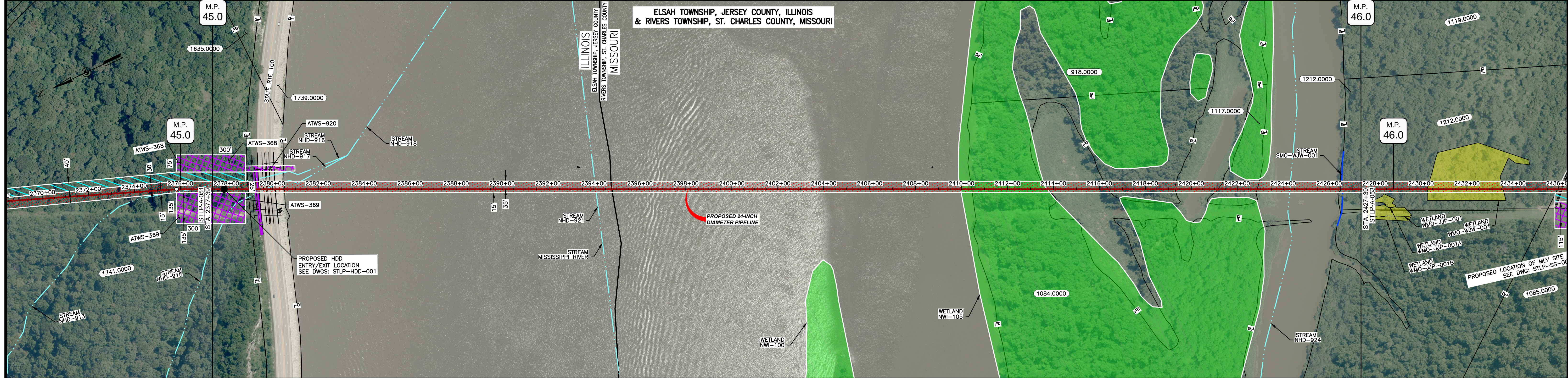


OWNERSHIP / FOOTAGE	2377+39	1741.0000	155'	2378+04	1739.0000	159'	2380+53	MISSISSIPPI RIVER	2991'	2410+44	1084.0000	331'	2413+75	MISSISSIPPI RIVER	264'	2416+39	1084.0000	291'	2418+30	XXX	185'	2421+15	1117.0000	172'	2422+87	XXX	364'	2426+51	1212.0000	88'	2427+39	
STATIONING	<p>2378+65 PROPERTY LINE 2378+25 TELEPHONE LINE 2378+26 CENTERLINE OF FITCH 2378+35 TELEPHONE LINE 2378+38 TELEPHONE LINE 2378+42 CENTERLINE OF AMEREN PIPELINE 2378+43 EDGE OF PAVEMENT 2378+42 CENTERLINE OF STATE RTE 100 W 2378+43 EDGE OF CONCRETE 2378+40 EDGE OF STATE RTE 100 E 2380+13 EDGE OF PAVEMENT 2380+14 CENTERLINE OF STATE RTE 100 2380+43 PROPERTY LINE</p> <p>2384+08 CENTERLINE OF STREAM NHD-921 2384+08 ENTER WETLAND NWI-105 2384+08 PROPERTY LINE 2384+78 ELSAH AND RIVERS MUNICIPALITIES BOUNDARY (MISSISSIPPI RIVER) 2384+78 ELSAH AND RIVERS MUNICIPALITIES BOUNDARY (ILLINOIS) 2384+78 ILLINOIS AND MISSOURI STATE LINE 2384+78 ST. CHARLES AND JERSEY COUNTIES LINE</p> <p>2409+46 ENTER WETLAND NWI-105 2410+45 PROPERTY LINE 2413+73 EXIT WETLAND NWI-105 2413+75 PROPERTY LINE 2416+39 PROPERTY LINE 2418+30 PROPERTY LINE 2421+15 PROPERTY LINE 2422+87 PROPERTY LINE 2426+51 CENTERLINE OF STREAM NHD-924 2427+39 PROPERTY LINE 2427+39 CENTERLINE OF STREAM SMO-WJM-001</p>																															



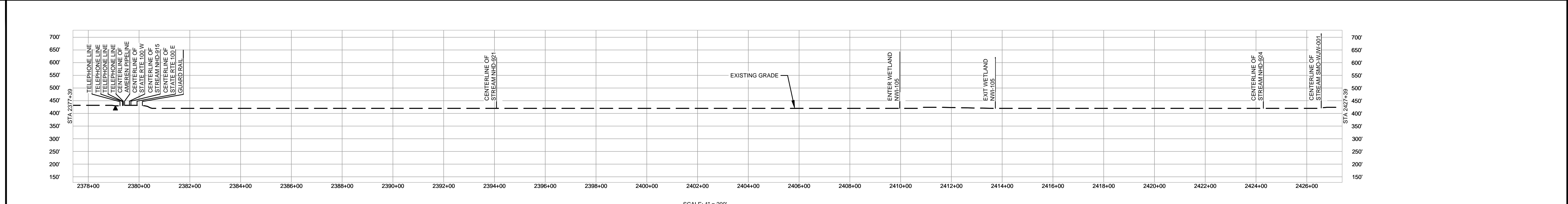
CLASS LOCATION/MAOP	CLASS 1 / 1440 PSIG																																															
MATERIAL & COATING	5000' (2)																																															
DESIGN FACTOR	0.72																0.5																															
CONSTRUCTION METHOD	OPEN CUT																HDD																															
PIPELINE COVER	7'																																															
SOILS	3475A								W								9901								66066								99001								66066							
LAND USE	F				D				OL				W								OW								W								OW								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

