

**TWIN HILLS RURAL POWER SYSTEM UPGRADE
TOGIAK TO TWIN HILLS TIE LINE**

STAKING SHEETS

ISSUED FOR CONSTRUCTION – AUGUST 2018

GRAY STASSEL ENGINEERING, INC

P.O. BOX 111405

ANCHORAGE, ALASKA 99511-1405

REV. NO.	DATE	DESCRIPTION	BY	GRAY STASSEL ENGINEERING, INC. 1309 EAST KLATT ROAD, SUITE C ANCHORAGE, ALASKA 99511 (907) 349-0100										DESIGNER	DATE	TWIN HILLS RURAL POWER SYSTEM UPGRADE TOGIAK TO TWIN HILLS TIE-LINE
0	1/26/18	ISSUED FOR CONSTRUCTION.	CWV											CWV	January 26, 2018	
														CHECKER	DATE	
														CWV	January 26, 2018	
														DIST. ENG.	DATE	
														CWV	January 26, 2018	

LOCATION NUMBER	STATION	LINE ANGLE (DEG)	CONDUCTOR			POLE		PRIMARY ASSEMBLY		GUYS		ANCHORS		XFMRS		SECONDARY CONDUCTOR				SECONDARY SERVICE		MISCELLANEOUS CONSTRUCTION UNITS		RIGHT OF WAY	REMARKS/COMMENTS/NOTES
			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	No.	Units	SERVICE		BACKFEED		No.	Units	No.	Units		
																No.	SIZE/TYPE	Back Span	No.						
10						45	4	1	C1.11											1	J3.1	1	H1.1		SEE NOTES 1 & 2. DIRECT BURY POLE.
								1	C5.21																
10-1			4	#2 ACSR	20	45	4	1	C1.11	1	E1.1La	1	F7.0					20	1	#1/0 TRIPLEX					SEE NOTE 1. DIRECT BURY POLE. SLACK SPAN BACK TO LOCATION 10.
10-2			4	#2 ACSR	79	45	4	1	C1.11									79	1	#1/0 TRIPLEX	2	J3.1			SEE NOTE 1. DIRECT BURY POLE.
10-3			4	#2 ACSR	110	45	4	1	C1.11									110							SEE NOTE 1. DIRECT BURY POLE.
10-4			4	#2 ACSR	150	45	4	1	C1.11									150	1	#1/0 TRIPLEX	2	J3.1	1	H1.1	SEE NOTE 1. DIRECT BURY POLE.
10-5			4	#2 ACSR	130	45	4	1	C1.11									130	1	#1/0 TRIPLEX	2	J3.1			SEE NOTE 1. DIRECT BURY POLE.
10-6		18	4	#2 ACSR	50	45	4	1	C2.21P									50	1	#1/0 TRIPLEX	2	J3.1			SEE NOTE 1. DIRECT BURY POLE.
10-6A						40	4			1	E1.4L	1	F7.0												SEE NOTE 1. DIRECT BURY POLE.
10-7			4	#1/0 ACSR	135	45	4	1	C1.11	1	E1.1La	1	F7.0					135	1	#1/0 TRIPLEX	2	J3.1			SEE NOTE 1. DIRECT BURY POLE.
T1			4	#1/0 ACSR	215	40	4	1	C6.21	1	E1.1La	1	F7.0						1	#1/0 TRIPLEX	1	J3.1	1	H1-PILE	SEE NOTE 1. FIRST PILE SUPPORT. LOAD BREAK SWITCH.
								1	S2.32b														1	H1.1G	
																							1	P3.3G	
T2		5	4	#1/0 ACSR	20	40	4	1	C1.11												1	J3.1	1	H1-PILE	SEE NOTE 1. METERING POLE.
								1	Q4.1b														1	P3.1G	

LOCATION NUMBER	STATION	LINE ANGLE (DEG)	CONDUCTOR			POLE		PRIMARY ASSEMBLY		GUYS		ANCHORS		XFMRS		SECONDARY CONDUCTOR				SECONDARY SERVICE		MISCELLANEOUS CONSTRUCTION UNITS		RIGHT OF WAY	REMARKS/COMMENTS/NOTES
			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	SERVICE		BACKFEED		No.	Units	No.	Units				
														No.	SIZE/TYPE	Back Span	No.					SIZE/TYPE			
T3			4	#1/0 ACSR	20	40	4	1	S2.31								20	1	#6 AWG QUADRUPLX	1	J3.1	1	H1-PILE		SEE NOTE 1. RECLOSER.
								1	R3.3b													1	P3.3G		
T4			4	#1/0 ACSR	275	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	P3.1G		
T5			4	#1/0 ACSR	280	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	H1.1G		
																						1	P3.1G		
T6			4	#1/0 ACSR	280	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	P3.1G		
T7			4	#1/0 ACSR	280	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	P3.1G		
T8			4	#1/0 ACSR	300	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	P3.1G		
T9			4	#1/0 ACSR	275	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	H1.1G		
																						1	P3.1G		
T10			4	#1/0 ACSR	275	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	P3.1G		
																						1	P3.1G		
T11			4	#1/0 ACSR	275	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	P3.1G		
T12			4	#1/0 ACSR	300	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	P3.1G		
T13			4	#1/0 ACSR	275	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	H1.1G		
																						1	P3.1G		
T14			4	#1/0 ACSR	275	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	P3.1G		
T15			4	#1/0 ACSR	275	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	P3.1G		

