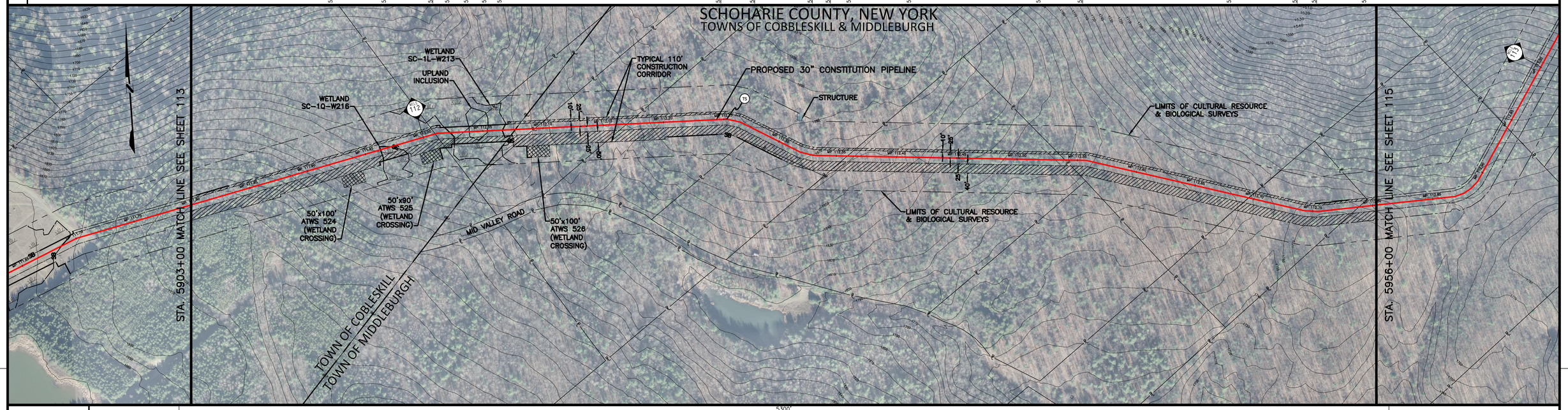
LINE LIST	
5903+00	
ALT-0-NY-SC-012.000	
5914+14	
ALT-0-NY-SC-013.000 / ALT-0-NY-SC-013.001	
5915+41	
5917+66	
ALT-0-NY-SC-013.002	
5918+51	
ALT-0-NY-SC-013.003	
5922+55	
ALT-0-NY-SC-013.004	
5932+56	
ALT-0-NY-SC-013.005	
5942+10	
ALT-0-NY-SC-013.006	
5950+32	
ALT-0-NY-SC-013.007	
ALT-0-NY-SC-013.008	
5955+24	
5956+00	

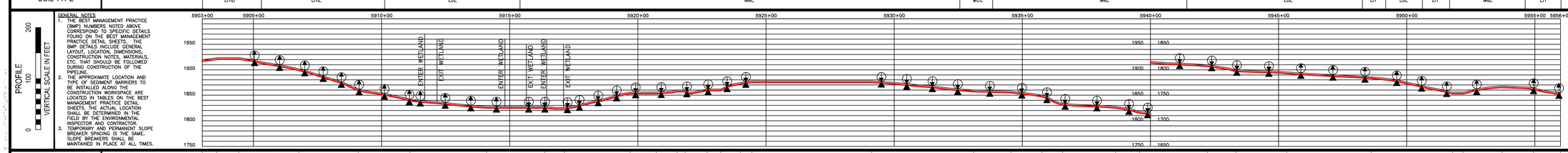
PIPELINE STATIONING	
5911+65	ENTER WETLAND SC-1Q-W216
5912+15	EXIT WETLAND SC-1Q-W216
5914+23	P.I. 13°25'20" RT.
5914+81	ENTER WETLAND SC-1L-W213
5915+65	EXIT WETLAND SC-1L-W213
5916+44	ENTER WETLAND SC-1L-W213
5917+10	EXIT WETLAND SC-1L-W213
5926+94	P.I. 14°39'52" RT.
5927+52	P.I. 14°39'52" RT.
5930+49	P.I. 12°43'37" LT.
5931+08	P.I. 12°43'37" LT.
5932+88	℄ STONE ROW
5935+63	℄ STONE ROW
5941+69	℄ STONE ROW
5943+03	P.I. 11°54'48" RT.
5950+33	℄ STONE ROW
5952+82	P.I. 9°36'22" LT.
5953+41	P.I. 9°36'22" LT.
5955+79	℄ STONE ROW



