

March 16, 2010

T-Mobile
15 Commerce Way
Suite B
Norton, MA 02766

**Reference: Engineering Field Visit and Completion Affidavit
 Site 4BN1188A – Faith Evangelical Free Church
 54 Hosmer Street, Acton, MA 01720
 CEA Job Number 933.04**

Site Description:

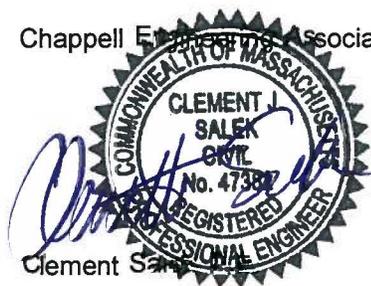
The site is located at an existing church in Acton, MA. Three antennas are mounted within the steeple at 45'-0" AGL. The equipment room was constructed at the back of the church to support the proposed radio equipment, electric equipment and all associated hardware. The coax is routed from the equipment room up a vertical cable tray, to a false roof chase then to the antennas in the steeple. The electrical feed originates from the existing main electric panel in the church basement. A new meter and 200 amp main circuit breaker were installed in the basement. The telco feed originates from the telco point of demarcation in the basement, as well as the fire protection connections.

Engineering Field Visit

On March 15, 2010 Chappell Engineering Associates performed a field inspection of the newly installed T-Mobile equipment in order to verify general conformance to our Engineering Construction Documents dated 9/21/09. The following site photos and field visit form document our field visit, and the enclosed Construction Completion Affidavit is attached as requested.

Very truly yours,

Chappell Engineering Associates, LLC



Clement Salek



BUILDING PERMIT

No. **022686**

Date NOV 16 20 09

This certifies that ALAN LARK

has permission to Install teleCOM EQUIPMENT

on 54 HOSMER ST.

Remarks ALL APPROVED PLANS REQ'D AT ALL INSPECTIONS.

provided that the person accepting this permit shall, in every respect conform to the terms of the application therefore, on file in this office, to the provisions of the Laws of the Commonwealth and to the By-Laws of the Town of Acton relating to the Location, Inspection, Erection, Enlarging, Altering, Raising, Moving, Repairing, or Tearing down of a building or structure.

Steel in + OK 15" x 12" #5

Fire Department	Plumbing & Heating	Electrical	Building Department	
Rough	Rough	Rough	Excavation <u>N.J.M.</u>	Foundation Certification Must Be Submitted Prior to Placing of Sill
Date	Date	Date	Date <u>11-23-09</u>	
Final <u>K.M.</u>	Final	Final	Foundation	Rough Framing
Date <u>3-15-10</u>	Date	Date	Date	Date

THIS CARD MUST BE DISPLAY IN A CONSPICUOUS PLACE ON THE PREMISES, MAINTAINED IN GOOD CONDITION AND MUST NOT BE REMOVED UNTIL ALL WORK HAS BEEN APPROVED.
Spaces must be initialed and dated at the time of approval of the inspecting authority before any work is covered up or any lathing is done. Each department must be notified when its portion of the work is ready for inspection.

Allow 48 hours for inspections.

Building Dept. Telephone: 264-9632

OWNERS PULLING THEIR OWN PERMIT OR DEALING WITH UNREGISTERED CONTRACTORS FOR APPLICABLE HOME IMPROVEMENT WORK DO NOT HAVE ACCESS TO THE ARBITRATION PROGRAM OR GUARANTY FUND UNDER MGL c. 142A

Final <u>N.J.M.</u>
Date <u>3-24-10</u>
Insulation Building Approved for Lathing
Date

NO WALL OF CEILING SHALL BE LATHED OR OTHERWISE COVERED UNTIL THIS CARD BEARS ENDORSEMENT BY THE BUILDING DEPARTMENT IN THE SPACE PROVIDED

BUILDING SHALL NOT BE OCCUPIED UNTIL ALL INSPECTION HAVE BEEN COMPLETED AND OCCUPANY PERMIT IS ISSUED BY THE BUILDING COMMISSIONER

Frank Ransbottom

Building Commissioner

Engineering Field Visit

Antennas, mounts, and coax

- Three antennas were installed within the steeple at 45'-0" AGL.
- The steeple was installed around the proposed antennas.
- The coax cables were installed on the vertical cable tray up the wall of the church.
- The false roof chase was constructed to route the coax along the roof of the church to the steeple.
- The GPS and LMU antennas were installed on the existing church.

Equipment

- The equipment room was constructed at the back of the church in accordance with the construction drawings.
- Cable trays were installed correctly.
- Radio cabinets, battery cabinet, HVAC unit, electric equipment and all other associate hardware were installed within the equipment room..

Utilities

- The electrical feed originates from the existing electric panel in the church basement.
- A electric meter and 200 amp circuit breaker were installed.
- The telco feed originates from the telco point of demarcation in the church basement.
- The fire protection was also connected to the fire alarm panel in the church basement.
- Grounding was connected to the grounding ring, water main and the existing ground rod.

TOWN OF ACTON

CONSTRUCTION COMPLETION AFFIDAVIT

PROJECT LOCATION: **54 Hosmer Street Acton, MA 01720
(Site No.: 4BN-1188-A)**
TENANT NAME: **T-Mobile**
NATURE OF PROJECT: **Installation of antennas within the steeple and
equipment within the proposed equipment room.**
ARCHITECT/ENGINEER: **Chappell Engineering Associates, LLC**
ADDRESS: **201 Boston Post Road West, Marlborough, MA 01752**

I certify that the project located as described above has been built under my (or a duly appointed representative) supervision, the construction is in accordance with the approved construction plans and that such plans conform to all provisions of the Commonwealth of Massachusetts Building Code (780 CMR).

We have conducted our periodic inspections during the construction process, and have verified that the site has been constructed according to our Construction Drawings.



(Stamp Seal)

A handwritten signature in blue ink, appearing to read "Clement Salek", written over a horizontal line.

Clement Salek



Equipment room at back of church.



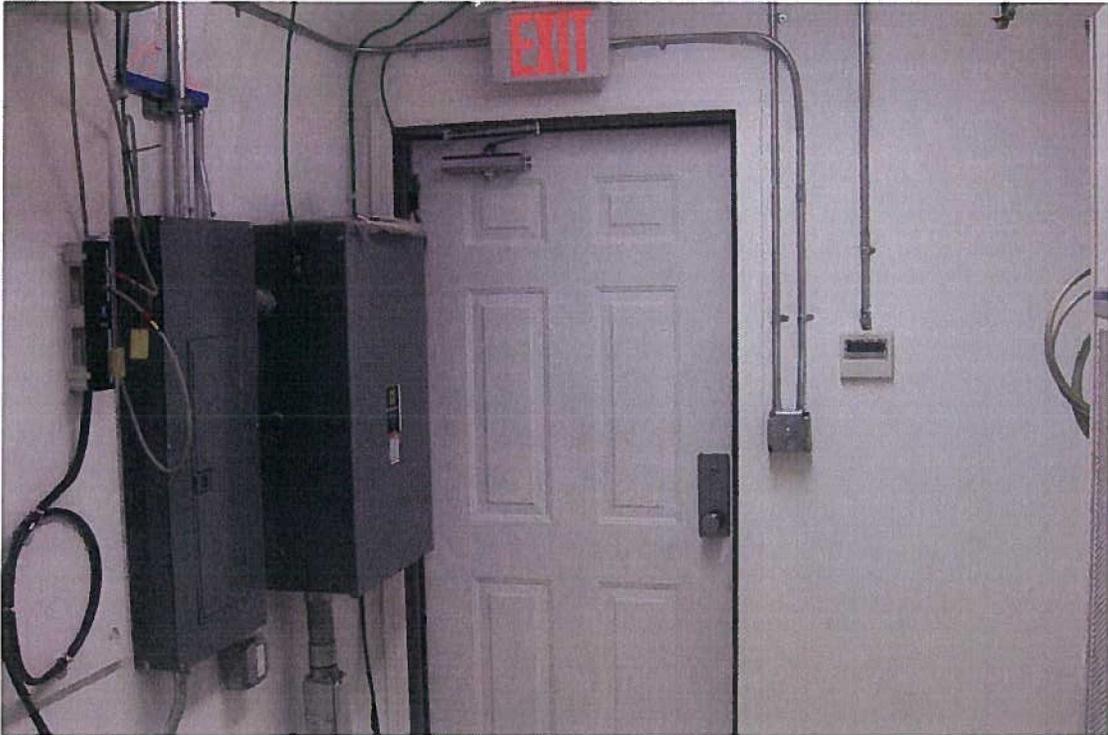
Equipment room at back of church.



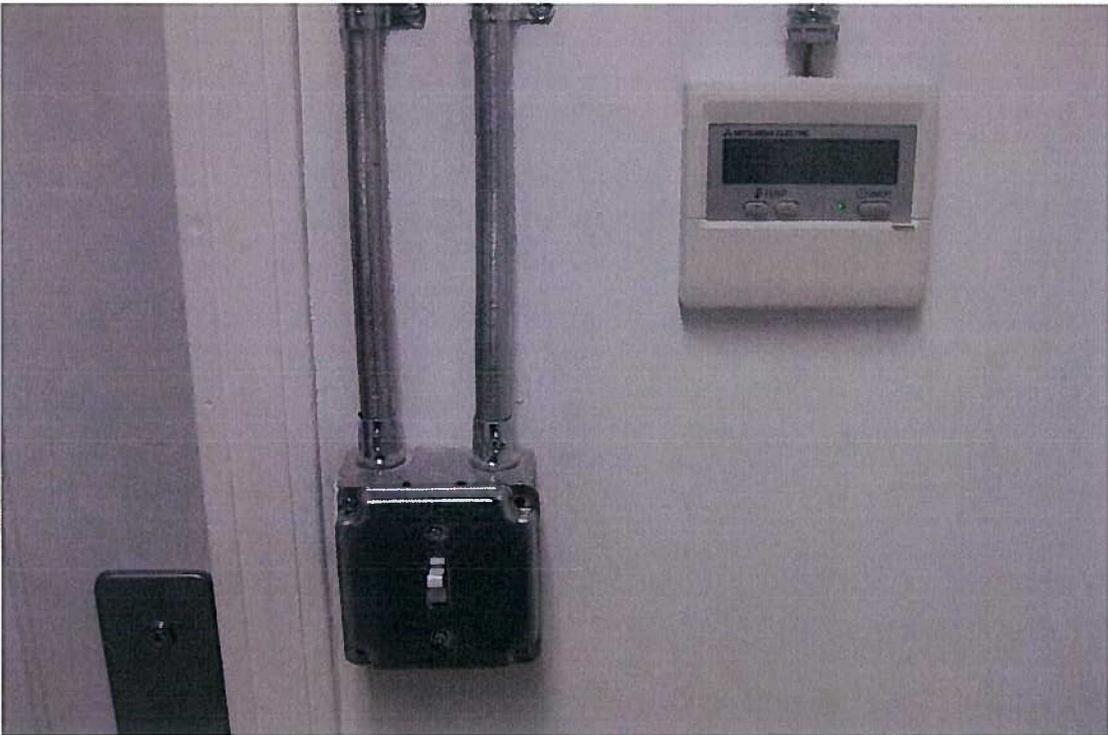
Equipment room at back of church.



