

# Job Estimate Face Sheet - 35217268 - E Version: 1

Project Name:	2021 WP GC 03/28	Notification:	000120047659
Address:	N/A	Order Type:	E470
City:	BELDEN	PM Order Number:	35217268
County:	Plumas County	Estimate Status:	ESTS
Applicant Contact Name:		Applicant Contact Phone:	
Job Owner Name:	[REDACTED]	ADE Name:	[REDACTED]
MAT Code(s):	08W	Estimator Name:	
Est. Start Date:	02/16/2021	Est. End Date:	07/09/2021
Const. Start Date:	10/01/2021	Const. End Date:	06/21/2022
MLX:		Prior MLX:	NONE
BA Program:			

### Job Story

Design Option:	PGE	Electric Trenching Cost:	No Elec. Trench Costs
Trenching Option:	-	Subdivision Type:	Not Subdivision
Construction Option:	PGE	Betterment:	-
Cust Owned Facility:	-		

REPLACE 453' OF 3-PHASE PRIMARY CONDUCTOR WITH 3-1/0 ACSR 12KV PRIMARY TREE WIRE CONDUCTOR, INSTALL A VIPER RECLOSER W/BYPASS SWITCH AND DISCONNECT, AND INSTALL A SWITCH IN BELDEN, CA. REQUIRED SERVICES ARE: FLAGGING,CAL TRANS, ENVIRO PERMIT, VEGETATION MANAGEMENT , TREE TRIMMING, LAND, AND SWITCHING.

### Permits

[x]Caltrans PERMITS

### Agreements

### Other Requirements

[x]Environmental Services -  
[x]Other Land Svcs -  
[x]Switching -  
[x]Traffic Control/Flagging -  
[x]Tree Trimming/Veg. Man -

Job Labor	PG&E Hours		Applicant		
	Type	Onsite	Travel	Onsite	Travel
Elec		154.5	30.6	-	-

### Financial Summary (\$)

PGE Direct Cost:	199,311	Applicant Non-Rdf Work:	-
Applicant	-	Gross Financial Cost:	279,016
Overheads & Material:	62,455	Joint Utility Net:	-
AFUDC:	1,847	Applicant Cash:	-
Install Revolving Stock:	19,423		
Total Job Cost:	283,036	Job Net:	279,016

### MAT Desc:

Wildfire Resiliency projects

### Primary Unit Desc:

Circuit Ft of Conductor

### Planned Units:

453.000

\_\_\_\_\_  
Supervisor [REDACTED]

[REDACTED]  
Lan ID

\_\_\_\_/\_\_\_\_/\_\_\_\_  
Date

# Financial Details - 35217268 - E

## Version: 1

Category	PG&E			Applicant			Totals
	Install	Remove	Subtotal	Install	Remove	Subtotal	
Direct Labor	25,351	162	25,513	-	-	-	25,513
Escalation Labor	-	-	-	-	-	-	-
Labor Overhead	49,844	332	50,176	-	-	-	50,176
Pension,Benefits,Ins	-	-	-	-	-	-	-
Labor Subtotal	75,195	494	75,689	-	-	-	75,689
Direct Material	173,798	-	173,798	-	-	-	173,798
Escalation Material	-	-	-	-	-	-	-
Material Burden	12,279	-	12,279	-	-	-	12,279
Pension,Benefits,Ins	-	-	-	-	-	-	-
Material Subtotal	186,077	-	186,077	-	-	-	186,077
Direct Other	-	-	-	-	-	-	-
Escalation Other	-	-	-	-	-	-	-
Pension,Benefits,Ins	-	-	-	-	-	-	-
Other Subtotal	-	-	-	-	-	-	-
AFUDC	1,843	4	1,847	-	-	-	1,847
Rev Stock	19,423	-	19,423	-	-	-	19,423
Total Job Cost **	282,538	498	283,036	-	4	-	283,036
Applicant Non-Rfd Work *	-	-	-	-	-	-	-
Gross	278,513	503	279,016	-	-	-	279,016
Joint Utility Net	-	-	-	-	-	-	-
Applicant Cash	-	-	-	-	-	-	-
Net	278,513	503	279,016	-	-	-	279,016

# Activity Labor Summary - 35217268 - E

## Version: 1

Activity Type	Task	Description	Std Txt Key	Crew Class	PG&E		Applicant	
					On-Site	Travel	On-Site	Travel
CONSTR	Cable & TX	Construction Services	CNSTRN	ED_OH_1	73.0	14.3	-	-
CONSTR	Cable & TX	Construction Services	CNSTRN	ED_OH_2	55.7	11.1	-	-
CONSTR	Cable & TX	Construction Services	CNSTRN	ED_OH_3	25.8	5.2	-	-
LNDRTS	Land	Land Rights Misc	LAND	LAND	94.0	-	-	-
SWTCHO	Switching	Switching Operator Service	SWITCH	ED_SWTC1	52.0	-	-	-
Total					300.5	30.6	-	-

