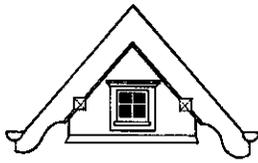


Downer Ave Comm. Dist.



Certificate of Appropriateness

LIVING WITH HISTORY Milwaukee Historic Preservation Commission/809 N. Broadway/PO Box 324/Milwaukee, WI 53201-0324/414-286-5712

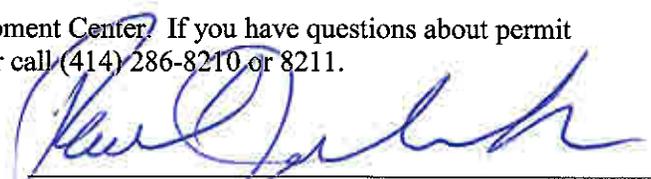
Property 2620 N. DOWNER AV.
Description of work Install new rear steel door and jamb facing N. Hackett Avenue. .
Date issued 11/13/2007 PTS ID 47067 COA, new rear door

In accordance with the provisions of Section 308-81(9) of the Milwaukee Code of Ordinances, the Milwaukee Historic Preservation Commission has issued a certificate of appropriateness for the work listed above. The work was found to be consistent with preservation guidelines. The following conditions apply to this certificate of appropriateness:

Work will be done according to attached photo.

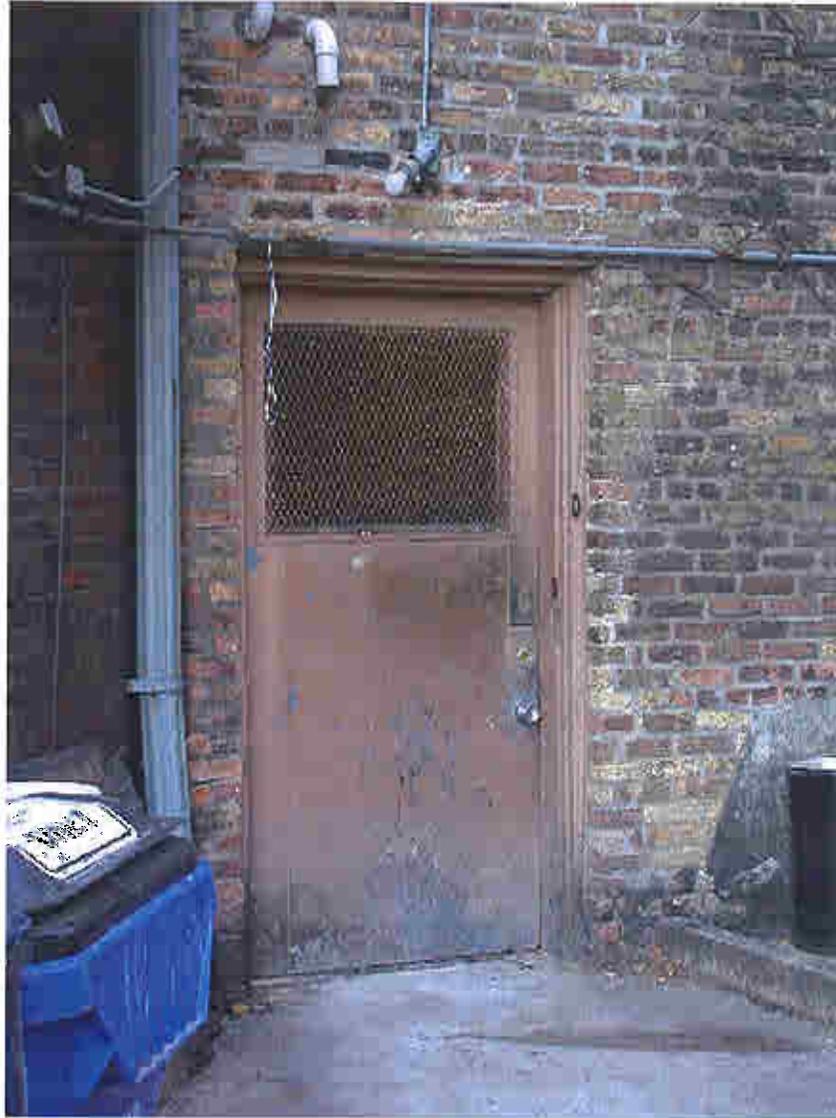
All work must be done in a craftsman-like manner, and must be completed within one year of the date this certificate was issued. Staff must approve any changes or additions to this certificate before work begins. Work that is not completed in accordance with this certificate may be subject to correction orders or citations. If you require technical assistance, please contact Paul Jakubovich of the Historic Preservation staff as follows: Phone: (414) 286-5712 Fax: (414) 286-0232 E-mail: pjakub@milwaukee.gov.

