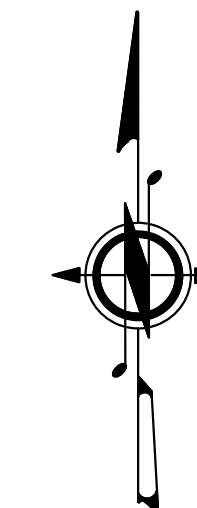


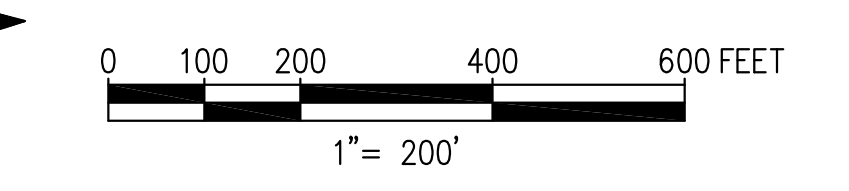
# TRANSMISSION LINE CONSTRUCTION PLANS

## LAIRD SUBSTATION TO AIRPORT SUBSTATION



SCALE

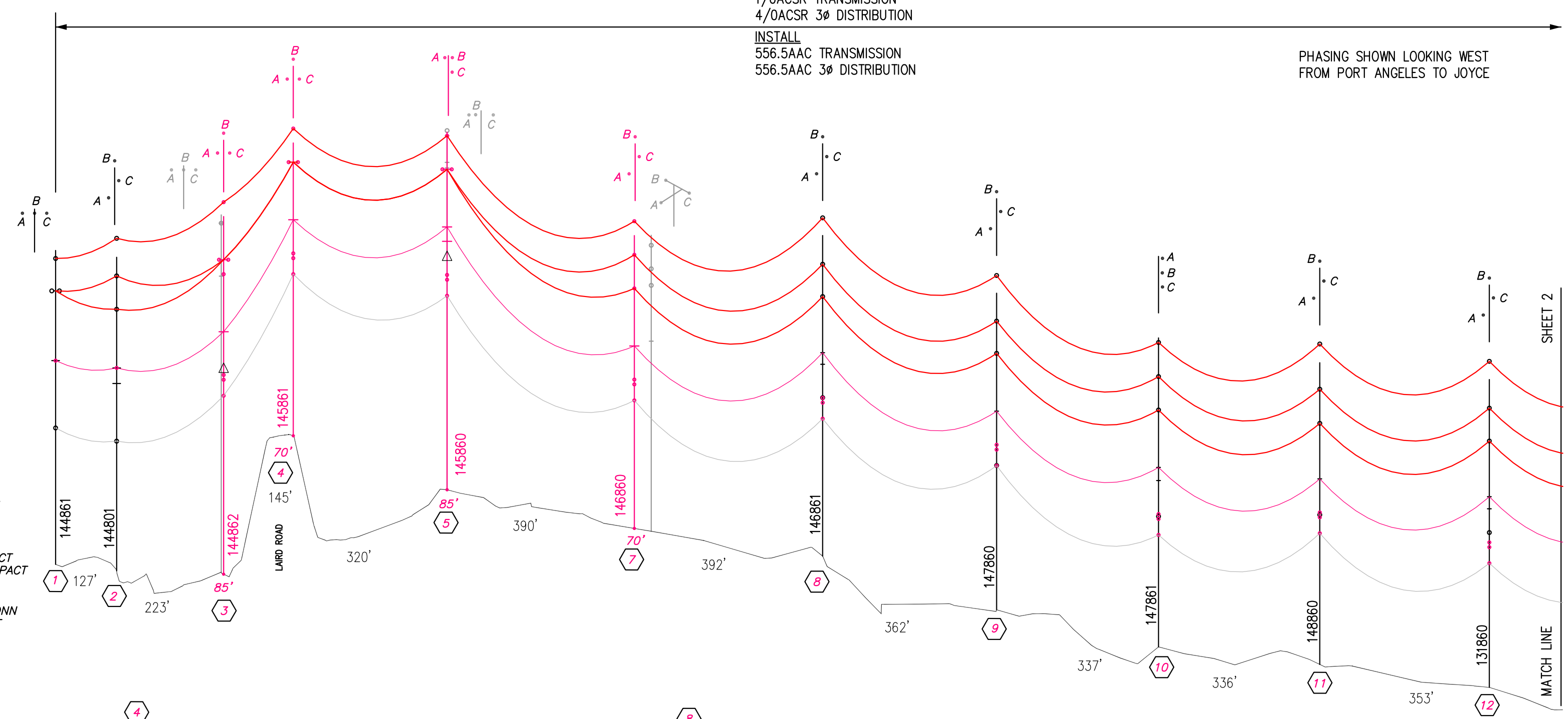
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VERTICAL: 1" = 20'



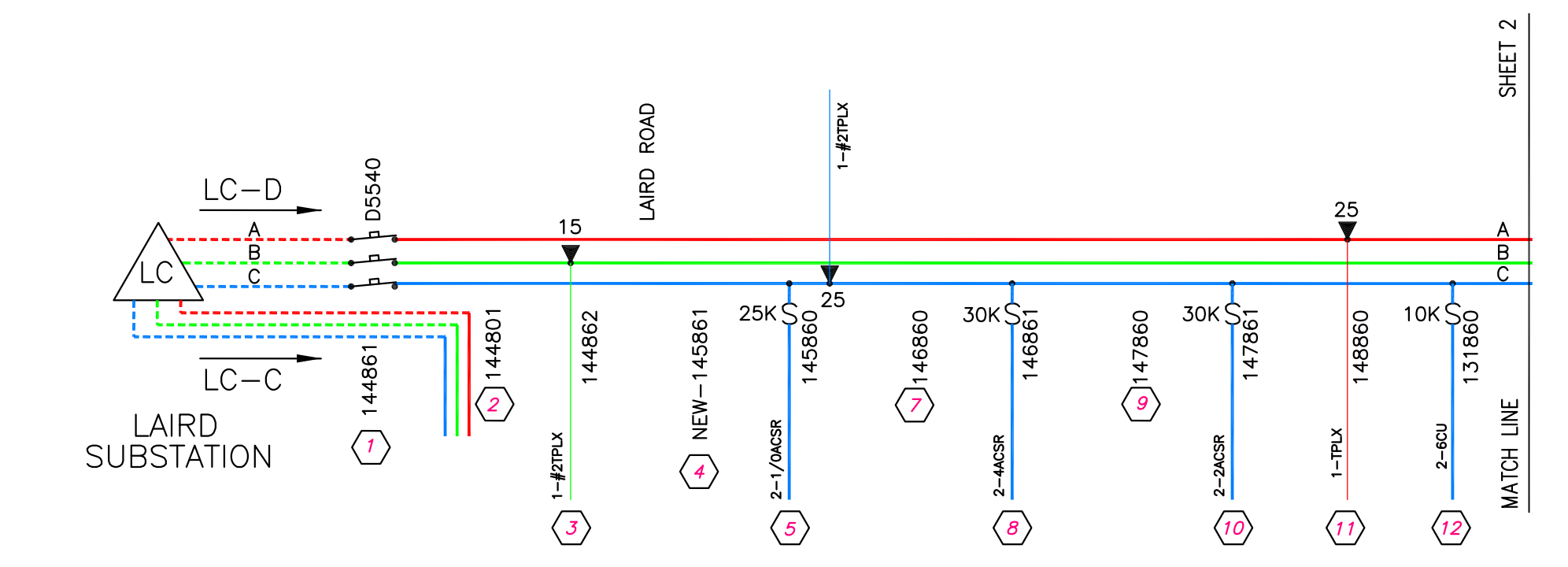
REMOVE  
1/OACSR TRANSMISSION  
4/OACSR 3Ø DISTRIBUTION

INSTALL  
556.5AAC TRANSMISSION  
556.5AAC 3Ø DISTRIBUTION

PHASING SHOWN LOOKING WEST  
FROM PORT ANGELES TO JOYCE



ONE-LINE DIAGRAM, THIS SHEET



- 1**  
3007-144861  
REMOVE  
(2) 69KV POST INSULATORS  
(3) 1/O JUMPERS  
RE-USE  
(3) 115KV SUSP INSULATORS  
INSTALL-TRANSMISSION  
(3) 6522220, 556.5AAC COMPR D.E. CONN  
(3) CL-PI-3, 1/OACSR POST INSL CLAMP  
(FOR 556.5AAC W/O ARMOR ROD)  
(3) DJUMP556A, 556.5AAC JUMPER  
(3) CNF-13, 556.5AAC TO 556.5AAC AMPACT  
(3) TZAM795556, 556.5AAC TO 795AAC AMPACT  
INSTALL-DISTRIBUTION  
KEEP LOWER NEUTRAL  
(4) DDEBS556A, 556.5AAC BOLTED D.E. CONN  
(3) 6308060, 556.5AAC TO 350CU AMPACT  
(1) GR-27, POLE GND