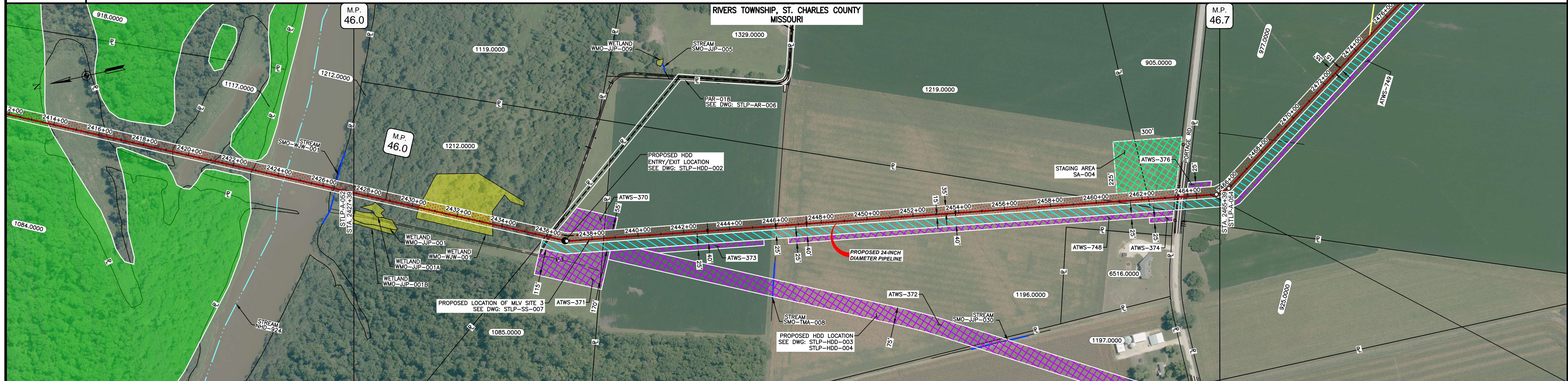
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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 - 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.

TAG		QUANTITY	DESCRIPTION	REFERENCE DRAWINGS		REVISIONS				APPROVALS				SCALE PLAN: 1" = 200'		SCALE PROFILE H: 1" = 200'		SCALE PROFILE V: 1" = 200'		PREPARED FOR		SPIRE STL PIPELINE PROJECT	
2		5000'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	MOTT MACDONALD		MOTT MACDONALD		PREPARED BY		ALIGNMENT SHEET			
				STLP-HDD-001	HDD PROFILE OVERVIEW - MISSISSIPPI RIVER MAINLINE	1	ISSUE FOR FERC	01/2017	GH	EB	DGG	GG	03/2017	MOTT MACDONALD		MOTT MACDONALD		MOTT MACDONALD		PROPOSED 24-INCH DIAMETER PIPELINE			
						2	AMENDMENT TO FERC	04/2017	KAM	RJP	DGG	RJP	03/2017	MOTT MACDONALD		MOTT MACDONALD		MOTT MACDONALD		JERSEY COUNTY, ILLINOIS & ST. CHARLES COUNTY, MISSOURI			
														MOTT MACDONALD		MOTT MACDONALD		MOTT MACDONALD		STA. 2377+39 TO STA. 2427+39			
														MOTT MACDONALD		MOTT MACDONALD		MOTT MACDONALD		SCALE			
														MOTT MACDONALD		MOTT MACDONALD		MOTT MACDONALD		DRAWING NO.			
														MOTT MACDONALD		MOTT MACDONALD		MOTT MACDONALD		REVISION			
														MOTT MACDONALD		MOTT MACDONALD		MOTT MACDONALD		2			

OWNERSHIP / FOOTAGE	2427+39	1212.0000 85'	1085.0000 256'	1198.0000 223'	1219.0000 147'	905.0000 115'	PORTAGE ROAD 51'	977.0000 145'	2465+39
STATIONING	2430+28 ENTER WETLAND WMO-WJW-001 2435+48 EXIT WETLAND WMO-WJW-001 2435+48 PROPERTY LINE 2438+11 CENTERLINE OF UNKNOWN ROAD 2438+15 EDGE OF GRAVEL 2438+20 E.C. CURB/CUTLINE 2438+40 PROPERTY LINE 2464+08 CENTERLINE OF FITCH 2465+02 PROPERTY LINE 2465+04 PROPERTY LINE 2465+05 OVERHEAD LINE 2465+05 OVERHEAD LINE 2465+05 EDGE OF PAVEMENT 2465+05 EDGE OF PAVEMENT 2465+05 CENTERLINE OF FITCH 2465+05 PROPERTY LINE 2465+24 E.C. CURB/CUTLINE								



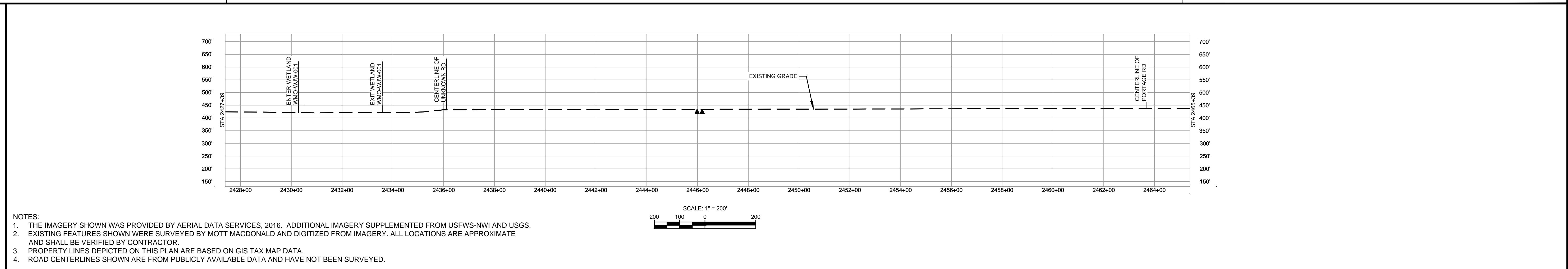
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG									
MATERIAL & COATING	2427+39	2439+43	2439+46	2439+46	2465+32	2464+12	2465+39			
DESIGN FACTOR	0.5		0.72	0.5	0.72		0.6	0.72		
CONSTRUCTION METHOD	HDD		OPEN CUT		OPEN CUT (FLUMED)		OPEN CUT		BORE	OPEN CUT
PIPELINE COVER	7'									
SOILS	66066		66100	66066		66100				
LAND USE	F	W	F	AG		AG		D	AG	

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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:

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TAG	QUANTITY	DESCRIPTION	DWG. NO.	REFERENCE DRAWINGS	TITLE
1	2716'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED	STLP-AR-006	ACCESS ROAD SITE PLAN - PAR-018	
2	1024'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED	STLP-HDD-002	HDD PROFILE OVERVIEW - MISSISSIPPI RIVER MAINLINE	
REF	60'	SEE REFERENCED DETAIL DRAWING	STLP-HDD-003	HDD PROFILE OVERVIEW - MISSISSIPPI RIVER MAINLINE	
			STLP-HDD-004	HDD PROFILE OVERVIEW - MISSISSIPPI RIVER MAINLINE	
			STLP-SS-007	24" PIPELINE MLV SITE 3	

