| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | SF | 80 | 13.2/13.9 | 386 R2 | 1204 |

REGISTERED ELECTRICAL ENGINEER 12/19/02 DATE

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JENS ERLINGSSON No. 8249 Exp. 9/30/06 ELECTRICAL STATE OF CALIFORNIA

PB POWER, Inc.
A Parsons Brinckerhoff Company
303 Second St., Suite 700N
San Francisco, CA 94107-1317

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Caltrans Metric

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

| MARK | DATE | DESCRIPTIONS | BY | CH'D | CCO# |
|---|---|---|---|---|---|
| 2 | 03/30/09 | SERVICE PLATFORM ELECTRICAL CHANGES | RR RY | RG MP | 55 |
| 1 | 03/04/08 | BARRIER MODIFICATIONS | JS BM | RG SE | 44 |

REVISIONS

CONTRACT CHANGE ORDER NO._____
SHEET_____ OF_____

REGISTERED PROFESSIONAL ENGINEER S. A. ESTOQUE, JR. No. E-10151 Exp. 12/31/2008 ELECTRICAL STATE OF CALIFORNIA

FOR REVISION ONLY 1

REGISTERED PROFESSIONAL ENGINEER FADI WALIEDDINE No. 11465 Exp. 12/31/2009 ELECTRICAL STATE OF CALIFORNIA

FOR REVISION ONLY 2

## CONDUIT DATA

| Conduit No | Reference | Size | Type | Total Fill (mm²) | Allowable Fill (mm²) | Included Cable No. | Conductor Type |
|---|---|---|---|---|---|---|---|
| 3702 | E-284, E-275 | 78 | RGS-PVC coated conduit | 436.32 | 1935.24 | UP210-1B-1B | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-2 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| 3703 | E-284 | 53 | RGS-PVC coated conduit | 725.01 | 879.42 | UP210-1B-3 | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-4 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| | | | | | | UP210-1B-3C | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| 3704 | E-284, E-285 | 53 | RGS-PVC coated conduit | 436.32 | 879.42 | UP210-1B-4 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-3C | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-3A | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| 3705 | E-284, E-275 | 53 | RGS-PVC coated conduit | 315.59 | 879.42 | UP210-1B-3B | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-4 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| | | | | | | UP210-1B-3C | 2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation |
| 3706 | E-284, E-275 | 53 | RGS-PVC coated conduit | 241.67 | 879.42 | UP210-1B-5 | 2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-5C | 2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-6 | 2 + 1 gnd #12, #12, 600 V, RHH/RHW insulation |
| | | | | | 2 | Pull rope | Soft-Fiber Polyester |
| 3707 | E-284, E-275 | 53 | RGS-PVC coated conduit | 241.67 | 879.42 | UP210-1B-6 | 2 + 1 gnd #12, #12 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-5A | 2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-5C | 2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation |
| | | | | | 2 | Pull rope | Soft-Fiber Polyester |
| 3708 | E-284, E-275 | 53 | RGS-PVC coated conduit | 241.67 | 879.42 | UP210-1B-5B | 2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-5C | 2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-6 | 2 + 1 gnd #12, #12, 600 V, RHH/RHW insulation |
| | | | | | 2 | Pull rope | Soft-Fiber Polyester |
| 3800 | E-284, E-275 | 53 | RGS-PVC coated conduit | 387.11 | 879.42 | UP210-1B-8 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| | | | | | | UP210-1B-7 | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-7C | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| 3801 | E-284 | 53 | RGS-PVC coated conduit | 483.34 | 879.42 | UP210-1B-8 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| | | | | | | UP210-1B-7A | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-7C | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| 3802 | E-284, E-275 | 78 | RGS-PVC coated conduit | 436.32 | 1935.24 | Pull rope | Soft-Fiber Polyester |
| | | | | | | UP210-1B-8 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-7C | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-7B | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| 3803 | E-284, E-275 | 53 | RGS-PVC coated conduit | 725.01 | 879.42 | UP210-1B-10 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| | | | | | | UP210-1B-9 | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-9C | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| 3804 | E-284, E-285 | 78 | RGS-PVC coated conduit | 436.32 | 1935.24 | Pull rope | Soft-Fiber Polyester |
| | | | | | | UP210-1B-10 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-9A | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-9C | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| 3805 | E-284, E-275 | 53 | RGS-PVC coated conduit | 337.90 | 879.42 | UP210-1B-10 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| | | | | | | UP210-1B-9B | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-9C | 2 + 1 gnd #8,#10, 600 V, RHH/RHW insulation |
| 3806 | E-284, E-275 | 53 | RGS-PVC coated conduit | 241.67 | 879.42 | UP210-1B-12 | 2 + 1 gnd #12, #12, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-11 | 2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-11C | 2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation |
| | | | | | 2 | Pull rope | Soft-Fiber Polyester |
| 3807 | E-284, E-275 | 53 | RGS-PVC coated conduit | 241.67 | 879.42 | UP210-1B-11A | 2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-11C | 2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-12 | 2 + 1 gnd #12, #12, 600 V, RHH/RHW insulation |
| | | | | | 2 | Pull rope | Soft-Fiber Polyester |

