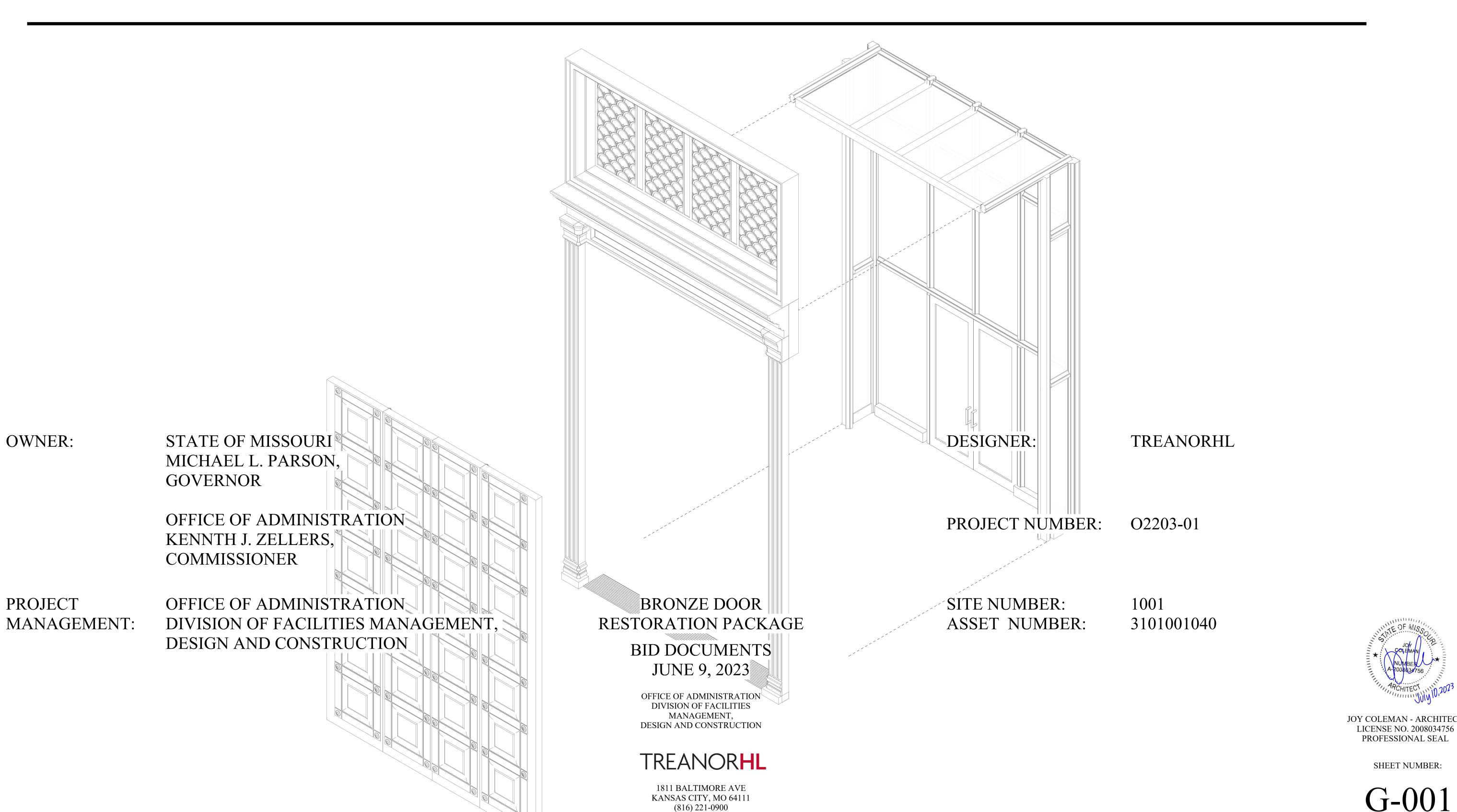
# BRONZE DOOR RESTORATION

## MISSOURI STATE CAPITOL BUILDING JEFFERSON CITY, MISSOURI



(816) 221-0900 COA: 2020027110

1 OF 12 SHEETS JUNE 9, 2023

 WORK REQUIRED AS PART OF THIS PROJECT SHALL BE PERFORMED IN THE BUILDING AND ON THE BUILDING GROUNDS WHILE OCCUPIED. COMPLY WITH SCHEDULING REQUIREMENTS AS OUTLINED IN THESE CONSTRUCTION DOCUMENTS.

2. BUILDING HOURS OF OPERATION ARE MONDAYS THROUGH FRIDAYS 8:00AM - 5:00PM. 3. SEQUENCE WORK SO THAT THE MEANS OF EGRESS ARE

MAINTAINED AT ALL TIMES. 4. PROVIDE SEQUENCING PLAN TO AND GAIN APPROVAL FROM OWNER PRIOR TO START OF WORK. COORDINATE CONSTRUCTION SEQUENCE WITH BUILDING EVENTS AND

OCCUPANT LOCATION. 5. SEPARATE CONTRACTS FOR CONSTRUCTION HAVE BEEN AND/OR MAY BE AWARDED FOR WORK THAT FALLS WITHIN THE LIMITS OF CONSTRUCTION. THESE CONTRACTS HAVE BEEN OR MAY BE COMPLETED DURING THE SAME PERIOD AS THE WORK. COORDINATE WITH THE WORK IN THESE CONTRACTS, WHERE APPLICABLE. COOPERATE FULLY WITH SEPARATE CONTRACTORS SO WORK ON THESE CONTRACTS MAY BE CARRIED OUT SMOOTHLY, WITHOUT INTERFERING WITH OR DELAYING WORK IN THIS CONTRACT. THE SEPARATE PACKAGES THAT HAVE BEEN OR WILL BE AWARDED ARE LISTED IN

THE SUMMARY SECTION OF THE PROJECT MANUAL 6. SEQUENCE EACH WORK AREA WITH OWNERS REPRESENTATIVE TO ALLOW ADEQUATE TIME FOR COORDINATION. PARKING, SITE STORAGE, STAGING AREAS, AND CRANE LOCATION TO BE DISCUSSED AT PRE-

CONSTRUCTION MEETING. 7. REFERENCE SUMMARY SECTION OF PROJECT MANUAL FOR WORK SEQUENCE REQUIREMENT.