LOCATION NUMBER	STATION	LINE ANGLE (DEG)	CONDUCTOR			POLE		PRIMARY ASSEMBLY		GUYS		ANCHORS		XFMRS		SECONDARY CONDUCTOR				SECONDARY SERVICE		MISCELLANEOUS CONSTRUCTION UNITS		RIGHT OF WAY	REMARKS/COMMENTS/NOTES	
			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	SERVICE		BACKFEED		No.	Units	No.	Units					
														No.	SIZE/TYPE	Back Span	No.					SIZE/TYPE				
T16			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE		SEE NOTE 1.
																							1	P3.1G		
T17			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE		SEE NOTE 1.
																							1	H1.1G		
																							1	P3.1G		
T18			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE		SEE NOTE 1.
																							1	P3.1G		
T19			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE		SEE NOTE 1.
																							1	P3.1G		
T20		42	4	#1/0 ACSR	255	45	4	1	C6.91G	2	E1.1La	2	F7.0										1	H1-PILE		SEE NOTE 1.
																							1	P3.3G		
T21			4	#1/0 ACSR	250	40	4	1	C1.11														1	H1-PILE		SEE NOTE 1.
																							1	P3.1G		
T22			4	#1/0 ACSR	250	40	4	1	C1.11														1	H1-PILE		SEE NOTE 1.
																							1	P3.1G		
T23			4	#1/0 ACSR	250	40	4	1	C1.11														1	H1-PILE		SEE NOTE 1.
																							1	P3.1G		
T24			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE		SEE NOTE 1.
																							1	P3.1G		
T25			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE		SEE NOTE 1.
																							1	H1.1G		
																							1	P3.1G		
T26			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE		SEE NOTE 1.
																							1	P3.1G		
T27			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE		SEE NOTE 1.
																							1	P3.1G		
T28			4	#1/0 ACSR	120	40	4	1	C1.11														1	H1-PILE		SEE NOTE 1.
																							1	P3.1G		
T29			4	#1/0 ACSR	300	40	4	1	C1.11														1	H1-PILE		SEE NOTE 1.
																							1	H1.1G		
																							1	P3.1G		

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			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	SERVICE		BACKFEED		No.	Units	No.	Units					
														No.	SIZE/TYPE	Back Span	No.					SIZE/TYPE				
T30			4	#1/0 ACSR	275	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.	
																						1	P3.1G			
T31			4	#1/0 ACSR	275	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.	
																						1	P3.1G			
T32			4	#1/0 ACSR	275	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.	
																						1	P3.1G			
T33		7	4	#1/0 ACSR	255	45	4	2	C5.21	2	E1.1La	2	F7.0									1	H1-PILE		SEE NOTE 1.	
																						1	H1.1G			
T34			4	#1/0 ACSR	255	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.	
									1	P1.3												1	P3.1G			
T35		16	4	#1/0 ACSR	255	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.	
																						1	P3.3G			
T36		40	4	#1/0 ACSR	255	45	4	2	C5.21	2	E1.1La	2	F7.0									1	H1-PILE		SEE NOTE 1.	
																						1	P3.3G			
T37			4	#1/0 ACSR	200	50	4	1	C6.52G	1	E1.1La	1	F7.0	1	G1.4-10					1	N7.6	1	H1-PILE		SEE NOTE 1.	
									1	A2.021											2	J3.1	1	H1.1G		SEE UNIT A6.22G FOR OUTSIDE PHASE ROUTING.
									1	A6.22G												1	P3.3G			
T38A			4	#1/0 ACSR	125	60	H2													1	#4 TRIPLEX	1	H1.1G		SEE NOTE 1. SEET NOTE 3. SEE NOTE 6.	
T38B			4	#1/0 ACSR	30	60	H2															1	H1.1G		SEE NOTE 1. SEET NOTE 3.	
T38C			4	#1/0 ACSR	30	60	H2															1	H1.1G		SEE NOTE 1. SEET NOTE 3.	
T38D			4	#1/0 ACSR	30	60	H2													1	#4 TRIPLEX	1	H1.1G		SEE NOTE 1. SEET NOTE 3. SEE NOTE 6.	
T39A			1	7#8 ALUMAWELD	1200	60	H2													1	#4 TRIPLEX	1	H1.1G		SEE NOTE 1. SEET NOTE 3. SEE NOTE 6.	
T39B			1	7#8 ALUMAWELD	1200	60	H2															1	H1.1G		SEE NOTE 1. SEET NOTE 3.	

