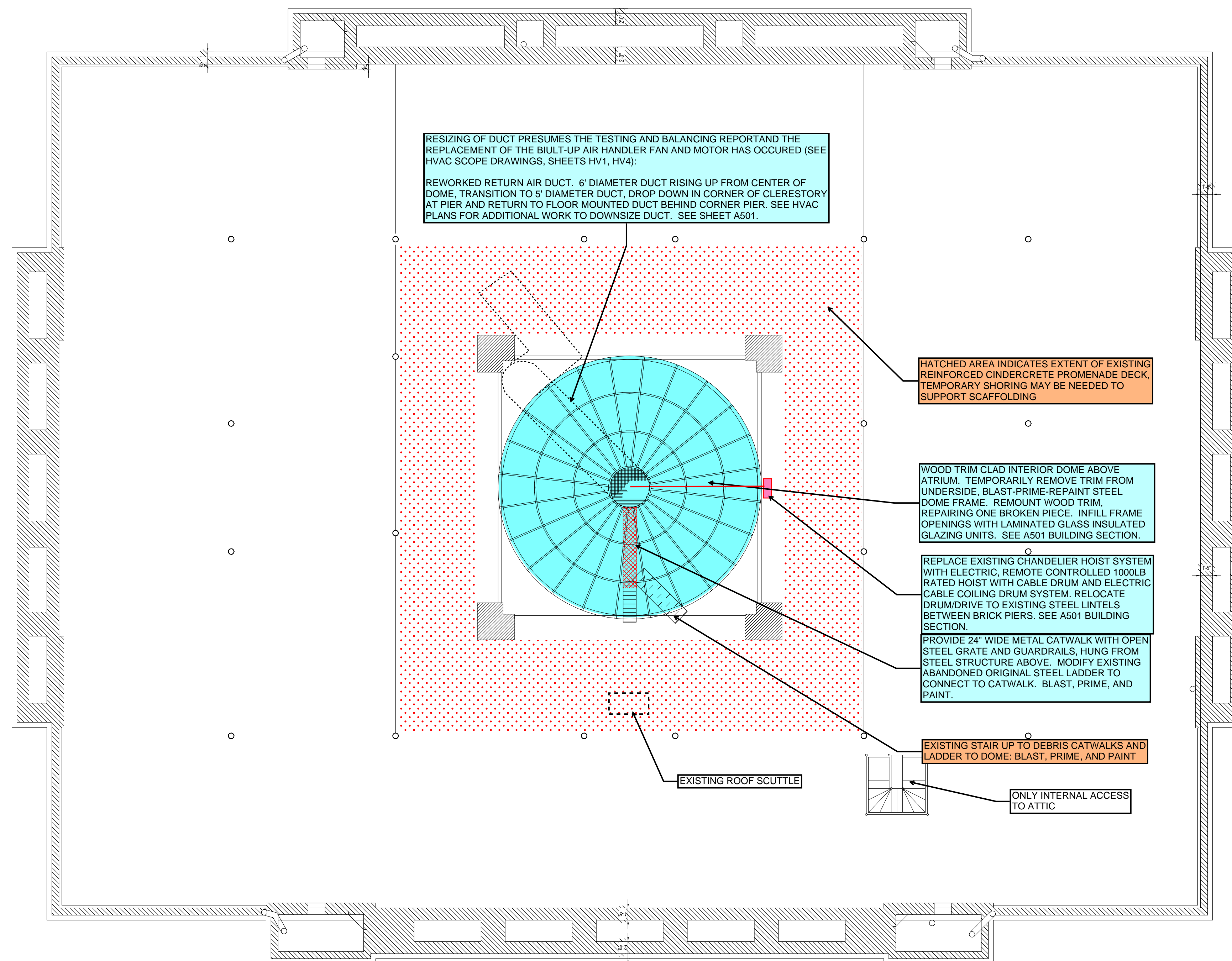


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ATTIC VIEW OF REINFORCED CINDERCONCRETE PROMENADE DECK



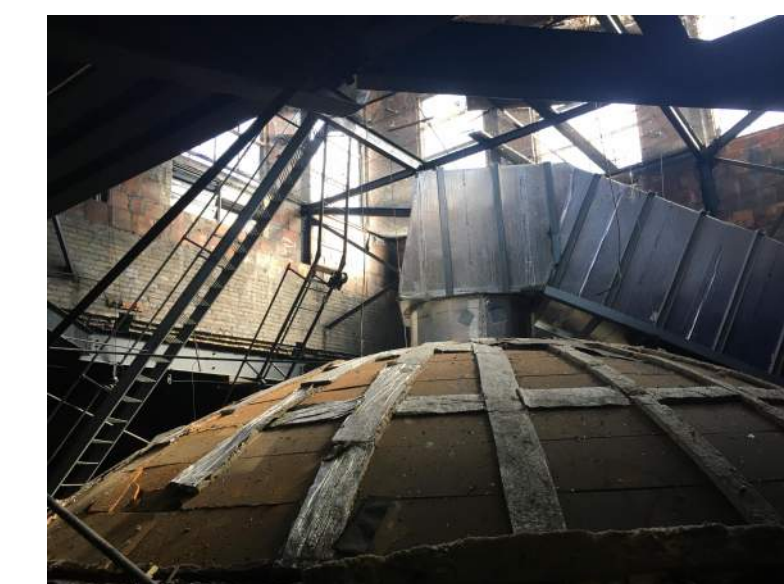
SCUTTLE IN REINFORCED CINDERCONCRETE PROMENADE DECK



VIEW OF ATTIC AROUND ATRIUM DOME (TO LEFT)



VIEW OF ATTIC AROUND ATRIUM DOME, NOTE STAIR TO DOME AND ABANDONED LADDER IN BACKGROUND



INTERIOR ATRIUM DOME (INSULATED) AND CURRENT RETURN AIR DUCT BELOW BASE OF CLERESTORY. EXISTING STAIR TO DOME (FOREGROUND) AND ABANDONED ORIGINAL LADDER (BACKGROUND).

COLOR CODED SCOPE KEY

- TOWER RESTORATION SCOPE NOTES
 - ATRIUM INTERIOR DOME SCOPE NOTES
 - WINDOW SCOPE NOTES
 - PROVIDE ALUMINUM FRAMED OPERABLE DOUBLE HUNG WINDOW
 - PROVIDE ALUMINUM FRAMED SIMULATED DOUBLE HUNG WINDOW
 - PROVIDE DUCTWORK
 - PROVIDE COPPER CLADDING AND ORNAMENTATION
 - PROVIDE COPPER CLAD, FIXED, SINGLE GLAZED WINDOWS
 - PROVIDE INSULATED HOLLOW METAL FIRE ESCAPE DOOR & DOOR FRAME
 - MECHANICAL LOUVER
- REOPEN EXISTING MASONRY INFILLED OPENING, PROVIDE WINDOWS AS INDICATED. AT INTERIOR REPAIR PLASTER WALL AND PAINT. PROVIDE STAINED OAK TRIM TO MATCH ORIGINAL AT ADJACENT WINDOWS.
 - PROVIDE INSULATED TRANSOM PANEL IN WINDOW AS INDICATED
- NOTES:**
1. AT ALL GLAZED WINDOWS WITH DROPPED ACOUSTICAL TILE CEILINGS, PROVIDE A FINISHED GWB FRAMED LIGHT WELL 1' WIDER THAN WINDOWS, TO 4' OFF WALL, AND 2' TALL.
 2. PROVIDE ROLLER SHADES AT ALL GLAZED WINDOWS

KEYPLAN

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REVISIONS
NO. DESCRIPTION
DATE

