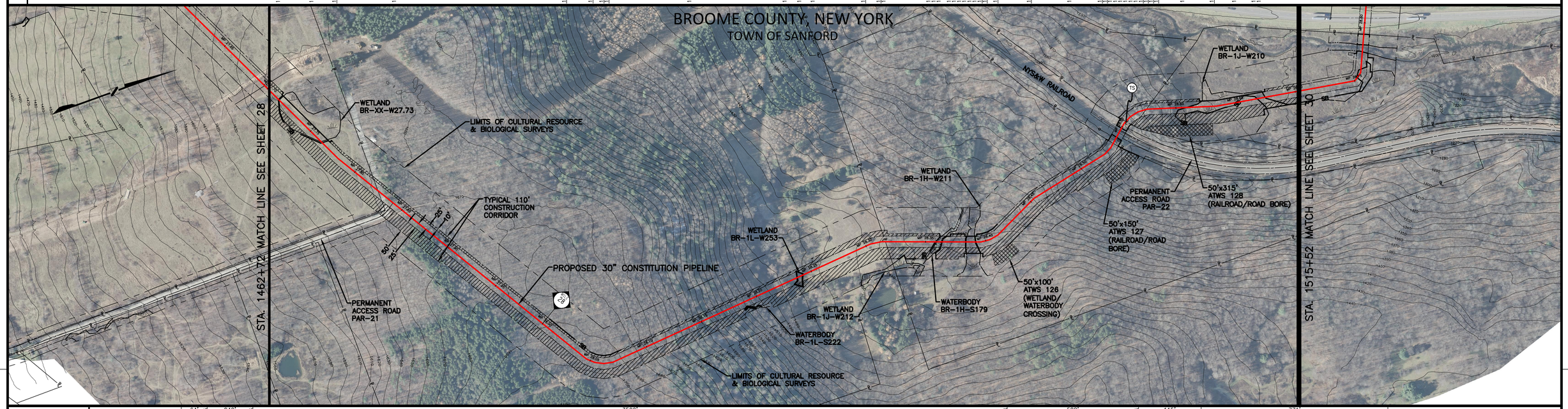
LINE LIST	
	1462+72
	ALT-B-NY-BR-012.000
	1469+13
	ALT-B-NY-BR-012.001
	1495+12
	ALT-B-NY-BR-014.001
	NYS&W RR
	1506+62
	1507+72
	ALT-B-NY-BR-014.003
	1508+78
	ALT-B-NY-BR-020.002
	1515+52

PIPELINE STATIONING	
1463+27	ENTER WETLAND BR-XX-W27.73
1465+85	EXIT WETLAND BR-XX-W27.73
1466+90	P.I. 52°43'16" LT
1470+52	℄ GRASS FARM ROAD
1480+86	P.I. 15°52'48" LT
1481+26	P.I. 15°52'48" LT
1481+66	P.I. 15°52'48" LT
1482+06	P.I. 15°52'48" LT
1486+28	℄ DIRT DRIVEWAY
1490+95	ENTER WETLAND BR-1L-W253
1491+17	EXIT WETLAND BR-1L-W253
1491+81	ENTER AGRICULTURAL LAND
1494+46	P.I. 12°24'58" RG
1494+95	P.I. 12°24'58" RG
1495+30	EXIT AGRICULTURAL LAND
1497+30	TOP OF SLOPE
1497+39	ENTER WATERBODY BR-1H-S179
1497+45	TOE OF SLOPE
1497+54	TOP OF SLOPE
1497+63	EXIT WATERBODY BR-1H-S179
1498+04	TOE OF SLOPE
1498+06	℄ DIRT DRIVEWAY
1498+66	ENTER WETLAND BR-1H-W211
1498+91	EXIT WETLAND BR-1H-W211
1499+31	P.I. 15°08'24" LT
1500+11	P.I. 15°08'24" LT
1502+36	P.I. 13°14'21" RG
1504+50	℄ DIRT TRAIL
1506+01	P.I. 14°47'58" LT
1506+21	P.I. 14°47'58" LT
1506+35	P.I. 14°47'58" LT
1506+85	UTILITY POWER LINE
1507+13	℄ NYS&W RR
1507+22	EXISTING FENCE
1507+61	P.I. 14°45'00" RG
1507+81	P.I. 14°45'00" RG
1508+21	P.I. 14°45'00" RG
1508+62	P.I. 14°45'00" RG
1510+55	ENTER WETLAND BR-1J-W210
1511+86	P.I. 8°00'00" LT
1512+82	EXIT WETLAND BR-1J-W210
1513+67	ENTER WETLAND BR-1J-W210
1514+02	EXIT WETLAND BR-1J-W210

