



Certificate of Appropriateness

LIVING WITH HISTORY

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

Property

101 E. KILBOURN AV.

Description of work

Remove all structural steel of the bridge except the bascule girdlers install new steel bridge deck with an appearance similar to the existing. Install new Ipe wood sidewalks. Install new crash barrier between roadway and sidewalk. Spot replace stone balusters as needed. Replace stone blocks on bridge houses. Bells will be made operational and will sound when the bridge is raised and lowered. The signal balls will be fixed permanently in the up position. Windows and doors in the bridge houses will be replaced with new, historically accurate metal units. The bridge houses will be externally illuminated at night.

Date issued

5/2/2008

PTS ID 37285 COA, rebuild, restore Kilbourn bridge over the Milwaukee river

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:

All work to be done according to the attached drawings.

The major change to the appearance of the bridge will be the installation of crash barriers between the sidewalk and the roadway, (see drawings attached) however these features are necessary to bring the structure up to the prevailing codes.

Care should be taken to replace any damaged stone on the bridge houses with matching new stone that is carefully finished to the specifications of the original stones. Most of the stones are called "ashlars" and are characterized by a subtle grooving of their surfaces, which elegantly catches the light and cast small shadows on the face of the stone. Replacement of the stone balusters should be held to a minimum.

Any new mortar used to repair the bridge houses should match the original in terms of color, texture and hardness. Research has shown that when new mortar that is too hard is installed in an old wall, that premature failure of the new mortar is likely to occur.

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.



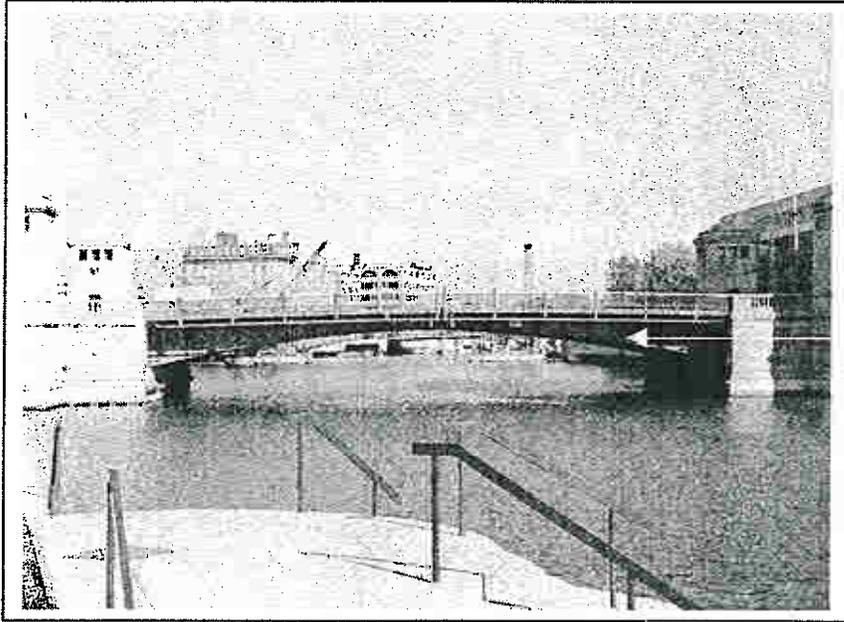
City of Milwaukee Historic Preservation Staff

Copies to: Development Center, Ald. Robert Bauman, Contractor, Inspector Bill Richter (286-2518)

CERTIFICATE OF APPROPRIATEMENTS APPLICATION FORM ATTACHMENT A
KILBOURN AVENUE BASCULE BRIDGE
Kilbourn Avenue at the Milwaukee River

