LINE LIST

3021+00 — (NY-DE-030.000) — 3025+66 — (NY-DE-031.000) — 3046+89 — (NY-DE-032.000) — 3056+11 — (CRANE HILL RD.) — 3056+61 — (NY-DE-032.000) — 3073+00

PIPELINE STATIONING

3024+80 EXIT AGRICULTURAL LAND
3025+65 EXISTING FENCE
3026+97 P.I. 10°48'43" RT.
3030+35 ℄ STONE ROW
3030+39 ENTER AGRICULTURAL LAND
3035+19 EXISTING FENCE
3035+32 ℄ STONE ROW
3047+06 EXIT AGRICULTURAL LAND
3052+64 ℄ FIELD ROAD
3056+00 ℄ FIELD ROAD
3056+11 TOP OF SLOPE
3056+22 TOP OF SLOPE
3056+35 ℄ CRANE HILL RD.
3056+42 PP, 229' RT.
3056+51 TOP OF SLOPE
3056+51 PP, 145' RT.
3056+62 UTILITY POWER LINE
3056+63 UTILITY POWER LINE
3056+64 UTILITY POWER LINE
3056+70 PP, 94' LT.
3057+37 ENTER WETLAND DE-1C-W211
3057+92 PP, 57' RT.
3058+33 ℄ GRASS FARM ROAD
3058+72 UTILITY POWER LINE
3059+95 PP, 89' LT.
3061+73 ℄ WATERBODY DE-1C-S110B
3062+98 EXIT WETLAND DE-1C-W211
3063+90 ENTER WETLAND DE-1C-W211
3064+28 P.I. 15°07'51" RT.
3064+68 P.I. 15°07'51" RT.
3065+08 P.I. 15°07'41" RT.
3065+92 P.I. 12°38'52" LT.
3066+18 EXIT WETLAND DE-1C-W211
3066+21 ENTER WETLAND DE-1C-W211
3066+32 P.I. 12°39'02" LT.
3066+72 P.I. 12°39'02" LT.
3066+76 EXISTING FENCE
3067+06 ℄ WATERBODY DE-1C-S113C
3068+19 P.I. 5°03'09" LT.
3069+31 EXIT WETLAND DE-1C-W211
3071+78 ENTER WETLAND DE-1C-W211
3072+54 TOP OF SLOPE
3072+56 ℄ WATERBODY DE-1C-S113D
3072+60 TOP OF SLOPE

MATERIAL: 1059' ② — 3031+59 — 1358' ① — 3045+17 — 1091' ② — 3056+00 2-30'-V — 3056+08 — 55' ④ — 3056+63 — 136' ② — 3057+99 — 312' ⑥ — 3061+11 — 574' ② — 3066+85 — 120' ⑥ — 3068+05 — 30' ② — 3068+35 — 80' ⑥ — 3069+15 — 270' ② — 3071+85 — 115' ⑥

CLASS LOCATION: 1

LAND USE: AG | UF | AG | OL | RD | UF | PFO | PSS | PFO | PSS | WB | PSS | UF | PSS | PFO | UF | PFO | PSS | WB | PSS | UF | PSS | WB | PSS

ENVIRONMENTAL SITE SPECIFIC E & S:
- 15A, 44, 45
- 3, 12, 13, 14, 18, 19, 28, 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, 28, 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, 28, 34, 37, 40, 46, 58A, 90, 91 | 1, 2, 5, 6, 7, 18, 19, 29, 29A, 32, 33, 34, 35, 37, 40, 58, 73

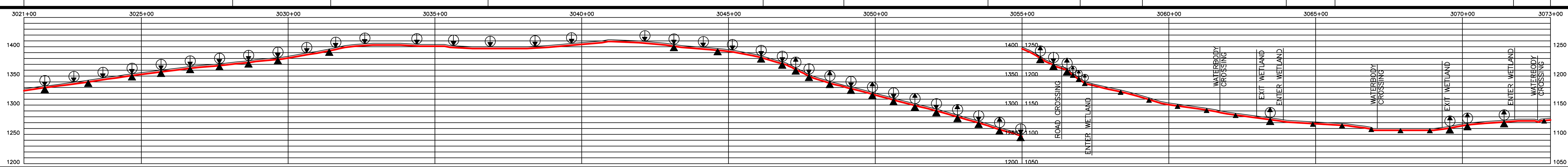
GENERAL E & S FIGURES: 18, 19, 28, 29, 29A, 30, 31, 37, 59, 74, 75, 76, 77, 86