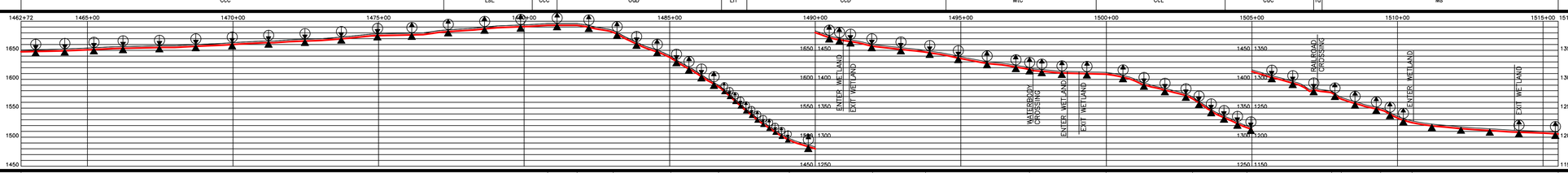


MATERIAL	64' (1) 1463+36; 240' (5) 1465+76; 3502' (1); 1500+76; 588' (2); 1506+18 2+22'4; 1506+66; 115' (8); 1507+81; 771' (2)
CLASS LOCATION	1
LAND USE	OL; PSS; OL; UF OL; UF; IR; UF; PEM UF; AG; UF; WB UF IR PSS; IR; UF; ID; UF; OL; PEM; OL; PEM; OL
ENVIRONMENTAL SITE SPECIFIC E & S	3 12 13 14 18 / 19 28 34 37 40 / 46 58A 90 91; 3 12 13 14 18 / 19 28 34 37 40 / 46 58A 90 91; 2A 5 6 7 18 / 19 29 29A 32 33 34 / 35 37 40 58 73; 3 12 13 14 18 / 19 28 34 37 40 / 46 58A 90 91; 4; 3 12 13 14 18 / 19 28 34 37 40 / 46 58A 90 91
DEPTH OF COVER	4'; 3'; 4'; 3'; 5'; 3'; 4'; 3'; 4'; 3'; 4'
SOIL TYPE	CcC; LsE; CcC; OuD; LrF; CcD; MtC; CcE; CuC; Ta; Ms

GENERAL E & S FIGURES
18 19 28 29 29A 30 31
37 59 74 75 76 77 86

PROFILE — VERTICAL SCALE IN FEET (0, 100, 200)

GENERAL NOTES
1. THE BEST MANAGEMENT PRACTICE (BMP) NUMBERS NOTED ABOVE CORRESPOND TO SPECIFIC DETAILS FOUND ON THE BEST MANAGEMENT PRACTICE DETAIL SHEETS. THE BMP DETAILS INCLUDE GENERAL LAYOUT, LOCATION, DIMENSIONS, CONSTRUCTION NOTES, MATERIALS, ETC. THAT SHOULD BE FOLLOWED DURING CONSTRUCTION OF THE PIPELINE.
2. THE APPROXIMATE LOCATION AND TYPE OF SEDIMENT BARRIERS TO BE INSTALLED ALONG THE CONSTRUCTION WORKSPACE ARE LOCATED IN TABLES ON THE BEST MANAGEMENT PRACTICE DETAIL SHEETS. THE ACTUAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.
3. TEMPORARY AND PERMANENT SLOPE BREAKER SPACING IS THE SAME. SLOPE BREAKERS SHALL BE MAINTAINED IN PLACE AT ALL TIMES.



THE LOCATIONS OF TRENCH BREAKERS AND SLOPE BREAKERS SHOWN ON THE PROFILE ARE PROVIDED AS A GENERAL GUIDE. THE ACTUAL LOCATION OF THE BREAKERS SHALL BE DETERMINED IN THE FIELD BASED ON FIELD CONDITIONS BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

PERMANENT SLOPE BREAKERS (ARROW INDICATES PLAN VIEW FLOW DIRECTION)

PERMANENT TRENCH BREAKER

*AT A MINIMUM, TRENCH BREAKERS AND SLOPE BREAKERS SHALL BE LOCATED WITHIN 50 FT. OF THE EDGE (BOTH SIDES) OF WETLANDS AND WATERBODIES. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

PERMANENT TRENCH BREAKER SPACING IN AGRICULTURAL LAND

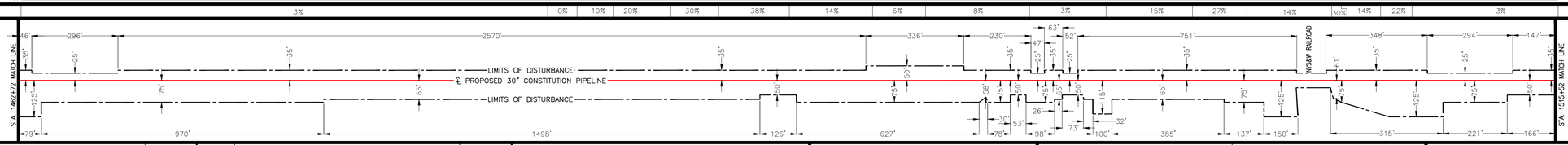
SLOPE (%)	SPACING (FT)
<5	AS REQ.
5–10	150
>10–15	100
>15–20	80
>20–30	70
>30–40	50
>40–100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING

SLOPE (%)	SPACING (FT)
<5	125
5–10	100
>10–20	75
>20–35	50
>35	25

AVERAGE % SLOPE	
	3%; 0%; 10%; 20%; 30%; 38%; 14%; 6%; 8%; 3%; 15%; 27%; 14%; 30%; 14%; 22%; 3%

WORKSPACE SCHEMATIC



MATERIAL SUMMARY

ITEM NO.	DESCRIPTION	QTY.	ITEM NO.	DESCRIPTION	QTY.
1	PIPE, 30" OD, 0.529" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	3566'			
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	1359'			
3	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	0'			
4	PIPE, 30" OD, 0.635" WT., X-70, w/10 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING	0'			
5	PIPE, 30" OD, 0.529" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	240'			
6	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'			
7	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'			
8	PIPE, 30" OD, 0.750" WT., X-70, w/10 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING	115'			

SOIL LEGEND

CcC – Cattaraugus channery silt loam
CcD – Cattaraugus channery silt loam
CcE – Cattaraugus channery silt loam
CuC – Culvers channery silt loam
LrF – Lordstown and Oquaga soils
LsE – Lordstown and Oquaga extremely stony and rocky soils
Ms – Middlebury silt loam
MtC – Morris channery silt loam
OuD – Oquaga channery silt loam
Ta – Tioga silt loam