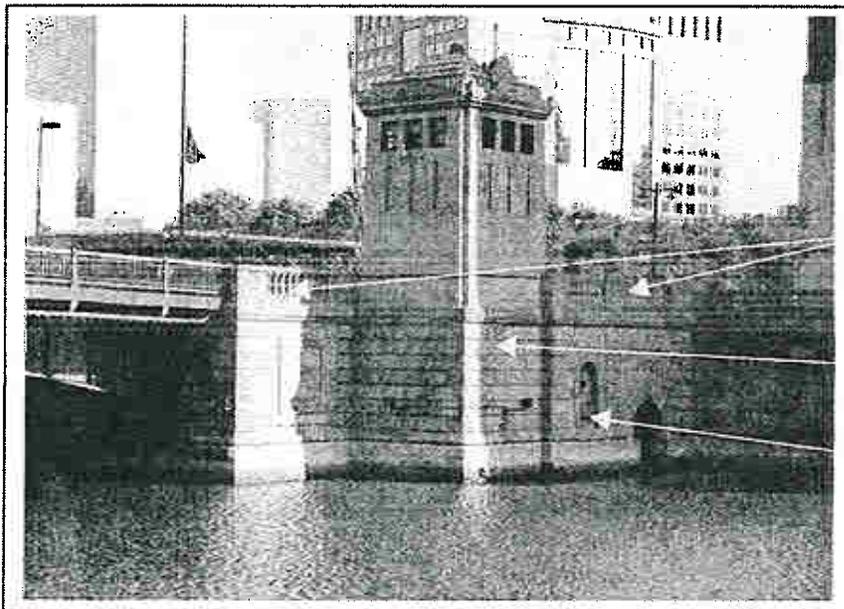
July 2006

Existing Conditions



Structural steel,
except girders, to be
removed and replaced

Photo #1 Bridge Span looking South



Sections of damaged
existing balustrade to
be repaired or replaced

Damaged limestone to
be repaired or replaced

Pier doors to be
replaced with doors to
match original type

Photo #2 Southeast Pier

CERTIFICATE OF APPROPRIATEMENTS APPLICATION FORM ATTACHMENT A
KILBOURN AVENUE BASCULE BRIDGE
Kilbourn Avenue at the Milwaukee River