- 2**  
3007-144801  
INSTALL-TRANSMISSION  
(3) CL-PI-B, 556.5AAC POST INS CLAMP  
(3) TY6-J, 556.5AAC ARMOR ROD  
INSTALL-DISTRIBUTION  
KEEP LOWER NEUTRAL  
(3) TY1-J, 556.5AAC SNGL TOP TIE  
(1) GR-27, POLE GND

- 3**  
3007-144862  
REMOVE  
(1) 85' POLE  
(1) 69KV DBL DEADEND  
(1) C3.14, 3Ø DBL D.E. 10' XARM  
(1) 10KVA TRSF (#6033)  
(2) DOWN GUY  
INSTALL-TRANSMISSION  
(1) TP85FBGLS, 85' FBGLS POLE  
NOTE: MOUNT ARM 9' FROM TOP, NOT 8'  
FROM TOP AS SPEC CALLS FOR  
(1) 115DX1.1, 115KV D.E. W/ POLE TOP, PORC  
(3) DJUMP556A, 556.5AAC JUMPER  
(3) CL-PI-3, 1/OACSR POST INSL CLAMP  
(FOR 556.5AAC W/O ARMOR ROD)  
(6) CNF-13, 556.5AAC TO 556.5AAC AMPACT  
(6) 6522220, 556.5AAC COMPR D.E. CONN  
20' EXT LINKS MOUNT TO EAST INSUL  
(2) 3992000, 20' EXTENSION LINK  
14' EXT LINKS MOUNT TO WEST INSUL  
(2) 3992000, 14' EXTENSION LINK  
- TRANS DOWN GUY -  
(2) +GY-7, 18M TRANS DOWN GUY  
(1) 144", 54", J-BALL INSULATORS (TOP TRANS)  
(1) (2)X54", J-BALL INSULATORS (AT ARM)  
(2) TD104-040, 2-BOLT EYE PLATE  
(8) 18M GUY GRIP

- INSTALL-DISTRIBUTION  
(1) C5-3.17, 3Ø DBL D.E. UPP-N  
(4) DJUMP556A, 556.5AAC JUMPER  
(8) CNF-13, 556.5AAC TO 556.5AAC AMPACT  
(6) DDEBS556A, 556.5AAC BOLTED D.E. CONN  
- TRANSFORMER -  
(1) TR1-A2, 1Ø TRANS CONN ASSY  
(1) CL-ST-B, 556.5AAC STIRRUP  
(1) DFUN2-1/2X, FUSE  
(1) T15A1, 15KVA TRSF (#  
(1) SP-C11, #6-#2 SVC WEDGE CLAMP  
(1) +GY-3, 18M DOWN GUY  
(1) GR-27, POLE GND

- REMOVE-TRANSMISSION  
(1) 85' POLE  
(1) 69KV DBL XARM  
(3) CL-PI-3, 1/OACSR POST INSL CLAMP  
REMOVE-DISTRIBUTION  
(1) C3.14, 3Ø DBL 10' XARM  
(1) A3.13, 1Ø DBL 8' XARM  
(1) 25KVA TRSF (#  
(2) SPAN GUY  
INSTALL-TRANSMISSION  
(1) TP85FBGLS, 85' FBGLS POLE  
(1) 115V4.1, 115KV UPPER OPPOSED  
(3) CL-PI-B, 556.5AAC POST INSL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD  
- TRANSFORMER -  
(2) +GY-SPI, 18M SPAN GUY ASSEMBLY  
(1) 144", 54", J-BALL INSULATORS (TOP TRANS)  
(1) 2x54", J-BALL INSULATORS (BOTTOM TRANS)  
(1) TD105-007, POLE BAND SM 4-7.5"  
(1) TD105-006, POLE BAND MED 7-9.5"  
(6) 2101000, 18M GUY GRIP  
(350') 2050700, 18M GUY WIRE

- INSTALL-DISTRIBUTION  
(1) C3.18, 3Ø DBL 10' FBGLS XARM  
(4) TY4-J, 556.5AAC DBL SIDE WRAPLOCK  
-1Ø PRI RISER -  
(1) A4-3.16, 1Ø D.E. UP-N  
(2) DDEA1/OAS, 1/OACSR BOLTED DEAD END  
(1) CA-BRS, CUT-OUT BRACKET  
(1) DFUN25K, FUSE - PRIMARY TAP  
(1) CL-ST-8, 556.5AAC STIRRUP  
(1) CL-HL-17, HOT LINE CLAMP  
(1) DJUMP2CU, 2CU STR JUMPER  
(1) DZWR252ST, 1/OACSR TO 2CU W.R. TAP  
(1) DZWR2050 2CU TO 2CU W.R. TAP  
- TRANSFORMER -  
(1) TR1-A2, 1Ø TRANS CONN ASSY  
(1) CL-ST-B, 556.5AAC STIRRUP  
(1) T25A1, 25KVA DISTR TRSF (#  
(1) DFUNJK, FUSE - TRANSFORMER  
(1) SP-C11, #6-#2 SVC WEDGE CLAMP  
- DISTR SPAN GUY -  
(1) +GY-SPI, 18M SPAN GUY ASSEMBLY  
(1) TD105-005, POLE BAND LG 9-13.5"  
(200') 2050700, 18M GUY WIRE  
(1) TD104-040, 2-BOLT EYE PLATE  
(1) GR-27, POLE GND

- 4**  
3007-145861  
INSTALL-TRANSMISSION  
(1) TP70FBGLS, 70' FBGLS POLE  
(1) 115V3.2, 115KV VERT TANG W/ POLE TOP, PORC  
(3) CL-PI-B, 556.5 AAC POST INSL CLAMP  
(3) TY6-J, 556 AAC ARMOR ROD  
INSTALL-DISTRIBUTION  
(1) C3.17, 3Ø SNGL 10' FBGLS XARM  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
(1) GR-27, POLE GND

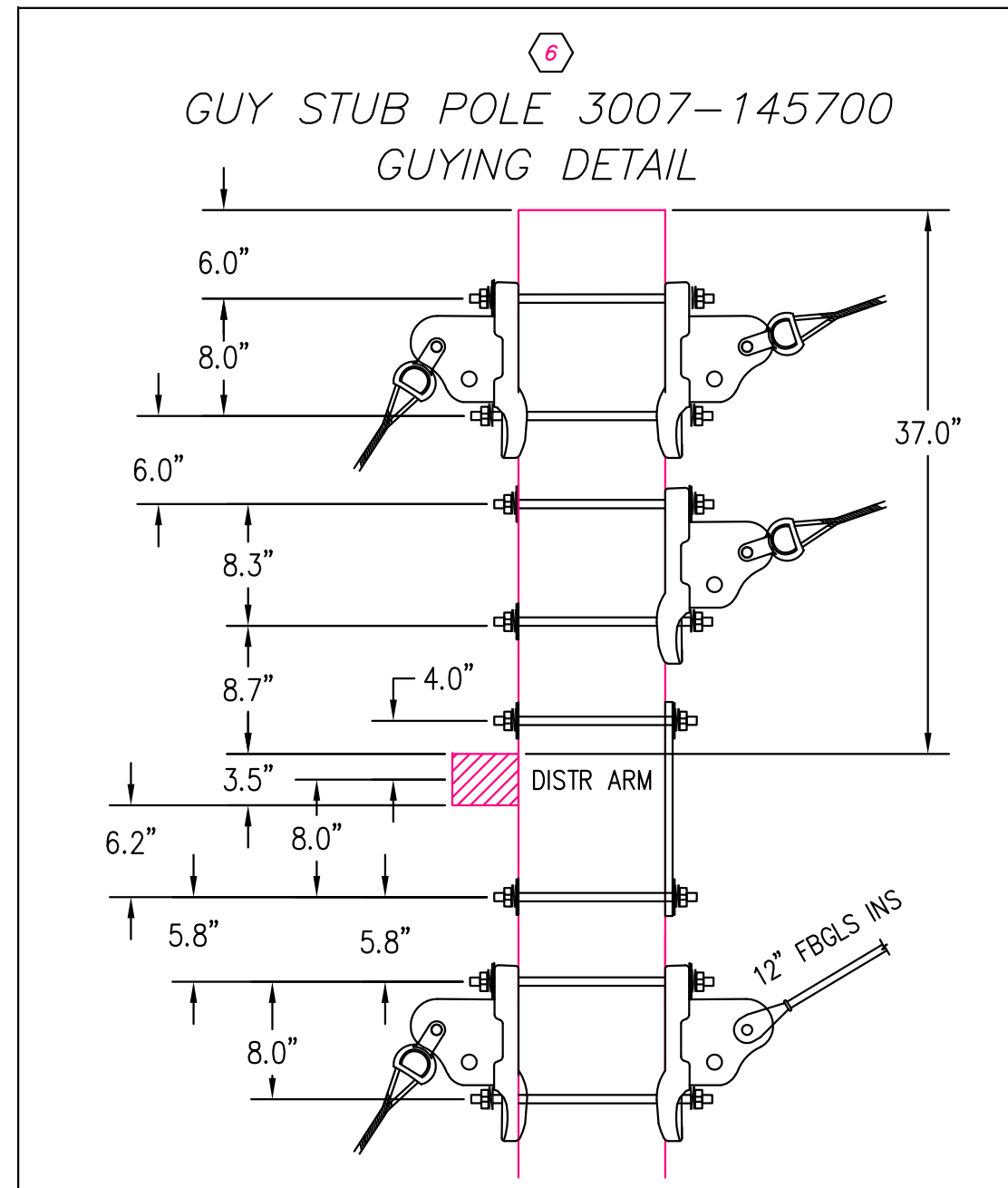
- 7**  
3007-146860  
REMOVE  
(1) 70' POLE  
(2) 69KV WISHBONE  
(1) C3.12, 3Ø 10' SNGL XARM  
INSTALL-TRANSMISSION  
(1) TP70FBGLS, 70' FBGLS POLE  
(1) 115V2.2, 115KV OPP TANG W/ POLE TOP, PORC  
(3) CL-PI-B, 556.5 AAC POST INSL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD  
INSTALL-DISTRIBUTION  
(1) C3.17, 3Ø SNGL 10' FBGLS XARM  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
(1) GR-27, POLE GND