### SUMMARY OF WORK

THE PROJECT WILL PROVIDE FOR THE RESTORATION CLEANING, AND REFINISHING OF ALL THREE OF THE BRONZE DOORS ON THE SOUTH PORTICO OF THE MISSOURI STATE CAPITOL

THIS INCLUDES FULL CLEANING AND RESTORATION OF ALL DOORS, FULL REPAIRS TO EAST AND WEST POCKET BRONZE DOORS, AND FULL REPAIR TO THE CENTER BRONZE DOOR, INCLUDING BOTH THE INNER AND OUTER PANEL OF EACH OF THE DOORS' LEAVES. OPERATIONAL DEFICIENCIES AFFECTING THE BRONZE DOORS ARE TO BE CORRECTED THROUGH REPAIRS, RECONSTRUCTION OF PARTS, AND REMOVAL AND REINSTALLATION. ALL LATCHING, HINGING, AND HARDWARE MISALIGNMENT ISSUES WILL BE CORRECTED SO THAT THE DOORS CAN BE COMPLETELY FUNCTIONAL. PREVIOUS IN-DEPTH DIAGNOSTIC WORK WAS PERFORMED WITH THE NECESSARY TOOLS TO GAIN ACCESS TO KEY INTERNAL COMPONENTS AND PARTS, IN ORDER TO FULLY DIAGNOSE THE MALFUNCTIONING CONDITIONS. PROPER CLEANING, RESTORATION, AND PRESERVATION OF ALL BRONZE DOOR, FRAME, TRANSOM, AND ALL OTHER BRONZE COMPONENTS IN ORDER TO REMOVE ALL STAINING AND DETERIORATION AND FULLY RESTORE THE PATINA FINISH TO THE ORIGINAL STATUARY BRONZE FINISH IS TO BE COMPLETED.

THE BASE/ALTERNATE SCOPE OF WORK OF THE PROJECT IS DEFINED BELOW:

#### BASE BID WORK:

REMOVE THE FOUR LEAVES OF THE HISTORIC BRONZE MONUMENTAL BI-FOLD DOORS (C200) FROM THE OPENING TO ALLOW FOR PROPER RESTORATION WITH THE INTENT OF HAVING THE DOORS FULLY OPERATIONAL, AS ORIGINALLY DESIGNED, ASSESS, DIAGNOSE, RECONSTRUCT. AND/OR REPLACE THE FOUR PIVOT HINGES. REAM OUT THE PIVOT HOUSING. PROVIDE AND INSTALL NEW PIVOT ASSEMBLIES. REPLACE AND INSTALL

INTERMEDIATE HINGES BETWEEN MEETING LEAF AND CARRYING LEAF. COMPLETELY REMOVE THE DOORS FROM THE OPENING, TRANSPORT TO A FACILITY OFF SITE, AND LAY FLAT FOR HINGE WORK AND ALL OTHER WORK TO BE COMPLETED. REMOVE THE OUTER CAST BRONZE PANELS OF DOOR C200, LEAVES 1, 2, 3, AND 4, FROM THE INNER STEEL FRAME SO THAT THE FRAME CAN BE ASSESSED FOR DEFICIENCIES IN ITS RIGIDITY, INTEGRITY, AND CONSISTENCY IN LEVEL & PLUMB. THE INNER FRAMES OF EACH LEAF REQUIRE REPAIR, ALTERATION, PARTIAL RECONSTRUCTION OR COMPLETE OVERHAUL. ASSUME COMPLETE OVERHAUL FOR BIDDING PURPOSES. MODIFY OR ADJUST THE RECEIVER FOR THE MEETING LEAF ATTACHMENT TO ALLOW FOR SMOOTH OPERATION. FABRICATE ANY MISSING BRONZE TRIM, BRONZE DECORATIVE ELEMENT, OR HARDWARE THAT IS MISSING AND REPLACE IN KIND. PROVIDE AND INSTALL A TEMPORARY, WEATHER TIGHT, WATERPROOF, INSULATED, SECURE ENCLOSURE DURING THE OFF-SITE RESTORATION. SEE 024119 "SELECTED DEMOLITION" AND 080311-01 & 02 "HISTORIC TREATMENT OF BRONZE DOORS" FOR MORE SPECIFIC INFORMATION REGARDING TEMPORARY ENCLOSURE.

REMOVE THE THRESHOLD ASSEMBLY AT THE CENTER MONUMENTAL BRONZE DOOR IN ITS ENTIRETY. SUSPECTED WATER/MOISTURE INFILTRATION HAS DAMAGED THE ASSEMBLY. RESULTING IN SIGNIFICANT RUST JACKING. EXAMINE THE EXISTING CONDITIONS BENEATH THE THRESHOLD WITH FOCUS ON THE BOTTOM PIN/PIVOT AND STEEL CHANNEL. REMOVE (E) EPOXY FILL IN (E) STEEL CHANNEL. REPLACE (E) STEEL CHANNEL WITH STAINLESS STEEL MEMBER. USING MODERN MEANS AND METHODS, THE

THRESHOLD SHOULD BE PROPERLY RESTORED AND REINSTALLED TO ENSURE DOORS' PROPER, INTENDED FUNCTION.

