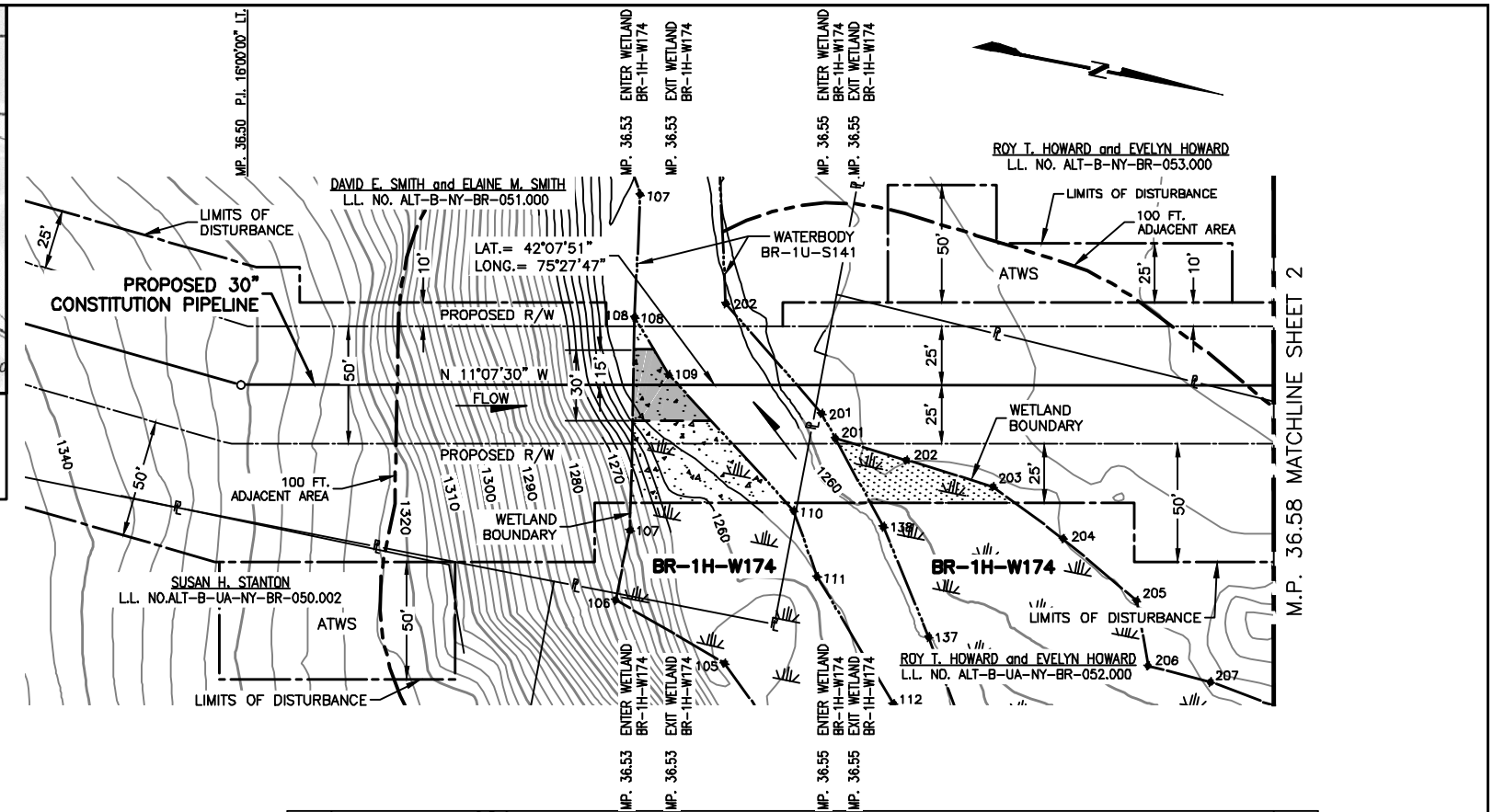


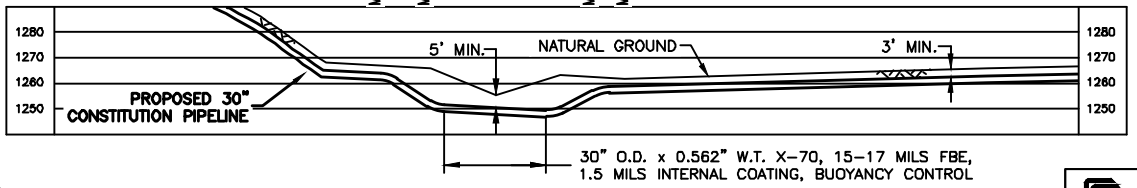
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1H-W174	PFO/PSS	19	0.05	0.02		0.01		NS-1 Class II	Y	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-38	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-20-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-29-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-31-13	GIE	ISSUE FOR USE	1110415		

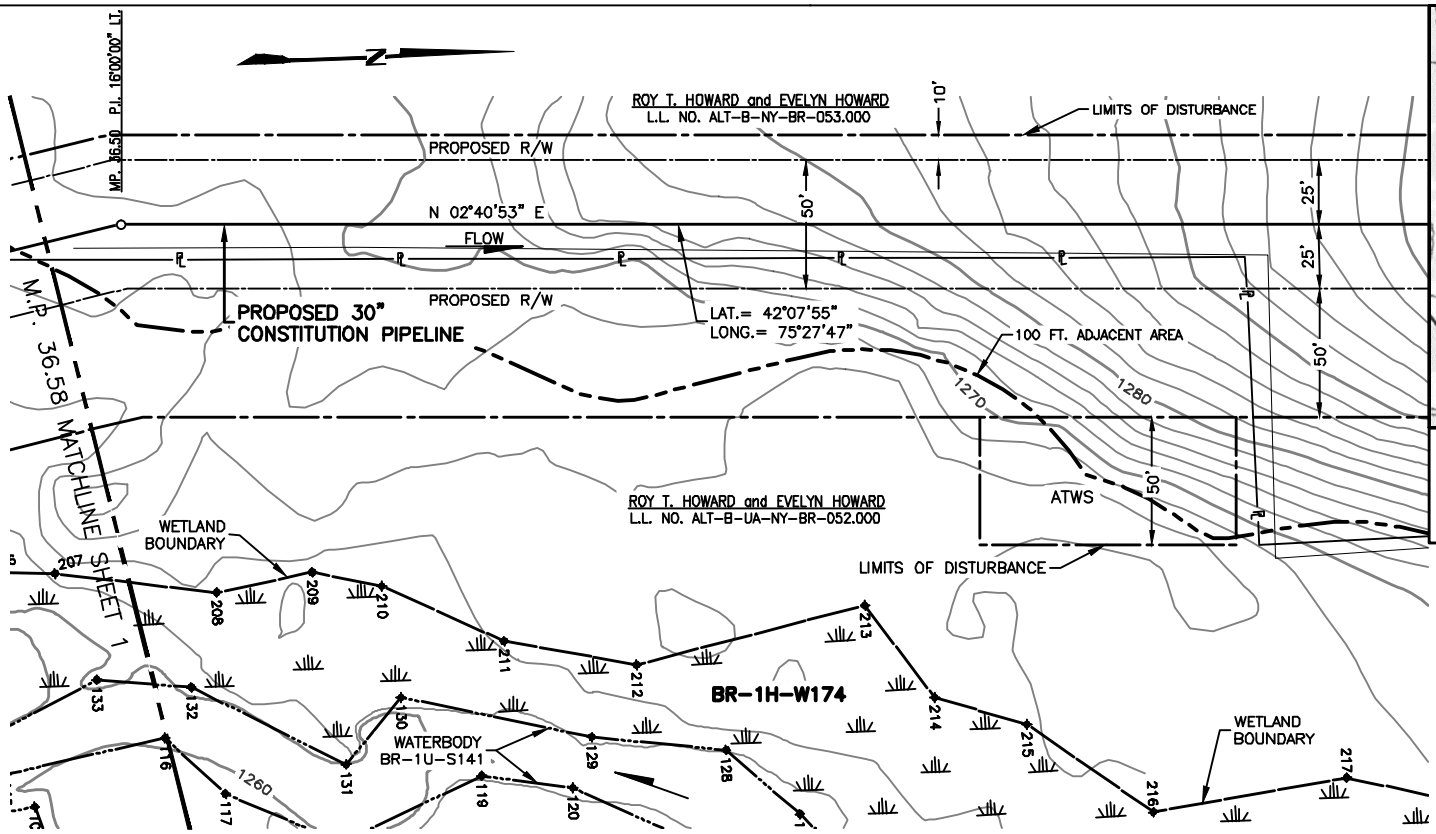
APPLICATION NO.: NAN-2012-00449-UBR

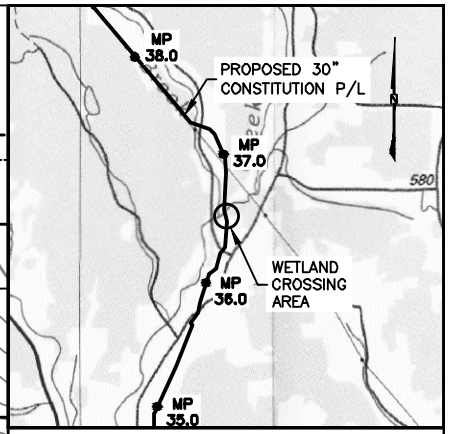
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1H-W174 @ M.P. 36.53
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-05-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1H-W174-1-4	SHEET 115 OF 362
WO: 1110415			



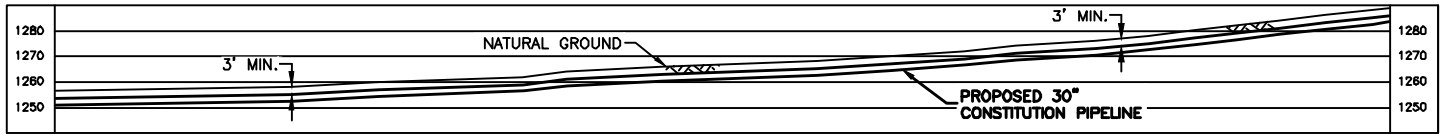


VICINITY MAP

USGS QUAD MAP: BINGHAMTOM, NY.

