

**Tax Jurisdiction: WA02900290, Skagit County Unincorporated, 8.2%**

**Order Type:** CET1 Capital Electric - Trans & HV Dist Impr  
**Activity Type:** TIM Transmission Improvement  
**Superior Order:** 111016865  
**Description:** 3505E076 SEDRO 230-115 TRF BANK 2 INSTAL  
**Main Work Center:** PMPDPM10-DISTRIBUTION PM 10 KEVIN O'CONNOR  
**Functional Loc:** TSB-SED SEDRO WOOLLEY  
**Equipment:** -  
**Person Resp:** ZKOCONN Kevin O'Connor

**Basic Start:** 02/01/2012  
**Basic End:** 09/12/2012  
**Priority:**  
**Completion Date:** \_\_\_\_\_  
**Emp. No.:** \_\_\_\_\_

**Map#:** 3505E076

**Order Long Text:**  
Settle to 111016865. For materials only.

**Operation: 0020 CTR - 115KV UNDERGROUND MATERIALS - Charge Time**

**Work Center:** SUBMNT SUB STATION MAINTENANCE

**Start:** 02/01/2012 **Start Date:** \_\_\_\_\_

**Internal Work:** 0.0 H **Duration:** 0.0 H

**End:** 02/01/2012 **End Date:** \_\_\_\_\_

WIP Material	WIP Description	Sloc	Est. Qty UOM	Actual Qty
8482200	WIRE 4/0SD 7STR BARE CU	1500	1,100.0 FT	_____
Reg Material	Reg Description	Sloc	Est. Qty UOM	Actual Qty
1190000	ANCHOR EXPANSION 3/8" WEDGE	1500	8.0 EA	_____
7420301	MOLD CADWELD 4/0HOR TEE	1500	2.0 EA	_____
7420302	MOLD CADWELD GROUND ROD	1500	1.0 EA	_____
7420303	WELD METAL CADWELD TEE	1500	80.0 EA	_____
7420304	WELD METAL CADWELD GRDR	1500	4.0 EA	_____
7420306	CLEANER MOLD CADWELD	1500	1.0 EA	_____
7420307	BATTERY STARTER CADWELD	1500	2.0 EA	_____
7420308	CLAMP HANDLE MLD CADWEL	1500	2.0 EA	_____
7420310	BAFFLE WITH COVER	1500	2.0 EA	_____
7420311	MOLD CADWELD 4/0 CROSS	1500	1.0 EA	_____
7420315	WELD METAL CADWELD CROSS	1500	10.0 EA	_____
7624500	BELL END 2" IPS PVC DB-120 CONDUIT	1500	4.0 EA	_____
7624700	BELL END 4" IPS PVC DB-120 CONDUIT	1500	4.0 EA	_____
7631300	CHANNEL-STRUT 1-5/8" HDG STEEL W/SLOTS	1500	8.0 FT	_____
7632400	CLAMP 2" PIPE/CONDUIT SUPPORT STRUT	1500	4.0 EA	_____
7642200	CONDUIT PVC, 2" IPS, SCH 80	1500	500.0 FT	_____
7642400	CONDUIT PVC, 4" IPS, SCH 80	1500	250.0 FT	_____
7643000	PLUG CAP 2" CONDUIT POLY	1500	4.0 EA	_____
7643200	PLUG CAP 4" CONDUIT POLY	1500	2.0 EA	_____
7643502	SEALING FOAM CONDUIT	1500	5.0 EA	_____
7643700	FISHLINE CABLE PULLING 5/8"	1500	900.0 FT	_____
7645201	BEND 2" SCH 80 90DEG 30RAD PVC	1500	9.0 EA	_____
7645202	BEND 2" SCH 80 45DEG 24RAD PVC	1500	6.0 EA	_____
7645203	BEND 2" SCH 80 22DEG 24RAD PVC	1500	4.0 EA	_____