LAND USE LEGEND

1. AGRICULTURAL LAND (AG)
2. INDUSTRIAL (ID)
3. COMMERCIAL (CM)
4. RESIDENTIAL (RE)
5. ROADS (RD)
6. OPEN WATER (OW)
7. SAND/GRAVEL PITS OR QUARRIES (SG)
8. OPEN LAND (EXISTING ROW, OPEN FIELDS, NON-AGRICULTURE) (OL)
9. SPECIAL USE (PARKS, GOLF COURSES, MUNICIPAL LAND, ETC.) (SP)
10. FORESTED WETLANDS (PFO)
11. SCRUB-SHRUB WETLANDS (PSS)
12. EMERGENT WETLANDS (PEM)
13. WATERBODY (WB)
14. UPLAND FOREST (UF)
15. INTERIOR FOREST (IR)

0 200 400 600
SCALE IN FEET

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

DRAWING NO.	REFERENCE TITLE
26-27-70/001 THRU 26-27-70/022 26-08-85/ALT-B-NY-BR-014.006-1-B	TYPICAL RIGHT-OF-WAY CROSS SECTIONS NYS&W RAILROAD

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK	APP
3	07/24/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #1 ER	1110415	JRL	TK
4	10/07/13	GIE	ISSUED FOR BID #1	1110415	JRL	TK
5	11/08/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #2 ER	1110415	JRL	TK
6	06/02/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #3 ER	1110415	JRL	TK
7B	07/14/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #4 ER/IFB #3	1110415	JRL	TK

CONSTITUTION PIPELINE COMPANY, LLC
SOIL EROSION AND SEDIMENT CONTROL PLAN
FERC ALIGNMENT SHEETS
PROPOSED 30" NATURAL GAS PIPELINE
STA. 1462+72 TO STA. 1515+52
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 09/26/12	ISSUED FOR BID:	SCALE: 1" = 200'
CHECKED BY: GIE	DATE: 09/27/12	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-03-70/0001	SHEET 29 OF 126
W.O.: 1110415			

LINE LIST: 1515+52, 1520+13, 1522+67, 1528+15, 1529+03, 1533+76, 1535+65, 1539+36, 1542+05, 1543+72, 1568+78, 1569+52

ALT-B-NY-BR-020.002 | STATE HWY. 17 | ALT-B-NY-BR-015.000 | COUNTY ROAD 28 (OLD ROUTE 17) | ALT-B-NY-BR-015.001 | ALT-B-NY-BR-016.002 | ALT-B-NY-BR-016.003 | ALT-B-NY-BR-016.002 | TENNENT ROAD | ALT-B-NY-BR-018.000 | ALT-B-NY-BR-020.000

PIPELINE STATIONING

MATERIAL: 383' (2) | 340' (4) | 532' (2) | 95' (4) | 1299' (2) | 210' (4) | 2541' (2)

CLASS LOCATION: 1

LAND USE

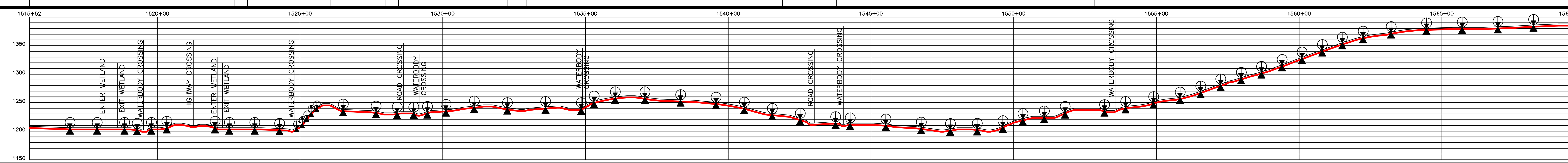
ENVIRONMENTAL SITE SPECIFIC E & S

GENERAL E & S FIGURES

18	19	28	29	29A	30	31
37	59	74	75	76	77	86

DEPTH OF COVER

SOIL TYPE: Ms | Cw | Ms | ChD | ChC | ChD | CcE | ChD | Tg | ChD | CcC



PROFILE — VERTICAL SCALE IN FEET (0, 100, 200)

GENERAL NOTES
1. THE BEST MANAGEMENT PRACTICE (BMP) NUMBERS NOTED ABOVE CORRESPOND TO SPECIFIC DETAILS FOUND ON THE BEST MANAGEMENT PRACTICE DETAIL SHEETS. THE BMP DETAILS INCLUDE GENERAL LAYOUT, LOCATION, DIMENSIONS, CONSTRUCTION NOTES, MATERIALS, ETC. THAT SHOULD BE FOLLOWED DURING CONSTRUCTION OF THE PIPELINE.
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3. TEMPORARY AND PERMANENT SLOPE BREAKER SPACING IS THE SAME. SLOPE BREAKERS SHALL BE MAINTAINED IN PLACE AT ALL TIMES.

THE LOCATIONS OF TRENCH BREAKERS AND SLOPE BREAKERS SHOWN ON THE PROFILE SHALL BE USED AS A GUIDELINE ONLY. THE ACTUAL LOCATION OF THE BREAKERS SHALL BE DETERMINED IN THE FIELD BASED ON FIELD CONDITIONS BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

PERMANENT SLOPE BREAKERS (ARROW INDICATES PLAN VIEW FLOW DIRECTION)

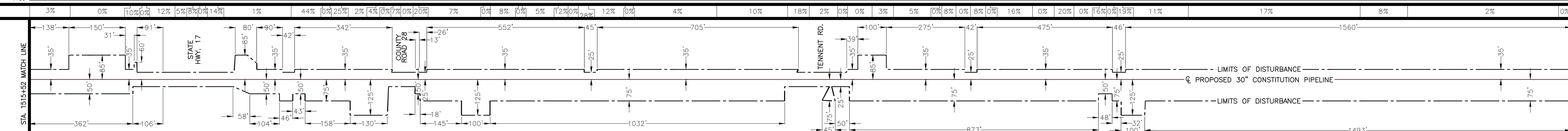
PERMANENT TRENCH BREAKER

*AT A MINIMUM, TRENCH BREAKERS AND SLOPE BREAKERS SHALL BE LOCATED WITHIN 50 FT. OF THE EDGE (BOTH SIDES) OF WETLANDS AND WATERBODIES. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR..