- 8**  
3007-146861  
REMOVE-TRANSMISSION  
(3) CL-PI-3, 1/OACSR POST INSL CLAMP  
INSTALL-TRANSMISSION  
(3) CL-PI-B, 556.5 AAC POST INSL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD  
INSTALL-DISTRIBUTION  
RAISE LOWER-N TO UPPER-N  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
(1) DB111-301, 12.5KV PORC INS W/ PIN  
(1) CL-ST-B, 556.5AAC STIRRUP  
(1) GR-27, POLE GND

- 9**  
3007-147860  
REMOVE-TRANSMISSION  
(3) CL-PI-3, 1/OACSR POST INSL CLAMP  
INSTALL-TRANSMISSION  
(3) CL-PI-B, 556.5 AAC POST INSL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD  
INSTALL-DISTRIBUTION  
RAISE LOWER-N TO UPPER-N  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
(1) DB111-301, 12.5KV PORC INS W/ PIN  
(1) GR-27, POLE GND

- 12**  
3007-131860  
REMOVE-TRANSMISSION  
(3) CL-PI-3, 1/OACSR POST INSL CLAMP  
INSTALL-TRANSMISSION  
(3) CL-PI-B, 556.5 AAC POST INSL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD  
INSTALL-DISTRIBUTION  
RAISE LOWER-N TO UPPER-N  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
(1) DB111-301, 12.5KV PORC INS W/ PIN  
(1) CL-ST-B, 556.5AAC STIRRUP  
(1) GR-27, POLE GND

- 5**  
3007-145860  
REMOVE-TRANSMISSION  
(1) 45' POLE  
(1) 15KVA TRSF (#9632)  
(1) DOWN GUY  
(1) 1Ø RISER  
INSTALL  
(1) TP50FBGLS, 50' FIBERGLASS POLE  
(1) A4-3.16, 1Ø D.E. UP-N  
(2) DDEA1/OAS, 1/OACSR BOLTED DEAD END  
-1Ø PRI RISER -  
(1) RPI-SPL, 1Ø RISER W/ SPLICE  
(1) XB651-220, 15KV CUT-OUT ASSY  
(1) CA-BRS, CUT-OUT BRACKET  
(1) DFUN15K, FUSE-PRI RISER  
(1) CL-ST-4, 4-4/O STIRRUP  
(1) CL-HL, HOT LINE CLAMP  
- TRANSFORMER -  
(1) TR1-A2, 1Ø TRANS CONN ASSY  
(1) CL-ST-4, 4-4/O STIRRUP  
(1) T15A1, 15KVA TRSF (#  
(1) DFUN2-1/2X, FUSE-TRANS  
(1) SP-C11, #6-#2 SVC WEDGE CLAMP  
- GUY -  
NOTE: REFER TO GUY DETAIL AT RIGHT  
(3) TD104-040, 2-BOLT EYE PLATE  
(3) 2870400, CLEVIS THIMBLE  
(3) 2101000, 18M GUY GRIP  
(1) DD110-000, 12' FBGLS INS  
(2) +GY-3, 18M DOWN GUY ASSY  
(1) GR-28, POLE GND



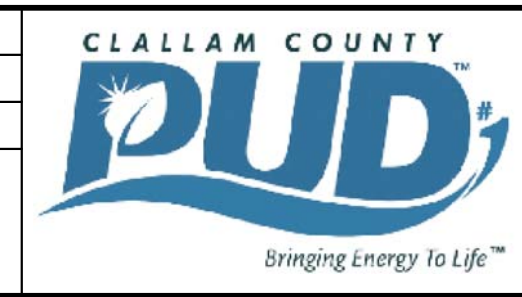
ISSUED FOR  
5/11/2018  
BIDDING

- LEGEND  
ROW CENTERLINE  
ROW BOUNDARY  
PAVEMENT EDGE  
GUARD RAIL  
GUY AND ANCHOR  
EXISTING POLE (NO CHANGE) ○  
REMOVE POLE ⊗  
NEW POLE ⊙

THIS DRAWING WAS PREPARED BY CLALLAM COUNTY PUD FOR A SPECIFIC PROJECT. TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT. REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH CLALLAM AND CLALLAM'S CLIENT IS GRANTED.

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
1	MOVED DDE FR STK23 TO STK24 & MISC	5/18/18	BENP	BP/MH	MH	MH	
0	ISSUED FOR BIDDING	5/11/2018	BENP	BP/MH	MH	MH	

DSGN	BENP	4/17/18
SURV	JP/EB	4/17/18
STKD	*	*
SCALE:	AS NOTED	
FOR 22:34 DWG ONLY		

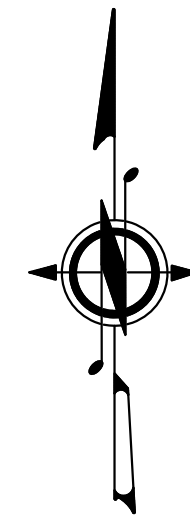


CLALLAM COUNTY PUD #1  
LAIRD CORNER TO AIRPORT ROAD  
PLAN/PROFILE VIEW - 1

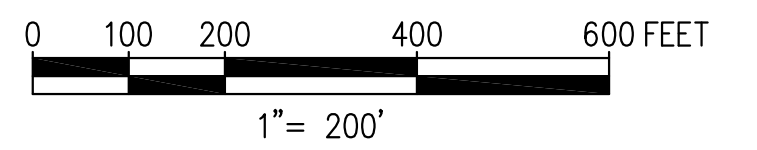
WORK ORDER #  
16-0196  
DRAWING NUMBER  
SHEET 1 OF 4

# TRANSMISSION LINE CONSTRUCTION PLANS

## LAIRD SUBSTATION TO AIRPORT SUBSTATION



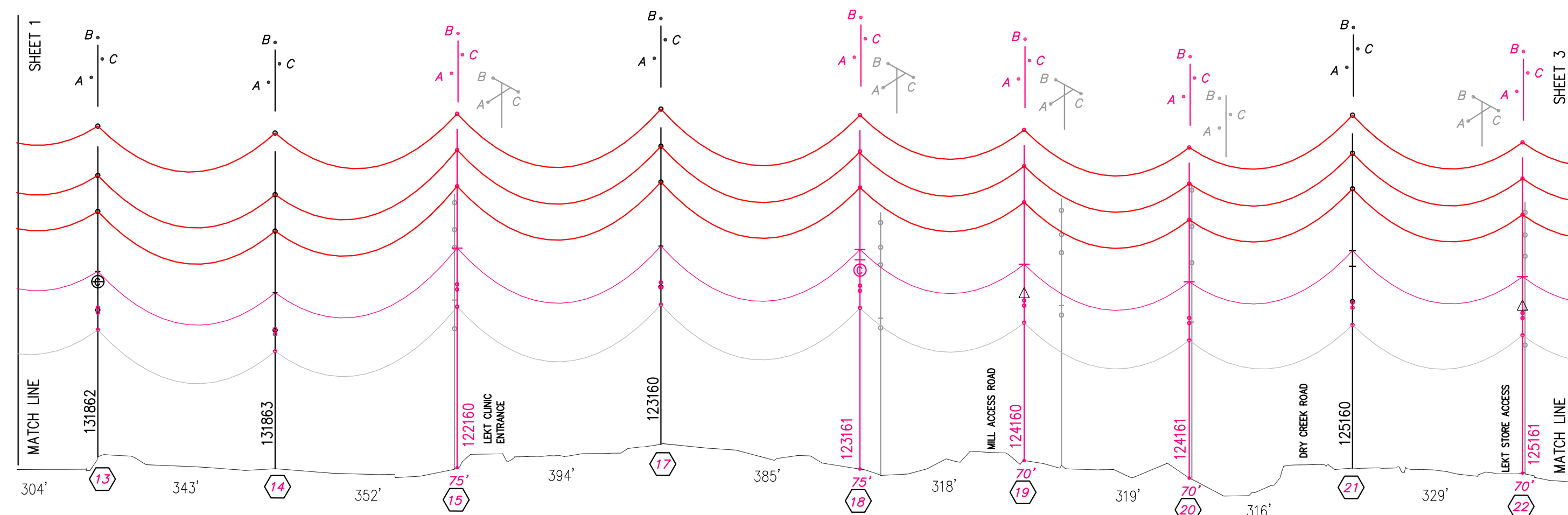
SCALE  
HORIZONTAL: 1" = 200'  
VERTICAL: 1" = 20'