COUNTY DOME AND FACILITY IMPROVEMENTS STUDY

1010 S. 8TH STREET
MANTOWOC, WI 54220

DATE: 05/01/2022
DRAWING SET: ARCHITECTURAL SCOPING
PROJECT NO.: 2022011

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ATTIC PLAN

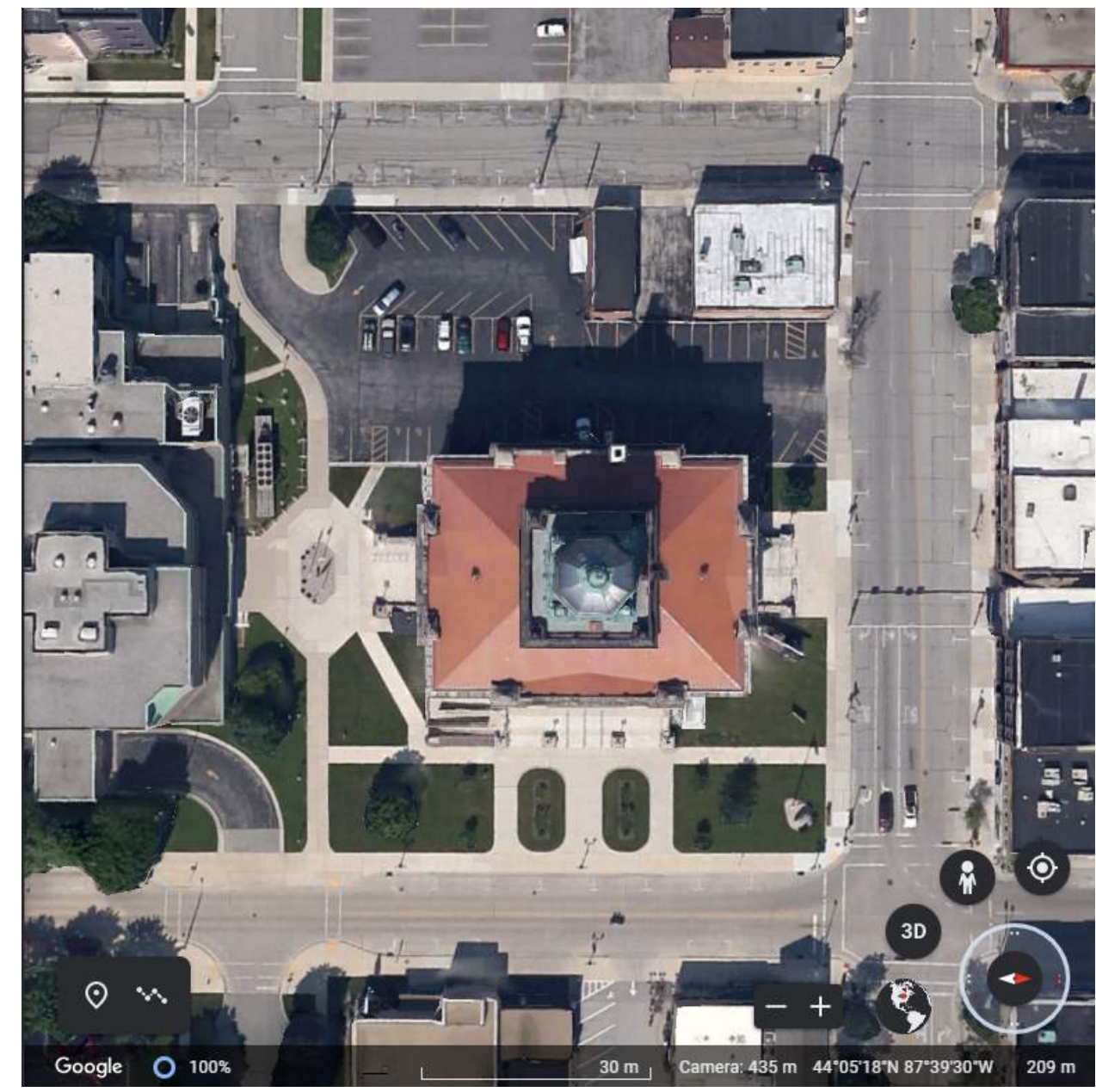
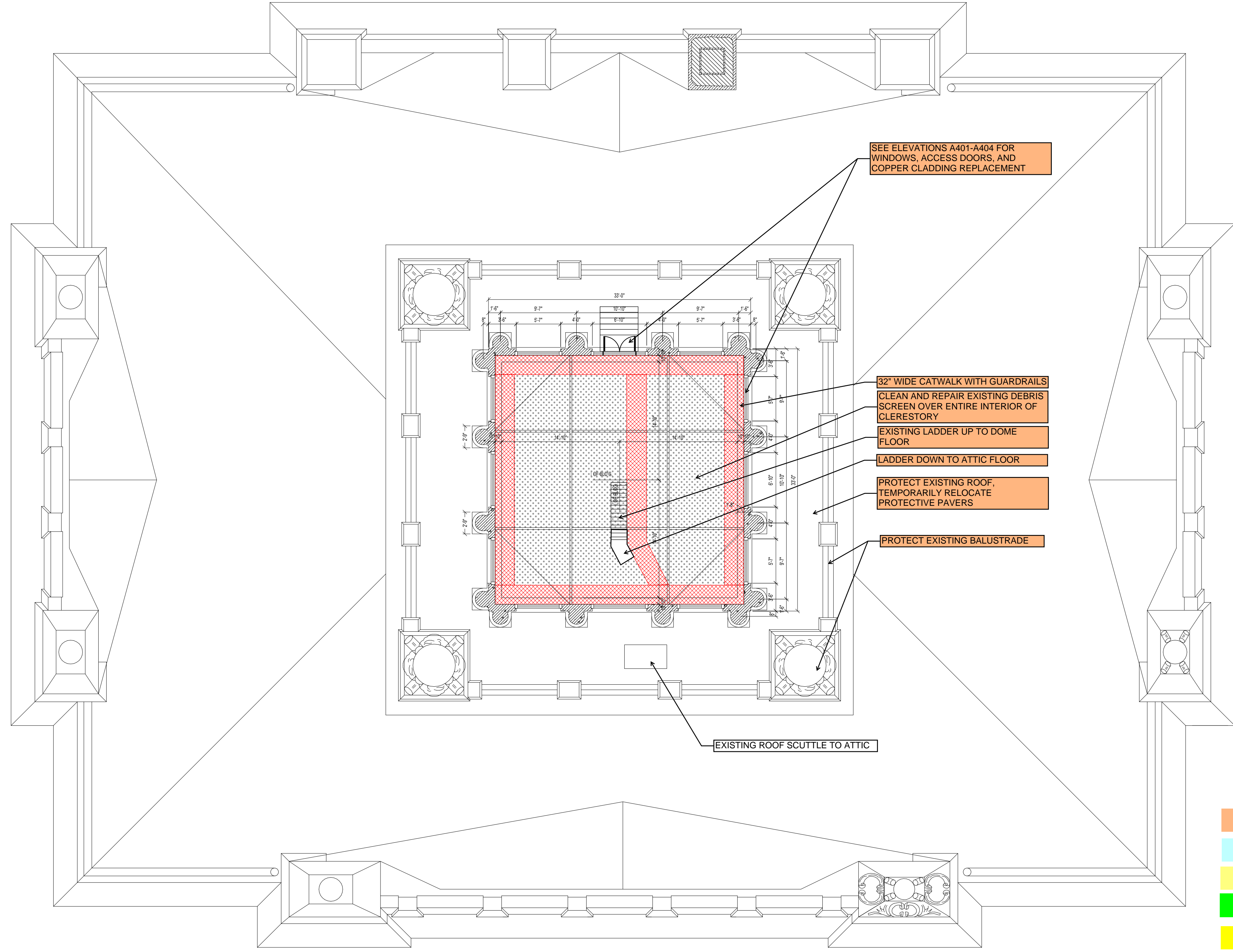


1
A204

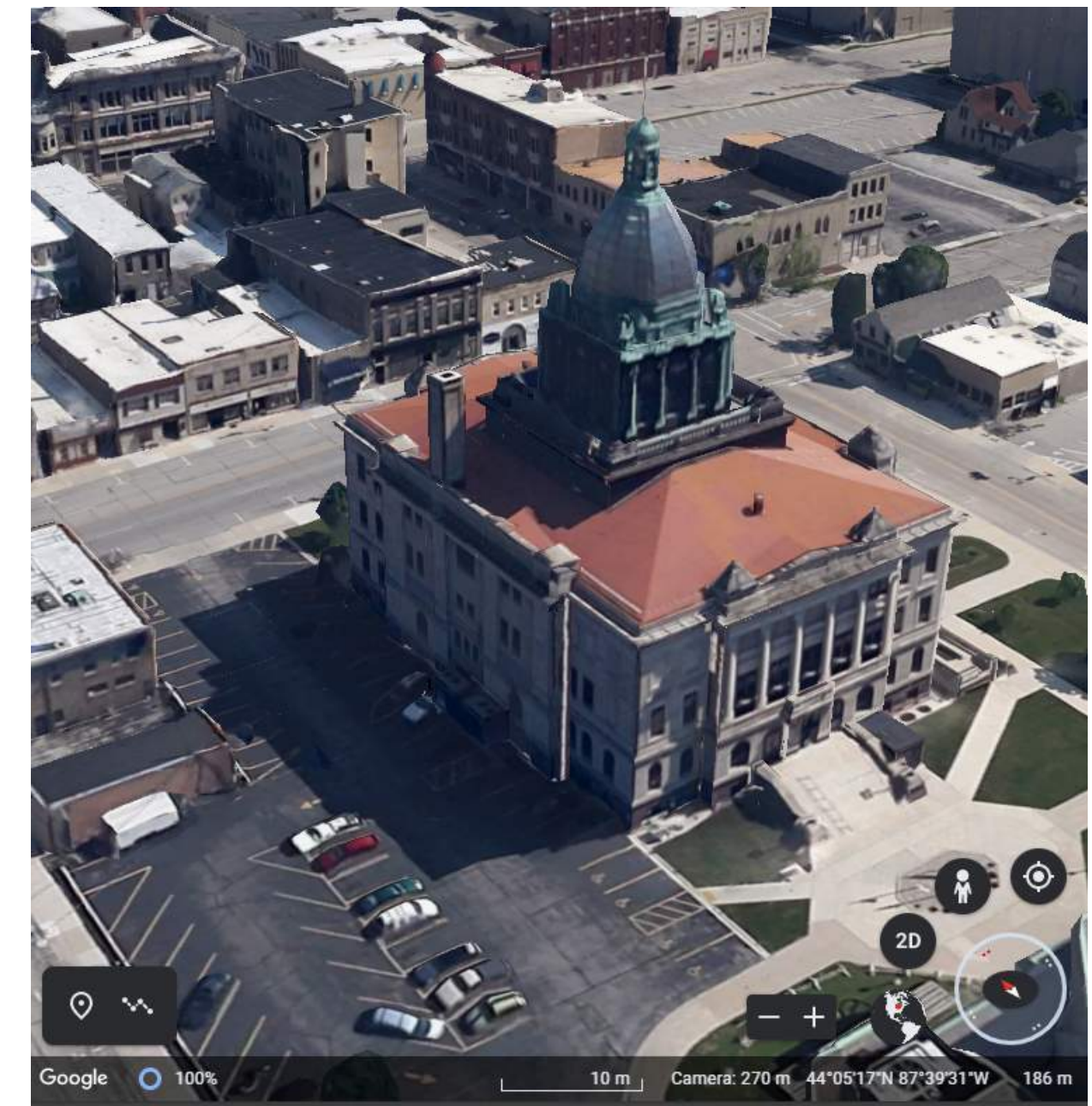
ATTIC PLAN
SCALE: 1/8" = 1'-0"

A204

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GOOGLE EARTH AERIAL PHOTO OF SITE, NORTH IS TO THE RIGHT.



SIMULATED AERIAL VIEW (GOOGLE EARTH) FROM SOUTHWEST LOOKING NORTHEAST

COLOR CODED SCOPE KEY

- | | | | |
|--|--------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | TOWER RESTORATION SCOPE NOTES | | REOPEN EXISTING MASONRY INFILLED OPENING, PROVIDE WINDOWS AS INDICATED. AT INTERIOR REPAIR PLASTER WALL AND PAINT. PROVIDE STAINED OAK TRIM TO MATCH ORIGINAL AT ADJACENT WINDOWS. |
| | ATRIUM INTERIOR DOME SCOPE NOTES | | PROVIDE INSULATED TRANSOM PANEL IN WINDOW AS INDICATED |
| | WINDOW SCOPE NOTES | | |
| | PROVIDE ALUMINUM FRAMED OPERABLE DOUBLE HUNG WINDOW | | NOTES:
1. AT ALL GLAZED WINDOWS WITH DROPPED ACOUSTICAL TILE CEILINGS, PROVIDE A FINISHED GWB FRAMED LIGHT WELL 1' WIDER THAN WINDOWS, TO 4' OFF WALL, AND 2' TALL.
2. PROVIDE ROLLER SHADES AT ALL GLAZED WINDOWS |
| | PROVIDE ALUMINUM FRAMED SIMULATED DOUBLE HUNG WINDOW | | |
| | PROVIDE DUCTWORK | | |
| | PROVIDE COPPER CLADDING AND ORNAMENTATION | | |
| | PROVIDE COPPER CLAD, FIXED, SINGLE GLAZED WINDOWS | | |
| | PROVIDE INSULATED HOLLOW METAL FIRE ESCAPE DOOR & DOOR FRAME | | |
| | MECHANICAL LOUVER | | |