# Activity Item Cost Summary - 35217268 - E

## Version: 1

Agent: PGE

AIN	AIN Desc	Hours	Labor	Material	RevStock	Other	Gross	JP Net
0000	INTERNAL WORK - NOT NB BETTERMENT - NON- OPTIONAL	330.7	25,512	173,803	14,989	64,297	279,015	-

# Labor & Material Detail - 35217268 - E

## Version: 1

Activity Type	PG&E		Applicant	
	On-Site	Travel	On-Site	Travel
CONSTR	155	31	-	-
LNDRTS	94	-	-	-
SWTCHO	52	-	-	-
<b>Total</b>	<b>301</b>	<b>31</b>	<b>-</b>	<b>-</b>

Agent: PGE    AIN: 0000

Qty	Unit	Code	Description	Rate	Cost	Gross	JP Net
135	FT	290290	WIRE ELEC INSL COP 1/0 AWG 600	-		-	-
6	FT	290299	WIRE ELEC INSL AL TIE 4 AWG 50	-		-	-
3	FT	290159	WIRE ELEC BARE AL 6 AWG 2 LB H	-	-	-	-
3	EA	195274	WASHER FLAT 5/8" GALV WRT STL			-	-
1	EA	181215	BRACKET CLEARANCE INSULATOR 30	-	-	-	-
3	EA	033320	WASHER SPRING CLIP GALVS 5/8"			-	-
2	EA	140237	POLE WOOD 45' CL 3 INTUMESCENT	-	-	-	-
4	EA	197146	NAIL 2-1/2" X 6 GAUGE DATING F	-	-	-	-
0	LB	197057	NAIL 1-1/2" GALVANIZED #11 RF	-	-	-	-
12	EA	373271	STRIP ALUMINUM VISIBILITY WOO			-	-
52	HRS	SWTCHO	Switching Operator Service			-	-
94	HRS	LNDRTS	Land Rights - Misc			-	-
1	EA	343747	CONTROL BECKWITH ELEC COMPLETE			-	-
2	EA	149044	COVER BOLT INSULATING SQUARE	-	-	-	-
2	EA	195275	WASHER FLAT 3/4" GALV WRT STL	-	-	-	-
1	EA	343948	RECLOSER ELECTRIC VIPER-ST SOL			-	-
3	EA	341276	SWITCH DISCONNECT 34.5KV 600A			-	-
6	EA	330316	ARRESTER SURGE 15KV RISER POLE	-	-	-	-
6	EA	305243	CONNECTOR CABLE H-TAP COP #6-#			-	-
6	EA	180081	BRACKET MOUNTING CUTOUT FIGURE			-	-
1	EA	150592	CROSSARM COMPOSITE TANGENT 9'			-	-
2	EA	560622	COVER BUSHING TRANSFORMER PRIM	-	-	-	-
18	EA	300400	CONNECTOR FIRED WEDGE # B1-A			-	-
9	EA	300408	CONNECTOR FIRED WEDGE # Y1-33			-	-
1,427	FT	301616	WIRE TREE 15KV ACSR 1/0 - 6/1			-	-
10,000	USD	L00006	Permits / Fees			-	-
50,000	USD	L00015	VEGETATION MANAGEMENT PERMIT \$			-	-
45,000	USD	L00018	ENVIRONMENTAL CONSULTANTS \$			-	-
30,000	USD	L00208	PROVIDE TRAFFIC CONTROL SERVIC			-	-
1	EA	185999	ROD ANCHOR TRIPLE EYE 1-1/4" X	-	-	-	-
1	EA	185015	ANCHOR EXPANDING GUY 12'			-	-
1	EA	180199	BRACKET POLE TOP PIN INSULATOR	-	-	-	-
1	EA	192319	BOLT MACH 5/8"DIA 14"LG GALVS	-	-	-	-
1	EA	192321	BOLT MACH 5/8"DIA 16"LG GALVS	-	-	-	-
1	EA	195297	WASHER 5/8" GALV MI 3" X 3" CU	-	-	-	-
1	EA	191064	BOLT EYE 5/8" DIA 12"LG GALVS 1	-	-	-	-
1	KT	164003	CROSSARM C-400-3 HARDWARE KIT			-	-
1	EA	180069	CROSSARM COMPOSITE 9" LIGHT DU			-	-
1	EA	140229	POLE WOOD 45' CL 4 INTUMESCENT	-	-	-	-
0	PK	373278	STRIP 2" X 6" REFLECTIVE SCOTC	-	-	-	-