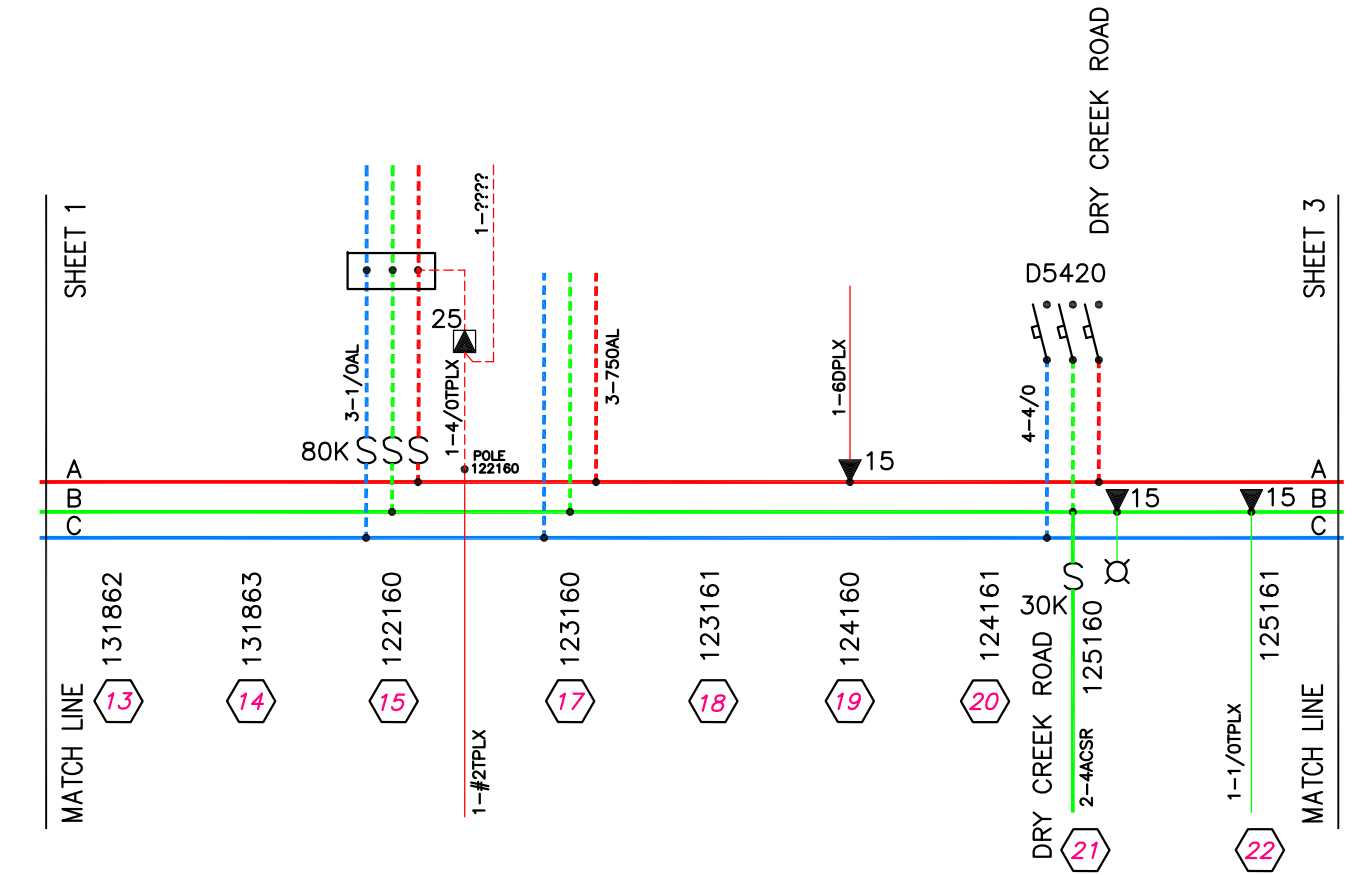
REMOVE  
1/OACSR TRANSMISSION  
4/OACSR 3# DISTRIBUTION

INSTALL  
556.5AAC TRANSMISSION  
556.5AAC 3# DISTRIBUTION

PHASING SHOWN LOOKING WEST  
FROM PORT ANGELES TO JOYCE



ONE-LINE DIAGRAM, THIS SHEET



- 15  
3007-122160  
NOTE: EXISTING DISTR ARM IS NOT STRUCTURALLY SOUND AND CANNOT BE USED FOR MOUNTING ADD'L HARDWARE
- REMOVE  
(1) 60' POLE  
(1) 69KV WISHBONE  
(1) C3.12, 3# 10' SNGL XARM
- INSTALL-TRANSMISSION  
(1) TP75FBGLS, 75' FBGLS POLE  
(1) 115TV2.2, 115KV OPP TANG W/ POLE TOP, PORC  
(3) CL-PI-B, 556.5 AAC POST INSUL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION  
(1) C3.17, 3# SNGL 10' FBGLS XARM  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
-3# PRI RISER -  
(3) RP1-SPL, 15KV 1# RISER W/ SPLICE  
(1) CR-33, 3# 3" PVC SCH 40 CONDUIT  
(3) CL-ST-B, 556.5AAC STIRRUP CLAMP  
(3) DFUNBK, FUSE  
(75/0) 90S2900, 15KV 1/0 PRI AL URD  
-1# SEC RISER -  
(1) CR-13, 3" SCH40 PVC RISER  
(1) 8993000, 3" PVC WEATHER HEAD  
(100H) SCUATP4040, 4/0 600V SEC TPLX URD  
\*REPLACE TO PADMOUNT TRSF\*  
(1) SP+CL1, #6-#2 SEC SVC D.E.  
(1) GR-27, POLE GND

- 16  
3007-122181  
THIS STAKE HAS BEEN REMOVED
- REMOVE  
(1) 60' POLE  
(1) 69KV WISHBONE  
(1) C3.12, 3# 10' SNGL XARM
- INSTALL-TRANSMISSION  
(1) TP75FBGLS, 75' FBGLS POLE  
(1) 115TV2.2, 115KV OPP TANG W/ POLE TOP, PORC  
(3) CL-PI-B, 556.5 AAC POST INSUL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION  
(1) C3.17, 3# SNGL 10' FBGLS XARM  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
(CAPACITOR CUT-OUT MOUNTING ARM)  
(1) 1040808, BFT FBGLS ARM
- TRANSFEEER  
(1) CAPTR-3, 300KVAR 3# CAPACITOR ASSY  
-3# CAPACITOR -  
(3) DJUMPBCL1, 60U JUMPER  
(3) CL-ST-B, 556.5AAC STIRRUP  
(3) DFUN15K, FUSE  
(1) GR-27, POLE GND

- 17  
3007-124160
- REMOVE  
(1) 60' POLE  
(1) 69KV WISHBONE  
(1) C3.12, 3# 10' SNGL XARM  
(1) 3KVA TRSF (#\_\_\_\_\_)
- INSTALL-TRANSMISSION  
(1) TP70FBGLS, 70' FBGLS POLE  
(1) 115TV2.2, 115KV OPP TANG W/ POLE TOP, PORC  
(3) CL-PI-B, 556.5 AAC POST INSUL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION  
(1) C3.17, 3# SNGL 10' FBGLS XARM  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
-TRANSFORMER-  
(1) TR1-A2, 1# TRANS CONN ASSY  
(1) DFUN2-1/2X, FUSE  
(1) T15A1, 15KVA TRSF (#\_\_\_\_\_)  
(1) SP+CL1, #6-#2 SVC WEDGE CL ASSY  
(1) GR-27, POLE GND

- 21  
3007-125160
- REMOVE-TRANSMISSION  
(1) 60' POLE  
(1) 69KV WISHBONE  
(1) C3.12, 3# 10' SNGL XARM  
(1) 3KVA TRSF (#\_\_\_\_\_)
- INSTALL-TRANSMISSION  
(1) TP70FBGLS, 70' FBGLS POLE  
(1) 115TV2.2, 115KV OPP TANG W/ POLE TOP, PORC  
(3) CL-PI-B, 556.5 AAC POST INSUL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION  
(1) C3.17, 3# SNGL 10' FBGLS XARM  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
-PRI TAP -  
(1) CL-ST-B, 556.5AAC STIRRUP  
(1) GR-27, POLE GND