1 NORTH A205 SCALE: 1/8" = 1'-0"

KEYPLAN

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COUNTY DOME AND FACILITY IMPROVEMENTS STUDY

1010 S. 8TH STREET
MANTOWOC, WI 54220

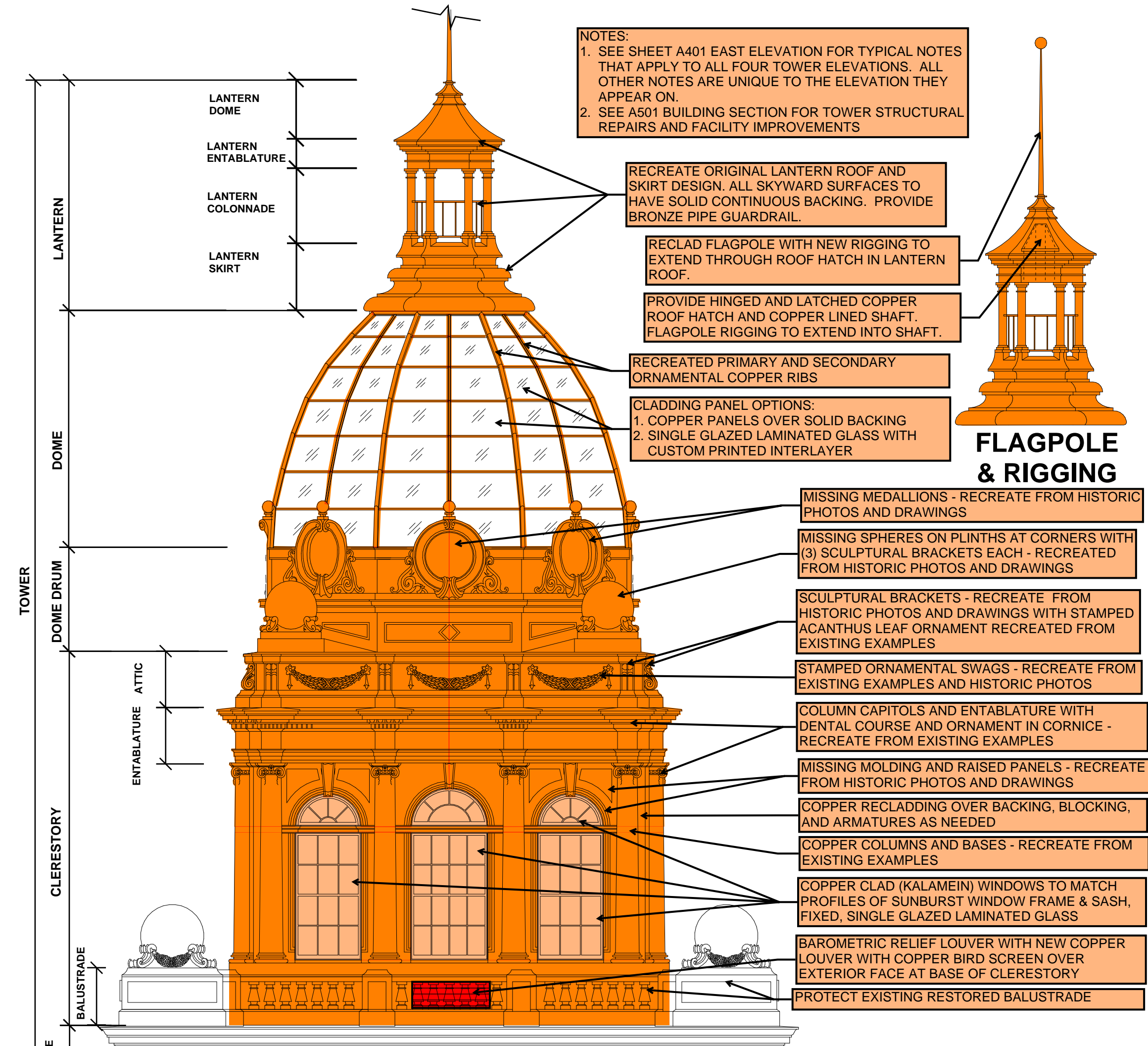
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ROOF & TOWER PLAN



CURRENT CONDITION AS PARTIALLY RECLAD IN 1950s



SIMPLIFIED LANTERN AND SKIRT. DOME IS FRAMED OVER ORIGINAL ROOF FRAMEWORK.



ORIGINAL DESIGN AS BUILT 1908



COLOR CODED SCOPE KEY

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KEYPLAN

NO.	DESCRIPTION	DATE

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NO.	DESCRIPTION	DATE

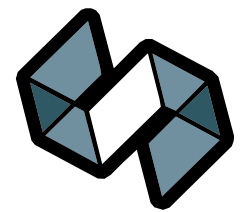
COUNTY DOME AND FACILITY IMPROVEMENTS STUDY

1010 S. 8TH STREET
 MANITOWOC, WI 54220

DATE: 05/01/2022
 DRAWING SET: ARCHITECTURAL SCOPING
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EXTERIOR ELEVATION - EAST



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CURRENT CLADDING (ORIGINAL AND ALTERATIONS)



ORIGINAL ENTABLATURE, SIMPLIFIED REPLACEMENT BRACKETS AND CORNER ORNAMENT



NOTE ORIGINAL STAMPED SWAG ORNAMENT ABOVE ENTABLATURE AND ON REPLACEMENT BRACKETS

NOTES:
1. SEE SHEET A401 EAST ELEVATION FOR TYPICAL NOTES THAT APPLY TO ALL FOUR TOWER ELEVATIONS. ALL OTHER NOTES ARE UNIQUE TO THE ELEVATION THEY APPEAR ON.
2. SEE A501 BUILDING SECTION FOR TOWER STRUCTURAL REPAIRS AND FACILITY IMPROVEMENTS



CLERESTORY WINDOWS WITH MODIFIED ARCH ORNAMENT



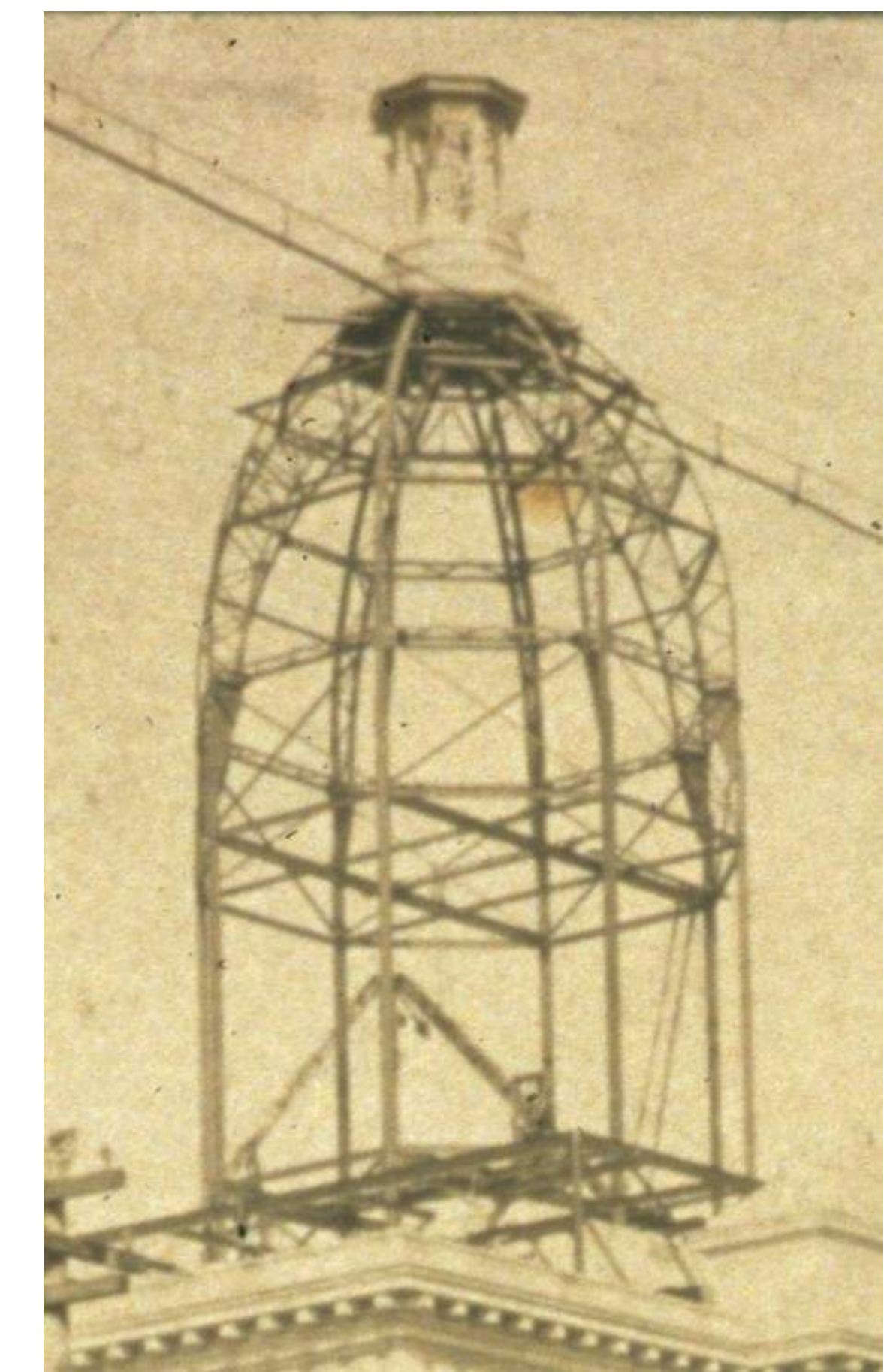
ORIGINAL WOOD SUNBURST WINDOW FRAME AND SASH, SIMPLIFIED WINDOW SURROUND ORNAMENT



