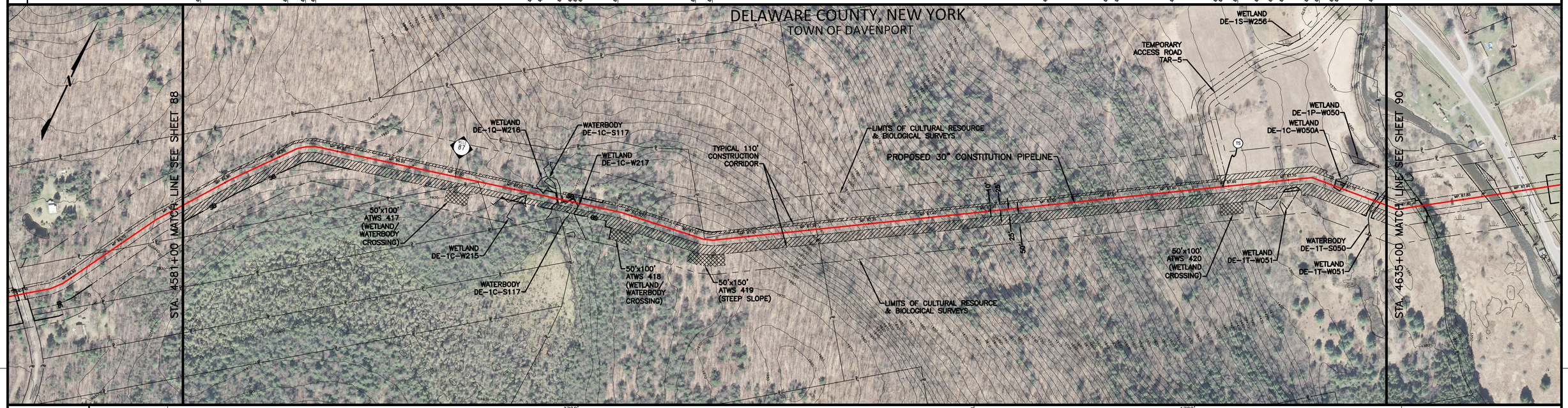
LINE LIST

4581+00 — NY-DE-198.000 — 4609+77 — NY-DE-200.000 — 4635+00

PIPELINE STATIONING

4583+36 P.I. 5°14'40" RT.
4586+54 P.I. 12°21'14" RT.
4586+94 P.I. 12°21'14" RT.
4587+34 P.I. 12°21'14" RT.
4598+19 ENTER WATERBODY DE-1C-S117
4598+35 EXIT WATERBODY DE-1C-S117
4598+70 ENTER WATERBODY DE-1C-S117
4598+80 EXIT WATERBODY DE-1C-S117
4599+45 ENTER WETLAND DE-1C-W217
4599+55 EXIT WETLAND DE-1C-W217
4601+01 P.I. 5°44'14" RT.
4604+82 P.I. 11°58'06" LT.
4605+22 P.I. 11°58'06" LT.
4621+74 ℄ DIRT TRAIL
4622+89 ℄ STONE ROW
4623+10 ℄ DIRT TRAIL
4625+78 ℄ DIRT TRAIL
4627+62 ℄ STONE ROW
4627+67 ENTER AGRICULTURAL LAND
4628+33 P.I. 0°27'13" RT.
4629+31 ℄ STONE ROW
4629+88 EXIT AGRICULTURAL LAND
4630+36 ℄ STONE ROW
4631+52 END CLASS 1
BEGIN CLASS 2
4631+99 P.I. 26°16'02" RT.
4632+63 ENTER WETLAND DE-1C-W050A
4632+97 EXIT WETLAND DE-1C-W050A
4634+58 ℄ WATERBODY DE-1T-S050



MATERIAL: 3700' ① — 1616+00 — 1700' ② — 4631+99 P-26-H

CLASS LOCATION: 1 — 2

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

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 | 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