PERMANENT TRENCH BREAKER SPACING IN AGRICULTURAL LAND	
SLOPE (%)	SPACING (FT)
<5	AS REQ.
5–10	150
>10–15	100
>15–20	80
>20–30	70
>30–40	50
>40–100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING	
SLOPE (%)	SPACING (FT)
<5	125
5–10	100
>10–20	75
>20–35	50
>35	25

AVERAGE % SLOPE



MATERIAL SUMMARY

ITEM NO.	DESCRIPTION	QTY.	ITEM NO.	DESCRIPTION	QTY.
1	PIPE, 30" OD, 0.529" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	0'			
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	4755'			
3	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	0'			
4	PIPE, 30" OD, 0.635" WT., X-70, w/10 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING	645'			
5	PIPE, 30" OD, 0.529" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'			
6	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'			
7	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'			
8	PIPE, 30" OD, 0.750" WT., X-70, w/10 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING	0'			

SOIL LEGEND
CcC – Cattaraugus channery silt loam
CcE – Cattaraugus channery silt loam
ChC – Chenango and Howard gravelly loams
ChD – Chenango and Howard gravelly loams
Cw – Cut and fill lands, gravelly materials
Ms – Middlebury silt loam
Tg – Tioga gravelly silt loam

LAND USE LEGEND
1. AGRICULTURAL LAND (AG)
2. INDUSTRIAL (ID)
3. COMMERCIAL (CM)
4. RESIDENTIAL (RE)
5. ROADS (RD)
6. OPEN WATER (OW)
7. SAND/GRAVEL PITS OR QUARRIES (SG)
8. OPEN LAND (EXISTING ROW, OPEN FIELDS, NON-AGRICULTURE) (OL)
9. SPECIAL USE (PARKS, GOLF COURSES, MUNICIPAL LAND, ETC.) (SP)
10. FORESTED WETLANDS (PFO)
11. SCRUB-SHRUB WETLANDS (PSS)
12. EMERGENT WETLANDS (PEM)
13. WATERBODY (WB)
14. UPLAND FOREST (UF)
15. INTERIOR FOREST (IR)

0 200 400 600
SCALE IN FEET

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

DRAWING NO.	REFERENCE TITLE
26-27-70/001 THRU 26-27-70/022	TYPICAL RIGHT-OF-WAY CROSS SECTIONS
26-07-85/ALT-B-NY-BR-020.005-1-C	STATE HIGHWAY 17
26-07-85/ALT-B-NY-BR-015.006-1-B	COUNTY ROAD 28
26-07-85/ALT-B-NY-BR-016.017-1-B	TENNANT ROAD

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
3	07/24/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #1 ER	1110415	JRL	TK
4	10/07/13	GIE	ISSUED FOR BID #1	1110415	JRL	TK
5	11/08/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #2 ER	1110415	JRL	TK
6	06/02/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #3 ER	1110415	JRL	TK
7B	07/14/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #4 ER/IFB #3	1110415	JRL	TK

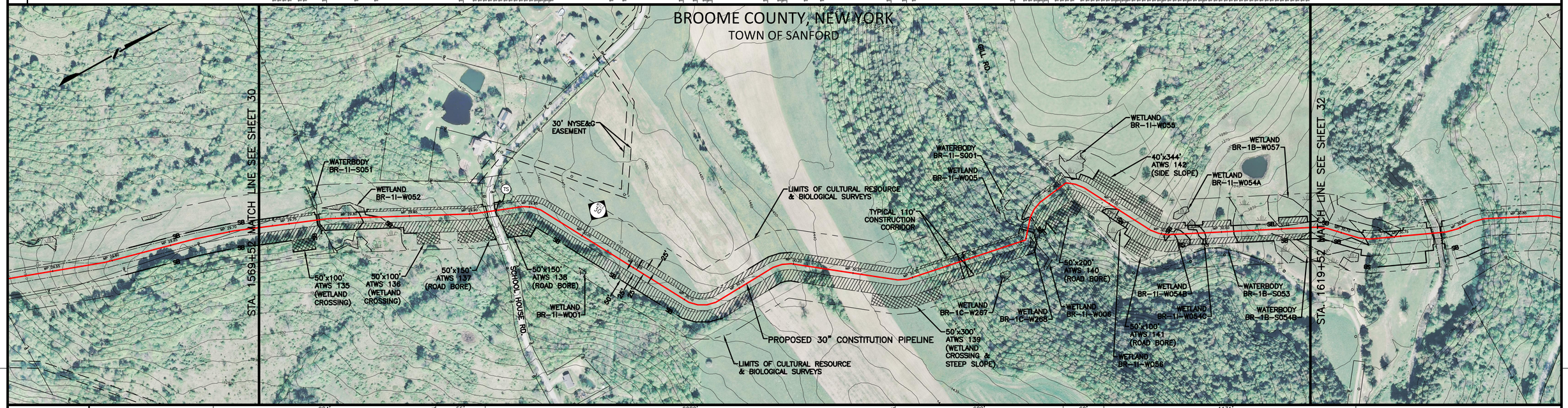
CONSTITUTION PIPELINE COMPANY, LLC
SOIL EROSION AND SEDIMENT CONTROL PLAN
FERC ALIGNMENT SHEETS
PROPOSED 30" NATURAL GAS PIPELINE
STA. 1515+52 TO STA. 1569+52
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 09/26/12	ISSUED FOR BID:	SCALE: 1" = 200'
CHECKED BY: GIE	DATE: 09/27/12	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-03-70/0001	SHEET 30 OF 126
WO: 1110415			