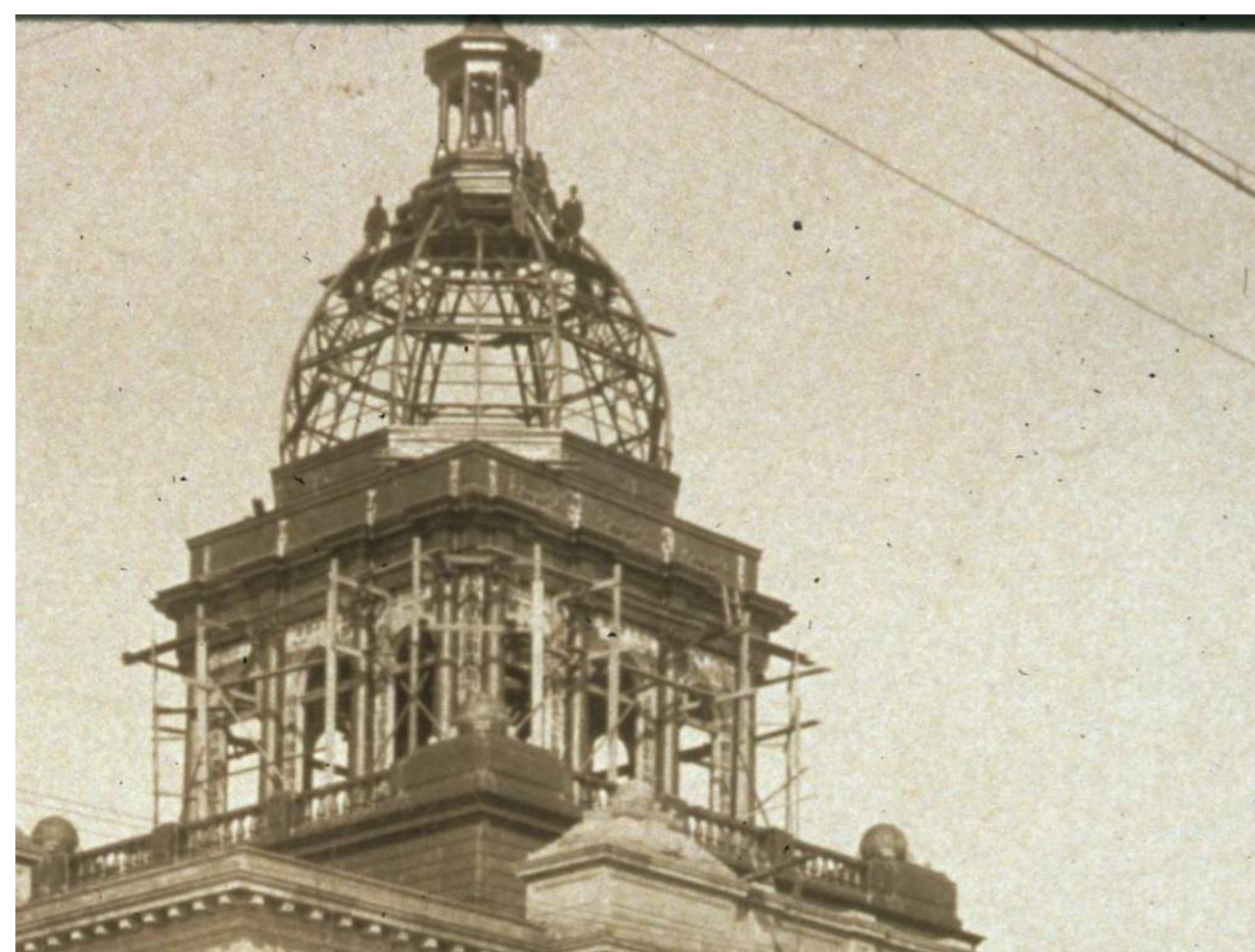
SIMPLIFIED COLUMN BASE REPLACEMENTS AND PLINTH CAPS. NOTE ARCHITECTURAL UPLIGHTS



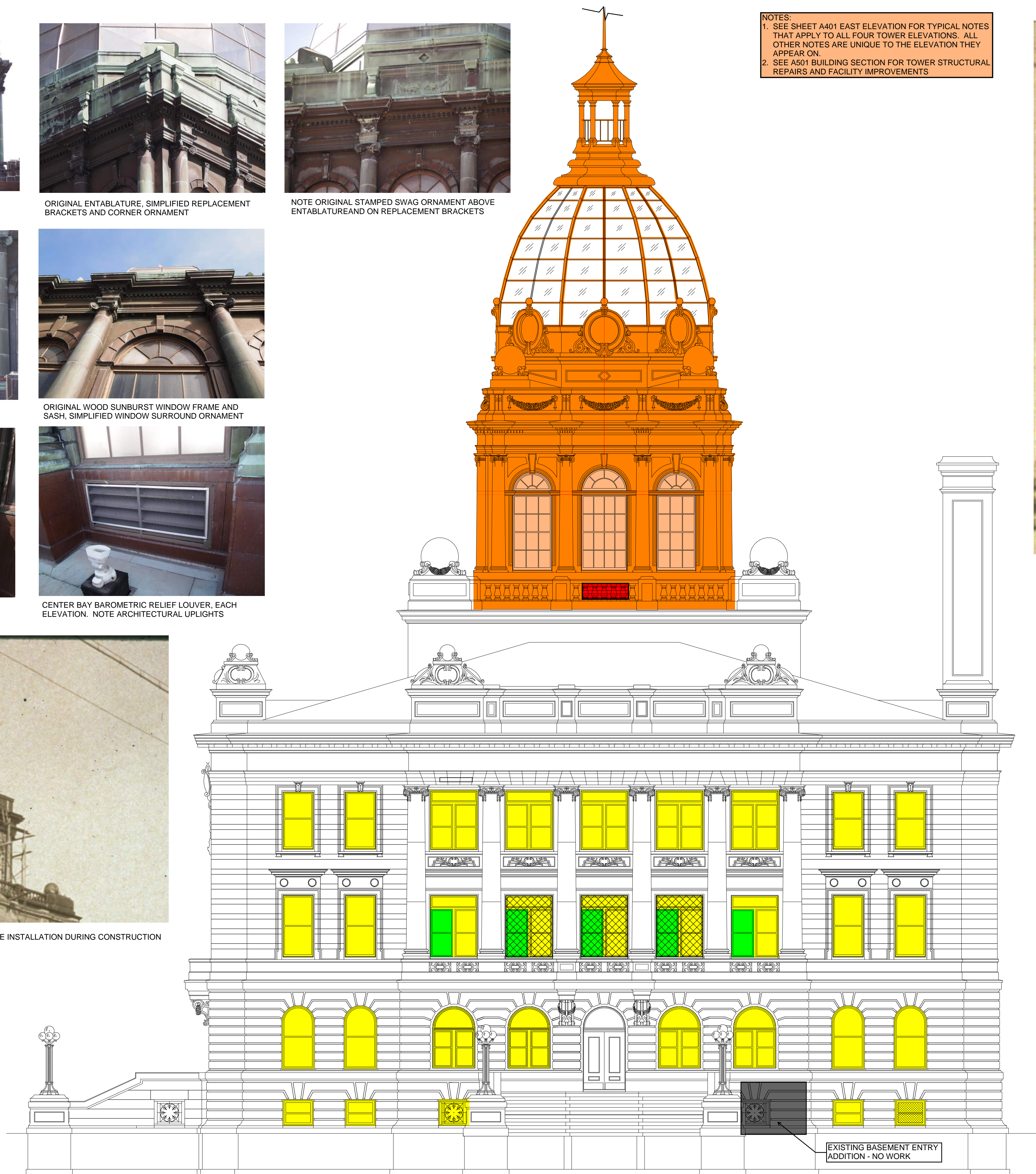
CENTER BAY BAROMETRIC RELIEF LOUVER, EACH ELEVATION. NOTE ARCHITECTURAL UPLIGHTS



TOWER FRAMING DURING CONSTRUCTION



START OF COPPER CLADDING AND GLAZING ARMATURE INSTALLATION DURING CONSTRUCTION



NORTH ELEVATION - EXISTING CONDITIONS

SCALE: 1/8" = 1'-0"

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KEYPLAN

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NO.	DESCRIPTION	DATE

COUNTY DOME AND FACILITY IMPROVEMENTS STUDY

1010 S. 8TH STREET
MANTOWOC, WI 54220

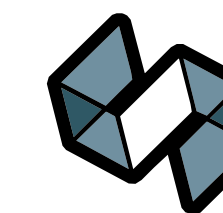
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PROJECT NO.: 2022011

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EXTERIOR ELEVATION - NORTH

A402

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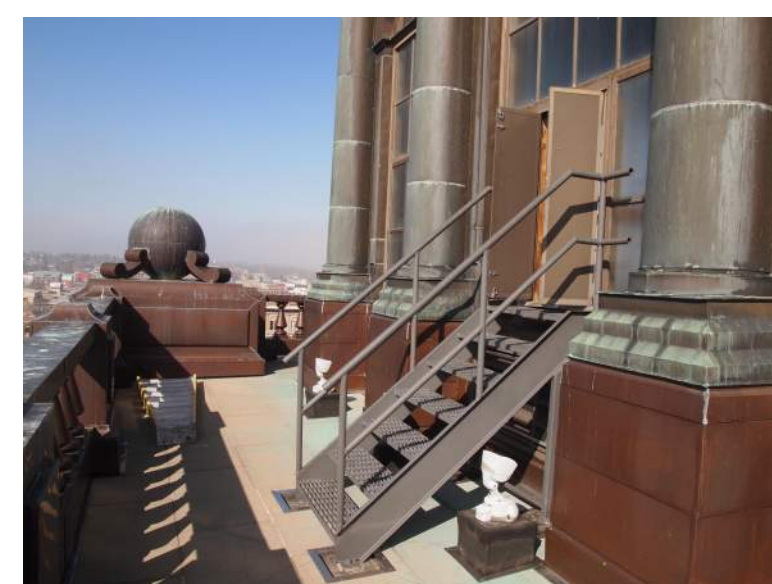
MADISON, WI | WAUKESHA, WI