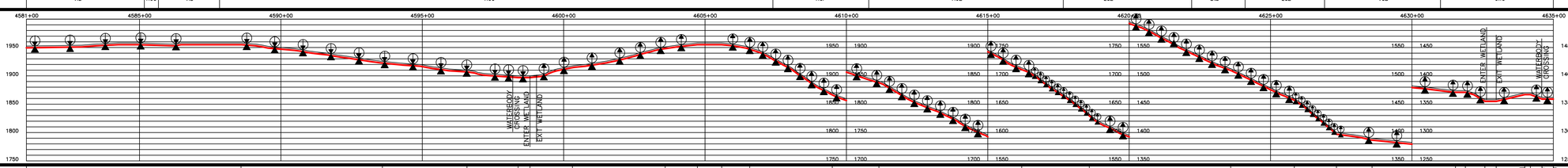
GENERAL E & S FIGURES: 18 19 28 29 29A 30 31 / 37 59 74 75 76 77 86

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

SOIL TYPE: VlB | HcC | VlB | HcC | HcF | HcE | LdE | BtD | LdE | VaB | ChC

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

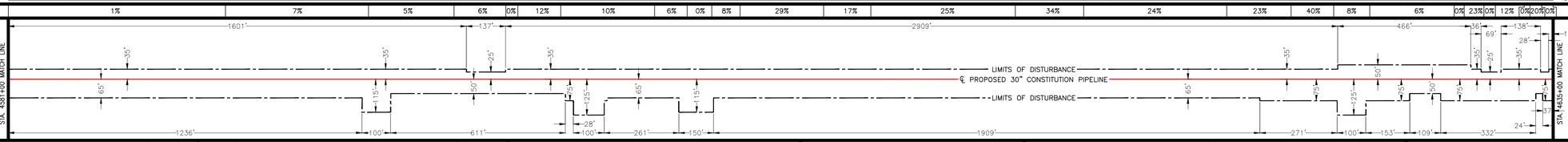
AT A MINIMUM, TRENCH BREAKERS AND SLOPE BREAKERS SHALL BE LOCATED WITHIN 50 FT. OF THE EDGE (BOTH SIDES) OF WETLANDS AND WATERBODIES. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

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: 1% | 7% | 5% | 6% | 0% | 12% | 10% | 6% | 0% | 8% | 29% | 17% | 25% | 34% | 24% | 23% | 40% | 8% | 6% | 0% | 23% | 0% | 12% | 0% | 20% | 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	3700'			
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	1700'			
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

BtD – Bath channery silt loam
ChC – Chenango gravelly silt loam
HcC – Halcott, Mongaup and Vly soils
HcE – Halcott, Mongaup and Vly soils
HcF – Halcott, Mongaup and Vly soils
LdE – Lackawanna and Bath soils
VaB – Valois very fine sandy loam
VlB – Vly 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. 4581+00 TO STA. 4635+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 89 OF 126
W.O.: 1110415			