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Bulk Material	Bulk Description	Sloc	Est. Qty UOM	Actual Qty
7645401	BEND 4" SCH 80 90DEG 36RAD PVC	1500	4.0 EA	_____
7645402	BEND 4" SCH 80 45DEG 48RAD PVC	1500	2.0 EA	_____
7645403	BEND 4" SCH 80 22DEG 48RAD PVC	1500	2.0 EA	_____
9022300	ROD GROUND 3/4" X 8' CU	1500	4.0 EA	_____
9996264	IGNITORS, WELD METAL, CADWELD	1500	120.0 EA	_____
9997027	WIRE 19-#9 COPPERWELD	1500	450.0 FT	_____
9997134	MOLD 4/0 HOR TEE TO 19/9 COPPERWELD	1500	2.0 EA	_____
9997431	BEND 4" SCH 80 11-1/4DEG 24RAD PVC	1500	2.0 EA	_____
7631100	CEMENT SOLVENT PVC 40-90F DEG	1500	5.0 QT	_____

Completed By: \_\_\_\_\_ Notes / Variance: \_\_\_\_\_

**Operation: 0030 CTR - 230KV UNDERGROUND MATERIALS - Charge Time**

Work Center: SUBMNT SUB STATION MAINTENANCE Start: 02/01/2012 Start Date: \_\_\_\_\_  
Internal Work: 0.0 H Duration: 0.0 H End: 02/01/2012 End Date: \_\_\_\_\_

WIP Material	WIP Description	Sloc	Est. Qty UOM	Actual Qty
8482200	WIRE 4/0SD 7STR BARE CU	1500	2,400.0 FT	_____
1190000	ANCHOR EXPANSION 3/8" WEDGE	1500	14.0 EA	_____
4652700	COMPOUND COLD ZINC GALV	1500	5.0 EA	_____
7420301	MOLD CADWELD 4/0HOR TEE	1500	1.0 EA	_____
7420302	MOLD CADWELD GROUND ROD	1500	1.0 EA	_____
7420303	WELD METAL CADWELD TEE	1500	80.0 EA	_____
7420304	WELD METAL CADWELD GRDR	1500	3.0 EA	_____
7420306	CLEANER MOLD CADWELD	1500	2.0 EA	_____
7420307	BATTERY STARTER CADWELD	1500	2.0 EA	_____
7420308	CLAMP HANDLE MLD CADWEL	1500	2.0 EA	_____
7420310	BAFFLE WITH COVER	1500	2.0 EA	_____
7420311	MOLD CADWELD 4/0 CROSS	1500	2.0 EA	_____
7420315	WELD METAL CADWELD CROSS	1500	30.0 EA	_____
7624500	BELL END 2" IPS PVC DB-120 CONDUIT	1500	13.0 EA	_____
7631300	CHANNEL-STRUT 1-5/8" HDG STEEL W/SLOTS	1500	7.0 FT	_____
7632400	CLAMP 2" PIPE/CONDUIT SUPPORT STRUT	1500	5.0 EA	_____
7633400	CLAMP 4" PIPE/CONDUIT SUPPORT STRUT	1500	4.0 EA	_____
7642200	CONDUIT PVC, 2" IPS, SCH 80	1500	1,300.0 FT	_____
7642400	CONDUIT PVC, 4" IPS, SCH 80	1500	40.0 FT	_____
7643000	PLUG CAP 2" CONDUIT POLY	1500	13.0 EA	_____
7643200	PLUG CAP 4" CONDUIT POLY	1500	4.0 EA	_____
7643502	SEALING FOAM CONDUIT	1500	10.0 EA	_____

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7643700	FISHLINE CABLE PULLING 5/8"	1500	1,200.0 FT	_____
7643800	COUPLING 2" SCH 80 PVC CONDUIT	1500	3.0 EA	_____
7645201	BEND 2" SCH 80 90DEG 30RAD PVC	1500	25.0 EA	_____
7645202	BEND 2" SCH 80 45DEG 24RAD PVC	1500	8.0 EA	_____
7645404	BEND 4" SCH 80 90DEG 24RAD PVC	1500	8.0 EA	_____
7647000	FITTING STRUT 3 HOLE 90 DEG LONG	1500	4.0 EA	_____
9022300	ROD GROUND 3/4" X 8' CU	1500	3.0 EA	_____
9996264	IGNITORS, WELD METAL, CADWELD	1500	150.0 EA	_____
9997027	WIRE 19-#9 COPPERWELD	1500	1,500.0 FT	_____
9997134	MOLD 4/0 HOR TEE TO 19/9 COPPERWELD	1500	3.0 EA	_____
<b>Bulk Material</b>	<b>Bulk Description</b>	<b>Sloc</b>	<b>Est. Qty UOM</b>	<b>Actual Qty</b>
7631100	CEMENT SOLVENT PVC 40-90F DEG	1500	5.0 QT	_____