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION.
   CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY);
   OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1H-W174	PFO/PSS	0						NS-1 Class II	Y	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-27	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-20-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-29-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-31-13	GIE	ISSUE FOR USE	1110415		

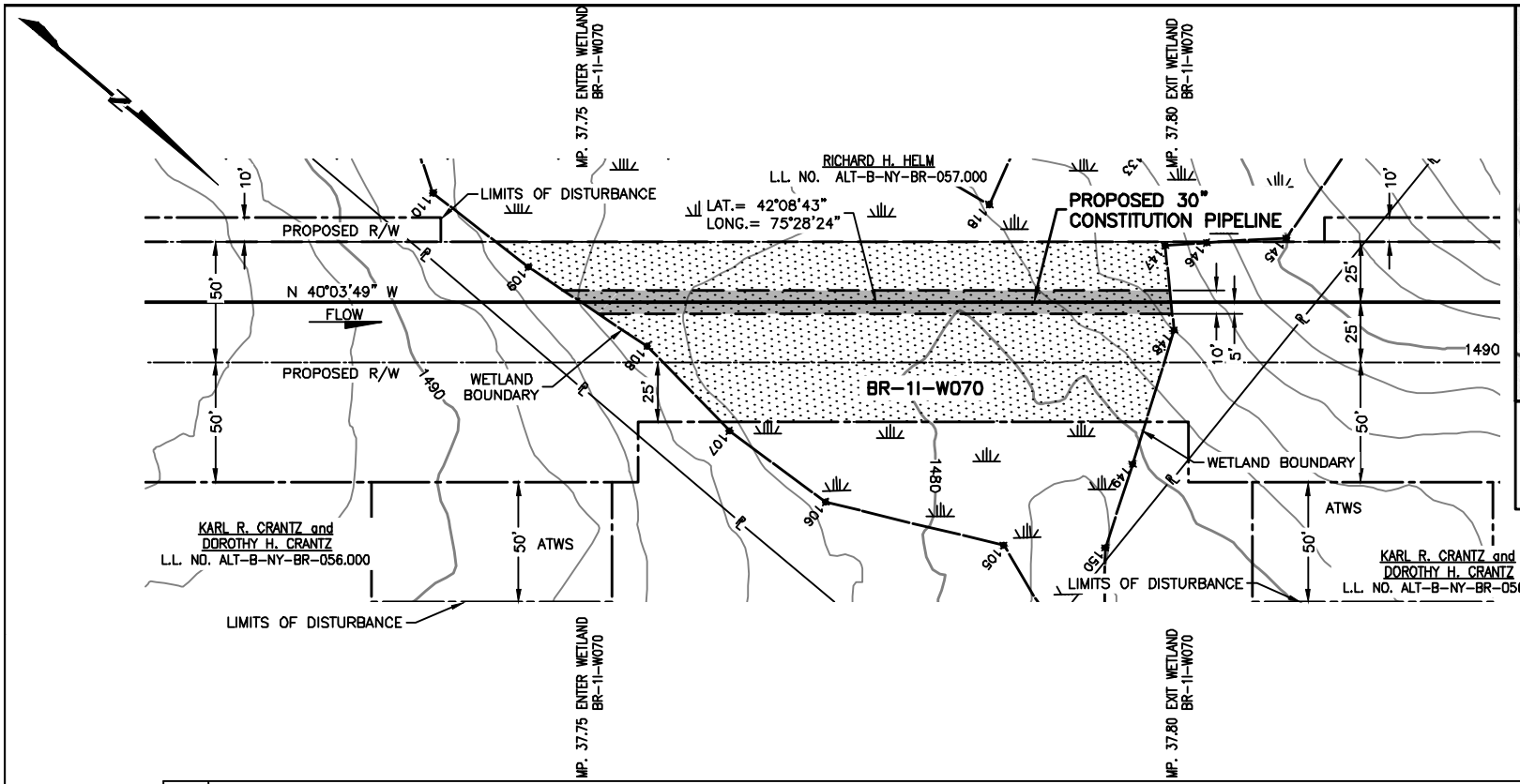
APPLICATION NO.: NAN-2012-00449-UBR

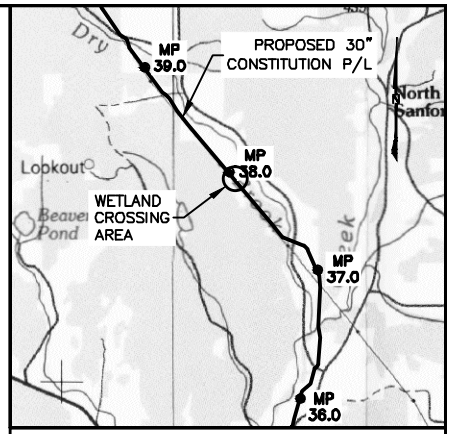
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1H-W174 @ M.P. 36.53
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-05-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1H-W174-2-4	SHEET 116 OF 362
WO: 1110415			



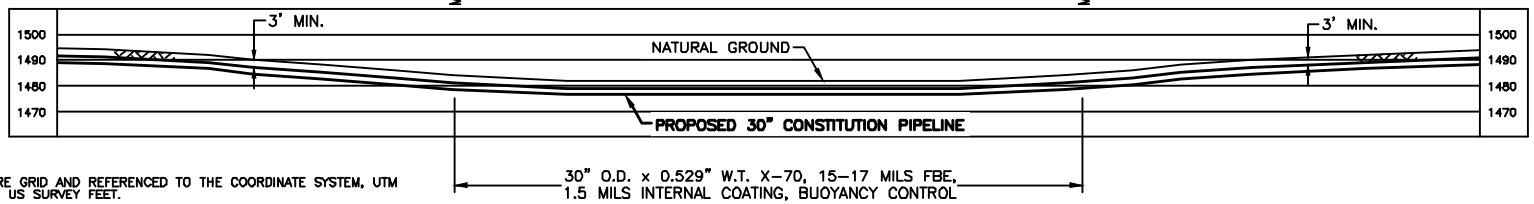


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION.
   CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY);
   OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1I-W070	PSS	246		0.39			0.06	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-39	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-06-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-14-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-18-13	GIE	ISSUE FOR USE	1110415		
1	09-21-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-13-13	GIE	ISSUE FOR USE	1110415		

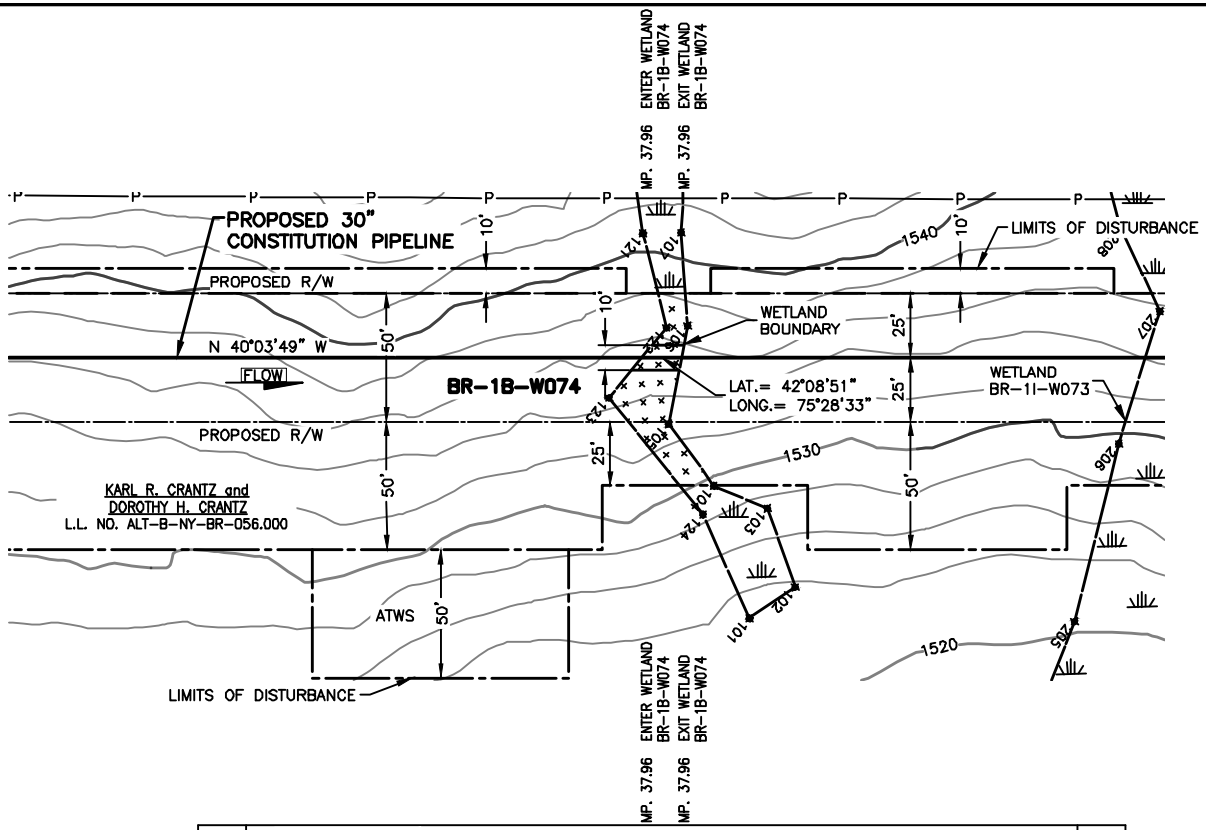
APPLICATION NO.: NAN-2012-00449-UBR

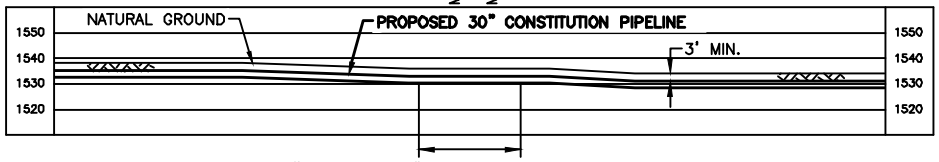
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W070 @ M.P. 37.75
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

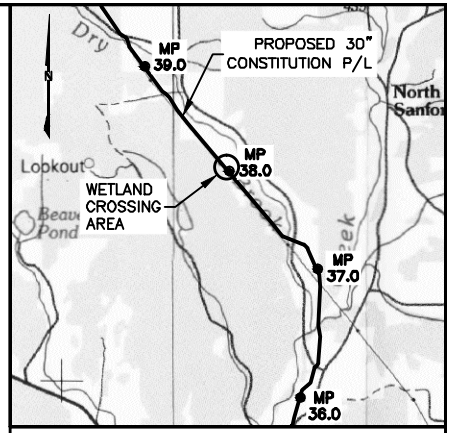
CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-22-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W070-1-2	SHEET 117 OF 362
WO: 1110415			





30" O.D. x 0.529" W.T. X-70, 15-17 MILS FBE,
1.5 MILS INTERNAL COATING, BUOYANCY CONTROL



VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1B-W074	PEM	15			0.03			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-39	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-18-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-21-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-13-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-23-13	GIE	ISSUE FOR USE	1110415		

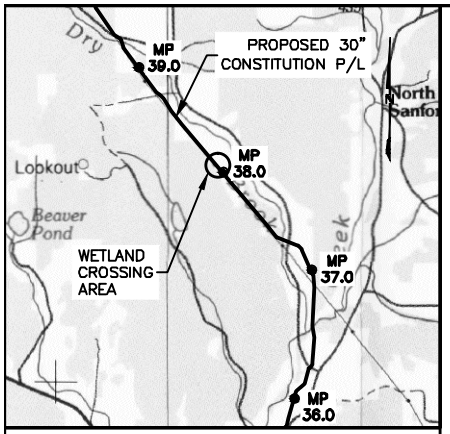
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1B-W074 @ M.P. 37.96
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-23-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1B-W074-1-3	SHEET 118 OF 362
WO: 1110415			