MATERIAL				REFERENCE DRAWINGS				REVISIONS				APPROVALS			
								NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE
								1	ISSUE FOR FERC	01/2017	GH	EB	DGG	DP	03/2017
								2	AMENDMENT TO FERC	04/2017	KAM	RJP	DGG	CHECKED BY	DATE
														RJP	03/2017
														ENG. APPROVAL	DATE
														DGG	04/2017
														P.M. APPROVAL	DATE
														JEV	04/2017

SCALE PLAN: 1" = 200'
SCALE PROFILE H: 1" = 200'
SCALE PROFILE V: 1" = 200'

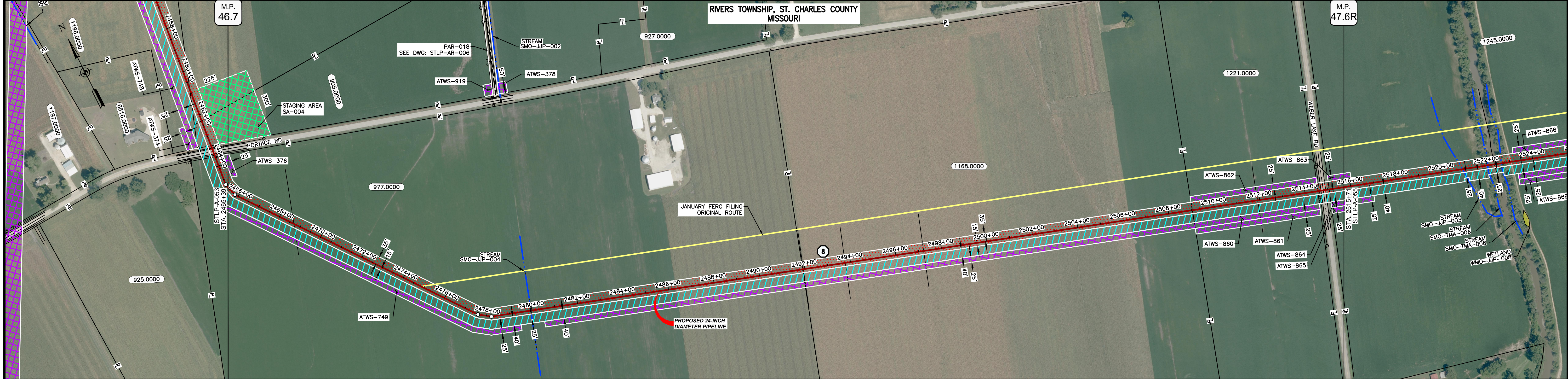
PREPARED FOR: **Spire STL Pipeline**

PREPARED BY: **M M MOTT MACDONALD**

CLIENT APPROVAL: _____ DATE: _____

SCALE: 1" = 200' DRAWING NO.: STLP-A-053 REVISION: 2

OWNERSHIP / FOOTAGE	2465+39	977.0000	2651'	2481+90	1188.0000	1714'	2509+04	1221.0000	551'	2514+55	WEBER LAKE ROAD	1245.0000	50'	2515+05	66'	2515+71
STATIONING	<p>2465+70 CENTERLINE OF FITCH</p> <p>2474+68 BEGIN LINE CHANGE</p> <p>2477+51 E.L. & 177+52 S.L.T.</p> <p>2478+11 E.L. & 177+52 S.L.T.</p> <p>2479+45 CENTERLINE OF STREAM SMO-JIP-004</p> <p>2479+45 CENTERLINE OF FITCH</p> <p>2483+78 CENTERLINE OF FITCH</p> <p>2487+22 CENTERLINE OF FITCH</p> <p>2493+44 PROPERTY LINE</p> <p>2509+04 PROPERTY LINE</p> <p>2511+91 CENTERLINE OF FITCH</p> <p>2514+55 PROPERTY LINE</p> <p>2514+55 CENTERLINE OF FITCH</p> <p>2514+55 PROPERTY LINE</p> <p>2514+55 CENTERLINE OF WEBER LAKE ROAD</p> <p>2514+55 EDGE OF PAVEMENT</p> <p>2515+71 PROPERTY LINE</p>															



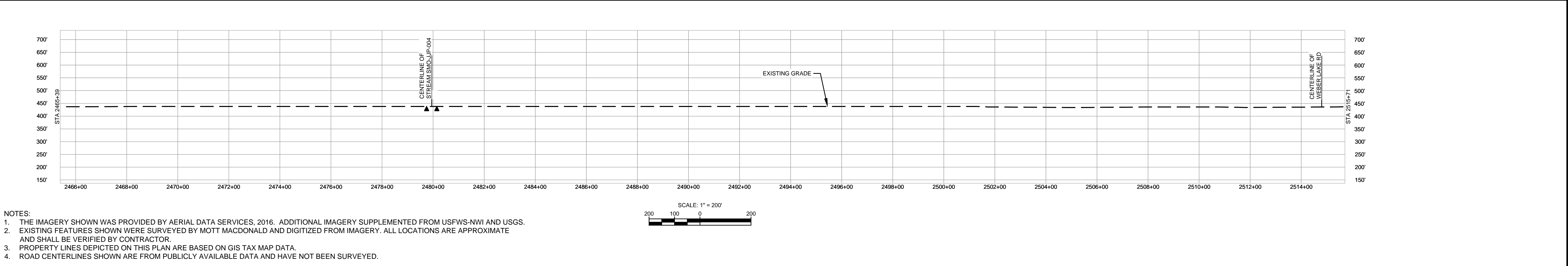
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG																																																	
MATERIAL & COATING	<table border="1"> <tr> <td>2465+39</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> <td>2485+00</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>																2465+39	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00																	
2465+39	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00	2485+00																																		
DESIGN FACTOR	0.72																																																	
CONSTRUCTION METHOD	OPEN CUT				OPEN CUT (FLUMED)				OPEN CUT				BORE																																					
PIPELINE COVER	7'																																																	
SOILS	66100				66066				66100				66066																																					
LAND USE	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
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

