

ATTACHMENT INFORMATION SHEET - REVISION 6/14/2017			
Licensee	MCIMetro	Pole Total	64
Licensee #	Horton Spoke 3	# of New	30
Location	St Paul, MN	# of Overlash	0
PPA #	8429	Attachment Total	30

Notes:			
1. Enter all measurements in decimal format (ie 15.6.67 = 15.5)			
2. Lowest power at pole may be neutral, secondary, top of terminal rise, bottom of drip loops, etc.			
3. For Power Equipment, note transformers, capacitor banks, switches, etc.			
Please refer to the Appendix on "Communications Attachments to Load Energy Distribution Facilities" for specific clearance requirements. A copy of the Appendix can be obtained by calling (851) 226-2500.			
Decimal Conversion:			
0° = 00	4° = 33	6° = 87	
1° = 08	5° = 42	9° = 76	
2° = 17	6° = 50	10° = 83	
3° = 25	7° = 58	11° = 92	

Appendix D										For specific clearance requirements. A copy of the Appendix can be obtained by calling (851) 229-2300.										Highest Existing Communications		Proposed Communications / Pass / Fail Equipment Clearance						Pass / Fail Vertical		Pole Loading Information					Proposed Modifications / Make-Ready Necessary to Allow for Attachment	Approved / Denied / Approved with Conditions	For Xcel Energy Use Only						
Power Pole & Equipment		Existing Attachment Information					Proposed Attachment Information		48" from power cable	12" from street light bracket / drip loop	12" clearance from Communication wire (2)	15.6' at Pole Above Surface	48" from power cable	12" from street light bracket / drip loop	30" mid-span power cable clearance	12" clearance from Communication wire (1)	12" clearance from Communication wire (2)	12" clearance from Communication wire (3)	15.6' at Pole Above Surface	15.6' at Pole Above Surface	Span Length	Cable Diameter	Cable Weight	Structure Type (Tangent, Dead-End, Angle, etc.)	Current % Loading	Proposed % Loading	Guy / Anchor Required?	Male Ready Required / Comments	Approved Attachment Height	Guy/ Anchor Required?	Post Inspection Height	Power Failure											
24	N	37742593			50-3	36.00	32.33		26.92	26.17			25.17	23.00	PASS		9	PASS	PASS		PASS	PASS	PASS		PASS	PASS	PASS	PASS	104	1.03	0.37	Dead-End	24.4	25.7%	Yes	Approved	MCimetro will need to attach their new line at 12" under the Q-1 (Century Link) line. MCimetro will need to place an anchor & down guy north.		Yes				
25	N	37740535			50-3	33.00	31.25		23.75	22.92			21.92	23.42	PASS		9.96	PASS	PASS		PASS	PASS	PASS		PASS	PASS	PASS	PASS	144	1.03	0.37	Tangent	27.9	30.6%	No	Approved	MCimetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No				
26	N	37740529			50-3	31.42	30.75		27.83	27.08			26.06	22.33	43.08		9	PASS	PASS		PASS	PASS	PASS		PASS	PASS	PASS	PASS	115	1.03	0.37	Tangent	28.5	32.6%	No	Approved	MCimetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No				
27	N	37740523			50-3	33.83	29.67		23.75	22.58			21.58	20.17	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	PASS	PASS	148	1.03	0.37	Junction	42.8	45.9%	No	Approved	MCimetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No				
28	N	37740517			40-5	29.42	26.92		24.92	23.83			22.83	19.00	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	PASS	PASS	201	1.03	0.37	Tangent	48.8	58.1%	No	Approved	MCimetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No				
29	N	37740511			40-5	30.42	21.92		24.17	23.25			22.25	16.00	PASS		11.04	PASS	PASS		PASS	PASS	PASS		PASS	PASS	PASS	PASS	235	1.03	0.37	Tangent	62.4	73.8%	No	Approved with Conditions	MCimetro will need to contact the owner of A-1 (Comcast) to re-sag their 235' span to the south up to the maximum height. Note: the excess slack will need to be pushed another 165' to pole 31 which is a dead-end where it can be taken out. MCimetro will need to contact the owner of Q-1 (Century Link) to re-sag their 235' span to the south up to the maximum height. Note: the excess slack will need to be pushed another 165' to pole 31 which is a dead-end where it can be taken out. MCimetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No				