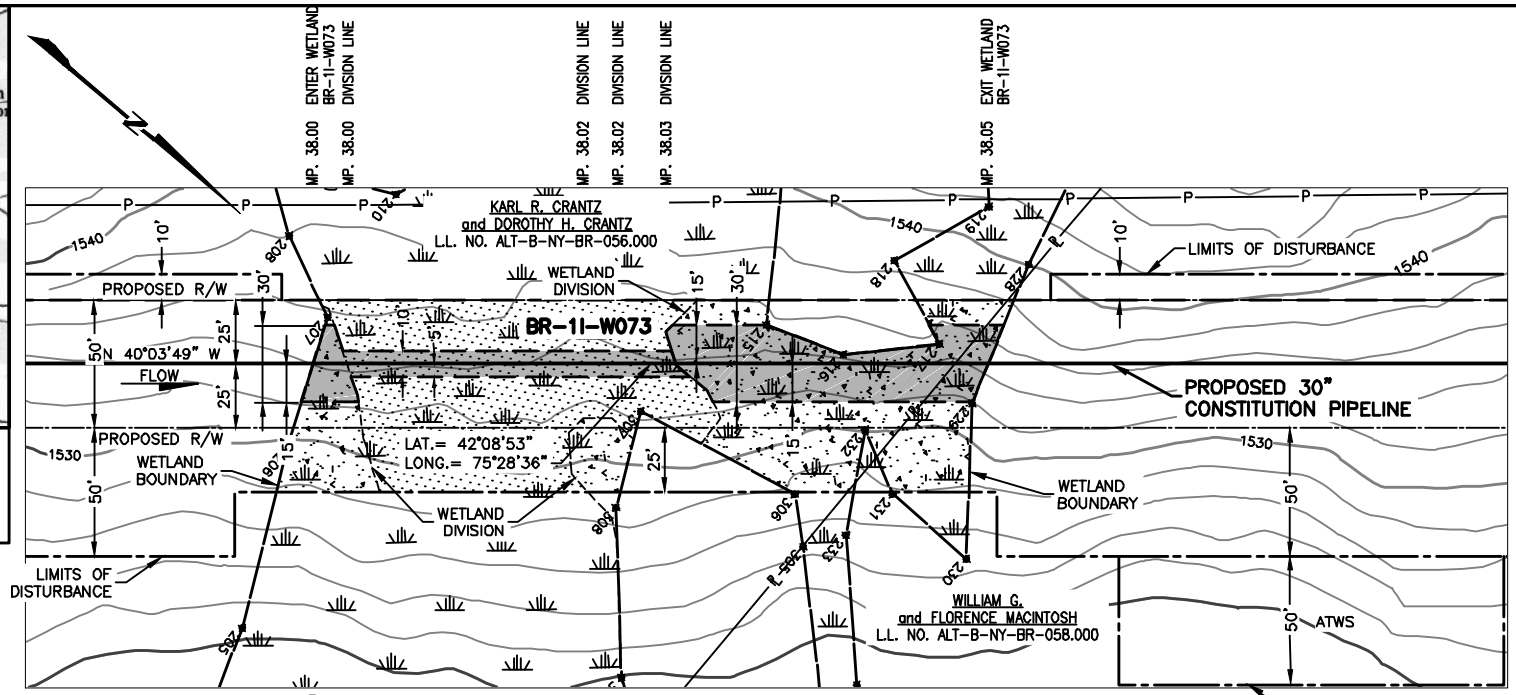


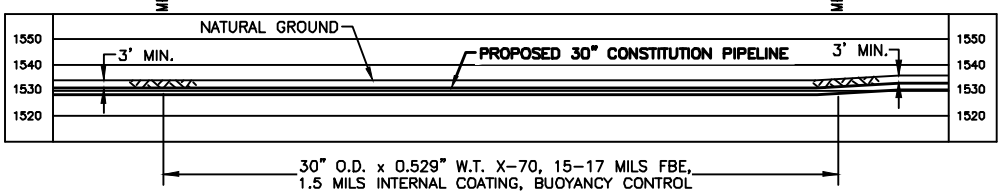
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1I-W073	PFO/PSS	263	0.20	0.20		0.08	0.03	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-39	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-14-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-18-13	GIE	ISSUE FOR USE	1110415		
1	09-21-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-13-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-23-13	GIE	ISSUE FOR USE	1110415		

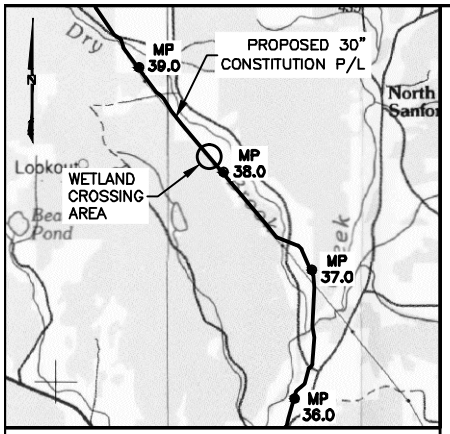
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1I-W073 @ M.P. 38.00
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-24-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1I-W073-1-3	SHEET 119 OF 362
WO: 1110415			

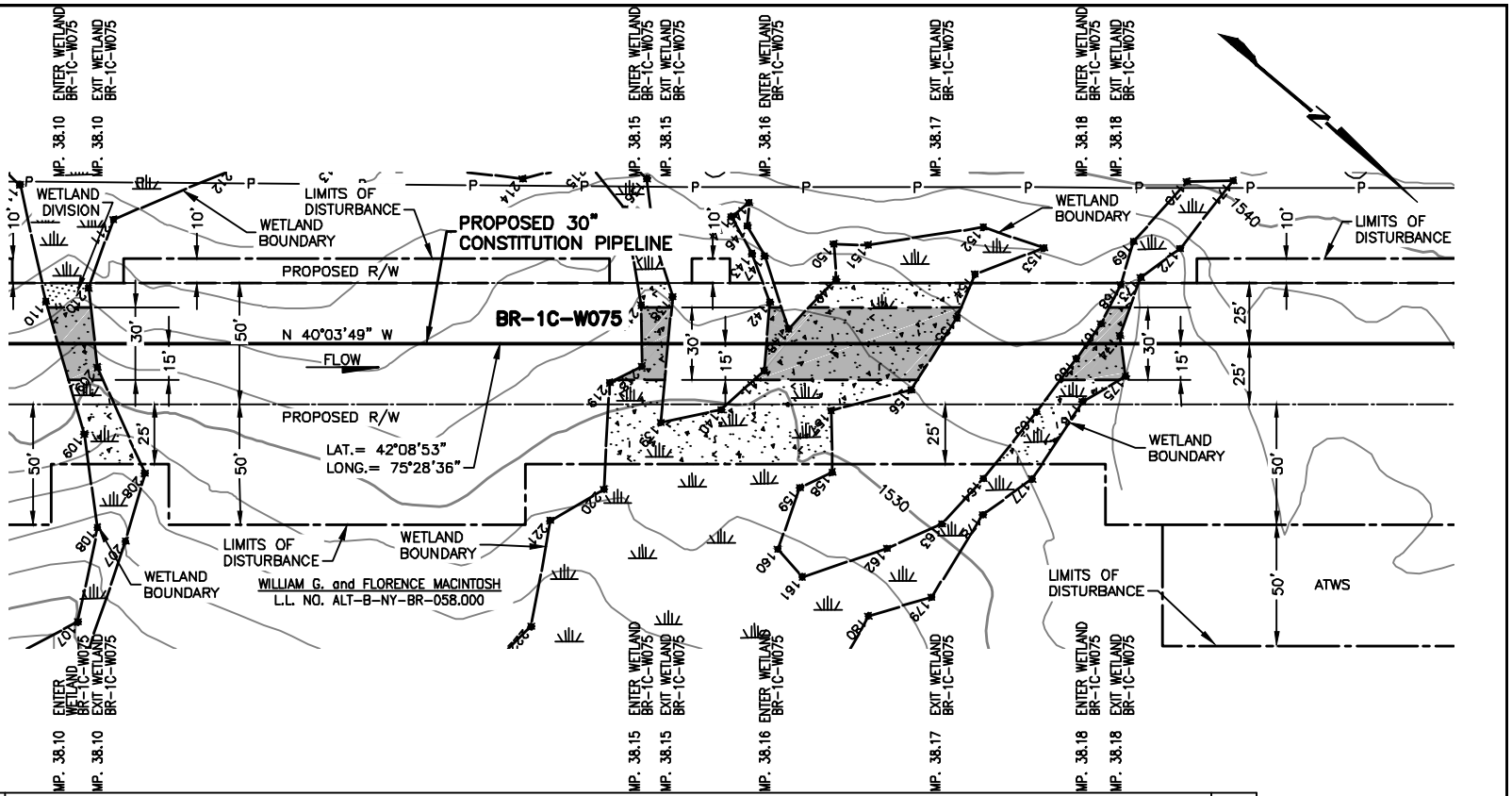


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.529" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1C-W075	PFO/PSS	112	0.21	0.01		0.08		N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-39	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-08-13	GIE	REVISED, ISSUED FOR CLIENT REVIEW	1110415		
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-22-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-12-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-23-13	GIE	ISSUE FOR USE	1110415		

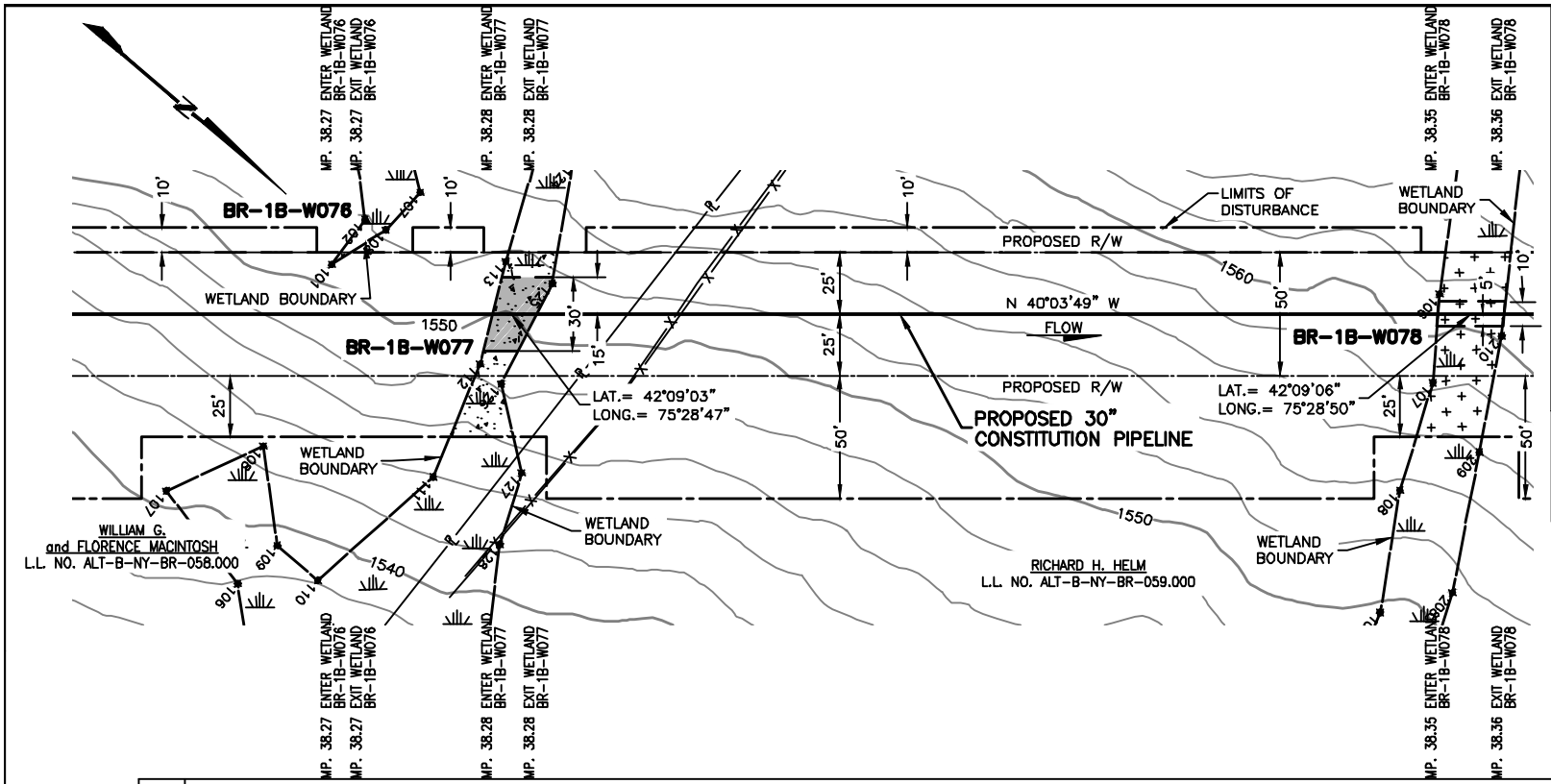
APPLICATION NO.: NAN-2012-00449-UBR

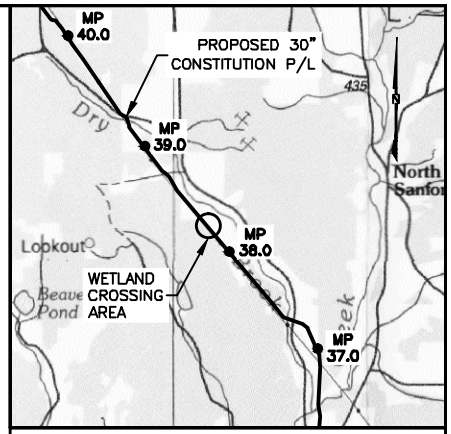
GULF INTERSTATE ENGINEERING HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1C-W075 @ M.P. 38.10
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-24-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1C-W075-1-3	SHEET 120 OF 362
WO: 1110415			