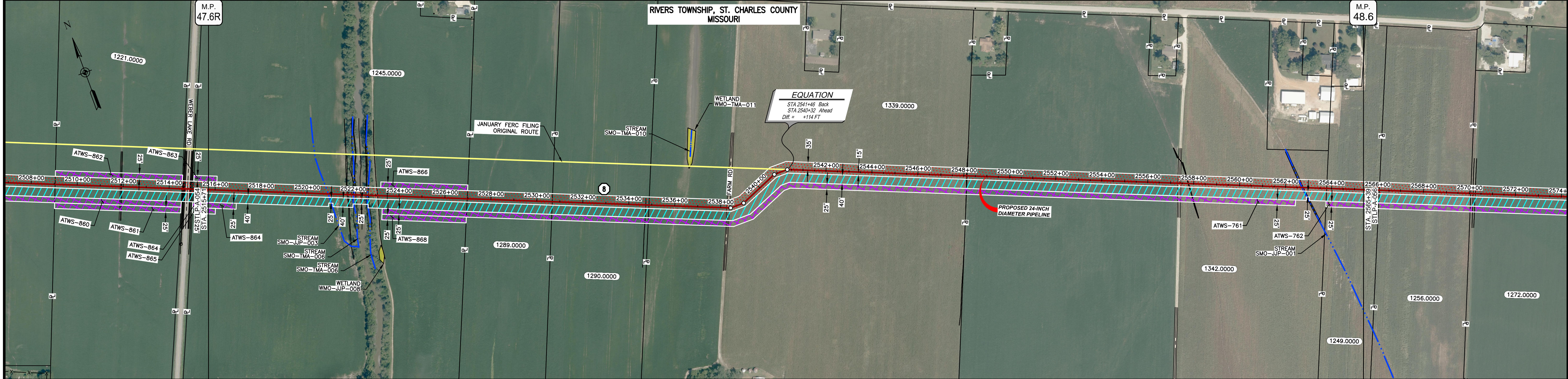
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



NOTES:
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 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			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	4952'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED	STLP-AR-006	ACCESS ROAD SITE PLAN-PAR-018	1	ISSUE FOR FERC	01/2017	GH	EB	DGG	DP	03/2017	SCALE PROFILE H: 1" = 200'	Spire STL Pipeline		PROPOSED 24-INCH DIAMETER PIPELINE		
2	80'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED			2	AMENDMENT OT FERC	04/2017	KAM	RJP	DGG	CHECKED BY	DATE	SCALE PROFILE V: 1" = 200'	PREPARED BY		ST. CHARLES COUNTY, MISSOURI		
											ENG. APPROVAL	DATE	CLIENT APPROVAL	M M		STA. 2465+39 TO STA. 2515+71		
											P.M. APPROVAL	DATE	DATE	MOTT MACDONALD		SCALE	DRAWING NO.	REVISION
											JEW	04/2017	DATE			1" = 200'	STLP-A-054	2

OWNERSHIP / FOOTAGE	1245.0000 1126'	1289.0000 370'	1290.0000 420'	1339.0000 1441'	1342.0000 1565'	1249.0000 160'
STATIONING	2515+71	2528+97	2530+67	2534+87	2548+14	2565+39



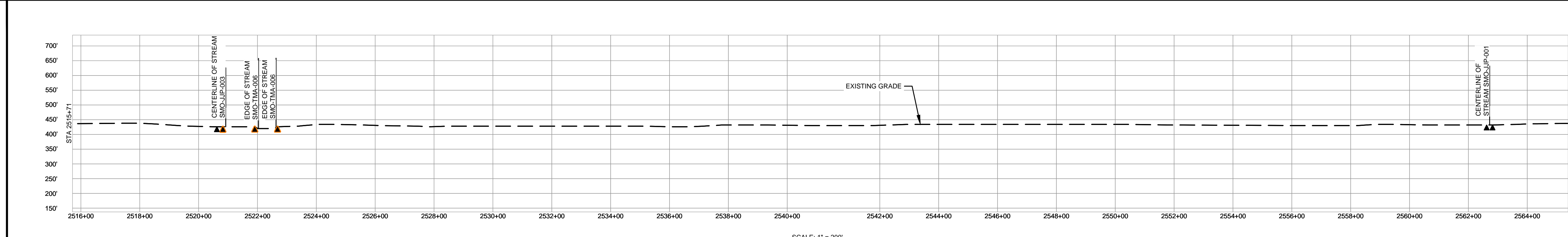
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG											
MATERIAL & COATING	5082' (1)											
DESIGN FACTOR	0.72											
CONSTRUCTION METHOD	OPEN CUT					OPEN CUT (FLUMED)						
PIPELINE COVER	7'											
SOILS	66066	64016	64024	64016	64024	64016	64024	66066	64024	66066	64016	66066
LAND USE	AG			F	OW	F	AG			OL	AG	

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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

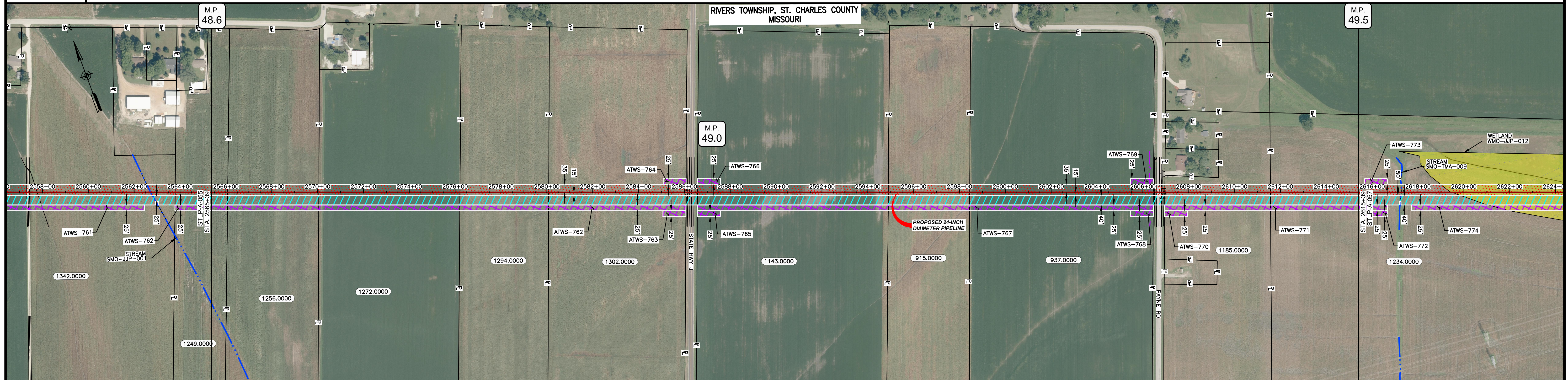
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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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 PROPOSED 24-INCH DIAMETER PIPELINE ST. CHARLES COUNTY, MISSOURI STA. 2515+71 TO STA. 2565+39			
1	5082'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	01/2017	GH	EB	DGG	DP	03/2017	SCALE PROFILE H: 1" = 200'				
					2	AMENDMENT TO FERC	04/2017	KAM	RJP	DGG	RJP	03/2017	SCALE PROFILE V: 1" = 200'				
											CHECKED BY	DATE	CLIENT APPROVAL	PREPARED BY	MOTT MACDONALD		
											ENG. APPROVAL	DATE	DATE				
											P.M. APPROVAL	DATE	DATE				
											JEV	04/2017			SCALE	DRAWING NO.	REVISION
													1" = 200'	STLP-A-055		2	

