



**Owner:** John A Cherberg Building  
304 15<sup>th</sup> Avenue SW  
Olympia, Washington  
Tel: 360.786.7417

**Engineer Estimate:** \$9000,000.00

**Low Bid:** \$902,000.00

**Construction Cost:** \$1,222,153.00

**Completion Date:** 2000

**Owner's Rep:** Dee Hooper  
WA State Department of General Administration  
Division of Engineering and Architectural Services  
PO Box 41012  
Olympia, WA 98505-1012  
Tel: 360.786.7012

**Work Included:** This project included both mechanical and electrical design. Complete control design for a complete HVAC upgrade for the 3<sup>rd</sup>, 4<sup>th</sup> and basement floors of the John A. Cherberg Building. This historical building is on the Capital Campus and was occupied during construction. Work also included a partial electrical upgrade, demolition of existing HVAC equipment, piping and ductwork. Including demolition of existing light fixtures and switches, Installation of new walls and ceilings. Installation of new HVAC equipment and sheet metal ducts. Installation of new lighting and electrical work. Installation of new fire alarm system and adjustment to existing fire sprinkler system.

Project Personnel:

George Richmond, P.E.	Mechanical Lead
Steinar Flatruud	Mechanical/Electrical Engineer

*John A Cherberg Building*





***Irving Newhouse  
Building – State Capitol  
Campus***



**Owner:** Irving Newhouse Building  
Capitol Campus  
Olympia, Washington

**Construction Cost:** \$53,570.00

**Completion Date:** 2001

**Owner's Rep:** Vikki Poitra  
Department of General  
Administration  
206 General Admin. Building  
P.O. Box 41012  
Olympia, Washington 98504

**Architect:** Architects BCRA  
2106 Pacific avenue, Suite 300  
Tacoma, WA. 98402  
Contact: Duwayne Gratz, Dave Seifert

**Work Included:** Mechanical and electrical design added a new HVAC system to the building, replaced lighting, power receptacles, and fire alarm systems. Provided telecommunications systems throughout the building.

Provided drawings showing revisions to the condensate receiver tank required to enable it to fit down inside the existing mechanical pit. Revisions included relocation of the pipe inlet port to the top of the tank, relocation of the electrical panel box to the mechanical room wall and attachment of legs to the under side of the tank to enable the tank to sit up off the bottom of the pit.

Revised pit cover plates and supports enabled covering of the tank. We envisioned that the top of the tank would be below the elevation of the pit, which enabled a cover plate to be placed down over the top of the tank and maintained the ability to walk on the plates covering the pit.

**Project Personnel:** Rod Roche, P.E.      Project Manager, Electrical Lead  
Henry Romer, P.E.      Mechanical QA  
Brad Barbo, P.E.      Mechanical Lead



**Owner:** Temple of Justice  
1206 Quince Street SE  
Olympia, WA 98504

**Engineer Estimate:** \$225,000.00

**Low Bid:** \$245,000.00

**Construction Cost:** \$245,000 .00

**Completion Date:** June, 2003

**Owner's Rep:** Erasmus Othieno, P.E.  
Department of General Administration  
Division of Engineering and Architectural Ser.  
206 General Administration Building  
PO Box 41012  
Olympia, WA 98504-1012  
Tel: 360.902.7252

**Work Included:** The Temple of Justice Building located in Olympia near the state capital houses the Washington State supreme Court and the State Law Library. Built in 1920, the building sustained damage during the Nisqually earthquake. Richmond/Archos Engineering provided electrical services for the replacement of 12.47 kV unit substation and all building power panels. Additionally, structural vault modifications were required for the project, therefore outage planning was critical.

Provided electrical design for replacement of the building transformer, switchboards, panels and associated feeders. Replaced recessed down lighting presently installed on the grand staircase exiting from the upper floor to the main floor lobby. Replaced lighting utilizes 100,000+ hour rated lamp technology to facilitate reduction in re-lamping costs and frequency. Structural vault modifications were also provided.

**Project Personnel:** Rod Roche, P.E. Project Manager, Electrical Lead  
Jeryl Stevenson Electrical Designer

## *Temple of Justice*





**Owner:** State of Washington – Department of the Military  
**Tacoma, Washington**

**Engineer Estimate:** \$600,000 (Mechanical/Electrical only)

**Completion Date:** 2002

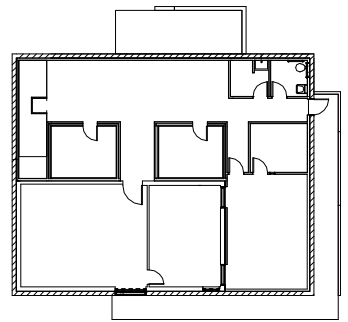
**Architect:** Mr. Fred Angelo  
Angelo Architecture  
3633 Pacific Avenue, Suite 200  
Tacoma, WA 98418  
253-475-1305

**Work Included:** Mechanical, electrical, and plumbing design for complete renovation and upgrade of 3,000 SF telecommunications building. Building is main telecommunications center for Washington National Guard. Mechanical systems included 4 separate computer room cooling systems and secure office spaces, fire suppression systems (FM 200), plumbing, and heating systems. Electrical systems included a new 350 kW generator, automatic transfer switch, new power distribution and lighting systems to support data center equipment, fire alarm, telecommunications systems. Building is located at Camp Murray, Washington

**Project Personnel:**

Rod Roche, P.E.	Project Manager, Electrical Lead
George Richmond.P.E.	Mechanical Lead

**Camp Camp Murray  
Building 19  
Telecommunications  
Facility**





***Data Centers –  
Washington State  
Agencies***

**Owner:** State of Washington  
Department of Personnel (DOP) – Rowe 6 Building  
Department of Licensing (DOL) – Union Gap Facility  
Office of Superintendent of Public Instruction (OSPI) –  
Olympia  
Military Department – Camp Murray

**Completion Dates:** 2000 through 2004

**Work Included:** Provided investigation and recommended changes, improvements, and or upgrades for numerous state agency data centers. Equipment selected included standby power generator systems, automatic transfer switches, Uninterruptible Power Supplies (UPS), power distribution units (PDU), cooling systems, fire suppression systems, and code dictated shutdown systems.

**Project Personnel:** Rod Roche, P.E.      Project Manager, Electrical Lead  
George Richmond                      Mechanical Lead