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			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	SERVICE		BACKFEED		No.	Units	No.	Units					
														No.	SIZE/TYPE	Back Span	No.					SIZE/TYPE				
T39C			1	7#8	1200	60	H2															1	H1.1G		SEE NOTE 1. SEET NOTE 3.	
				ALUMAWELD																						
T39D			1	7#8	1200	60	H2									1	#4 TRIPLEX					1	J3.1	1	H1.1G	SEE NOTE 1. SEET NOTE 3. SEE NOTE 6.
				ALUMAWELD																						
T40			4	#1/0 ACSR	125	50	4	1	C6.52G	1	E1.1La	1	F7.0	1	G1.4-10							1	N7.6	1	H1-PILE	SEE NOTE 1. SEE UNIT A6.22G FOR OUTSIDE PHASE ROUTING.
								1	A2.021													2	J3.1	1	H1.1G	
								1	A6.22G															1	P3.3G	
T41			4	#1/0 ACSR	100	45	4	2	C5.21	2	E1.1La	2	F7.0											1	H1-PILE	SEE NOTE 1.
T42		26	4	#1/0 ACSR	255	255	4	1	C1.11															1	H1-PILE	SEE NOTE 1.
								1	P1.3															1	P3.1G	
T43			4	#1/0 ACSR	275	40	4	1	C1.11															1	H1-PILE	SEE NOTE 1.
																								1	H1.1G	
																								1	P3.1G	
T44			4	#1/0 ACSR	265	40	4	1	C1.11															1	H1-PILE	SEE NOTE 1.
																								1	P3.1G	
T45		5	4	#1/0 ACSR	265	45	4	1	C6.91G	2	E2.1Ga	2	F7.0											1	H1-PILE	SEE NOTE 1.
																								1	P3.3G	
T46			4	#1/0 ACSR	275	40	4	1	C1.11															1	H1-PILE	SEE NOTE 1.
																								1	P3.1G	
T47			4	#1/0 ACSR	275	40	4	1	C1.11															1	H1-PILE	SEE NOTE 1.
																								1	H1.1G	
																								1	P3.1G	
T48			4	#1/0 ACSR	275	40	4	1	C1.11															1	H1-PILE	SEE NOTE 1.
																								1	P3.1G	
T49			4	#1/0 ACSR	275	40	4	1	C1.11															1	H1-PILE	SEE NOTE 1.
																								1	P3.1G	
T50			4	#1/0 ACSR	275	40	4	1	C1.11															1	H1-PILE	SEE NOTE 1.
																								1	P3.1G	
T51			4	#1/0 ACSR	250	40	4	1	C1.11															1	H1-PILE	SEE NOTE 1.
																								1	H1.1G	
																								1	P3.1G	

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			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	SERVICE		BACKFEED		No.	Units	No.	Units				
														No.	SIZE/TYPE	Back Span	No.					SIZE/TYPE			
T52			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
																							1	P3.1G	
T53			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T54			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T55			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	H1.1G	
																							1	P3.1G	
T56			4	#1/0 ACSR	250	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
																							1	P3.1G	
T57			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T58			4	#1/0 ACSR	300	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T59			4	#1/0 ACSR	350	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	H1.1G	
																							1	P3.1G	
T60			4	#1/0 ACSR	175	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T61			4	#1/0 ACSR	250	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T62			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T63			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	H1.1G	
																							1	P3.1G	
T64			4	#1/0 ACSR	250	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1. ONE SERVICE.
																							1	P3.1G	
T65			4	#1/0 ACSR	200	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	

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			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	SERVICE		BACKFEED		No.	Units	No.	Units				
														No.	SIZE/TYPE	Back Span	No.					SIZE/TYPE			
T66			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T67			4	#1/0 ACSR	300	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	H1.1G	
																							1	P3.1G	
T68			4	#1/0 ACSR	300	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T69			4	#1/0 ACSR	280	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T70			4	#1/0 ACSR	280	45	4	1	C6.91G	2	E1.1La	2	F7.0										1	H1-PILE	SEE NOTE 1.
																							1	P3.3G	
T71			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	H1.1G	
																							1	P3.1G	
T72			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T73			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T74			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T75			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	H1.1G	
																							1	P3.1G	
T76			4	#1/0 ACSR	275	40	4	1	C1.11														1	H1-PILE	SEE NOTE 1.
																							1	P3.1G	
T77		17	4	#1/0 ACSR	180	40	4	1	C6.21	1	E1.1La	1	F7.0										1	H1-PILE	SEE NOTE 1.
									1	A1.01													1	P3.3G	
									2	A2.021															
T78A			4	#1/0 ACSR	150	45	3		NOTE 3	1	E1.1La	1	F7.0										1	H1-PILE	SEE NOTE 1.
																							1	H1.1G	SEET NOTE 4.