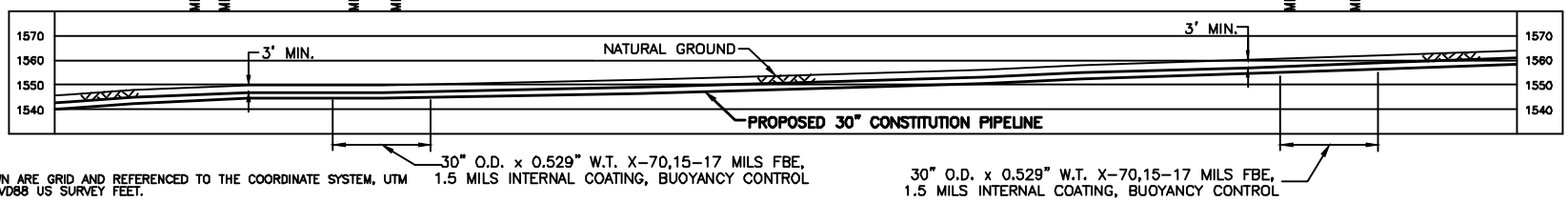


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1B-W076	PEM	0			0.01			N/A	N	N/A
BR-1B-W077	PFO	18	0.03			0.01		N/A	N	Conventional
BR-1B-W078	PEM	27			0.04			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-39	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-22-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-10-13	GIE	ISSUE FOR USE	1110415		

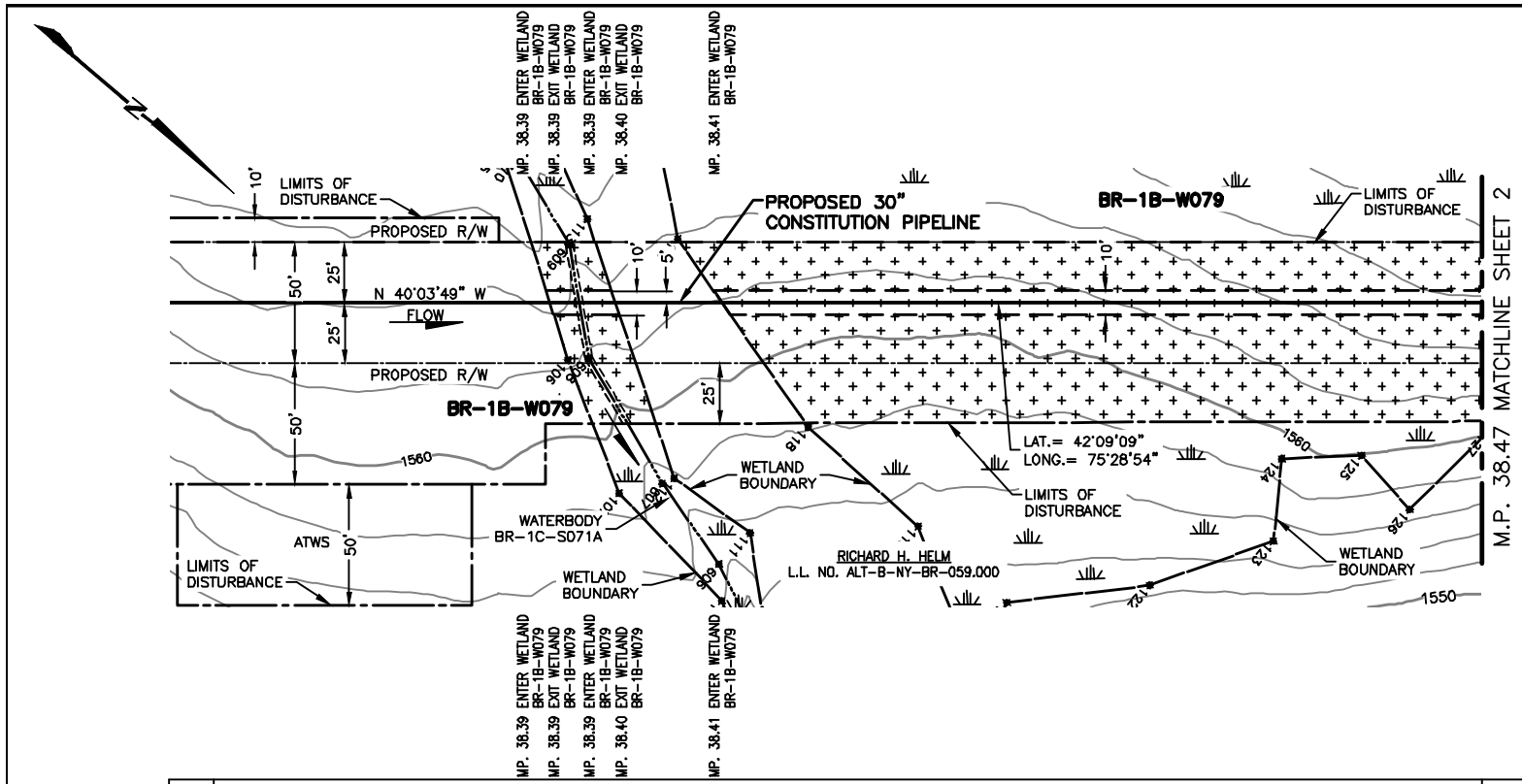
APPLICATION NO.: NAN-2012-00449-UBR

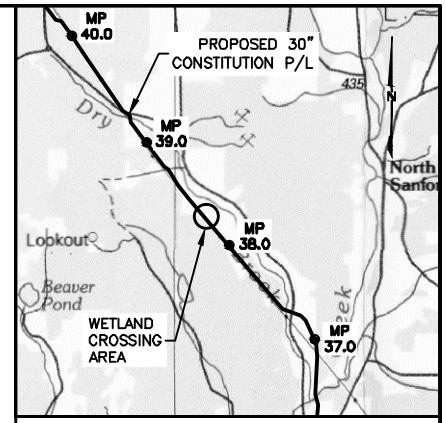
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSINGS BR-1B-W076, BR-1B-W077
AND BR-1B-W078 @ M.P. 38.27
TOWN OF SANFORD, BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 07-24-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1B-W076-1-2	SHEET 121 OF 362
WO: 1110415			



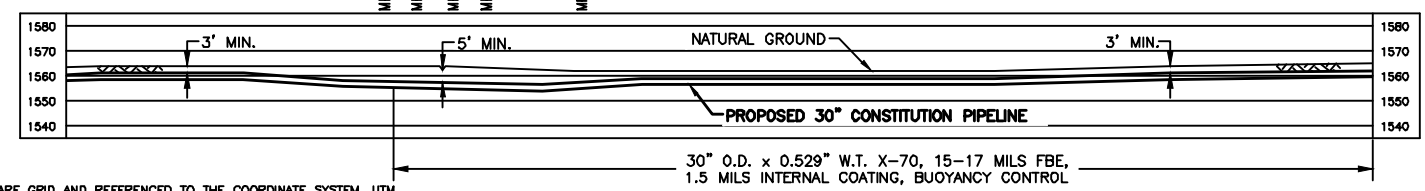


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY); OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1B-W079	PEM	339			0.56			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-39	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
D	08-19-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	08-20-13	GIE	ISSUE FOR USE	1110415		
1	09-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-13-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-23-13	GIE	ISSUE FOR USE	1110415		