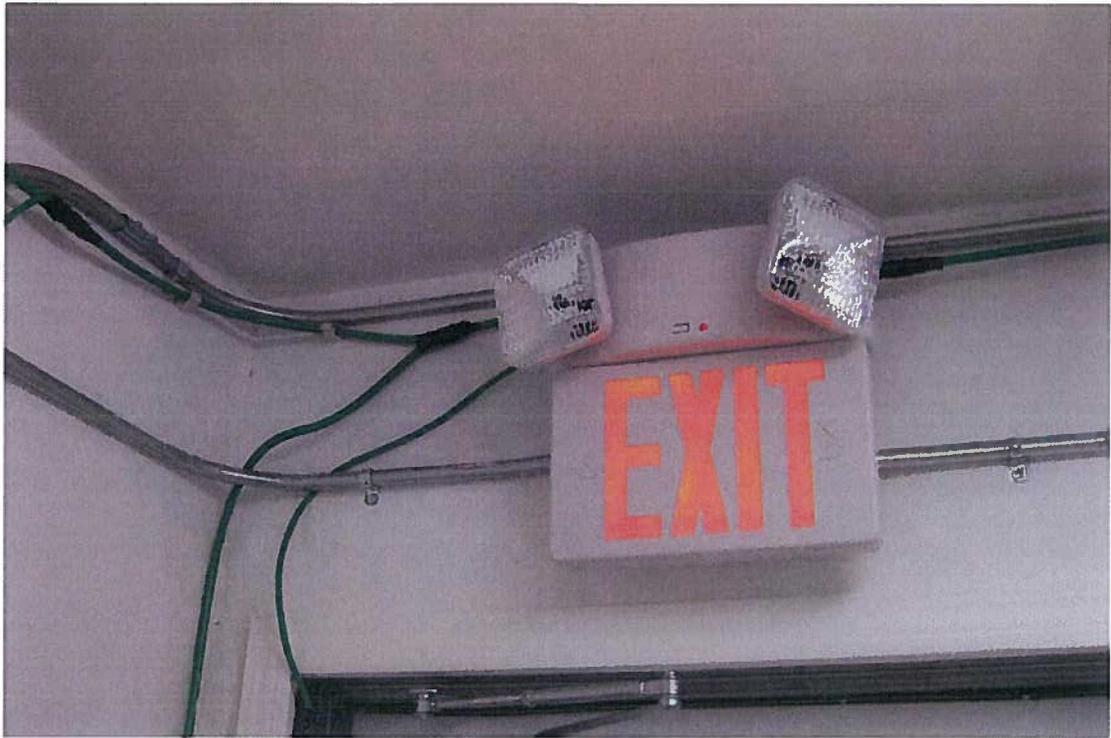
Conduit penetrations to equipment room and generator receptacle.



Inside equipment room.



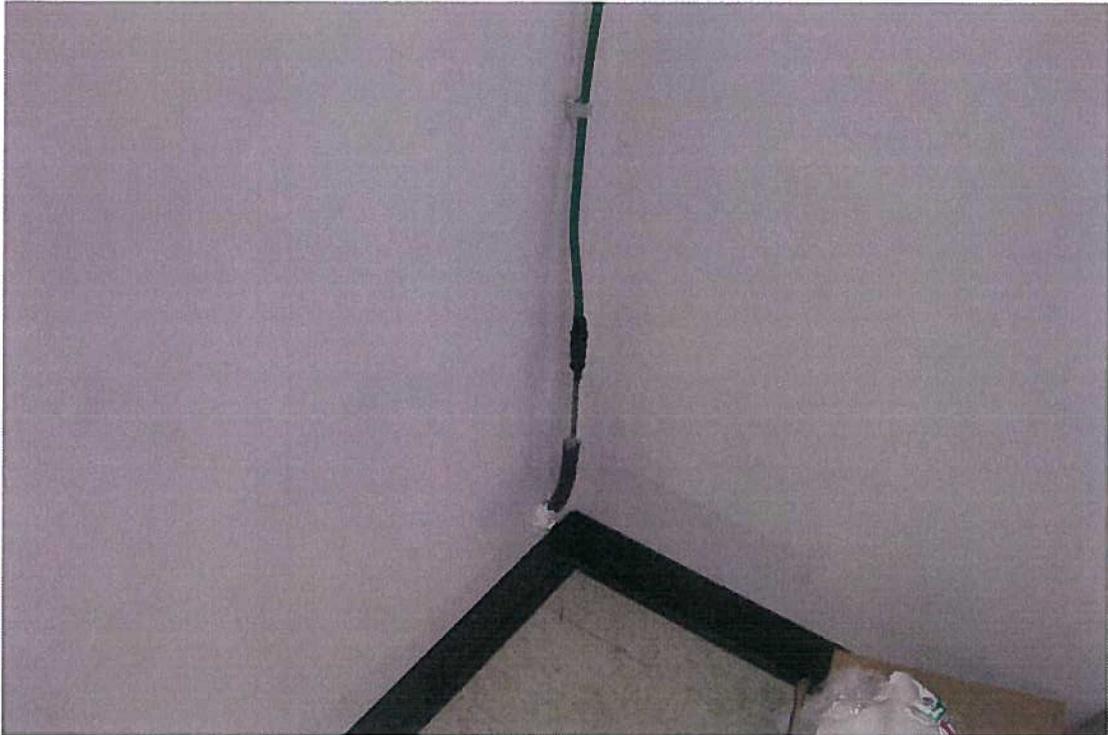
Light switch and thermostat.



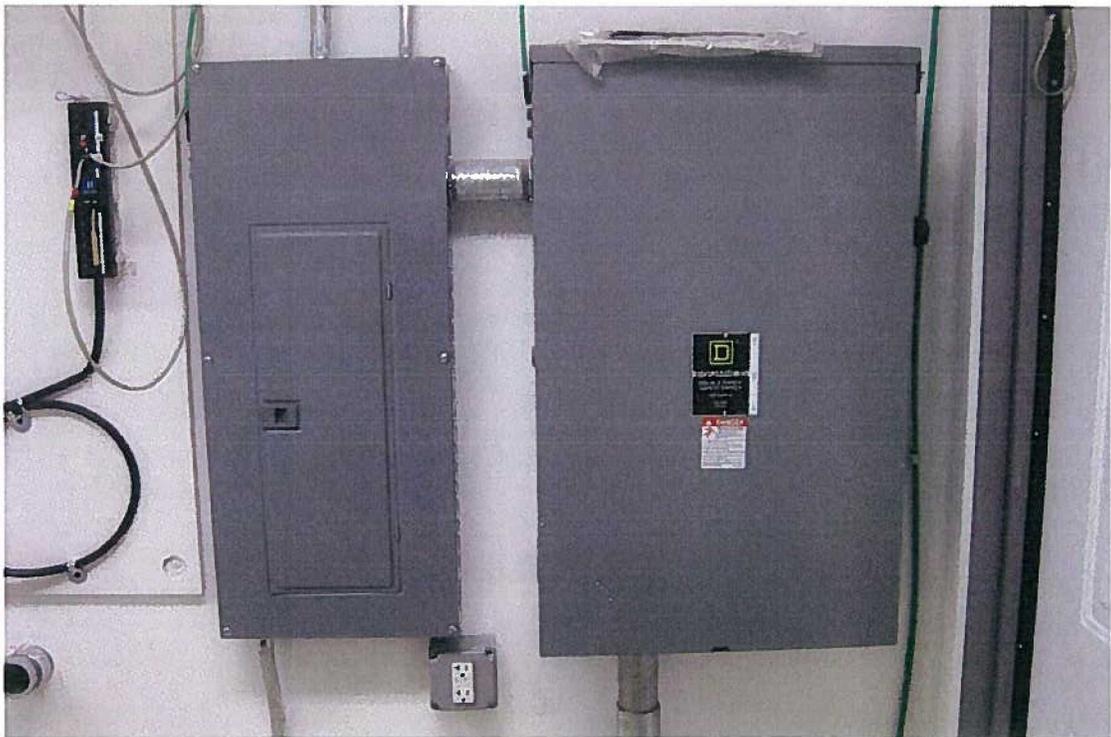
Emergency lights and exist sign, as well as grounding halo.



Door ground connections.



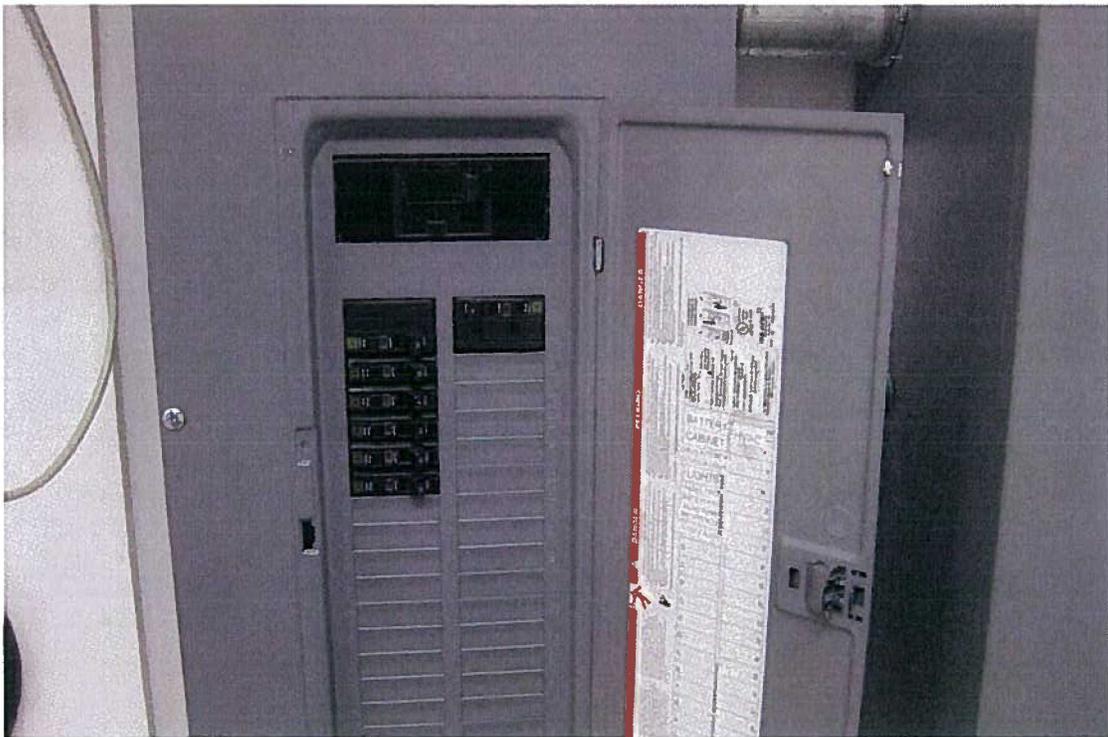
Ground lead to grounding ring.