30	N	37740415			40-5	24.92	21.33		21.42	20.42			19.42	16.08	42		PASS	PASS	PASS		PASS	PASS	PASS		19.42	PASS	PASS	PASS	168	1.03	0.37	Tangent	50.2	59.5%	No	Approved	MCimetro will need to attach their new line at 12" under the Q-1 (Century Link) line. Note: the excess slack from makeready work on previous pole 29 to continue forward to pole 31.		No				
31	N	37740409			40-4	27.33	26.92		22.42	21.00			20.00	19.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	PASS	PASS	107	1.03	0.37	Junction	80.2	80.3%	Yes	Approved	MCimetro will need to attach their new line at 12" under the Q-1 (Century Link) line. Note: the excess slack from makeready work on previous pole 29 to continue forward to pole 31.		Yes				
32	N	37740421	P-P	Guy	40-5	24.92	25.75	22.08	19.00	17.42			12.50		PASS	PASS	PASS	19.00	PASS	PASS		PASS	PASS	PASS		12.50		80	1.03	0.37	Tangent	48	51.1%	Yes	Approved	MCimetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No					
33	N	37740400	CTL	Pole	45-4	XFMR, STL Riser	27.58	28.17	23.75	22.08	20.67		1	19.67	17.25	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	111	1.03	0.37	Tangent	46.2	49.4%	No		Century Link owned pole						
34	N	37781638	CTL	Pole	45-4	STL Riser	30.08	27.67	29.50	20.17	18.67		1	18.67	17.33	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	0		18.67	PASS	91	1.03	0.37	Tangent	45	48.3%	No		A1 Raise 12" to 212". This will require a splice in the COAX riser. CTL Raise 18" to 202".					
35	N	37781626	CTL	Pole	40-4	XFMR	28.00	26.25		22.33	20.33		1	19.33	19.33	PASS		PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	19.33	PASS	65	1.03	0.37	Tangent	36.7	39.5%	No		CTL Rotate terminal 90 degrees.						
36	N	37781620			45-3		26.67	26.50		23.00	21.75			20.75	19.58	44.04		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	109	1.03	0.37	Junction	45	46.1%	No	Approved	MCimetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No					
37	N	37781632	CTL	Pole	40-4	STL	27.42	28.08	28.33	21.83	20.08			19.08	16.50	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	19.08	PASS	98	1.03	0.37	Tangent	43	46.4%	No		CTL Rotate terminal 90 degrees.							
38	N	37782661			45-5	XFMR	31.83	29.42		19.17	17.58			16.58	16.75	PASS		PASS	19.17	PASS		PASS	PASS	PASS	16.58	PASS	51	1.03	0.37	Tangent	41.3	43.9%	No	Approved	MCimetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No						
39	N	37782667	CTL	Pole	40-5	Riser	24.67	26.25		20.42	18.58		1	17.58	17.58	PASS		PASS	PASS	PASS	PASS	PASS	PASS	PASS	17.58	PASS	103	1.03	0.37	Tangent	51	54.3%	No		Century Link owned pole								
40	N	37756598	CTL	Pole	40-5	STL Riser	27.25	24.83	24.25	21.58	20.00		1	19.00	18.33	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	19.00	PASS	49	1.03	0.37	Tangent	42.7	44.8%	No		Century Link owned pole							
41	N	37756703			45-3	PTS, Riser	23.25	22.50		22.67	19.08		1	18.08	16.00	6.98		PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	18.08	PASS	136	1.03	0.37	Tangent	29.5	31.4%	No	Approved	A1 Lower 33" to 19'11" and re-sag. CTL Re-sag span west. MCimetro will need to attach their new line at 12" under the Q-1 (Century Link) line.		No					
42	N	37756679	CTL	Pole	45-3	STL	22.25	19.42	25.83	17.08	15.25			17.08	15.92	PASS	PASS	PASS	17.08	PASS	PASS	PASS	0	PASS		17.08	PASS	74	1.03	0.37	Tangent	33.3	36.7%	No		Re-Frame and raise cabled secondary to 24'10". Secondary is wrapped around the face of pole. A1 Raise 24" to 19'1". CTL Raise 34" to 181"							
43	N	37756496	CTL	Pole	45-4	XFMR, STL	23.08	23.75	21.42	18.08	16.67			15.67	15.75	PASS	PASS	PASS	18.08	PASS	PASS	PASS	PASS	PASS	PASS	15.67	PASS	97	1.03	0.37	Tangent	46.1	48.7%	No	Approved with Conditions	MCimetro will need to contact the owner of Q-1 (Century Link) to rotate their terminal box from the north side of the pole to the east side. MCimetro will need to attach their new line at 12" under the Q-1 (Century Link) line. MCimetro will need to place an anchor & down guy west.		Yes					