CAREFULLY AND COMPLETELY DISASSEMBLE THE WOOD & GLASS VESTIBULE BEYOND THE BRONZE BI-FOLD DOORS AND THE TWO POCKET NICHES TO PROVIDE ACCESS FOR THE REMOVAL OF THE BRONZE BI-FOLD DOOR INTERIOR CASING TRIM AND TWO BRONZE POCKET NICHES WITH BRONZE SOFFIT PANELS. AFTER REPAIR WORK REINSTALL THE BRONZE BI-FOLD DOORS, THE TWO POCKET NICHES, THE WOOD & GLASS VESTIBULE AND REASSEMBLE TO MATCH THE ORIGINAL LAYOUT AND CONSTRUCTION.

COMPLETELY REMOVE THE SLIDING POCKET DOORS FROM THE OPENING AND PROPERLY RESTORE. CLEAN THE SLIDING DOOR POCKETS AND INSPECT THE TROLLEY AND RAILS. CLEAN, ADJUST, AND RETURN THE REPLACEMENT TROLLEYS RAILS, BOLTS, PINS, AND HARDWARE TO SMOOTH OPERATION.

ONCE THE MONUMENTAL BI-FOLD BRONZE DOORS HAVE BEEN REMOVED, CONSTRUCT A TEMPORARY, WEATHER TIGHT, WATERPROOF, INSULATED, SECURE ENCLOSURE WITHIN THE OPENING. CONSTRUCT WHITE-PAINTED PLYWOOD AND WOOD FRAMED WALL WITH AN OPENING FEATURING A HOLLOW METAL DOUBLE DOOR, KEYED, INCLUDING A REMOVABLE MULLION. DURING THE OFF-SITE RESTORATION OF THE BRONZE DOORS. ONCE THE POCKET BRONZE DOORS HAVE BEEN REMOVED, BUILD A SIMILAR TEMPORARY ENCLOSURE WITHIN THE OPENINGS. CONSTRUCT WHITE-PAINTED PLYWOOD AND WOOD-FRAMED WALL WITH NO ACCESS DOOR. REMOVE AND VERIFY PROPER LOCATION OF THRESHOLD AND RE-SECURE IN

ORIGINAL LOCATION.

ALTERNATE #1 WORK:

PIN AND FILL CRACKS AND HOLES IN THE EXTERIOR LIMESTONE LINTEL ABOVE THE BRONZE BI-FOLD DOORS. SEE 040342 "HISTORIC STONE MASONRY REPAIR"

**ALTERNATE #2 WORK:** 

INSTALL CARD READERS AND (N) DOOR HARDWARE ON EXISTING VESTIBULE DOORS TO ALLOW FOR STAFF TO ENTER FROM THE EXTERIOR WHEN THE BRONZE DOORS ARE OPEN (N) HARDWARE INCLUDES MAG-LOCKS, CLOSERS, POWER SUPPLIES, AND REQUEST TO EXIT SENSORS. INTEGRATE (N) CARD READERS AND DOOR HARDWARE TO (E) SECURITY SYSTEM. SEE 087100 "DOOR HARDWARE" AND 281000 "ACCESS CONTROL".

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A201 **EXTERIOR ELEVATION - BRONZE DOORS** A301 PARTIAL CROSS SECTION & INTERIOR BRONZE DOOR **ELEVATIONS** A401 CENTRAL VESTIBULE

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HARDWARE SCHEDULE - E200 & W200 INTERIOR WOOD DOOR ELEVATIONS & HEADER CRACK

> REVIT FILE: DRAWN BY: CHECKED BY: VK DESIGNED BY: Jo

INDEX OF DRAWINGS

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 

JOY COLEMAN - ARCHITECT LICENSE NO. A-2008034756 PROFESSIONAL SEAL

**OFFICE OF ADMINISTRATION DIVISION OF FACILITIES** MANAGEMENT, **DESIGN AND** CONSTRUCTION

BRONZE DOOR RESTORATION

MO STATE CAPITOL BUILDING 201 W CAPITOL AVE

JEFFERSON CITY, MO 65101

PROJECT # O2203-01

SITE# 1001 ASSET # 3101001040

**REVISION:** DATE: **REVISION:** DATE: **REVISION:** DATE:

ISSUE DATE: 06/09/2023

SHEET TITLE:

SHEET NUMBER:

2 OF 12 SHEETS

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR** 

**ADMINISTRATION DIVISION OF FACILITIES** MANAGEMENT.

RESTORATION

MO STATE CAPITOL BUILDING

3101001040 ASSET#

DATE: DATE:

ISSUE DATE: 06/09/2023 REVIT FILE: XXX

CHECKED BY: VK DESIGNED BY: JO

PROJECT DATA

OF 12 SHEETS

JOY COLEMAN - ARCHITECT LICENSE NO. A-2008034756 PROFESSIONAL SEAL

**OFFICE OF DESIGN AND CONSTRUCTION** 

**BRONZE DOOR** 

201 W CAPITOL AVE JEFFERSON CITY, MO 65101

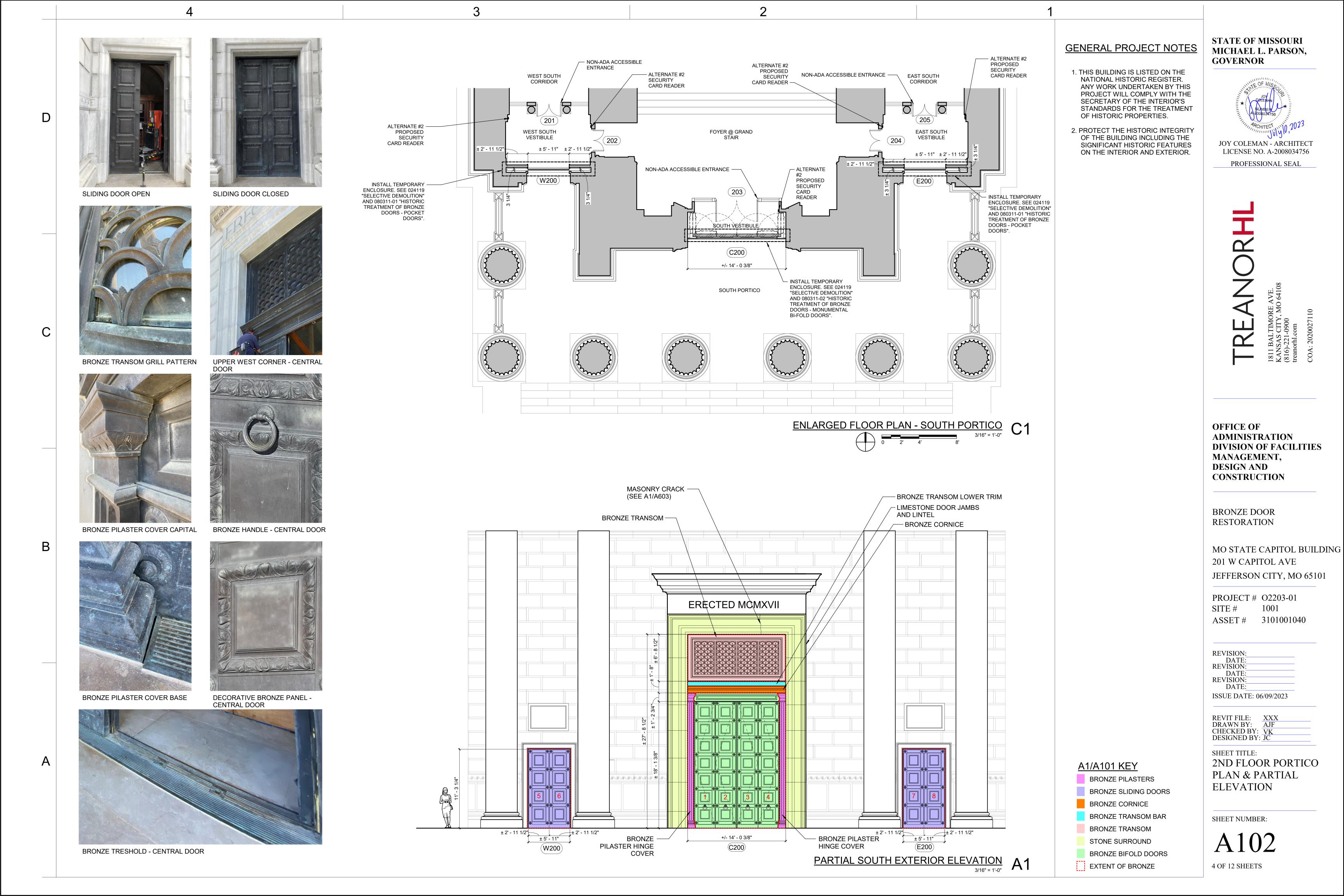
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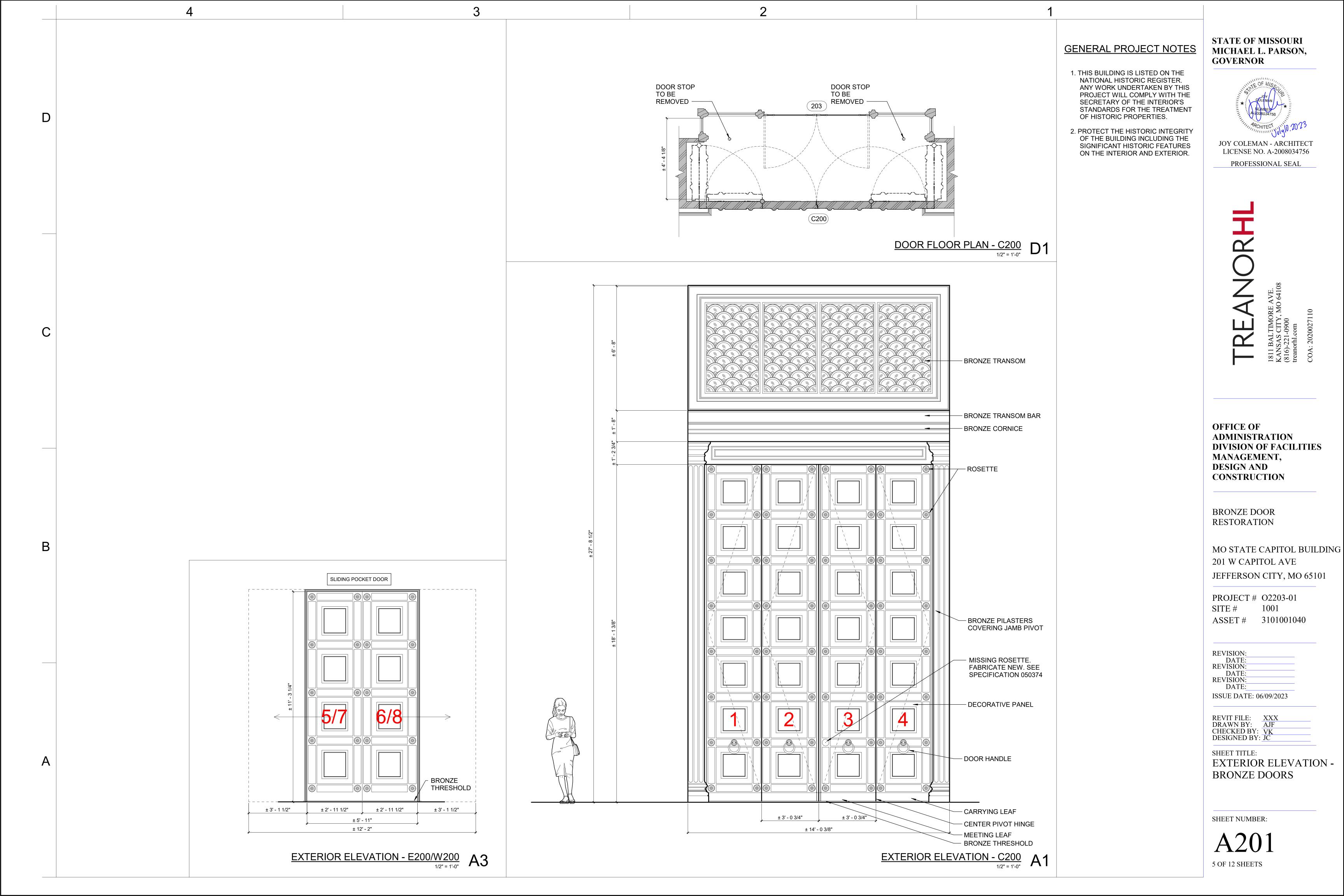
