DATE: 04/09:96 TIME: 20:42:45
DESIGN FILE: I:\ligo\site1\ee\wae118.d3z

## PANEL VEAC-01

FED FROM: | CKT #:

LOCATION: LVEA RM 105 — VOLTS: 480Y/277V
MOUNTING: RECESSSED — MAIN:
PHASE: 3 — WIRE: 4 — FEEDER: — BUS: 225

| CKT | LOAD SERVED | SLOT | POLES | WIRE SIZE | TRIP | VOLT AMPS | PHASE LOAD (VA) A | B | C | VOLT AMPS | TRIP | WIRE SIZE | POLES | SLOT | LOAD SERVED | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEATER BLANKET CART | 1 | 3 | | | 27000 | 9000 1233 | | | 3700 | | | 3 | 2 | MAIN ROUGHING PUMP | 2 |
| | | 3 | | | | — | | 9000 1233 | | — | | | | 4 | | |
| | | 5 | | | | — | | | 9000 1233 | — | | | | 6 | | |
| 7 | MAIN TURBO PUMP | 7 | 1 | | | 400 | 400 9000 | | | 27000 | | | 3 | 8 | C-CC-PD-VEAC-07 | 8 |
| 9 | SPARE | 9 | | | | | | 9000 | | — | | | | 10 | | |
| 11 | SPARE | 11 | | | | | | | 9000 | — | | | | 12 | | |
| 13 | SPARE | 13 | | | | | 9000 | | | 27000 | | | 3 | 14 | C-CC-PD-VEAC-14 | 14 |
| 15 | SPACE | 15 | | | | | | 9000 | | — | | | | 16 | | |
| 17 | SPACE | 17 | | | | | | | 9000 | — | | | | 18 | | |
| 19 | SPACE | 19 | | | | | | | | | | | | 20 | SPACE | 20 |
| 21 | SPACE | 21 | | | | | | | | | | | | 22 | SPACE | 22 |
| 23 | SPACE | 23 | | | | | | | | | | | | 24 | SPACE | 24 |
| 25 | SPACE | 25 | | | | | | | | | | | | 26 | SPACE | 26 |
| 27 | SPACE | 27 | | | | | | | | | | | | 28 | SPACE | 28 |
| 29 | SPACE | 29 | | | | | | | | | | | | 30 | SPACE | 30 |
| | | | | | | TOTAL | 28633 | 28233 | 28233 | | | | | | | |

TOTAL CONNECTED LOAD (VA): 85100
(AMPS):

## PANEL VEAC-02

FED FROM: | CKT #:

LOCATION: LVEA RM 104 — VOLTS: 480Y/277V
MOUNTING: RECESSSED — MAIN:
PHASE: 3 — WIRE: 4 — FEEDER: — BUS: 225

| CKT | LOAD SERVED | SLOT | POLES | WIRE SIZE | TRIP | VOLT AMPS | PHASE LOAD (VA) A | B | C | VOLT AMPS | TRIP | WIRE SIZE | POLES | SLOT | LOAD SERVED | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEATER BLANKET CART | 1 | 3 | | | 27000 | 9000 1233 | | | 3700 | | | 3 | 2 | MAIN ROUGHING PUMP | 2 |
| | | 3 | | | | — | | 9000 1233 | | — | | | | 4 | | |
| | | 5 | | | | — | | | 9000 1233 | — | | | | 6 | | |
| 7 | MAIN TURBO PUMP | 7 | 1 | | | 400 | 400 9000 | | | 27000 | | | 3 | 8 | C-CC-PD-VEAC-07 | 8 |
| 9 | SPARE | 9 | | | | | | 9000 | | — | | | | 10 | | |
| 11 | SPARE | 11 | | | | | | | 9000 | — | | | | 12 | | |
| 13 | SPARE | 13 | | | | | 9000 | | | 27000 | | | 3 | 14 | C-CC-PD-VEAC-14 | 14 |
| 15 | SPACE | 15 | | | | | | 9000 | | — | | | | 16 | | |
| 17 | SPACE | 17 | | | | | | | 9000 | — | | | | 18 | | |
| 19 | SPACE | 19 | | | | | | | | | | | | 20 | SPACE | 20 |
| 21 | SPACE | 21 | | | | | | | | | | | | 22 | SPACE | 22 |
| 23 | SPACE | 23 | | | | | | | | | | | | 24 | SPACE | 24 |
| 25 | SPACE | 25 | | | | | | | | | | | | 26 | SPACE | 26 |
| 27 | SPACE | 27 | | | | | | | | | | | | 28 | SPACE | 28 |
| 29 | SPACE | 29 | | | | | | | | | | | | 30 | SPACE | 30 |
| | | | | | | TOTAL | 28633 | 28233 | 28233 | | | | | | | |