44	N	37756481			40-3	XFMR, STL	25.33	23.83	23.83	20.50	19.00			18.00	16.08	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	18.00	PASS	96	1.03	0.37	Tangent	47.1	50.0%	No		CTL Rotate terminal 90 degrees.								
45	N	37756487			40-3	Riser	24.42		22.00			1	20.00		29.04		PASS	PASS			PASS		PASS		PASS			1.03	0.37	Dead-End	18.8	19.7%	Yes		A1 Lower 12" to 210"								
46	N	37770951	CTL	Pole	45-3	XFMR, Riser	25.67	24.00		20.75	18.50		2	21.75	19.42	PASS		PASS	PASS	47.04	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	123	1.03	0.37	Dead-End	43.9	43.8%	Yes		Century Link owned pole						
47	N	37770957	CTL	Pole	40-4		28.58	25.33		20.17	18.25			21.17	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	76	1.03	0.37	Tangent	43.6	47.5%	No		Century Link owned pole							
48	N	NT-1	CTL	Pole	35-5		24.00	23.58		19.58	18.08			20.58	20.50	PASS		PASS	PASS	41.04		PASS	PASS	PASS		PASS	PASS	164	1.03	0.37	Tangent	39.3	46.3%	No		Century Link owned pole							
49	N	37770963	CTL	Pole	40-4	XFMR, STL	22.67	21.17	21.08	18.17	16.33		1	19.17	18.83	PASS	PASS	PASS	18.17	42	PASS	28.08	PASS	PASS		19.17	PASS	120	1.03	0.37	Tangent	42.2	47.3%	No		Century Link owned pole							
50	N	37770969	CTL	Pole	40-5	Riser	25.33	27.25		19.50	18.17		1	20.50	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	79	1.03	0.37	Tangent	34	37.8%	No		Century Link owned pole							
51	N	37770975	CTL	Pole	40-5	XFMR	29.67	25.92		19.83	18.08	17.75		20.83	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS	PASS	PASS	PASS	81	1.03	0.37	Tangent	29.4	32.2%	No	Approved	MCimetro will need to attach their new line at 12" above the A-1 (Comcast) line.		No					
52	N	37770981	CTL	Pole	35-5		24.92	24.42		19.17	17.83			20.17	19.58	PASS		PASS	19.17	PASS		PASS	PASS	PASS		PASS	PASS	81	1.03	0.37	Tangent	32.3	36.7%	No		Century Link owned pole							
53	N	37770987	CTL	Pole	35-5		24.92	26.25		18.08	16.00			19.08	19.17	PASS		PASS	18.08	PASS		PASS	PASS	PASS		19.08	PASS	83	1.03	0.37	Tangent	42.4	46.7%	No		Century Link owned pole							
54	N	37771251	CTL	Pole	40-5	Riser	28.42	23.92		18.75	16.83		1	19.75	19.00	PASS		PASS	18.75	PASS		PASS	PASS	PASS		PASS	PASS	109	1.03	0.37	Tangent	36.5	40.8%	No		STL Bond to ground, place split duct over STL drip loops. A1 Lower 14" to 180". CTL Lower 6" to 17' 6"							
55	N	37770993	CTL	Pole	40-3	XFMR, STL	23.75	25.67	20.33	19.67	18.50			19.67	20.08	PASS	7.92	PASS	PASS	PASS	7.92	PASS	0	PASS		PASS	PASS	118	1.03	0.37	Tangent	31	34.2%	No		Century Link owned pole							
56	N	37770999	CTL	Pole	45-4	Riser	29.00	23.50		20.67	19.42	18.58	1	21.67	19.83	PASS		PASS	PASS	PASS		PASS	PASS	PASS	PASS	PASS	PASS	123	1.03	0.37	Tangent	39.1	43.4%	No		Century Link owned pole							
57	N	37752188	CTL	Pole	40-4	XFMR	23.75	24.92		20.33	19.17	18.17		20.33	20.83	41.04	PASS	PASS	41.04		PASS	0	PASS	PASS	PASS	PASS	PASS	88	1.03	0.37	Tangent	32.5	36.3%	No		A1 Lower 14" to 192". CTL Lower top attachment to 192"							
58	N	37752194	CTL	Pole	40-5		29.67	29.17		21.83	19.75			22.83	23.25	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	71	1.03	0.37	Tangent	22.1	24.6%	No		Century Link owned pole							
59	N	37752200	CTL	Pole	40-5	XFMR	28.83	26.75		20.92	19.00			23.00	20.83	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	150	1.03	0.37	Tangent	46.5	52.3%	No		Century Link owned pole							
60	N	37752287	CTL	Pole	40-5		29.75	25.50		21.06	19.42		1	22.08	20.08	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	80	1.03	0.37	Tangent	45.2	51.1%	No		Century Link owned pole							
61	N	37752866	CTL	Pole	40-5	XFMR, STL Riser	23.00	22.33	22.17	19.50	18.50			19.50	19.33	42	PASS	PASS	PASS	42	PASS	PASS	0	PASS		PASS	PASS	120	1.03	0.37	Tangent	53.1	57.1%	No		A1 Lower 12" to 180". CTL Lower 12" to 178"							
62	N	37752993	CTL	Pole	40-4	XFMR	28.17	28.33		20.67	18.75			2																													