If permits are required, you are responsible for obtaining them from the Milwaukee Development Center. If you have questions about permit requirements, please consult the Development Center's web site, www.mkedcd.org/build, or call (414) 286-8210 or 8211.

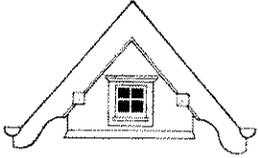


 City of Milwaukee Historic Preservation Staff

Copies to: Development Center, Ald. Michael D'Amato, Inspector Jim Friedrichs (286-5982)



Install new flush steel door and jamb in existing opening facing N. Hackett Avenue.



Certificate of Appropriateness

LIVING WITH HISTORY

Milwaukee Historic Preservation Commission/809 N. Broadway/PO Box 324/Milwaukee, WI 53201-0324/414-286-5705

Property 2620 N. DOWNER AV.

Description of work Replace one existing concrete column beneath ramp to second floor parking garage. (Park Place elevation)

Date issued 11/20/2006

PTS ID 38981 COA, new concrete column for ramp

In accordance with the provisions of Section 308-81(9) of the Milwaukee Code of Ordinances, the Milwaukee Historic Preservation Commission has issued a certificate of appropriateness for the work listed above. The work was found to be consistent with preservation guidelines. The following conditions apply to this certificate of appropriateness:

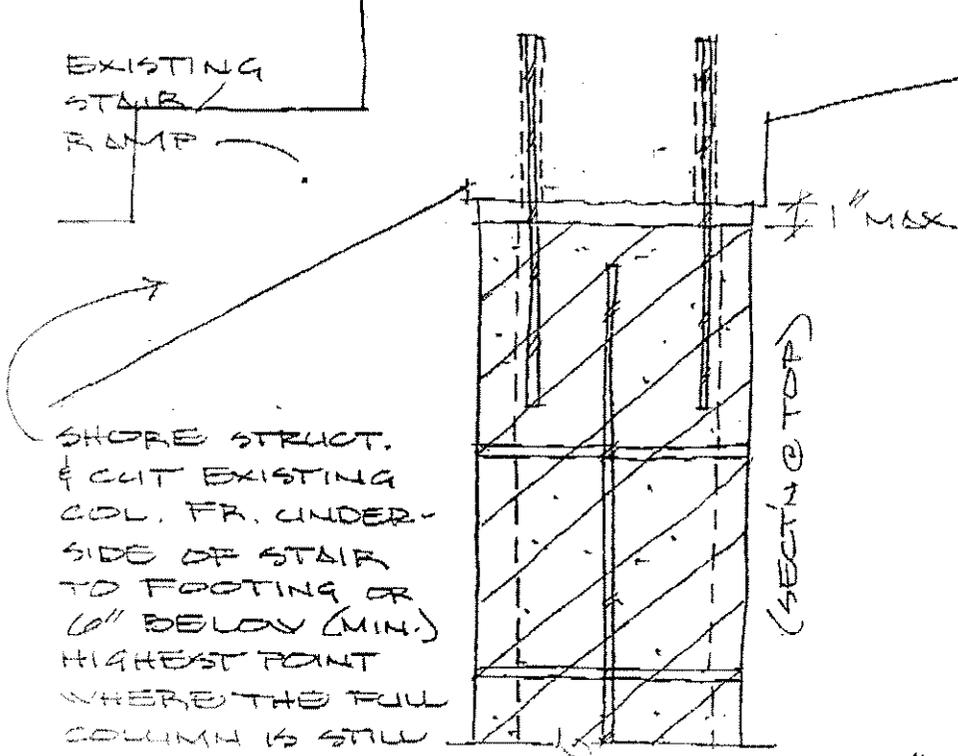
New column will be finished with chamfered corners and smooth cement plaster to match existing concrete column. Pier will be painted to match existing when finished and will appear as a solid monolith with no joints. All work will be done according to attached drawings.

All work must be done in a craftsman-like manner, and must be completed within six months of the date this certificate was issued. Staff must approve any changes or additions to this certificate before work begins. Work that is not completed in accordance with this certificate may be subject to correction orders or citations. If you require technical assistance, please contact Paul Jakubovich of the Historic Preservation staff as follows: Phone: (414) 286-5712 Fax: (414) 286-0232 E-mail: pjakub@mkedcd.org.