- 22  
3007-125161
- REMOVE  
(1) 60' POLE  
(1) 69KV WISHBONE  
(1) C3.12, 3# 10' SNGL XARM  
(1) 15KVA TRSF (#14062)
- INSTALL-TRANSMISSION  
(1) TP70FBGLS, 70' FBGLS POLE  
(1) 115TV2.2, 115KV OPP TANG W/ POLE TOP, PORC  
(3) CL-PI-B, 556.5AAC POST INSUL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION  
(1) C3.17, 3# SNGL 10' FBGLS XARM  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
-TRANSFORMER-  
(1) TR1-A2, 1# TRANS CONN ASSY  
(1) CL-ST-B, 556.5AAC STIRRUP  
(1) DFUN2-1/2X, FUSE  
(1) T15A1, 15KVA TRSF (#\_\_\_\_\_)  
(1) SP+CL2, 1/0-4/0 SVC WEDGE CL ASSY  
(1) GR-27, POLE GND

- 13  
3007-131862
- REMOVE-TRANSMISSION  
(3) CL-PI-3, 1/OACSR POST INSUL CLAMP
- INSTALL-TRANSMISSION  
(3) CL-PI-B, 556.5 AAC POST INSUL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION  
RAISE LOWER-N TO UPPER-N  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
(1) DB111-301, 12.5KV PORC INS W/ PIN  
(3) CL-ST-B, 556.5AAC STIRRUP CLAMP  
(1) GR-27, POLE GND

- 14  
3007-131863
- REMOVE-TRANSMISSION  
(3) CL-PI-3, 1/OACSR POST INSUL CLAMP
- INSTALL-TRANSMISSION  
(3) CL-PI-B, 556.5 AAC POST INSUL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION  
RAISE LOWER-N TO UPPER-N  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
(1) DB111-301, 12.5KV PORC INS W/ PIN  
(1) GR-27, POLE GND

- 17  
3007-123160
- REMOVE-TRANSMISSION  
(3) CL-PI-3, 1/OACSR POST INSUL CLAMP
- INSTALL-TRANSMISSION  
(3) CL-PI-B, 556.5 AAC POST INSUL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION  
RAISE LOWER-N TO UPPER-N  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
(1) DB111-301, 12.5KV PORC INS W/ PIN  
(3) CL-ST-B, 556.5AAC STIRRUP  
(1) GR-27, POLE GND

- 20  
3007-124161
- REMOVE  
(1) 65' POLE  
(1) 69KV OPPOSED TANGENT  
(1) C3.12, 3# 10' SNGL XARM
- INSTALL-TRANSMISSION  
(1) TP70FBGLS, 70' FBGLS POLE  
(1) 115TV2.2, 115KV OPP TANG W/ POLE TOP, PORC  
(3) CL-PI-B, 556.5 AAC POST INSUL CLAMP  
(3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION  
(1) C3.17, 3# SNGL 10' FBGLS XARM  
(4) TY1-J, 556.5AAC SNGL TOP TIE  
(1) GR-27, POLE GND

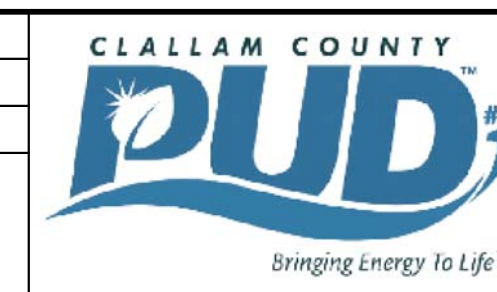
ISSUED FOR  
5/11/2018  
BIDDING

- LEGEND
- ROW CENTERLINE
  - ROW BOUNDARY
  - PAVEMENT EDGE
  - GUARD RAIL
  - GUY AND ANCHOR
  - EXISTING POLE (NO CHANGE) ○
  - REMOVE POLE ⊗
  - NEW POLE ○

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REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
1	MOVED DDE FR STK23 TO STK24 & MISC	5/18/18	BENP	BP/MH	MH	MH	
0	ISSUED FOR BIDDING	5/11/2018	BENP	BP/MH	MH	MH	

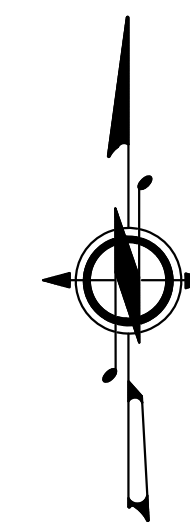
DSGN	BENP	4/17/18
SURV	JP/EB	4/17/18
STKD	*	*
SCALE:	AS NOTED	
FOR 22x34 DWG ONLY		



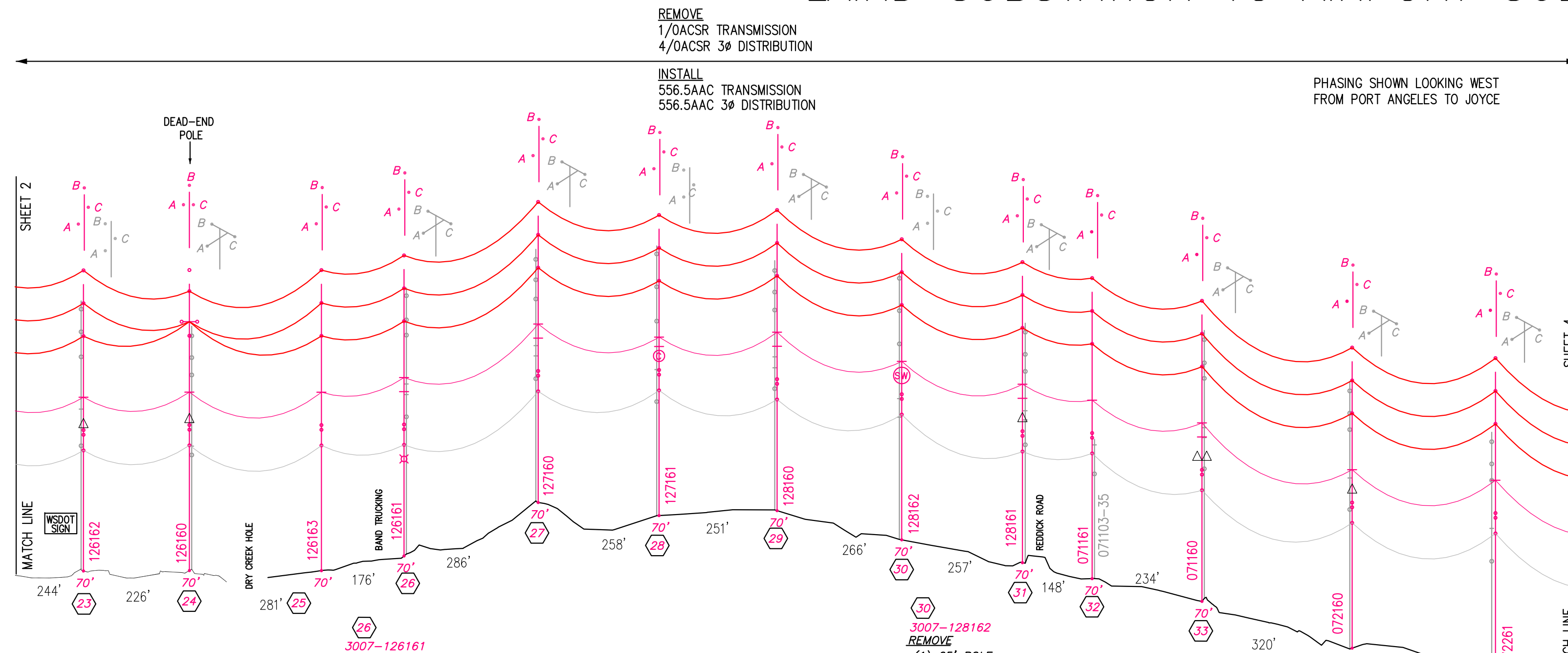
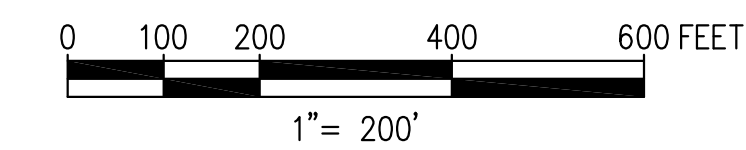
CLALLAM COUNTY PUD #1	WORK ORDER #	REV
LAIRD CORNER TO AIRPORT ROAD	16-0196	1
PLAN/PROFILE VIEW - 2	DRAWING NUMBER	
	SHEET 2 OF 4	