OWNERSHIP / FOOTAGE	1248.0000 69'	1255.0000 398'	1272.0000 615'	1284.0000 387'	1302.0000 599'	STATE HWY J 50'	1143.0000 833'	915.0000 355'	937.0000 801'	PAYNE RD 50'	1185.0000 461'	1234.0000 382'
STATIONING	2565+39	2566+08	2570+00	2574+21	2580+08	2586+07	2594+00	2598+45	2606+46	2608+46	2611+47	2615+39



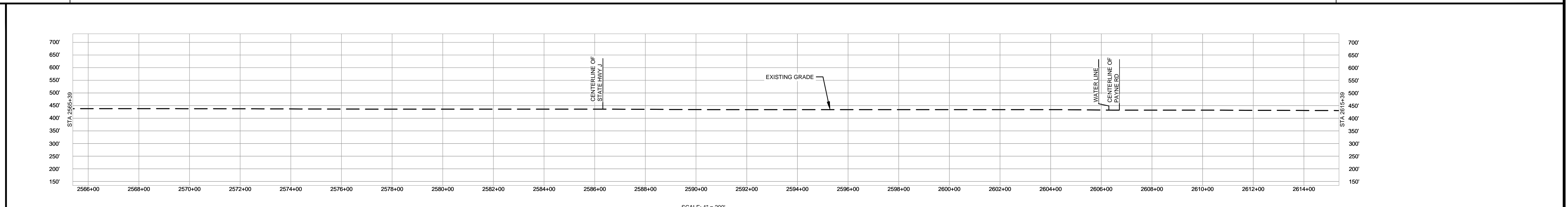
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG											
MATERIAL & COATING	2565+39	2566+08	2570+00	2574+21	2580+08	2586+07	2594+00	2598+45	2606+46	2608+46	2611+47	2615+39
DESIGN FACTOR	0.72			0.6			0.72			0.6		0.72
CONSTRUCTION METHOD	OPEN CUT			BORE			OPEN CUT			BORE		OPEN CUT
PIPELINE COVER	7'											
SOILS	66066	64024	66066			66100	64016		66100	64016		64016
LAND USE	AG			OL D OL			AG			OL D OL		AG

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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

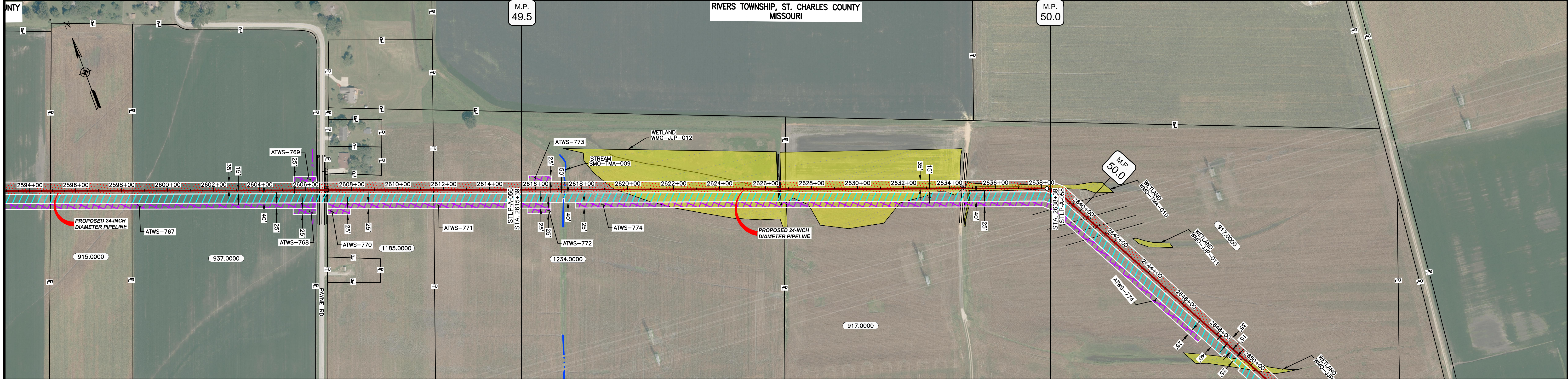
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10-15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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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'	ALIGNMENT SHEET		
1	4840'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	01/2017	GH	EB	DGG	DP	03/2017	SCALE PROFILE H: 1" = 200'	PROPOSED 24-INCH DIAMETER PIPELINE		
2	160'	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'	ST. CHARLES COUNTY, MISSOURI		
											GH	03/2017	CLIENT APPROVAL	STA. 2565+39 TO STA. 2615+39		
											ENG. APPROVAL	DATE	PREPARED BY	SCALE		
											DGG	04/2017	M	DRAWING NO.		
											P.M. APPROVAL	DATE	M	REVISION		
											JEV	04/2017	MOTT MACDONALD	1" = 200' STLPA-056 2		