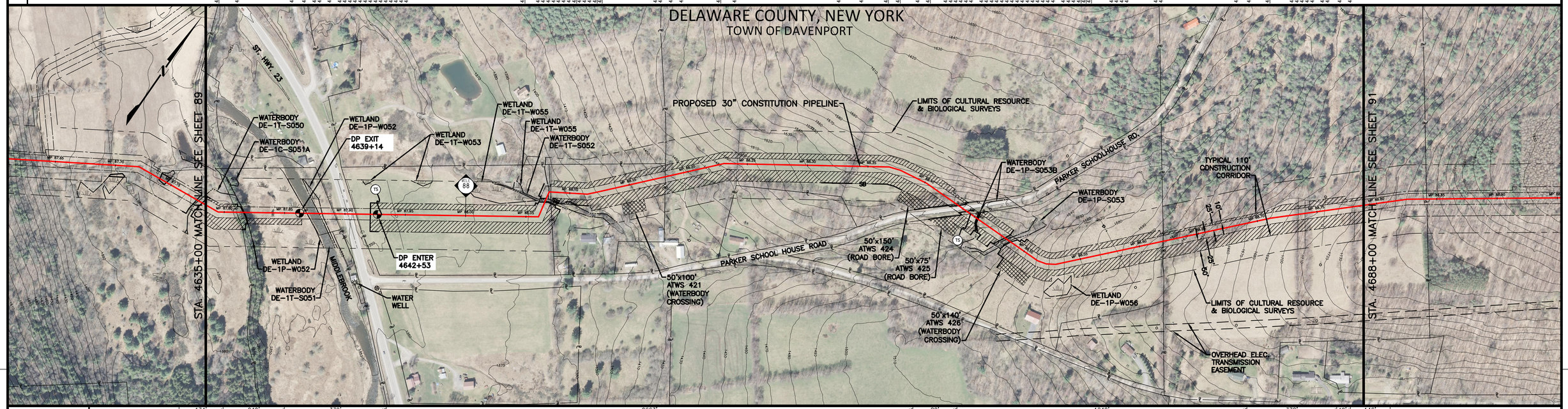
LINE LIST

NY-DE-200.000 | NY-DE-201.000 | NY-DE-202.001 | STATE HWY. 23 | NY-DE-202.001 | NY-DE-204.000 | NY-DE-205.000 | PARKER SCHOOLHOUSE RD. | NY-DE-205.000 | NY-DE-207.000

4635+00 | 4636+37 | 4639+46 | 4640+66 | 4641+60 | 4650+83 | 4655+94 | 4669+20 | 4669+94 | 4679+15 | 4688+00

PIPELINE STATIONING

4635+58 P.I. 28°32'36" LT.
4636+72 ENTER WETLAND DE-1P-W052
4639+14 DP EXIT
4639+45 TOP of SLOPE
4639+53 ENTER WATERBODY DE-1T-S051
4639+75 EXIT WATERBODY DE-1T-S051
4639+98 ENTER WATERBODY DE-1T-S051
4640+00 PP. 168' LT.
4640+13 EXIT WETLAND DE-1P-W052
4640+15 UTILITY POWER LINE
4640+71 TOP of SLOPE
4640+93 TOP of SLOPE
4641+05 GP. 105' RT.
4641+25 ENTER AGRICULTURAL LAND
4641+25 ℄ STATE HWY. 23
4641+25 EXIT AGRICULTURAL LAND
4641+65 BURIED CABLE
4642+39 PP. 208' LT.
4643+33 UTILITY POWER LINE
4649+59 P.I. 67°12'53" LT.
4649+86 EXIT AGRICULTURAL LAND
4650+30 TOP of SLOPE
4650+41 ENTER WATERBODY DE-1T-S052
4650+41 EXIT WATERBODY DE-1T-S052
4650+43 ENTER WETLAND DE-1T-W055
4650+71 EXIT WETLAND DE-1T-W055
4650+71 EXIT WETLAND DE-1T-W055
4650+83 ℄ STONE ROW
4651+88 ENTER AGRICULTURAL LAND
4651+88 EXIT AGRICULTURAL LAND
4652+44 P.I. 16°07'41" LT.
4652+53 P.I. 0°00'00" RT.
4655+80 EXIT AGRICULTURAL LAND
4655+94 EXISTING FENCE
4656+29 ENTER AGRICULTURAL LAND
4656+76 ℄ GRASS FARM ROAD
4658+57 P.I. 13°45'30" RT.
4659+16 ℄ STONE ROW
4664+21 ℄ STONE ROW
4664+75 END CLASS 2 BEGIN CLASS 1
4665+81 P.I. 15°00'00" RT.
4666+31 P.I. 10°00'00" RT.
4667+32 END CLASS 1 BEGIN CLASS 2
4667+50 P.I. 8°45'15" RT.
4668+78 EXIT AGRICULTURAL LAND
4669+14 ℄ STONE ROW
4669+15 TOP of SLOPE
4669+19 TOP of SLOPE
4669+25 ℄ FIBER OPTIC LINE
4669+36 TOP of SLOPE
4669+36 ℄ PARKER SCHOOLHOUSE RD.
4669+60 ENTER AGRICULTURAL LAND
4669+61 EXISTING FENCE
4669+83 EXIT AGRICULTURAL LAND
4670+30 ENTER WATERBODY DE-1P-S053B
4670+30 EXIT WATERBODY DE-1P-S053B
4670+30 ℄ WATERBODY DE-1P-S053B
4670+31 TOP of SLOPE
4670+56 TOP of SLOPE
4671+62 EXIT AGRICULTURAL LAND
4671+88 ENTER AGRICULTURAL LAND
4671+88 ENTER WATERBODY DE-1P-S053
4671+93 TOP of SLOPE
4672+33 EXIT WATERBODY DE-1P-S053
4672+33 EXIT AGRICULTURAL LAND
4673+52 P.I. 13°47'01" LT.
4674+15 P.I. 13°47'01" LT.
4674+43 P.I. 13°47'01" LT.
4676+75 PP. 117' LT.
4676+81 GP. 97' LT.
4677+57 UTILITY POWER LINE
4677+57 PP. 102' RT.
4679+02 EXIT AGRICULTURAL LAND
4679+11 EXISTING FENCE
4682+87 ℄ STONE ROW
4683+09 ENTER AGRICULTURAL LAND
4683+95 P.I. 4°09'28" RT.
4685+17 EXIT AGRICULTURAL LAND
4685+48 ℄ STONE ROW
4685+48 ENTER AGRICULTURAL LAND
4685+83 PP. 231' RT.
4686+34 UTILITY POWER LINE
4686+47 PP. 59' LT.
4687+31 EXIT AGRICULTURAL LAND
4687+73 ℄ STONE ROW