MATERIAL	5300' ①
CLASS LOCATION	1
LAND USE	IR; PFO; IR; PFO; UF; PFO; UF; IR
ENVIRONMENTAL SITE SPECIFIC E & S	3 12 13 14 18 / 19 29 34 37 40 / 46 58A 90 91; 3 12 13 14 18 / 19 29 34 37 40 / 46 58A 90 91
DEPTH OF COVER	3'; 4'; 3'; 4'; 3'
SOIL TYPE	LmD; LmE; LoE; MeE; McC; MeE; LoE; LrF; LoE; LrF; MeE; LrF

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

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 GUIDE ONLY. THE ACTUAL LOCATION OF TRENCH 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	7%	0%	10%	17%	10%	5%	0%	3%	12%	0%	5%	0%	9%	0%	16%	7%	0%	5%	1%	7%	20%	3%	11%	3%	9%	2%	3%	8%	0%	8%	3%	8%

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	5300'			
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	0'			
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	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
LmD – Lordstown channery silt loam
LmE – Lordstown channery silt loam
LoE – Lordstown and Oquaga very stony soils
LrF – Lordstown, Oquaga and Nassau soils
McC – Mardin channery silt loam
MeE – Mardin and Culvers very stony soils

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

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. 5903+00 TO STA. 5956+00
SCHOHARIE COUNTY, NEW YORK

CONSTITUTION PIPELINE

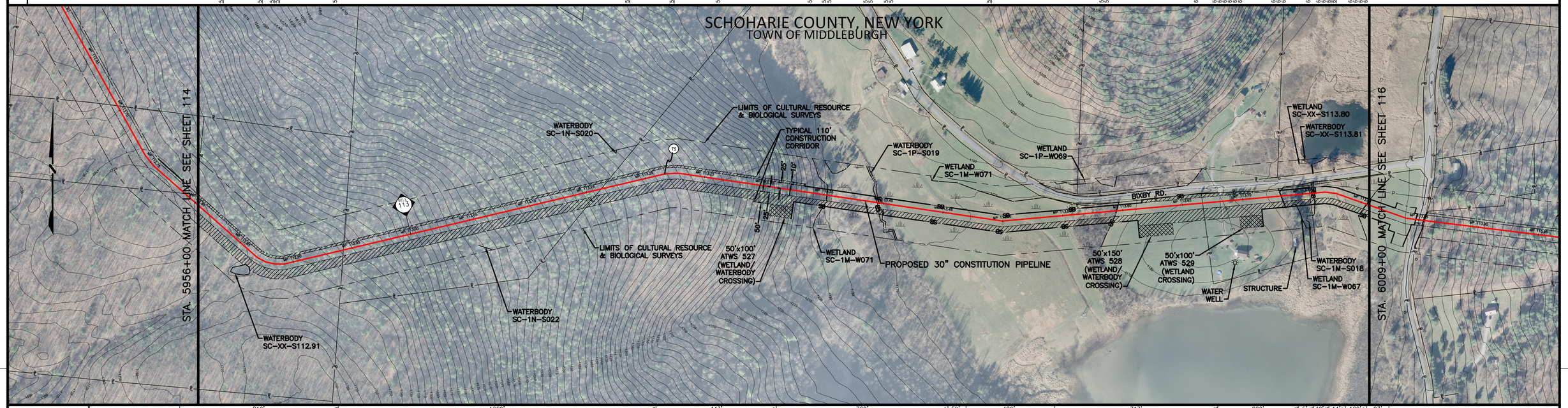
DRAWN BY: GIE	DATE: 09/26/12	ISSUED FOR BID:	SCALE: 1" = 200'
CHECKED BY: GIE	DATE: 09/27/12	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-03-70/0001	SHEET 114 OF 126
W.O.: 1110415			

LINE LIST

5956+00 | ALT-0-NY-SC-013.008 | 5963+37 | ALT-0-NY-SC-013.009 | 5974+99 | ALT-0-NY-SC-013.010 (RESCINDED SURVEY ACCESS) | 6001+60 | ALT-0-NY-SC-014.000 (RESCINDED SURVEY ACCESS) | 6008+30 | ALT-0-NY-SC-014.010 (RESCINDED SURVEY ACCESS) | 6009+00

