



180 E. 5th Street Building

Areaway roof slab/sidewalk paralleling 4th Street looking east

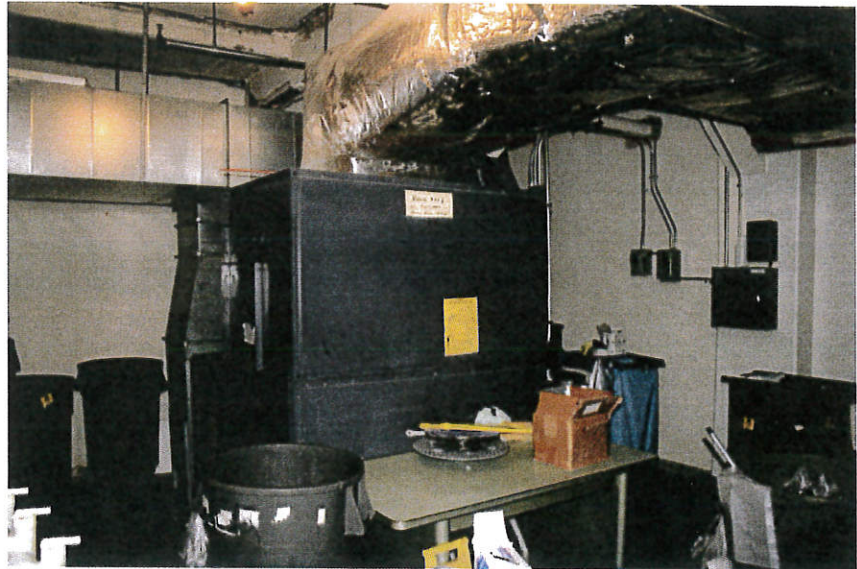
Feb. 2010
presented by Met Council
(and city?) on proposal
for dealing w/ Areaway

180 E. 5th Street Building

Areaway wall and ceiling looking south

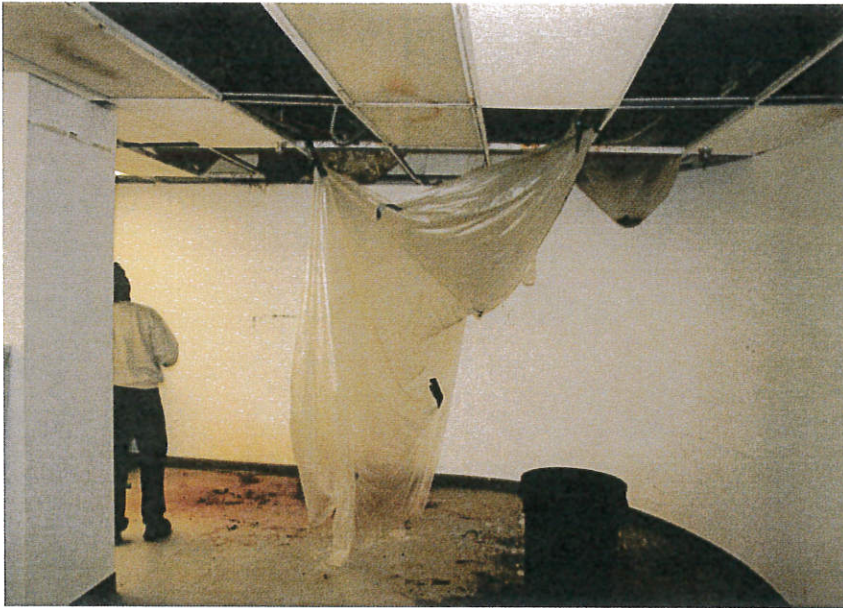


Areaway mechanical room with makeup air unit near proposed OCS location



180 E. 5th Street

Water leaking and damage at west end of areaway



Areaway outer wall showing signs of distress towards west end



180 East 5th Street Building

- **General Areaway Description**

- 8'-6" (W) x 245' (L)
- Height varies 13'-7" to 8'-3"
- Xcel Energy vault located at center of areaway
- Concrete slab, wall and roof slab.
- Concrete roof structure is constructed of a 6" structural slab topped with a 5" sidewalk slab.
- Roof and sidewalk slabs are in poor condition at west end of areaway.
- Wall shows some signs of distress at the west end of the areaway.
- A subbasement exists inboard of the areaway.
- Building utilities include electrical conduit, lighting, electrical vault, mechanical hvac ductwork and equipment, fire suppression, water and sewer lines.
- Areaway space is used for fire suppression, mechanical rooms, storage space, electrical vault and general office space.

180 E. 5th Street Building

- **LRT Equipment to be Installed**

- Four OCS Foundations
- Four Ornamental Lighting Poles
- One Signal Pole
- Two Signal Boxes

- **Equipment Installation Options**

- Ornamental lighting and signal poles may either be through bolted or attached to structural steel beams similar to existing conditions. OCS foundations may be installed using a 3'-4' augured concrete caisson.
- OCS pole #28100B should be moved if possible to accommodate location of existing make-up air unit.

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- **Areaway Modifications**

- Modifications required because of grade change and elevation change up to four tenths of a foot.
- Option 'A' would provide separate areaway roof structure and sidewalk slabs separated by a waterproofing membrane. Utilities would required to be temporarily supported and those in the way of equipment installations would require permanent relocation.
- Option 'B' would provide an abandoned areaway. A masonry wall may be built, areaway backfilled with granular material, compacted and capped with a single sidewalk slab. All utilities would be required to be relocated.

- **Estimate of Probable Construction Costs**

- Option 'A': \$303,700 (20% contingency included)
 - **Estimated Share \$ 12,714**
- Option 'B': \$301,500 (20% contingency included)
 - **Estimated Share \$ 87,868**