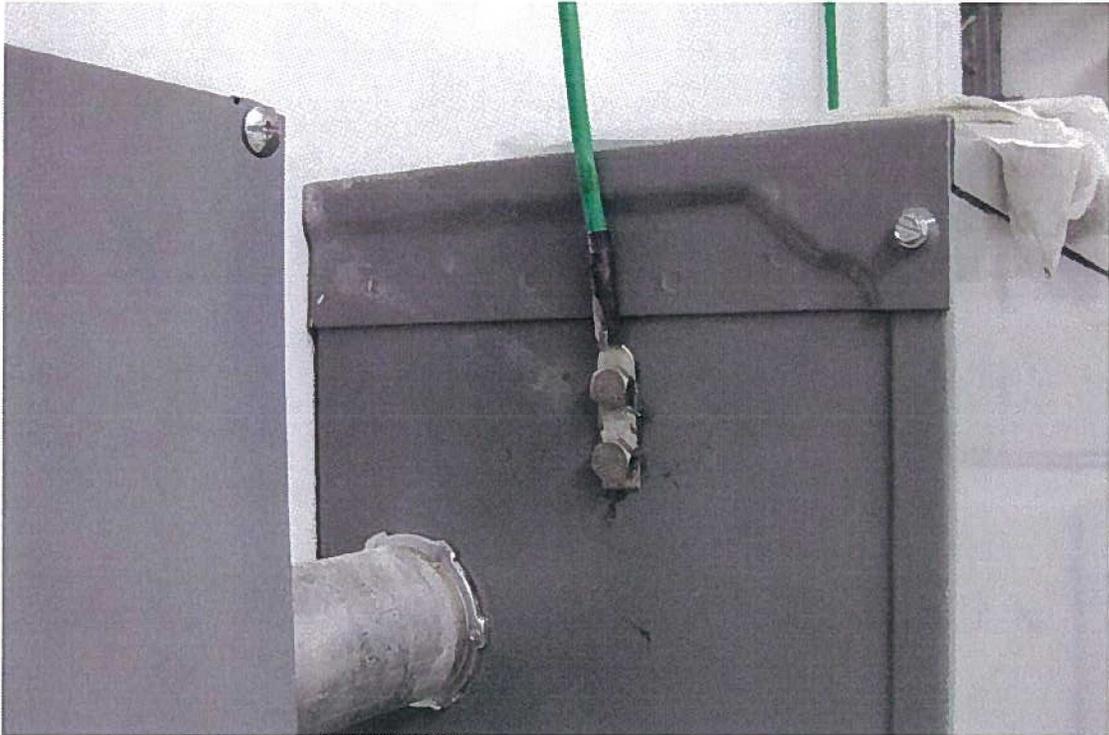
Electric panels inside equipment shelter.



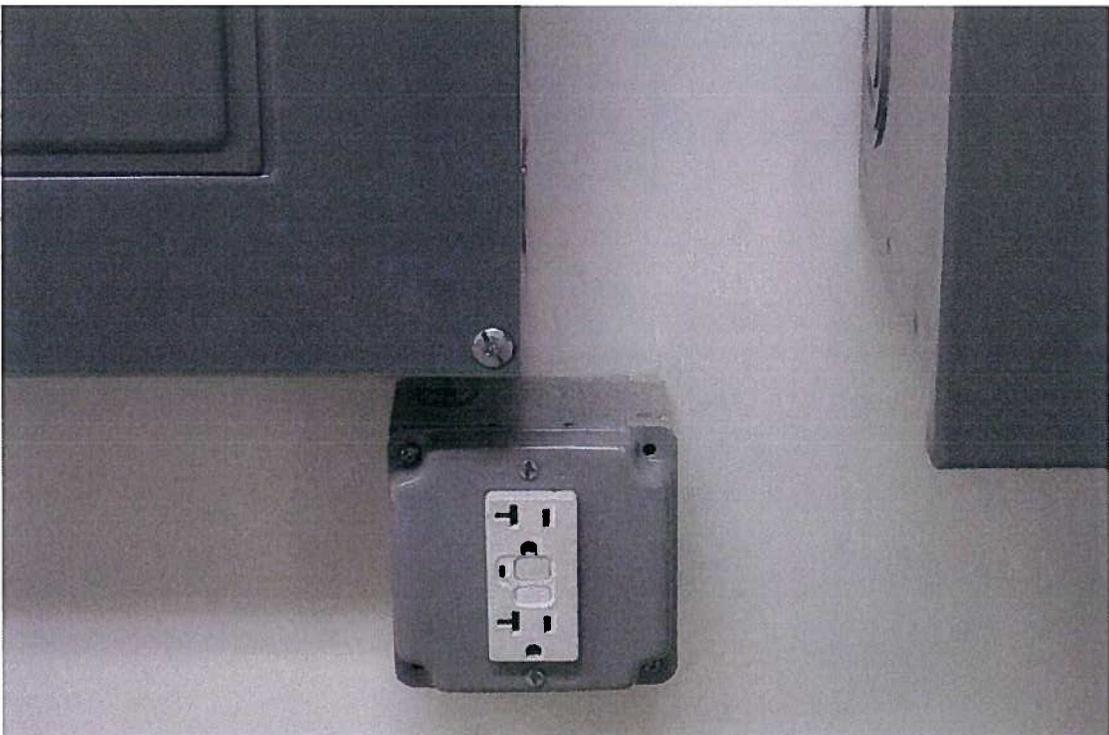
Generator transfer switch.



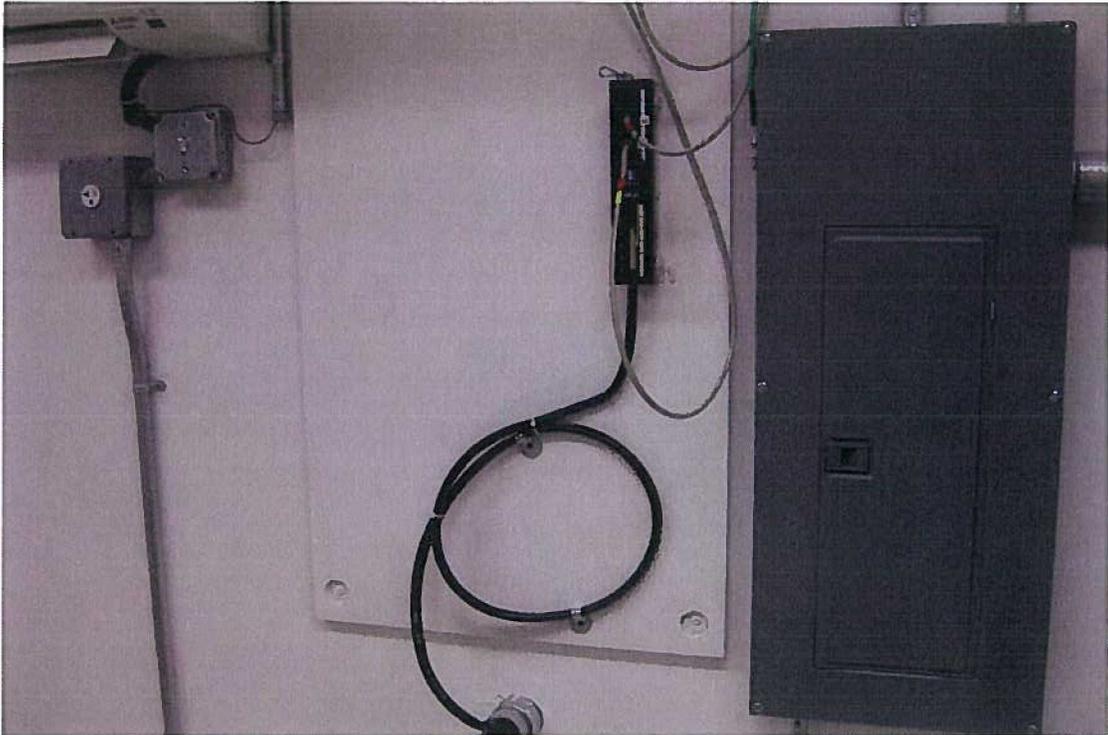
Inside electric panel.



Electric panel ground connection.



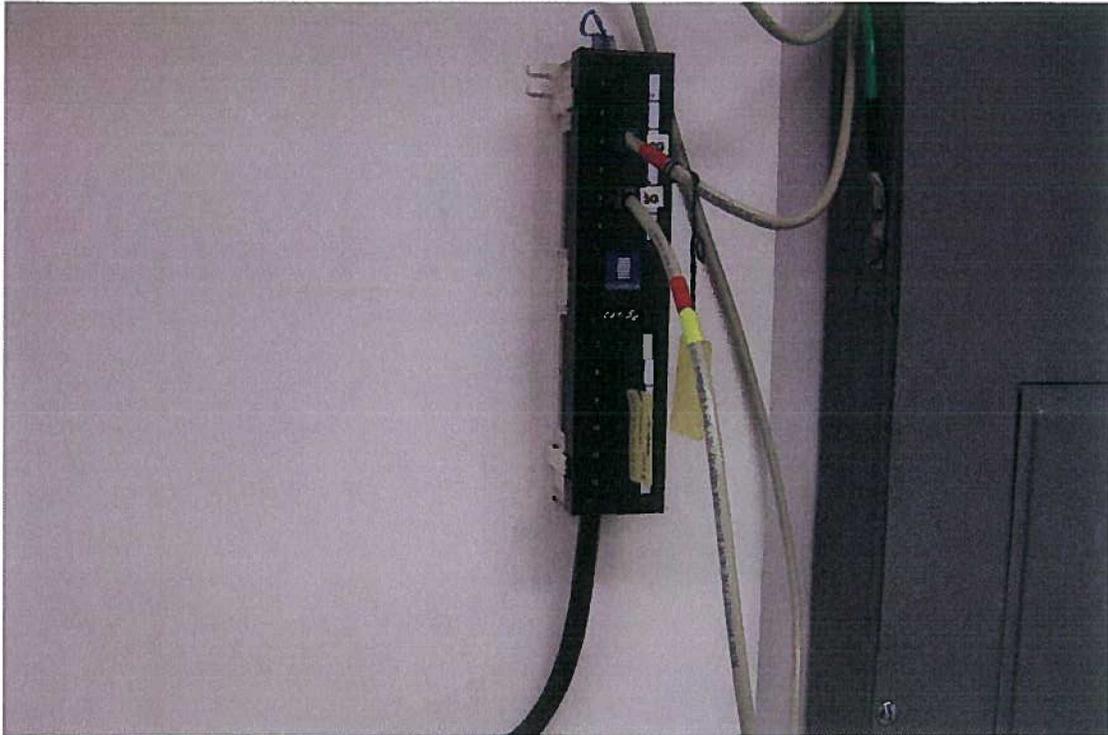
GFI receptacle.



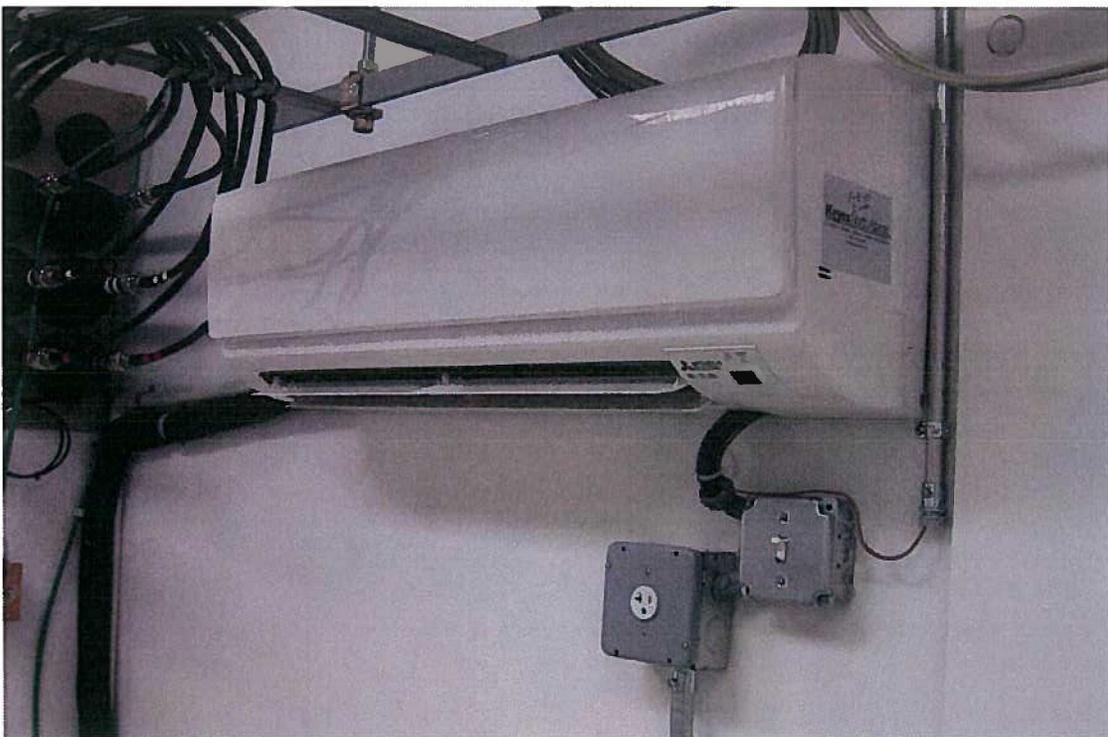
Telco backboard inside equipment shelter.