MATERIAL

4635+58 2-29-H (2) | 174' | 4636+74 | 240' (6) | 4639+14 | 339' (4) | 4642+53 | 2663' (2) | 4649+59 2-64-H | 4650+78 2-70-H | 4652+16 | 80' (4) | 4669+17 3-30-H | 4669+96 | 1240' (2) | 4682+36 | 378' (1) | 4686+14 | 40' (3) | 4686+54 | 146' (1)

CLASS LOCATION: 2 | 1 | 2

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

ENVIRONMENTAL SITE SPECIFIC E & S: 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 | 4 15A | 2A 5 6 7 18 19 29 29A 32 33 34 35 37 40 58 73 | 15A 44 45 | 2A 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

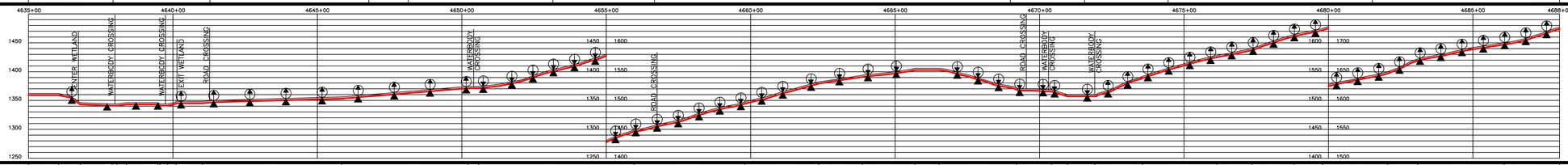
DEPTH OF COVER: 4' | 5' | 4' | 5' | 4' | 5' | 4' | 5' | 4' | 5' | 4' | 3' | 4' | 3'

SOIL TYPE: ChC | Ff | TtA | ChB | VaB | BtC | BtD | WfC | MdC | BtD | BtC

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.