Qty	Unit	Code	Description	Rate	Cost	Gross	JP Net
3	EA	186045	GUARD GUY YELLOW PLASTIC				-
2	EA	185154	ANCHOR EXPANDING ROCK 1"DIA 30				-
1	EA	140231	POLE WOOD 3/5" CL 5 INTUMESCENT				-
18	EA	300409	CONNECTOR FIRED WEDGE # Y1-38	-	-	-	-
3	EA	181118	PIN INSULATOR 5/8" DIA 1-1/2'				-
1	EA	250048	TRANSFORMER POTENTIAL 12000:12				-
3	EA	360079	FAULT INDICATOR 1-PHASE 50A-10				-
12	EA	340356	LINK EXTENSION SWITCH # L14				-
4	EA	195061	NUT SQ 3/4" DIA GALV STL 10 TP	-	-	-	-
2	EA	192990	BOLT MACH 3/4" DIA 22" LG GALVS	-	-	-	-
4	EA	192408	BOLT MACH 3/4" DIA 14" LG GALVS	-	-	-	-
2	EA	192341	BOLT MACH 3/4" DIA 16" LG GALVS	-	-	-	-
8	EA	033501	WASHER SPRING CLIP GALVS 3/4"				-
6	EA	195293	WASHER 3/4" GALVS 3" X 3" SQ C	-	-	-	-
4	EA	195298	WASHER 3/4" GALV MI 4" X 4" CU	-	-	-	-
4	EA	199017	PLATE SHEAR GALV STL 2-5/8" X				-
2	EA	343960	SWITCH OVERHEAD 25KV 900A				-
10	RL	390190	FUSION TAPE 2.0' X 36' MDM VOL				-
18	EA	180421	COVER DEAD-END UNIVERSAL # KE1				-
21	EA	180225	DEAD END WEDGE SIDE OPEN 4-4/0				-
15	EA	310055	INSULATOR DEAD-END 25KV COMPOS				-
3	EA	300402	CONNECTOR FIRED WEDGE # B1-C	-	-	-	-
42	EA	202013	CARTRIDGE BLUE SHELL # 69338-1				-
60	FT	290287	WIRE ELEC INSL COP 6 AWG 600V				-
4	EA	304790	CONNECTOR FIRED WEDGE # Y2-31	-	-	-	-
16	EA	202014	CARTRIDGE YELLOW SHELL # 69338				-
51	FT	290293	WIRE ELEC INSUL COP 600V 500 K				-
185	HRS	CONSTR	Construction Services				-
3	EA	300470	CONNECTOR FIRED WEDGE # Y2-46	-	-	-	-
6	EA	184519	DEAD-END PREFORMED #1/0 STR AL				-
7	EA	310010	INSULATOR PIN TYPE POLTHN 1" P				-
3	EA	300388	CONNECTOR FIRED WEDGE # W1-A	-	-	-	-
3	EA	300383	CONNECTOR FIRED WEDGE # B3-AA				-
6	AY	160053	DOWN GUY ASSY 7500 LBS 3/8" CA				-
1	EA	300391	CONNECTOR FIRED WEDGE # W1-D	-	-	-	-
4	EA	187013	ROD GROUND 5/8" X 8'	-	-	-	-
4	EA	187012	CLAMP GROUND ROD 5/8"				-
0	LB	197036	NAIL 10D GALVANIZED HOT DIPPED	-	-	-	-
8	EA	176016	STRAP 2-HOLE 1/2" RIGID CONDUIT	-	-	-	-
20	FT	360368	CONDUIT PLASTIC 1/2" PVC SCHED	-	-	-	-
100	FT	290406	WIRE #4 AWG PROOF PTCT GROUND	-	-	-	-
40	EA	197078	STAPLE 2" GALVANIZED STEEL				-
7	EA	300389	CONNECTOR FIRED WEDGE # W1-B	-	-	-	-
11	EA	204976	CARTRIDGE RED SHELL # 69338-2				-
25	FT	290288	WIRE ELEC INSL COP 4 AWG 600V				-
100	FT	101015	CABLE GUY 3/8" GALVANIZED STEE	-	-	-	-
6	EA	186119	DEAD END PREFORMED 3/8" STL GU	-	-	-	-
2	EA	192410	BOLT MACH 3/4" DIA 12" LG GALVS	-	-	-	-
2	EA	195288	WASHER FLAT 3/4" GALV SQ	-	-	-	-
2	EA	195310	EYELET STRAND 3/4"	-	-	-	-
2	EA	315006	INSULATOR STRAIN GUY CER LT G				-

**Plant To Be Retired - 35217268 - E  
Version: 1**

<b>Work Function</b>	<b>Work Stream</b>	<b>Component Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Cu Description</b>	<b>Year Installed</b>
REMOVE	DISTRIBUTION	Conductor	453	FT	Remove OH Dist Cond, 1-4W All Types	1934