Telco conduit penetration inside equipment shelter.



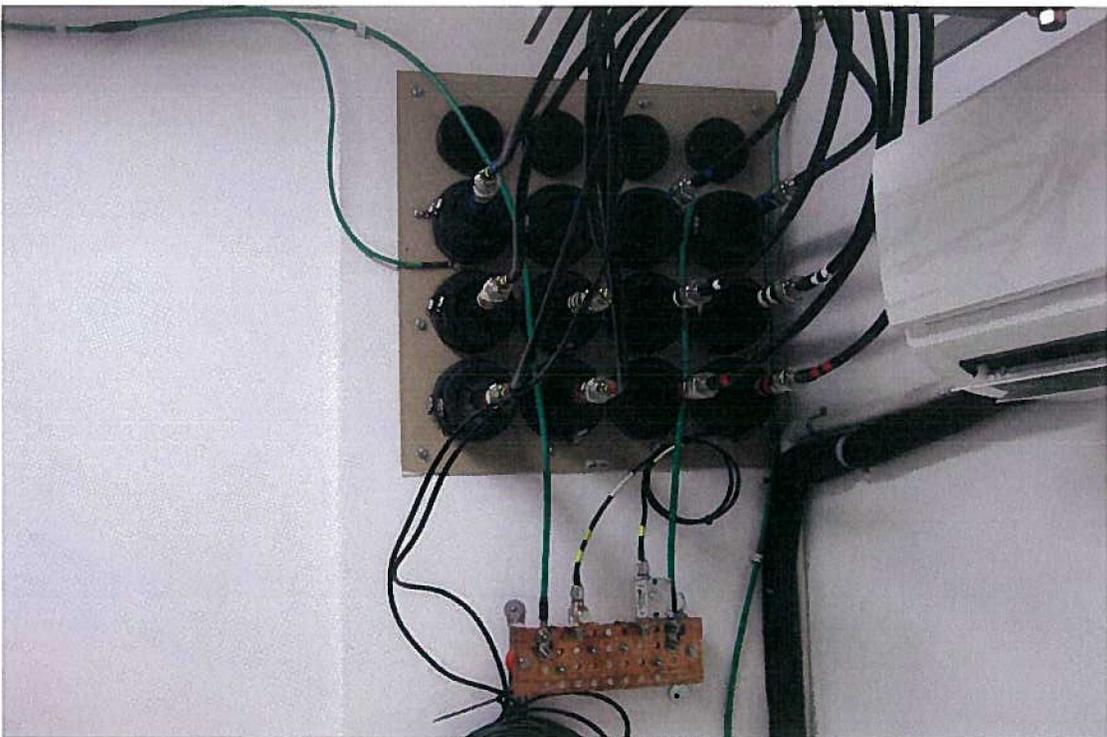
Telco demarc.



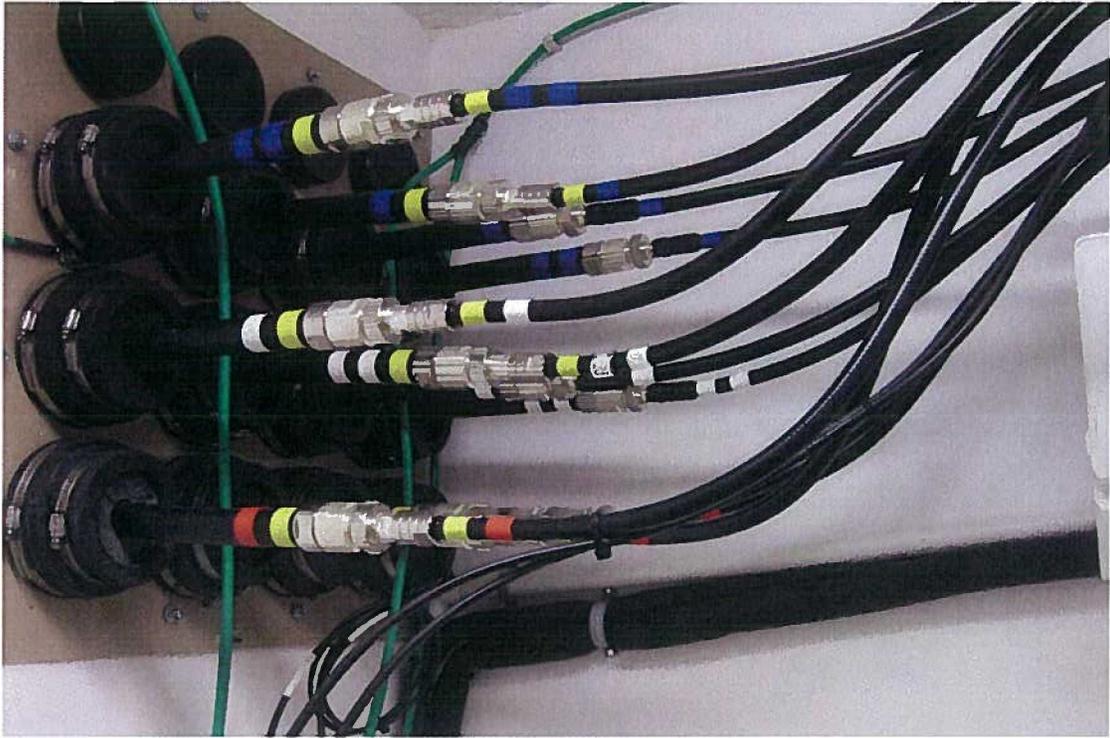
Wall mounted HVAC unit inside equipment shelter.



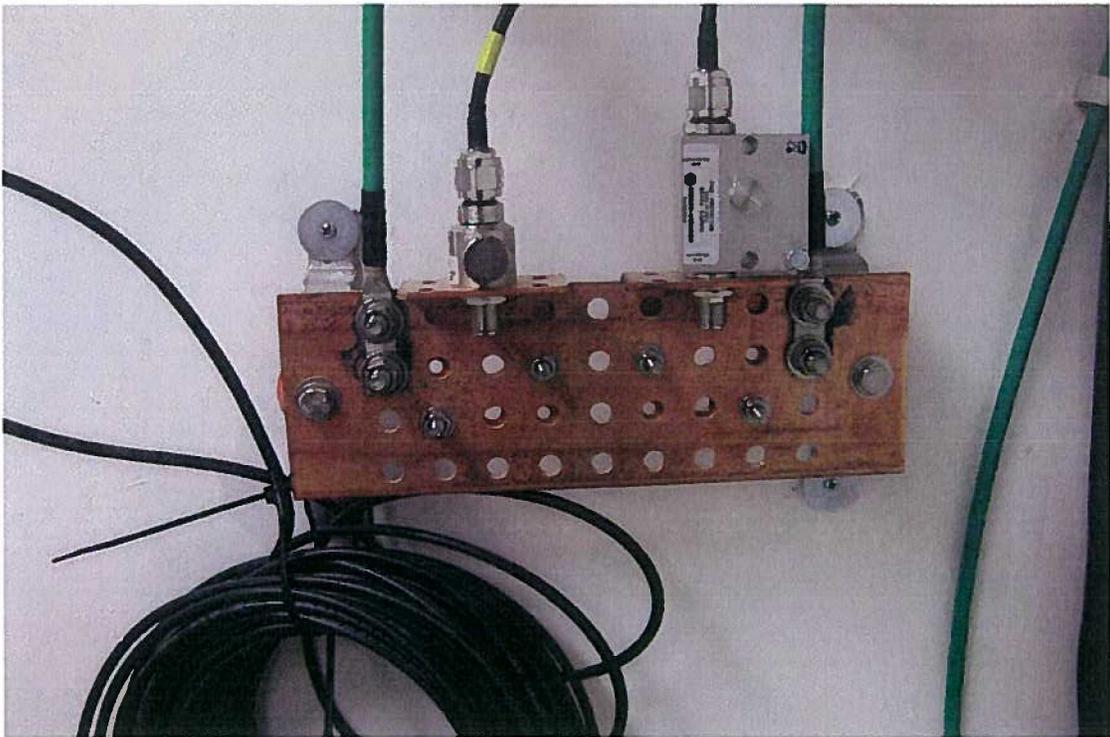
Condenser lines and power to outdoor HVAC unit.



Coax entry port inside equipment shelter.



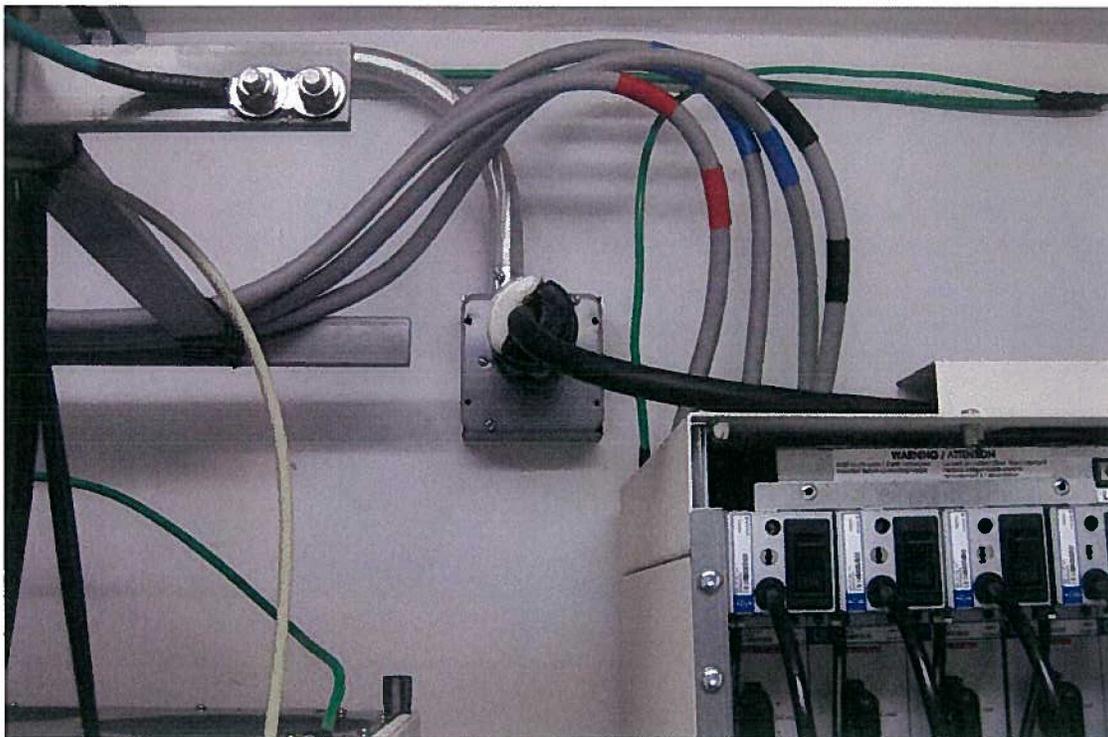
Surge arrestors at coax jumper connections.