TOTAL CONNECTED LOAD (VA): 85100
(AMPS):

## PANEL VEAC-03

FED FROM: | CKT #:

LOCATION: LVEA RM 103 — VOLTS: 480Y/277V
MOUNTING: RECESSSED — MAIN:
PHASE: 3 — WIRE: 4 — FEEDER: — BUS: 225

| CKT | LOAD SERVED | SLOT | POLES | WIRE SIZE | TRIP | VOLT AMPS | PHASE LOAD (VA) A | B | C | VOLT AMPS | TRIP | WIRE SIZE | POLES | SLOT | LOAD SERVED | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEATER BLANKET CART | 1 | 3 | | | 27000 | 9000 1233 | | | 3700 | | | 3 | 2 | MAIN ROUGHING PUMP | 2 |
| | | 3 | | | | — | | 9000 1233 | | — | | | | 4 | | |
| | | 5 | | | | — | | | 9000 1233 | — | | | | 6 | | |
| 7 | MAIN TURBO PUMP | 7 | 1 | | | 400 | 400 9000 | | | 27000 | | | 3 | 8 | C-CC-PD-VEAC-12 | 8 |
| 9 | SPARE | 9 | | | | | | 9000 | | — | | | | 10 | | |
| 11 | SPARE | 11 | | | | | | | 9000 | — | | | | 12 | | |
| 13 | SUBFEED TO C-CC-PD-VEAC-06 | 13 | 3 | | | 47000 | 15667 9000 | | | 27000 | | | 3 | 14 | C-CC-PD-VEAC-13 | 14 |
| | | 15 | | | | — | | 15667 9000 | | — | | | | 16 | | |
| | | 17 | | | | — | | | 15667 9000 | — | | | | 18 | | |
| 19 | SPACE | 19 | | | | | | | | | | | | 20 | SPACE | 20 |
| 21 | SPACE | 21 | | | | | | | | | | | | 22 | SPACE | 22 |
| 23 | SPACE | 23 | | | | | | | | | | | | 24 | SPACE | 24 |
| 25 | SPACE | 25 | | | | | | | | | | | | 26 | SPACE | 26 |
| 27 | SPACE | 27 | | | | | | | | | | | | 28 | SPACE | 28 |
| 29 | SPACE | 29 | | | | | | | | | | | | 30 | SPACE | 30 |
| | | | | | | TOTAL | 44300 | 43900 | 43900 | | | | | | | |

TOTAL CONNECTED LOAD (VA): 132100
(AMPS):

## PANEL VEAC-04

FED FROM: | CKT #:

LOCATION: LVEA RM 102 — VOLTS: 480Y/277V
MOUNTING: RECESSSED — MAIN:
PHASE: 3 — WIRE: 4 — FEEDER: — BUS: 225

| CKT | LOAD SERVED | SLOT | POLES | WIRE SIZE | TRIP | VOLT AMPS | PHASE LOAD (VA) A | B | C | VOLT AMPS | TRIP | WIRE SIZE | POLES | SLOT | LOAD SERVED | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEATER BLANKET CART | 1 | 3 | | | 27000 | 9000 1233 | | | 3700 | | | 3 | 2 | MAIN ROUGHING PUMP | 2 |
| | | 3 | | | | — | | 9000 1233 | | — | | | | 4 | | |
| | | 5 | | | | — | | | 9000 1233 | — | | | | 6 | | |
| 7 | MAIN TURBO PUMP | 7 | 1 | | | 400 | 400 9000 | | | 27000 | | | 3 | 8 | C-CC-PD-VEAC-12 | 8 |
| 9 | SPARE | 9 | | | | | | 9000 | | — | | | | 10 | | |
| 11 | SPARE | 11 | | | | | | | 9000 | — | | | | 12 | | |
| 13 | SUBFEED TO C-CC-PD-VEAC-06 | 13 | 3 | | | 47000 | 15667 9000 | | | 27000 | | | 3 | 14 | C-CC-PD-VEAC-13 | 14 |
| | | 15 | | | | — | | 15667 9000 | | — | | | | 16 | | |
| | | 17 | | | | — | | | 15667 9000 | — | | | | 18 | | |
| 19 | SPACE | 19 | | | | | | | | | | | | 20 | SPACE | 20 |
| 21 | SPACE | 21 | | | | | | | | | | | | 22 | SPACE | 22 |
| 23 | SPACE | 23 | | | | | | | | | | | | 24 | SPACE | 24 |
| 25 | SPACE | 25 | | | | | | | | | | | | 26 | SPACE | 26 |
| 27 | SPACE | 27 | | | | | | | | | | | | 28 | SPACE | 28 |
| 29 | SPACE | 29 | | | | | | | | | | | | 30 | SPACE | 30 |
| | | | | | | TOTAL | 44300 | 43900 | 43900 | | | | | | | |