**Version: 1**  
**ADE Report - 35217268-E**  
**Latest Calc -**

**Project Level**

**Work Agent: PGE**

AIN	Work Function	CU Qty	CU Description	Material Code	Qty	Unit	Material Description
0000	INSTALL		Flagging/Traffic Control Services				
				PL00208	1,000.00	USD	PROVIDE TRAFFIC CONTROL SERVICES
0000	INSTALL		Environmental Consultant				
				PL00018	1,000.00	USD	ENVIRONMENTAL CONSULTANTS \$
0000	INSTALL		Labor, Land Technician Hours				
0000	INSTALL		Vegetation Management Permit				
				PL00015	1,000.00	USD	VEGETATION MANAGEMENT PERMIT \$
0000	INSTALL		Switching, Mainline				
0000	INSTALL		Caltrans Encroachment Permits/Fees				
				PL00006	1,000.00	USD	Permits / Fees

**LOC\_1 D**

**LOC\_1 D - I Install Primary**

**Work Agent: PGE**

AIN	Work Function	CU Qty	CU Description	Material Code	Qty	Unit	Material Description
0000	INSTALL		DE, Side Open Wedge,4Str-4/0AL, AR or Cu				
				M180225	1.00	EA	DEAD END WEDGE SIDE OPEN 4-4/0 AAC
0000	INSTALL		Kaddas Fire Retardant Universal DE Cover				
				M180421	1.00	EA	COVER DEAD-END UNIVERSAL # KE11803
0000	INSTALL		Medium Voltage Fusion Tape, MVFT, Roll				
				M390190	1.00	RL	FUSION TAPE 2.0" X 36' MDM VOLTAGE MVFT
0000	INSTALL		Jumper, 500 Cu, Raptor Insulated Wire				
				M290293	1.00	FT	WIRE ELEC INSUL COP 600V 500 KCMIL
0000	INSTALL		Fired Wedge Conn, 1-602031-4, Y2-31				
				M202014	1.00	EA	CARTRIDGE YELLOW SHELL # 69338-4
				M304790	1.00	EA	CONNECTOR FIRED WEDGE # Y2-31
0000	INSTALL		Fired Wedge Conn, 602000, Y1-33				
				M300408	1.00	EA	CONNECTOR FIRED WEDGE # Y1-33
				M202014	1.00	EA	CARTRIDGE YELLOW SHELL # 69338-4
0000	INSTALL		Fired Wedge Conn, 1-602031-9, Y2-46				
				M202014	1.00	EA	CARTRIDGE YELLOW SHELL # 69338-4
				M300470	1.00	EA	CONNECTOR FIRED WEDGE # Y2-46
0000	INSTALL		Fired Wedge Conn, 276337-5, B3-AA				
				M300383	1.00	EA	CONNECTOR FIRED WEDGE # B3-AA
				M202013	1.00	EA	CARTRIDGE BLUE SHELL # 69338-1
0000	INSTALL		Guy, 1/2 Span, 50', 3/8", Galv, Pri				
				M315006	1.00	EA	INSULATOR STRAIN GUY CER LT

**Version: 1**  
**ADE Report - 35217268-E**  
**Latest Calc -**

AIN	Work Function	CU Qty	CU Description	Material Code	Qty	Unit	Material Description
							GRAY
				M195310	1.00	EA	EYELET STRAND 3/4"
				M195288	1.00	EA	WASHER FLAT 3/4" GALV SQ
				M192410	1.00	EA	BOLT MACH 3/4"DIA 12"LG GALVS SQ HD
				M186119	3.00	EA	DEAD END PREFORMED 3/8" STL GUY #GDE1107
				M101015	50.00	FT	CABLE GUY 3/8" GALVANIZED STEEL 250'

**LOC\_1 D - R Remove Primary**

Work Agent: PGE

AIN	Work Function	CU Qty	CU Description	Material Code	Qty	Unit	Material Description
0000	REMOVE		Remove Lead Wires, 3 Phase				