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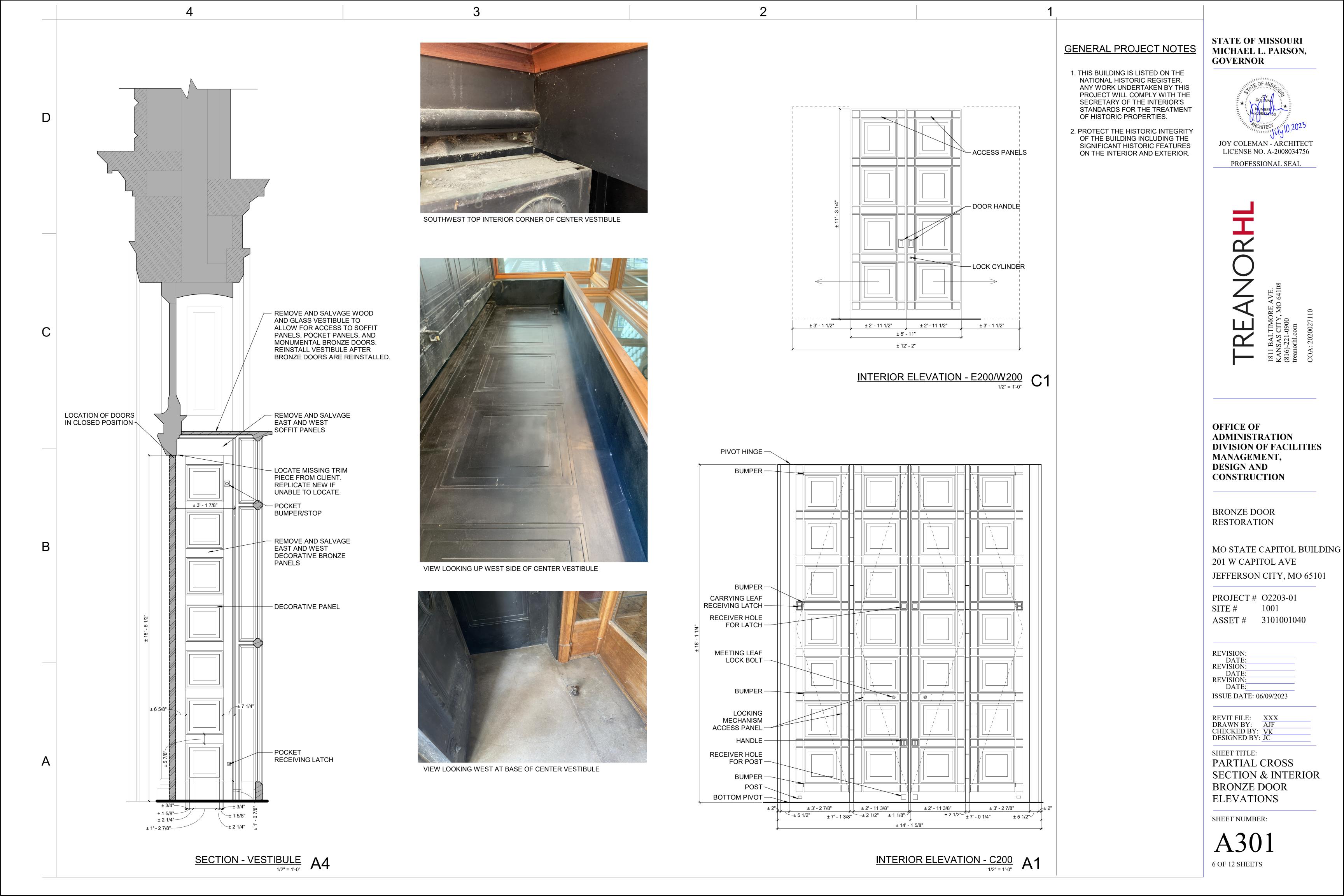
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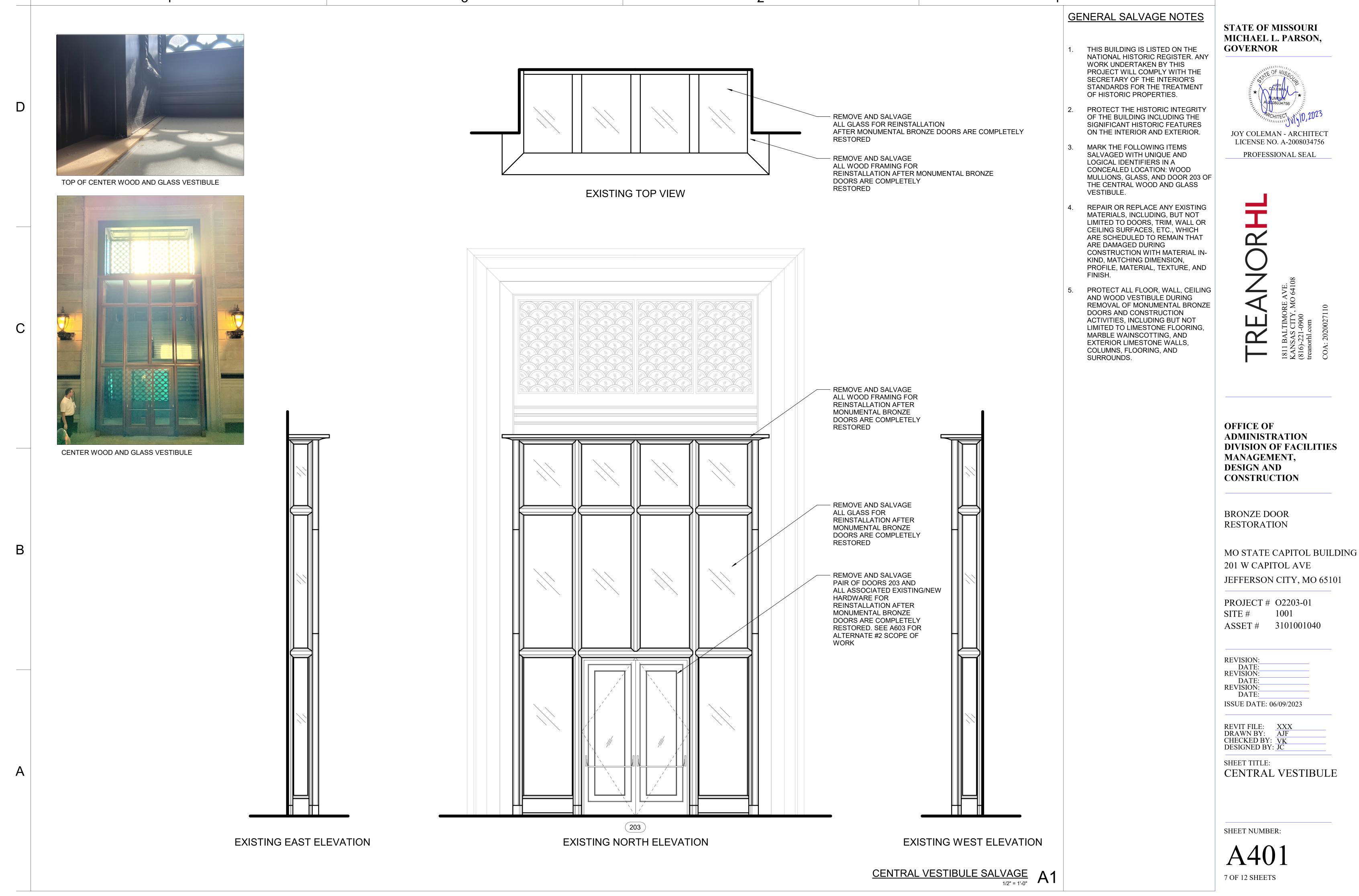