TOTAL CONNECTED LOAD (VA): 132100
(AMPS):

## PANEL VEAC-05

FED FROM: | CKT #:

LOCATION: LVEA RM 103 — VOLTS: 480Y/277V
MOUNTING: RECESSSED — MAIN:
PHASE: 3 — WIRE: 4 — FEEDER: — BUS: 100

| CKT | LOAD SERVED | SLOT | POLES | WIRE SIZE | TRIP | VOLT AMPS | PHASE LOAD (VA) A | B | C | VOLT AMPS | TRIP | WIRE SIZE | POLES | SLOT | LOAD SERVED | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEATER BLANKET CART | 1 | 3 | | | 20000 | 9000 6667 | | | 27000 | | | 3 | 2 | CRYOPUMP REGENERATOR | 2 |
| | | 3 | | | | — | | 9000 6667 | | — | | | | 4 | | |
| | | 5 | | | | — | | | 9000 6667 | — | | | | 6 | | |
| 7 | MAIN TURBO PUMP | 7 | 1 | | | 400 | 400 6667 | | | 20000 | | | 3 | 8 | BEAM TUBE POWER | 8 |
| 9 | SPARE | 9 | | | | | | 6667 | | — | | | | 10 | | |
| 11 | SPARE | 11 | | | | | | | 6667 | — | | | | 12 | | |
| | | | | | | TOTAL | 22734 | 22334 | 22334 | | | | | | | |

TOTAL CONNECTED LOAD (VA): 67402
(AMPS):

## PANEL VEAC-06

FED FROM: | CKT #:

LOCATION: LVEA RM 102 — VOLTS: 480Y/277V
MOUNTING: RECESSSED — MAIN:
PHASE: 3 — WIRE: 4 — FEEDER: — BUS: 100

| CKT | LOAD SERVED | SLOT | POLES | WIRE SIZE | TRIP | VOLT AMPS | PHASE LOAD (VA) A | B | C | VOLT AMPS | TRIP | WIRE SIZE | POLES | SLOT | LOAD SERVED | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HEATER BLANKET CART | 1 | 3 | | | 20000 | 9000 6667 | | | 27000 | | | 3 | 2 | CRYOPUMP REGENERATOR | 2 |
| | | 3 | | | | — | | 9000 6667 | | — | | | | 4 | | |
| | | 5 | | | | — | | | 9000 6667 | — | | | | 6 | | |
| 7 | MAIN TURBO PUMP | 7 | 1 | | | 400 | 400 6667 | | | 20000 | | | 3 | 8 | BEAM TUBE POWER | 8 |
| 9 | SPARE | 9 | | | | | | 6667 | | — | | | | 10 | | |
| 11 | SPARE | 11 | | | | | | | 6667 | — | | | | 12 | | |
| | | | | | | TOTAL | 22734 | 22334 | 22334 | | | | | | | |

TOTAL CONNECTED LOAD (VA): 67402
(AMPS):

| Date Received: 4-19-96 | LIGO-D960407-A-O Contractor # WA-E-118 Rev A |
|---|---|
| TIM # 28 | LIGO-A960857-00-V |
| Date: 4/19/96 | Approved: |
| TDM # | LIGO- |
| Date: / / | Approved: |
| Gen'l Transmittal | LIGO- |
| Date: / / | Approved: |

REFERENCES

| DRAWING NO. | DESCRIPTION |
|---|---|

REVISIONS

| NO. | DATE | BY | CHKD | ENGR | PROJ | DESCRIPTION |
|---|---|---|---|---|---|---|
| A | 4-19-96 | J.G. | | | TDM | FINAL DESIGN REVIEW & BID |

| | | |
|---|---|---|
| DRAWN | J. G. | |
| CHECKED | | |
| ENGINEER | | |
| PROJ | | |

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA

LIGO
CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER
GRAVITATIONAL-WAVE OBSERVATORY
SITE NO. 1 - HANFORD, WASHINGTON

TITLE: ELECTRICAL CORNER STATION LVEA VEAC PANEL SCHEDULES
LIGO-D960407-A-O

| SCALE | CONTRACT NUMBER | PROJECT NUMBER |
|---|---|---|
| NONE | PP150969 | 8094 |

SHEET NUMBER: WA-E-118
REVISIONS: A

LIGOWAF3.BDR