July 2006

Existing Conditions



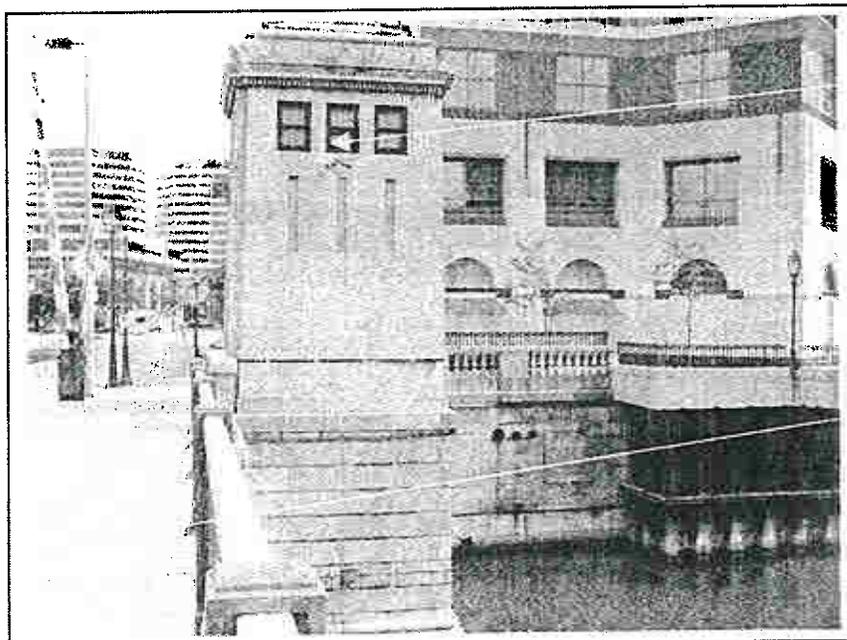
Existing windows to be replaced

Existing door to be replaced

Existing railing to be rehabilitated

Existing sidewalk decking to be replaced with ipe wood

Photo #3 Railing and Northeast Pylon



Existing windows to be replaced

Existing sidewalk decking to be replaced with ipe wood

Photo #4 Sidewalk decking, Pier and Southeast Bridgehouse

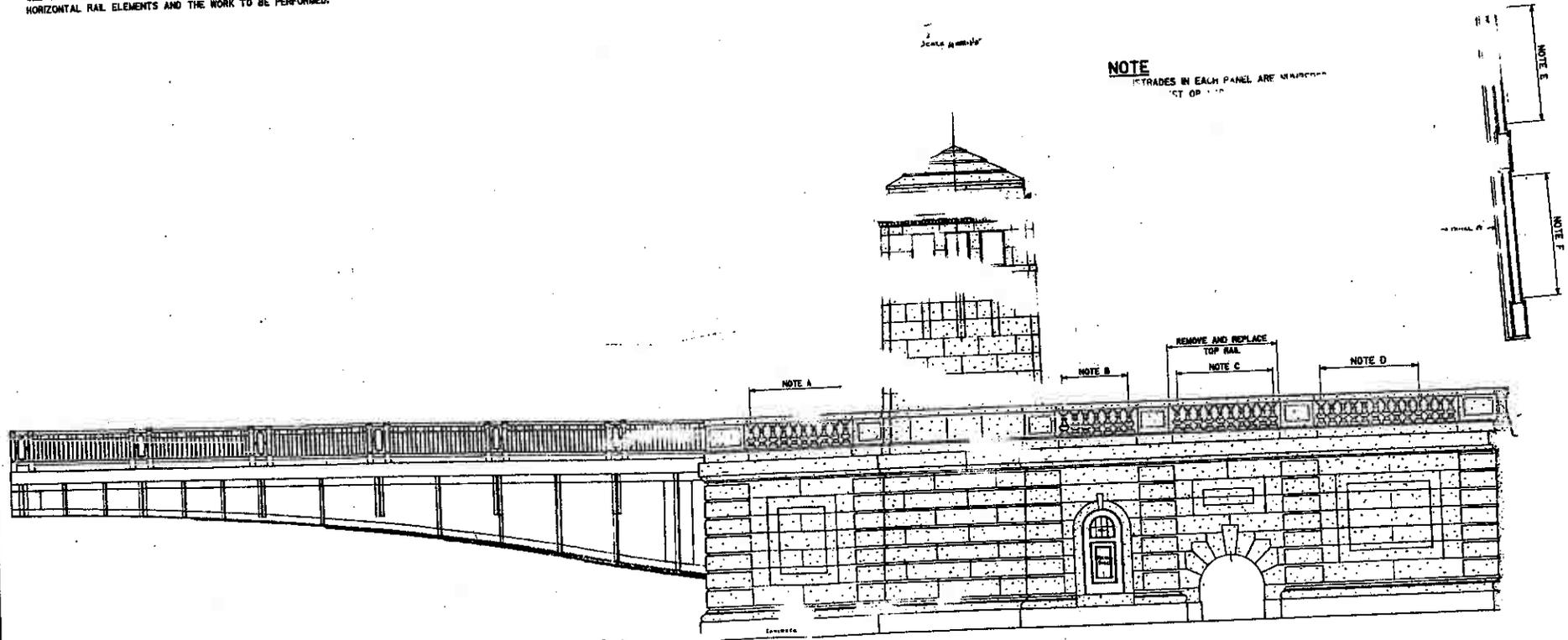
NOTES

- NOTE A: 10 BALUSTRADES TOTAL, REPLACE NONE; PATCH NONE
 - NOTE B: 7 BALUSTRADES TOTAL, REPLACE NONE; PATCH NUMBERS 2,3,4,5,6
 - NOTE C: 10 BALUSTRADES TOTAL, REPLACE NUMBERS 6,8,9,10; PATCH NUMBER 3.
 - NOTE D: 13 BALUSTRADES TOTAL, REPLACE NUMBERS 2,4,7,9,10,13; PATCH NUMBERS 5,8.
 - NOTE E: 11 BALUSTRADES TOTAL, REPLACE ALL. EXISTING ARE CONCRETE REPLACEMENTS OF ORIGINALS.
 - NOTE F: 11 BALUSTRADES TOTAL, REPLACE ALL. EXISTING ARE CONCRETE REPLACEMENTS OF ORIGINALS.
- SEE SPECIAL PROVISIONS FOR FIELD INSPECTION OF TOP AND BOTTOM HORIZONTAL RAIL ELEMENTS AND THE WORK TO BE PERFORMED.