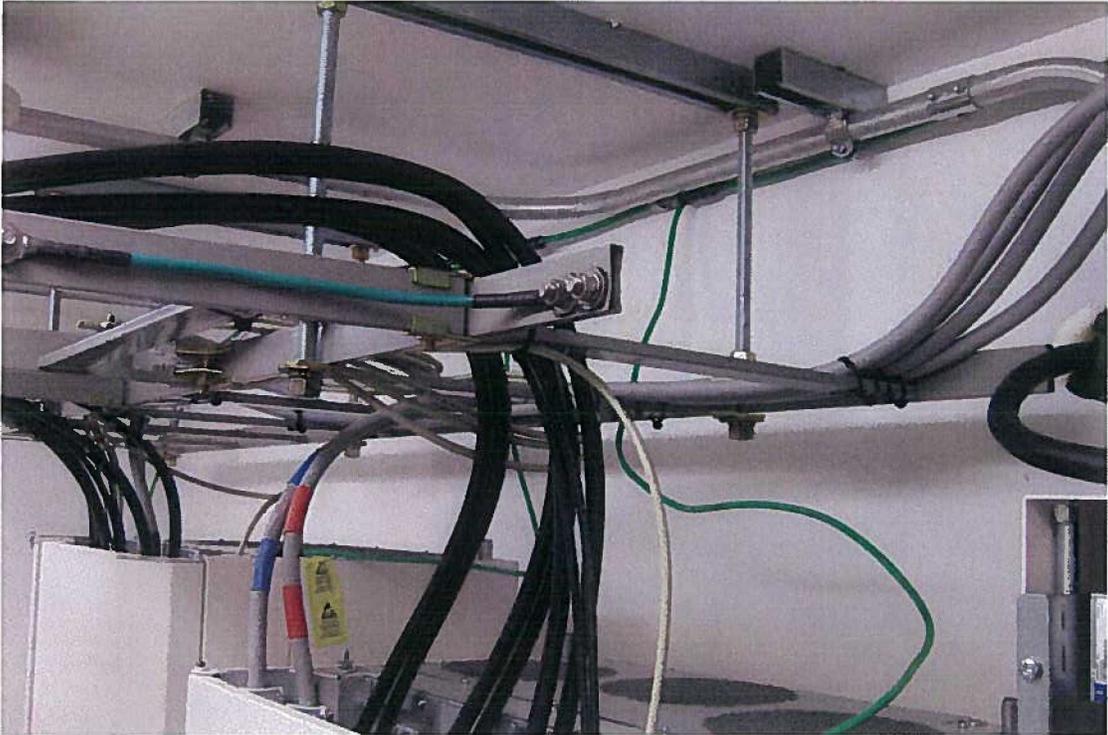
Ground bar below coax entry port.



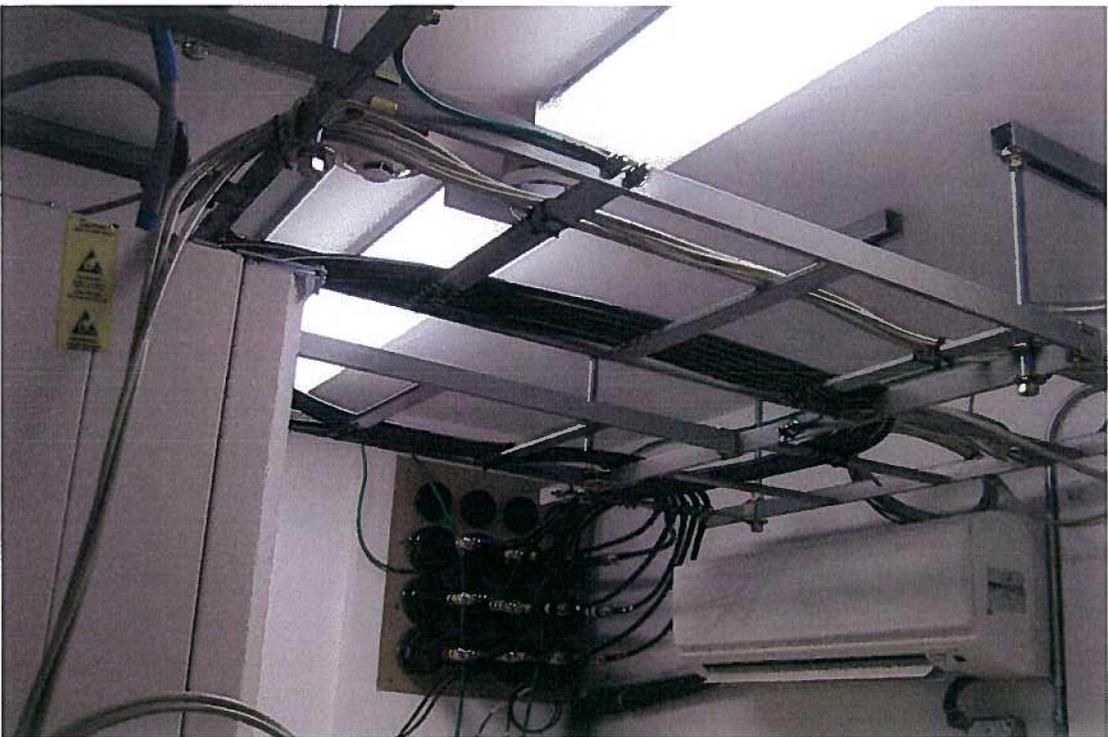
Equipment cabinets inside equipment shelter.



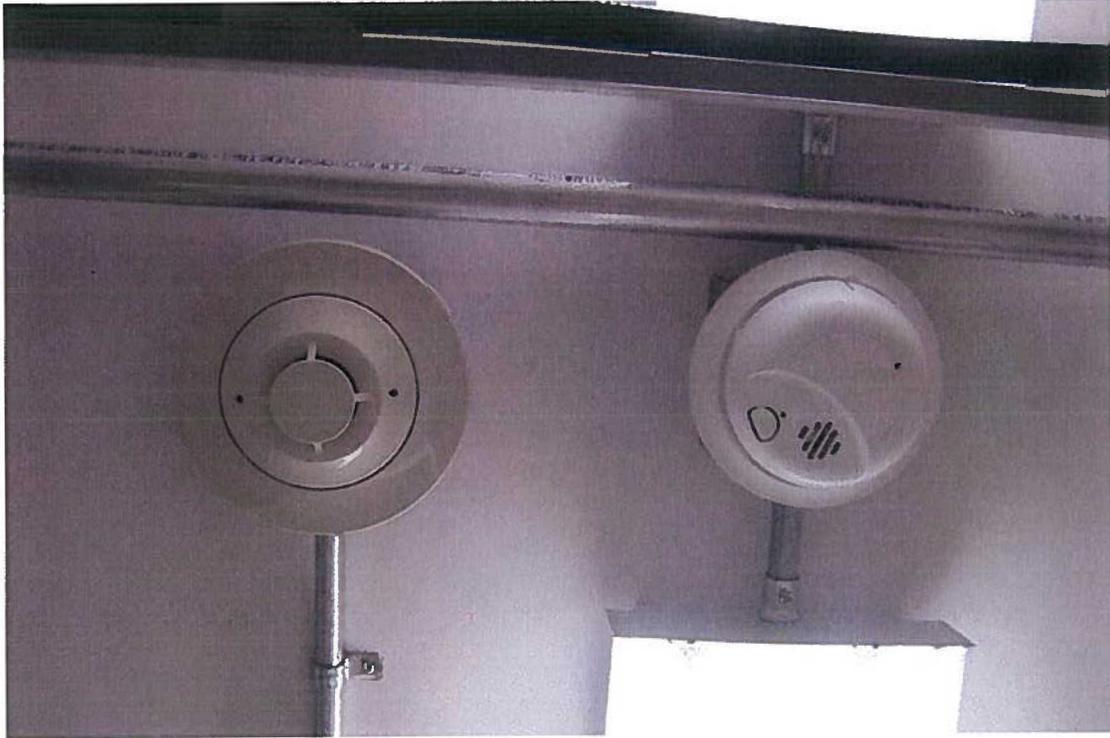
Battery cabinet receptacle.



Cable ladder and coax routing inside equipment shelter.



Cable ladder and coax routing inside equipment shelter.



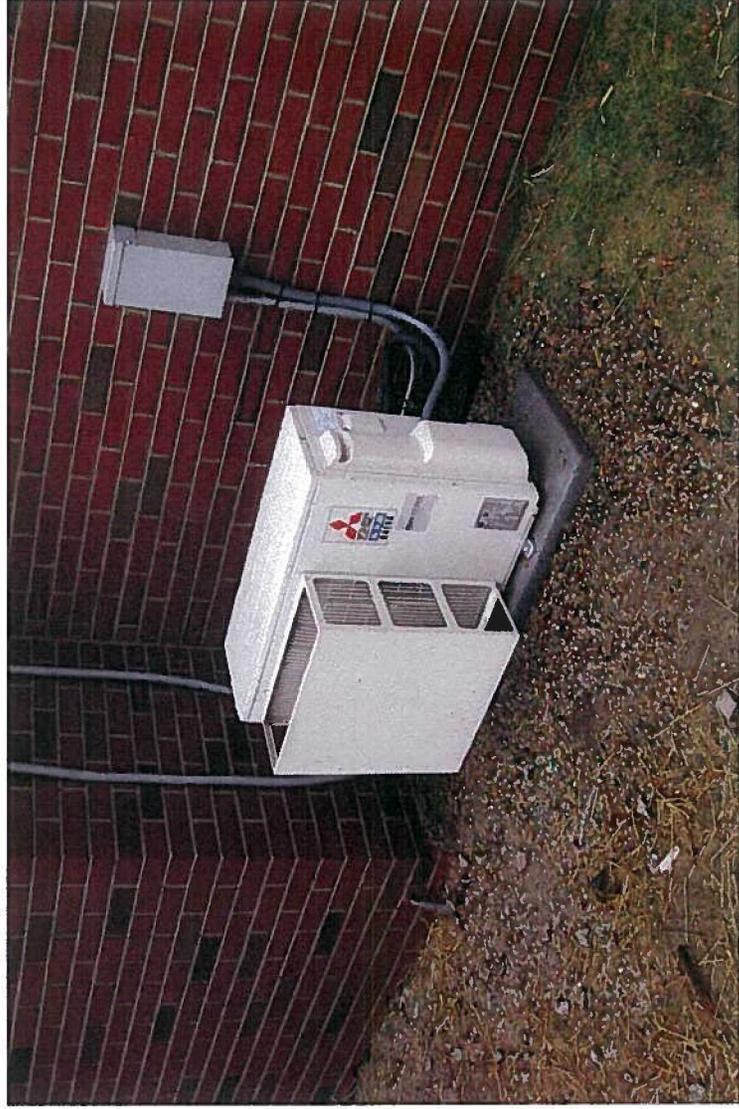
Smoke and heat detectors inside equipment shelter.