# TRANSMISSION LINE CONSTRUCTION PLANS

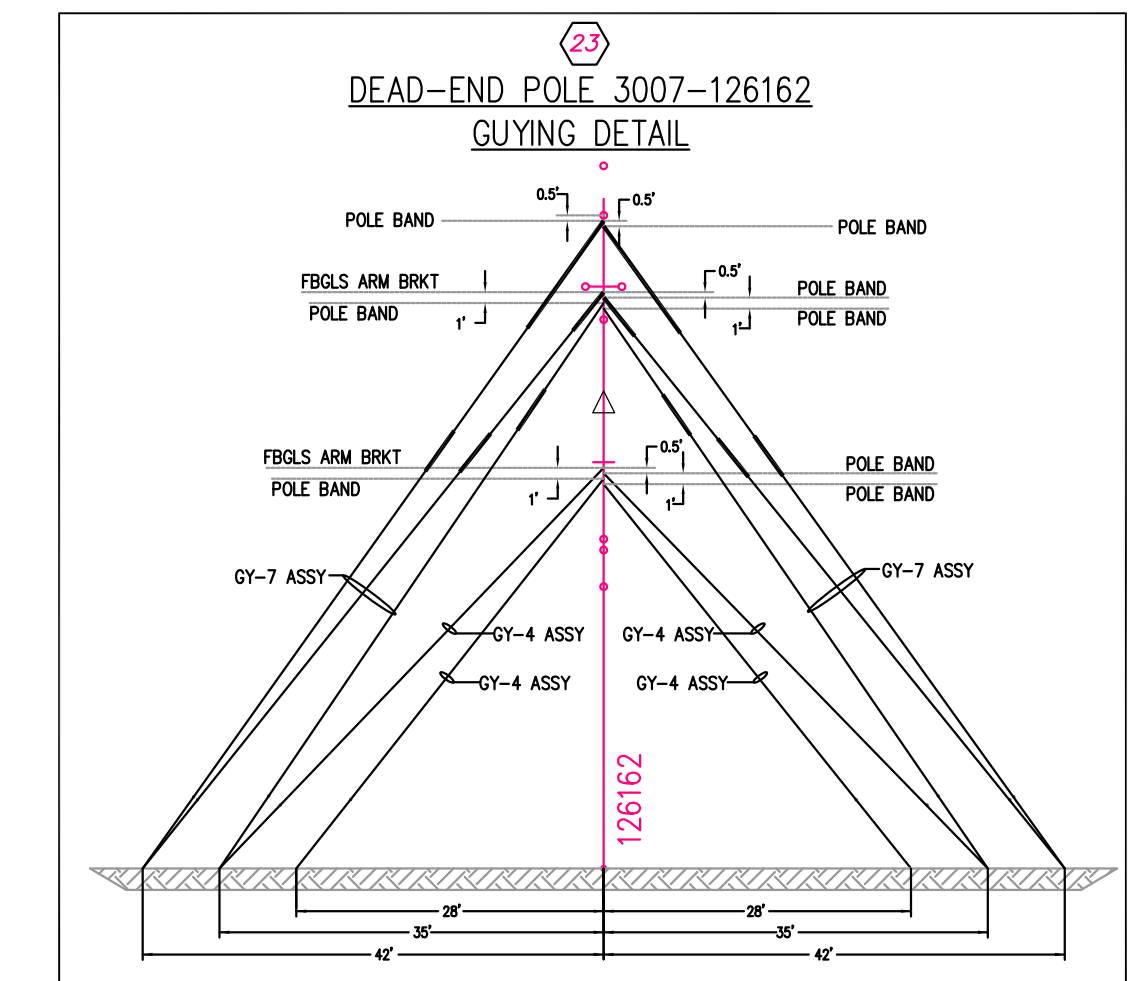
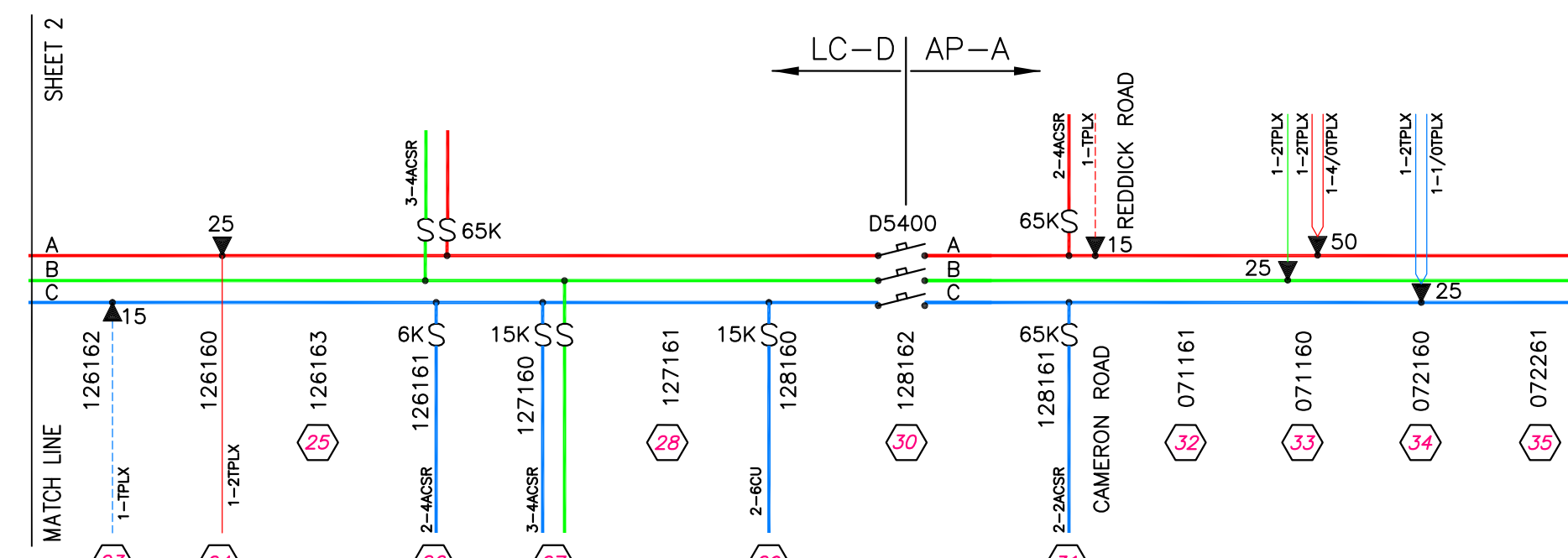
## LAIRD SUBSTATION TO AIRPORT SUBSTATION



SCALE  
HORIZONTAL: 1" = 200'  
VERTICAL: 1" = 20'



ONE-LINE DIAGRAM, THIS SHEET



ISSUED FOR  
5/11/2018  
BIDDING

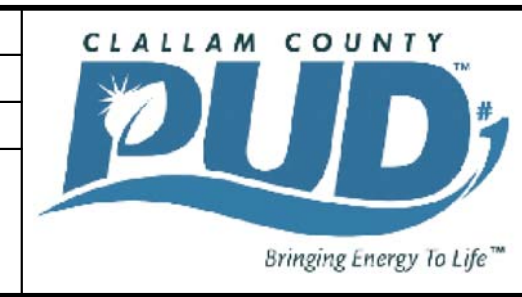
- LEGEND
- ROW CENTERLINE
  - ROW BOUNDARY
  - PAVEMENT EDGE
  - GUARD RAIL
  - GUY AND ANCHOR
  - EXISTING POLE (NO CHANGE) ○
  - REMOVE POLE ○
  - NEW POLE ○

b:\phillips\h...Transmission\16-0196\_Lairds\_Corner to Airport\_Sub\16-0196 - Design - REV\1.dwg PLAN 3 May 22, 2018 - 3:43pm

THIS DRAWING WAS PREPARED BY CLALLAM COUNTY PUD FOR A SPECIFIC PROJECT. TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT. REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH CLALLAM AND CLALLAM'S CLIENT IS GRANTED.

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD
1	MOVED DDE FR STK23 TO STK24 & MISC	5/18/18	BENP	BP/MH	MH	MH
0	ISSUED FOR BIDDING	5/11/2018	BENP	BP/MH	MH	MH
REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD

DSGN	BENP	4/17/18
SURV	JP/EB	4/17/18
STKD	*	*
SCALE:	AS NOTED	
FOR 22:34 DWG ONLY		

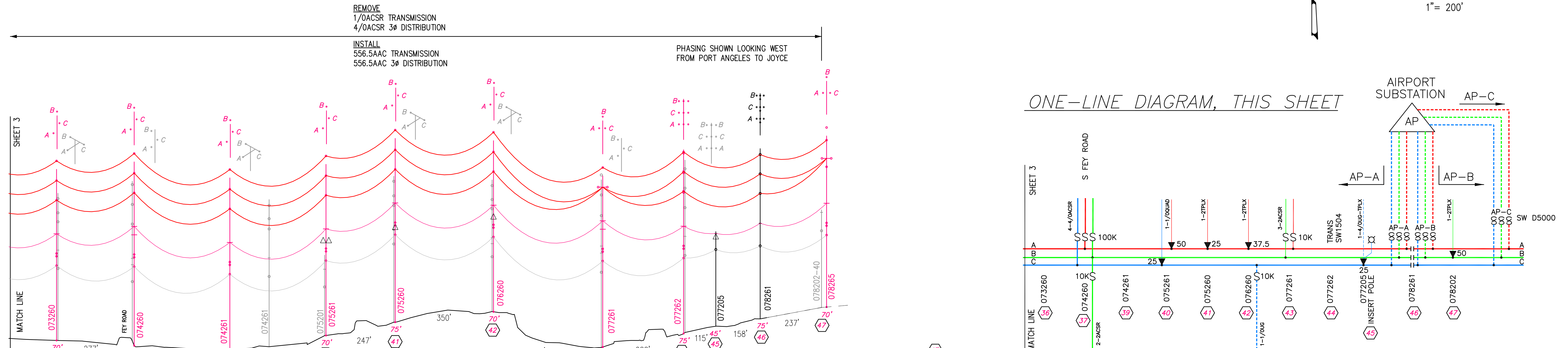
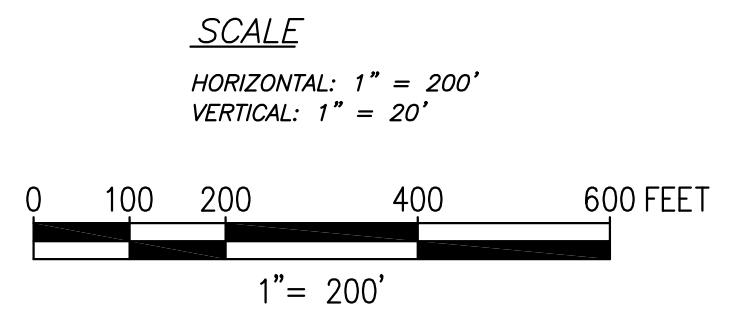
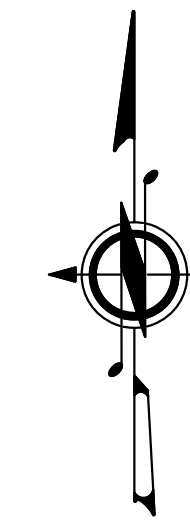


CLALLAM COUNTY PUD #1  
LAIRD CORNER TO AIRPORT ROAD  
PLAN/PROFILE VIEW - 3

WORK ORDER # 16-0196  
DRAWING NUMBER SHEET 3 OF 4

# TRANSMISSION LINE CONSTRUCTION PLANS

## LAIRD SUBSTATION TO AIRPORT SUBSTATION



ONE-LINE DIAGRAM, THIS SHEET

- 37**  
3006-074260  
**REMOVE**
- (1) 65' POLE
  - (1) 69KV OPPOSED TANGENT
  - (1) C3.01, 3# 10' SNGL XARM
  - (1) C4-3.3, 3# D.E. SNGL ARM
- INSTALL-TRANSMISSION**
- (1) TP75FBGLS, 75' FBGLS POLE
  - (1) 115TV2, 115KV OPP TANG W/ POLE TOP
  - (3) CL-P1-B, 556.5AAC POST INSUL CLAMP
  - (3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION**
- (1) C3.17, 3# SNGL 10' FBGLS XARM
  - (4) TY1-J, 556.5AAC SNGL TOP TIE
  - (1) C5-3.7, 3# DBL D.E. LOWER-N
  - 3# PRIMARY TAP -
  - (4) DDEBS4/OAS, 4/OACSR BOLTED D.E. CONN
  - (3) XB651-220, 15KV CUT-OUT ASSY
  - (1) CA-BRS, CUT OUT BRACKET
  - (3) CL-ST-B, 556.5AAC STIRRUP
  - (3) DFUN100K, FUSE
  - (4) DJUMP4/OAS, 4/OACSR JUMPER
  - (3) CL-ST-4, 4/OACSR STIRRUP
  - (1) CMC-3, 2CU TO 4/OACSR AMPACT
  - (1) CNC-10, 4/OACSR TO 4/OACSR AMPACT
  - 1# PRI TAP -
  - (2) DDEB1/OAS, #4-1/OACSR BOLTED D.E.
  - (1) XB651-220, 15KV CUT-OUT ASSY
  - (1) CA-BRS, CUT OUT BRACKET
  - (1) CL-ST-B, 556.5AAC STIRRUP
  - (1) DFUN100K, FUSE
  - (1) DJUMP2AS, 2ACSR JUMPER
  - (1) CL-ST-2, 2ACSR STIRRUP
  - (1) CMA-3, 2CU TO 2ACSR WR TAP
  - (1) +GY-SP1, 18M SPAN GUY ASSY
  - (1) +GY-4, 18M DOWN GUY ASSY
  - (1) DD160-000, 3/4" GUY SHACKLE
  - (1) GR-27, POLE GND

- 40**  
3006-075261  
**REMOVE**
- (1) 35' POLE (3006-075201)
  - (1) C3.01, 3# 10' SNGL XARM
  - (1) 50KVA TRSF (#9869)
  - (1) 25KVA TRSF (#12415)
- INSTALL-TRANSMISSION**
- (1) TP70FBGLS, 70' FBGLS POLE
  - (1) 115TV2, 115KV OPP TANG W/ POLE TOP
  - (3) CL-P1-B, 556.5AAC POST INSUL CLAMP
  - (3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION**
- (1) C3.17, 3# SNGL 10' FBGLS XARM
  - (4) TY1-J, 556.5AAC SNGL TOP TIE
- TRANSFORMER-**
- (CONNECT FOR 120/240V SECONDARY)
  - (1) TRX-2A, V# TRSF ASSY
  - (1) DDCP1/OST, 1/O CU WP
  - (1) CL-ST-B, 556.5AAC STIRRUP
  - (1) DFUNBK, FUSE
  - (1) T25A1, 25KVA TRSF (#\_\_\_\_\_)
  - (1) DDCP4/OST, 4/O CU WP
  - (1) CL-ST-B, 556.5AAC STIRRUP
  - (1) DFUN10K, FUSE
  - (1) T50A1, 50KVA TRSF (#\_\_\_\_\_)
  - (1) SP+CL2, 1/O-4/O SVC WEDGE CL ASSY
  - (1) GR-27, POLE GND

- 42**  
3006-076260  
**REMOVE**
- (1) 60' POLE
  - (1) 69KV WISHBONE
  - (1) C3.01, 3# 10' SNGL XARM
  - (1) 37.5KVA TRSF (#14344)
  - (1) RPI, 1# OH TO UG RISER ASSY
- INSTALL-TRANSMISSION**
- (1) TP70FBGLS, 70' FBGLS POLE
  - (1) 115TV2, 115KV OPP TANG W/ POLE TOP
  - (3) CL-P1-B, 556.5AAC POST INSUL CLAMP
  - (3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION**
- (1) C3.17, 3# SNGL 10' FBGLS XARM
  - (4) TY1-J, 556.5AAC SNGL TOP TIE
- TRANSFORMER-**
- (1) TR1-B2, 1# TRANS CONN ASSY
  - (1) CL-ST-B, 556.5AAC STIRRUP
  - (1) DDCP1/OST, 1/O CU WP
  - (1) CL-ST-B, 556.5AAC STIRRUP
  - (1) DFUNBK, FUSE
  - (1) T25A1, 25KVA TRSF (#\_\_\_\_\_)
  - (1) SP+CL1, #6-#2 SVC WEDGE CL ASSY
  - 1# RISER -
  - (1) RPI-SPL, 1# RISER W/ SPLICE
  - (1) CL-ST-B, 556.5AAC STIRRUP
  - (1) DFUN10K, FUSE
  - (30H) DCUCA1/O1, 1/O UG CABLE
  - (1) GR-27, POLE GND

- 44**  
3006-077262  
**REMOVE**
- (1) 70' POLE
  - (1) 69KV DBL D.E.
  - (1) C3.01, 3# 10' SNGL XARM
  - (1) RPI, 1# OH TO UG RISER ASSY
- INSTALL-TRANSMISSION**
- (1) TP75FBGLS, 75' FBGLS POLE
  - (1) 115TV2.1-A, 115KV DBL D.E.
  - (6) 6522220, 556.5AAC COMPR D.E. CONN
  - 115KV SWITCH -
  - (1) T115-SW1, 3# 115KV V-TYPE SWITCH
  - (6) DJUMP556A, 556.5AAC JUMPER
  - (6) 6522100, 556.5AAC 2-HOLE PADDLE
  - (6) CNF-13, 556.5AAC TO 556.5AAC AMPACT
- INSTALL-DISTRIBUTION**
- (1) C3.17, 3# SNGL 10' FBGLS XARM
  - (4) TY1-J, 556.5AAC SNGL TOP TIE
  - (1) GR-27, POLE GND
  - (1) GR-MATTI, SWITCHING GROUND MAT
  - (1) 3420700, GROUND GRATE

