

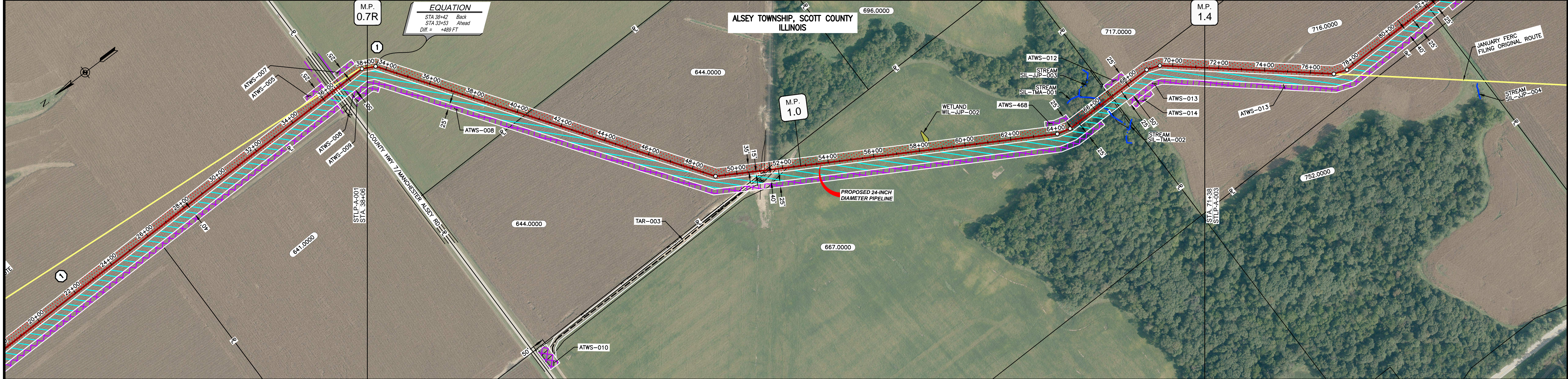
	PROPOSED 24-INCH DIAMETER PIPELINE
	PROPOSED 24-INCH NORTH COUNTY EXTENSION
	JANUARY FERC FILING ROUTE
	CENTERLINE OF ROAD
	EDGE OF PAVEMENT
	EXISTING WALL
	FOREIGN GAS PIPELINE
	EXISTING GAS PIPELINE
	OVERHEAD POWER LINE
	EXISTING FIBER OPTIC LINE
	EXISTING TELEPHONE LINE
	EXISTING WATER LINE
	EXISTING FENCE LINE
	MMID
	PROPERTY LINE
	MUNICIPAL LINE
	COUNTY LINE
	STATE LINE
	ε OF STREAM (DESKTOP)
	ε OF STREAM (DELINEATED)
	WETLAND (DESKTOP)
	WETLAND (DELINEATED)
	EXISTING PERMANENT EASEMENT
	PROPOSED PERMANENT EASEMENT
	TEMPORARY WORKSPACE
	ADDITIONAL TEMPORARY WORKSPACE (ATWS)
	PROPOSED STAGING AREA
	PROPOSED ACCESS ROAD
	UTILITY POLE
	CULVERT
	PIPE MARKER POST
	WATER UTILITY
	TELEPHONE UTILITY
	TELEPHONE (FIBER OPTIC)
	ELECTRIC UTILITY
	VALVE
	LIGHT POLE
	UTILITY TOWER
	STORM DRAIN
	STORM UTILITY
	SEWER MANHOLE

LAND USE TYPES	
AG	AGRICULTURAL
OW	WATER
D	DEVELOPED
F	FOREST
W	WETLAND
OL	OPEN LAND

PIPELINE REROUTE

REFERENCE DRAWINGS		REFERENCE DRAWINGS		REVISIONS					REVISIONS					APPROVALS					PREPARED FOR	PREPARED BY	SPIRE STL PIPELINE PROJECT									
DWG. NO.	TITLE	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	ENG. APPROVAL	DATE	CLIENT APPROVAL	DATE	STLP-CS-002	Spire STL Pipeline	M MOTT MACDONALD	LEGEND SHEET					
				1	ISSUE FOR FERC	01/2017										AKY	03/2017	DGG	04/2017											
				2	AMENDMENT TO FERC	04/2017										RJP	04/2017	JEV	04/2017											

OWNERSHIP / FOOTAGE	38+06	720'	40+37	1087'	51+24	1568'	66+92	446'	71+38
STATIONING	<p>38+06 P.L. 27+38.92 I.I. 38+42 END LINE CHANGE BACK STA. 38+42 AHEAD STA. 38+42</p> <p>40+37 PROPERTY LINE</p> <p>51+24 P.L. 24+02.12 I.I.</p> <p>51+20 OVERHEAD LINE 51+20 OVERHEAD LINE 51+24 PROPERTY LINE 51+24 GUY WIRE 51+24 GUY WIRE 51+24 GUY WIRE 51+24 GUY WIRE 51+24 GUY WIRE</p> <p>66+92 P.L. 14+31.57 I.I. 66+92 P.L. 14+31.57 I.I.</p> <p>66+92 CENTERLINE OF DITCH 66+92 CENTERLINE OF DITCH 66+92 FENCE 66+92 FENCE 66+92 FENCE 66+92 FENCE</p> <p>71+38 P.L. 20+03.33 I.I. 71+38 P.L. 20+03.33 I.I.</p>								



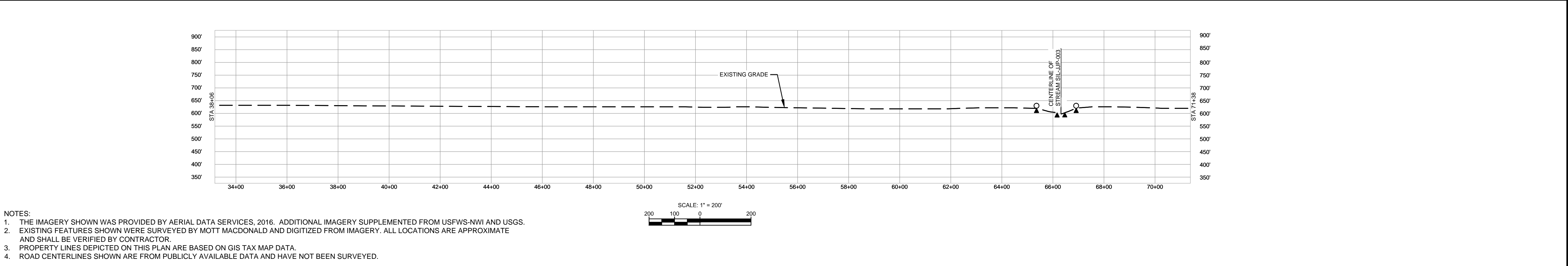
CLASS LOCATION/MAOP	CLASS 1 / 1440 PSIG									
MATERIAL & COATING	38+06									
DESIGN FACTOR	0.72									
CONSTRUCTION METHOD	OPEN CUT									
PIPELINE COVER	5'									
SOILS	43A	50A	43A	257A	279B	279C3	279B	279C3	279B	279C3
LAND USE			AG	OL D	OL	AG		F	OL	AG

THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER
SOCK AT WATERBAR DISCHARGE
PERMANENT TRENCH PLUG

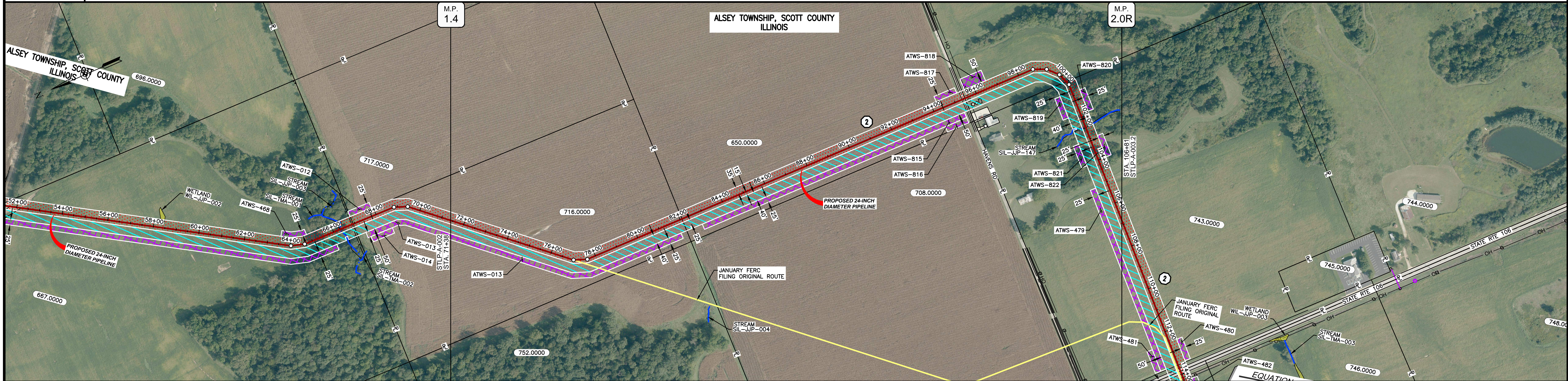
ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15 - 30%	200	200
>30%	100	100

MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10 - 15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



MATERIAL			REFERENCE DRAWINGS			REVISIONS			APPROVALS			PREPARED FOR			SPIRE STL PIPELINE PROJECT				
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN: 1" = 200'	PREPARED BY			ALIGNMENT SHEET		
1	3821'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	1/2017	GH	EB	DGG	DP	03/2017	SCALE PROFILE H: 1" = 200'	Spire STL Pipeline			PROPOSED 24-INCH DIAMETER PIPELINE		
					2	AMENDMENT TO FERC	04/2017	DP	SG	DGG	RJP	03/2017	SCALE PROFILE V: 1" = 200'	MOTT MACDONALD			SCOTT COUNTY, ILLINOIS		
											ENG. APPROVAL	DATE	CLIENT APPROVAL	PREPARED BY			STA. 38+06 TO STA. 71+38		
											D.G.G.	04/2017	DATE	MOTT MACDONALD			SCALE		
											P.M. APPROVAL	DATE	DATE	DRAWING NO.			REVISION		
											J.E.W.	04/2017	DATE	1" = 200'			STLP-A-002		
														2					

OWNERSHIP / FOOTAGE		719.8	716.0000 1071'	824.09	850.0000 1337'	854.6	851.0000 485'	1004.31	743.0000 650'	1064.81
STATIONING			7140' BEGIN LINE CHANGE 7150' P.L. & 272727' L.L. 7145' P.L. & 272727' L.L.	8240' PROPERTY LINE		8443' EDGE OF PAVEMENT 8438' CENTERLINE OF HAVENS ROAD 8446' EDGE OF PAVEMENT 8446' PROPERTY LINE 8446' OVERHEAD LINE	8404.8 P.L. & 272727' L.L. 8409.8 P.L. & 272727' L.L. 8404.8 P.L. & 272727' L.L. 1004' PROPERTY LINE 1004.8 P.L. & 272727' L.L. 1004.8 P.L. & 272727' L.L. 1004' CENTERLINE OF DITCH 1004' CENTERLINE OF STREAM, ST. JP-47			



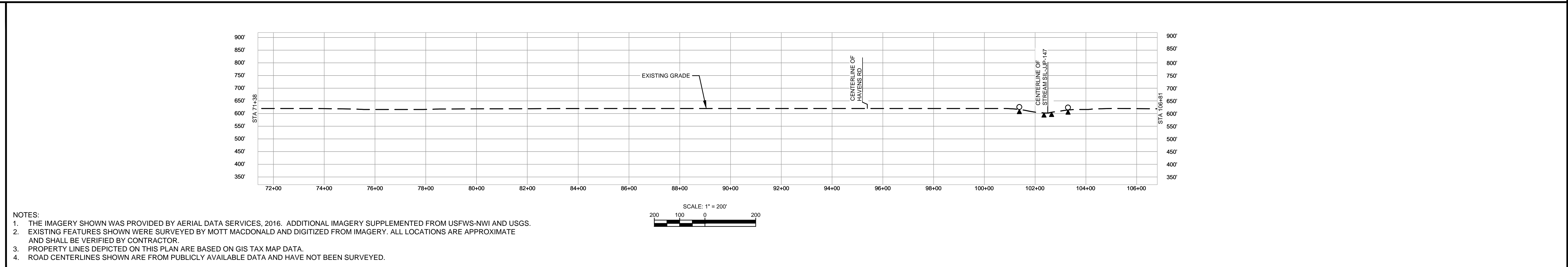
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG																															
MATERIAL & COATING	<table border="1"> <tr> <td>71+38</td> <td colspan="2">2361'</td> <td>84+89</td> <td>85+79</td> <td colspan="2">1102'</td> <td>106+81</td> <td colspan="3"></td> </tr> <tr> <td></td> <td>1</td> <td></td> <td>2</td> <td></td> <td>1</td> <td></td> <td></td> <td colspan="3"></td> </tr> </table>										71+38	2361'		84+89	85+79	1102'		106+81					1		2		1					
71+38	2361'		84+89	85+79	1102'		106+81																									
	1		2		1																											
DESIGN FACTOR	0.72, 0.6, 0.72																															
CONSTRUCTION METHOD	OPEN CUT, BORE, OPEN CUT																															
PIPELINE COVER	5'																															
SOILS	279C3	279B	17A	279B	43A	17A	279B	279C3	279B	17A																						
LAND USE	AG, D, AG, F, D, F, AG																															

THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER
SOOK AT WATERBAR DISCHARGE
PERMANENT TRENCH PLUG

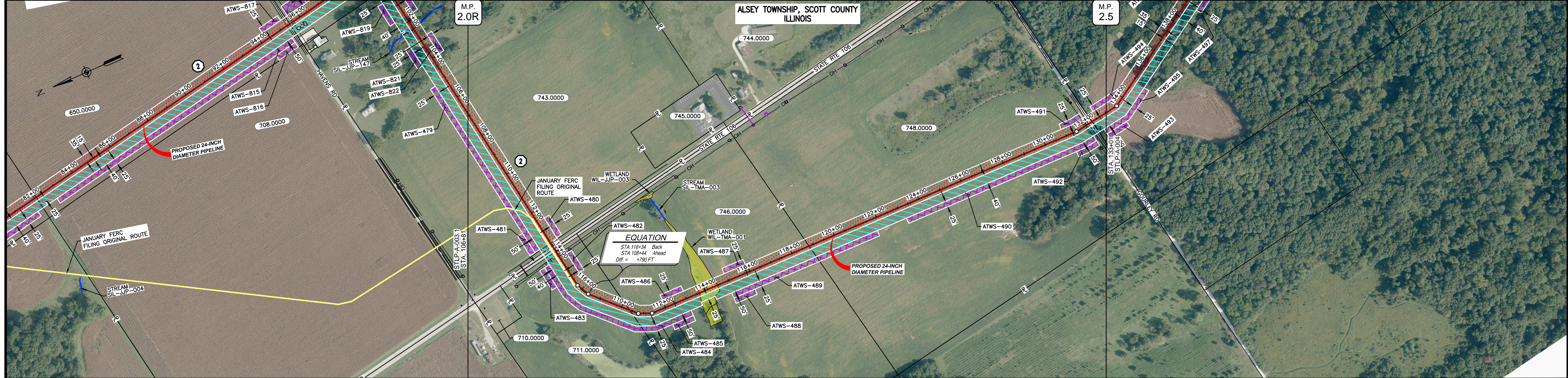
ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15 - 30%	200	200
>30%	100	100

MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10 - 15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



MATERIAL			REFERENCE DRAWINGS		REVISIONS				APPROVALS		SCALE PLAN		PREPARED FOR		SPIRE STL PIPELINE PROJECT			
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN: 1" = 200'	PREPARED FOR		ALIGNMENT SHEET		
1	3463'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	1/2017	GH	EB	DGG	DP	03/2017	SCALE PROFILE H: 1" = 200'	Spire STL Pipeline		PROPOSED 24-INCH DIAMETER PIPELINE SCOTT COUNTY, ILLINOIS STA. 71+38 TO STA. 106+81		
2	80'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED			2	AMENDMENT TO FERC	04/2017	DP	SG	DGG		03/2017	SCALE PROFILE V: 1" = 200'					
											CHECKED BY	DATE	CLIENT APPROVAL		PREPARED BY			
											ENG. APPROVAL	DATE	DATE		MOTT MACDONALD			
											D.G.G.	04/2017	DATE					
											P.M. APPROVAL	DATE	DATE					
											J.E.W.	04/2017	DATE		SCALE: 1" = 200'			
													DRAWING NO.		REVISION			
													STLP-A-003.1		2			

OWNERSHIP / FOOTAGE		743.0000	711.0000	746.0000	748.0000	737.0000	
		704'	442'	844'	1346'	74'	
STATIONING		106+81	113+85	119+37	119+81	133+27	
			113+46 CENTERLINE OF DITCH 113+72 EDGE OF PAVEMENT 113+86 CENTERLINE OF STATE ROUTE 108 114+4 CENTERLINE OF PAVEMENT 114+4 OVERHEAD LINE 119+4 END LINE CHANGE 119+4 END LINE CHANGE AHEAD STA. 188+44 110+57 PROPERTY LINE 110+57 PROPERTY LINE 111+58 P.L. & 22+52 P.L.I. 111+58 P.L. & 22+52 P.L.I.		113+46 ENTER WETLAND W/L TMA-001 114+46 EXIT WETLAND W/L TMA-001		119+81 PROPERTY LINE 131+48 P.L. & 22+02 P.L.I. 131+48 P.L. & 22+02 P.L.I. 132+18 EDGE OF PAVEMENT 132+18 CENTERLINE OF COURLEY ROAD 132+42 PROPERTY LINE 132+42 EDGE OF PAVEMENT



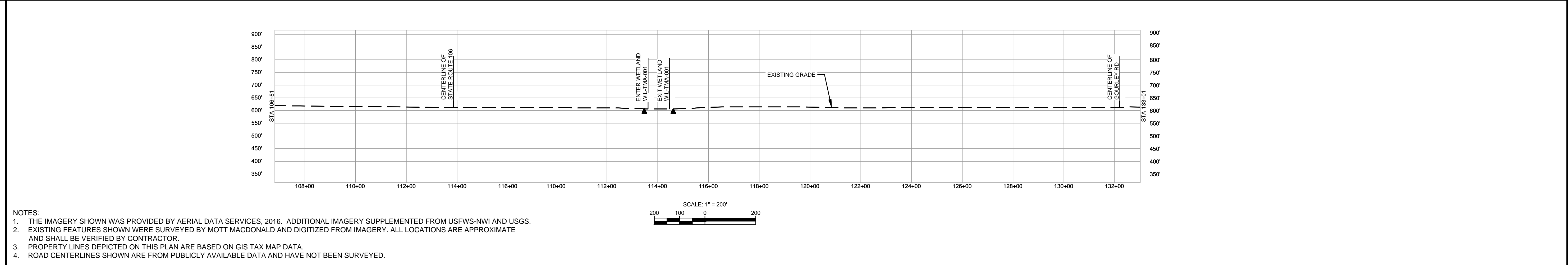
CLASS LOCATION/MAOP		CLASS I / 1440 PSIG				
MATERIAL & COATING		106+81	113+45	114+25	131+79	133+01
DESIGN FACTOR		0.72	0.6	0.72	0.6	0.72
CONSTRUCTION METHOD		OPEN CUT	BORE	OPEN CUT	BORE	OPEN CUT
PIPELINE COVER		5'				
SOILS		17A	119D3	17A	19C3	17A
LAND USE		AG	OL D	AG	W	AG

THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER
SOOK AT WATERBAR DISCHARGE
PERMANENT TRENCH PLUG

ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15 - 30%	200	200
>30%	100	100

MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10 - 15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100

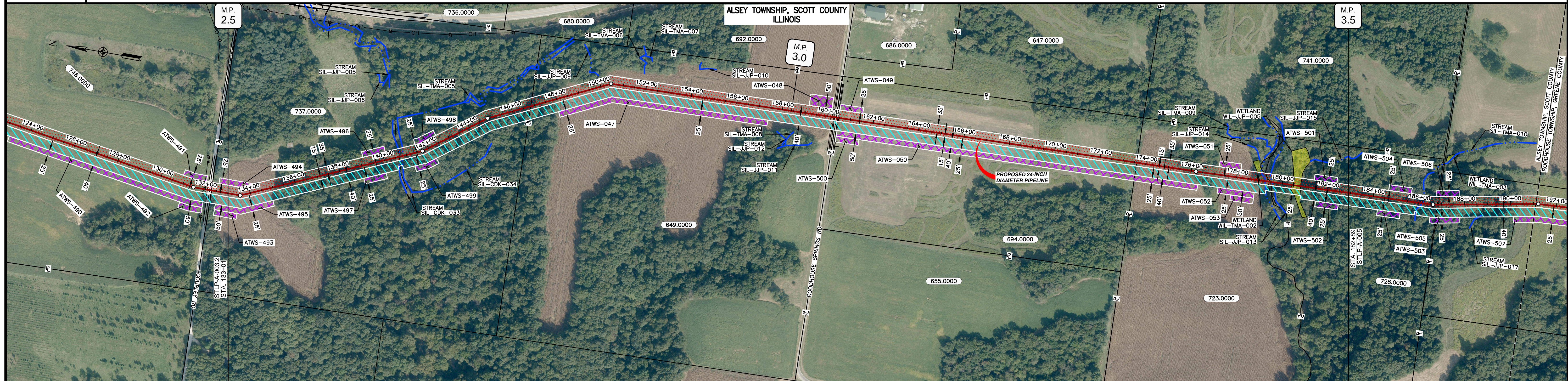


MATERIAL		REFERENCE DRAWINGS		REVISIONS				APPROVALS		PREPARED FOR		SPIRE STL PIPELINE PROJECT			
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN BY	CK	APPR	DRAWN BY	DATE	SCALE PLAN: 1" = 200'	SCALE PROFILE H: 1" = 200'	SCALE PROFILE V: 1" = 200'
1	3250'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	1/2017	GH	EB	DGG	DP	03/2017			
2	160'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED			2	AMENDMENT TO FERC	04/2017	DP	SG	DGG	RJP	03/2017			

CLIENT APPROVAL	DATE	PREPARED BY
D.G.G.	04/2017	MOTT MACDONALD
P.M. APPROVAL	DATE	
J.E.W.	04/2017	

SCALE	DRAWING NO.	REVISION
1" = 200'	STLP-A-003.2	2

OWNERSHIP / FOOTAGE	133+01	1385'	146+84	1366'	160+38	694.0000'	172+59	587'	179+48	345'	182+89
STATIONING		133+56 P.L. < 23+361' LT	140+70 EDGE OF STREAM SIL-CDK-033 140+70 EDGE OF STREAM SIL-CDK-033 141+72 P.L. < 13+022' LT	144+88 P.L. < 11+078' ST	146+84 PROPERTY LINE	150+48 P.L. < 14+958' ST	160+38 OVERHEAD LINE 160+38 CENTERLINE OF DITCH 160+38 EDGE OF PAVEMENT 160+38 EDGE OF PAVEMENT 160+38 EDGE OF PAVEMENT 160+38 CENTERLINE OF DITCH	172+59 172+40 PROPERTY LINE	179+48 178+41 P.L. < 32+24' LT	179+48 179+46 EDGE OF STREAM SIL-JUP-013 179+48 PROPERTY LINE 180+41 ENTER WETLAND WIL-JUP-013 180+41 ENTER WETLAND WIL-JUP-013 180+41 ENTER WETLAND WIL-JUP-013	182+89 182+89



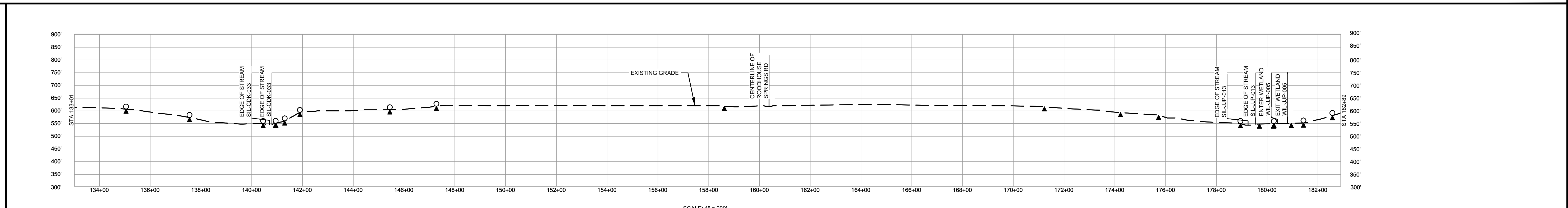
CLASS LOCATION/MAOP	CLASS 1 / 1440 PSIG																		
MATERIAL & COATING	133+01											182+89							
DESIGN FACTOR	0.72		0.6		0.72														
CONSTRUCTION METHOD	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT			BORE	OPEN CUT			OPEN CUT (FLUMED)	OPEN CUT								
PIPELINE COVER	5'																		
SOILS	279B	280D3	8E2	3078A	8F	280D2	279B	17A	119D3	279B	280C2	8E2	3333A	8F					
LAND USE	AG	F	OW	F	AG	F	AG	OL	D	OL	AG	F	OL	AG	F	OW	F	W	F

THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER
SOOK AT WATERBAR DISCHARGE
PERMANENT TRENCH PLUG

ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

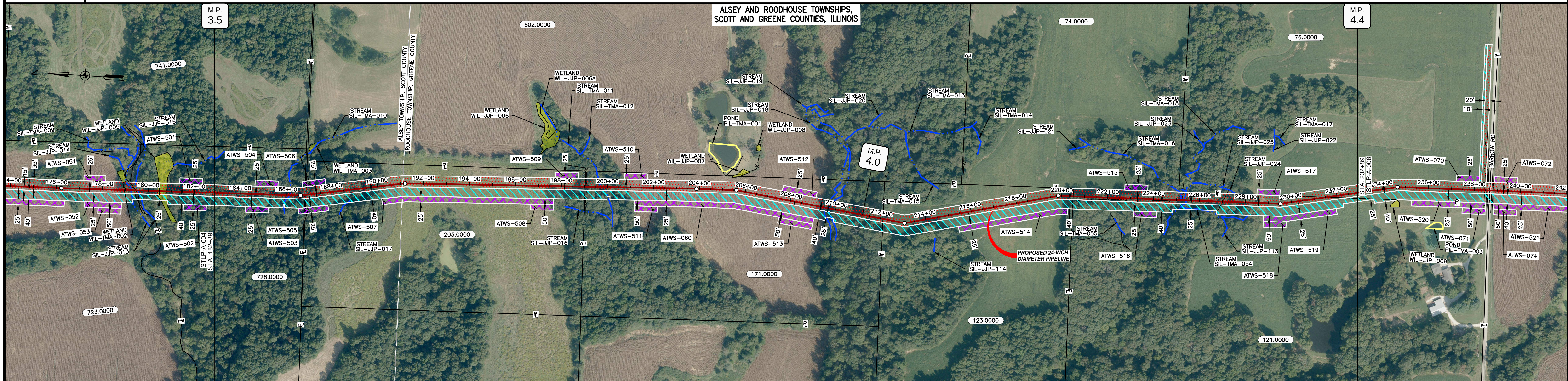
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



- NOTES:
1. THE IMAGERY SHOWN WAS PROVIDED BY AERIAL DATA SERVICES, 2016. ADDITIONAL IMAGERY SUPPLEMENTED FROM USFWS-NWI AND USGS.
 2. EXISTING FEATURES SHOWN WERE SURVEYED BY MOTT MACDONALD AND DIGITIZED FROM IMAGERY. ALL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
 3. PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED ON GIS TAX MAP DATA.
 4. ROAD CENTERLINES SHOWN ARE FROM PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN SURVEYED.

MATERIAL			REFERENCE DRAWINGS			REVISIONS				APPROVALS			PREPARED FOR		SPIRE STL PIPELINE PROJECT		
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN: 1" = 200'	Spire STL Pipeline	ALIGNMENT SHEET PROPOSED 24-INCH DIAMETER PIPELINE SCOTT COUNTY, ILLINOIS STA. 133+01 TO STA. 182+89		
1	4908'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	1/2017	GH	EB	DGG	DP	03/2017	SCALE PROFILE H: 1" = 200'				
2	80'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED			2	AMENDMENT TO FERC	04/2017	KAM	RJP	DGG	CHECKED BY	DATE	SCALE PROFILE V: 1" = 200'	PREPARED BY M M MOTT MACDONALD			
											ENG. APPROVAL	DATE	CLIENT APPROVAL				
											D.G.G.	04/2017	DATE				
											J.E.W.	04/2017	DATE				
													SCALE	DRAWING NO.	REVISION		
													1" = 200'	STLP-A-004	2		

OWNERSHIP / FOOTAGE	182+89	392'	188+81	1222'	188+83	171.0000	1307'	212+10	123.0000	840'	220+80	121.0000	1102'	231+82	78.0000	137'	232+89
STATIONING	186+48 CENTERLINE OF STREAM SIL-TMA-010 186+89 P.L. < 7+20' ST. 11 187+10 PROPERTY LINE 187+10 ALLEY FRONT AND ROODHOUSE 187+10 GREENE AND SCOTT COUNTIES LINE 187+20 P.L. < 7+20' ST. 11 189+40 PROPERTY LINE 189+40 FENCE 189+40 CENTERLINE OF STREAM SIL-TMA-011 200+40 P.L. < 11+50' ST. 11 200+40 P.L. < 11+50' ST. 11 200+40 EDGE OF STREAM SIL-JUP-018 200+40 EDGE OF STREAM SIL-JUP-018 212+10 PROPERTY LINE 212+10 P.L. < 11+50' ST. 11 218+40 P.L. < 20+00' ST. 11 220+80 PROPERTY LINE 220+80 P.L. < 20+00' ST. 11 225+40 FENCE 225+40 CENTERLINE OF STREAM SIL-TMA-018 227+00 CENTERLINE OF DITCH 228+80 P.L. < 11+50' ST. 11 231+80 PROPERTY LINE																



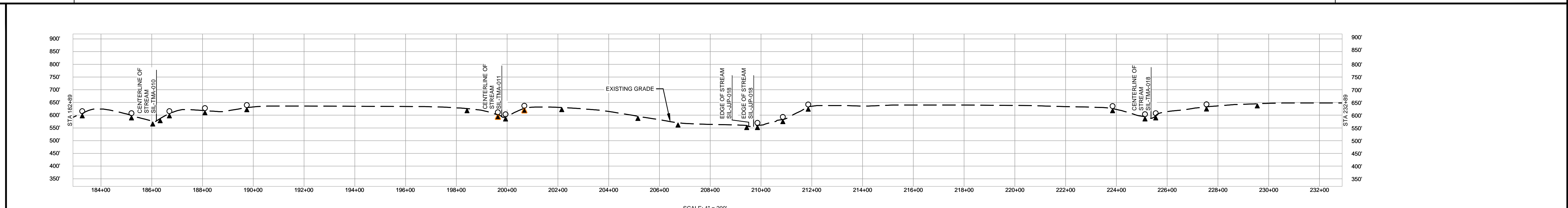
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG																				
MATERIAL & COATING	5000' (1)																				
DESIGN FACTOR	0.72																				
CONSTRUCTION METHOD	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT	OPEN CUT (FLUMED)	OPEN CUT				
PIPELINE COVER	5'																				
SOILS	8F	8F	279D2	279B	279D2	279B	279B	279D2	8F	279D2	279B	8F2	242A	3451A	8F	280B	279B	279D2	8F	279D2	279B
LAND USE	F, OL, AG, F, OW, F, AG, F, AG																				

THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER
SOOK AT WATERBAR DISCHARGE
PERMANENT TRENCH PLUG

ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

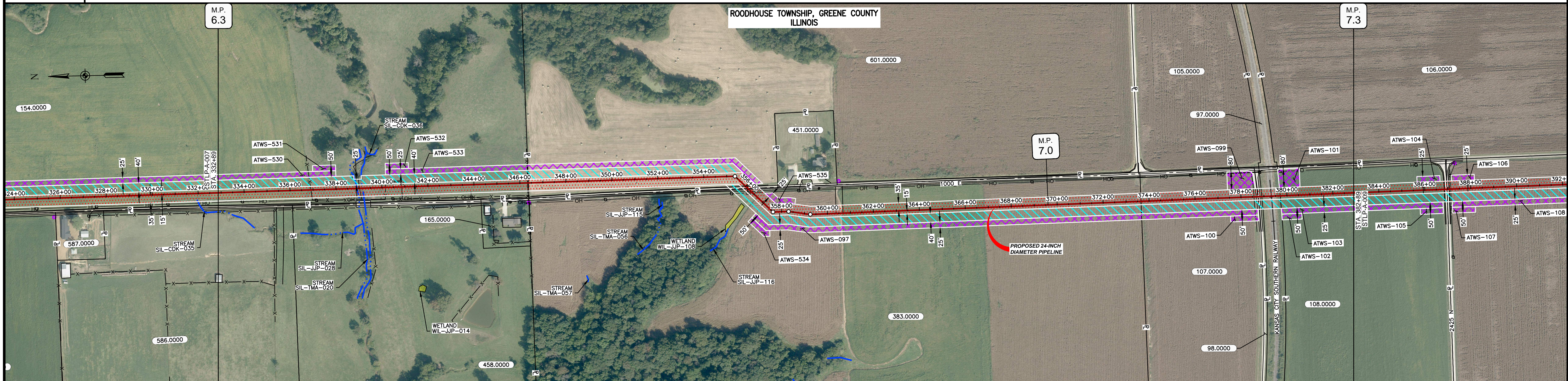
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



- NOTES:
- THE IMAGERY SHOWN WAS PROVIDED BY AERIAL DATA SERVICES, 2016. ADDITIONAL IMAGERY SUPPLEMENTED FROM USFWS-NWI AND USGS.
 - EXISTING FEATURES SHOWN WERE SURVEYED BY MOTT MACDONALD AND DIGITIZED FROM IMAGERY. ALL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
 - PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED ON GIS TAX MAP DATA.
 - ROAD CENTERLINES SHOWN ARE FROM PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN SURVEYED.

MATERIAL			REFERENCE DRAWINGS			REVISIONS				APPROVALS			PREPARED FOR		SPIRE STL PIPELINE PROJECT		
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN: 1" = 200'	MOTT MACDONALD	PROPOSED 24-INCH DIAMETER PIPELINE SCOTT AND GREENE COUNTIES, ILLINOIS STA. 182+89 TO STA. 232+89		
1	5000'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	1/2017	GH	EB	DGG	DP	03/2017	SCALE PROFILE H: 1" = 200'				
					2	AMENDMENT TO FERC	04/2017	DP	SG	DGG	RJP	03/2017	SCALE PROFILE V: 1" = 200'				
											ENG. APPROVAL	DATE	CLIENT APPROVAL				
											D.G.G.	04/2017	DATE				
											P.M. APPROVAL	DATE	DATE				
											J.E.W.	04/2017	DATE				
													SCALE		DRAWING NO.	REVISION	
													1" = 200'	STLP-A-005		2	

OWNERSHIP / FOOTAGE	332+89	154.0000 1347'	342+58	801.0000 979'	358+15	383.0000 1750'	373+65	107.0000 508'	378+73	98.0000 18'	379+89	97.0000 80'	379+71	108.0000 318'	382+89
STATIONING	<p>338+41 EDGE OF STREAM SIL-TMA-020 338+42 CENTERLINE OF DITCH 338+43 EDGE OF STREAM SIL-TMA-020 340+41 FENCE 340+42 FENCE</p> <p>355+48 P.L. < 4537002.02 355+49 CENTERLINE OF DITCH 355+50 EDGE OF PAVEMENT 355+51 EDGE OF CULVERT 355+52 EDGE OF CULVERT 355+53 CENTERLINE OF 1000 E 355+54 EDGE OF PAVEMENT 355+55 EDGE OF PAVEMENT 355+56 OVERHEAD LINE 355+57 P.L. < 4537002.02 355+58 P.L. < 4537002.02 355+59 P.L. < 4537002.02 355+60 EDGE OF BIRT ROAD 355+61 EDGE OF BIRT ROAD</p> <p>373+46 PROPERTY LINE</p> <p>378+47 CENTERLINE OF DITCH 378+48 EDGE OF PAVEMENT 378+49 CENTERLINE OF UNKNOWN ROAD 378+50 EDGE OF PAVEMENT 378+51 CENTERLINE OF KANSAS CITY 378+52 PROPERTY LINE 378+53 PROPERTY LINE</p>														



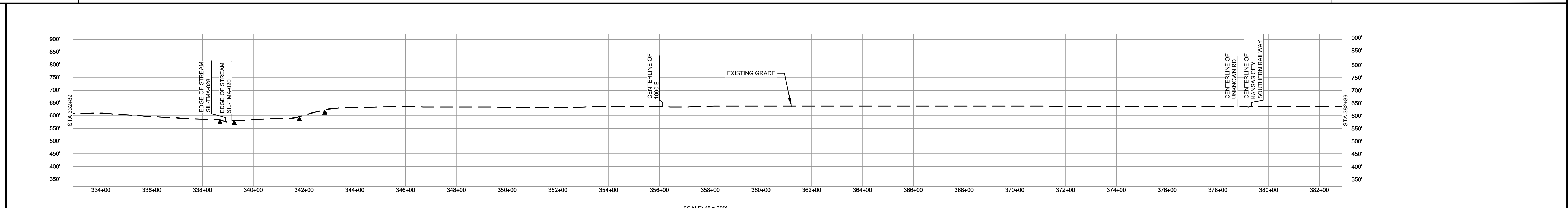
CLASS LOCATION/MAOP	CLASS 1 / 1440 PSIG														
MATERIAL & COATING	<p>332+89</p> <p>2285' (1)</p> <p>80' (2)</p> <p>2176' (1)</p> <p>145' (2)</p> <p>318' (1)</p> <p>382+89</p>														
DESIGN FACTOR	0.72, 0.6, 0.72, 0.6, 0.72														
CONSTRUCTION METHOD	OPEN CUT, OPEN CUT (FLUMED), OPEN CUT, BORE, OPEN CUT, BORE, OPEN CUT														
PIPELINE COVER	5', 10', 5'														
SOILS	8D2, 3451A, 8F2, 279B, 61A, 279C2, 61A, 68A														
LAND USE	AG, DW, AG, OL, D, AG, 61A, OL, D, OL, D, AG														

THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER
SOOK AT WATERBAR DISCHARGE
PERMANENT TRENCH PLUG

ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100

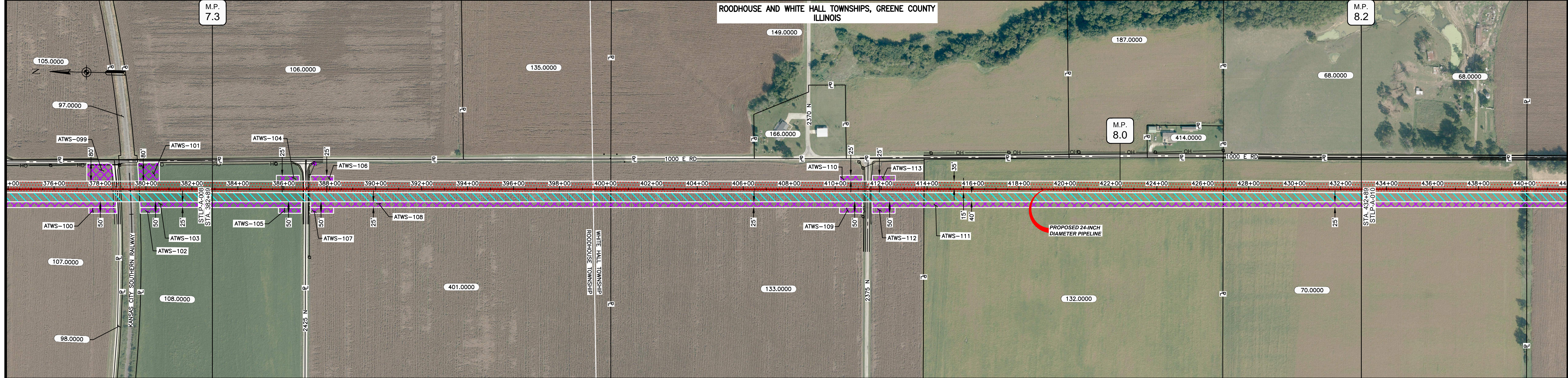


NOTES:

- THE IMAGERY SHOWN WAS PROVIDED BY AERIAL DATA SERVICES, 2016. ADDITIONAL IMAGERY SUPPLEMENTED FROM USFWS-NWI AND USGS.
- EXISTING FEATURES SHOWN WERE SURVEYED BY MOTT MACDONALD AND DIGITIZED FROM IMAGERY. ALL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
- PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED ON GIS TAX MAP DATA.
- ROAD CENTERLINES SHOWN ARE FROM PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN SURVEYED.

MATERIAL			REFERENCE DRAWINGS			REVISIONS				APPROVALS			PREPARED FOR		SPIRE STL PIPELINE PROJECT			
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN: SCALE PROFILE H: 1" = 200' SCALE PROFILE V: 1" = 200'	Spire STL Pipeline		ALIGNMENT SHEET PROPOSED 24-INCH DIAMETER PIPELINE GREENE COUNTY, ILLINOIS STA. 332+89 TO STA. 382+89		
1	4814'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	1/2017	GH	EB	DGG	DP	04/2017	CLIENT APPROVAL	PREPARED BY	MOTT MACDONALD			
2	186'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED			2	AMMENDMENT TO FERC	04/2017	DP	SG	DGG	SG	04/2017	DATE		SCALE	DRAWING NO.	REVISION	
											ENG. APPROVAL	DATE			1" = 200'	STLP-A-008	2	
											P.M. APPROVAL	DATE						
											JEW	04/2017						

OWNERSHIP / FOOTAGE	382+89	108.0000	408'	386+87	401.0000	1327'	400+24	133.0000	1365'	413+87	132.0000	1302'	428+89	70.0000	600'	432+89
STATIONING	<p>386+87 CENTERLINE OF DITCH 386+87 CENTERLINE OF 24" N 386+87 PROPERTY LINE 387+45 EDGE OF PAVEMENT 387+45 CENTERLINE OF DITCH 387+45 OVERHEAD LINE</p> <p>389+45 ROODHOUSE AND WHITE HALL MUNICIPALITIES BOUNDARY 400+24 PROPERTY LINE</p> <p>411+02 OVERHEAD LINE 411+02 CENTERLINE OF DITCH 411+02 EDGE OF PAVEMENT 411+02 PROPERTY LINE 411+02 CENTERLINE OF DITCH 413+87 PROPERTY LINE</p> <p>428+89 PROPERTY LINE</p>															



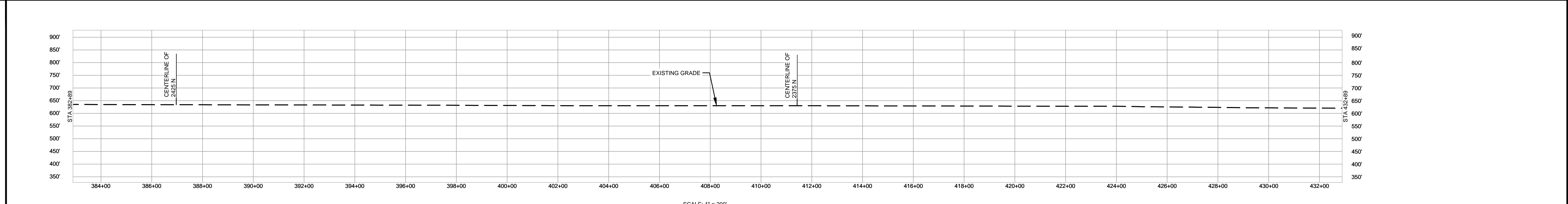
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG															
MATERIAL & COATING	382+89	386+42	387+42	2371'	411+03	411+83	432+89									
DESIGN FACTOR	0.72		0.6		0.72		0.6		0.72							
CONSTRUCTION METHOD	OPEN CUT		BORE		OPEN CUT		BORE		OPEN CUT							
PIPELINE COVER	5'															
SOILS	68A		47A		51A		47A		51A		47A		51A		675B	
LAND USE	AG		D		AG		D		AG							

THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER
SOOK AT WATERBAR DISCHARGE
PERMANENT TRENCH PLUG

ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100

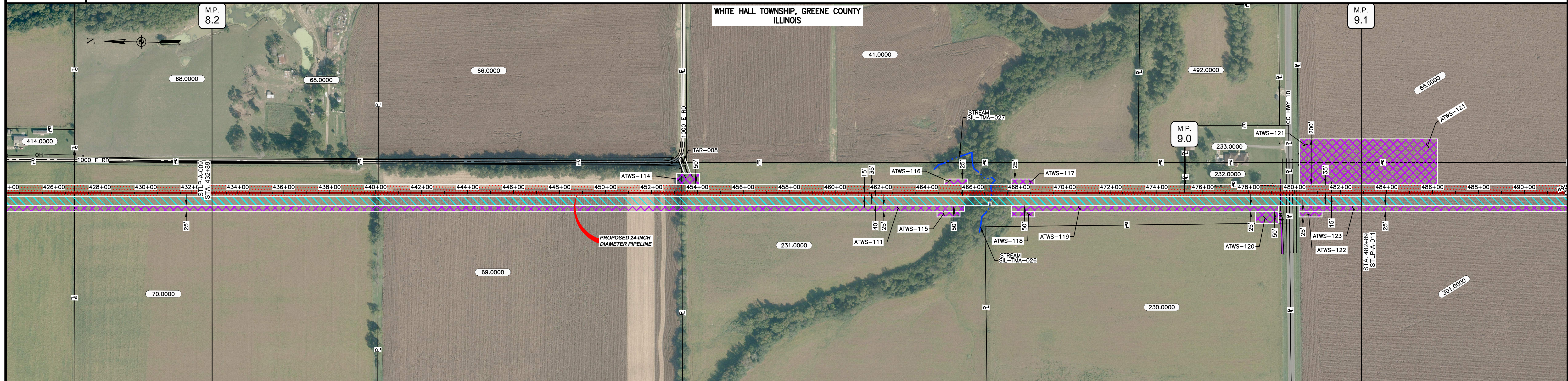
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