PIPELINE STATIONING

5959+47 P.I. 134°23'37" LT.
5959+88 P.I. 134°23'37" LT.
5960+28 P.I. 134°23'37" LT.
5960+69 P.I. 134°23'37" LT.
5963+36 ℄ STONE ROW
5977+85 P.I. 10°52'15" RT.
5978+43 P.I. 10°52'15" RT.
5980+48 ℄ STONE ROW
5984+82 ℄ STONE ROW
5985+02 ENTER WETLAND SC-1M-W071
5985+23 ℄ FARM ROAD
5987+23 TOP OF SLOPE ENTER WATERBODY SC-1P-S019
5987+24 TOP OF SLOPE EXIT WATERBODY SC-1P-S019
5987+29 TOP OF SLOPE
5987+32 EXIT WATERBODY SC-1P-S019
5992+78 P.I. 133°06'-LT.
5997+81 EXIT WETLAND SC-1M-W071 ENTER AGRICULTURAL LAND
5997+81 EXIT AGRICULTURAL LAND ENTER WETLAND SC-1P-W069
6001+85 PP, 150' LT.
6002+26 EXIT AGRICULTURAL LAND
6002+38 ℄ GRAVEL DRIVE
6002+44 ℄ UTILITY POLE LINE
6002+57 ENTER AGRICULTURAL LAND
6002+61 PP, 75' RT.
6002+66 CIV. / 49' RT.
6004+68 EXIT AGRICULTURAL LAND
6005+45 PP, 75' RT.
6005+05 ENTER WETLAND SC-1M-W067
6006+42 TOP OF SLOPE
6006+50 ℄ WATERBODY SC-1M-S018
6006+58 PP, 75' RT.
6006+98 P.I. 24°13'52" RT.
6007+47 P.I. 12°18'18" RT.
6008+27 PP, 51' LT.
6008+28 PP, 51' LT.
6008+46 EXIT AGRICULTURAL LAND
6008+90 ENTER WETLAND SC-1M-W067



MATERIAL

810' ① | 1669' ② | 443' ③ | 720' ⑦ | 59 ③ | 31' ⑦ | 480' ⑦ | 717' ③ | 200' ⑦ | 5' ③ | 40' ⑦ | 14' ③ | 120' ⑦ | 23' ③

CLASS LOCATION: 1

LAND USE: IR | UF | PSS | WB | PEM | AG | RE | AG | OL | PSS | WB | PSS | AG

ENVIRONMENTAL SITE SPECIFIC E & S

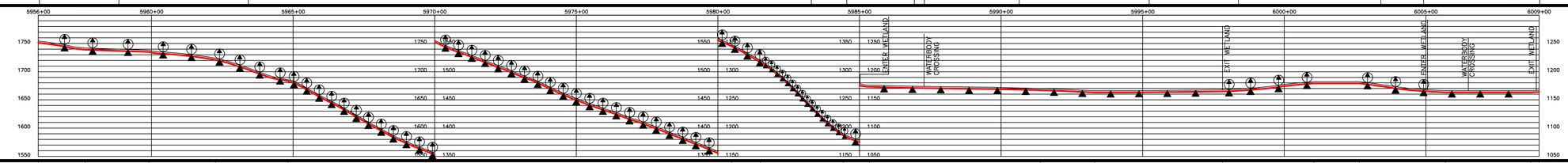
3 12 13 14 18 / 19 29 34 37 40 / 46 58A 90 91 | 1 2 5 6 7 18 / 19 29 29A 32 33 34 / 35 37 40 58 73 | 3 12 13 14 18 / 19 29 34 37 40 / 46 58A 90 91 | 1 2 5 6 7 18 / 19 29 29A 32 33 34 / 35 37 40 58 73

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

DEPTH OF COVER: 3' | 4' | 5' | 4' | 5' | 4'

SOIL TYPE: LrF | MeE | LrF | DdD | Al | Wa | Bm | Wa | IIC | NdC | ShB | LoA

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 SHALL BE USED AS A GUIDELINE ONLY. THE ACTUAL LOCATION OF THE BREAKERS SHALL BE DETERMINED IN THE FIELD BASED ON SITE 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