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

SOIL TYPE: MdC | LoC | LoB | LoC | LoE | MdC | BtD | MdC | VoB | MdC | VoC | MdC

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

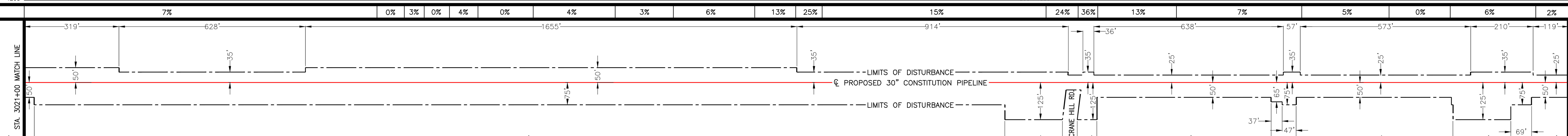
*AT A MINIMUM, TRENCH BREAKERS AND SLOPE BREAKERS SHALL BE LOCATED WITHIN 50 FT. OF THE EDGE (BOTH SIDES) OF WETLANDS AND WATERBODIES. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

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% | 0% | 3% | 0% | 4% | 0% | 4% | 3% | 6% | 13% | 25% | 15% | 24% | 36% | 13% | 7% | 5% | 0% | 6% | 2%

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	1358'			
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	3160'			
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	627'			
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

BtD – Bath channery silt loam
LoB – Lordstown channery silt loam
LoC – Lordstown channery silt loam
LoE – Lordstown channery silt loam
MdC – Mardin channery silt loam
VoB – Volusia channery silt loam
VoC – Volusia 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	TYPICAL RIGHT-OF-WAY CROSS SECTIONS
26-07-85/NY-DE-032.003-1-B	CRANE HILL 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. 3021+00 TO STA. 3073+00
DELAWARE 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 59 OF 126
WO: 1110415				

LINE LIST

Station	Line
3073+00	NY-DE-032.000
3074+44	NY-DE-034.000
3097+16	NY-DE-034.001
3103+55	NY-DE-035.001
3114+05	NY-DE-035.000
3121+55	NY-DE-036.000
3125+00	

PIPELINE STATIONING

Station	Description
3074+45	EXISTING FENCE
3079+21	P.I. 12°10'42" RT.
3079+70	P.I. 12°10'42" RT.
3080+36	ENTER AGRICULTURAL LAND
3080+58	EXIT AGRICULTURAL LAND
3080+58	ENTER WETLAND DE-1C-W223
3081+29	EXIT WETLAND DE-1C-W223
3082+04	ENTER WETLAND DE-1C-W223
3084+64	P.I. 10°29'00" LT.
3085+13	P.I. 12°54'17" LT.
3085+27	EXIT WETLAND DE-1C-W223
3089+63	TOP OF SLOPE
3089+75	ENTER WATERBODY DE-1N-S079
3089+88	EXIT WATERBODY DE-1N-S079
3089+98	TOP OF SLOPE
3091+53	ENTER WETLAND DE-1K-W233
3096+89	EXIT WETLAND DE-1K-W233
3101+80	ENTER WETLAND DE-1K-W233
3103+03	EXIT WETLAND DE-1K-W233
3103+58	EXISTING FENCE
3107+67	ENTER WETLAND DE-1C-W234
3108+45	TOP OF SLOPE
3108+47	ENTER WATERBODY DE-1C-S190
3108+53	TOP OF SLOPE
3108+54	EXIT WATERBODY DE-1C-S190
3108+60	EXIT WETLAND DE-1C-W234
3111+83	TOP OF SLOPE
3112+21	TOP OF SLOPE
3112+30	ENTER WATERBODY DE-1S-S100
3112+47	EDGE OF WATER
3112+67	EDGE OF WATER
3112+71	EXIT WATERBODY DE-1S-S100
3112+76	TOP OF SLOPE
3112+92	TOP OF SLOPE
3113+10	ENTER AGRICULTURAL LAND
3113+95	P.I. 13°34'41" LT.
3114+44	P.I. 13°40'18" LT.
3117+63	EXISTING FENCE
3119+06	P.I. 13°26'30" RT.
3119+46	P.I. 13°26'30" RT.
3119+86	P.I. 13°26'31" RT.
3121+29	UTILITY POWER LINE
3121+38	EXIT AGRICULTURAL LAND
3121+43	℄ DIRT FARM ROAD
3121+48	PP, 109' RT.
3122+06	TOP OF SLOPE
3122+10	ENTER WATERBODY DE-1N-S101
3122+29	EXIT WATERBODY DE-1N-S101
3122+40	TOP OF SLOPE
3123+04	ENTER AGRICULTURAL LAND