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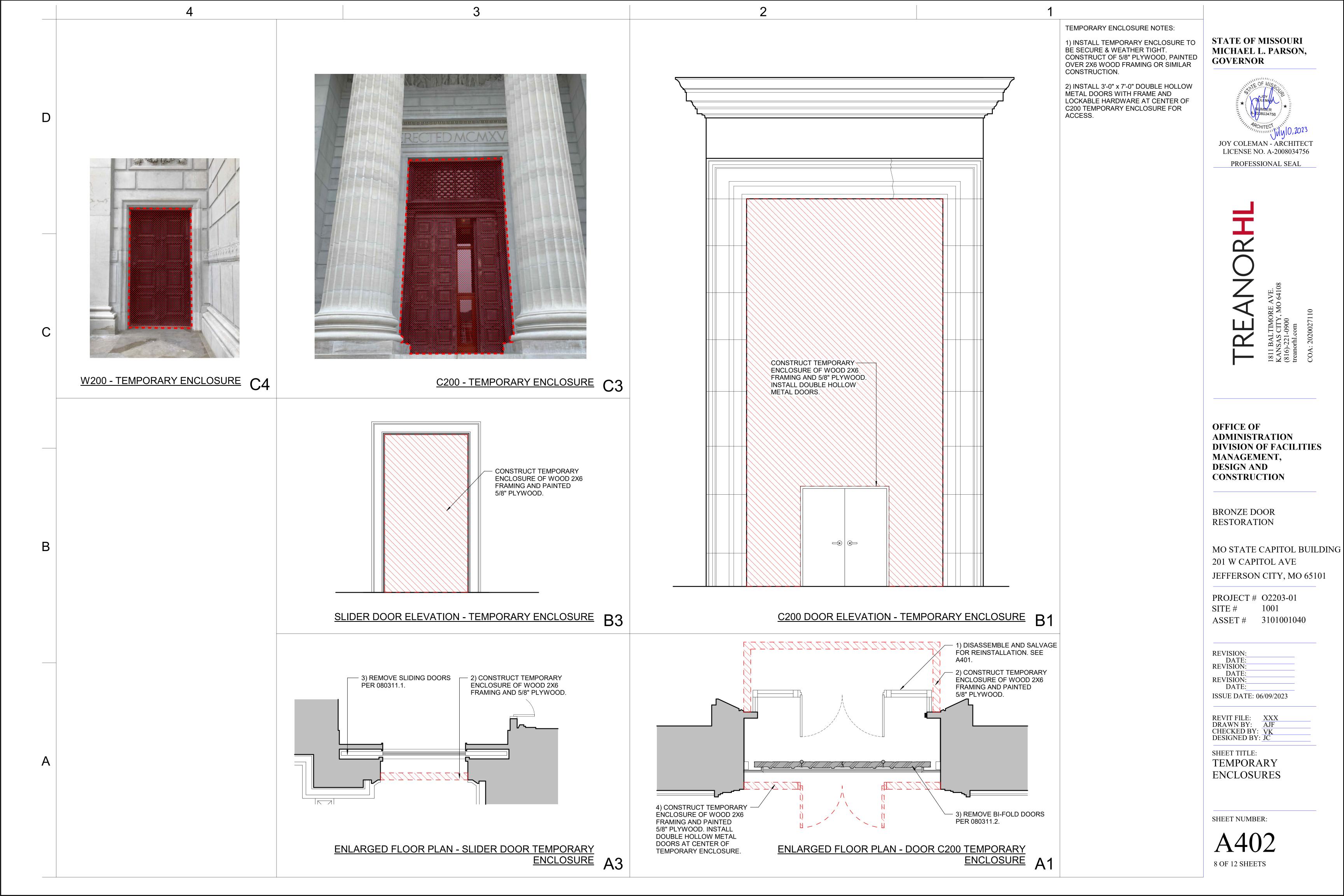
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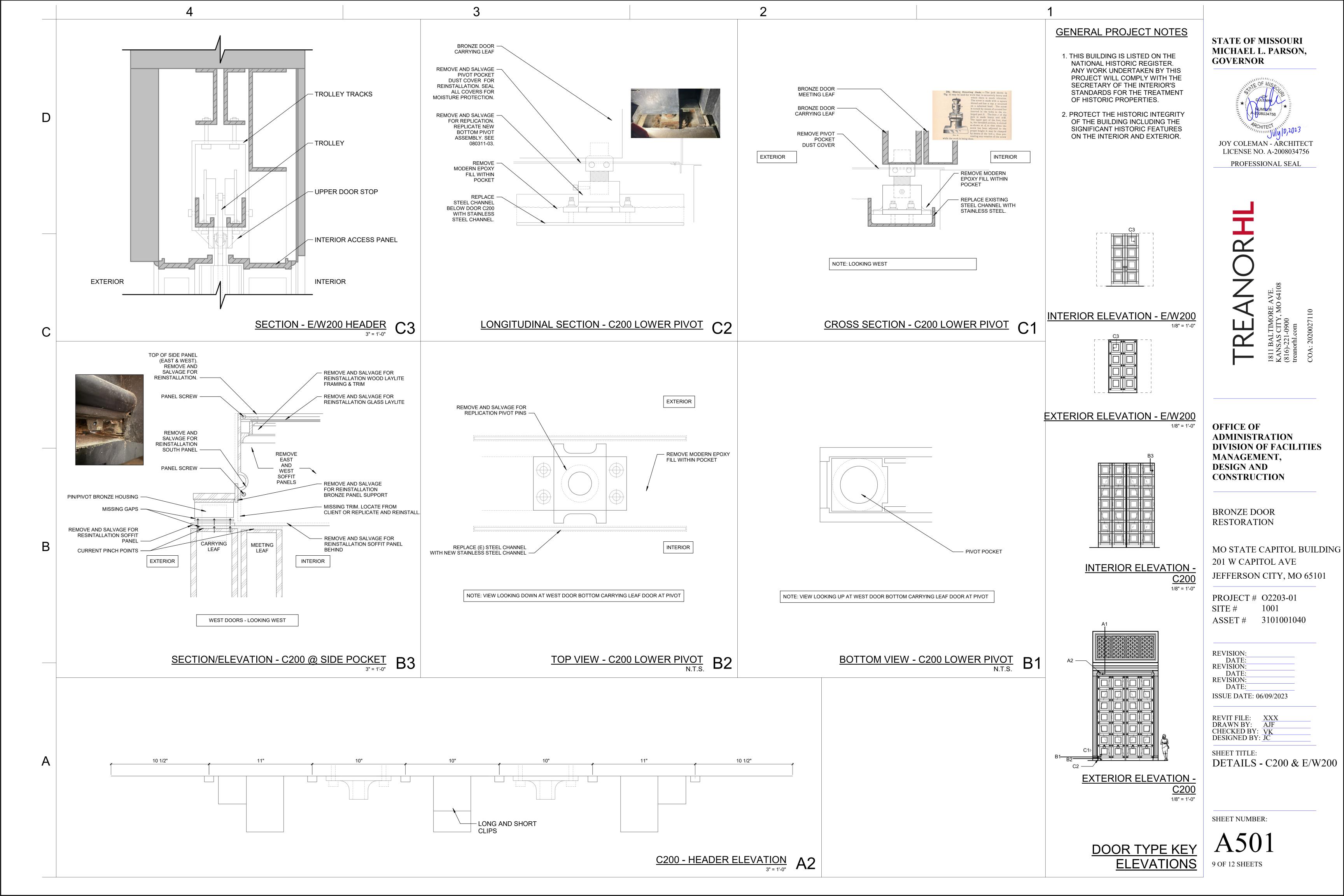