LINE LIST

PIPELINE STATIONING



MATERIAL

CLASS LOCATION

LAND USE

ENVIRONMENTAL SITE SPECIFIC E & S

DEPTH OF COVER

SOIL TYPE

GENERAL E & S FIGURES

PROFILE

VERTICAL SCALE IN FEET

GENERAL NOTES

1. THE BEST MANAGEMENT PRACTICE (BMP) NUMBERS NOTED ABOVE CORRESPOND TO SPECIFIC DETAILS FOUND ON THE BEST MANAGEMENT PRACTICE DETAIL SHEETS. THE BMP DETAILS INCLUDE GENERAL LAYOUT, LOCATION, DIMENSIONS, CONSTRUCTION NOTES, MATERIALS, ETC. THAT SHOULD BE FOLLOWED DURING CONSTRUCTION OF THE PIPELINE.
2. THE APPROXIMATE LOCATION AND TYPE OF SEDIMENT BARRIERS TO BE INSTALLED ALONG THE CONSTRUCTION WORKSPACE ARE LOCATED IN TABLES ON THE BEST MANAGEMENT PRACTICE DETAIL SHEETS. THE ACTUAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.
3. TEMPORARY AND PERMANENT SLOPE BREAKER SPACING IS THE SAME. SLOPE BREAKERS SHALL BE MAINTAINED IN PLACE AT ALL TIMES.

THE LOCATIONS OF TRENCH BREAKERS AND SLOPE BREAKERS SHOWN ON THE PROFILE ARE SHOWN AS A GUIDELINE ONLY. THE ACTUAL LOCATION OF THE BREAKERS SHALL BE DETERMINED IN THE FIELD BASED ON FIELD CONDITIONS BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

PERMANENT SLOPE BREAKERS (ARROW INDICATES PLAN VIEW FLOW DIRECTION)

PERMANENT TRENCH BREAKER

*AT A MINIMUM, TRENCH BREAKERS AND SLOPE BREAKERS SHALL BE LOCATED WITHIN 50 FT. OF THE EDGE (BOTH SIDES) OF WETLANDS AND WATERBODIES. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

PERMANENT TRENCH BREAKER SPACING IN AGRICULTURAL LAND

SLOPE (%)	SPACING (FT)
<5	AS REQ.
5–10	150
>10–15	100
>15–20	80
>20–30	70
>30–40	50
>40–100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING

SLOPE (%)	SPACING (FT)
<5	125
5–10	100
>10–20	75
>20–35	50
>35	25

AVERAGE % SLOPE

WORKSPACE SCHEMATIC

STA. 1569+52 MATCH LINE

LIMITS OF DISTURBANCE

℄ PROPOSED 30" CONSTITUTION PIPELINE

LIMITS OF DISTURBANCE

MATERIAL SUMMARY

ITEM NO.	DESCRIPTION	QTY.
1	PIPE, 30" OD, 0.529" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	2082'
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	2803'
3	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	0'
4	PIPE, 30" OD, 0.635" WT., X-70, w/10 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING	115'
5	PIPE, 30" OD, 0.529" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'
6	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'
7	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'
8	PIPE, 30" OD, 0.750" WT., X-70, w/10 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING	0'

SOIL LEGEND

CcC – Cattaraugus channery silt loam
CcD – Cattaraugus channery silt loam
CuB – Culvers channery silt loam
LdC – Lordstown channery silt loam
LdD – Lordstown channery silt
LoE – Lordstown and Oquaga channery silt loams
MtC – Morris channery silt loam

LAND USE LEGEND

1. AGRICULTURAL LAND (AG)
2. INDUSTRIAL (ID)
3. COMMERCIAL (CM)
4. RESIDENTIAL (RE)
5. ROADS (RD)
6. OPEN WATER (OW)
7. SAND/GRAVEL PITS OR QUARRIES (SG)
8. OPEN LAND (EXISTING ROW, OPEN FIELDS, NON-AGRICULTURE) (OL)
9. SPECIAL USE (PARKS, GOLF COURSES, MUNICIPAL LAND, ETC.) (SP)
10. FORESTED WETLANDS (PFO)
11. SCRUB-SHRUB WETLANDS (PSS)
12. EMERGENT WETLANDS (PEM)
13. WATERBODY (WB)
14. UPLAND FOREST (UF)
15. INTERIOR FOREST (IR)

0 200 400 600
SCALE IN FEET

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

DRAWING NO.	REFERENCE TITLE
26–27–70/001 THRU 26–27–70/022 26–07–85/ALT–B–NY–BR–020.008–1–B 26–07–85/ALT–B–NY–BR–020.011–1–B	TYPICAL RIGHT–OF–WAY CROSS SECTIONS SCHOOL HOUSE ROAD GILL ROAD

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK	APP
3	07/24/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #1 ER	1110415	JRL	TK
4	10/07/13	GIE	ISSUED FOR BID #1	1110415	JRL	TK
5	11/08/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #2 ER	1110415	JRL	TK
6	06/02/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #3 ER	1110415	JRL	TK
7B	07/14/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #4 ER/IFB #3	1110415	JRL	TK