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 SITE 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: 0% | 21% | 2% | 0% | 6% | 0% | 29% | 0% | 21% | 3% | 0% | 2% | 4% | 0% | 16% | 13% | 14% | 8% | 7% | 0% | 13% | 0% | 15% | 0% | 20% | 14% | 10% | 16% | 11% | 11% | 21% | 9% | 13%

WORKSPACE SCHEMATIC

STA. 4635+00 MATCH LINE — ST. HWY. 23 — PARKER SCHOOLHOUSE RD. — STA. 4688+00 MATCH LINE

141' | 583' | 718' | 69' | 1781' | 70' | 168' | 651' | 485' | 54' | 5' | 158' | 67'

LIMITS OF DISTURBANCE
℄ PROPOSED 30" CONSTITUTION PIPELINE
LIMITS OF DISTURBANCE

178' | 245' | 300' | 802' | 221' | 135' | 100' | 1194' | 50' | 75' | 61' | 56' | 140' | 68' | 83' | 1297'

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	524'
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	4077'
3	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	40'
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	419'
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	240'
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

BtC – Bath channery silt loam
BtD – Bath channery silt loam
ChB – Chenango gravelly silt loam
ChC – Chenango gravelly silt loam
Ff – Fluvaquents–Udifluvents complex
MdC – Mardin channery silt loam
TtA – Tunkhannock and Chenango soils
VaB – Valois very fine sandy loam
WfC – Wellsboro and Mardin 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 26–07–85/NY–DE–202.004–1–B 26–07–85/XX.XX–1–A 26–07–85/NY–DE–205.004–1–B	TYPICAL RIGHT–OF–WAY CROSS SECTIONS STATE HIGHWAY 23 DIRECT PIPE PARKER SCHOOLHOUSE ROAD

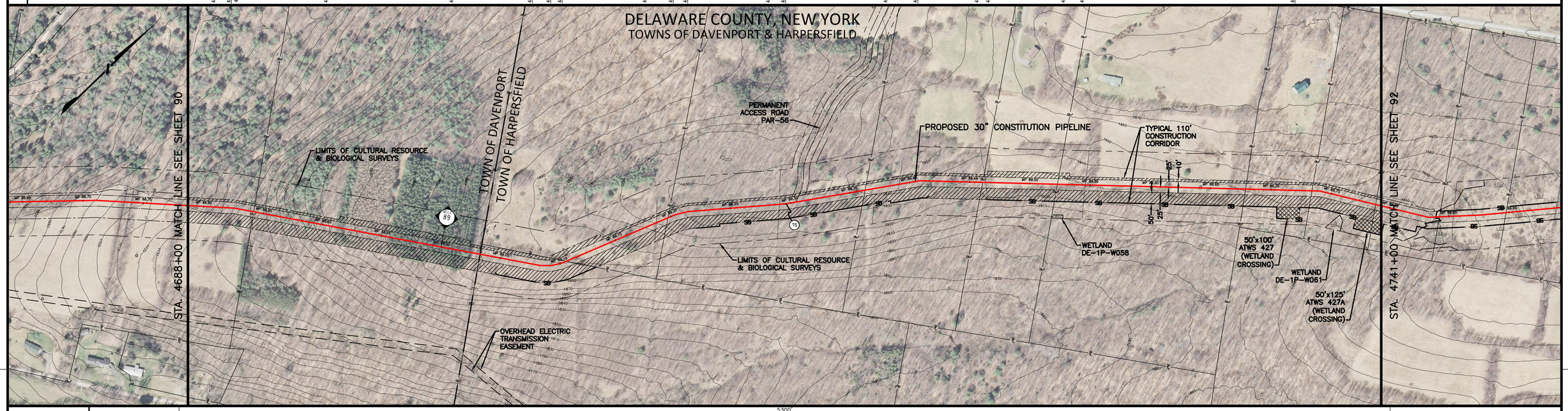
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK	APP.
3	07/24/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #1 ER	1110415	JRL	TK
4	10/07/13	GIE	ISSUED FOR BID #1	1110415	JRL	TK
5	11/08/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #2 ER	1110415	JRL	TK
6	06/02/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #3 ER	1110415	JRL	TK
7B	07/14/14	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. 4635+00 TO STA. 4688+00
DELAWARE COUNTY, NEW YORK