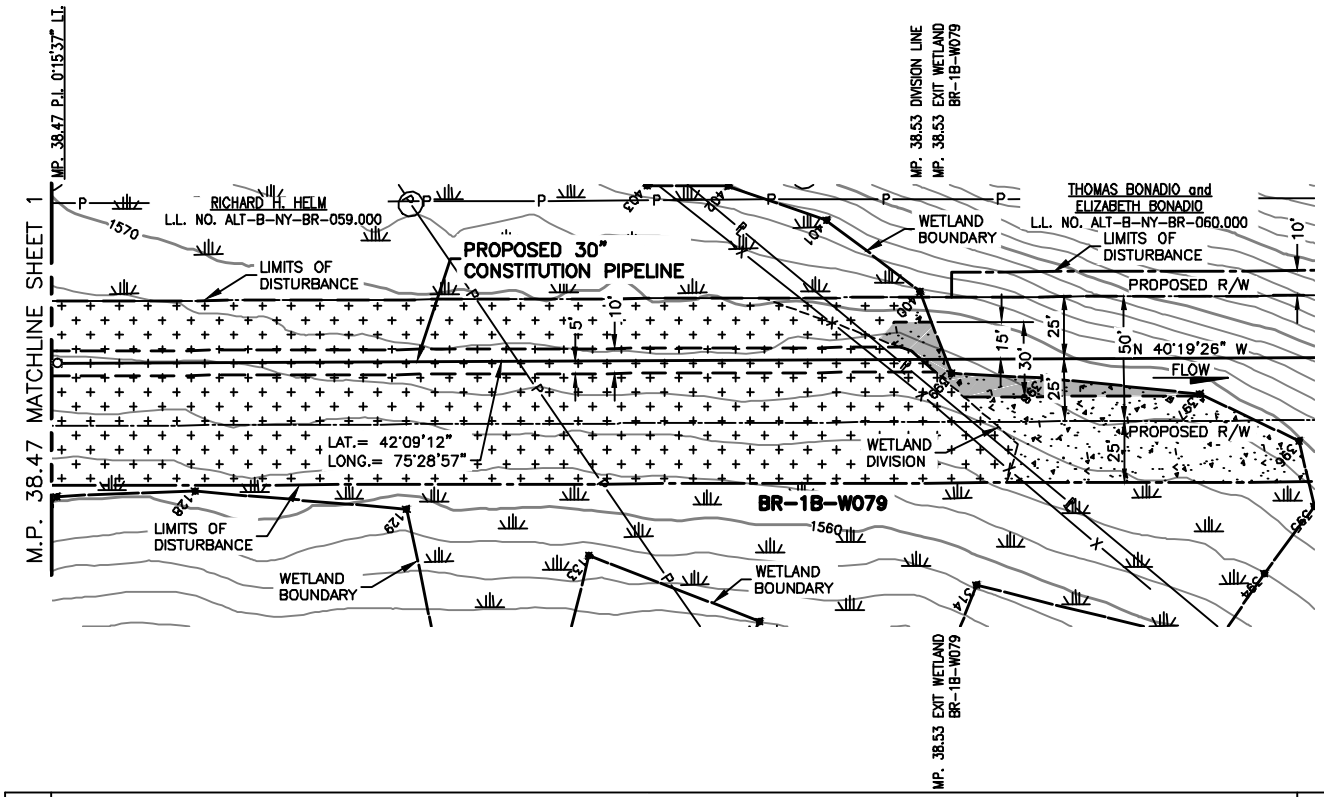
APPLICATION NO.: NAN-2012-00449-UBR

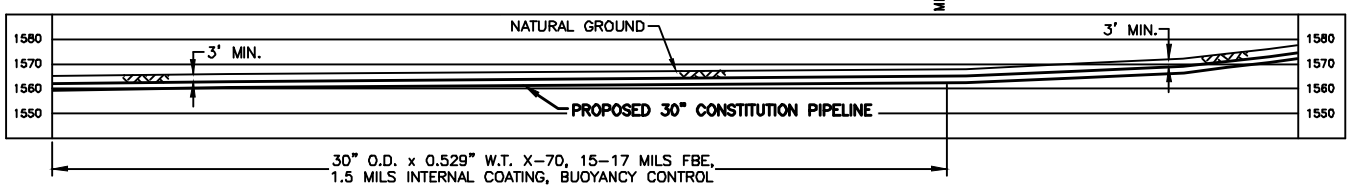
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

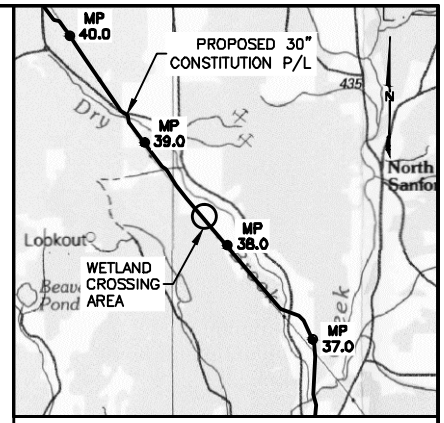
CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1B-W079 @ M.P. 38.39
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-29-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-20-85/BR-1B-W079-1-3	SHEET 122 OF 362
WO: 1110415			







VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY); OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1B-W079	PEM/PFO	359	0.11		0.62	0.02		N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-39	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
D	08-19-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	08-20-13	GIE	ISSUE FOR USE	1110415		
1	09-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-13-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-23-13	GIE	ISSUE FOR USE	1110415		

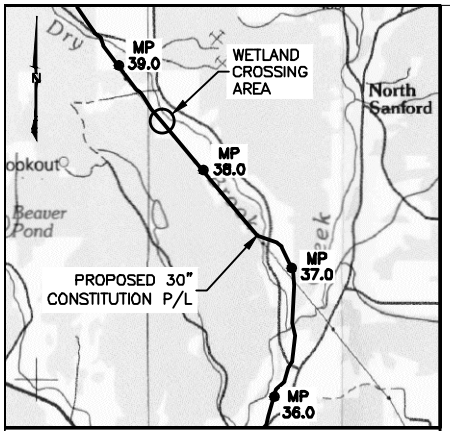
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1B-W079 @ M.P. 38.39
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-29-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-20-85/BR-1B-W079-2-3	SHEET 123 OF 362
WO: 1110415			

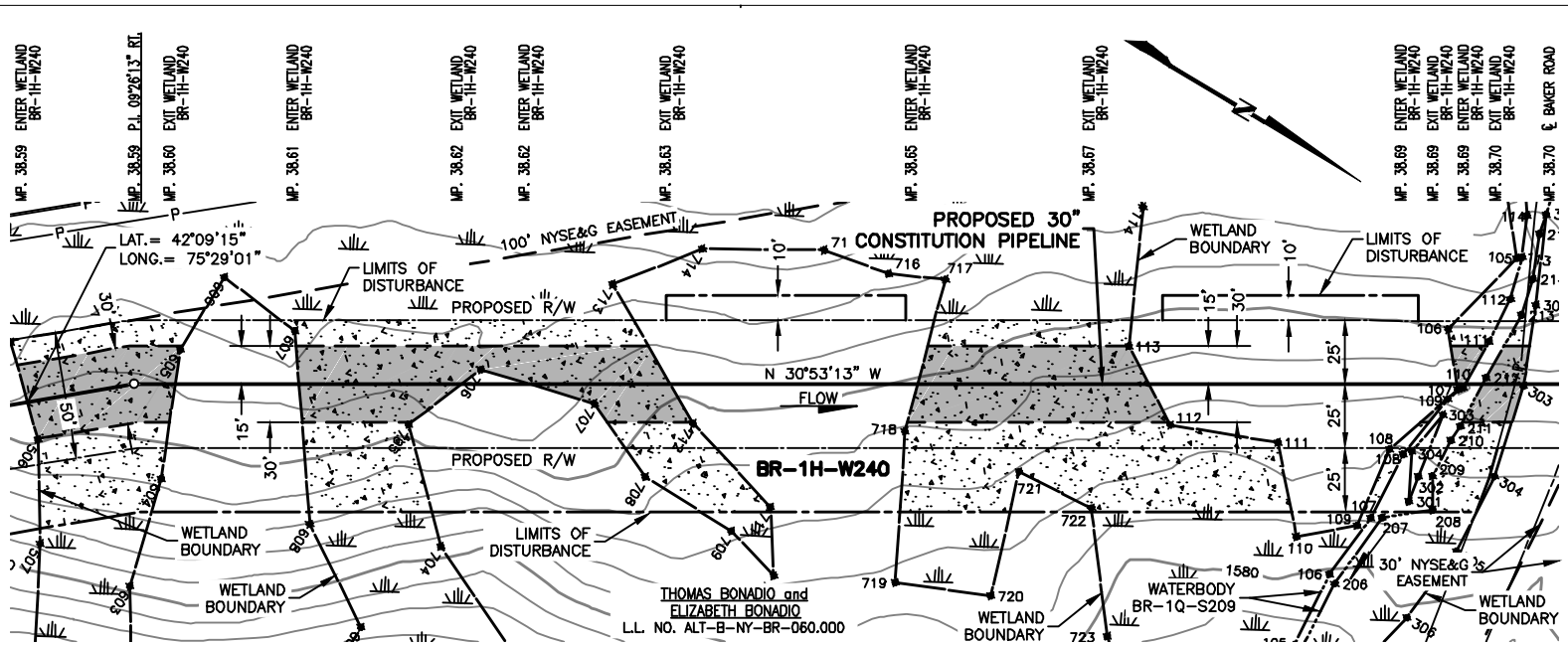


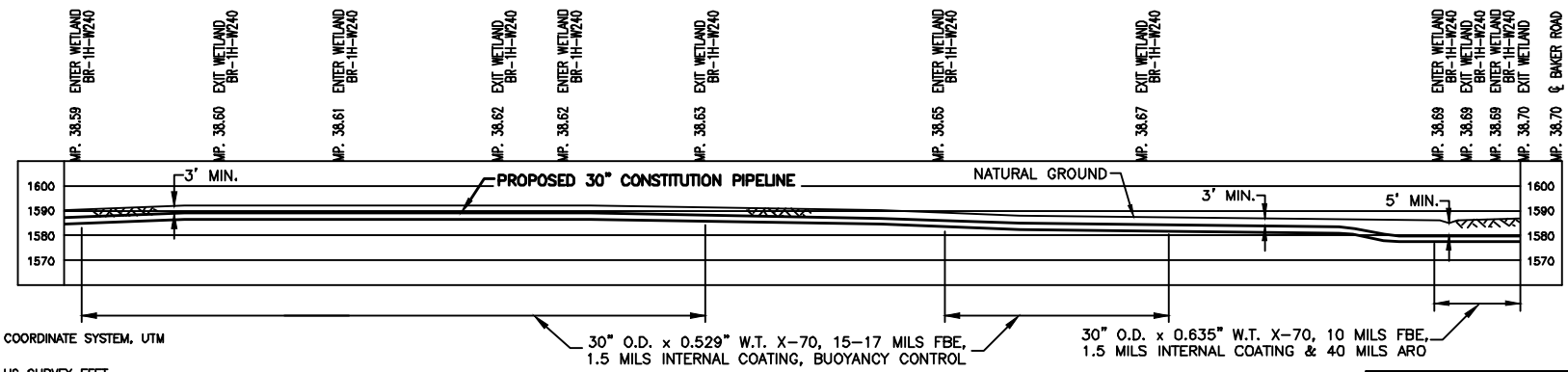
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
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5. WETLAND DELINEATION COMPLETED BY AECOM.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1H-W240	PFO	288	0.51			0.19		N/A	N	Conventional and Conventional Bore

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-40	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-12-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-25-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	10-30-13	GIE	ISSUE FOR USE	1110415		

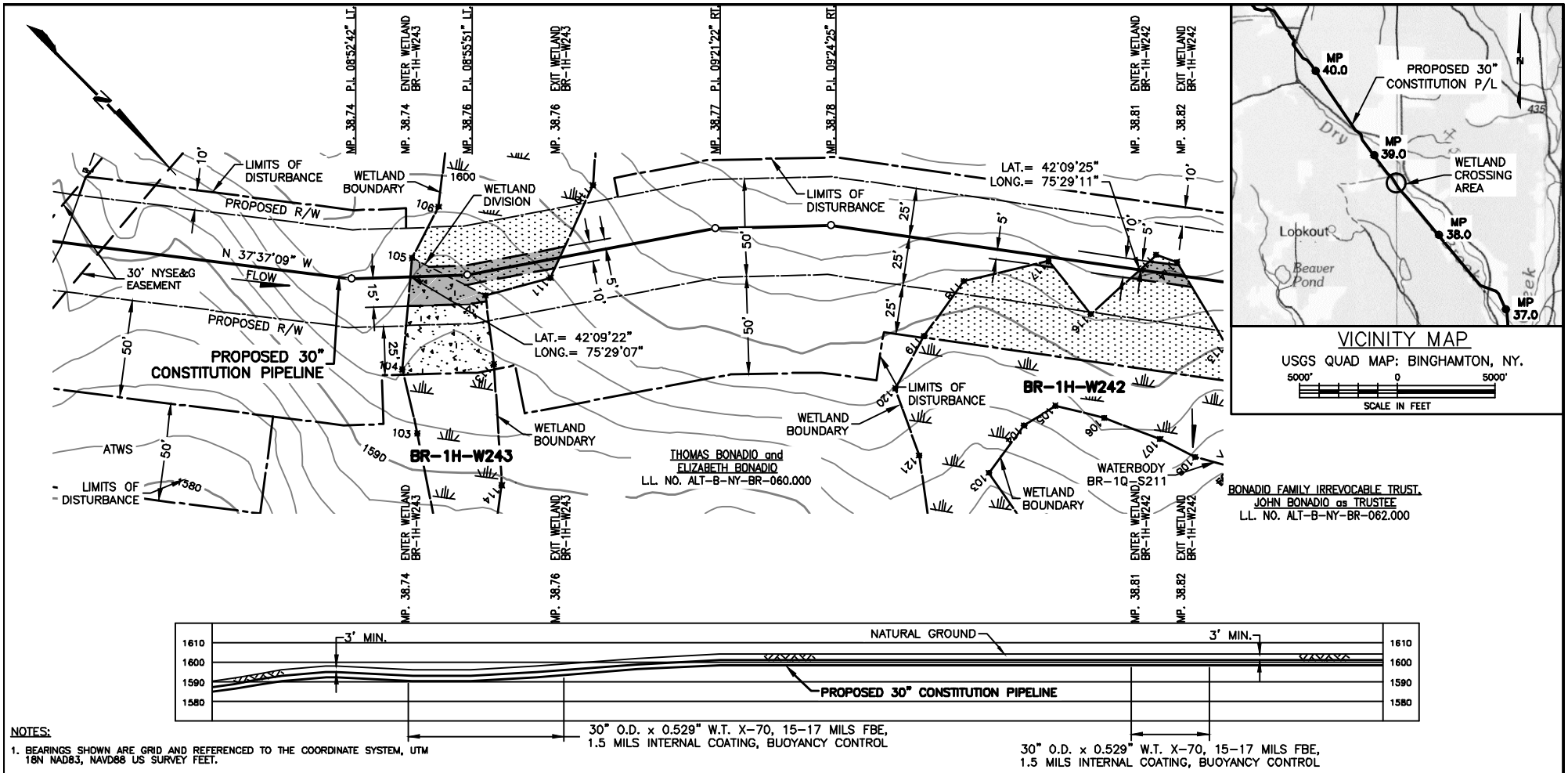
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1H-W240 @ M.P. 38.59
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-12-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1H-W240-1-0	SHEET 124 OF 362
WO: 1110415			