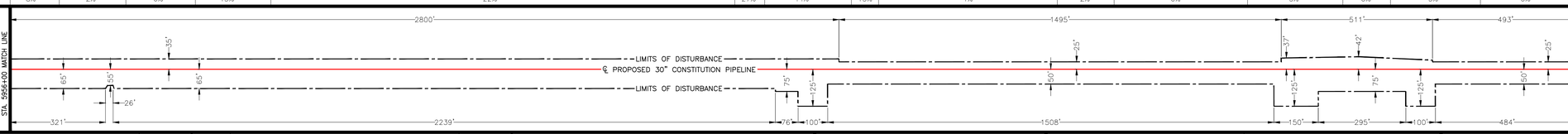
SLOPE (%)	SPACING (FT)
<5	AS REQ.
5–10	150
>10–15	100
>15–20	80
>20–30	70
>30–40	50
>40–100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING

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

AVERAGE % SLOPE: 8% | 2% | 6% | 15% | 22% | 27% | 44% | 15% | 1% | 2% | 0% | 5% | 0% | 5% | 0% | 8%

WORKSPACE SCHEMATIC



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	810'
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	1669'
3	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	1261'
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	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	1560'
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

Al – Alluvial land
Bm – Basher and Middlebury silt loams
DdD – Darien silt loam
IIC – Ilion and Lyons silt loams
LaA – Lakemont and Madalin soils
LrF – Lordstown, Oquaga and Nassau soils
MeE – Mardin and Culvers very stony soils
NdC – Nunda channery silt loam
ShB – Schoharie and Hudson silt loams
Wa – Wayland 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

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. 5956+00 TO STA. 6009+00
SCHOHARIE 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 115 OF 126
W.O.: 1110415			

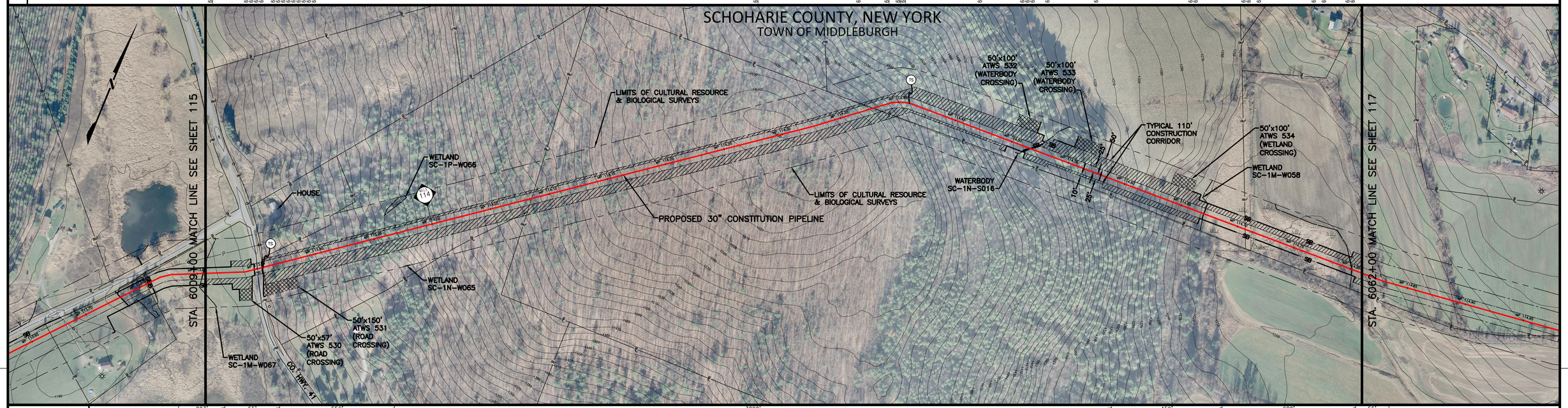
LINE LIST

CO. HWY. 41 | ALT-O-NY-SC-013.010 (RESCINDED SURVEY ACCESS) | ALT-O-NY-SC-014.001 (RESCINDED SURVEY ACCESS) | ALT-O-NY-SC-015.000 (RESCINDED SURVEY ACCESS) | ALT-O-NY-SC-015.002 | ALT-O-NY-SC-016.000