OPERATORS HOUSE

NOTE

BALUSTRADES IN EACH PANEL ARE SHOWN IN SECTION



NORTHWEST ELEVATION

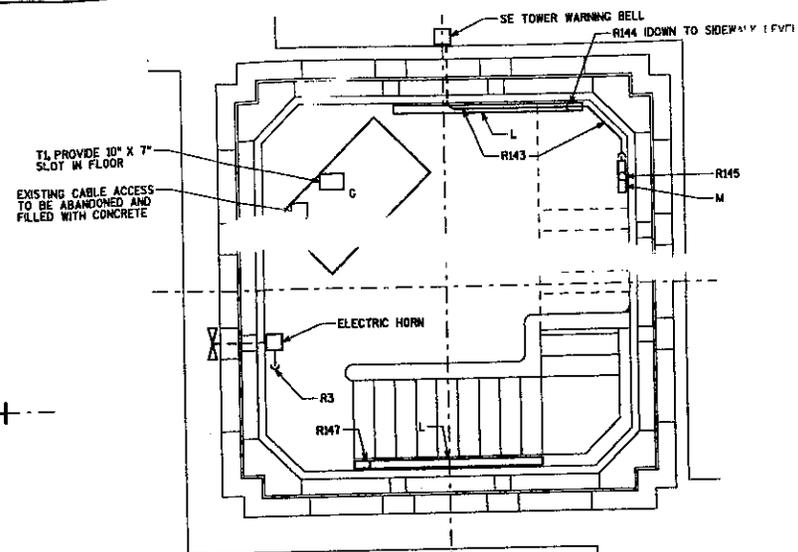
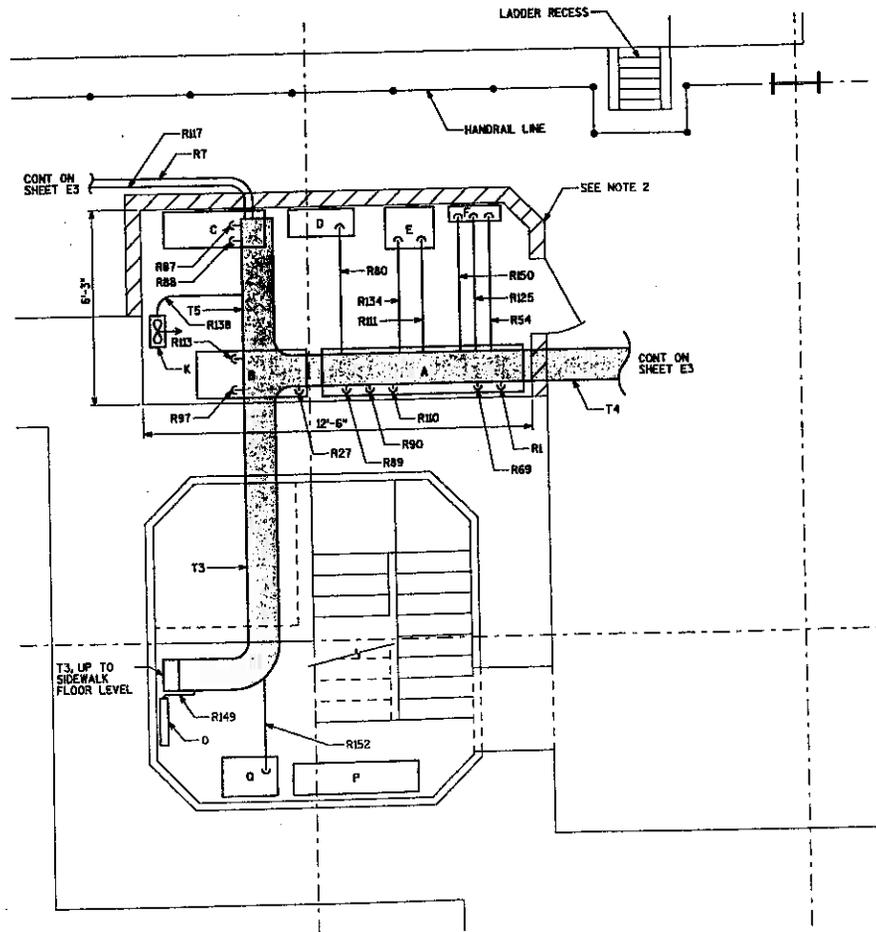
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE P-40-881			
CONSTR. SPEC.	2004	DRAWN BY WJ	PLANS CKD. GK/BT
STONE RAILING REPAIR			SHEET A14 OF A27
(1 OF 4)			