UC/Synergetic Design

P.O. Box #550
Cottage Grove, MN 55016
(612)-991-7267

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February 14, 2019

Notify #766723

RE: MCImetro Access Transmission Services Corp., Facility Attachment Asset Permit Application APA8429, in St. Paul, MN.

Xcel Energy Facility Attachments
825 Rice St.
St. Paul, MN 55117

I have completed the site inspection and technical review of MCImetro Access Transmission Services Corp. application, permit number APA8429. I have determined that all poles as indicated on the sketch can be attached to without any rearrangements or pole change-outs with the exception of the poles listed below. This determination was made by referencing the requirements for communications attachments found in the "Xcel Energy Electric Distribution Design and Construction Standards" manual.

It is the attaching utilities responsibility to make sure that all NESC and local ordinances for vertical clearance above surfaces (roads, alleys, fields, buildings etc.) are met.

Note!

Total count of poles checked = 63. 30 – New Attachments

30 poles are owned by Xcel Energy. 33 poles are foreign owned. Total of 30 Xcel Energy poles can be attached to on this request.

Measurements were taken on February 2 with an ambient temperature of +14° F.

Poles of concern needing some sort of modification to meet clearance requirements are as follows:

See notes in Xcel Energy Use Only columns of the Attachment Information sheet.

Please note: Attachments must be tagged for communication ownership on every pole. Upon completion of project, Xcel Energy must be notified to complete a post inspection.

Estimated costs for any required "make-ready" work will be provided by Xcel Energy Design Staff upon request. Attachments cannot be made until the cost estimate is approved, payment is made, and the requesting party is notified by Xcel Energy that the "make-ready" work has been completed in the field.

Any communication attachments that do not currently meet minimum required NESC clearances from electrical conductors must only be maintained by electrically qualified workers. Please contact Xcel Energy for assistance with correcting any such existing clearance violations or to create a work environment that is safe for any employees and contractors of the Lessee's to perform such work.