## CONDUIT DATA

| Conduit No | Reference | Size | Type | Total Fill (mm²) | Allowable Fill (mm²) | Included Cable No. | Conductor Type |
|---|---|---|---|---|---|---|---|
| 3808 | E-284, E-275 | 53 | RGS-PVC coated conduit | 241.67 | 879.42 | UP210-1B-12 | 2 + 1 gnd #12, #12, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-11B | 2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation |
| | | | | | | UP210-1B-11C | 2 + 1 gnd #8, #10, 600 V, RHH/RHW insulation |
| 2 4007A | E-71A | 78 | Liquidtight Flex. Metal Cond. | | 1935.24 | Pull rope | Soft-Fiber Polyester |
| 4009 | E-71A 2 | 53 | Liquidtight Flex. Metal Cond. | 60.80 | 879.42 | Pull rope | Soft-Fiber Polyester |
| | | | | | | UP104-5 | 2 + 1 gnd #10,#10, 600 V, RHH/RHW insulation |
| 4010 | E-71A | 53 | Liquidtight Flex. Metal Cond. | 98.42 | 879.42 | UP104-12 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |
| | | | | | | UP104-10 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| 4029 | E-72A | 78 | Liquidtight Flex. Metal Cond. | 1217.21 | 1935.24 | 1201-5 | 1-3/C #14,600 V, EPR insulation |
| | | | | | | UP105-15 | 1-2/C + gnd #8,600 V, EPR insulation |
| | | | 2 | | | Pull rope | Soft-Fiber Polyester |
| | | | | | | 1201-4 | 1-9/C #16,600 V, EPR insulation |
| | | | | | | 1201-3 | 1-3/C #14,600 V, EPR insulation |
| | | | | | | 1201-1 | 1-2/C + gnd #8,600 V, EPR insulation |
| | | | | | | 1201-6 | 1-2/C + gnd #8,600 V, EPR insulation |
| | | | | | | 1201-2 | 1-2/C + gnd #8,600 V, EPR insulation |
| | | | | | 2 | | |
| | | | | | 2 | | |
| | | | 2 | | | | |
| 4033 | E-72A 2 | 53 | Liquidtight Flex. Metal Cond. | 481.89 | 879.42 | Pull rope | Soft-Fiber Polyester |
| | | | | | | UP105-5 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| | | | | | | UP105-13 | 1-2/C + gnd #12,600 V, EPR insulation |
| | | | | | | UP105-11 | 1-2/C + gnd #12,600 V, EPR insulation |
| | | | | | | UP105-15 | 1-2/C + gnd #8,600 V, EPR insulation |
| 4034 | E-72A | 53 | Liquidtight Flex. Metal Cond. | 0.00 | 879.42 | Pull rope | Soft-Fiber Polyester |
| 4036 | E-73A | 53 | Liquidtight Flex. Metal Cond. | 276.67 | 879.42 | UP106-5 | 2 + 1 gnd #12,#12, 600 V, RHH/RHW insulation |
| | | | | | | | 1-2/C + gnd #8,600 V, EPR insulation |
| | | | | | | Pull rope | Soft-Fiber Polyester |

For continuation, see next sheet.

# CONDUIT AND TRAY SCHEDULE

E-431

DESIGN OVERSIGHT
BEHZAD GOLEMOHAMMADI

CALCULATED/DESIGNED BY PBP
CHECKED BY AB
REVISED BY DATE 8/02
DATE REVISED 8/02

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 3/31/2009
TIME PLOTTED => 2:29:52 PM

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

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