**Completed By:** \_\_\_\_\_ **Notes / Variance:** \_\_\_\_\_

**Operation: 1912 D-14165 115KV CONDUIT MATERIALS**

**- Charge Time**

**Work Center:** SUBMNT SUB STATION MAINTENANCE

**Start:** 02/01/2012 **Start Date:** \_\_\_\_\_

**Internal Work:** 0.0 H **Duration:** 0.0 H

**End:** 02/01/2012 **End Date:** \_\_\_\_\_

<b>WIP Material</b>	<b>WIP Description</b>	<b>Sloc</b>	<b>Est. Qty UOM</b>	<b>Actual Qty</b>
8521300	WIRE 9 4C CONTROL CABLE	1500	7,400.0 FT	_____
8526800	WIRE 12 16CONTROL CABLE	1500	8,100.0 FT	_____
8631100	CABLE#6 7ST 3C 600V UG	1500	2,080.0 FT	_____
8631300	WIRE 1/0 19ST 3C600V UG	1500	2,700.0 FT	_____
8631500	WIRE 4/0 19ST 3C600V UG	1500	600.0 FT	_____
<b>Reg Material</b>	<b>Reg Description</b>	<b>Sloc</b>	<b>Est. Qty UOM</b>	<b>Actual Qty</b>
1190000	ANCHOR EXPANSION 3/8" WEDGE	1500	14.0 EA	_____
2513300	BEND 4" 90 DEGREE STEEL 36" RADIUS	1500	5.0 EA	_____
4652700	COMPOUND COLD ZINC GALV	1500	5.0 EA	_____
4652700	COMPOUND COLD ZINC GALV	1500	5.0 EA	_____
7621200	ADAPTER 2" IPS FEML PVC TO STEEL DB-120	1500	2.0 EA	_____
7621400	ADAPTER 4" IPS FEML PVC TO STEEL DB-120	1500	6.0 EA	_____
7624500	BELL END 2" IPS PVC DB-120 CONDUIT	1500	5.0 EA	_____
7624600	BELL END 3" IPS PVC DB-120 CONDUIT	1500	4.0 EA	_____
7624700	BELL END 4" IPS PVC DB-120 CONDUIT	1500	14.0 EA	_____
7631300	CHANNEL-STRUT 1-5/8" HDG STEEL W/SLOTS	1500	4.0 FT	_____
7632400	CLAMP 2" PIPE/CONDUIT SUPPORT STRUT	1500	2.0 EA	_____
7633300	CLAMP 3" PIPE/CONDUIT SUPPORT STRUT	1500	2.0 EA	_____
7633400	CLAMP 4" PIPE/CONDUIT SUPPORT STRUT	1500	6.0 EA	_____
7642200	CONDUIT PVC, 2" IPS, SCH 80	1500	950.0 FT	_____
7642300	CONDUIT PVC, 3" IPS, SCH 80	1500	200.0 FT	_____

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7642400	CONDUIT PVC, 4" IPS, SCH 80	1500	1,600.0 FT	_____
7643000	PLUG CAP 2" CONDUIT POLY	1500	5.0 EA	_____
7643200	PLUG CAP 4" CONDUIT POLY	1500	9.0 EA	_____
7643502	SEALING FOAM CONDUIT	1500	10.0 EA	_____
7643502	SEALING FOAM CONDUIT	1500	10.0 EA	_____
7643700	FISHLINE CABLE PULLING 5/8"	1500	500.0 FT	_____
7643700	FISHLINE CABLE PULLING 5/8"	1500	500.0 FT	_____
7645201	BEND 2" SCH 80 90DEG 30RAD PVC	1500	14.0 EA	_____
7645202	BEND 2" SCH 80 45DEG 24RAD PVC	1500	9.0 EA	_____
7645203	BEND 2" SCH 80 22DEG 24RAD PVC	1500	5.0 EA	_____
7645301	BEND 3" SCH 80 90DEG 36RAD PVC	1500	4.0 EA	_____
7645302	BEND 3" SCH 80 45DEG 30RAD PVC	1500	4.0 EA	_____
7645401	BEND 4" SCH 80 90DEG 36RAD PVC	1500	16.0 EA	_____
7645402	BEND 4" SCH 80 45DEG 48RAD PVC	1500	4.0 EA	_____
7645403	BEND 4" SCH 80 22DEG 48RAD PVC	1500	4.0 EA	_____
7645404	BEND 4" SCH 80 90DEG 24RAD PVC	1500	2.0 EA	_____
9996291	BEND 2" 90 DEGREE STEEL 24" RADIUS	1500	2.0 EA	_____
9997431	BEND 4" SCH 80 11-1/4DEG 24RAD PVC	1500	4.0 EA	_____
<b>Bulk Material</b>	<b>Bulk Description</b>	<b>Sloc</b>	<b>Est. Qty UOM</b>	<b>Actual Qty</b>
7631100	CEMENT SOLVENT PVC 40-90F DEG	1500	5.0 QT	_____
7631100	CEMENT SOLVENT PVC 40-90F DEG	1500	5.0 QT	_____