Sincerely,



Jeff Renwick

● Page 2
Joint Use Technician
UC/Synergetic Design Inc.

February 13, 2019





POLE PERMIT APPLICATION

Xcel Energy Permit # _____

Licensee Permit # Horton Spoke 3-2

This Pole Permit Application ("PPA") is made to the Pole License Agreement between **Northern States Power Company d/b/a/ Xcel Energy** ("Electric Company") and **MCImetro Access Transmission Services Corp, d/b/a Verizon Access Transmission** dated: Dec 31, 2008- **PLA signature date- do not change**). Capitalized terms used in this PPA have the same meaning as such terms in the Pole License Agreement unless otherwise indicated.

Note: This Section only to be Completed by Licensee													
Number of Attachments Requested	<table border="1"><tr><td>30</td><td>New Attachments</td><td>30</td><td>No. of poles</td></tr><tr><td></td><td>Remove from Poles</td><td></td><td>No. of poles</td></tr><tr><td></td><td>Over Lash to Poles</td><td></td><td>No. of poles</td></tr></table>	30	New Attachments	30	No. of poles		Remove from Poles		No. of poles		Over Lash to Poles		No. of poles
30	New Attachments	30	No. of poles										
	Remove from Poles		No. of poles										
	Over Lash to Poles		No. of poles										
Pole Locations – Address	Starting on N Prior Ave, at Xcel pole# 37742593, head South to the alley South of W Inglehart Ave. Follow the alley West to Xcel pole# 37756487. Then rise up Xcel pole# 37770951, in the alley South of W Grand Ave at the intersection of N Cleveland Ave. Follow the alley East to Xcel pole# 37753310.												
City, County, and State	St Paul, Ramsey County, MN												
Map Showing Pole Locations	See Attachment 1 : Clearance and Pole Loading Worksheets See Attachment 2												
Description of Equipment to be Attached to Poles	864ct Ribbon Fiber lashed to a 1/4" EHS Strand.												
Licensee contact for emergencies	Mitchel VandenPlas												

LICENSEE

Signature:

Telephone:

612-246-4906 ex 4024

Name: (print)

Mitchel VandenPlas – Mi-Tech Services,
Inc. Agent for MCI Metro Access

Title:

Regional Project Manager

Company:

MCImetro Access Transmission Services
Corp, d/b/a Verizon Access Transmission

Address:

7383 County Rd 140,
Cologne, MN 55322

ELECTRIC COMPANY

Signature:		All Approved <i>(See attached)</i>	All Denied
Name (print):		Approved With Conditions <i>(See Attached Report)</i>	
		# of Attachments Approved: =	
Title:		Date:	

Modifications required
*(see attachment)***Electric Company contact for**
EMERGENCIES**Must follow instructions on attached report and subject to Licensee's compliance with all the requirements of the agreement, NESC, and other applicable state and local codes and regulations.****800-895-1999**