MATERIAL	85' (6) 3073+85	889' (2) 3082+74	120' (6) 3083+94	907' (2) 3093+01	240' (6) 3095+41	1233' (2) 3107+74	80' (6) 3108+54	1269' (2) 3121+23	40' (4) 3121+63	337' (2)
CLASS LOCATION	1									

LAND USE: PSS, UF, AG, PEM, OL, PEM, PSS, UF, IR, WB, IR, PSS, PFO, IR, PFO, PSS, IR, UF, PFO, WB, PFO, UF, OL, UF, WB, UF, AG, RD, UF, WB, UF, AG

ENVIRONMENTAL SITE SPECIFIC E & S:
- 3, 12, 13, 14, 18, 19, 29, 34, 37, 40, 46, 58A, 90, 91 (PSS / UF; AG–PEM; PEM–PSS; UF; PSS–PFO; PFO–PSS; UF)
- 1, 2, 5, 6, 7, 18, 19, 29, 29A, 32, 33, 34, 35, 37, 40, 58, 73 (IR–WB–IR; WB; UF–WB–UF; RD–UF–WB–UF)

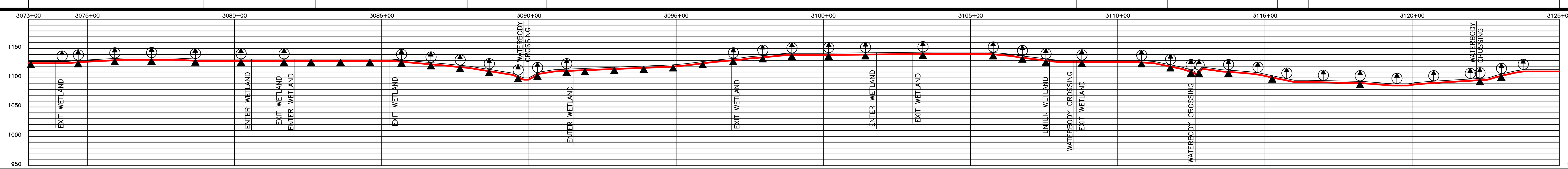
GENERAL E & S FIGURES: 18, 19, 28, 29, 29A, 30, 31, 37, 59, 74, 75, 76, 77, 86

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

SOIL TYPE: MdC, MdB, MdC, VoB, MdC, MaC, MaD, MaB, TkC

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

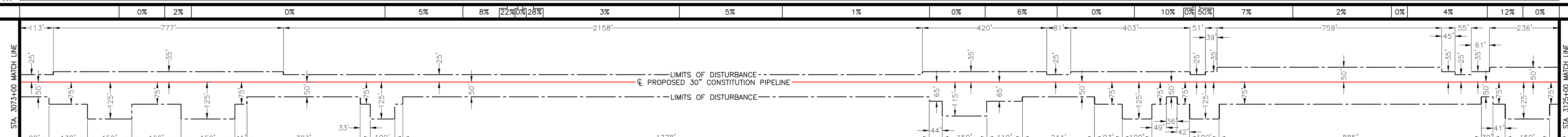
*AT A MINIMUM, TRENCH BREAKERS AND SLOPE BREAKERS SHALL BE LOCATED WITHIN 50 FT. OF THE EDGE (BOTH SIDES) OF WETLANDS AND WATERBODIES. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR..

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: 0%, 2%, 0%, 5%, 8%, 22%, 0%, 28%, 3%, 5%, 1%, 0%, 6%, 0%, 10%, 0%, 50%, 7%, 2%, 0%, 4%, 12%, 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	0'			
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	4635'			
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	40'			
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	525'			
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
- MaB – Maplecrest gravelly silt loam
- MaC – Maplecrest gravelly silt loam
- MaD – Maplecrest gravelly silt loam
- MdB – Mardin channery silt loam
- MdC – Mardin channery silt loam
- TkC – Tunkhannock gravelly loam
- VoB – Volusia 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	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. 3073+00 TO STA. 3125+00
DELAWARE 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 60 OF 126
WO: 1110415			

LINE LIST

Station	Line List
3125+00	NY-DE-036.000
3133+21	NY-DE-037.000
3152+76	NY-DE-037.001
3156+45	NY-DE-040.000
3176+48	NY-DE-041.000
3177+00	