OWNERSHIP / FOOTAGE		2615+39	1234.0000	1146'	2628+85	917.0000	1154'	2638+39
STATIONING								



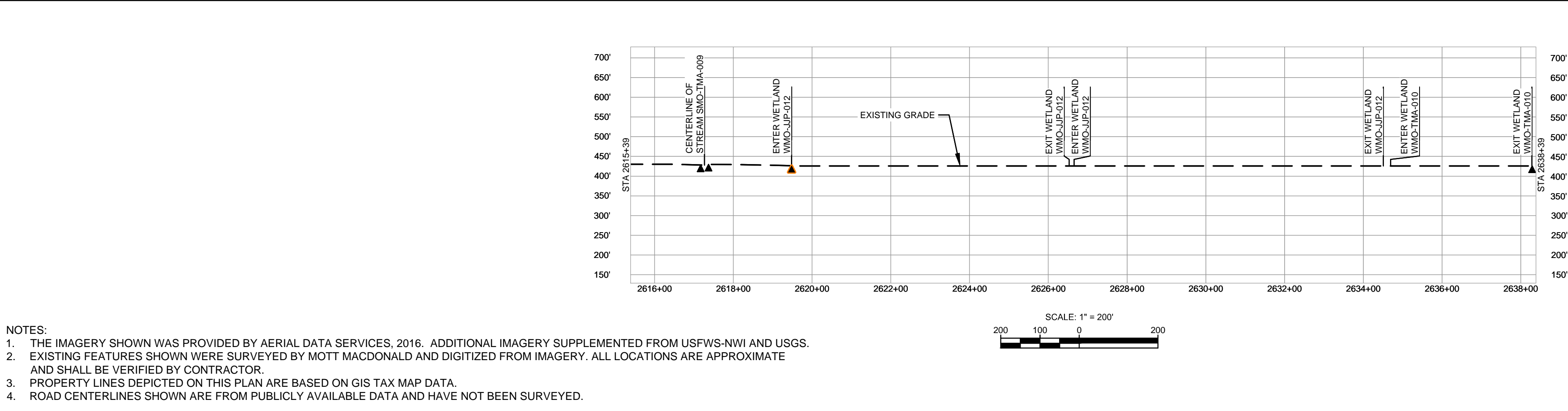
CLASS LOCATION/MAOP	CLASS 1 / 1440 PSIG	
MATERIAL & COATING	2300'	
DESIGN FACTOR	0.72	
CONSTRUCTION METHOD	OPEN CUT	OPEN CUT (FLUMED)
PIPELINE COVER	7'	
SOILS	64016	66100
LAND USE	AG	W

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.
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 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:	SCALE PROFILE H:	SCALE PROFILE V:	SCALE	DRAWING NO.	REVISION	
1	2300'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	01/2017	GH	EB	DGG	DP	03/2017	1" = 200'	11" = 200'	11" = 200'	1" = 200'	STLP-A-057	2	
					2	AMENDMENT TO FERC	04/2017	KAM	RJP	DGG	GH	03/2017							

PREPARED BY: **M M**
MOTT MACDONALD

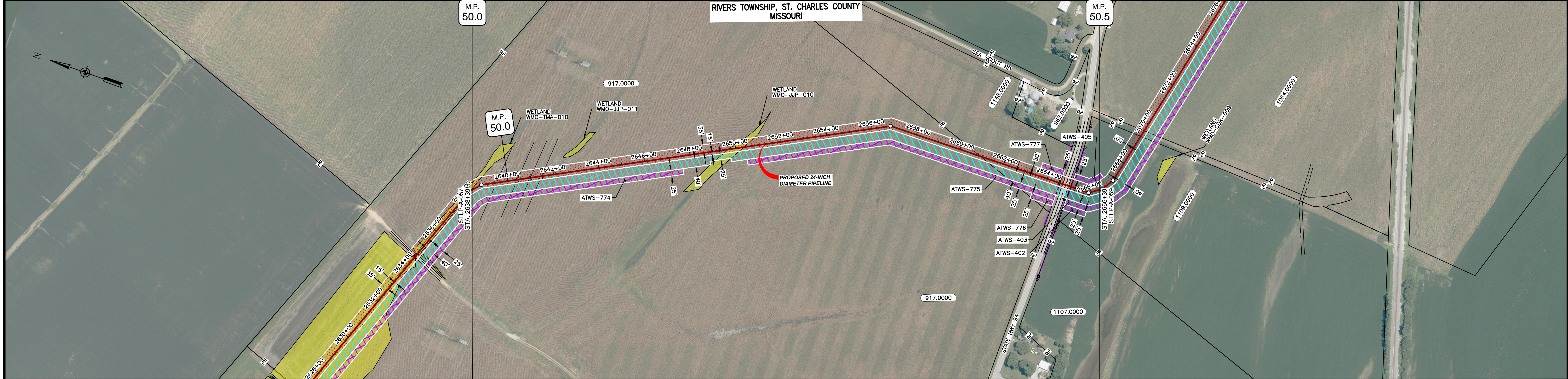
CLIENT APPROVAL: _____ DATE: _____

SCALE: 1" = 200'

DRAWING NO.: STLP-A-057

REVISION: 2

OWNERSHIP / FOOTAGE		2638+39	817.0000	2254'	2684+83	1148.0000	366'	2684+83	STATE HWY 94	50'	2685+09	1108.0000	130'	2686+39
STATIONING														