ATTACHMENT INFORMATION SHEET - REVISION 01/03/17										Notes:										Decimal Conversion:																																																																					
Licensee		MICRetro		Pole Total		64		1		1) Enter all measurements in decimal format (ie 15 8/16" = 15.5)		0" = .00		4" = .33		8" = .67		12" = 1.00		16" = 1.33		20" = 1.67		24" = 2.00		28" = 2.33		32" = 2.67																																																													
Licensee #		Horton Spoke 3		# of New		30		2		2) Lowest power at pole may be moved, secondary, top of terminal riser, bottom of drip loops, etc.		1" = .08		6" = .42		9" = .75		1" = .08		6" = .42		9" = .75		1" = .08		6" = .42		9" = .75																																																													
Location		St Paul, MN		# of Overhead		0		3		3) For Power Equipment, note transformers, capacitor banks, switches, etc.		2" = .17		6" = .60		10" = .83		2" = .17		6" = .60		10" = .83		2" = .17		6" = .60		10" = .83																																																													
PPA #				Attachment Total		30				Please refer to the Appendix on "Communications Attachments to Xcel Energy Distribution Facilities"		3" = .25		7" = .58		11" = .82		3" = .25		7" = .58		11" = .82		3" = .25		7" = .58		11" = .82																																																													
										For specific clearance requirements. A copy of the Appendix can be obtained by calling (855) 228-2500.																																																																															
Power Poles & Equipment										Existing Attachment Height Information										Proposed Attachment Information										Highest Existing Communications										Proposed Communications										Pass / Fail Equipment Clearance										Pass / Fail Vertical										Pole Loading Information										For Xcel Energy Use Only									
Pole No. (on Map)	New (N) or Overhead (O)	Xcel Energy GIS Pole ID	Latitude	Longitude	Pole Ht. Class	Power Equipment on Pole	Lowest Power at Pole	Lowest Power Cable at Mid-span	Street Light Bracket / Drop Light (feet)	Highest Existing Conductor: At Pole (1)	Existing Conductor: At Pole (2)	Existing Conductor: At Pole (3)	# of Existing Risers	Proposed Attachment Height for New Cable	Proposed Mid-span Cable Height (Must meet SDLS 4.6.10.1 and local ord.)	48" from power cable	12" from street light bracket / drop loop	12" clearance from Conductor: over (2)	19.5' at Pole Above Surface	48" from power cable	12" from street light bracket / drop loop	30" mid-span lower cable clearance	12" clearance from Conductor: over (1)	12" clearance from Conductor: over (2)	12" clearance from Conductor: over (3)	19.5' at Pole Above Surface	15.0' at Mid-span Above Surface (Must meet SDLS 4.6.10.1 and local ord.)	Span Length	Cable Diameter	Cable Weight	Structure Type (Tangent, Dead-End, Angle, etc.)	Current % Loading	Proposed % Loading	Guy / Anchor Required?	Proposed Modifications / Make-Ready Necessary to Allow for Attachment	Approved / Denied / Approved with Conditions	Make Ready Required / Comments	Approved Attachment Height	Guy / Anchor Required?	Post Inspection Photo?	Pass / Fail																																																
24	N	37742593			50-3		36.00	32.33		26.92	26.17			25.17	23.00	PASS		9	PASS	PASS		PASS	PASS	PASS		PASS	PASS	104	1.03	0.37	Dead-End	24.4	25.7%	Yes																																																							
25	N	37745035			50-3		33.00	31.25		23.75	22.92			21.92	23.42	PASS	9.96	PASS	PASS		PASS	PASS	PASS		PASS	PASS	144	1.03	0.37	Tangent	27.9	30.6%	No																																																								
26	N	37745029			50-3	XFMR	31.42	30.75		27.83	27.08			26.08	22.33	43.08	9	PASS	PASS		PASS	PASS	PASS		PASS	PASS	115	1.03	0.37	Tangent	28.5	32.6%	No																																																								