PIPELINE STATIONING

3126+11 P.I. 9°12'39" LT.
3130+47 PP, 245' LT.
3131+08 EXIT AGRICULTURAL LAND
3132+98 PP, 192' LT.
3136+85 GUY, 47' LT.
3136+88 PP, 110' LT.
3139+74 PP, 117' LT.
3140+57 P.I. 8°21'57" RT.
3141+16 P.I. 8°21'57" RT.
3142+35 PP, 175' LT.
3144+49 ENTER WETLAND DE-1M-W094
3144+59 PP, 246' LT.
3146+67 EXIT WETLAND DE-1M-W094
3147+16 PP, 231' LT.
3150+49 TOP OF SLOPE
3150+62 TOE OF SLOPE
3150+67 ENTER WATERBODY DE-1M-S081
3150+72 TOE OF SLOPE
3150+75 EXIT WATERBODY DE-1M-S081
3150+83 TOP OF SLOPE
3156+44 EXISTING FENCE
3158+04 ENTER WETLAND DE-1N-W101
3158+72 EXIT WETLAND DE-1N-W101
3160+79 ENTER WETLAND DE-1N-W101
3161+43 EXIT WETLAND DE-1N-W101
3161+65 ENTER WETLAND DE-1N-W101
3161+75 EXIT WETLAND DE-1N-W101
3162+34 ENTER AGRICULTURAL LAND
3167+29 EXIT AGRICULTURAL LAND
3167+51 TOP OF SLOPE
3167+55 ENTER WATERBODY DE-1S-S102
3167+58 TOE OF SLOPE
3167+70 TOE OF SLOPE
3167+76 TOP OF SLOPE
3167+76 EXIT WATERBODY DE-1S-S102
3168+24 ENTER AGRICULTURAL LAND
3169+47 P.I. 9°26'33" RT.
3169+96 P.I. 9°26'33" RT.
3176+06 PP, 237' LT.
3176+91 EXIT AGRICULTURAL LAND
3176+97 ℄ GRAVEL DRIVE

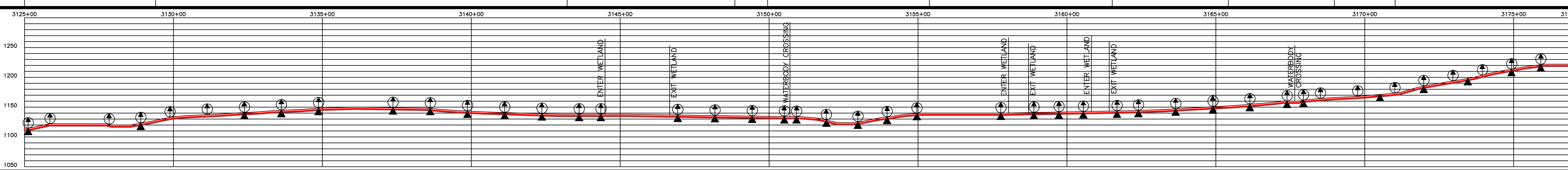
Row	Values
MATERIAL	5177' (2); 3176+77; 23' (4)
CLASS LOCATION	1
LAND USE	AG · UF · PSS · UF · WB · UF · PEM · UF · PEM · UF · PEM · UF · AG · UF · WB · UF · AG · RD
ENVIRONMENTAL SITE SPECIFIC E & S	[3 12 13 14 18 / 19 29 34 37 40 / 46 58A 90 91] · [3 12 13 14 18 / 19 29 34 37 40 / 46 58A 90 91] · [1 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] · [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] · [1 2 5 6 7 18 / 19 29 29A 32 33 34 / 35 37 40 58 73]
DEPTH OF COVER	4' · 3' · 4' · 3' · 5' · 3' · 4' · 3' · 4' · 5' · 4' · 5'
SOIL TYPE	TkC · MaC · MaB · MsB · MaB · MsB · TkB · TtB · MaB · WeC

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 (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

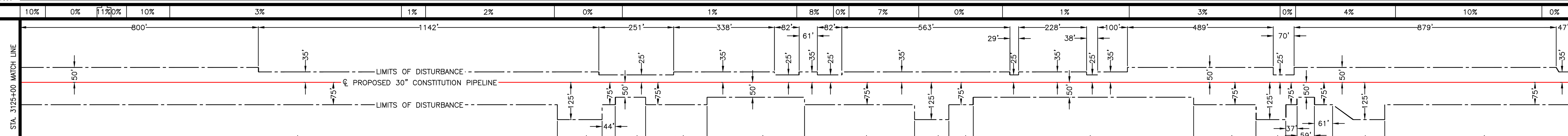
SLOPE (%)	SPACING (FT)
<5	AS REQ.
5-10	150
>10-15	100
>15-20	80
>20-30	70
>30-40	50
>40-100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING

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

AVERAGE % SLOPE: 10% · 0% · 11% · 0% · 10% · 3% · 1% · 2% · 0% · 1% · 8% · 0% · 7% · 0% · 1% · 3% · 0% · 4% · 10% · 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	0'			
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	5177'			
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	23'			
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

MaB – Maplecrest gravelly silt loam
MaC – Maplecrest gravelly silt loam
MsB – Morris and Volusia soils
TkB – Tunkhannock gravelly loam
TkC – Tunkhannock gravelly loam
TtB – Tunkhannock and Chenango soils
WeC – Wellsboro 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	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. 3125+00 TO STA. 3177+00
DELAWARE COUNTY, NEW YORK

CONSTITUTION PIPELINE

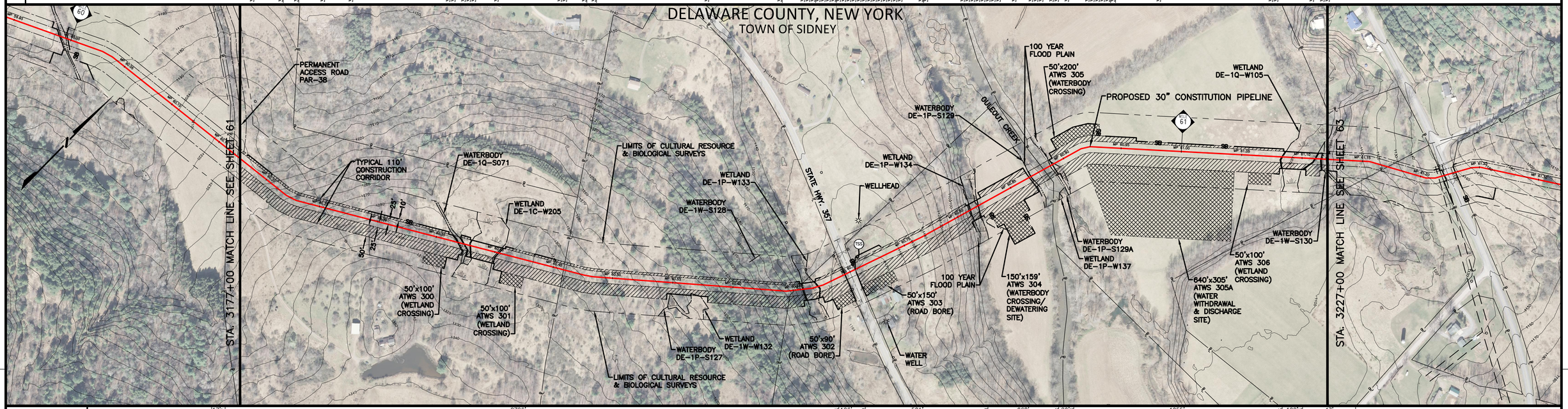
DRAWN BY: GIE	DATE: 09/26/12	ISSUED FOR BID:	SCALE: 1" = 200'
CHECKED BY: GIE	DATE: 09/27/12	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-03-70/0001	SHEET 61 OF 126
WO: 1110415			

LINE LIST

PIPELINE STATIONING

3177+00 (NY-DE-041.000) 3192+22 (NY-DE-042.000) 3202+42 (NY-DE-043.000) STATE HWY. 357 3204+71 3205+21 (NY-DE-044.000) 3214+53 (NY-DE-045.001) 3227+00