CONSTITUTION PIPELINE COMPANY, LLC
SOIL EROSION AND SEDIMENT CONTROL PLAN
FERC ALIGNMENT SHEETS
PROPOSED 30" NATURAL GAS PIPELINE
STA. 1569+52 TO STA. 1619+52
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 09/26/12	ISSUED FOR BID:	SCALE: 1" = 200'
CHECKED BY: GIE	DATE: 09/27/12	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26–03–70/0001	SHEET 31 OF 126
WO: 1110415			

MATERIAL

CLASS LOCATION

LAND USE

ENVIRONMENTAL SITE SPECIFIC E & S

DEPTH OF COVER

SOIL TYPE

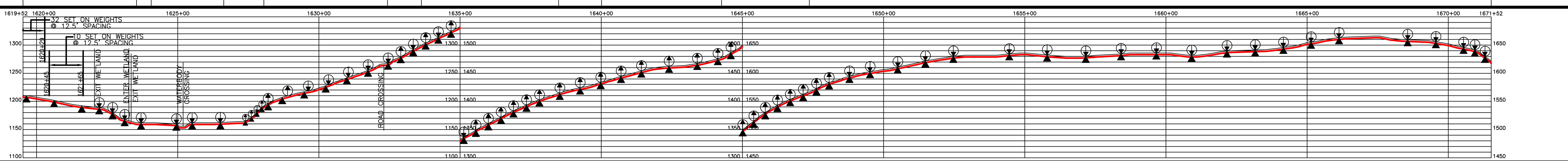
GENERAL E & S FIGURES

18	19	28	29	29A	30	31
37	59	74	75	76	77	86

PROFILE

VERTICAL SCALE IN FEET

GENERAL NOTES
1. THE BEST MANAGEMENT PRACTICE (BMP) NUMBERS NOTED ABOVE CORRESPOND TO SPECIFIC DETAILS FOUND ON THE BEST MANAGEMENT PRACTICE DETAIL SHEETS. THE BMP DETAILS INCLUDE GENERAL LAYOUT, LOCATION, DIMENSIONS, CONSTRUCTION NOTES, MATERIALS, ETC. THAT SHOULD BE FOLLOWED DURING CONSTRUCTION OF THE PIPELINE.
2. THE APPROXIMATE LOCATION AND TYPE OF SEDIMENT BARRIERS TO BE INSTALLED ALONG THE CONSTRUCTION WORKSPACE ARE LOCATED IN TABLES ON THE BEST MANAGEMENT PRACTICE DETAIL SHEETS. THE ACTUAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.
3. TEMPORARY AND PERMANENT SLOPE BREAKER SPACING IS THE SAME. SLOPE BREAKERS SHALL BE MAINTAINED IN PLACE AT ALL TIMES.



THE LOCATIONS OF TRENCH BREAKERS AND SLOPE BREAKERS SHOWN ON THE PROFILE SHALL BE USED AS A GUIDELINE ONLY. THE ACTUAL LOCATION OF THE BREAKERS SHALL BE DETERMINED IN THE FIELD BASED ON FIELD CONDITIONS BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

PERMANENT SLOPE BREAKERS (ARROW INDICATES PLAN VIEW FLOW DIRECTION)

PERMANENT TRENCH BREAKER

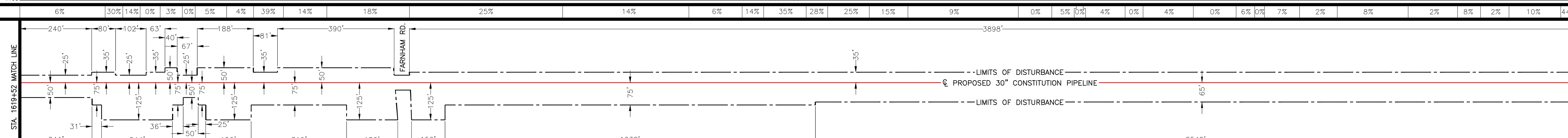
*AT A MINIMUM, TRENCH BREAKERS AND SLOPE BREAKERS SHALL BE LOCATED WITHIN 50 FT. OF THE EDGE (BOTH SIDES) OF WETLANDS AND WATERBODIES. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR..

PERMANENT TRENCH BREAKER SPACING IN AGRICULTURAL LAND	
SLOPE (%)	SPACING (FT)
<5	AS REQ.
5–10	150
>10–15	100
>15–20	80
>20–30	70
>30–40	50
>40–100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING	
SLOPE (%)	SPACING (FT)
<5	125
5–10	100
>10–20	75
>20–35	50
>35	25

AVERAGE % SLOPE

WORKSPACE SCHEMATIC



MATERIAL SUMMARY

ITEM NO.	DESCRIPTION	QTY.	ITEM NO.	DESCRIPTION	QTY.
1	PIPE, 30" OD, 0.529" WT., X–70, w/15–17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	3364'			
2	PIPE, 30" OD, 0.562" WT., X–70, w/15–17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	1781'			
3	PIPE, 30" OD, 0.635" WT., X–70, w/15–17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	0'			
4	PIPE, 30" OD, 0.635" WT., X–70, w/10 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING	55'			
5	PIPE, 30" OD, 0.529" WT., X–70, w/15–17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'			
6	PIPE, 30" OD, 0.562" WT., X–70, w/15–17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'			
7	PIPE, 30" OD, 0.635" WT., X–70, w/15–17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'			
8	PIPE, 30" OD, 0.750" WT., X–70, w/10 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING	0'			

SOIL LEGEND

Ad – Alluvial lan
CcD – Cattaraugus channery silt loam
CcE – Cattaraugus channery silt loam
CuB – Culvers channery silt loam
CuC – Culvers channery silt loam, 8 to 15 percent slopes
LsE – Lordstown and Oquaga extremely stony and rocky soils
MhD – Mardin channery silt loam
MtC – Morris channery silt loam
Ta – Tioga silt loam