ALUMINUM ACCESS PANELS FROM CLERESTORY DEBRIS SCREEN LEVEL TO EXTERIOR PROMENADE DECK. WINDOWS ARE REPLACEMENTS

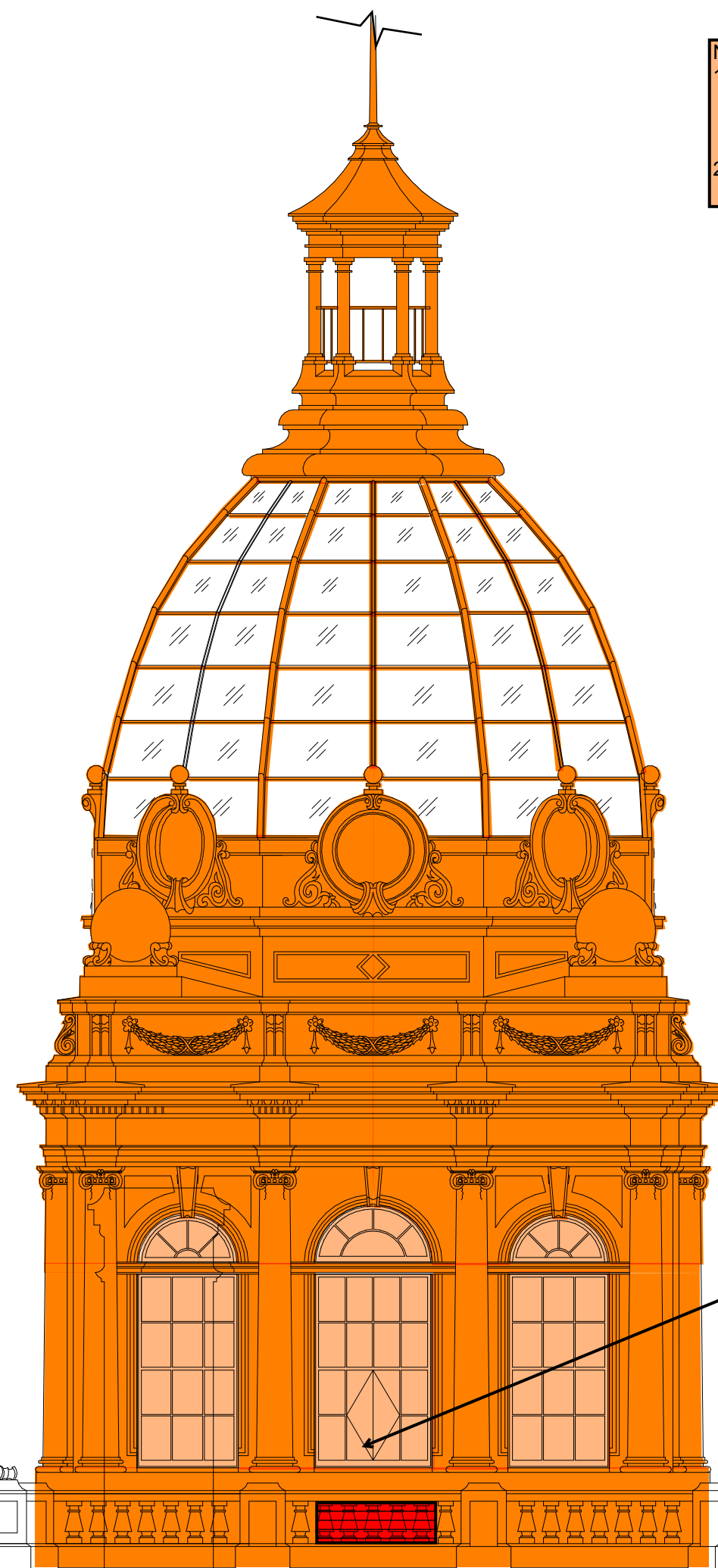


ALUMINUM ACCESS PANELS FROM CLERESTORY DEBRIS SCREEN LEVEL TO EXTERIOR PROMENADE DECK. WINDOWS ARE REPLACEMENTS



ALUMINUM ACCESS PANELS FROM CLERESTORY DEBRIS SCREEN LEVEL TO EXTERIOR PROMENADE DECK. WINDOWS ARE REPLACEMENTS

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COPPER CLAD ACCESS DOORS TO PROMENADE



WEST ELEVATION

1
A403
SCALE: 1/8" = 1'-0"

COLOR CODED SCOPE KEY

- TOWER RESTORATION SCOPE NOTES
- ATRIUM INTERIOR DOME SCOPE NOTES
- WINDOW SCOPE NOTES
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KEYPLAN

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DATE

REVISIONS
NO. DESCRIPTION

COUNTY DOME AND FACILITY IMPROVEMENTS STUDY

1010 S. 8TH STREET
MANTOWOC, WI 54220

DATE: 05/01/2022
DRAWING SET ARCHITECTURAL SCOPING PROJECT NO. 2022011

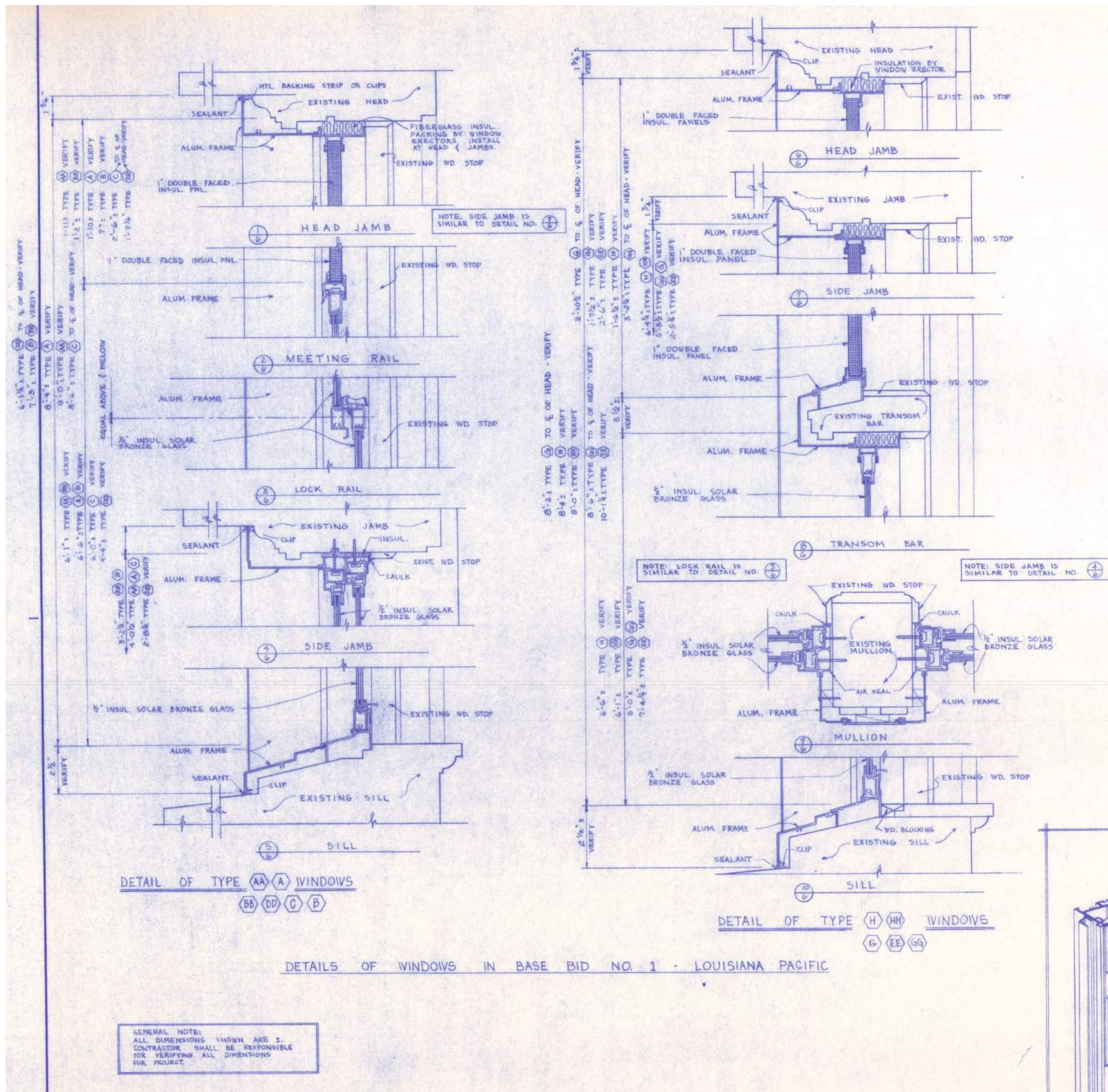
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EXTERIOR ELEVATION - WEST

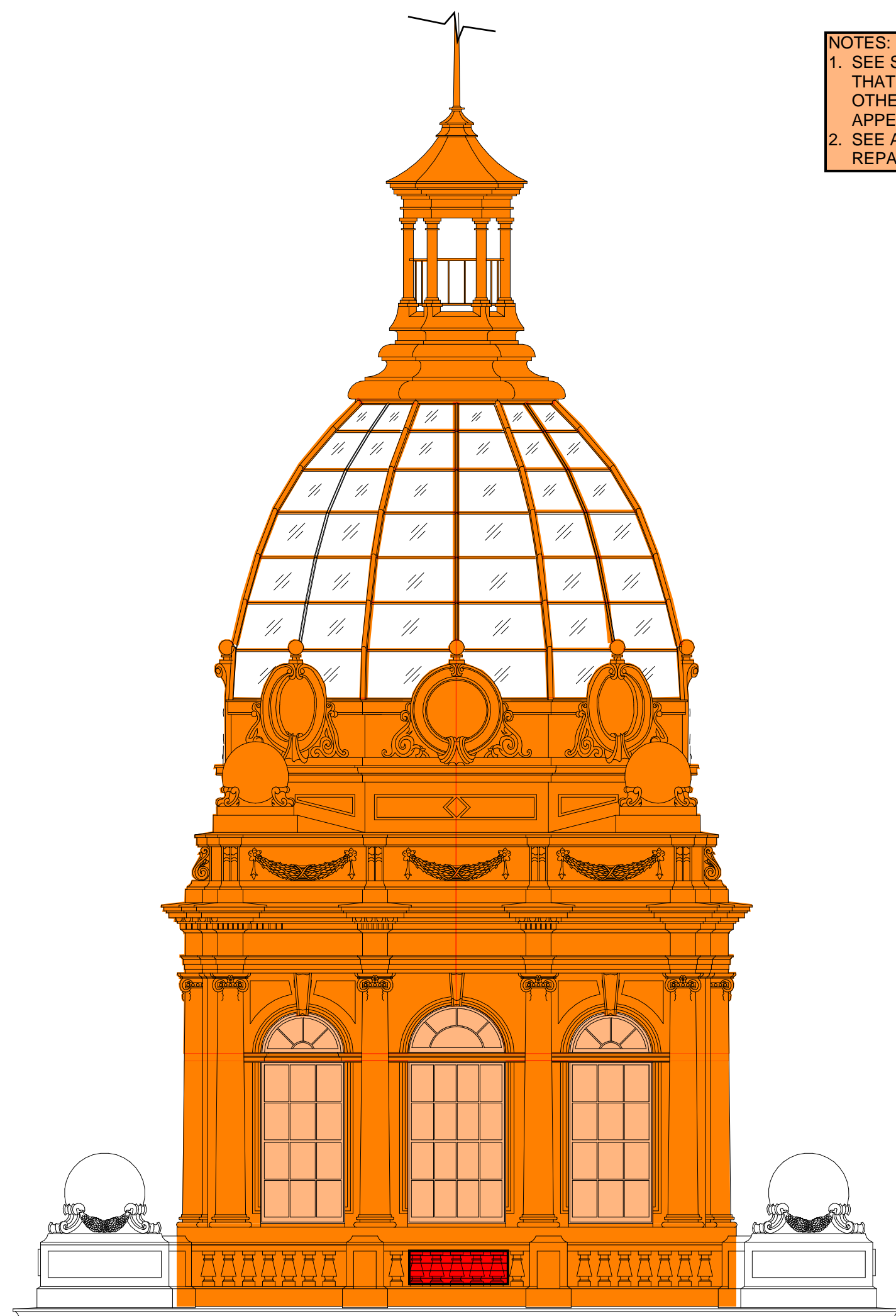
A403

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NOTES:
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TYPICAL WINDOW REPLACEMENT DETAILS FROM THE 1978 WINDOW REPLACEMENT PROJECT. INTENT IS TO PROVIDE A DARK BRONZE ANODIZED ALUMINUM WINDOW WITH THERMALLY BROKEN FRAME WITH INSULATING GLASS. WINDOW TO BE INSTALLED OVER EXISTING ORIGINAL WOOD WINDOW FRAMES AS WAS DONE IN 1978.