3177+57 END CLASS 1 BEGIN CLASS 2
3179+67 PI. 11°52'32" LT.
3180+16 PI. 11°56'38" LT.
3181+42 UTILITY POWER LINE
3182+70 PPI. 117' RT.
3187+48 TOP OF SLOPE
3187+50 ENTER WATERBODY DE-1Q-S071
3187+69 TOP OF SLOPE
3187+70 EXIT WATERBODY DE-1Q-S071
3188+03 ENTER WETLAND DE-1C-W205
3189+23 EXIT WETLAND DE-1C-W205
3192+32 & STONE ROW
3192+33 END CLASS 2
BEGIN CLASS 1
3193+15 PI. 5°08'58" LT.
3193+55 PI. 5°08'58" LT.
3199+07 END CLASS 1
BEGIN CLASS 2
3202+01 PI. 10°47'58" LT.
3202+79 ENTER WETLAND DE-1P-W133
3202+97 PPI. 84' LT.
3203+21 UTILITY POWER LINE
3203+41 EXIT WETLAND DE-1P-W133
3203+45 ENTER WETLAND DE-1P-W133
3203+58 UTILITY POWER LINE
3204+62 PPI. 84' LT.
3204+64 GUY, 80' LT.
3204+71 UTILITY POWER LINE
3204+75 TOP OF SLOPE
3204+95 & STATE HWY. 357
3205+20 TOP OF SLOPE
3205+27 ENTER WELLHEAD, 186' LT.
3208+44 PI. 7°00'00" LT.
3208+71 TOP OF SLOPE
3210+63 TOE OF SLOPE
3210+68 EXIT 100 YEAR FLOOD PLAIN
3211+01 ENTER WETLAND DE-1P-W134
3211+08 TOE OF SLOPE
3211+25 TOP OF SLOPE
3211+27 EXIT WETLAND DE-1P-W134
3211+27 ENTER AGRICULTURAL LAND
3213+07 END CLASS 2
BEGIN CLASS 1
3213+89 EXIT AGRICULTURAL LAND
3213+89 ENTER WATERBODY
3213+98 TOE OF SLOPE
3214+29 TOP OF SLOPE
3214+87 EXIT WATERBODY DE-1P-S129
3215+05 EXIT 100 YEAR FLOOD PLAIN
3215+13 ENTER AGRICULTURAL LAND
3216+80 PI. 7°00'00" RT.
3219+99 END CLASS 1
BEGIN CLASS 2
3225+24 ENTER WETLAND DE-1Q-W105
3225+24 EXIT AGRICULTURAL LAND
3226+63 EXIT WETLAND DE-1Q-W105
3226+96 ENTER WATERBODY DE-1W-S134
3226+97 TOP OF SLOPE



MATERIAL

17'	2726'	106'	581'	268'	80'	1055'	120'	47'
④	②	④	②	③	②	③	⑦	③

CLASS LOCATION: 1 | 2 | 1 | 2 | 1 | 2

LAND USE: OL | UF | WB | OL | PSS | OL | UF | PEM | OL | RD | OL | UF | PEM | AG | WB | UF | AG | PEM | UF | WB

ENVIRONMENTAL SITE SPECIFIC E & S

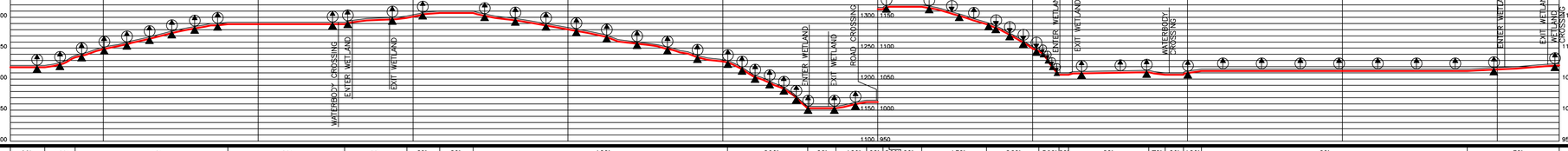
OL	UF	WB	OL	PSS	OL	UF	PEM	OL	RD	OL	UF	PEM	AG	WB	UF	AG	PEM	UF	WB
1 2 5 6 7 18 19 29 29A 32 33 34 35 37 40 58 73		3 12 13 14 18 19 29 34 37 40 46 58A 90 91				3 12 13 14 18 19 29 34 37 40 46 58A 90 91			4 15A			3 12 13 14 18 19 29 34 37 40 46 58A 90 91			2A 5 6 7 18 19 29 29A 32 33 34 35 37 40 58 73			3 12 13 14 18 19 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: 5' | 4' | 3' | 5' | 4' | 3' | 4' | 5' | 4' | 3' | 4' | 5' | 4' | 5'

SOIL TYPE: WeC | OpD | OpB | OrC | OpB | OrE | MaB | MaD | Bc | TkD

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 LOCATIONS OF BREAKERS SHALL BE DETERMINED IN THE FIELD CONDITIONS, BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

PERMANENT SLOPE BREAKERS (ARROW INDICATES FLOW VIEW FLOW DIRECTION)