LAND USE LEGEND

1. AGRICULTURAL LAND (AG)
2. INDUSTRIAL (ID)
3. COMMERCIAL (CM)
4. RESIDENTIAL (RE)
5. ROADS (RD)
6. OPEN WATER (OW)
7. SAND/GRAVEL PITS OR QUARRIES (SG)
8. OPEN LAND (EXISTING ROW, OPEN FIELDS, NON-AGRICULTURE) (OL)
9. SPECIAL USE (PARKS, GOLF COURSES, MUNICIPAL LAND, ETC.) (SP)
10. FORESTED WETLANDS (PFO)
11. SCRUB-SHRUB WETLANDS (PSS)
12. EMERGENT WETLANDS (PEM)
13. WATERBODY (WB)
14. UPLAND FOREST (UF)
15. INTERIOR FOREST (IR)

0 200 400 600
SCALE IN FEET

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

DRAWING NO.	REFERENCE TITLE
26–27–70/001 THRU 26–27–70/022 26–07–85/ALT–B–NY–BR–020.014–1–B	TYPICAL RIGHT–OF–WAY CROSS SECTIONS FARNHAM ROAD

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
3	07/24/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #1 ER	1110415	JRL	TK
4	10/07/13	GIE	ISSUED FOR BID #1	1110415	JRL	TK
5	11/08/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #2 ER	1110415	JRL	TK
6	06/02/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #3 ER	1110415	JRL	TK
7B	07/14/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #4 ER/IFB #3	1110415	JRL	TK

CONSTITUTION PIPELINE COMPANY, LLC
SOIL EROSION AND SEDIMENT CONTROL PLAN
FERC ALIGNMENT SHEETS
PROPOSED 30" NATURAL GAS PIPELINE
STA. 1619+52 TO STA. 1671+52
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 09/26/12	ISSUED FOR BID:	SCALE: 1" = 200'
CHECKED BY: GIE	DATE: 09/27/12	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26–03–70/0001	SHEET 32 OF 126
WO: 1110415			

LINE LIST

ALT-B-NY-BR-028.000 (DENIED SURVEY ACCESS) — BLINCO RD. — ALT-B-NY-BR-028.000 (DENIED SURVEY ACCESS) — ALT-B-UA-NY-BR-030.000 — ALT-B-NY-BR-028.000 (DENIED SURVEY ACCESS) — ALT-B-NY-BR-031.000

1671+52, 1683+54, 1684+08, 1696+21, 1697+69, 1701+33, 1726+00

PIPELINE STATIONING

1679+26 ℄ WATERBODY BR-XX-S31.66
1680+03 ENTER AGRICULTURAL LAND
1680+49 P.I. 14°27'34" LT.
1680+89 P.I. 14°27'34" LT.
1683+38 PP, 33' RT.
1683+51 UTILITY POWER LINE
1683+65 EXIT AGRICULTURAL LAND
1683+80 ℄ BLINCO RD.
1683+92 TOP OF SLOPE
1683+98 ENTER AGRICULTURAL LAND
1683+99 TOP OF SLOPE
1684+13 PP, 181' LT.
1690+97 P.I. 13°30'00" LT.
1691+38 P.I. 13°31'49" LT.
1691+78 P.I. 13°30'00" LT.
1693+63 EXIT AGRICULTURAL LAND
1698+00 P.I. 10°14'56" RT.
1698+59 P.I. 10°14'56" RT.
1710+41 TOE OF SLOPE
1710+47 TOP OF SLOPE
1711+58 ENTER WETLAND BR-1K-W172
1711+88 EXIT WETLAND BR-1K-W172
1712+10 ENTER WETLAND BR-1K-W172
1713+33 EXIT WETLAND BR-1K-W172
1714+69 P.I. 12°33'16" RT.
1715+09 P.I. 12°33'16" RT.
1715+91 P.I. 10°36'11" RT.

MATERIAL	519' ① · 1676+71 · 683' ② · 1683+54 · 55' ④ · 1684+09 · 1684+17 · 488' ② · 1688+97 · 2315' ① · 1712+12 · 120' ⑤ · 1713+32 · 976' ① · 1723+08 · 292' ②
CLASS LOCATION	1
LAND USE	IR · UF · WB · UF · AG · RD · AG · UF · IR · PFO · IR · PFO · UF
ENVIRONMENTAL SITE SPECIFIC E & S	2A 5 6 7 18 / 19 29 29A 32 33 34 / 35 37 40 58 73 · 15A / 44 45 · 3 12 13 14 18 / 19 28 34 37 40 / 46 58A 90 91
DEPTH OF COVER	3' · 5' · 4' · 5' · 4' · 3' · 4' · 3'
SOIL TYPE	LsE · Ad · MtB · CcD · MtC · MtB · LsE · LrF · CuD

GENERAL E & S FIGURES: 18 19 28 29 29A 30 31 / 37 59 74 75 76 77 86

PROFILE

VERTICAL SCALE IN FEET (0, 100, 200)