**LOC\_2 D**

**LOC\_2 D - I Install Primary**

Work Agent: PGE

AIN	Work Function	CU Qty	CU Description	Material Code	Qty	Unit	Material Description
0000	INSTALL		Ins, Pin, Poly, 1" Pin, HPI-55-4	M310010	1.00	EA	INSULATOR PIN TYPE POLTHN 1" PIN 15KV
0000	INSTALL		Pin, PT6, STL, 5/8"	M181118	1.00	EA	PIN INSULATOR 5/8" DIA 1-1/2" LG FST PT6
0000	INSTALL		Formed Slack Span DE, 1/0 Al/ACSR	M184519	1.00	EA	DEAD-END PREFORMED #1/0 STR AL/ACSR
0000	INSTALL		Jumper, 6 Cu, Raptor Insulated Wire	M290287	1.00	FT	WIRE ELEC INSL COP 6 AWG 600V 40' COIL
0000	INSTALL		Fired Wedge Conn, 600446, B1-C	M202013	1.00	EA	CARTRIDGE BLUE SHELL # 69338-1
				M300402	1.00	EA	CONNECTOR FIRED WEDGE # B1-C
0000	INSTALL		Medium Voltage Fusion Tape, MVFT, Roll	M390190	1.00	RL	FUSION TAPE 2.0" X 36' MDM VOLTAGE MVFT

**LOC\_2 D - R Remove Primary**

Work Agent: PGE

AIN	Work Function	CU Qty	CU Description	Material Code	Qty	Unit	Material Description
0000	REMOVE		Remove Lead Wires, 3 Phase				

**LOC\_3 D**

**Version: 1**  
**ADE Report - 35217268-E**  
**Latest Calc -**

**LOC\_3 D - I Install Primary**

**Work Agent: PGE**

AIN	Work Function	CU Qty	CU Description	Material Code	Qty	Unit	Material Description
0000	INSTALL		DE, Side Open Wedge,4Str-4/0AL, AR or Cu	M180225	1.00	EA	DEAD END WEDGE SIDE OPEN 4-4/0 AAC
0000	INSTALL		Kadidas Fire Retardant Universal DE Cover	M180421	1.00	EA	COVER DEAD-END UNIVERSAL # KE11803
0000	INSTALL		Medium Voltage Fusion Tape, MVFT, Roll	M390190	1.00	RL	FUSION TAPE 2.0" X 36' MDM VOLTAGE MVFT
0000	INSTALL		Jumper, 1/0 Cu, Raptor Insulated Wire	M290290	1.00	FT	WIRE ELEC INSL COP 1/0 AWG 600V 50' COIL
0000	INSTALL		Fired Wedge Conn, 600403, B1-A	M300400	1.00	EA	CONNECTOR FIRED WEDGE # B1-A
				M202013	1.00	EA	CARTRIDGE BLUE SHELL # 69338-1
0000	INSTALL		Fired Wedge Conn, 602001, Y1-38	M202013	1.00	EA	CARTRIDGE BLUE SHELL # 69338-1
				M300409	1.00	EA	CONNECTOR FIRED WEDGE # Y1-38

**LOC\_3 D - R Remove Primary**

**Work Agent: PGE**

AIN	Work Function	CU Qty	CU Description	Material Code	Qty	Unit	Material Description
0000	REMOVE		Remove Lead Wires, 3 Phase				

**LOC\_100 D**

**LOC\_100 D - I Install Primary**

**Work Agent: PGE**

AIN	Work Function	CU Qty	CU Description	Material Code	Qty	Unit	Material Description
0000	INSTALL		Conductor, 1/0ACSR, Tree Wire, 3W	M301616	3.15	FT	WIRE TREE 15KV ACSR 1/0 - 6/1 STR

**LOC\_100 D - R Remove Primary**

**Work Agent: PGE**

AIN	Work Function	CU Qty	CU Description	Material Code	Qty	Unit	Material Description
0000	REMOVE		Remove OH Dist Cond, 1-4W All Types				