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			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	No.	Units	SERVICE		BACKFEED		No.	Units	No.	Units		
																No.	SIZE/TYPE	Back Span	No.						
T78B			4	#1/0 ACSR	150	45	3		NOTE 3	1	E1.1La	1	F7.0									1	H1-PILE		SEE NOTE 1.
																						1	H1.1G		SEET NOTE 4.
T79A			4	#1/0 ACSR	440	45	3		NOTE 3	1	E1.1La	1	F7.0									1	H1-PILE		SEE NOTE 1.
																						1	H1.1G		SEET NOTE 4.
T79B			4	#1/0 ACSR	440	45	3		NOTE 3	1	E1.1La	1	F7.0									1	H1-PILE		SEE NOTE 1.
																						1	H1.1G		SEET NOTE 4.
T80			4	#1/0 ACSR	275	40	4	1	C6.21	1	E1.1La	1	F7.0									1	H1-PILE		SEE NOTE 1.
									1 A1.01													1	P3.3G		
									2 A2.021																
T81			4	#1/0 ACSR	250	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	P3.1G		
T82		16	4	#1/0 ACSR	250	45	4	1	C6.91G	2	E2.1Ga	2	F7.0									1	H1-PILE		SEE NOTE 1.
																						1	P3.3G		
T83			4	#1/0 ACSR	250	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	H1.1G		
																						1	P3.1G		
T84			4	#1/0 ACSR	250	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	P3.1G		
																						1	P3.1G		
T85			4	#1/0 ACSR	250	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	P3.1G		
T86			4	#1/0 ACSR	250	40	4	1	C1.11													1	H1-PILE		SEE NOTE 1.
																						1	P3.1G		
T87			4	#1/0 ACSR	250	40	4	1	C6.91G	2	E1.1La	2	F7.0									1	H1-PILE		SEE NOTE 1.
																						1	H1.1G		
																						1	P3.3G		

LOCATION NUMBER	STATION	LINE ANGLE (DEG)	CONDUCTOR			POLE		PRIMARY ASSEMBLY		GUYS		ANCHORS		XFMRS		SECONDARY CONDUCTOR				SECONDARY SERVICE		MISCELLANEOUS CONSTRUCTION UNITS		RIGHT OF WAY	REMARKS/COMMENTS/NOTES
			No.	SIZE/TYPE	Back Span	HEIGHT	CLASS	No.	Units	No.	Units	No.	Units	SERVICE		BACKFEED		No.	Units	No.	Units				
														No.	SIZE/TYPE	Back Span	No.					SIZE/TYPE			
T88			4	#1/0 ACSR	250	40	4	1	C1.11																SEE NOTE 1.
T89			4	#1/0 ACSR	250	45	4	1	C6.21	1	E1.1La	1	F7.0												SEE NOTE 1. INSTALL #2 ACSR JUMPERS LAST PILE SUPPORT.
								1	A1.01																
								2	A2.021																

STAKING SHEET NOTES:

- SEE PROJECT DETAIL DRAWINGS FOR MODIFIED RUS CONSTRUCTION UNITS. UNLESS OTHERWISE INDICATED, GUY LEADS SHALL BE 40 FEET FOR 40 FOOT POLES AND 45 FEET FOR 45 FOOT POLES. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- INSTALL NEW POLE IN EXISTING LINE. PLACE TIE-LINE TAP LOWER THAN THE EXSTING MAIN TOGIAK LINE.
- SEE DETAILS ON DRAWINGS FOR CONSTRUCTION REQUIREMENTS.
- SEE DETAIL H2.1 FOR CONSTRUCTION REQUIREMENTS.
- INSTALL 1-1/4" GALVANIZED RIGID CONDUIT WEATHERHEAD AND RISER FOR CONNECTION OF THE PT CONDUCTORS DOWN TO THE RECLOSER CONTROLLER. CONNECT CONDUIT TO THE BOTTOM OF THE RECLOSER CONTROLLER ENCLOSURE.
- INSTALL 2" RIGID CONDUIT RISER WITH WEATHERHEAD FOR SERVICE TO THE L-866/L-885 SYSTEM CONTROL PANEL. INSTALL ELECTRICAL SERVICE TO THE CONTROL PANEL EITHER THROUGH THE SIDE OF THE PANEL OR THROUGH THE BACK. DO NOT ENTER THE TOP OF THE PANEL ENCLOSURE. INSTALL WEATHERPROOF HUB AT CONDUIT ENTRANCES TO THE PANEL.