REVISIONS

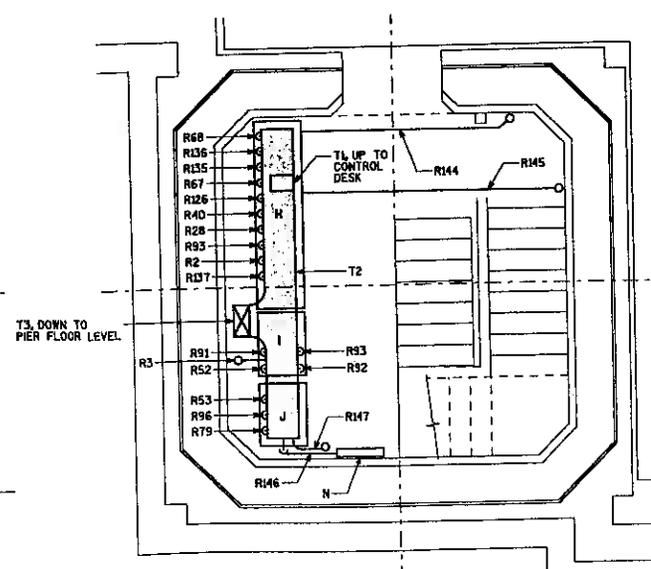


EQUIPMENT LEGEND

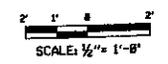
- A. SWITCH BOARD CABINET
- B. 208 VOLT CABINET
- C. MANUAL TRANSFER SWITCH
- D. MAIN DISCONNECT SWITCH
- E. TRANSFORMER TX-1
- F. PANEL BOARD LP-1
- G. CONTROL CONSOLE
- H. PLC CABINET
- I. EAST SPAN DRIVE CONTROLLER
- J. WEST SPAN DRIVE CONTROLLER
- K. UNIT HEATER UH-4
- L. UNIT HEATER UH-1A & B
- M. TOWER WARNING BELL CONTROLLER
- N. UNIT HEATER UH-2
- O. UNIT HEATER UH-3
- P. SPARE PARTS CABINET
- Q. AUDIO/VIDEO ELECTRONICS RACK



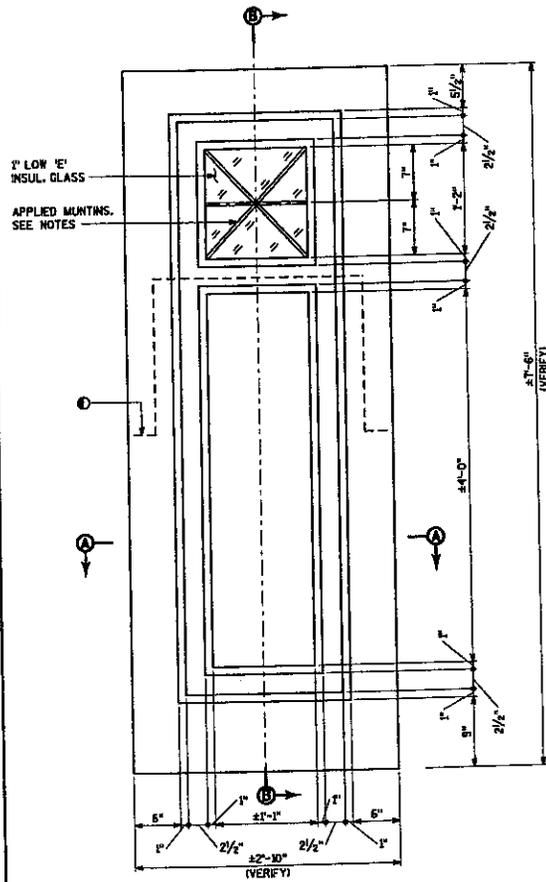
SE OPERATORS FLOOR PLAN
EL. 30.75



- NOTE:
1. SEE SHEET E25 FOR SYMBOL LEGEND.
 2. REFER TO SHEET 18 FOR ADDITIONAL STRUCTURAL DETAILS OF ELECTRICAL EQUIPMENT ROOM.
 3. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS OF THE CONTROL TOWER REPAIRS.



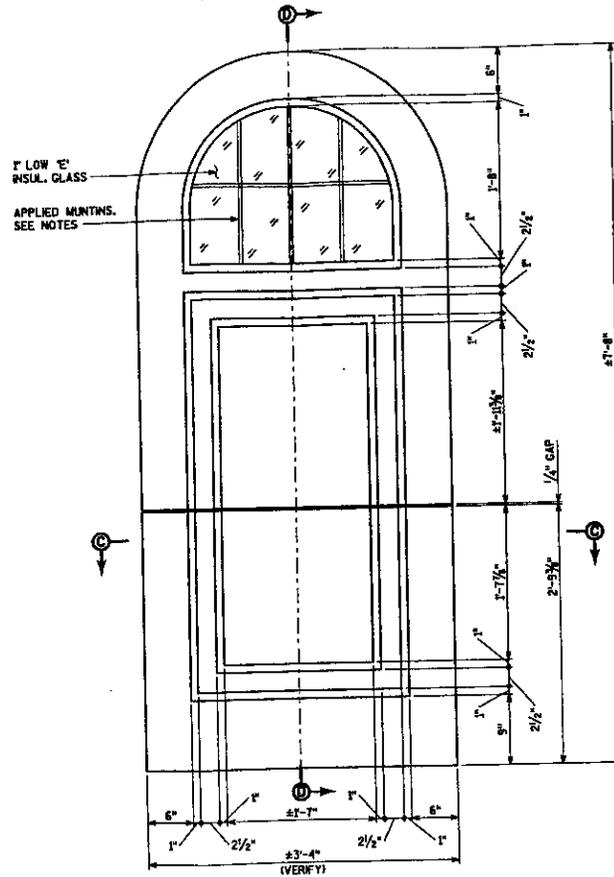
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE P-40-881			
CONSTR. SPEC.	2004	DRAWN BY JRH	PLANS CKD. GLP