PERMANENT TRENCH BREAKER

NOT A MINIMAL 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

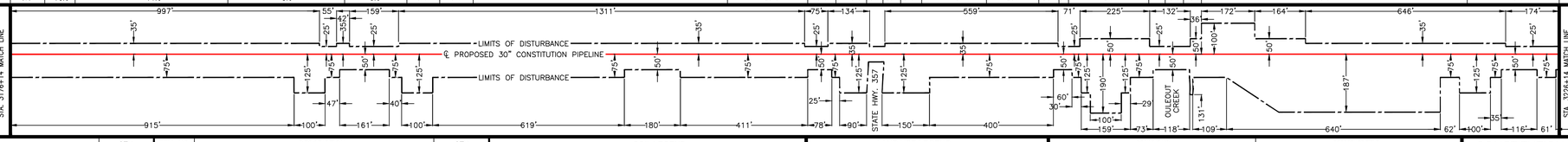
SLOPE (%)	SPACING (FT)
<5	AS REQ.
5–10	150
>10–15	100
>15–20	80
>20–30	70
>30–40	50
>40–100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING

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

AVERAGE % SLOPE: 0% | 16% | 11% | 0% | 6% | 6% | 0% | 10% | 29% | 0% | 10% | 0% | 20% | 0% | 13% | 26% | 59% | 0% | 2% | 7% | 0% | 10% | 0% | 3%

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	0'
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	3307'
3	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	1370'
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	123'
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	200'
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'

ITEM NO.	DESCRIPTION	QTY.

SOIL LEGEND
Bc – Barbour loam
MaB – Maplecrest gravelly silt loam
MaD – Maplecrest gravelly silt loam
OpB – Oquaga channery silt loam
OpD – Oquaga channery silt loam
OrC – Oquaga, Lordstown and Arnot soils
OrE – Oquaga, Lordstown and Arnot soils
TkD – Tunkhannock gravelly loam
WeC – Wellsboro 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/NY-DE-043.003-1-B	TYPICAL RIGHT-OF-WAY CROSS SECTIONS STATE HIGHWAY 357

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. 3177+00 TO STA. 3227+00
DELAWARE 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 62 OF 126
W.O. 1110415			

LINE LIST

Station	Line List
3227+00	NY-DE-045.001
3229+85	NY-DE-045.000
3232+31	COUNTY HWY. 44
3232+92	NY-DE-045.000
3241+59	NY-DE-048.000
3253+66	PATENT LINE RD.
3254+26	NY-DE-049.000
3276+47	NY-DE-050.000
3278+00	

PIPELINE STATIONING

3227+05 TOE OF SLOPE
3227+13 EXIT WATERBODY DE-1W-S130
3227+14 TOE OF SLOPE
3227+21 TOP OF SLOPE
3227+61 TOP OF SLOPE
3229+03 P.I. 13°00'00" RT.
3231+07 TOP OF SLOPE
3231+10 TOE OF SLOPE
3231+23 TOE OF SLOPE
3231+49 TOP OF SLOPE
3231+60 P.I. 16°00'00" LT.
3231+90 GUY, 44' LT.
3232+00 P.I. 16°00'00" LT.
3232+26 GUY, 74' LT.
3232+30 UTILITY POWER LINE
3232+30 PP, 47' LT.
3232+31 GUY, 32' LT.
3232+59 ℄ HWY. 44
3232+75 TOP OF SLOPE
3232+78 TOE OF SLOPE
3232+82 TOE OF SLOPE
3232+99 TOP OF SLOPE
3233+03 PP, 56' LT.
3233+14 TOP OF SLOPE
3233+65 P.I. 14°00'00" RT.
3234+05 P.I. 14°00'00" RT.
3238+03 P.I. 12°40'35" LT.
3240+95 ENTER WETLAND DE-1Q-W110
3244+38 EXIT WETLAND DE-1Q-W110
3246+28 P.I. 14°30'00" LT.
3252+91 P.I. 2°00'00" LT.
3253+21 PP, 166' LT.
3253+85 UTILITY POWER LINE
3253+91 ℄ PATENT LINE RD.
3254+04 TOP OF SLOPE
3254+08 TOE OF SLOPE
3254+11 ENTER WATERBODY DE-1C-S303
3254+12 TOE OF SLOPE
3254+15 EXIT WATERBODY DE-1C-S303
3254+17 TOP OF SLOPE
3254+18 PP, 85' RT.
3254+24 EXISTING FENCE
3255+79 P.I. 9°30'00" RT.
3255+93 ENTER WETLAND DE-1A-W478
3256+09 EXIT WETLAND DE-1A-W478
3260+27 P.I. 2°00'00" RT.
3264+55 END CLASS 2 BEGIN CLASS 1
3270+15 P.I. 10°00'06" RT.
3270+95 P.I. 10°00'06" RT.
3271+96 P.I. 17°00'00" RT.
3274+00 P.I. 10°30'00" RT.