27	N	37745023			50-3		33.83	29.67		23.75	22.58			21.58	20.17	PASS		PASS	PASS		PASS	PASS	PASS		PASS	PASS	148	1.03	0.37	Junction	42.8	45.9%	No																																																								
28	N	37745017			40-5		29.42	26.92		24.92	23.83			22.83	19.00	PASS		PASS	PASS		PASS	PASS	PASS		PASS	PASS	201	1.03	0.37	Tangent	48.8	58.1%	No																																																								
29	N	37745011			40-5		30.42	21.92		24.17	23.25			22.25	16.00	PASS		11.04	PASS		PASS	PASS	PASS		PASS	PASS	235	1.03	0.37	Tangent	62.4	73.8%	No	A1 Re-sag span South. CTL Re-sag span South.																																																							
30	N	37740415			40-5		24.92	21.33		21.42	20.42			19.42	16.08	42		PASS	PASS		PASS	PASS	PASS			19.42	PASS	168	1.03	0.37	Tangent	50.2	59.5%	No																																																							
31	N	37740409			40-4		27.33	26.92		22.42	21.00			20.00	19.33	PASS		PASS	PASS		PASS	PASS	PASS		PASS	PASS	107	1.03	0.37	Junction	80.2	80.3%	Yes																																																								
32	N	37740421	P-P	Guy	40-5	XFMR, STL	24.92	25.75	22.08	19.00	17.42			12.50		PASS	PASS	PASS	19.00	PASS	PASS			PASS	PASS		12.50		80	1.03	0.37	Tangent	48	51.1%	Yes																																																						
33	N	37740400	CTL	Pole	45-4	XFMR, STL, Riser	27.58	28.17	23.75	22.08	20.67	1		19.67	17.25	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS		PASS	PASS	111	1.03	0.37	Tangent	46.2	49.4%	No	A1 Raise 12" to 21'2". This will require a splice in the COAX riser.																																																						
34	N	37761638	CTL	Pole	45-4	STL, Riser	30.08	27.67	29.50	20.17	18.67	1		18.67	17.33	PASS	PASS	PASS	PASS	PASS	PASS	PASS	0			18.67	PASS	91	1.03	0.37	Tangent	45	48.3%	No																																																							
35	N	37761626	CTL	Pole	40-4	XFMR	28.00	26.25		22.33	20.33	1		19.33	19.33	44.04		PASS	PASS		PASS	PASS	PASS			19.33	PASS	65	1.03	0.37	Tangent	36.7	39.5%	No	CTL Rotate terminal 90 degrees.																																																						
36	N	37761620			45-3		26.67	26.50		23.00	21.75			20.75	19.58	PASS		PASS	PASS		PASS	PASS	PASS			PASS	PASS	109	1.03	0.37	Junction	45	46.1%	No																																																							
37	N	37761632	CTL	Pole	40-4	STL	27.42	28.08	26.33	21.83	20.08			19.08	16.50	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS			19.08	PASS	98	1.03	0.37	Tangent	43	46.4%	No	CTL Rotate terminal 90 degrees.																																																						
38	N	37762681			45-5	XFMR	31.83	29.42		19.17	17.58			16.58	16.75	PASS		PASS	19.17	PASS		PASS	PASS	PASS		16.58	PASS	51	1.03	0.37	Tangent	41.3	43.9%	No																																																							
39	N	37762687	CTL	Pole	40-5	Riser	24.67	26.25		20.42	18.58	1		17.58	17.58	PASS		PASS	PASS	PASS		PASS	PASS	PASS		17.58	PASS	103	1.03	0.37	Tangent	51	54.3%	No																																																							
40	N	37756598	CTL	Pole	40-5	STL, Riser	27.25	24.83	24.25	21.58	20.00	1		19.00	18.33	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS			19.00	PASS	49	1.03	0.37	Tangent	42.7	44.8%	No																																																							
41	N	37756703			45-3	PTS, Riser	33.25	22.50		22.67	19.08	1		18.08	16.00	6.96		PASS	PASS		PASS	PASS	PASS			18.08	PASS	136	1.03	0.37	Tangent	29.5	31.4%	No	A1 Lower 33" to 19'11" and re-sag. CTL Re-sag span west.																																																						
42	N	37756679	CTL	Pole	45-3	STL	22.25	19.42	25.83	17.08	15.25			17.08	15.92	PASS	PASS	PASS	17.08	PASS		PASS	0	PASS		17.08	PASS	74	1.03	0.37	Tangent	33.3	36.7%	No	Re-Frame and raise cabled secondary to 24'10". Secondary is wrapped around the base of pole. A1 Raise 34" to 18'1". CTL Raise 34" to 18'1".																																																						