ELEVATION - DOOR D-1



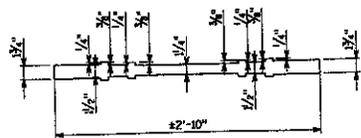
SECTION B-B - DOOR D-1



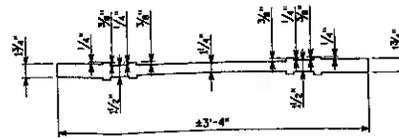
ELEVATION - DOOR D-2



SECTION D-D - DOOR D-2



SECTION A-A - DOOR D-1



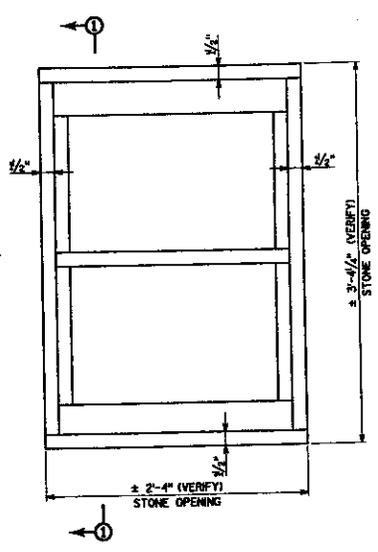
SECTION C-C - DOOR D-2

NOTES

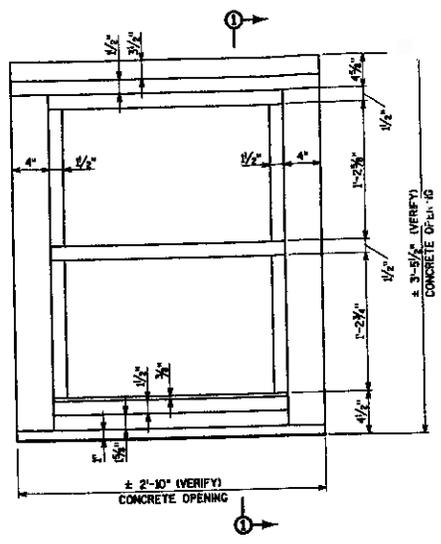
- APPLIED MUNTINS BOTH SIDES OF THERMALLY INSULATED GLAZING UNITS TO BE 1/2" WIDE, 16 GA, STAINLESS STEEL.
- TAPE MUNTIN GRID TO THE GLAZING UNIT. PROVIDE INTERNAL MUNTIN GRID TO MATCH COLOR OF MUNTIN.
- INSTALL GLAZING WITH APPLIED GRID TO DOOR, SNAP IN GLAZING FRAME AT PERIMETER.
- VERIFY RADII ■ DOOR D-2 FOR EACH DOOR OF THIS TYPE.
- ① MANUFACTURER TO BUILD IN CHANNEL FOR WIRING TO GO FROM ELECTRICAL HINGE TO LOCKSET. HARDWARE GROUP 6 - HW AND SE BRIDGE HOUSES ONLY.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE P-40-881			
CONSTR. SPEC.	2004	DRAWN BY TB	PLANS CKD. CK/BT
BRIDGE HOUSE			SHEET ABA OF A27