MATERIAL
332' ③ | 3230+32 | 195' ② | 3233+00 2-22°-V | 3232+27 | 65' ④ | 3232+92 | 2072' ② | 3253+64 | 55' ④ | 3254+19 | 3254+27 3-34°-V | 3254+43 2-22°-V | 951' ② | 3263+70 | 1430' ①

CLASS LOCATION
2 | 1

LAND USE
WB | UF | OL | UF | OL | RD | OL | PSS | UF | RD | OL | WB | OL | PEM | OL | UF | IR | UF

ENVIRONMENTAL SITE SPECIFIC E & S
1 2 5 6 7 18 / 19 29 29A 32 33 34 / 35 37 40 58 73
4 15A
3 12 13 14 18 / 19 29 34 37 40 / 46 58A 90 91
15A / 44 45
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

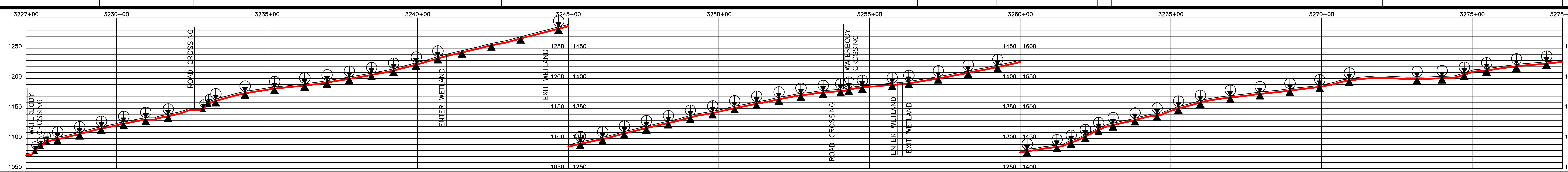
GENERAL E & S FIGURES
18 19 28 29 29A 30 31
37 59 74 75 76 77 86

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

SOIL TYPE
TkD | WeC | LaD | MsB | LdC | MsB | OpE | LoC | WeB

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

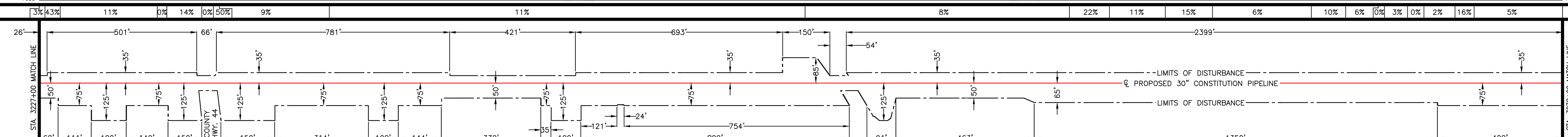
SLOPE (%)	SPACING (FT)
<5	AS REQ.
5–10	150
>10–15	100
>15–20	80
>20–30	70
>30–40	50
>40–100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING

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

AVERAGE % SLOPE
3% | 43% | 11% | 0% | 14% | 0% | 50% | 9% | 11% | 8% | 22% | 11% | 15% | 6% | 10% | 6% | 0% | 3% | 0% | 2% | 16% | 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	1430'			
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	3218'			
3	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	332'			
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	120'			
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
LaD – Lackawanna flaggy silt loam
LdC – Lackawanna and Bath soils
LoC – Lordstown channery silt loam
MsB – Morris and Volusia soils
OpE – Oquaga channery silt loam
TkD – Tunkhannock gravelly loam
WeB – Wellsboro channery silt loam
WeC – Wellsboro 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	TYPICAL RIGHT-OF-WAY CROSS SECTIONS
26-07-85/NY-DE-045.003-1-B	COUNTY HIGHWAY 44
26-07-85/NY-DE-048.005-1-B	PATENT LINE 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. 3227+00 TO STA. 3278+00
DELAWARE COUNTY, NEW YORK

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 63 OF 126	
WO: 1110415					