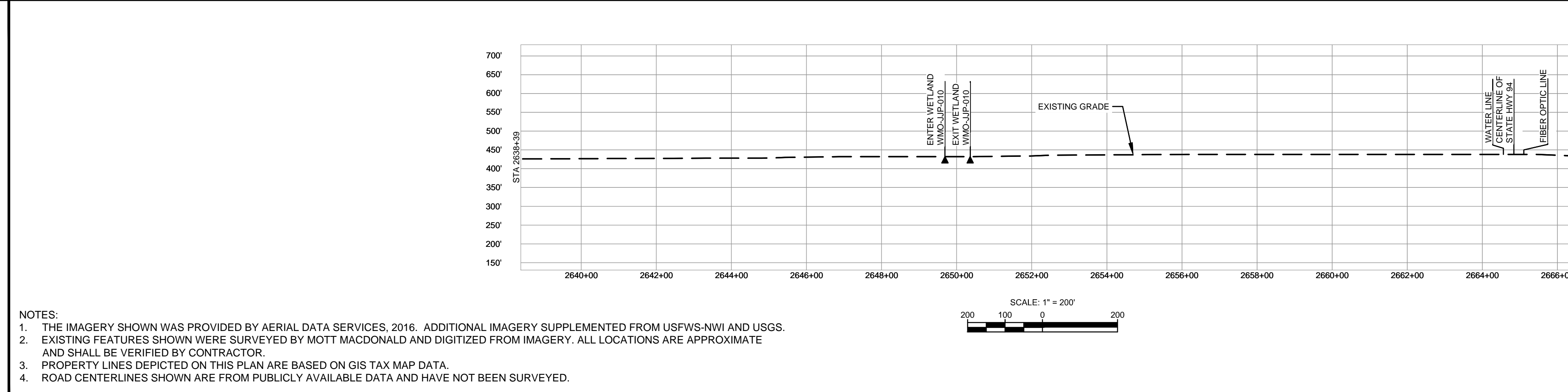
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG																																										
MATERIAL & COATING	<table border="1"> <tr> <td>2638+39</td> <td>2640+00</td> <td>2642+00</td> <td>2644+00</td> <td>2646+00</td> <td>2648+00</td> <td>2650+00</td> <td>2652+00</td> <td>2654+00</td> <td>2656+00</td> <td>2658+00</td> <td>2660+00</td> <td>2662+00</td> <td>2664+00</td> <td>2666+39</td> </tr> <tr> <td colspan="10">1</td> <td colspan="2">2</td> <td colspan="2">1</td> </tr> </table>														2638+39	2640+00	2642+00	2644+00	2646+00	2648+00	2650+00	2652+00	2654+00	2656+00	2658+00	2660+00	2662+00	2664+00	2666+39	1										2		1	
2638+39	2640+00	2642+00	2644+00	2646+00	2648+00	2650+00	2652+00	2654+00	2656+00	2658+00	2660+00	2662+00	2664+00	2666+39																													
1										2		1																															
DESIGN FACTOR	0.72																																										
CONSTRUCTION METHOD	OPEN CUT																																										
PIPELINE COVER	7'																																										
SOILS	66066, 66100, 66066, 64016, 66100, 66066, 66100, 64016, 64024, 66019																																										
LAND USE	AG, D, AG, W, AG, D, AG																																										

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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

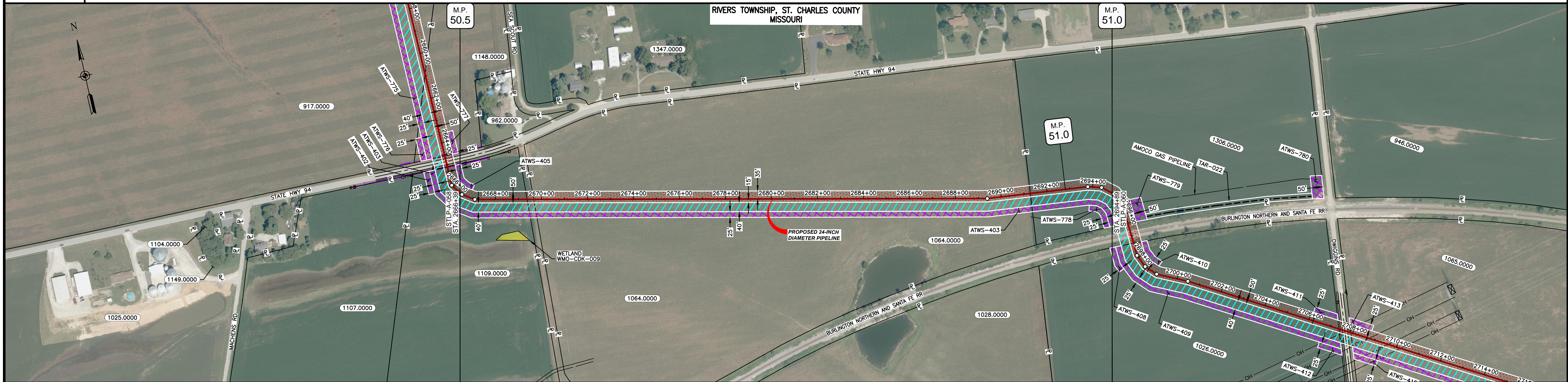


NOTES:

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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'	
1	2720'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED			1	ISSUE FOR FERC	01/2017	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'	
											CLIENT APPROVAL	PREPARED BY		
											DATE			
											DATE			
											DATE	SCALE	DRAWING NO.	REVISION
											04/2017	1" = 200'	STLP-A-058	2

OWNERSHIP / FOOTAGE	2666+39	1109.0000 299'	STATE HWY 94 2684+88	28'	2691+86	1064.0000 2161'	1306.0000 362'	2691+27	2694+89
STATIONING									



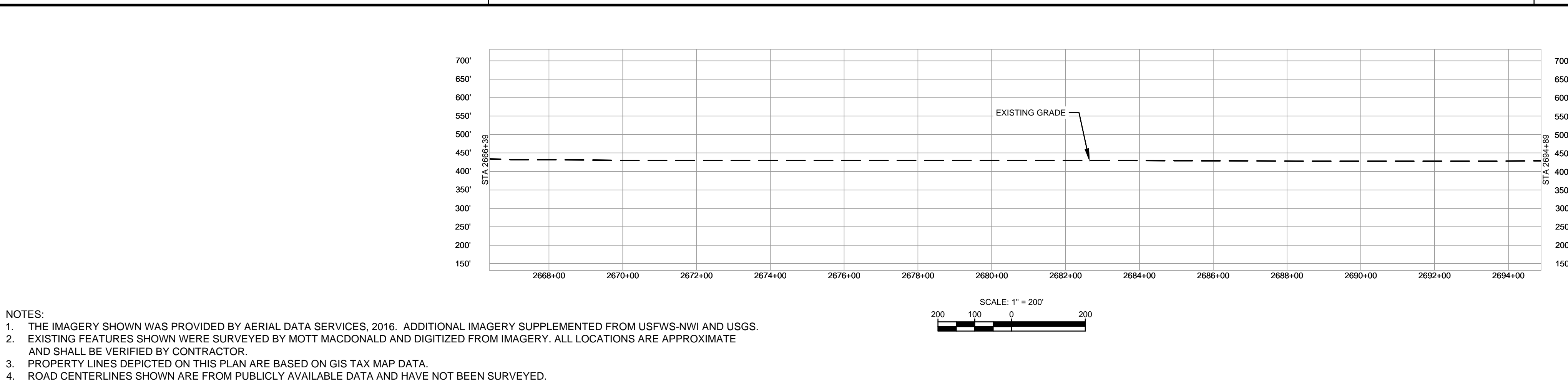
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG
MATERIAL & COATING	2850' (1)
DESIGN FACTOR	0.72
CONSTRUCTION METHOD	OPEN CUT
PIPELINE COVER	7'
SOILS	66019
LAND USE	AG