6009+00 | 6011+29 | 6011+55 | 6023+63 | 6039+18 | 6056+52 | 6062+00

PIPELINE STATIONING

6010+75 P.I. 12°17'32" LT.
6011+04 TOE OF SLOPE
6011+17 TOP OF SLOPE
6011+23 EXIT AGRICULTURAL LAND
6011+30 ENTER WETLAND SC-1M-W067 (EXCEL HOLLOW RD.)
6011+39 PP 17' RT
6011+42 TOP OF SLOPE
6011+45 TOE OF SLOPE
6011+54 TOP OF SLOPE
6011+54 UTILITY POWER LINE
6011+62 PP 100' LT.
6011+63 PP 110' LT.
6011+63 TOE OF SLOPE
6011+74 GUY, 99' LT.
6036+41 P.I. 23°03'00" LT.
6039+15 EXISTING FENCE
6040+01 P.I. 12°30'00" RT.
6040+41 P.I. 12°30'00" RT.
6040+81 P.I. 12°30'00" RT.
6044+61 ENTER AGRICULTURAL LAND
6046+40 EXIT AGRICULTURAL LAND
6046+43 ENTER WATERBODY SC-1N-S016
6047+41 EXIT AGRICULTURAL LAND
6049+89 ENTER AGRICULTURAL LAND
6054+58 ENTER WETLAND SC-1M-W058
6054+58 EXIT AGRICULTURAL LAND
6056+79 EXISTING FENCE
6056+87 TOP OF SLOPE
6056+96 TOP OF SLOPE
6060+11 TOP OF SLOPE
6060+34 TOP OF SLOPE
6061+52 EXIT WETLAND SC-1M-W058
6061+52 ENTER AGRICULTURAL LAND



MATERIAL	203' (3) · 55' (4) · 556' (3) · 3292' (2) · 459' (3) · 680' (7) · 55' (3)
CLASS LOCATION	1
LAND USE	AG · RD · UF · IR · UF · AG · WB · AG · UF · AG · PEM · AG
ENVIRONMENTAL SITE SPECIFIC E & S	4 · 15A · 1 2 5 6 7 18 19 29 29A 32 33 34 35 37 40 58 73 · 3 12 13 14 18 19 29 34 37 40 46 58A 90 91
DEPTH OF COVER	4' · 5' · 3' · 4' · 5' · 4' · 3' · 4'
SOIL TYPE	LoA · McD · LmE · LmC · LmE · LoE · LmE · LrF · NdD3 · DcC3 · Wa · NdC3

GENERAL E & S FIGURES: 2A 18 19 28 29 29A 30 31 37 59 74 75 76 77 86

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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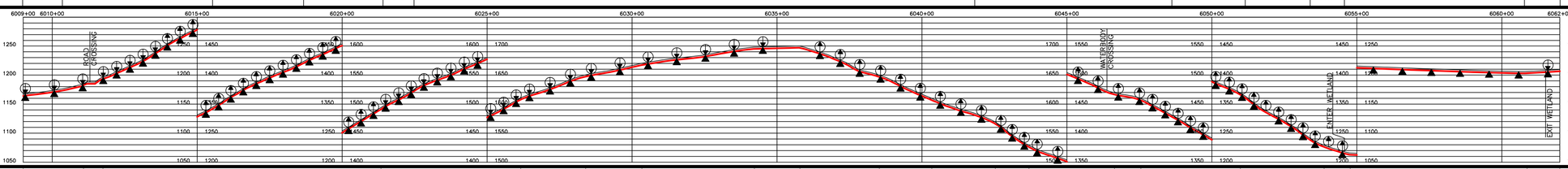
3. TEMPORARY AND PERMANENT SLOPE BREAKER SPACING IS THE SAME. SLOPE BREAKERS SHALL BE MAINTAINED IN PLACE AT ALL TIMES.

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



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

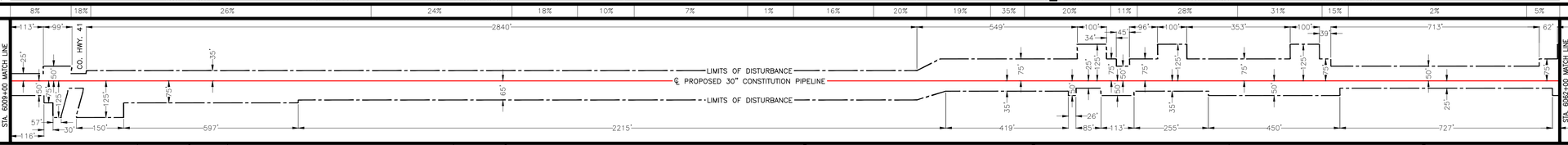
NOT A MINIMUM. TRENCH BREAKERS AND SLOPE BREAKERS SHALL BE LOCATED WITHIN 50 FT. OF THE EDGE (BOTH SIDES) OF WETLANDS AND WATERBODIES. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

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: 8% · 18% · 26% · 24% · 18% · 10% · 7% · 1% · 16% · 20% · 19% · 35% · 20% · 11% · 28% · 31% · 15% · 2% · 5%