COLOR CODED SCOPE KEY

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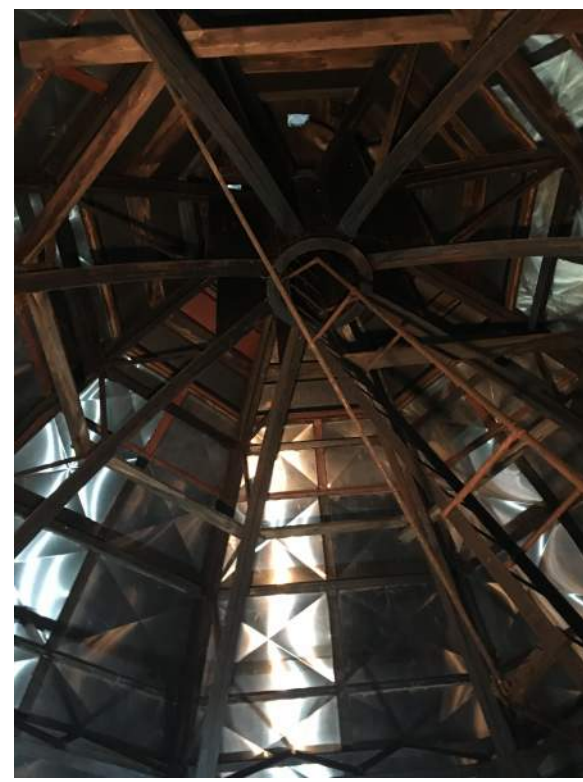
COUNTY DOME AND FACILITY IMPROVEMENTS STUDY

1010 S. 8TH STREET
 WANTWISSE, WI 54220

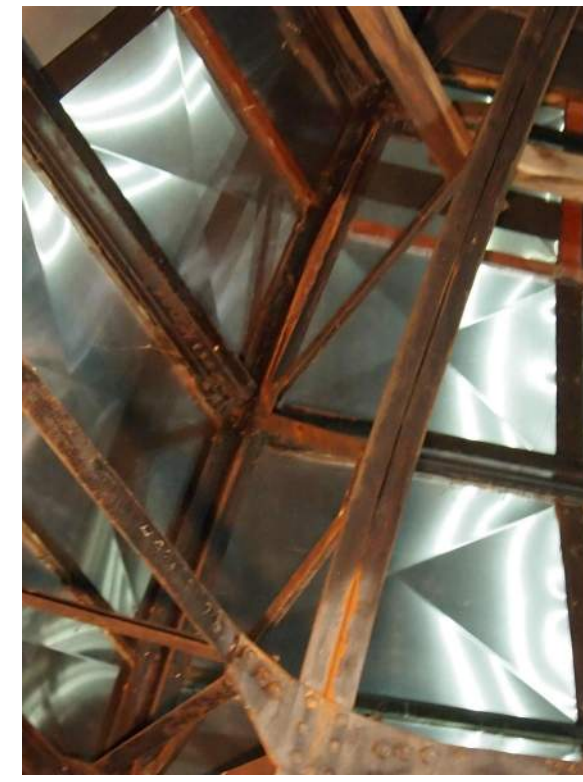
DATE: 05/01/2022
 DRAWING SET ARCHITECTURAL SCOPING PROJECT NO. 2022011

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EXTERIOR ELEVATION - SOUTH



TRUSSES MEETING AT COMPRESSION RING



RUST JACKING OF 1 OF 2 TRUSSES, ADDITIONAL SURFACE CORROSION BELOW



DOMES BASE, FLOOR AND HATCH.



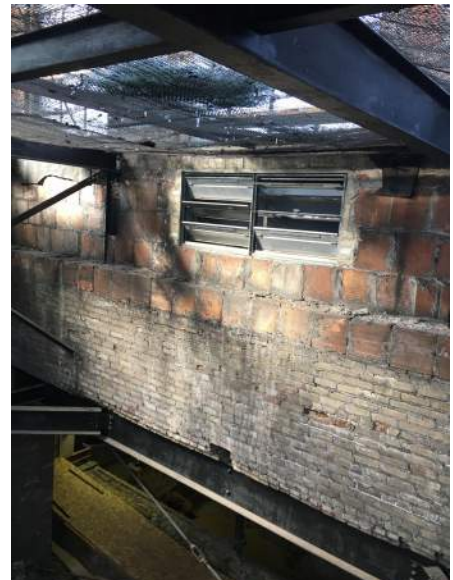
CLERESTORY SHOWING STRUCTURAL COLUMNS, STRUCTURAL CLAY TILE INFILL, AND WINDOWS



EXTENSIVE STRUCTURAL CLAY TILE WATER DAMAGE AND CORROSION OF TOP OF COLUMN/CONNECTION TO DOME TRUSS



WEST ELEVATION PROMENADE ACCESS DOORS AND CATWALK OVER DEBRIS SCREEN



BAROMETRIC RELIEF LOUVER AT BASE OF CLERESTORY & BELOW LOWER CROSS BRACING



INTERIOR ATRIUM DOME (INSULATED) AND CURRENT RETURN AIR DUCT BELOW BASE OF CLERESTORY



CHANDELIER SUPPORT CABLE THRU RETURN AIR DUCT



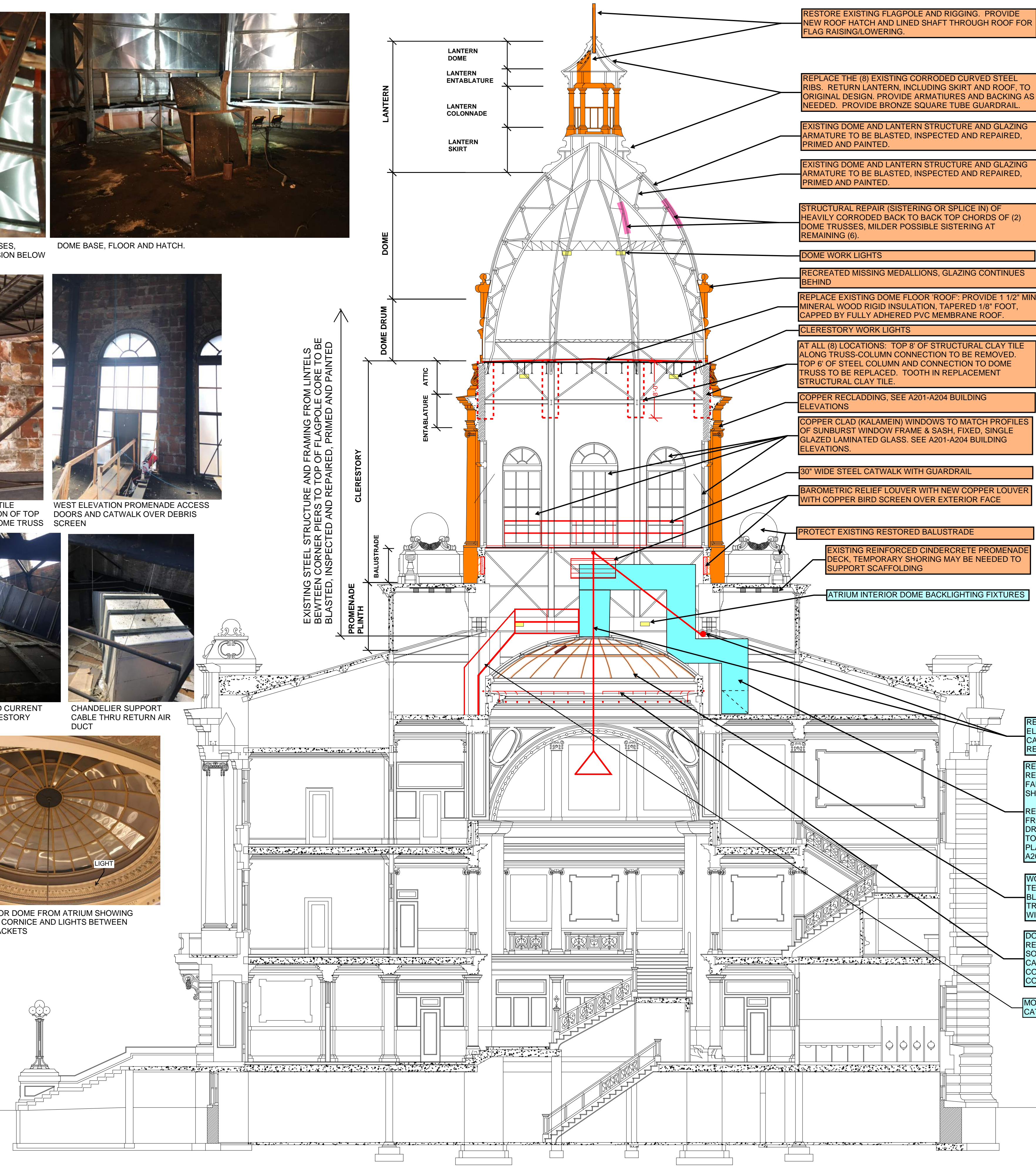
VIEW OF ATRIUM THRU REMOVED PANEL IN ATRIUM INTERIOR DOME



ATRIUM INTERIOR DOME FROM ATRIUM SHOWING UNDERSIDE OF CORNICE AND LIGHTS BETWEEN MODILLION BRACKETS



ATTIC VIEW OF REINFORCED CINDERCRETE PROMENADE DECK



EXISTING STEEL STRUCTURE AND FRAMING FROM LINTELS BETWEEN CORNER PIERS TO TOP OF FLAGPOLE CORE TO BE BLASTED, INSPECTED AND REPAIRED, PRIMED AND PAINTED

RESTORE EXISTING FLAGPOLE AND RIGGING. PROVIDE NEW ROOF HATCH AND LINED SHAFT THROUGH ROOF FOR FLAG RAISING/LOWERING.

