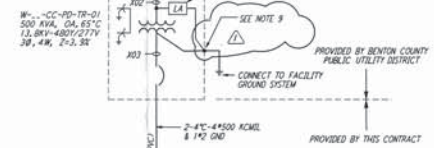
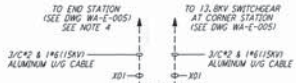


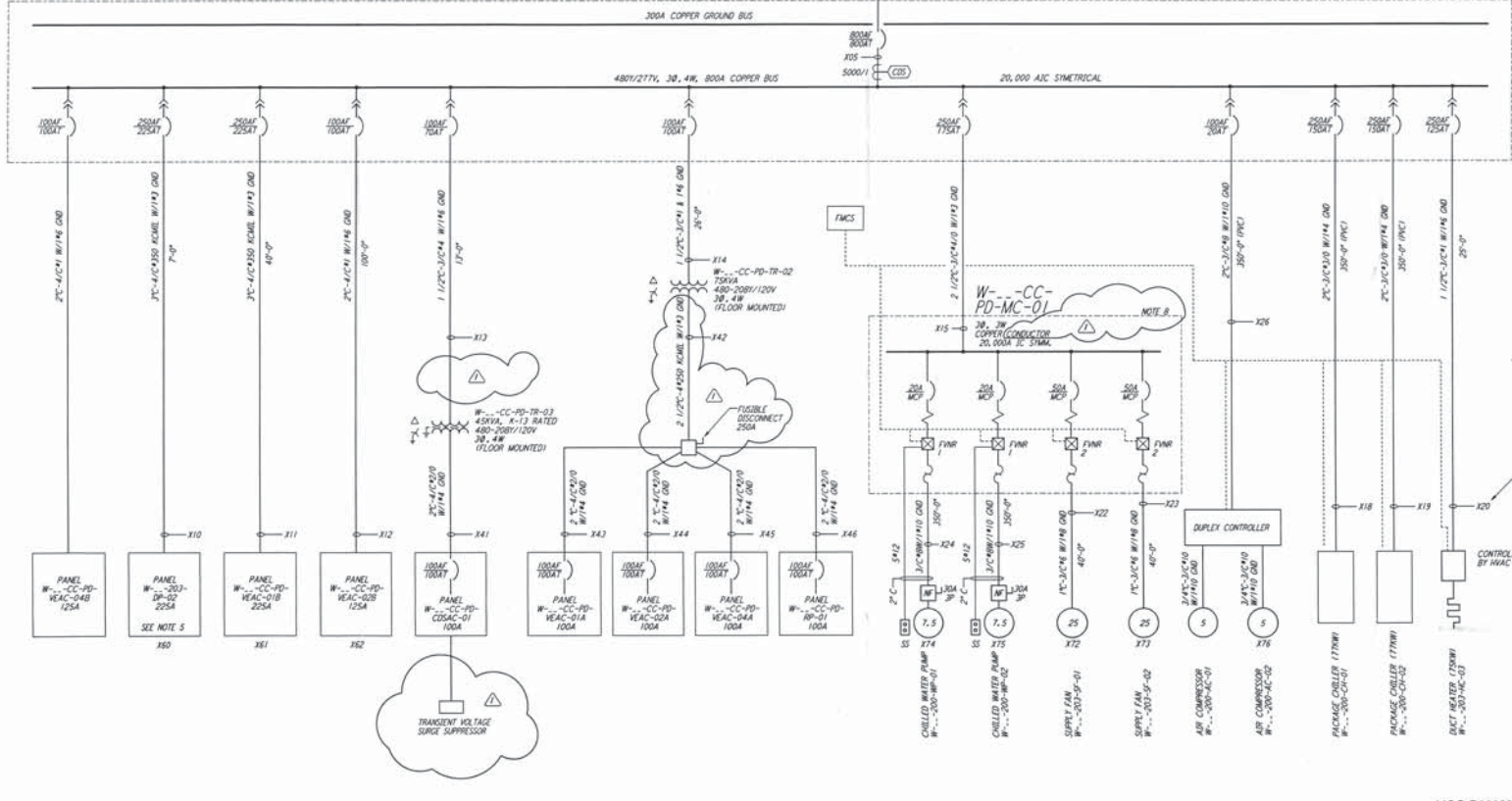
NOTES:

- FOR LEGEND AND GENERAL NOTES SEE DWG WA-E-008.
- ALL CONDUCTORS ARE COPPER UNLESS OTHERWISE NOTED.
- ALL TRANSFORMER WINDINGS ARE ALUMINUM UNLESS OTHERWISE NOTED.
- 12.0KV CABLES ARE SHOWN FOR TYPICAL MID STATION. THE END STATION IS SIMILAR EXCEPT, A SINGLE CABLE CONNECTS TO TRANSFORMER PRIMARY.
- PANEL 02-02 SHALL BE PROVIDED WITH REMOTE CONTROLLED CIRCUIT BREAKERS FOR ALL LIGHTING CIRCUITS (CIRCUITS), PROVIDE 3 SPARE SINGLE-POLE 250A REMOTE CONTROL CIRCUIT BREAKERS. REMOTE CONTROL TRANSFORMER AND BREAKERS SHALL BE SQUARE D POWERLUM OR APPROVAL EQUAL. TRANSFORMER SHALL BE COMPATIBLE WITH THE FACS IN SPECIFICATION SECTION 13000.
- ALL CIRCUIT BREAKERS SHALL BE PROVIDED WITH LOCKING/LOCKABLE ACCESSORIES TO ENSURE THAT CIRCUITS ARE ENERGIZED BY AUTHORIZED PERSONNEL ONLY.
- DISTRIBUTION AND LIGHTING PANELS SHALL BE FINISHED WITH LOCKABLE DOORS. CIRCUIT BREAKERS SHALL BE PROVIDED WITH LOCKING/LOCKABLE ACCESSORIES TO ENSURE THAT CIRCUITS ARE ENERGIZED BY AUTHORIZED PERSONNEL ONLY.

8. CUTLER HAMMER WESTINGHOUSE MULTI-PHASE GROUP CONTROL TYPE MOTOR CONTROL CENTER.
 9. SEE DWG. WA-E-504 FOR TYPICAL TRANSFORMER GROUNDING DETAIL.



W---CC-PD-DP-01



ANALYTIC STUDY NOTES:

- X12 REPRESENTS THE ANALYTIC NODE NUMBER, AND CORRESPONDS WITH THE ETAP VERSION 7.301 ANALYTIC STUDY.

NODE NUMBERING SCHEDULE

BUILDING	DESIGNATOR	X
MID. ARM A	MA	3
ENG. ARM A	EA	4
MID. ARM B	MB	5
ENG. ARM B	EB	6

REPLACE X WITH THE NUMBER AT RIGHT TO IDENTIFY THE SPECIFIC NODE IN A SPECIFIC BUILDING.

LIGO-D960393-01-0

This document and the design it covers are the property of PARSONS. They are loaned only with the borrower's expressed written agreement that they will not be reproduced, copied, loaned, exhibited, or used in any other way, except by written consent from PARSONS to the borrower.

NO.	DATE	BY	CHKD	ENGR	PROJ	GENERAL REVISIONS
1	3-21-97	J.G.				

ISSUED FOR CONSTRUCTION
 DRAWN: M.M. 6-25-96
 CHECKED: J.R. 7-3-96
 ENGINEER: R.R. 7-3-96
 PROJ: T.D.M. 7-8-96



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
 TYPICAL END OR MID STATION
 SINGLE LINE DIAGRAM
 AS NOTED PPI50969 8094
WA-E-008