- NOTES:
1. THE IMAGERY SHOWN WAS PROVIDED BY AERIAL DATA SERVICES, 2016. ADDITIONAL IMAGERY SUPPLEMENTED FROM USFWS-NWI AND USGS.
 2. EXISTING FEATURES SHOWN WERE SURVEYED BY MOTT MACDONALD AND DIGITIZED FROM IMAGERY. ALL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
 3. PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED ON GIS TAX MAP DATA.
 4. ROAD CENTERLINES SHOWN ARE FROM PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN SURVEYED.

MATERIAL			REFERENCE DRAWINGS			REVISIONS				APPROVALS				PREPARED FOR		SPIRE STL PIPELINE PROJECT		
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN: 1" = 200'	PREPARED BY		ALIGNMENT SHEET		
1	4840'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	1/2017	GH	EB	DGG	DP	04/2017	SCALE PROFILE H: 1" = 200'	Spire STL Pipeline		PROPOSED 24-INCH DIAMETER PIPELINE		
2	160'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED			2	AMMENDMENT TO FERC	04/2017	DP	SG	DGG	SG	04/2017	SCALE PROFILE V: 1" = 200'	MOTT MACDONALD		GREENE COUNTY, ILLINOIS		
													PREPARED BY		STA. 382+89 TO STA. 432+89			
													DATE		SCALE	DRAWING NO.	REVISION	
													1" = 200'		STLP-A-009	2		

OWNERSHIP / FOOTAGE	432+89	70.0000 722'	440+11	68.0000 1322'	453+33	231.0000 2644'	479+77	301.0000 322'	482+89
STATIONING	440+11 PROPERTY LINE 453+33 PROPERTY LINE 453+48 EDGE OF DIRT ROAD 453+48 EDGE OF DIRT ROAD 466+42 CENTERLINE OF STREAM STA. TMA-026 479+77 OVERHEAD LINE 479+77 FIBER OPTIC LINE 479+77 CENTERLINE OF HIGHWAY 479+77 CENTERLINE OF HIGHWAY 479+77 PROPERTY LINE 479+77 PROPERTY LINE 482+89 CENTERLINE OF DITCH								

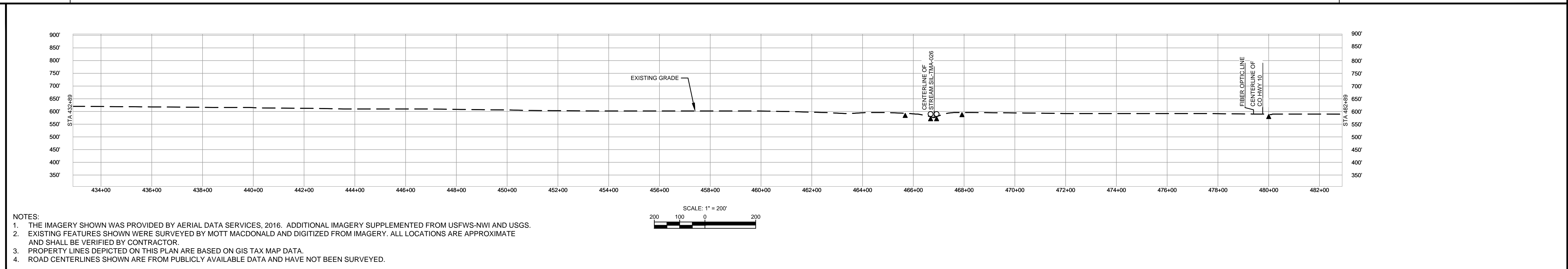


CLASS LOCATION/MAOP	CLASS I / 1440 PSIG																		
MATERIAL & COATING	432+89									479+37	480+17	482+89							
DESIGN FACTOR	0.72								0.6	0.72									
CONSTRUCTION METHOD	OPEN CUT								OPEN CUT (FLUMED)	OPEN CUT	BORE	OPEN CUT							
PIPELINE COVER	5'																		
SOILS	675B	51A	675B	279B	675B	279C2	675B	279C2	279D2	279C2	279D2	279B	17A	279C2	51A	47A	51A		
LAND USE		AG		F		AG			F					AG		OL	D	OL	AG

THE LOCATION OF TRENCH PLUGS AND WATERBARS ARE INTENDED TO BE USED AS A GUIDELINE ONLY. EXACT LOCATION TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CHIEF INSPECTOR.

PERMANENT WATERBAR WITH COMPOST FILTER
SOCK AT WATERBAR DISCHARGE
PERMANENT TRENCH PLUG

ILLINOIS		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
5-15%	300	300
15-30%	200	200
>30%	100	100
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



NOTES:
 1. THE IMAGERY SHOWN WAS PROVIDED BY AERIAL DATA SERVICES, 2016. ADDITIONAL IMAGERY SUPPLEMENTED FROM USFWS-NWI AND USGS.
 2. EXISTING FEATURES SHOWN WERE SURVEYED BY MOTT MACDONALD AND DIGITIZED FROM IMAGERY. ALL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
 3. PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED ON GIS TAX MAP DATA.
 4. ROAD CENTERLINES SHOWN ARE FROM PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN SURVEYED.

MATERIAL			REFERENCE DRAWINGS			REVISIONS				APPROVALS			PREPARED FOR		SPIRE STL PIPELINE PROJECT		
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PLAN: 1" = 200'	Spire STL Pipeline	ALIGNMENT SHEET PROPOSED 24-INCH DIAMETER PIPELINE GREENE COUNTY, ILLINOIS STA. 432+89 TO STA. 482+89		
1	4920'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FER	1/2017	GH	EB	DGG	DP	04/2017	SCALE PROFILE H: 1" = 200'				
2	80'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED			2	AMENDMENT TO FER	04/2017	DP	SG	DGG	SG	04/2017	SCALE PROFILE V: 1" = 200'	CLIENT APPROVAL	DATE		
											ENG. APPROVAL	DATE					
											DGG	04/2017					
											P.M. APPROVAL	DATE					
											JEV	04/2017					