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
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6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY); OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1H-W243	PFO/PSS	78	0.05	0.06		0.01	0.01	N/A	N	Conventional
BR-1H-W242	PSS	24		0.14			0.01	N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-40	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-13-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	10-30-13	GIE	ISSUE FOR USE	1110415		

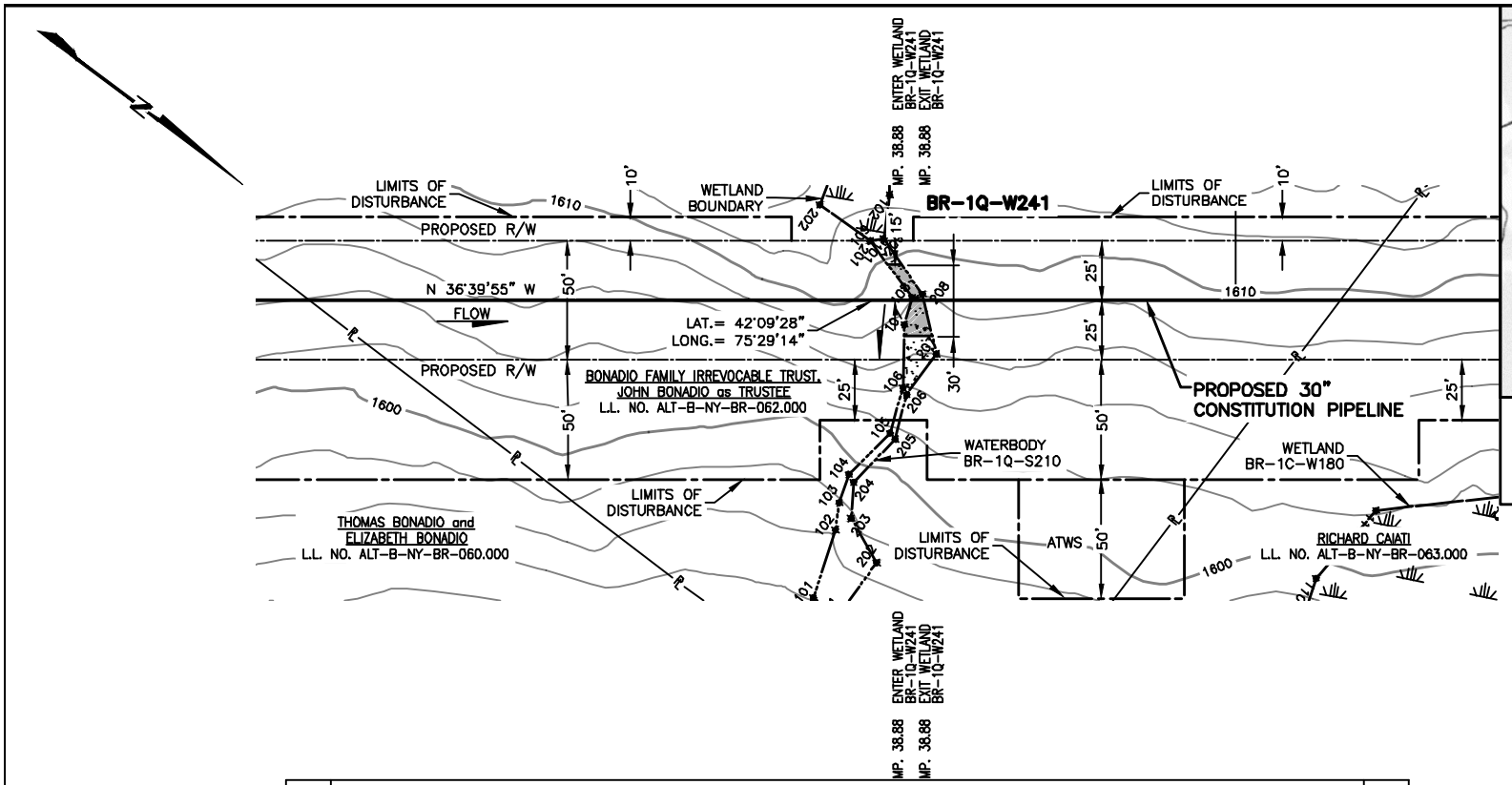
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

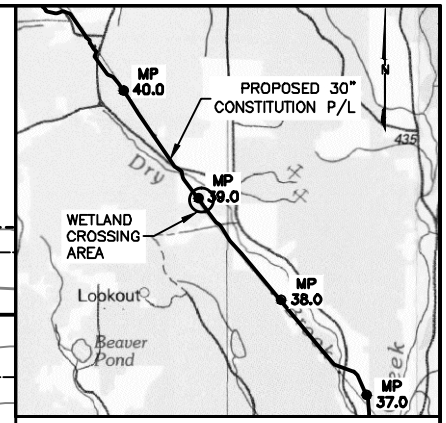
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSINGS BR-1H-W243 AND
BR-1H-W242 @ M.P. 38.74
TOWN OF SANFORD BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-13-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-20-85/BR-1H-W243-1-0	SHEET 125 OF 362
WO: 1110415			



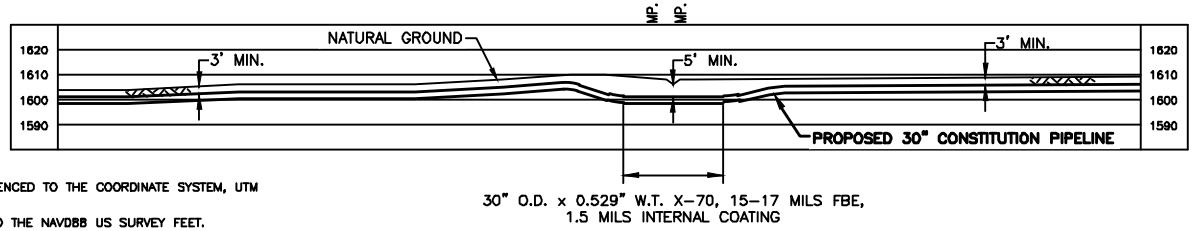


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.529" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
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6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY); OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1Q-W241	PFO	0	0.01			0.00		N/A	N	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-40	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-15-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-26-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	10-30-13	GIE	ISSUE FOR USE	1110415		
1	10-31-13	GIE	ISSUE FOR USE	1110415		

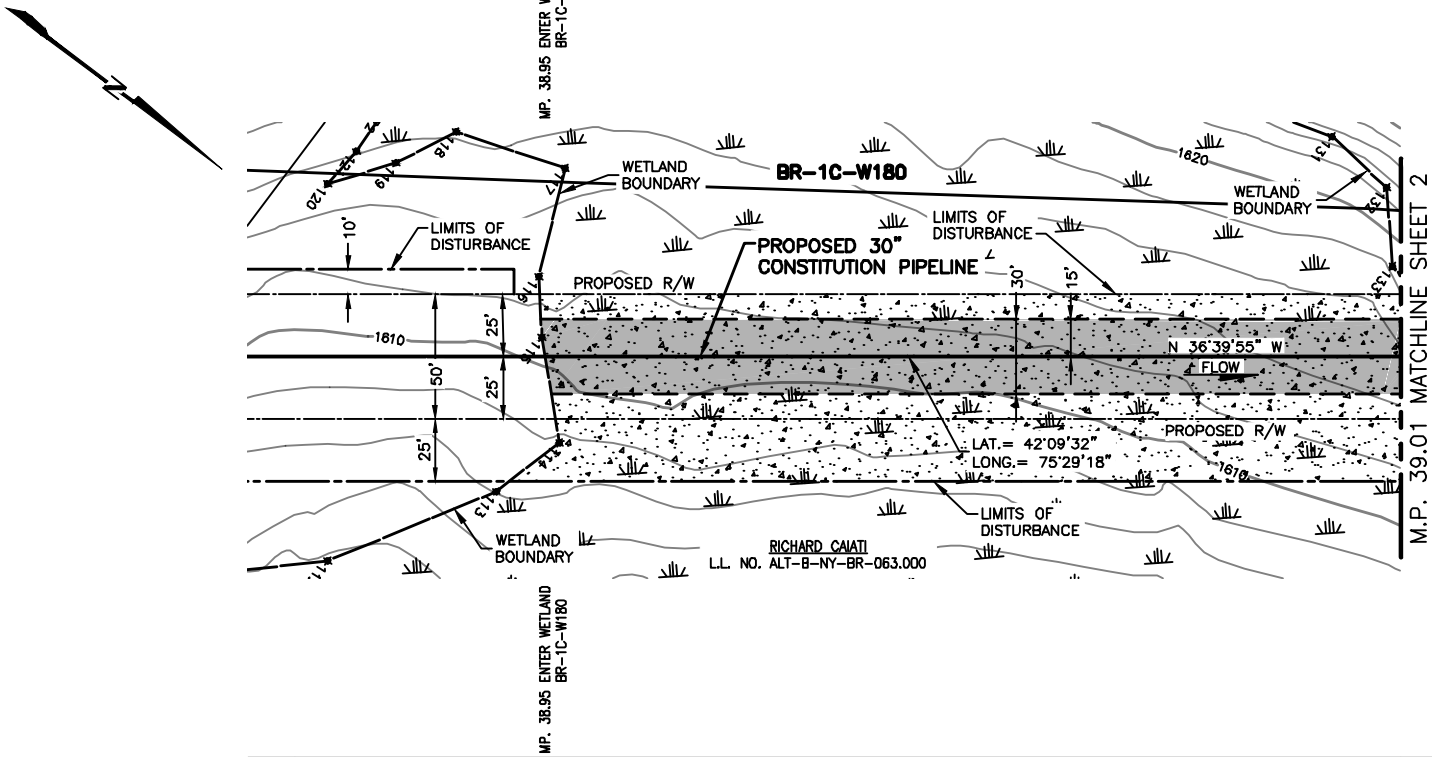
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