**LOC\_102 D**

**LOC\_102 D - I Install Primary**

**Version: 1**  
**ADE Report - 35217268-E**  
**Latest Calc -**

Work Agent: PGE

AIN	Work Function	CU Qty	CU Description	Material Code	Qty	Unit	Material Description
0000	INSTALL		Pole, Wood, Intumescent Wrap, 45', CL3				
				M373271	3.00	EA	STRIP ALUMINUM VISIBILITY WOOD POLES
				M197057	0.08	LB	NAIL 1-1/2" GALVANIZED #11 RFG BARBED
				M197146	1.00	EA	NAIL 2-1/2" X 6 GAUGE DATING FOR POLES
				M140237	1.00	EA	POLE WOOD 45' CL 3 INTUMESCENT COVERED
0000	INSTALL		Ins, DE, Composite, PT2				
				M310055	1.00	EA	INSULATOR DEAD-END 25KV COMPOSITE
0000	INSTALL		DE, Side Open Wedge, 4Str-4/0AL, AR or Cu				
				M180225	1.00	EA	DEAD END WEDGE SIDE OPEN 4-4/0 AAC
0000	INSTALL		Ext Link, 14"				
				M340356	1.00	EA	LINK EXTENSION SWITCH # L14
0000	INSTALL		Kaddas Fire Retardant Universal DE Cover				
				M180421	1.00	EA	COVER DEAD-END UNIVERSAL # KE11803
0000	INSTALL		Medium Voltage Fusion Tape, MVFT, Roll				
				M390190	1.00	RL	FUSION TAPE 2.0" X 36' MDM VOLTAGE MVFT
0000	INSTALL		Jumper, 1/0 Cu, Raptor Insulated Wire				
				M290290	1.00	FT	WIRE ELEC INSL COP 1/0 AWG 600V 50' COIL
0000	INSTALL		Fired Wedge Conn, 600403, B1-A				
				M300400	1.00	EA	CONNECTOR FIRED WEDGE # B1-A
				M202013	1.00	EA	CARTRIDGE BLUE SHELL # 69338-1
0000	INSTALL		Fired Wedge Conn, 602001, Y1-38				
				M202013	1.00	EA	CARTRIDGE BLUE SHELL # 69338-1
				M300409	1.00	EA	CONNECTOR FIRED WEDGE # Y1-38
0000	INSTALL		BKT, 30" Insul Clearance, 1" Pin				
				M033320	1.00	EA	WASHER SPRING CLIP GALVS 5/8"
				M181215	1.00	EA	BRACKET CLEARANCE INSULATOR 30" OAL
				M195274	1.00	EA	WASHER FLAT 5/8" GALV WRT STL ROUND
				M290159	3.00	FT	WIRE ELEC BARE AL 6 AWG 2 LB HAND COIL
0000	INSTALL		Ins, Pin, Poly, 1" Pin, HPI-55-4				
				M310010	1.00	EA	INSULATOR PIN TYPE POLTHN 1" PIN 15KV
0000	INSTALL		Tie Wire, #4 Soft Drawn Insulated Al				
				M290299	6.00	FT	WIRE ELEC INSL AL TIE 4 AWG 50 FT COIL
0000	INSTALL		SW, Manual, USB, Hookstick, Exc 21KV-AA				
				M343960	1.00	EA	SWITCH OVERHEAD 25KV 900A
0000	INSTALL		MISC HDWR, SW, Hookstick				
				M199017	2.00	EA	PLATE SHEAR GALV STL 2-5/8" X 13/16" H
				M195298	2.00	EA	WASHER 3/4" GALV MI 4" X 4" CURVED

**Version: 1**  
**ADE Report - 35217268-E**  
**Latest Calc -**

			M195293	2.00	EA	WASHER 3/4" GALVS 3" X 3" SQ CURVED
			M033501	3.00	EA	WASHER SPRING CLIP GALVS 3/4"
			M192341	1.00	EA	BOLT MACH 3/4"DIA 16"LG GALVS SQ HD
			M192408	1.00	EA	BOLT MACH 3/4"DIA 14"LG GALVS SQ HD
			M192990	1.00	EA	BOLT MACH 3/4"DIA 22"LG GALVS SQ HD
			M195061	2.00	EA	NUT SQ 3/4" DIA GALV STL 10 TPI
0000	INSTALL	Potential TX, Oil, Outdoor, 12kV				
			M250048	1.00	EA	TRANSFORMER POTENTIAL 12000:120V
			M560622	2.00	EA	COVER BUSHING TRANSFORMER PRIMARY
0000	INSTALL	XArm, 9', Composite Tangent				
			M150592	1.00	EA	CROSSARM COMPOSITE TANGENT 9'
0000	INSTALL	BKT, XArm MTG for C/O				
			M180081	1.00	EA	BRACKET MOUNTING CUTOUT FIGURE 3
0000	INSTALL	Surge Arrester, ABB POLIM, 15kV, Riser CL				
			M305243	1.00	EA	CONNECTOR CABLE H-TAP COP #6-#4
			M330316	1.00	EA	ARRESTER SURGE 15KV RISER POLE
0000	INSTALL	Jumper, 4 Cu, Raptor Insulated Wire				
			M290288	1.00	FT	WIRE ELEC INSL COP 4 AWG 600V 40' RL
0000	INSTALL	Fired Wedge Conn, 277060-2, R1-B				
			M204976	1.00	EA	CARTRIDGE RED SHELL # 69338-2
			M300389	1.00	EA	CONNECTOR FIRED WEDGE # W1-B
0000	INSTALL	Disconnect, Part 57H, 600A on Equip, 3EA				
			M341276	3.00	EA	SWITCH DISCONNECT 34.5KV 600A OUTDOOR
0000	INSTALL	Jumper, 6 Cu, Raptor Insulated Wire				
			M290287	1.00	FT	WIRE ELEC INSL COP 6 AWG 600V 40' COIL
0000	INSTALL	Recloser PKG, G&W Viper ST, 27kV Non-AA				
			M343948	1.00	EA	RECLOSER ELECTRIC VIPER-ST SOLID
0000	INSTALL	Misc HDWR, G&W Viper ST Recloser				
			M033501	2.00	EA	WASHER SPRING CLIP GALVS 3/4"
			M195293	2.00	EA	WASHER 3/4" GALVS 3" X 3" SQ CURVED
			M195275	2.00	EA	WASHER FLAT 3/4" GALV WRT STL ROUND
			M192408	2.00	EA	BOLT MACH 3/4"DIA 14"LG GALVS SQ HD
			M149044	2.00	EA	COVER BOLT INSULATING SQUARE
0000	INSTALL	Recloser Control, Beckwith 42Pin Complete				
			M343747	1.00	EA	CONTROL BECKWITH ELEC COMPLETE 42-PIN LR
0000	INSTALL	PPC-PGW GRD ASM w/8' PVC MLDG				
			M197078	20.00	EA	STAPLE 2" GALVANIZED STEEL
			M290406	50.00	FT	WIRE #4 AWG PROOF PTCT GROUND COPPER
			M360368	10.00	FT	CONDUIT PLASTIC 1/2" PVC