Volume 16 E

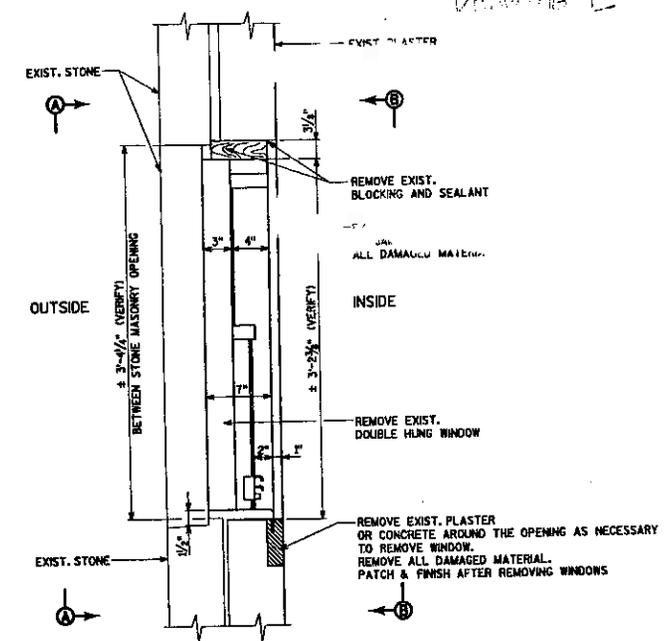


**EXISTING
EXTERIOR ELEVATION - VIEW A**
ELEVATION OUTSIDE NE-SW BRIDGE HOUSES.
NW-SE BRIDGE HOUSES SIMILAR



**EXISTING
INTERIOR ELEVATION - VIEW B**
ELEVATION INSIDE NE-SW BRIDGE HOUSES.
NW-SE BRIDGE HOUSES SIMILAR

EXISTING WINDOWS DETAILS



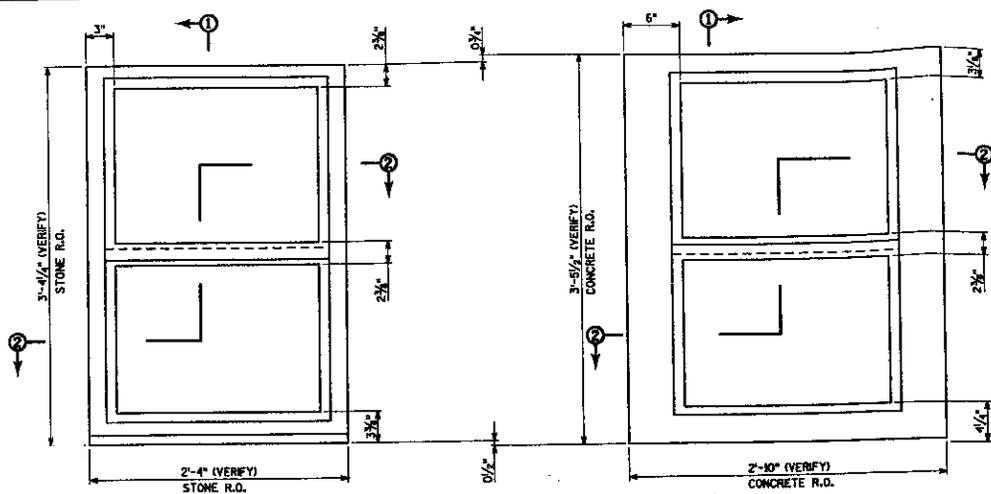
**SECTION 1-1
EXISTING WINDOW REMOVAL DETAIL**
NE-SW BRIDGE HOUSES.
NW-SE BRIDGE HOUSES WINDOW REMOVAL SIMILAR

NOTES

INTERIOR AND EXTERIOR MASONRY OPENINGS VARY IN SIZE AT EACH WINDOW AND OPENING SIZES VARY FROM WINDOW TO WINDOW.
NORTH WEST AND SOUTH EAST BRIDGE HOUSE WALLS HAVE PLASTER FINISH.
NORTH EAST AND SOUTH WEST BRIDGE HOUSE WALLS HAVE CONCRETE FINISH.
WINDOW CONTRACTOR TO VERIFY ALL OPENING SIZES AND ALL EXISTING CONDITIONS AND PROVIDE WINDOW REMOVAL SHOP DRAWINGS FOR OWNER'S APPROVAL.