CONSTITUTION PIPELINE

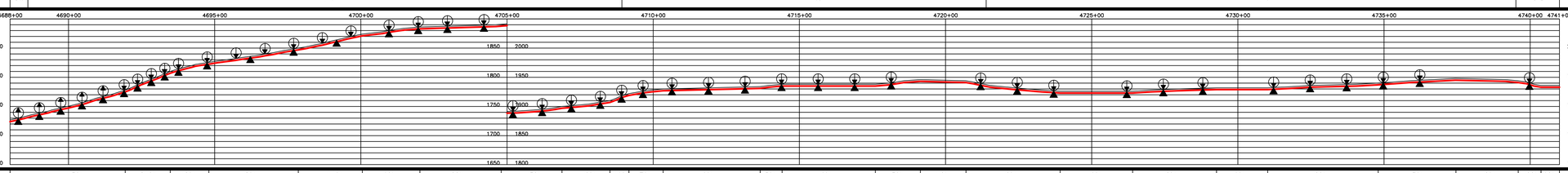
DRAWN BY: GIE	DATE: 09/26/12	ISSUED FOR BID:	SCALE: 1" = 200'
CHECKED BY: GIE	DATE: 09/27/12	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26–03–70/0001	SHEET 90 OF 126
W.O.: 1110415			

LINE LIST	4688+00 (NY-DE-207.000) 4690+85 (NY-DE-208.000) (DENIED SURVEY ACCESS) 4700+93 (NY-DE-209.000) (DENIED SURVEY ACCESS) 4704+79 (NY-DE-210.000) (DENIED SURVEY ACCESS) 4709+62 (NY-DE-211.000) 4718+35 (NY-DE-212.000) 4723+54 (NY-DE-213.000) 4726+80 (NY-DE-214.000) 4735+04 (NY-DE-215.000) (DENIED SURVEY ACCESS) 4737+95 (NY-DE-216.000) (RESCINDED SURVEY ACCESS) 4740+80 (NY-DE-217.000) 4741+00
PIPELINE STATIONING	4689+47 ℄ STONE ROW; 4690+00 P.I. 72831° RT.; 4690+10 END CLASS 2 BEGIN CLASS 1; 4694+60 ENTER AGRICULTURAL LAND; 4700+40 EXIT AGRICULTURAL LAND; 4703+92 P.I. 11°30'00" LT.; 4704+10 P.I. 11°39'30" LT.; 4704+58 P.I. 11°30'00" LT.; 4709+06 ℄ STONE ROW; 4709+95 P.I. 9°19'38" RT.; 4710+54 P.I. 9°19'38" RT.; 4714+55 ℄ STONE ROW; 4714+83 P.I. 5°11'35" LT.; 4719+87 ℄ STONE ROW; 4720+78 P.I. 11°11'10" RT.; 4723+66 ℄ STONE ROW; 4723+87 ENTER AGRICULTURAL LAND; 4727+52 EXIT AGRICULTURAL LAND; 4728+03 ℄ STONE ROW; 4738+29 P.I. 12°10'36" RT.



MATERIAL	5300' ①																														
CLASS LOCATION	2	1																													
LAND USE	UF	AG	UF	OL	UF	IR	UF	AG	UF	OL	UF																				
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	3'	4'	3'	4'	3'	4'	3'	4'	3'																						
SOIL TYPE	BtC	MnC	HcC	MnC	OnB																										

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 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