**Version: 1**  
**ADE Report - 35217268-E**  
**Latest Calc -**

		SCHEDULE 40			
		M176016	4.00	EA	STRAP 2-HOLE 1/2" RIGID CONDUIT
		M197036	0.11	LB	NAIL 10D GALVANIZED HOT DIPPED COM WIRE
0000	INSTALL	GRD Rod, 5/8"x8'			
		M187012	1.00	EA	CLAMP GROUND ROD 5/8"
		M187013	1.00	EA	ROD GROUND 5/8" X 8'
0000	INSTALL	Fired Wedge Conn, 277060-4, R1-D			
		M204976	1.00	EA	CARTRIDGE RED SHELL # 69338-2
		M300391	1.00	EA	CONNECTOR FIRED WEDGE # W1-D

**LOC\_103 D**

**LOC\_103 D - I Install Primary**

**Work Agent: PGE**

AIN	Work Function	CU Qty	CU Description	Material Code	Qty	Unit	Material Description
0000	INSTALL		Pole, Wood, Intumescent Wrap, 45', CL3	M373271	3.00	EA	STRIP ALUMINUM VISIBILITY WOOD POLES
				M197057	0.08	LB	NAIL 1-1/2" GALVANIZED #11 RFG BARBED
				M197146	1.00	EA	NAIL 2-1/2" X 6 GAUGE DATING FOR POLES
				M140237	1.00	EA	POLE WOOD 45' CL 3 INTUMESCENT COVERED
0000	INSTALL		Ins, DE, Composite, PT2	M310055	1.00	EA	INSULATOR DEAD-END 25KV COMPOSITE
0000	INSTALL		DE, Side Open Wedge, 4Str-4/0AL, AR or Cu	M180225	1.00	EA	DEAD END WEDGE SIDE OPEN 4-4/0 AAC
0000	INSTALL		Kaddas Fire Retardant Universal DE Cover	M180421	1.00	EA	COVER DEAD-END UNIVERSAL # KE11803
0000	INSTALL		Medium Voltage Fusion Tape, MVFT, Roll	M390190	1.00	RL	FUSION TAPE 2.0" X 36' MDM VOLTAGE MVFT
0000	INSTALL		Jumper, 1/0 Cu, Raptor Insulated Wire	M290290	1.00	FT	WIRE ELEC INSL COP 1/0 AWG 600V 50' COIL
0000	INSTALL		Fired Wedge Conn, 600403, B1-A	M300400	1.00	EA	CONNECTOR FIRED WEDGE # B1-A
				M202013	1.00	EA	CARTRIDGE BLUE SHELL # 69338-1
0000	INSTALL		Fired Wedge Conn, 277060-1, R1-A	M204976	1.00	EA	CARTRIDGE RED SHELL # 69338-2
				M300388	1.00	EA	CONNECTOR FIRED WEDGE # W1-A
0000	INSTALL		Fired Wedge Conn, 602001, Y1-38	M202013	1.00	EA	CARTRIDGE BLUE SHELL # 69338-1
				M300409	1.00	EA	CONNECTOR FIRED WEDGE # Y1-38
0000	INSTALL		SW, Manual, USB, Hookstick, Exc 21kV-AA	M343960	1.00	EA	SWITCH OVERHEAD 25KV 900A
0000	INSTALL		MISC HDWR, SW, Hookstick				