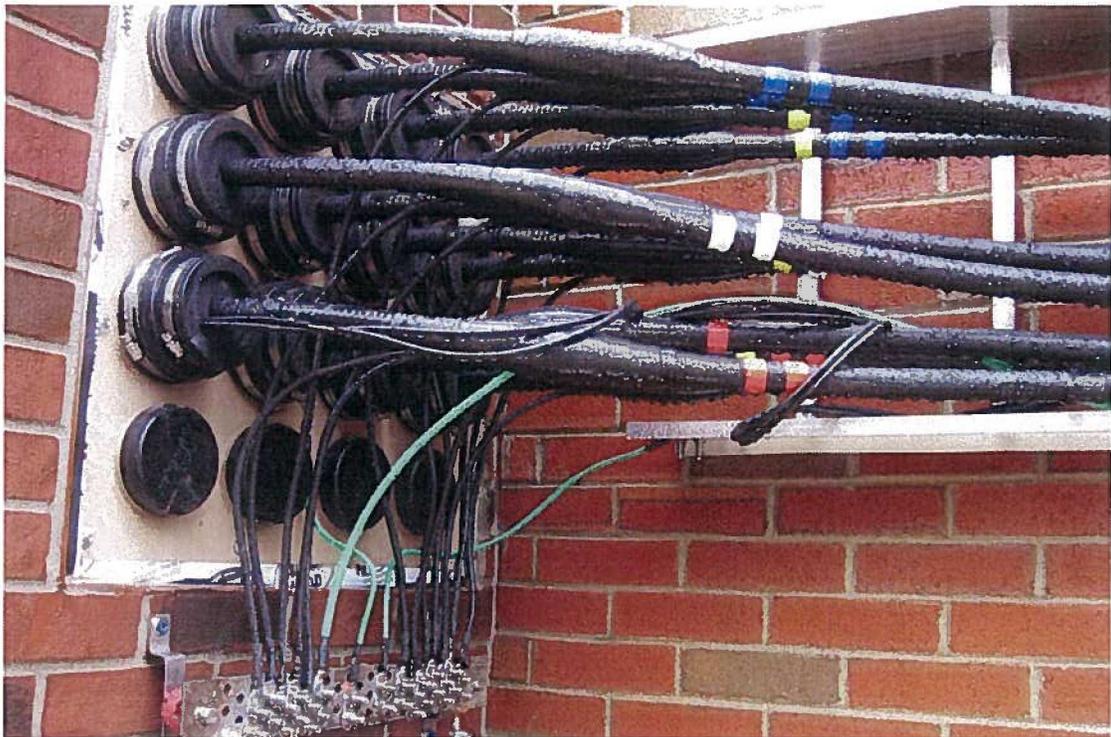
Coax entry port ground connection.



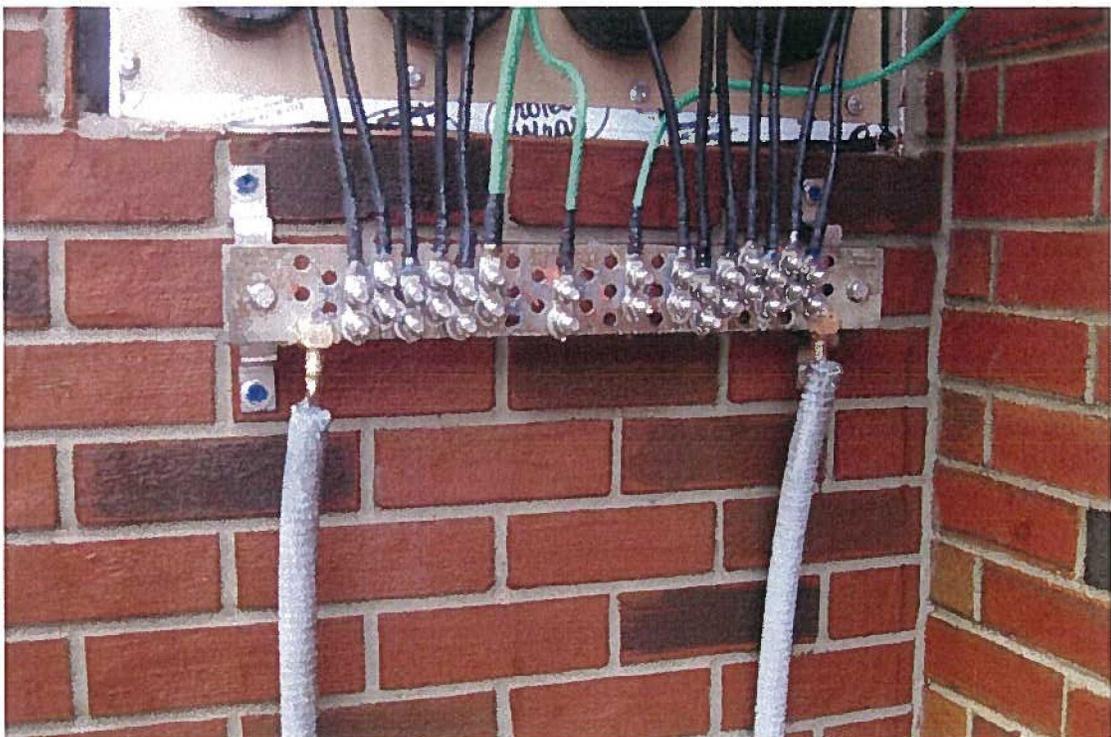
Outside coax entry port.



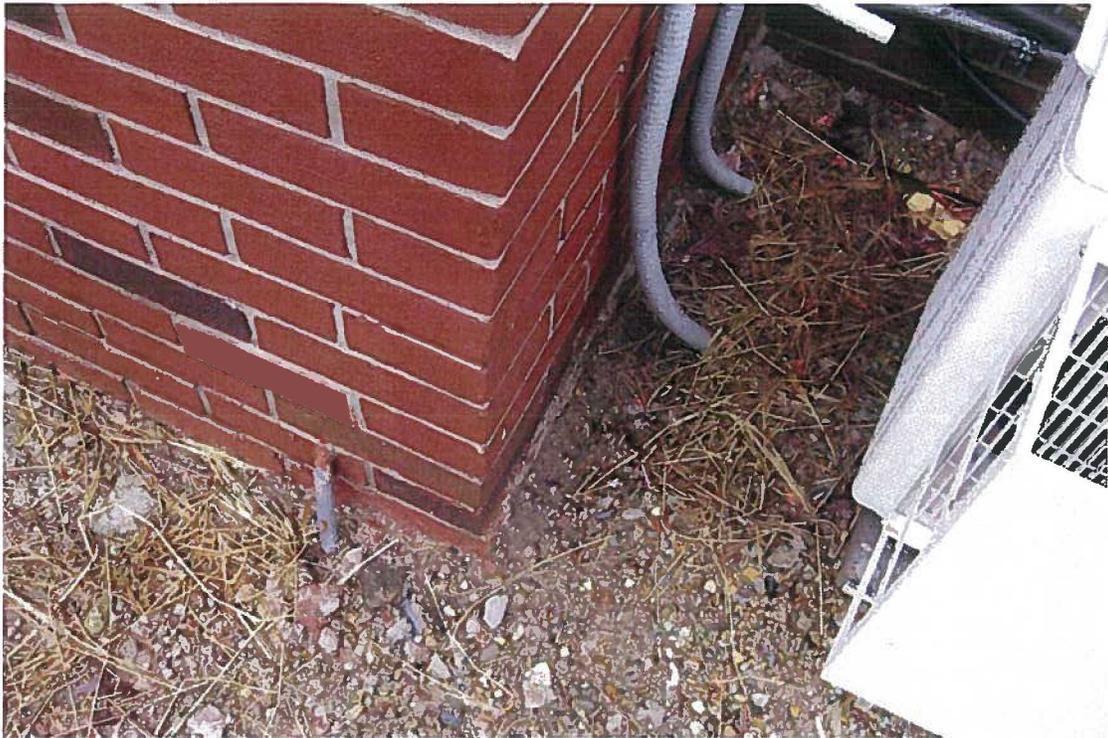
Outdoor HVAC unit.



Outside coax entry port.



Coax ground bar.



Ground leads to grounding ring.



Electric for HVAC unit.



Vertical cable tray up exterior wall of church.



Equipment room, vertical cable tray, HVAC unit, and GPS/LMU antennas.



Vertical cable tray, false roof chase for coax routing and GPS/LMU antennas.



Connection to existing electric service.



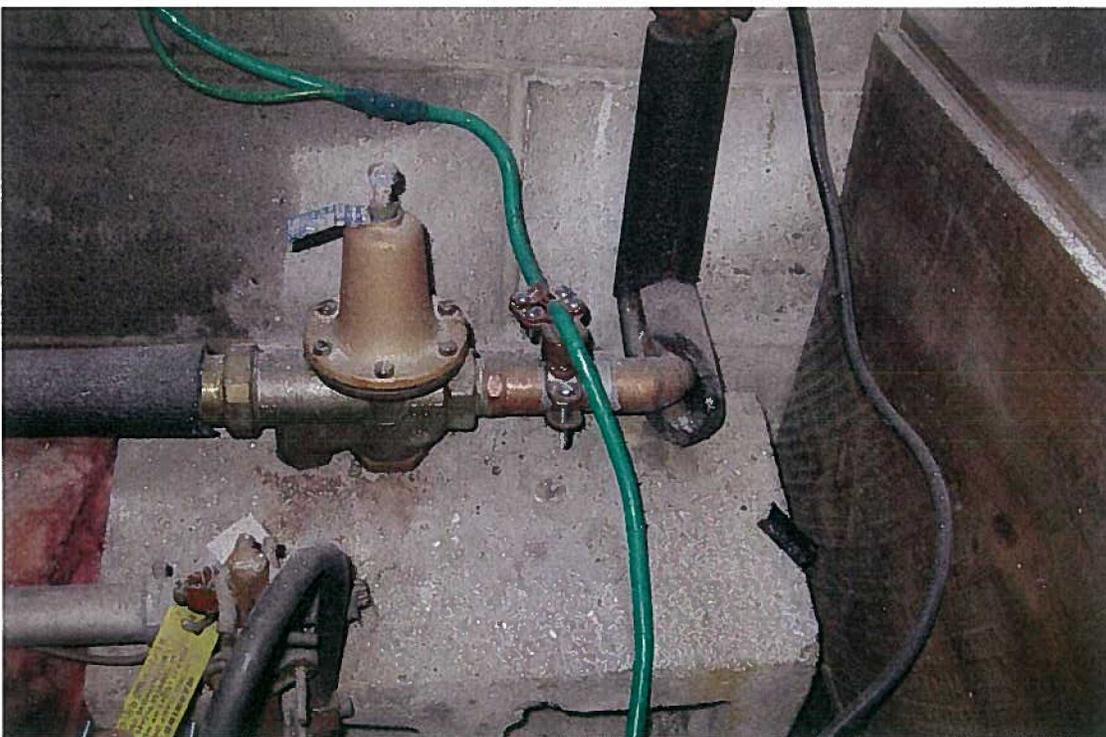
Electric meter and circuit breaker.