**Completed By:** \_\_\_\_\_ **Notes / Variance:** \_\_\_\_\_

**Operation: 1922 D-14164 GROUNDING MATERIALS**

**- Charge Time**

**Work Center:** SUBMNT SUB STATION MAINTENANCE

**Start:** 02/01/2012 **Start Date:** \_\_\_\_\_

**Internal Work:** 0.0 H **Duration:** 0.0 H

**End:** 02/01/2012 **End Date:** \_\_\_\_\_

<b>WIP Material</b>	<b>WIP Description</b>	<b>Sloc</b>	<b>Est. Qty UOM</b>	<b>Actual Qty</b>
8454500	WIRE 4/0 STR XHHW 600VC	1500	120.0 FT	_____
8482200	WIRE 4/0SD 7STR BARE CU	1500	2,800.0 FT	_____
<b>Reg Material</b>	<b>Reg Description</b>	<b>Sloc</b>	<b>Est. Qty UOM</b>	<b>Actual Qty</b>
7420301	MOLD CADWELD 4/0HOR TEE	1500	5.0 EA	_____
7420301	MOLD CADWELD 4/0HOR TEE	1500	2.0 EA	_____
7420302	MOLD CADWELD GROUND ROD	1500	2.0 EA	_____
7420306	CLEANER MOLD CADWELD	1500	2.0 EA	_____
7420307	BATTERY STARTER CADWELD	1500	2.0 EA	_____
7420308	CLAMP HANDLE MLD CADWEL	1500	2.0 EA	_____
7420311	MOLD CADWELD 4/0 CROSS	1500	2.0 EA	_____
9996264	IGNITORS, WELD METAL, CADWELD	1500	150.0 EA	_____
9997027	WIRE 19-#9 COPPERWELD	1500	400.0 FT	_____

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9997134	MOLD 4/0 HOR TEE TO 19/9 COPPERWELD	1500	2.0 EA	_____
9998512	MOLD CADWELD 4/0 RUN TO 500 MCM TAP TEE	1500	1.0 EA	_____

Completed By: \_\_\_\_\_ Notes / Variance: \_\_\_\_\_

**Operation: 2002 AD19408 CADWELD T CONNECTION - Charge Time**

Work Center: SUBMNT SUB STATION MAINTENANCE Start: 02/01/2012 Start Date: \_\_\_\_\_

Internal Work: 0.0 Duration: 0.0 End: 02/01/2012 End Date: \_\_\_\_\_

Reg Material	Reg Description	Sloc	Est. Qty UOM	Actual Qty
7420303	WELD METAL CADWELD TEE	1500	80.0 EA	_____

Completed By: \_\_\_\_\_ Notes / Variance: \_\_\_\_\_

**Operation: 2022 AD19410 CADWELD HOZ CABLE TO GND ROD - Charge Time**

Work Center: SUBMNT SUB STATION MAINTENANCE Start: 02/01/2012 Start Date: \_\_\_\_\_

Internal Work: 0.0 Duration: 0.0 End: 02/01/2012 End Date: \_\_\_\_\_

Reg Material	Reg Description	Sloc	Est. Qty UOM	Actual Qty
7420304	WELD METAL CADWELD GRDR	1500	10.0 EA	_____
9022300	ROD GROUND 3/4" X 8' CU	1500	10.0 EA	_____