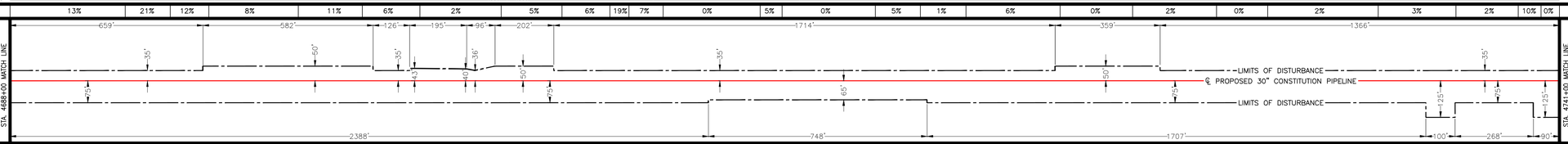
SLOPE (%)	SPACING (FT)
<5	AS REQ.
5–10	150
>10–15	100
>15–20	80
>20–30	70
>30–40	50
>40–100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING

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

AVERAGE % SLOPE	13%	21%	12%	8%	11%	6%	2%	5%	6%	19%	7%	0%	5%	0%	5%	1%	6%	0%	2%	0%	2%	3%	2%	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	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

BtC – Bath channery silt loam
HcC – Halcott, Mongaup and Vly soils
MnC – Mongaup channery loam
OnB – Ontusia 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. 4688+00 TO STA. 4741+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 91 OF 126
W.O.: 1110415			

| LINE LIST | | |

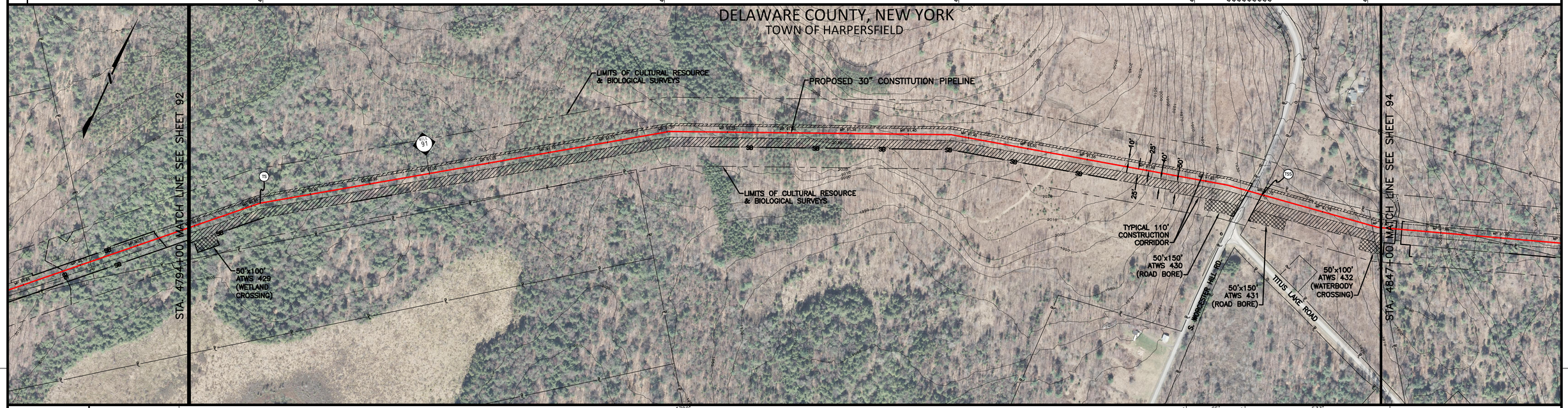
LINE LIST

4794+00 | NY-DE-226.000 (DENIED SURVEY ACCESS) | S. WORCESTER HILL RD. 4841+03 – 4841+65 | NY-DE-226.000 (DENIED SURVEY ACCESS) | NY-DE-229.000 (DENIED SURVEY ACCESS) 4846+66 – 4847+00

PIPELINE STATIONING

4797+27 P.I. 9°06'26" RT. | 4815+46 P.I. 10°37'10" RT. | 4827+78 P.I. 9°37'35" RT. | 4840+10 P.I. 52°41'05" RT. | 4846+93 P.I. 10°48'47" LT.