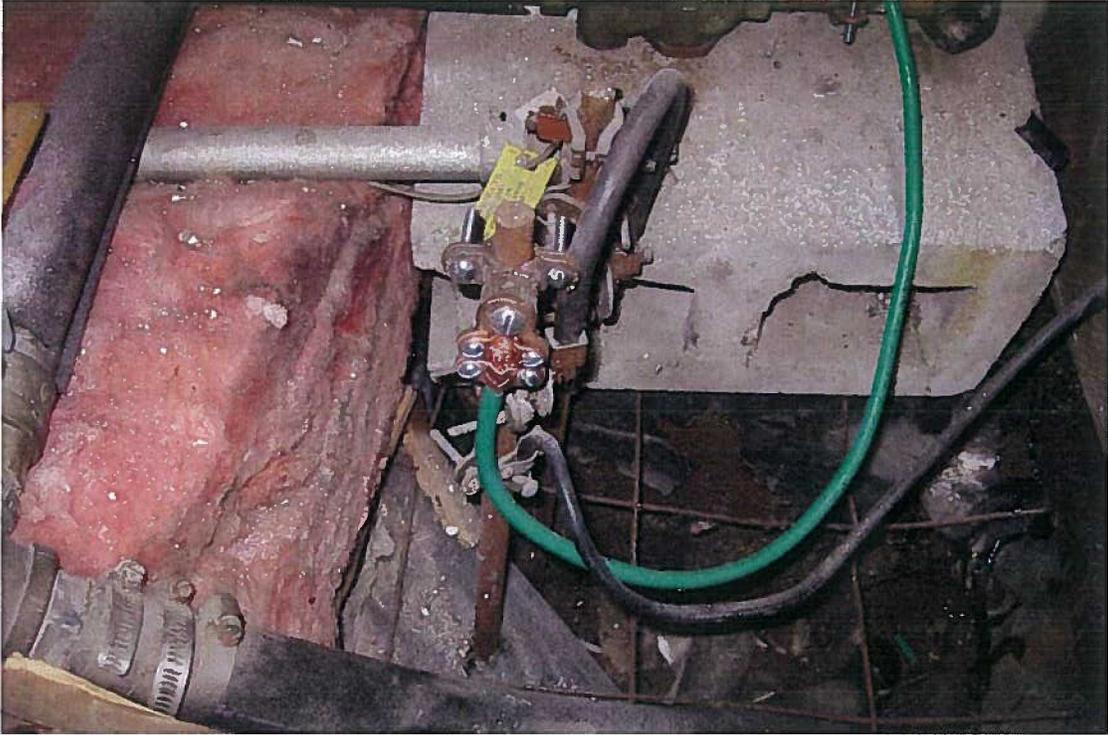
200 amp main circuit breaker.



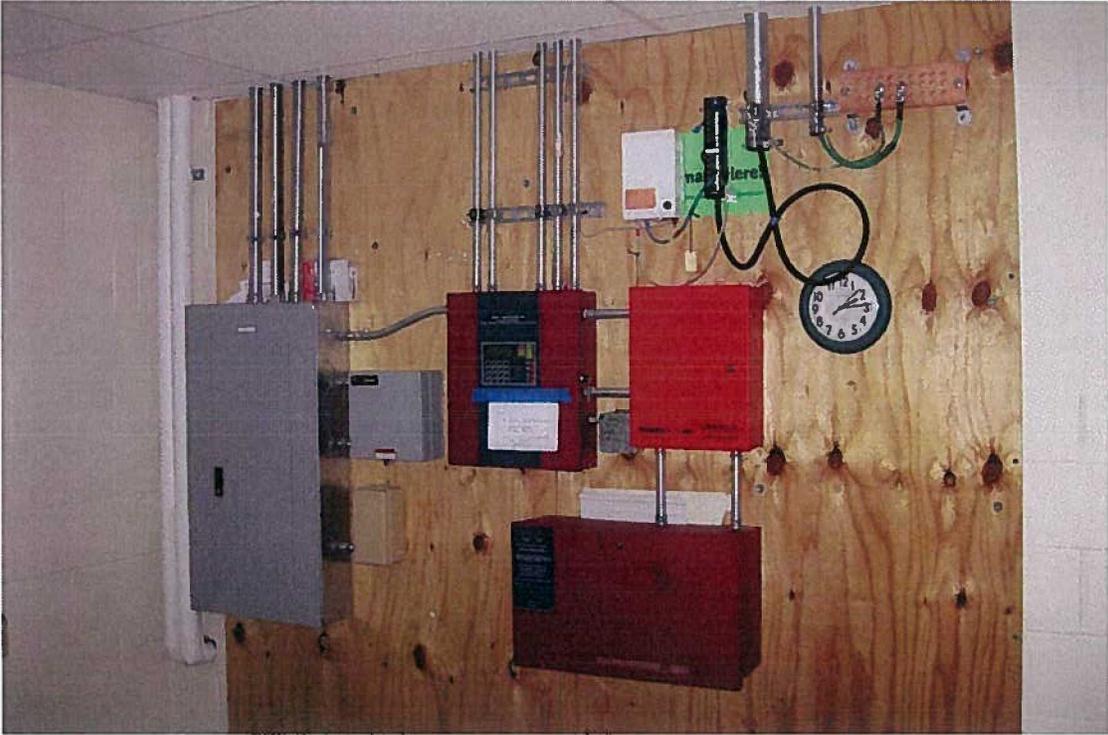
Ground connections to existing water main and ground rod.



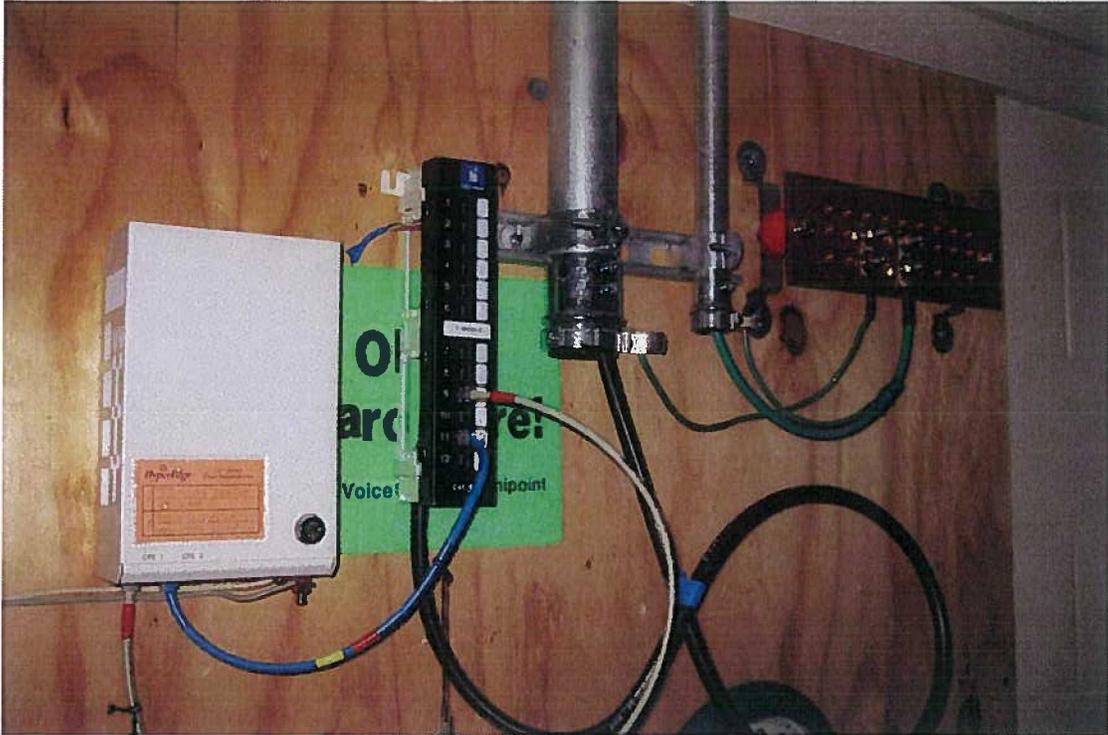
Ground connection to existing water main.



Ground connection to existing ground rod.



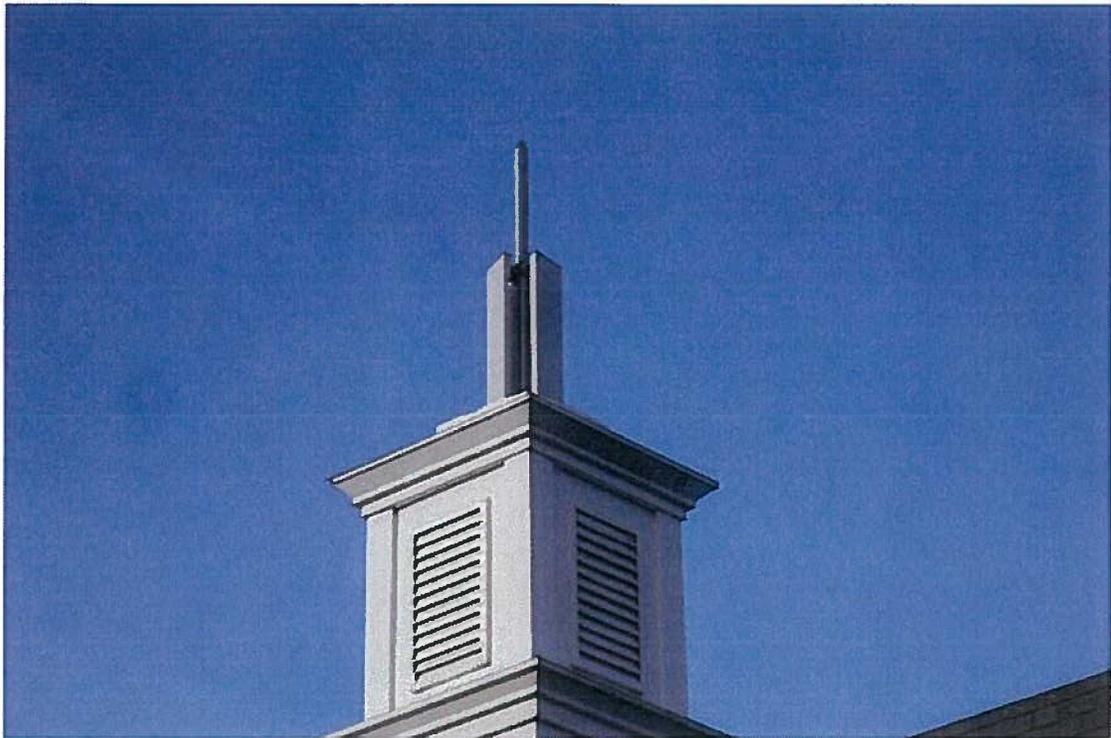
Connections to fire alarm panel and telco demarc.



Connections to telco demarc.



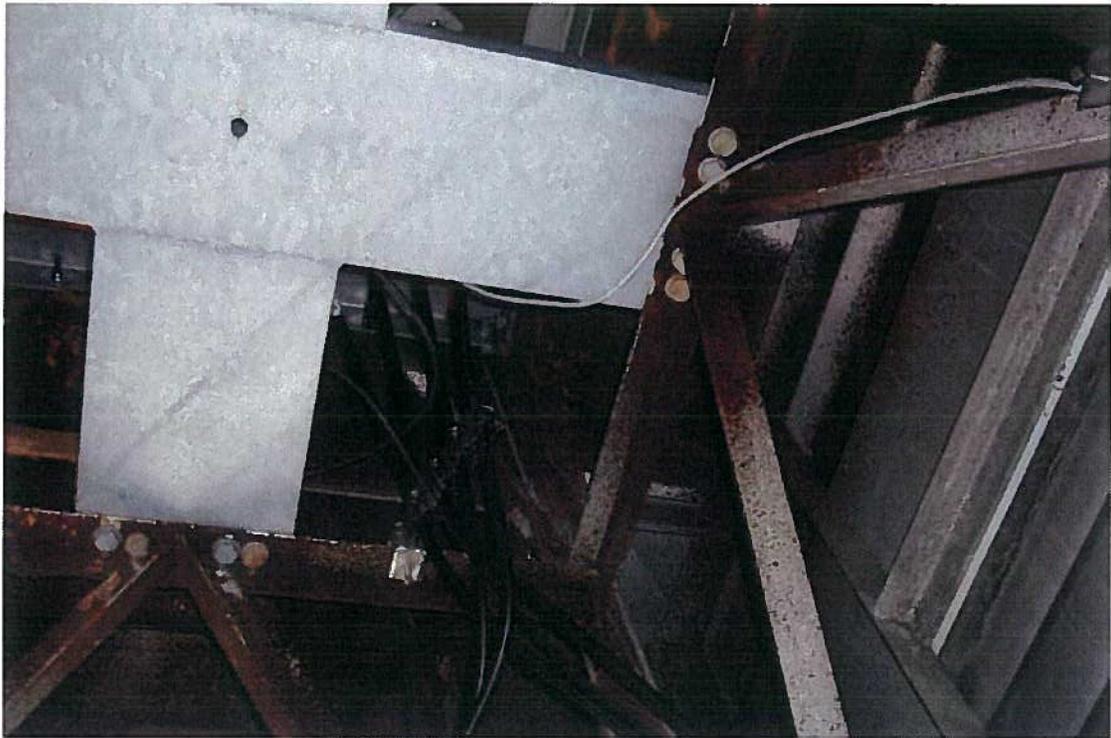
Antennas mounted within the steeple.