REPLACE THE (8) EXISTING CORRODED CURVED STEEL RIBS. RETURN LANTERN, INCLUDING SKIRT AND ROOF, TO ORIGINAL DESIGN. PROVIDE ARMATURES AND BACKING AS NEEDED. PROVIDE BRONZE SQUARE TUBE GUARDRAIL.

EXISTING DOME AND LANTERN STRUCTURE AND GLAZING ARMATURE TO BE BLASTED, INSPECTED AND REPAIRED, PRIMED AND PAINTED.

EXISTING DOME AND LANTERN STRUCTURE AND GLAZING ARMATURE TO BE BLASTED, INSPECTED AND REPAIRED, PRIMED AND PAINTED.

STRUCTURAL REPAIR (SISTERING OR SPLICE IN) OF HEAVILY CORRODED BACK TO BACK TOP CHORDS OF (2) DOME TRUSSES, MILDER POSSIBLE SISTERING AT REMAINING (6).

DOMES WORK LIGHTS

RECREATED MISSING MEDALLIONS, GLAZING CONTINUES BEHIND

REPLACE EXISTING DOME FLOOR ROOF: PROVIDE 1 1/2" MIN MINERAL WOOD RIGID INSULATION, TAPERED 1/8" FOOT, CAPPED BY FULLY ADHERED PVC MEMBRANE ROOF.

CLERESTORY WORK LIGHTS

AT ALL (8) LOCATIONS: TOP 8" OF STRUCTURAL CLAY TILE ALONG TRUSS-COLUMN CONNECTION TO BE REMOVED. TOP 6" OF STEEL COLUMN AND CONNECTION TO DOME TRUSS TO BE REPLACED. TOOTH IN REPLACEMENT STRUCTURAL CLAY TILE.

COPPER RECLADDING, SEE A201-A204 BUILDING ELEVATIONS

COPPER CLAD (KALAMEIN) WINDOWS TO MATCH PROFILES OF SUNBURST WINDOW FRAME & SASH, FIXED, SINGLE GLAZED LAMINATED GLASS. SEE A201-A204 BUILDING ELEVATIONS.

30" WIDE STEEL CATWALK WITH GUARDRAIL

BAROMETRIC RELIEF LOUVER WITH NEW COPPER LOUVER WITH COPPER BIRD SCREEN OVER EXTERIOR FACE

PROTECT EXISTING RESTORED BALUSTRADE

EXISTING REINFORCED CINDERCRETE PROMENADE DECK. TEMPORARY SHORING MAY BE NEEDED TO SUPPORT SCAFFOLDING

ATRIUM INTERIOR DOME BACKLIGHTING FIXTURES

REPLACE EXISTING CHANDELIER HOIST SYSTEM WITH ELECTRIC. REMOTE CONTROLLED 1000LB RATED HOIST WITH CABLE DRUM AND ELECTRIC CABLE COILING DRUM SYSTEM. RELOCATE DRUM/DRIVE TO STEEL LINTELS.

RESIZING OF DUCT PRESUMES THE TESTING AND BALANCING REPORT AND THE REPLACEMENT OF THE BUILT-UP AIR HANDLER FAN AND MOTOR HAS OCCURED (SEE HVAC SCOPE DRAWINGS, SHEETS HV1, HV4).

REWORKED RETURN AIR DUCT. 6" DIAMETER DUCT RISING UP FROM CENTER OF DOME, TRANSITION TO 5" DIAMETER DUCT, DROP DOWN IN CORNER OF CLERESTORY AT PIER AND RETURN TO FLOOR MOUNTED DUCT BEHIND CORNER PIER. SEE HVAC PLANS FOR ADDITIONAL WORK TO DOWNSIZE DUCT. SEE SHEET A204.

WOOD TRIM CLAD INTERIOR DOME ABOVE ATRIUM. TEMPORARILY REMOVE TRIM FROM UNDERSIDE. BLAST-PRIME-REPAINT STEEL DOME FRAME. REMOUNT WOOD TRIM, REPAIRING ONE BROKEN PIECE. INFILL FRAME OPENINGS WITH LAMINATED GLASS INSULATED GLAZING UNITS.

DOMES DRUM UNDER CORNICE LIGHTING REPLACEMENT OPTION. REMOVE EXISTING ORIGINAL SURFACE MOUNTED FIXTURE SOCKETS AND REPLACE WITH FIBER OPTIC THRU CORNICE CABLE WITH END FIXTURES SECURED TO UNDERSIDE OF CORNICE. CABLE TO REMOVE LIGHT SOURCES WITH COORDINATED CONTROL SYSTEM.

MODIFY EXISTING ABANDONED LADDER TO CONNECT TO STEEL CATWALK TO RETURN AIR DUCT/CHANDELIER CABLE



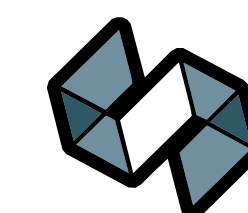
ORIGINAL LANTERN FRAMING WITH FLAGPOLE INSERTED AND WOOD FRAMING INSERTED TO CREATE EXISTING LANTERN DOME