4840+40 PP, 21.5' RT
4840+51 PP, 10' RT
4840+67 PP, 10' RT
4840+83 UTILITY POWER LINE
4840+93 UTILITY POWER LINE
4841+03 TOE OF SLOPE
4841+15 TOE OF SLOPE
4841+19 TOE OF S. WORCESTER HILL RD.
4841+43 PP, 10.2' LT



MATERIAL	4702' ①	65' ④	533' ①				
CLASS LOCATION	1						
LAND USE	IR	UF	RD	UF	IR		
ENVIRONMENTAL SITE SPECIFIC E & S			44 45 15A				
DEPTH OF COVER	3'	5'	3'				
SOIL TYPE	WhB	WnC	HcC	MnC	LeC	MnC	OnA

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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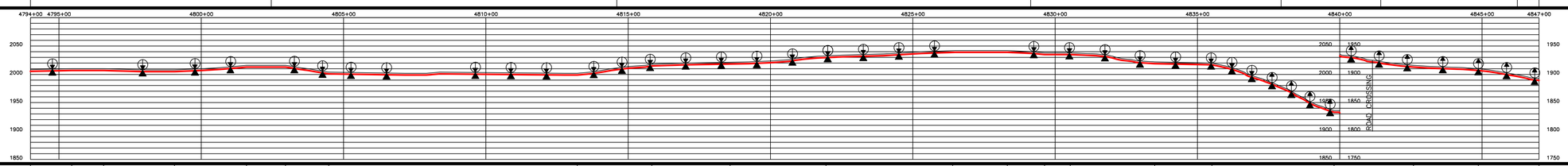

THE LOCATIONS OF TRENCH BREAKERS AND SLOPE BREAKERS SHOWN ON THE PROFILE SHALL BE USED AS A GUIDELINE ONLY. THE ACTUAL LOCATION OF THE BREAKERS SHALL BE DETERMINED IN THE FIELD BASED ON FIELD CONDITIONS, BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

PERMANENT SLOPE BREAKERS (ARROW INDICATES PLAN VIEW FLOW DIRECTION)

PERMANENT TRENCH BREAKER

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PERMANENT TRENCH BREAKER SPACING IN AGRICULTURAL LAND

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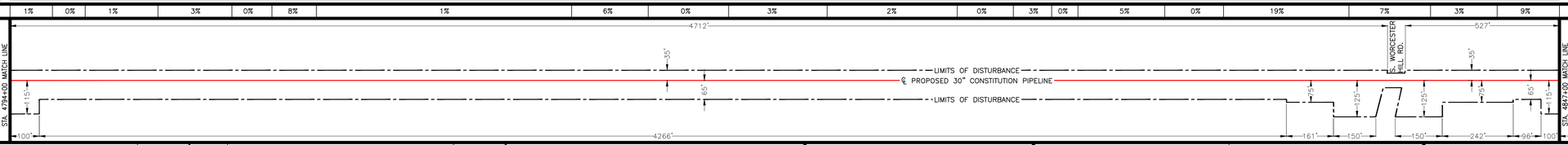
>10–15	100
>15–20	80
>20–30	70
>30–40	50
>40–100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING

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

AVERAGE % SLOPE: 1% | 0% | 1% | 3% | 0% | 8% | 1% | 6% | 0% | 3% | 2% | 0% | 3% | 0% | 5% | 0% | 19% | 7% | 3% | 9%

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	5235'			
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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	65'			
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

HcC – Halcott, Mongaup and Vly soils
LeC – Lewbath flaggy loam
MnC – Mongaup channery loam
OnA – Ontusia channery silt loam
WhB – Willdin channery silt loam
WnC – Willowemoc and Willdin 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 26–07–85/NY–DE–226.003–1–B	TYPICAL RIGHT–OF–WAY CROSS SECTIONS S. WORCHESTER 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. 4794+00 TO STA. 4847+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 93 OF 126
W.O.: 1110415			