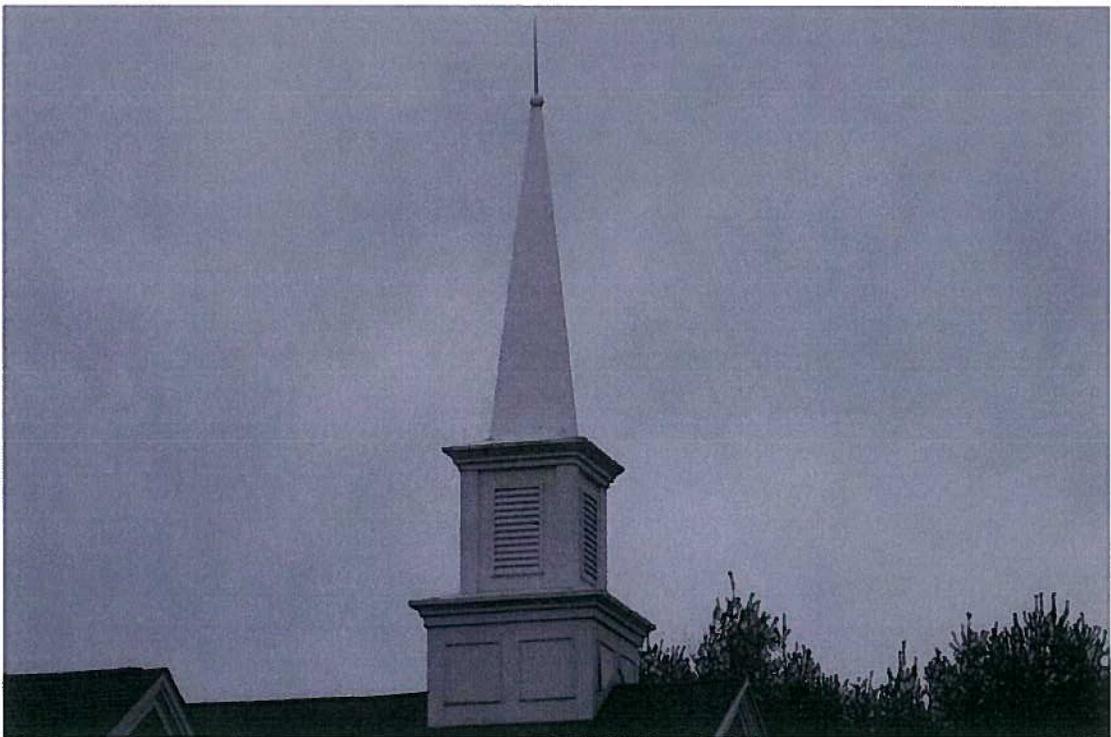
Antennas mounted within the steeple. (steeple removed)



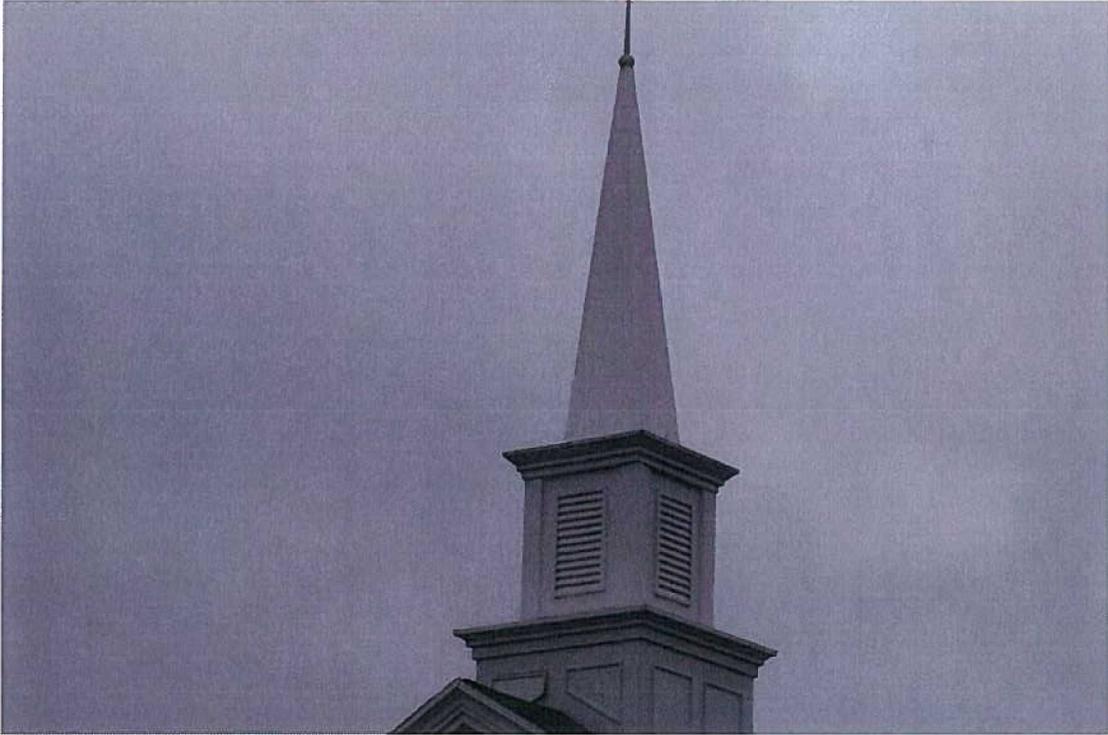
Antennas mounted within the steeple.



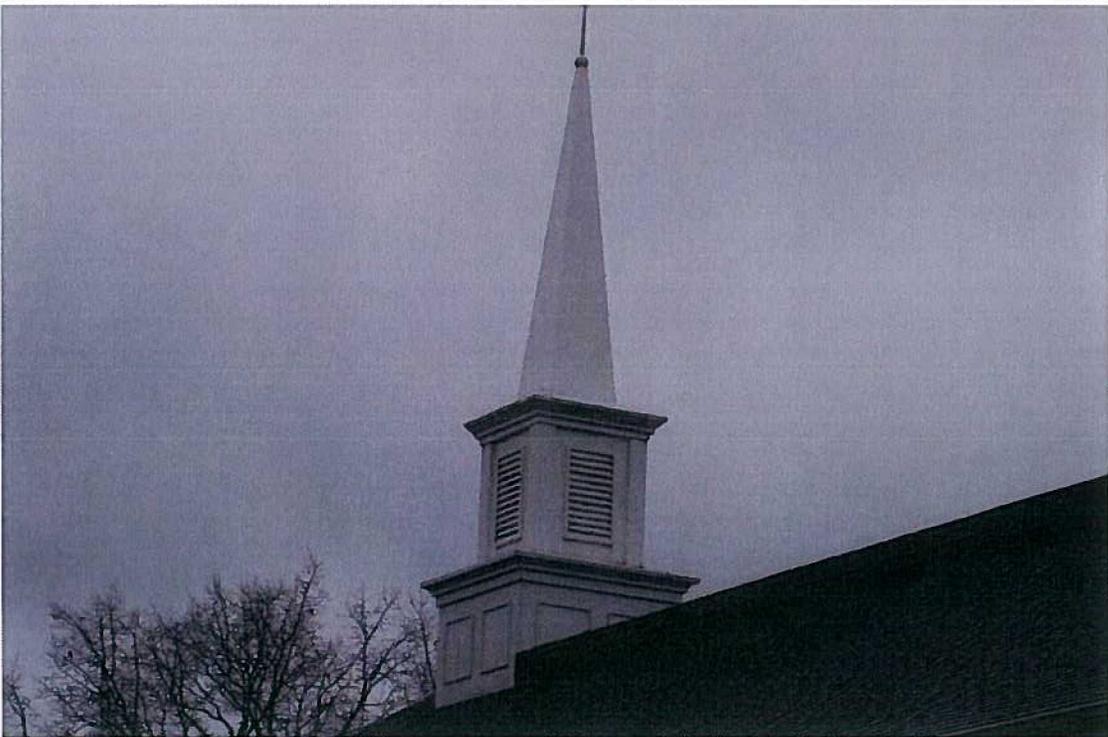
Antenna mounting plate connections.



Antennas mounted within the steeple.



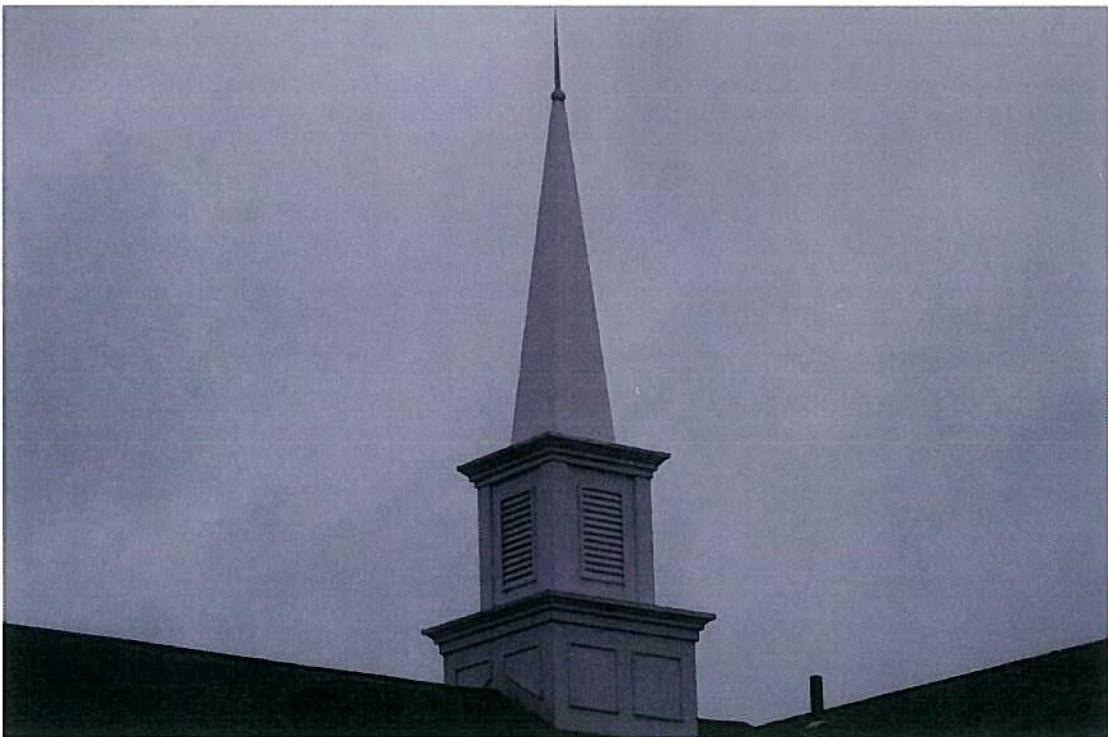
Antennas mounted within the steeple.



Antennas mounted within the steeple.



Antennas mounted within the steeple.



Antennas mounted within the steeple.