Completed By: \_\_\_\_\_ Notes / Variance: \_\_\_\_\_

**Operation: 2042 AD19412 CADWELD CROSS CONNECTION - Charge Time**

Work Center: SUBMNT SUB STATION MAINTENANCE Start: 02/01/2012 Start Date: \_\_\_\_\_

Internal Work: 0.0 Duration: 0.0 End: 02/01/2012 End Date: \_\_\_\_\_

Reg Material	Reg Description	Sloc	Est. Qty UOM	Actual Qty
7420315	WELD METAL CADWELD CROSS	1500	10.0 EA	_____

Completed By: \_\_\_\_\_ Notes / Variance: \_\_\_\_\_

**Operation: 2082 AD19416 CADWELD TEE 4/0 CU TO COPPERWELD - Charge Time**

Work Center: SUBMNT SUB STATION MAINTENANCE Start: 02/01/2012 Start Date: \_\_\_\_\_

Internal Work: 0.0 Duration: 0.0 End: 02/01/2012 End Date: \_\_\_\_\_

Reg Material	Reg Description	Sloc	Est. Qty UOM	Actual Qty
7420303	WELD METAL CADWELD TEE	1500	20.0 EA	_____

Completed By: \_\_\_\_\_ Notes / Variance: \_\_\_\_\_

**Operation: 2162 AD19424 CADWELD TEE 40. TO 500KCMIL - Charge Time**

Work Center: SUBMNT SUB STATION MAINTENANCE Start: 02/01/2012 Start Date: \_\_\_\_\_

Internal Work: 0.0 Duration: 0.0 End: 02/01/2012 End Date: \_\_\_\_\_

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Reg Material	Reg Description	Sloc	Est. Qty UOM	Actual Qty
7420303	WELD METAL CADWELD TEE	1500	4.0 EA	_____

**Completed By:** \_\_\_\_\_ **Notes / Variance:** \_\_\_\_\_

**Operation: 2172 D-14165 230KV CONDUIT MATERIALS**

**- Charge Time**

**Work Center:** SUBMNT SUB STATION MAINTENANCE

**Start:** 02/01/2012 **Start Date:** \_\_\_\_\_

**Internal Work:** 0.0 H **Duration:** 0.0 H

**End:** 02/01/2012 **End Date:** \_\_\_\_\_

WIP Material	WIP Description	Sloc	Est. Qty UOM	Actual Qty
8521300	WIRE 9 4C CONTROL CABLE	1500	9,300.0 FT	_____
8526800	WIRE 12 16CONTROL CABLE	1500	3,100.0 FT	_____
8631100	CABLE#6 7ST 3C 600V UG	1500	3,025.0 FT	_____
8631300	WIRE 1/0 19ST 3C600V UG	1500	1,000.0 FT	_____

Reg Material	Reg Description	Sloc	Est. Qty UOM	Actual Qty
1190000	ANCHOR EXPANSION 3/8" WEDGE	1500	14.0 EA	_____
7624500	BELL END 2" IPS PVC DB-120 CONDUIT	1500	13.0 EA	_____
7631300	CHANNEL-STRUT 1-5/8" HDG STEEL W/SLOTS	1500	3.0 FT	_____
7632400	CLAMP 2" PIPE/CONDUIT SUPPORT STRUT	1500	3.0 EA	_____
7633400	CLAMP 4" PIPE/CONDUIT SUPPORT STRUT	1500	4.0 EA	_____
7642200	CONDUIT PVC, 2" IPS, SCH 80	1500	1,300.0 FT	_____
7642400	CONDUIT PVC, 4" IPS, SCH 80	1500	40.0 FT	_____
7643000	PLUG CAP 2" CONDUIT POLY	1500	13.0 EA	_____
7643200	PLUG CAP 4" CONDUIT POLY	1500	4.0 EA	_____
7643800	COUPLING 2" SCH 80 PVC CONDUIT	1500	3.0 EA	_____
7645201	BEND 2" SCH 80 90DEG 30RAD PVC	1500	25.0 EA	_____
7645202	BEND 2" SCH 80 45DEG 24RAD PVC	1500	8.0 EA	_____
7645404	BEND 4" SCH 80 90DEG 24RAD PVC	1500	8.0 EA	_____
7647000	FITTING STRUT 3 HOLE 90 DEG LONG	1500	4.0 EA	_____

**Completed By:** \_\_\_\_\_ **Notes / Variance:** \_\_\_\_\_