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	0'			
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	3292'			
3	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	1273'			
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	680'			
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
DcC3 – Darien channery silty clay loam
LaA – Lakemont and Madalin soils
LmE – Lordstown channery silt loam
LmC – Lordstown channery silt loam
LoE – Lordstown and Oquaga very stony soils
LrF – Lordstown, Oquaga and Nassau soils
McD – Mardin Channery silt loam
NdC3 – Nunda channery silt loam
NdD3 – Nunda channery silt loam
Wa – Wayland 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–O–NY–SC–013.013–1–B	TYPICAL RIGHT–OF–WAY CROSS SECTIONS COUNTY HIGHWAY 41

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. 6009+00 TO STA. 6062+00
SCHOHARIE 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 116 OF 126
W.O.: 1110415			

LINE LIST

Station	Line
6062+00	ALT-O-NY-SC-016.000
6071+00	ALT-O-NY-SC-017.000 (RESCINDED SURVEY ACCESS)
6086+23	STATE HWY. 145
6087+22	ALT-O-UA-NY-SC-017.001
6090+11	ALT-O-NY-SC-017.000 (RESCINDED SURVEY ACCESS)
6104+37	ALT-O-NY-SC-022.000 (RESCINDED SURVEY ACCESS)
6111+65	NY-SC-149.000
6115+00	

PIPELINE STATIONING

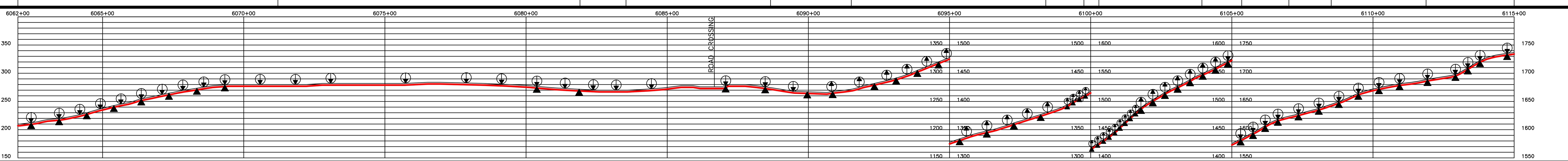
- 6062+96 P.I. 5°00'00" LT.
- 6062+96 ℄ STONE ROW
- 6066+16 ℄ STONE ROW
- 6071+02 P.I. 10°46'35" LT.
- 6071+51 P.I. 10°46'35" LT.
- 6086+42 EXIT AGRICULTURAL LAND
- 6086+70 ℄ STATE HWY. 145
- 6086+93 ENTER AGRICULTURAL LAND
- 6090+70 P.I. 11°15'20" LT.
- 6091+11 P.I. 11°15'20" LT.
- 6099+02 P.I. 2°52'05" LT.
- 6099+45 EXIT AGRICULTURAL LAND

MATERIAL	2419' ③ (6062+00 to 6086+19); 105' ④ (6086+19 to 6087+24); 849' ③ (6087+24 to 6095+73); 1678' ② (6095+73 to 6112+51); 249' ① (6112+51 to 6115+00)
CLASS LOCATION	1
LAND USE	AG; RD; AG; UF; IR
ENVIRONMENTAL SITE SPECIFIC E & S	4, 15A; 3, 12, 13, 14, 18, 19, 20, 34, 37, 40, 46, 58A, 88, 89
DEPTH OF COVER	4'; 5'; 4'; 3'
SOIL TYPE	NdC3; DaB; IIC; NdB; IIC; MhD; LrF; LmE; LoE; LmE; LmC; LmE; ArC; LoE

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

PROFILE

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

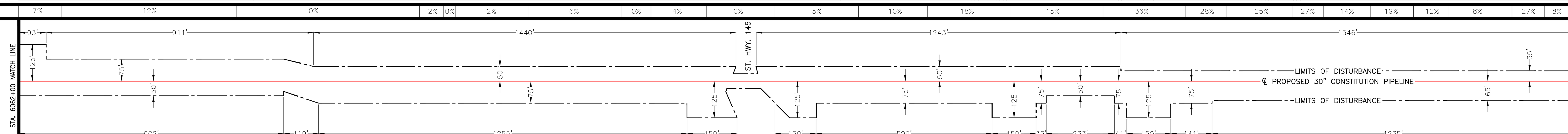
SLOPE (%)	SPACING (FT)
<5	AS REQ.
5–10	150
>10–15	100
>15–20	80
>20–30	70
>30–40	50
>40–100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING

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

AVERAGE % SLOPE: 7% | 12% | 0% | 2% | 0% | 2% | 6% | 0% | 4% | 0% | 5% | 10% | 18% | 15% | 36% | 28% | 25% | 27% | 14% | 19% | 12% | 8% | 27% | 8%

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	249'			
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	1678'			
3	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	3268'			
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	105'			
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

- ArC – Arnot flaggy silt loam
- DaB – Darien channery silt loam
- IIC – Ilion and Lyons silt loams
- LmC – Lordstown channery silt loam
- LmE – Lordstown channery silt loam
- LoE – Lordstown and Oquaga very stony soils
- LrF – Lordstown, Oquaga and Nassau soils
- MhD – Mohawk and Honeoye silt loams
- NdB – Nunda channery silt loam
- NdC3 – Nunda 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-O-NY-SC-017.004-1-B	TYPICAL RIGHT-OF-WAY CROSS SECTIONS STATE HIGHWAY 145

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

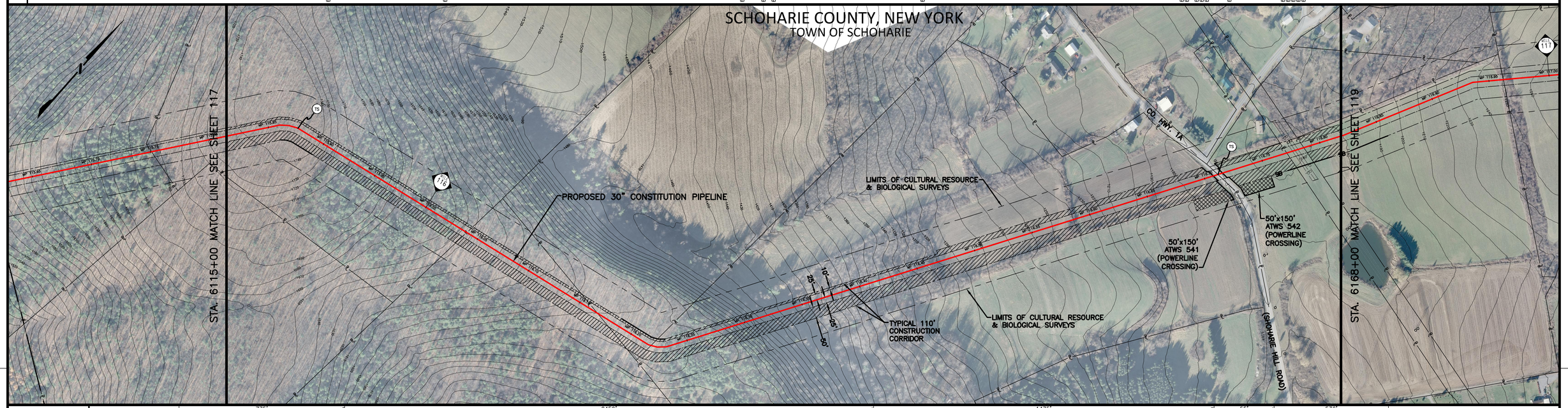
CONSTITUTION PIPELINE COMPANY, LLC
SOIL EROSION AND SEDIMENT CONTROL PLAN
FERC ALIGNMENT SHEETS
PROPOSED 30" NATURAL GAS PIPELINE
STA. 6062+00 TO STA. 6115+00
SCHOHARIE COUNTY, NEW YORK

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 117 OF 126
WO: 1110415			

LINE LIST	
6115+00	
NY-SC-149.000	
6126+90	
ALT-D-NY-SC-022.002 (DENIED SURVEY ACCESS)	
6133+62	
NY-SC-149.001	
6136+37	
NY-SC-156.000	
COUNTY HWY. 1A (SCHOHARIE HILL RD.)	
6162+36	
NY-SC-160.000 (RESCINDED SURVEY ACCESS)	
6165+52	
NY-SC-152.000	
NY-SC-160.000 (RESCINDED SURVEY ACCESS)	
6166+31	
6168+00	