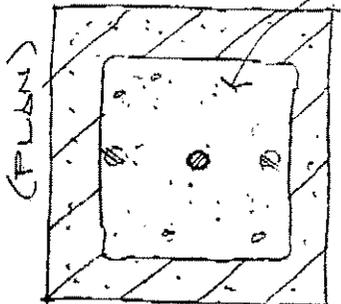
If permits are required, you are responsible for obtaining them from the Milwaukee Development Center. If you have questions about permit requirements, please consult the Development Center's web site, www.mkedcd.org/build, or call (414) 286-8210.

City of Milwaukee, Historic Preservation Staff

Copies to: Development Center, Ald. Michael D'Amato, Contractor Masonry Restoration Incorporated, Inspector Jim Friedrichs (286-5982)



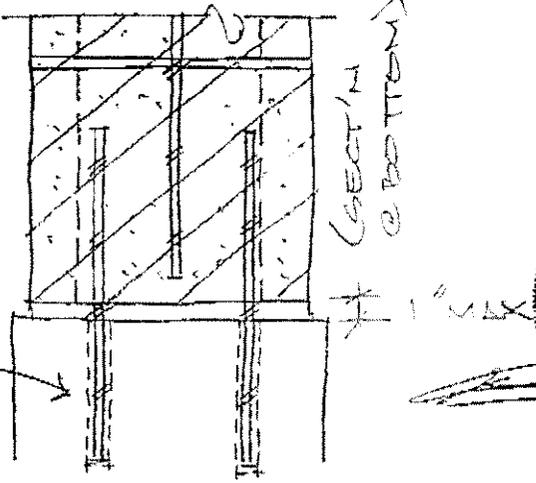
SHORE STRUCT.
 & CUT EXISTING
 COL. FR. UNDER-
 SIDE OF STAIR
 TO FOOTING OR
 6" BELOW (MIN.)
 HIGHEST POINT
 WHERE THE FULL
 COLUMN IS STILL
 INTACT



8" x 8" SINGLE CELL
 CMU PIER W/ (1) #5
 FULL HT. (TO W/IN 2"
 OF EXIST'G CONC. - TAB)

GROUT SOLID W/
 3000 PSI GROUT -
 FULL HT.

DRAIL & EPOXY
 DOVEY IN (2) #5's
 6" MIN. EMBEDMT
 INTO EXIST'G
 CONCRETE (4" MIN.
 INTO CMU)
 TOP & BOTTOM



11/10/00

By: RF



EXT. COLUMN RETROFIT:

APPROX. SUPPT'D LOAD -

$$DL: [(10' \times 8' + (48''/2 - 8'') \times 8'') \times 15' (150 \text{ PCF}) / 144] / 2$$

$$+ [(6' \cos 30^\circ) + (7 \times 12/2) \cos 30^\circ] \times 48 / 144 \times 150 \text{ PCF} \times 12/4$$

$$= 2000 + 1232 = 3232 \#$$

$$LL: 100 \text{ PSF} (4' / 2) (15' + 12') / 2 = 2700 \#$$

$$\Sigma R_g = P_{col.} = 5932 \#$$

(TOTAL STAIR WT. \approx 12.93 k - REMAINDER TO GRD. & WALL)

PIER DESIGN; (IN CMU)

$$H_{COL.} \leq 12.0' \sin 30^\circ \approx 6.0'$$

\forall 8" x 8" PIER;

$$f'_m \geq 1500 \text{ psi}$$

$$E_m \geq 1.5 \cdot 10^6 \text{ psi}$$

$$F_s = 20 \text{ ksi}$$

$$F_m \geq 0.7 (1500) = 1050 \text{ psi}$$

$$V_m = 23 \text{ psi (TYPEN)}$$

$$F_t = 10 \text{ psi}$$

$$P = 5.94 \text{ k}$$

$$M_{max} \approx 0; \text{ USE } 200 \# \text{ } \bar{P}_2 @ \leq 42" \text{ (40 MIDHT.)}$$

$$= 3000 \text{ IN} \#$$

$$f'_m = f'_c = 1500 / (7.625^3 / 6) = 48.7 \text{ psi}$$

[REINFG REQ'D]

$$f_a = 5.94 / (7.625^2) = 102 \text{ psi [OK]}$$

$$F_a \geq .18 f'_m [1 - (\frac{6}{20(.67)})^3] = 2107 \text{ psi}$$

$$A_{req} = M / F_s j d = 1500 / [(20000) .89 (7.625/2)]$$

$$= .073 \text{ IN}^2$$

($\phi < 1.005$; USE 0.291)

USE 1N 8" x 8" CMU PIER \forall (1) #5 @ ϕ
GROUT \forall \geq 11000 psi f'_c SOLID, TYP.



11/10/06