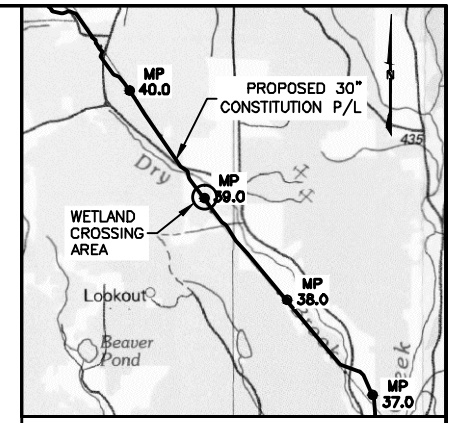
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1Q-W241 @ M.P. 38.88
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-15-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-20-85/BR-1Q-W241-1-1	SHEET 126 OF 362
WO: 1110415			



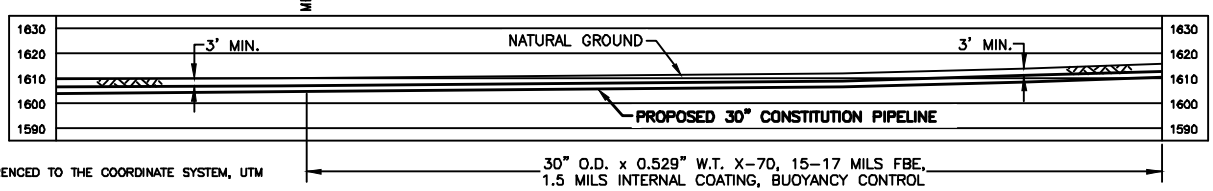


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres) Construction PFO	Construction PSS	Construction PEM	Operation PFO	Operation PSS	State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
BR-1C-W180	PFO/PEM	343	0.60			0.28		N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-40	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-18-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-24-13	GIE	REVISED-ISSUE FOR USE	1110415		
2	10-13-13	GIE	REVISED-ISSUE FOR USE	1110415		
3	10-23-13	GIE	ISSUE FOR USE	1110415		

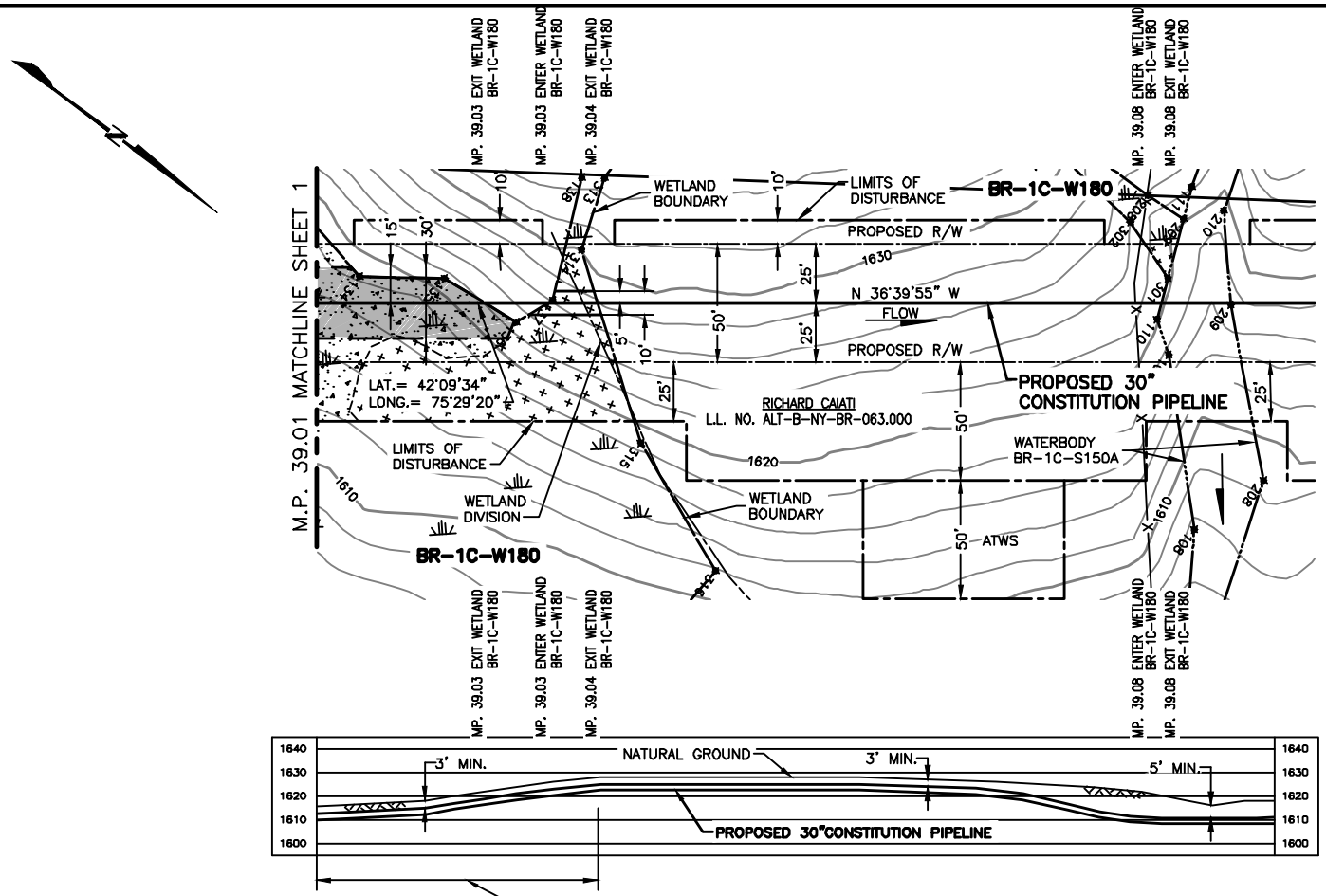
APPLICATION NO.: NAN-2012-00449-UBR

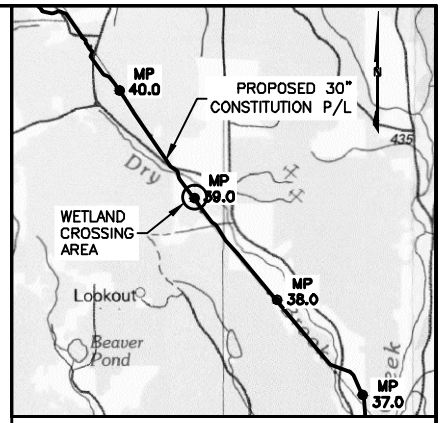
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1C-W180 @ M.P. 39.04
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-30-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-20-85/BR-1C-W180-1-3	SHEET 127 OF 362
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION. CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY); OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1C-W180	PFO/PEM	92	0.06		0.11	0.04		N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-40	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-18-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-24-13	GIE	REVISED-ISSUE FOR USE	1110415		
2	10-13-13	GIE	REVISED-ISSUE FOR USE	1110415		
3	10-23-13	GIE	ISSUE FOR USE	1110415		

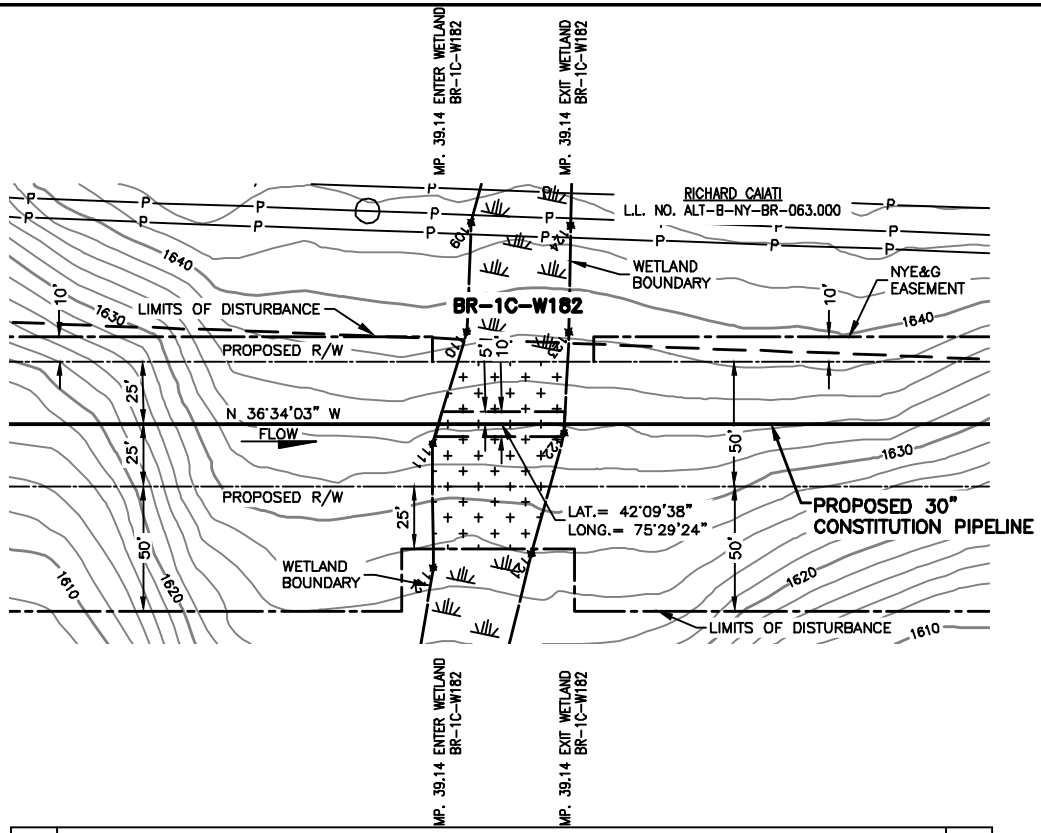
APPLICATION NO.: NAN-2012-00449-UBR

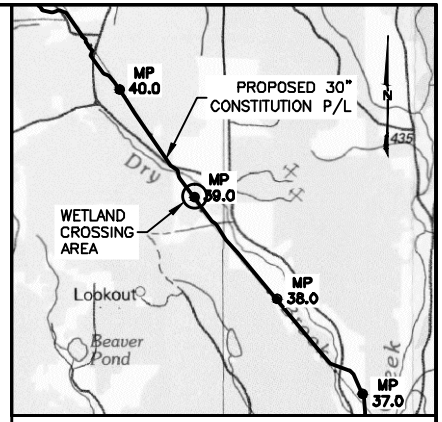
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1C-W180 @ M.P. 39.04
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-30-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-20-85/BR-1C-W180-2-3	SHEET 128 OF 362
WO: 1110415			



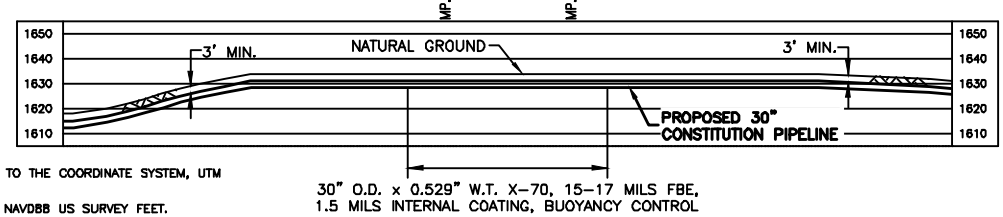


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.529" W.T. X-70, 15-17 MILS FBE,
1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
5. WETLAND DELINEATION COMPLETED BY AECOM.
6. THIS DRAWING DEPICTS IMPACTS REQUIRED FOR A JOINT APPLICATION WITH THE USACE AND THE NYDEC. THE PROPOSED R/W IS A 50 FOOT PERMANENT RIGHT-OF-WAY (ROW) THAT REPRESENTS A LEGAL EASEMENT AGREEMENT FROM THE LANDOWNER TO CONSTITUTION.
   CONSTRUCTION ACREAGE = ALL WORKSPACE DURING CONSTRUCTION ACTIVITIES (PERMANENT AND TEMPORARY);
   OPERATION ACREAGE = 10 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED IN HERBACEOUS VEGETATED COVER THROUGH PSS WETLANDS, AND 30 FOOT WIDE CORRIDOR PERMANENTLY MAINTAINED THROUGH PFO WETLANDS.