NO ADDITIONAL PAYMENT WILL BE MADE IF THE EXISTING CONDITIONS ARE DIFFERENT FROM WHAT IS SHOWN ON THIS SHEET.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE P-40-881			
CONST. SPEC.	2004	DRAWN BY TB	PLANS CKD, GK/BT
BRIDGE HOUSE DOORS AND WINDOWS (3 OF 5)			SHEET 480 OF 427

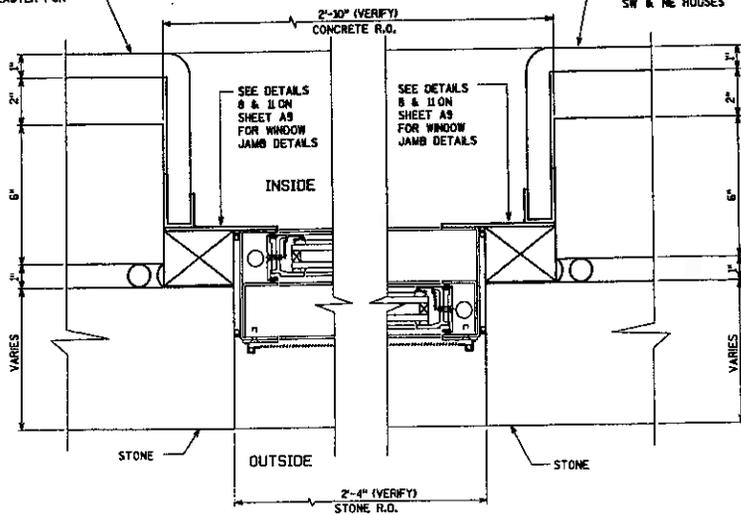


NEW WINDOW
EXTERIOR ELEVATION - VIEW A
 ELEVATION OUTSIDE NE-SW BRIDGE HOUSES.
 NW-SE BRIDGE HOUSES SIMILAR

NEW WINDOW
INTERIOR ELEVATION - VIEW B
 ELEVATION INSIDE NE-SW BRIDGE HOUSES.
 NW-SE BRIDGE HOUSES SIMILAR

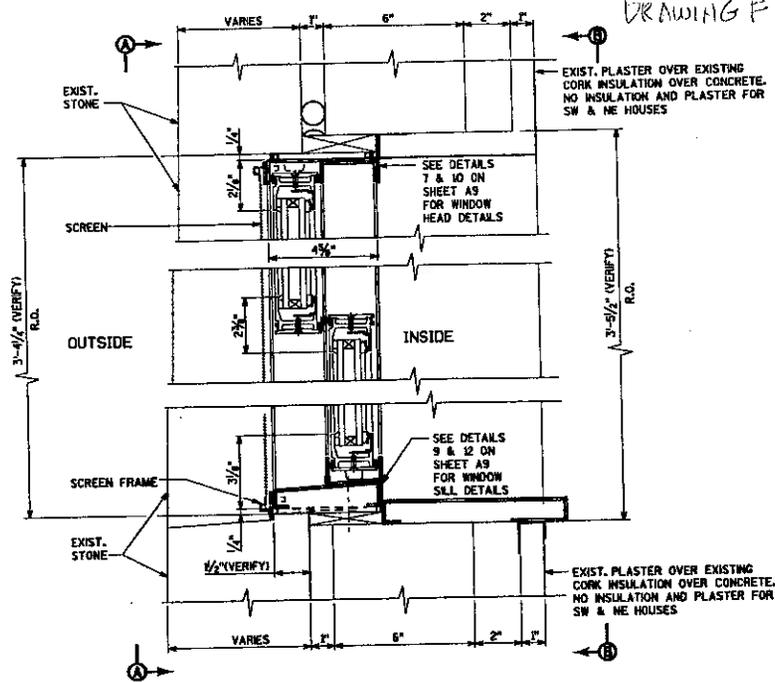
EXIST. PLASTER OVER EXISTING
 CORK INSULATION OVER CONCRETE.
 NO INSULATION AND PLASTER FOR
 SW & NE HOUSES

EXIST. PLASTER OVER EXISTING
 CORK INSULATION OVER CONCRETE.
 NO INSULATION AND PLASTER FOR
 SW & NE HOUSES



SECTION 2-2
NEW WINDOW DETAIL
 NE-SW BRIDGE HOUSES.
 NW-SE BRIDGE HOUSES WINDOWS SIMILAR

NEW DOUBLE HUNG STEEL WINDOWS



SECTION 1-1
NEW WINDOW DETAIL
 NE-SW BRIDGE HOUSES.
 NW-SE BRIDGE HOUSES WINDOWS SIMILAR

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE P-40-881			
CONST. SPEC.	2004	DRAWN BY TB	PLANS CKD. GK/BT
BRIDGE HOUSE DOORS AND WINDOWS			SHEET ABC OF A27
(4 OF 5)			