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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

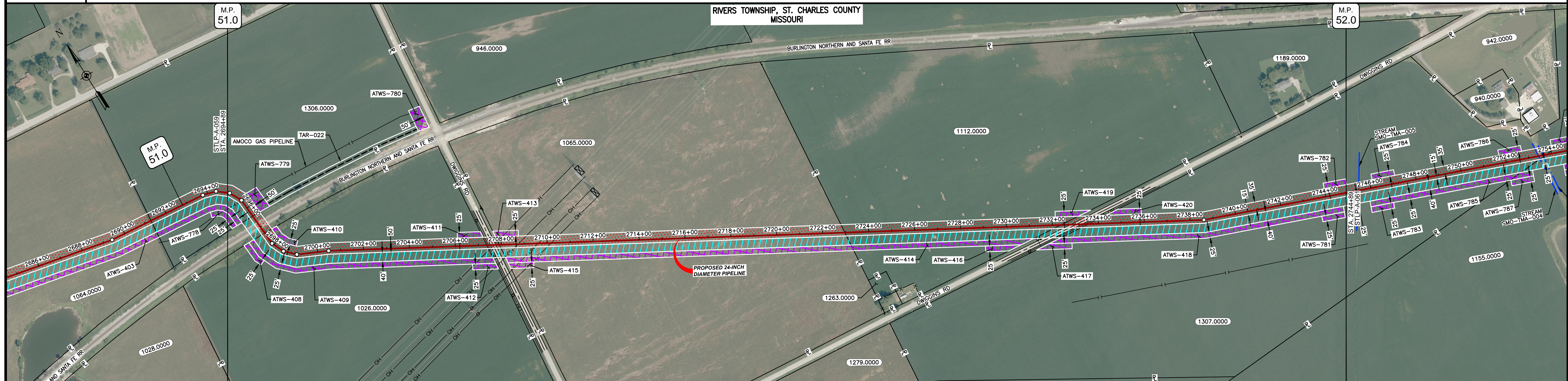
MISSOURI		
SLOPE	SLOPE BREAKER SPACING (FT)	TRENCH PLUG SPACING (FT)
<5%	125	---
5-10%	100	300
10 - 15%	75	300
15-20%	75	200
20-30%	50	200
30-35%	50	100
>35%	25	100



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MATERIAL		REFERENCE DRAWINGS		REVISIONS				APPROVALS		SCALE PLAN: 1" = 200'	PREPARED FOR	SPIRE STL PIPELINE PROJECT								
TAG	QUANTITY	DESCRIPTION	DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	DRAWN BY	DATE	SCALE PROFILE H: 1" = 200'	SCALE PROFILE V: 1" = 200'	MOTT MACDONALD	PREPARED BY	MOTT MACDONALD	SCALE	DRAWING NO.	REVISION
1	2850'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED	STLP-RR-002	SITE-SPECIFIC RAIL ROAD CROSSING DETAIL	1	ISSUE FOR FERC	01/2017	GH	EB	DGG	DP	03/2017								

OWNERSHIP / FOOTAGE	1306.0000 RAILROAD 1026.0000 1065.0000 1112.0000 1307.0000
STATIONING	2694+89 154' 2694+43 90' 2697+33 1004' 2707+37 55' 2707+92 1504' 2772+96 941' 2782+97 121' 2783+98 1131' 2744+89



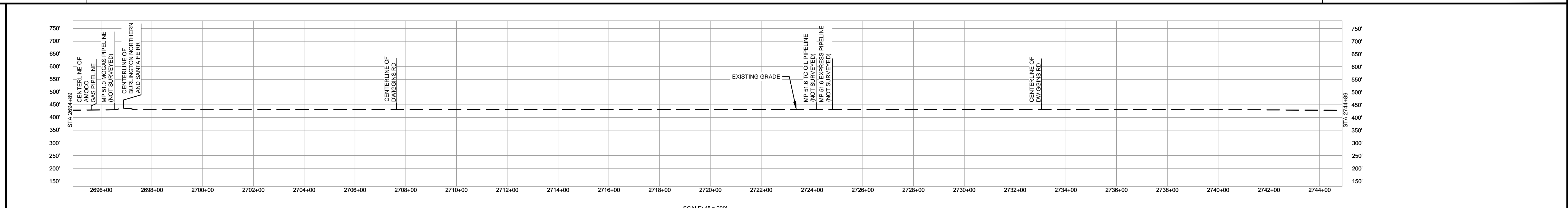
CLASS LOCATION/MAOP	CLASS I / 1440 PSIG									
MATERIAL & COATING	2694+89	2696+59	2697+33	2707+29	2708+08	2724+00	2724+63	2734+43	2744+89	
DESIGN FACTOR	0.72	0.6	0.72	0.6	0.72	0.6	0.72			
CONSTRUCTION METHOD	OPEN CUT	BORE	OPEN CUT	BORE	OPEN CUT	BORE	OPEN CUT			
PIPELINE COVER	7'	10'				7'				
SOILS	66019									
LAND USE	AG	F	D	OL	F	AG	D	OL	D	AG

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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



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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:	SCALE PROFILE V:	SCALE	DRAWING NO.	REVISION
1	4760'	PIPE, 24.000" OD X 0.375" WT, API-5L, X70, DSAW, FBE COATED	STLP-RR-002	SITE-SPECIFIC RAILROAD CROSSING DETAIL	1	ISSUE FOR FERC	01/2017	GH	EB	DGG	DP	03/2017	1" = 200'	1" = 200'	1" = 200'	1" = 200'	STLP-A-060	2
2	240'	PIPE, 24.000" OD X 0.500" WT, API-5L, X70, DSAW, FBE/ARO COATED			2	AMENDMENT TO FERC	04/2017	KAM	RJP	DGG								

Spire STL Pipeline

M M
MOTT MACDONALD

SCALE: 1" = 200'
 DRAWING NO.: STLP-A-060
 REVISION: 2