43	N	37756496	CTL	Pole	45-4	XFMR, STL	33.08	23.75	21.42	18.08	16.67			15.67	15.75	PASS	PASS	PASS	18.08	PASS	PASS	PASS	PASS	PASS		15.67	PASS	97	1.03	0.37	Tangent	46.1	46.7%	No																																																							
44	N	37756481			40-3	XFMR, STL	25.33	23.83	23.83	20.50	19.00			18.00	16.08	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS			18.00	PASS	86	1.03	0.37	Tangent	47.1	50.0%	No	CTL Rotate terminal 90 degrees.																																																						
45	N	37756487			60-3	Riser	24.42			22.00		1		20.00		29.04		PASS	PASS			PASS				PASS			1.03	0.37	Dead-End	18.8	19.7%	Yes	A1 Lower 12" to 21'0"																																																						
46	N	37770951	CTL	Pole	45-3	XFMR, Riser	25.67	24.00		20.75	18.50			21.75	19.42	PASS		PASS	PASS	47.04		PASS	PASS	PASS		PASS	PASS	123	1.03	0.37	Dead-End	43.9	43.8%	Yes																																																							
47	N	37770957	CTL	Pole	40-4		28.58	25.33		20.17	18.25			21.17	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	76	1.03	0.37	Tangent	43.6	47.5%	No																																																							
48	N	NT-1	CTL	Pole	35-5		24.00	23.58		19.58	18.08			20.58	20.50	PASS		PASS	PASS	41.04		PASS	PASS	PASS		PASS	PASS	164	1.03	0.37	Tangent	39.3	46.3%	No																																																							
49	N	37770983	CTL	Pole	40-4	XFMR, STL	22.67	21.17	21.08	18.17	16.33	1		19.17	18.83	PASS	PASS	PASS	18.17	42	PASS	28.08	PASS	PASS		19.17	PASS	120	1.03	0.37	Tangent	42.2	47.3%	No																																																							
50	N	37770989	CTL	Pole	40-5	Riser	25.33	27.25		19.50	18.17	1		20.50	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	79	1.03	0.37	Tangent	34	37.8%	No																																																							
51	N	37770975			40-5	XFMR	29.67	25.92		19.83	18.08	17.75		20.83	20.33	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	81	1.03	0.37	Tangent	29.4	32.2%	No																																																							
52	N	37770981	CTL	Pole	35-5		24.92	24.42		19.17	17.83			20.17	19.58	PASS		PASS	PASS	19.17	PASS		PASS	PASS		PASS	PASS	81	1.03	0.37	Tangent	32.3	36.7%	No																																																							
53	N	37770987	CTL	Pole	35-5		24.42	26.25		18.08	16.00			19.08	19.17	PASS		PASS	18.08	PASS		PASS	PASS	PASS		19.08	PASS	83	1.03	0.37	Tangent	42.4	46.7%	No																																																							
54	N	37771251	CTL	Pole	40-5	Riser	28.42	23.92		18.75	16.83	1		19.75	19.00	PASS		PASS	18.75	PASS		PASS	PASS	PASS		PASS	PASS	109	1.03	0.37	Tangent	36.5	40.8%	No	STL, Bond to ground, place split duct over STL, slip loops.																																																						
55	N	37770993	CTL	Pole	40-3	XFMR, STL	23.75	25.67	20.33	19.67	18.50			19.67	20.08	PASS	7.92	PASS	PASS	PASS	7.92	PASS	0	PASS		PASS	PASS	118	1.03	0.37	Tangent	31	34.2%	No	A1 Lower 14" to 19'0". CTL Lower 14" to 19'0".																																																						
56	N	37770999	CTL	Pole	45-4	Riser	29.00	23.50		20.67	19.42	18.58	1	21.67	19.83	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	123	1.03	0.37	Tangent	39.1	43.4%	No																																																							
57	N	37752188	CTL	Pole	40-4	XFMR	33.75	24.92		20.33	19.17	18.17		20.33	20.83	41.04	PASS	PASS	41.04		PASS	0	PASS	PASS	PASS	PASS	PASS	68	1.03	0.37	Tangent	32.5	36.3%	No	A1 Lower 14" to 19'2". CTL Lower top attachment to 18'2".																																																						
58	N	37752194	CTL	Pole	40-5		29.67	29.17		21.83	19.75			22.83	23.25	PASS		PASS	PASS	PASS		PASS	PASS	PASS		PASS	PASS	71	1.03	0.37	Tangent	22.1	24.6%	No																																																							
59	N	37752200	CTL	Pole	40-5	XFMR	28.83	26.75																																																																																	