PIPELINE STATIONING
6120+03 ℄ STONE ROW
6126+59 ℄ STONE ROW
6141+02 ℄ DIRT PATH
6141+67 END CLASS 1 BEGIN CLASS 2
6141+87 ℄ STONE ROW
6149+70 ENTER AGRICULTURAL LAND
6162+24 EXIT AGRICULTURAL LAND
6162+37 ℄ COUNTY HWY. 1A (SCHOHARIE HILL RD.)
6162+43 ENTER AGRICULTURAL LAND
6162+54 UTILITY POWER LINE
6162+85 PP. 164' Rt.
6165+73 PP. 43' Lt.
6165+81 UTILITY POWER LINE
6165+85 PP. 40' Lt.
6165+92 UTILITY POWER LINE
6166+24 PP. 31' Lt.
6166+34 UTILITY POWER LINE



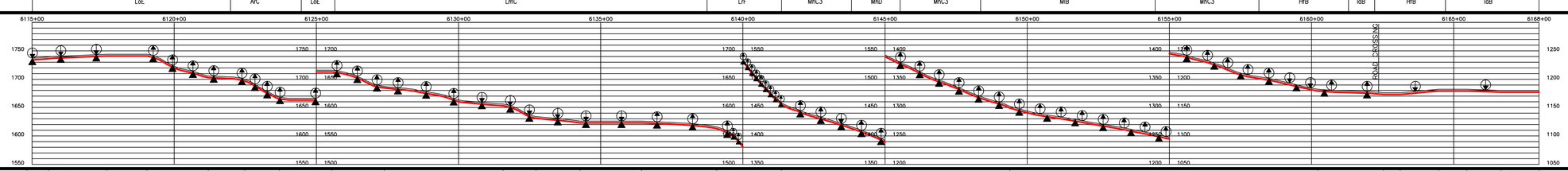
MATERIAL	775' ①	6122+35	2459' ②	6147+34	1475' ③	6162+03	55' ④	6162+84	536' ③														
CLASS LOCATION	1														2								
LAND USE	IR				UF								AG						RD	AG			
ENVIRONMENTAL SITE SPECIFIC E & S																				4 15A			
DEPTH OF COVER	3'												4'						5'	4'			
SOIL TYPE	LoE		ArC	LoE	LmC				LrF		MhC3	MhD	MhC3		MlB		MhC3		HfB	IaB	HfB	IaB	

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 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 (NARROW INDICATES PLAN VIEW FLOW DIRECTION)

PERMANENT TRENCH BREAKER

NOT 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

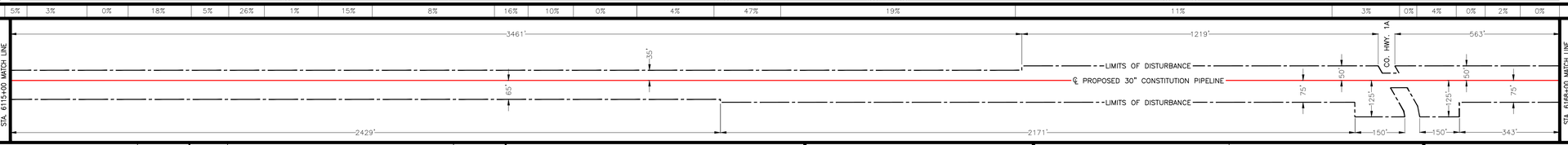
SLOPE (%)	SPACING (FT)
<5	AS REQ.
5–10	150
>10–15	100
>15–20	80
>20–30	70
>30–40	50
>40–100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING

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

AVERAGE % SLOPE	5%	3%	0%	18%	5%	26%	1%	15%	8%	16%	10%	0%	4%	47%	19%	11%	3%	0%	4%	0%	2%	0%

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	775'			
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	2459'			
3	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	2011'			
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

ArC – Arnot flaggy silt loam
HfB – Honeoye–Farmington complex
IaB – Ilion and Appleton silt loams
LmC – Lordstown channery silt loam
LoE – Lordstown and Oquaga very stony soils
LrF – Lordstown, Oquaga and Nassau soils
MhC3 – Mohawk and Honeoye silt loams
MhD – Mohawk and Honeoye silt loams
MlB – Mohawk and Lima silt loams

0 200 400 600
SCALE IN FEET

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)

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

DRAWING NO.	REFERENCE TITLE
26–27–70/001 THRU 26–27–70/022 26–07–85/NY–SC–156.003–1–B	TYPICAL RIGHT–OF–WAY CROSS SECTIONS COUNTY HIGHWAY 1A

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. 6115+00 TO STA. 6168+00
SCHOHARIE 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 118 OF 126
W.O.: 1110415			