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1C-W182	PEM	50			0.08			N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-40	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
8	08-13-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-24-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

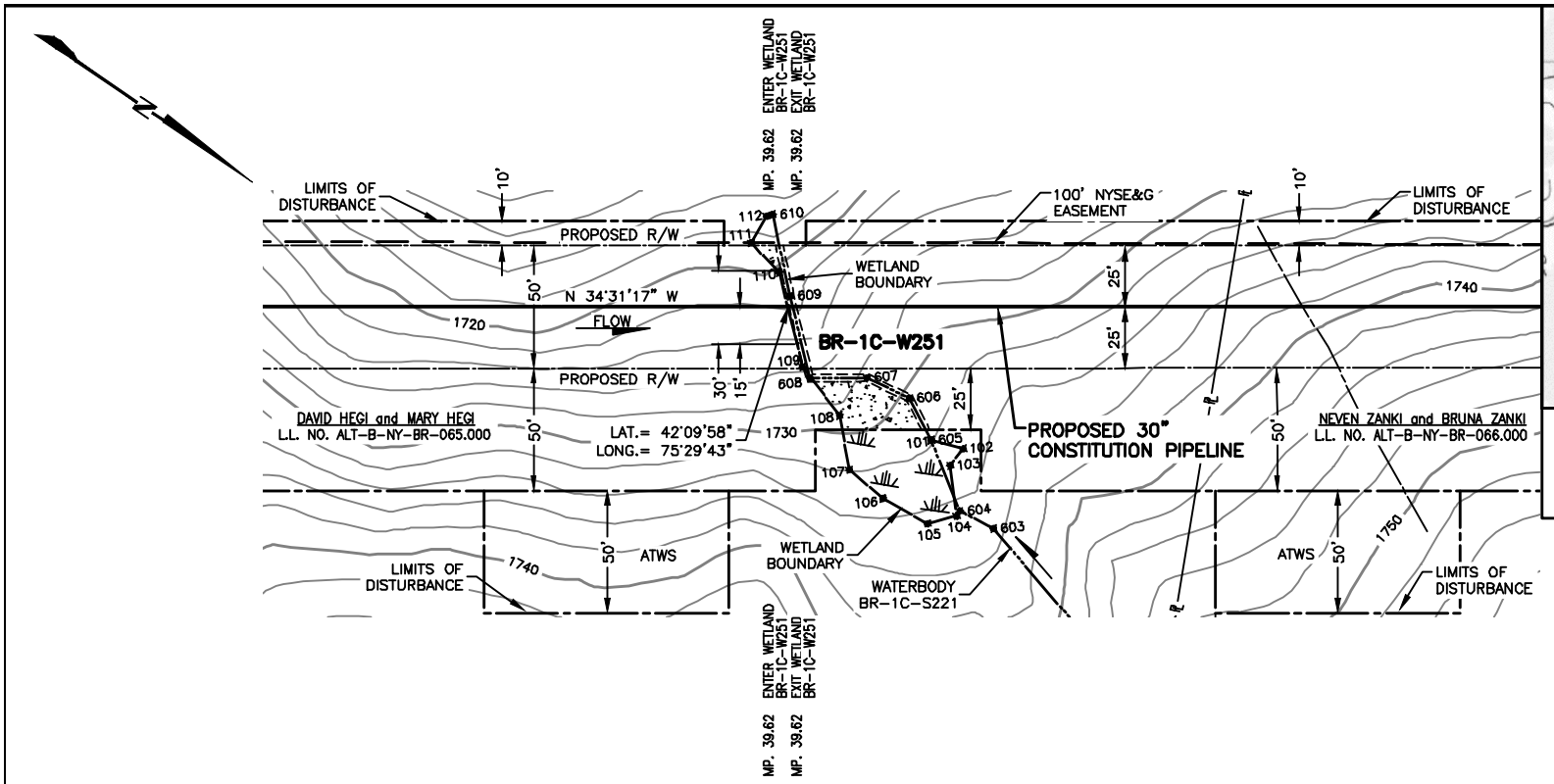
APPLICATION NO.: NAN-2012-00449-UBR

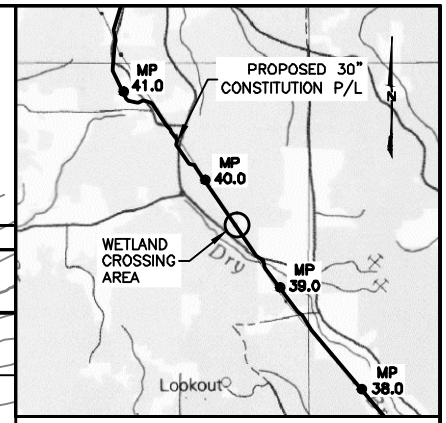
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1C-W182 @ M.P. 39.14
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 06-01-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-20-85/BR-1C-W182-1-3	SHEET 129 OF 362
WO: 1110415			



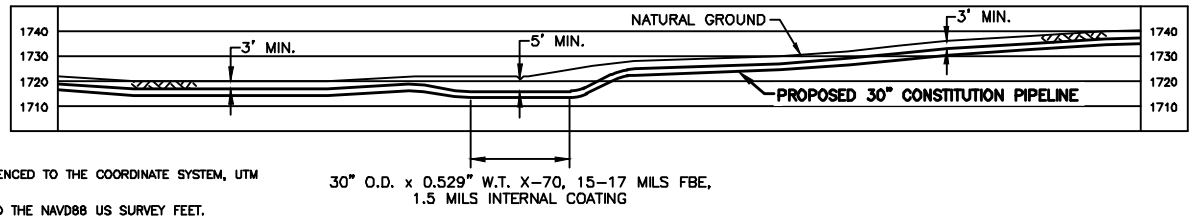


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
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Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1C-W251	PFO	1	0.02			0.01		N/A	N	Conventional

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-41	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-14-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-26-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	10-30-13	GIE	ISSUE FOR USE	1110415		
1	10-31-13	GIE	ISSUE FOR USE	1110415		

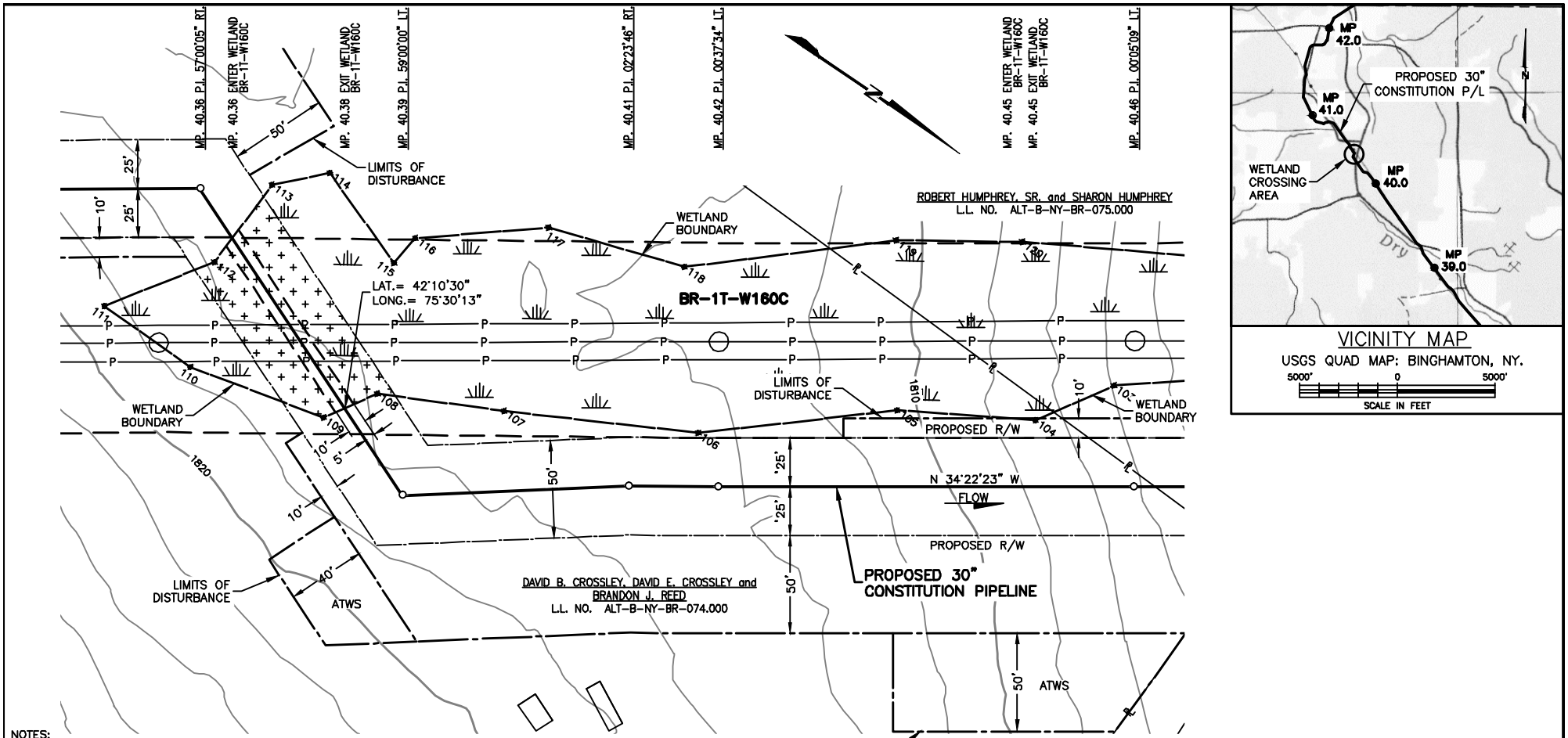
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1C-W251 @ M.P. 39.62
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-14-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-20-85/BR-1C-W251-1-1	SHEET 130 OF 362
WO: 1110415			



NOTES:

1. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE COORDINATE SYSTEM, UTM 18N NAD83, NAVD88 US SURVEY FEET.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
3. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
4. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN THE ECP BMP TYPICAL DETAILS.
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7. SEE SHEET 132 FOR PROFILE

Wetland ID	Wetland Class	Crossing Length (feet)	Wetland Impact (acres)					State Wetland Classification	NYSDEC Regulated Wetland (Y/N)	Crossing Method
			Construction			Operation				
			PFO	PSS	PEM	PFO	PSS			
BR-1T-W160C	PEM	104			0.13			N/A	N	Conventional

TROY L. KENNEDY JR
N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-41	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
8	08-15-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-05-13	GIE	REVISED - ISSUED FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WETLAND CROSSING BR-1T-W160C @ M.P. 40.36
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 06-06-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-20-85/BR-1T-W160C-1-3	SHEET 131 OF 362
WO: 1110415			