BERGER FOUNTAIN
MECHANICAL ROOM

Loring Park, Minneapolis
Dunwoody College of Technology
Studio 5
Fountain podium has severe leakage, bricks breaking, electrical failing and dangerous. Plywood enclosure has not experienced break-in or graffiti; occasionally stones are tossed by passerbys over the top and damage the light fixtures inside.
Metal trap door is located next to fountain podium
Needs replacement
Mechanical Room under fountain.

Fountain stem above

Structural sound to carry weight: 53.5 tons of water; plywood enclosure = 1.2 tons

36-inch reservoir holds recycled water

$60,000 water bill every 3 months

Fountain basis above leaks “like a shower” below
Mechanical Room under fountain

Electrical panel box very dangerous; needs replacement

City water intake

Main pump leaks

Two sand filter tanks
Access door
20” x 36”
253 “stems” require cleaning to ensure proper fountain spray

Spray nozzle is inserted into stem head
Underwater light fixtures
Underwater light fixtures must be totally submerged before turning on.
Plywood enclosure is installed prior to removing fountain “arms”; since it takes two – three days to remove the “arms”.

NOTE: Plywood enclosure used to extend 4-feet taller to hide fountain.
PLYWOOD ENCLOSEURE:

Size: 20-feet wide x 15-feet tall

Weight:
30 sheets 4x8 1/2” CDX = 960 sqft = $900 = 1,218 lbs
840 lineal feet of 2x4 = $245 = 1,075 lbs
75 bolts = 15 lbs

Total Enclosure = 2,308 lbs or 1.15 tons
Water = 12,818 gallons top podium
Water weight = 106,906 lbs = 53.5 tons
Installation of Plywood enclosure:
- Crane
- 6 laborers
- 4 days, not including washing/maintenance on fountain stems/arms
- Approx 253 stems
- Stems are stored in basement of Community Center
- Plywood frames stored off-site
Bucket trucks owned by Minneapolis Park & Recreation Board. Used for tree management and street/path lighting repair and lamp replacement.