GENERAL NOTES
1. THE BEST MANAGEMENT PRACTICE (BMP) NUMBERS NOTED ABOVE CORRESPOND TO SPECIFIC DETAILS FOUND ON THE BEST MANAGEMENT PRACTICE DETAIL SHEETS. THE BMP DETAILS INCLUDE GENERAL LAYOUT, LOCATION, DIMENSIONS, CONSTRUCTION NOTES, MATERIALS, ETC. THAT SHOULD BE FOLLOWED DURING CONSTRUCTION OF THE PIPELINE.
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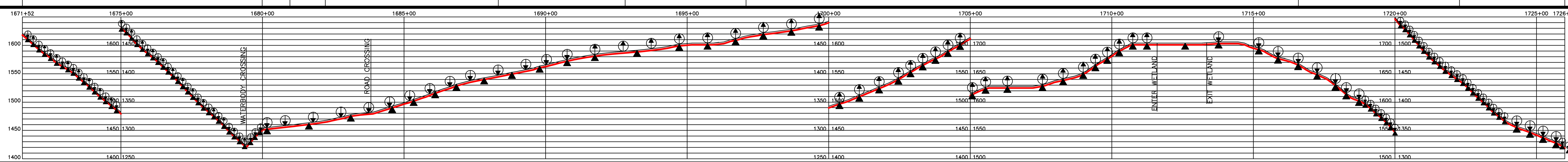

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PERMANENT SLOPE BREAKERS (ARROW INDICATES PLAN VIEW FLOW DIRECTION)

PERMANENT TRENCH BREAKER

*AT A MINIMUM, TRENCH BREAKERS AND SLOPE BREAKERS SHALL BE LOCATED WITHIN 50 FT. OF THE EDGE (BOTH SIDES) OF WETLANDS AND WATERBODIES. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR..

PERMANENT TRENCH BREAKER SPACING IN AGRICULTURAL LAND	
SLOPE (%)	SPACING (FT)
<5	AS REQ.
5–10	150
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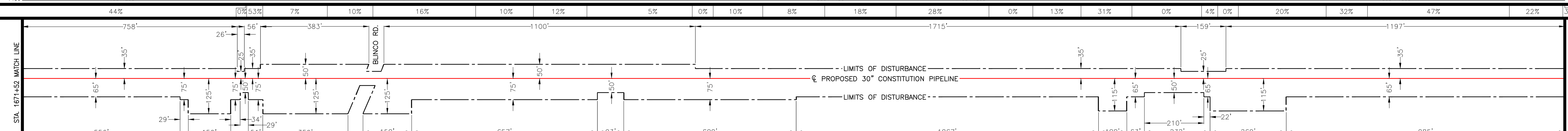
>15–20	80
>20–30	70
>30–40	50
>40–100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING	
SLOPE (%)	SPACING (FT)
<5	125
5–10	100
>10–20	75
>20–35	50
>35	25

AVERAGE % SLOPE: 44% · 0% · 53% · 7% · 10% · 16% · 10% · 12% · 5% · 0% · 10% · 8% · 18% · 28% · 0% · 13% · 31% · 0% · 4% · 0% · 20% · 32% · 47% · 22% · 36%

WORKSPACE SCHEMATIC



MATERIAL SUMMARY

ITEM NO.	DESCRIPTION	QTY.	ITEM NO.	DESCRIPTION	QTY.
1	PIPE, 30" OD, 0.529" WT., X–70, w/15–17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	3810'			
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3	PIPE, 30" OD, 0.635" WT., X–70, w/15–17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	0'			
4	PIPE, 30" OD, 0.635" WT., X–70, w/10 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING	55'			
5	PIPE, 30" OD, 0.529" WT., X–70, w/15–17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	120'			
6	PIPE, 30" OD, 0.562" WT., X–70, w/15–17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'			
7	PIPE, 30" OD, 0.635" WT., X–70, w/15–17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'			
8	PIPE, 30" OD, 0.750" WT., X–70, w/10 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING	0'			

SOIL LEGEND

Ad – Alluvial land
CcD – Cattaraugus channery silt loam
CuD – Culvers channery silt loam
LrF – Lordstown and Oquaga soils
LsE – Lordstown and Oquaga extremely stony and rocky soils
MtB – Morris channery silt loam
MtC – Morris channery silt loam

LAND USE LEGEND

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2. INDUSTRIAL (ID)
3. COMMERCIAL (CM)
4. RESIDENTIAL (RE)
5. ROADS (RD)
6. OPEN WATER (OW)
7. SAND/GRAVEL PITS OR QUARRIES (SG)
8. OPEN LAND (EXISTING ROW, OPEN FIELDS, NON-AGRICULTURE) (OL)
9. SPECIAL USE (PARKS, GOLF COURSES, MUNICIPAL LAND, ETC.) (SP)
10. FORESTED WETLANDS (PFO)
11. SCRUB-SHRUB WETLANDS (PSS)
12. EMERGENT WETLANDS (PEM)
13. WATERBODY (WB)
14. UPLAND FOREST (UF)
15. INTERIOR FOREST (IR)

0 200 400 600
SCALE IN FEET

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

DRAWING NO.	REFERENCE TITLE
26–27–70/001 THRU 26–27–70/022 26–07–85/ALT–B–NY–BR–028.003–1–B	TYPICAL RIGHT–OF–WAY CROSS SECTIONS BLINCO ROAD

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
3	07/24/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #1 ER	1110415	JRL	TK
4	10/07/13	GIE	ISSUED FOR BID #1	1110415	JRL	TK
5	11/08/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #2 ER	1110415	JRL	TK
6	06/02/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #3 ER	1110415	JRL	TK
7B	07/14/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #4 ER/IFB #3	1110415	JRL	TK

CONSTITUTION PIPELINE COMPANY, LLC
SOIL EROSION AND SEDIMENT CONTROL PLAN
FERC ALIGNMENT SHEETS
PROPOSED 30" NATURAL GAS PIPELINE
STA. 1671+52 TO STA. 1726+00
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 09/26/12	ISSUED FOR BID:	SCALE: 1" = 200'
CHECKED BY: GIE	DATE: 09/27/12	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26–03–70/0001	SHEET 33 OF 126
WO: 1110415			