- 47**  
3006-078265  
CITY OF PA WORK  
**REMOVE**
- (1) TPLX SEC SERVICE
  - (1) DOWN GUY
- INSTALL-TRANSMISSION**
- (1) TP70FBGLS, 70' FBGLS POLE
  - (1) 115DX1, 115KV D.E. XARM W/ POLE TOP
  - (3) DJUMP556A, 556.5AAC JUMPER
  - (3) CL-P1-3, 1/OACSR POST INSL CLAMP (FOR BARE 556.5AAC W/O ARMOR ROD)
  - (3) CNF-13, 556.5AAC TO 556.5AAC AMPACT
  - (3) CNF-7, 556.5AAC TO 1/OACSR AMPACT
  - (3) 6522220, 556.5AAC COMPR D.E. CONN
  - (3) DDEA1/OAS, 1/OACSR BOLTED D.E. CONN
- GUY-**
- (2) +GY-4, 18M DOWN GUY
  - (1) TD105-007, POLE BAND SM 4-7.5"
  - (1) 144", 54", J-BALL INSULATORS (TOP TRANS)
  - (2) 2KX4", J-BALL INSULATORS (MIDDLE TRANS)
  - (16) 2101000, 18M GUY GRIP
- INSTALL-DISTRIBUTION**
- (1) C5-3.17, 3# DBL D.E. DBL 10' ARM
  - (4) DJUMP556A, 556.5AAC JUMPER
  - (4) CNF-13, 556.5AAC TO 556.5AAC AMPACT
  - (4) CNF-10, 556.5AAC TO 4/OACSR AMPACT
  - (4) DDEBS556A, 556.5AAC BOLTED D.E. CONN
  - (4) DDEA4/OAS, 4/OACSR BOLTED D.E. CONN
- TRANSFORMER-**
- (1) TR1-B2, 1# TRANS CONN ASSY
  - (1) CL-ST-B, 556.5AAC STIRRUP
  - (1) DFUNBK, FUSE
  - (1) T50A1, 50KVA TRSF (#\_\_\_\_\_)
  - (1) SP+CL1, #6-#2 SVC WEDGE CL ASSY
  - (2) +GY-4, 18M DOWN GUY
  - (1) TD105-001, POLE BAND LG 12-16"
  - (1) GR-27, POLE GND

- 36**  
3006-074260  
**REMOVE**
- (1) 60' POLE
  - (1) 69KV WISHBONE
  - (1) C3.01, 3# 10' SNGL XARM
  - (1) TP70FBGLS, 70' FBGLS POLE
  - (1) 115TV2, 115KV OPP TANG W/ POLE TOP
  - (3) CL-P1-B, 556.5AAC POST INSUL CLAMP
  - (3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION**
- (1) C3.17, 3# SNGL 10' FBGLS XARM
  - (4) TY1-J, 556.5AAC SNGL TOP TIE
- INSTALL-TRANSMISSION**
- (1) TP70FBGLS, 70' FBGLS POLE
  - (1) 115TV2, 115KV OPP TANG W/ POLE TOP
  - (3) CL-P1-B, 556.5AAC POST INSUL CLAMP
  - (3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION**
- (1) C3.17, 3# SNGL 10' FBGLS XARM
  - (4) TY1-J, 556.5AAC SNGL TOP TIE
- INSTALL-TRANSMISSION**
- (1) TP70FBGLS, 70' FBGLS POLE
  - (1) 115TV2, 115KV OPP TANG W/ POLE TOP
  - (3) CL-P1-B, 556.5AAC POST INSUL CLAMP
  - (3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION**
- (1) C3.17, 3# SNGL 10' FBGLS XARM
  - (4) TY1-J, 556.5AAC SNGL TOP TIE

- 39**  
3006-074261  
**REMOVE**
- (1) 60' POLE
  - (1) 69KV WISHBONE
  - (1) C3.01, 3# 10' SNGL XARM
  - (1) TP70FBGLS, 70' FBGLS POLE
  - (1) 115TV2, 115KV OPP TANG W/ POLE TOP
  - (3) CL-P1-B, 556.5AAC POST INSUL CLAMP
  - (3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION**
- (1) C3.17, 3# SNGL 10' FBGLS XARM
  - (4) TY1-J, 556.5AAC SNGL TOP TIE
- INSTALL-TRANSMISSION**
- (1) TP70FBGLS, 70' FBGLS POLE
  - (1) 115TV2, 115KV OPP TANG W/ POLE TOP
  - (3) CL-P1-B, 556.5AAC POST INSUL CLAMP
  - (3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION**
- (1) C3.17, 3# SNGL 10' FBGLS XARM
  - (4) TY1-J, 556.5AAC SNGL TOP TIE

- 41**  
3006-075260  
CITY OF PA WORK  
**REMOVE**
- (1) 70' POLE
  - (1) 69KV WISHBONE
  - (1) C3.01, 3# 10' SNGL XARM
  - (1) B4-3.13, V# D.E. DBL ARM
  - (2) GY-SP1, SPAN GUY
- INSTALL-TRANSMISSION**
- (1) TP70FBGLS, 70' FBGLS POLE
  - (1) 115TV3, 115KV TANG
  - (3) CL-P1-B, 556.5AAC POST INSUL CLAMP
  - (3) TY6-J, 556.5AAC ARMOR ROD
- INSTALL-DISTRIBUTION**
- (1) C3.17, 3# SNGL 10' FBGLS XARM
  - (4) TY1-J, 556.5AAC SNGL TOP TIE
- INSTALL-TRANSMISSION**
- (1) TP70FBGLS, 70' FBGLS POLE
  - (1) 115TV2, 115KV OPP TANG W/ POLE TOP
  - (3) CL-P1-B, 556.5AAC POST INSUL CLAMP
  - (3) TY6-J, 556.5 AAC ARMOR ROD
- INSTALL-DISTRIBUTION**
- (1) C3.17, 3# SNGL 10' FBGLS XARM
  - (4) TY1-J, 556.5AAC SNGL TOP TIE
- TRANSFORMER-**
- (1) TR1-A2, 1# TRANS CONN ASSY
  - (1) CL-ST-B, 556.5AAC STIRRUP
  - (1) DFUNBK, FUSE
  - (1) T25A1, 25KVA TRSF (#\_\_\_\_\_)
  - (1) SP+CL1, #6-#2 SVC WEDGE CL ASSY
  - (1) GR-27, POLE GND

- 45**  
3006-077205  
**INSTALL-DISTRIBUTION**
- (9) 69KV INSULATORS
  - (1) C5-3.3, 3# DBL D.E. LOW-N
- INSTALL-TRANSMISSION**
- (1) 115DV2.1-A, 115KV DBL D.E. VERT OPPOSED
  - (NOTE: DO NOT INSTALL SIDE POST INSULATORS)
  - (6) 6522220, 556.5AAC COMPR D.E.
- INSTALL-TRANSMISSION-SUBSTATION DROP**
- (1) 115DV1, 115KV SINGLE D.E.
  - (3) DDEA1/OAS, 1/OACSR BOLTED D.E.
  - (NOTE: ONLY INSTALL JUMPERS ON EAST TRANSMISSION LINE TO SUB-DROP)
  - (3) DJUMP1/OA, 1/OAC JUMPER
  - (3) CNF-7, 556.5AAC TO 1/OAC AMPACT
  - (3) CNB-5, 1/OAC TO 1/OACSR AMPACT
- INSTALL-DISTRIBUTION**
- (1) C5-3.17, 3# DBL D.E. UPP-N
  - (8) DDEBS556A, 556.5AAC BOLTED D.E.
  - JUMPER CONNECTION FOR NEUTRAL -
  - (1) DJUMP556A, 556.5AAC JUMPER
  - (2) DB111-301, 12.5KV PORC INS W/ PIN
  - (1) TY3-J, 556.5AAC DBL SUPPORT TIE
  - (1) CNF-13, 556.5AAC TO 556.5AAC AMPACT
  - INSTALL-DIST FEEDER RISER**
  - (6) CNF-11, 350CU-556AAC AMPACT
  - (1) GR-27, POLE GND

ISSUED FOR  
5/11/2018  
BIDDING

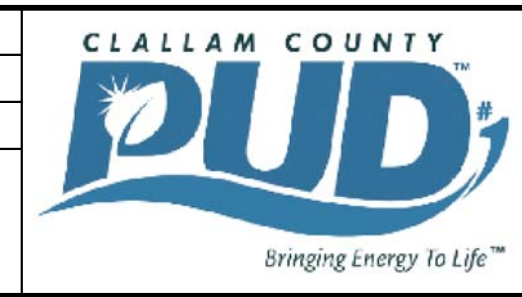
**LEGEND**

- ROW CENTERLINE
- ROW BOUNDARY
- PAVEMENT EDGE
- GUARD RAIL
- GUY AND ANCHOR
- EXISTING POLE (NO CHANGE) ○
- REMOVE POLE ○
- NEW POLE ○

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1	MOVED DDE FR STK23 TO STK24 & MISC	5/18/18	BENP	BP/MH	MH	MH
0	ISSUED FOR BIDDING	5/11/2018	BENP	BP/MH	MH	MH

DSGN	BENP	DATE
		4/17/18
SURV	JP/EB	DATE
		4/17/18
STKD	DATE	



CLALLAM COUNTY PUD #1	WORK ORDER #	REV
LAIRD CORNER TO AIRPORT ROAD	16-0196	1
PLAN VIEW/PROFILE	DRAWING NUMBER	
- 4	SHEET 4 OF 4	

b:\philip.h...Transmission\16-0196\_Laird's Corner to Airport\_Sub\16-0196 - Design - REV1.dwg PLAN 4 May 22, 2018 - 3:43pm