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	CENTER BI-FOLD DOOR HARDWARE									STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR			
D	C200	C200-1A C200-2A C200-3A C200-4A	Type  Locking Assembly (Type A)	Image	REFER	Comments  VE AND SALVAGE LOCKING ASSEMBLY FOR RENCE TO USE IN RECONSTRUCTING NEW NG ASSEMBLIES. SEE 08 03 11.03	C200	C200-1.1G Po- C200-1.2G G) C200-4.1G C200-4.2G	Type	Image	FUN NEC REFI	TRACTOR TO ASSESS MECHANICAL CTIONALITY OF BUMPER AND DETERMINE IF ESSARY TO REMOVE AND SALVAGE FOR ERENCE TO USE IN RECONSTRUCTING NEW KET BUMPER/STOP. SEE 08 03 11.03	JOY COLEMAN - ARCHITECT
							C200	C200-1H Ca C200-4H Lat	rrying Leaf Receiving ch (Type H)		REF	OVE AND SALVAGE RECEIVING LATCH FOR ERENCE TO USE IN RECONSTRUCTING NEW RYING LEAF RECEIVING LATCHES. SEE 08 03	LICENSE NO. A-2008034756  PROFESSIONAL SEAL
	C200	C200-1B C200-4A	Post (Type B)		FUNCT NECES REFER	RACTOR TO ASSESS MECHANICAL FIONALITY OF POSTS AND DETERMINE IF SSARY TO REMOVE AND SALVAGE FOR RENCE TO USE IN RECONSTRUCTING NEW S. SEE 08 03 11.03	C200	C200-2I Re C200-3I (Ty	ceiving Hole For Latch pe I)		REC	OVE AND SALVAGE RECEIVING HOLE/LATCH EMBLY FOR REFERENCE TO USE IN DNSTRUCTING NEW RECEIVING HOLE/LATCH EMBLY WITHIN. SEE 08 03 11.03	<b>ANE.</b> AO 64108
С	C200	C200-1C C200-4C	Carrying Leaf Bumper (TYPE C)		B EXISTII	NG CARRYING LEAF BUMPER TO REMAIN	C200	C200-2J Ce C200-3J	nter Pivot Hinges (Type J)		SYS <sup>-</sup> REC	OVE AND SALVAGE EXISTING PIVOT PIN TEM FOR REFERENCE TO USE IN DNSTRUCTING NEW CENTER PIVOT HINGE EMBLIES. SEE 08 03 11.03	TREP 1811 BALTIMOR KANSAS CITY, N (816)-221-0900 treanorhl.com
	C200	C200-2D C200-3D	Meeting Leaf Lock Bolt (TYPE D)		FUNCT AND DI SALVA	RACTOR TO ASSESS MECHANICAL TIONALITY OF MEETING LEAF LOCK BOLT ETERMINE IF NECESSARY TO REMOVE AND GE FOR REFERENCE TO USE IN NSTRUCTING NEW LOCK BOLTS. SEE 08 03	C200	C200-1K Lov C200-4K Ass	wer Corner Pivot semblies (TYPE K)		SYS <sup>-</sup> REC	OVE AND SALVAGE EXISTING PIVOT PIN TEM FOR REFERENCE TO USE IN DNSTRUCTING NEW LOWER CORNER PIVOT EMBLIES. SEE 08 03 11.03	OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION  BRONZE DOOR RESTORATION
В	C200		RECEIVER HOLE/LATCH FOR POST (TYPE E)		FUNCT ASSEM REMOV IN REC	RACTOR TO ASSESS MECHANICAL TIONALITY OF RECIEVER HOLE/LATCH MBLY AND DETERMINE IF NECESSARY TO ME AND SALVAGE FOR REFERENCE TO USE TONSTRUCTING NEW RECEIVER HOLE/LATCH MBLY WITHIN. SEE 08 03 11.03	C200		per Corner Pivot semblies (TYPE L)		FOR	OVE AND SALVAGE UPPER PIVOT PIN SYSTEM REFERENCE TO USE IN RECONSTRUCTING UPPER CORNER PIVOT ASSEMBLIES. SEE 08	MO STATE CAPITOL BUILD 201 W CAPITOL AVE JEFFERSON CITY, MO 65101  PROJECT # O2203-01 SITE # 1001 ASSET # 3101001040
	C200	C200-1F C200-2F C200-3F C200-4F	Locking Mechanism Access Panel (TYPE F)			EXISTING LOCKING MECHANISM ACCESS PANEL TO REMAIN		Bro	onze Theshold				REVISION: DATE: REVISION: DATE: REVISION: DATE: ISSUE DATE: ISSUE DATE: 06/09/2023  REVIT FILE: XXX DRAWN BY: AJF CHECKED BY: VK DESIGNED BY: JC  SHEET TITLE:
A												DOOR - LEAF - TYPE  X###-#X	SHEET MILE. HARDWARE SCHEDUL C200  SHEET NUMBER:  A601  10 OF 12 SHEETS

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