**Version: 1**  
**ADE Report - 35217268-E**  
**Latest Calc -**

			M199017	2.00	EA	PLATE SHEAR GALV STL 2-5/8" X 13/16" H
			M195298	2.00	EA	WASHER 3/4" GALV MI 4" X 4" CURVED
			M195293	2.00	EA	WASHER 3/4" GALVS 3" X 3" SQ CURVED
			M033501	3.00	EA	WASHER SPRING CLIP GALVS 3/4"
			M192341	1.00	EA	BOLT MACH 3/4"DIA 16"LG GALVS SQ HD
			M192408	1.00	EA	BOLT MACH 3/4"DIA 14"LG GALVS SQ HD
			M192990	1.00	EA	BOLT MACH 3/4"DIA 22"LG GALVS SQ HD
			M195061	2.00	EA	NUT SQ 3/4" DIA GALV STL 10 TPI
0000	INSTALL	Ext Link, 14"				
			M340356	1.00	EA	LINK EXTENSION SWITCH # L14
0000	INSTALL	FLT IND,50A-1200A 1PH AUTO ADJ				
			M360079	1.00	EA	FAULT INDICATOR 1-PHASE 50A-1000A
0000	INSTALL	Anchor, Rock, 1"x 30" Rod, 18M				
			M185154	1.00	EA	ANCHOR EXPANDING ROCK 1"DIA 30" L
0000	INSTALL	Labor, Dig Anchor Hole By Hand				
0000	INSTALL	Down Guy Asm, 3/8" Galv				
			M160053	1.00	AY	DOWN GUY ASSY 7500 LBS 3/8" CA
0000	INSTALL	Guy Marker, Yellow, 8', w/Vis Strip				
			M186045	1.00	EA	GUARD GUY YELLOW PLASTIC
			M373278	0.12	PK	STRIP 2" X 6" REFLECTIVE SCOTCHLITE

LOC\_105 D

LOC\_105 D - I Install Primary

Work Agent: PGE

AIN	Work Function	CU Qty	CU Description	Material Code	Qty	Unit	Material Description
0000	INSTALL		Pole, Wood, Intumescent Wrap, 35', CL5				
				M140231	1.00	EA	POLE WOOD 35' CL 5 INTUMESCENT COVERED
				M197146	1.00	EA	NAIL 2-1/2" X 6 GAUGE DATING FOR POLES
				M197057	0.08	LB	NAIL 1-1/2" GALVANIZED #11 RFG BARBED
				M373271	3.00	EA	STRIP ALUMINUM VISIBILITY WOOD POLES
0000	INSTALL		Guy, 1/2 Span, 50', 3/8", Galv, Pri				
				M315006	1.00	EA	INSULATOR STRAIN GUY CER LT GRAY
				M195310	1.00	EA	EYELET STRAND 3/4"
				M195288	1.00	EA	WASHER FLAT 3/4" GALV SQ
				M192410	1.00	EA	BOLT MACH 3/4"DIA 12"LG GALVS SQ HD
				M186119	3.00	EA	DEAD END PREFORMED 3/8" STL GUY #GDE1107
				M101015	50.00	FT	CABLE GUY 3/8" GALVANIZED STEEL





**Version: 1**  
**ADE Report - 35217268-E**  
**Latest Calc -**

			M195274	2.00	EA	WASHER FLAT 5/8" GALV WRT STL ROUND
			M192321	1.00	EA	BOLT MACH 5/8"DIA 16"LG GALVS SQ HD
			M192319	1.00	EA	BOLT MACH 5/8"DIA 14"LG GALVS HW HD
			M180199	1.00	EA	BRACKET POLE TOP PIN INSULATOR 18"
			M033320	2.00	EA	WASHER SPRING CLIP GALVS 5/8"
0000	INSTALL	Formed Slack Span DE, 1/0 Al/ACSR				
			M184519	1.00	EA	DEAD-END PREFORMED #1/0 STR AL/ACSR
0000	INSTALL	Jumper, 1/0 Cu, Raptor insulated Wire				
			M290290	1.00	FT	WIRE ELEC INSL COP 1/0 AWG 600V 50' COIL
0000	INSTALL	Fired Wedge Conn, 600403, B1-A				
			M300400	1.00	EA	CONNECTOR FIRED WEDGE # B1-A
			M202013	1.00	EA	CARTRIDGE BLUE SHELL # 69338-1
0000	INSTALL	Down Guy Asm, 3/8" Galv				
			M160053	1.00	AY	DOWN GUY ASSY 7500 LBS 3/8" CA
0000	INSTALL	Anchor, Expanding, 1-1/4"x10' Rod, 20M				
			M185015	1.00	EA	ANCHOR EXPANDING GUY 12"
			M185999	1.00	EA	ROD ANCHOR TRIPLE EYE 1-1/4" X 10'
0000	INSTALL	Guy Marker, Yellow, 8', w/Vis Strip				
			M186045	1.00	EA	GUARD GUY YELLOW PLASTIC
			M373278	0.12	PK	STRIP 2" X 6" REFLECTIVE SCOTCHLITE