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NO.	DATE	DESCRIPTION



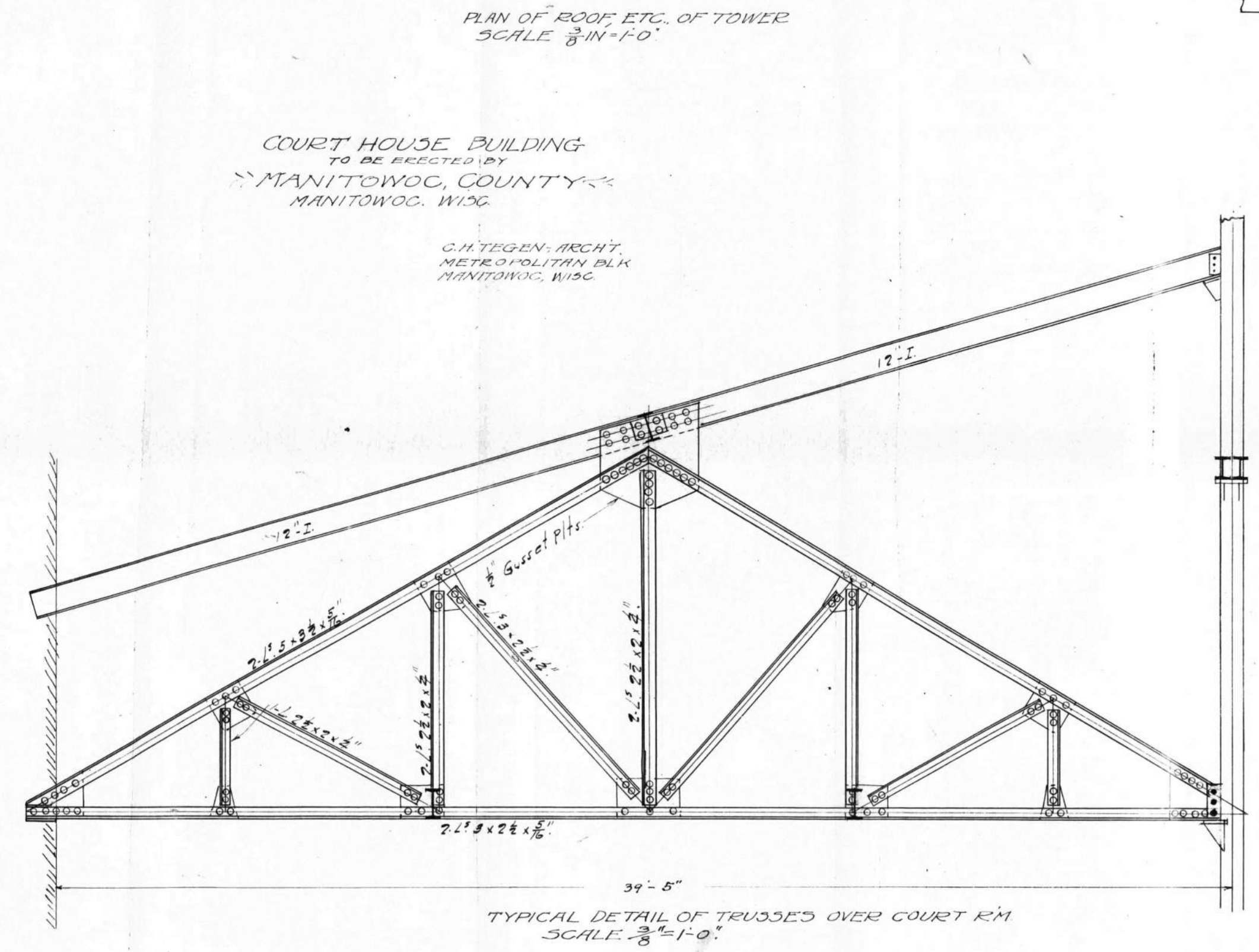
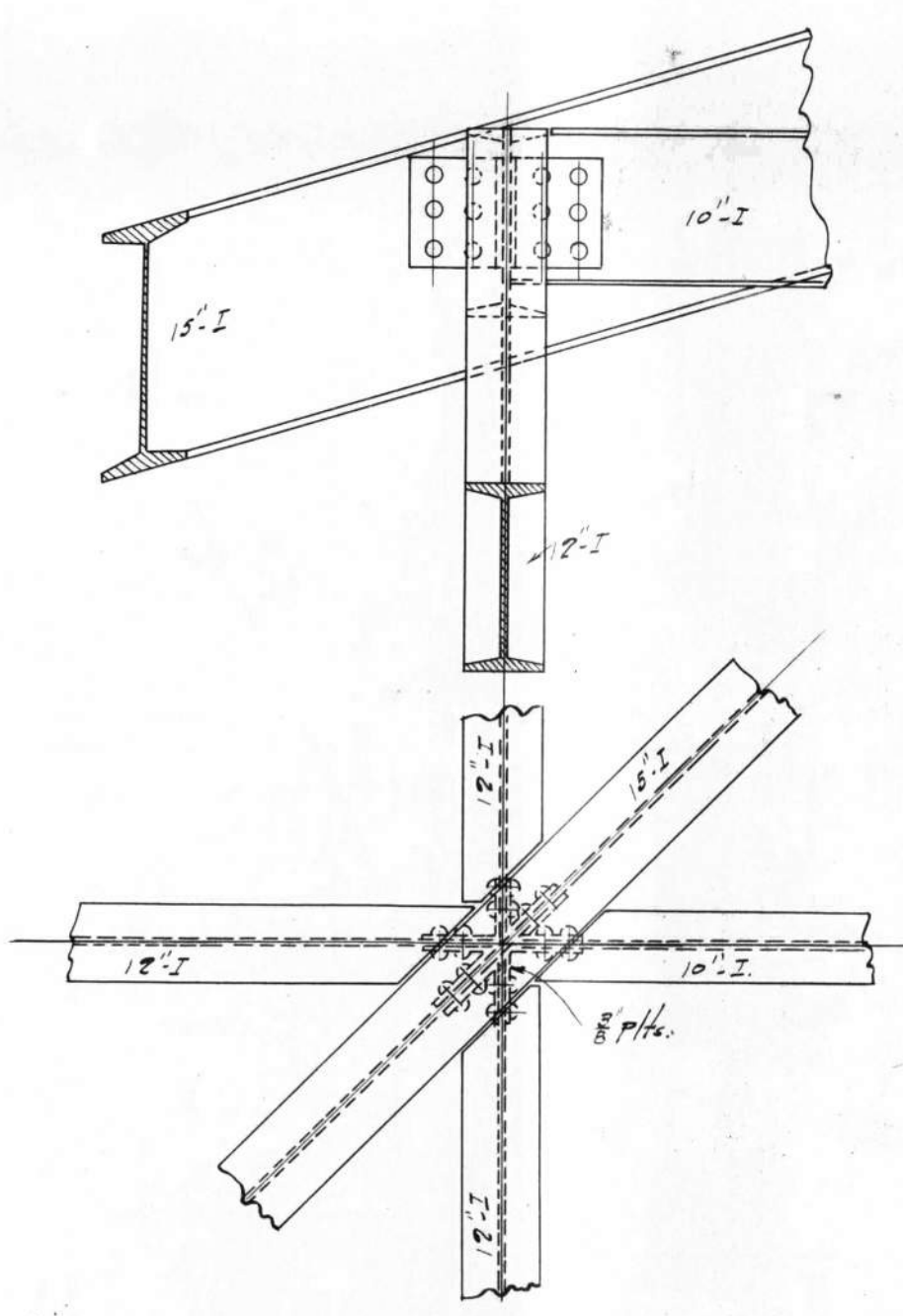
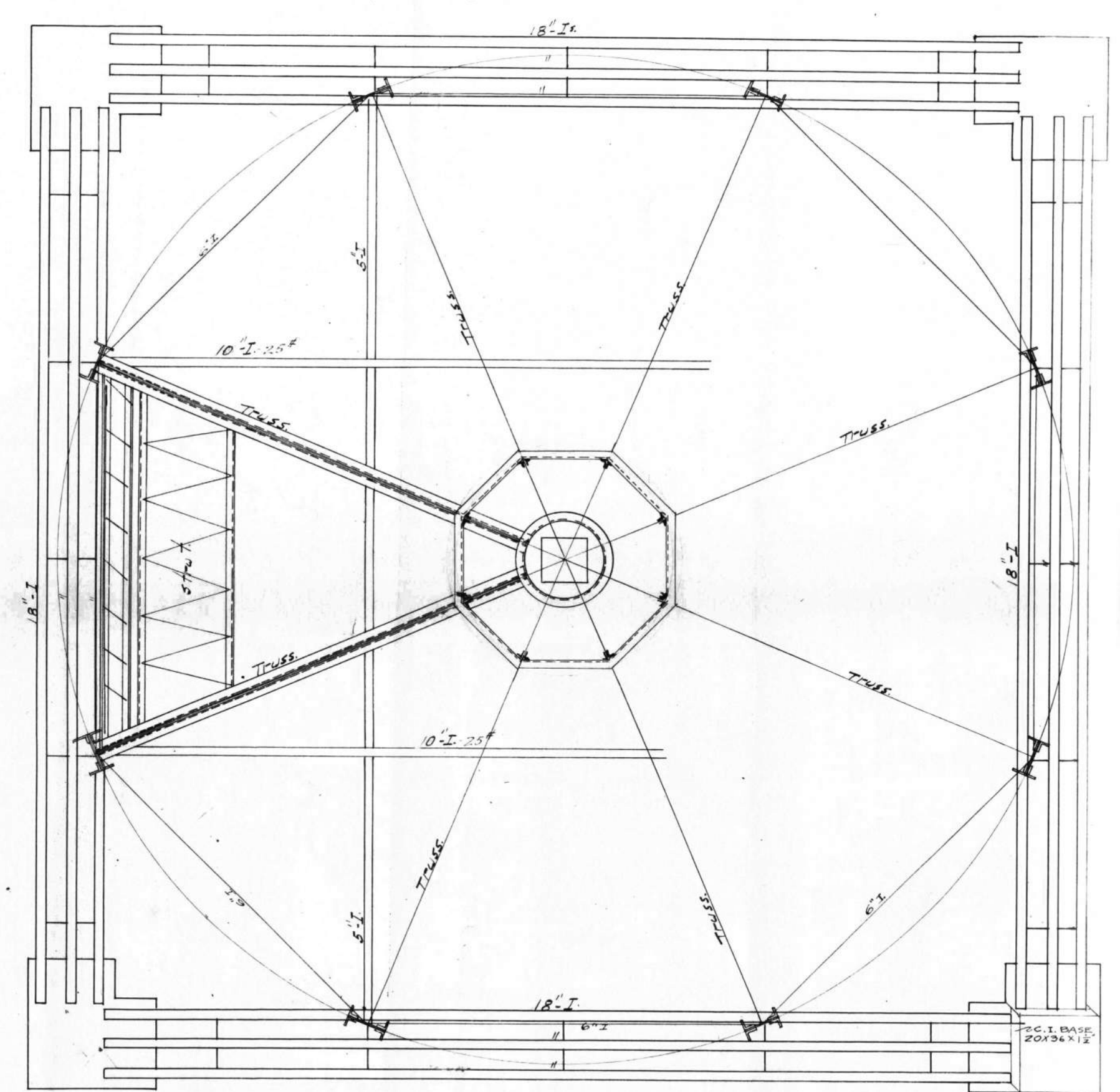
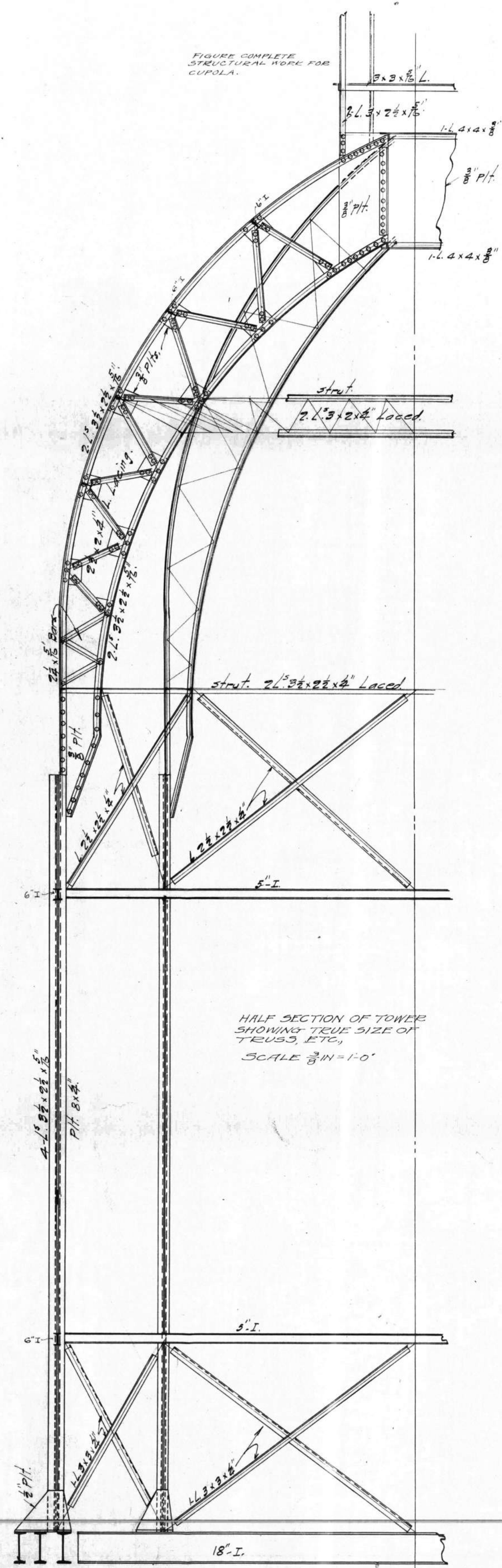
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ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

MADISON, WI | WAUKESHA, WI

NOTE: DRAWINGS SHOULD NOT BE CONSIDERED TO SCALE.
DRAWING SHEET HAS BEEN REDUCED FROM 3/8" TO 1/4"
SCALE, HOWEVER ORIGINAL DRAWINGS DO NOT MATCH
DIMENSION GIVEN ON COURTRUOM TRUSS.

EXISTING COLUMNS ARE BUILT FROM ANGLES AND PLATES,
HOT RIVETED TOGETHER. WE ARE NOT SURE HOW THIS
WILL IMPACT REPAIRS.



COURT HOUSE BUILDING
TO BE DIRECTED BY
MANITOWOC COUNTY
MANITOWOC, WISC.

C.H. TEGEN, ARCHT.
METROPOLITAN BLK
MANITOWOC, WISC.

HALF SECTION OF TOWER
SHOWING TRUE SIZE OF
TRUSS, ETC.,
SCALE 3/8"=1'-0"

TYPICAL DETAIL OF TRUSSES OVER COURT RM
SCALE 3/8"=1'-0"

18

KEYPLAN

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REVISIONS	NO.	DESCRIPTION	DATE

COUNTY DOME AND FACILITY IMPROVEMENTS STUDY

1010 S. 8TH STREET
MANITOWOC, WI 54220

DATE: 05/01/2022
DRAWING SET: ARCHITECTURAL SCOPING
PROJECT NO.: 2022011

NOT FOR CONSTRUCTION

ORIGINAL TOWER STRUCTURAL DRAWINGS

A502

5/1/2022 7:22:02 PM

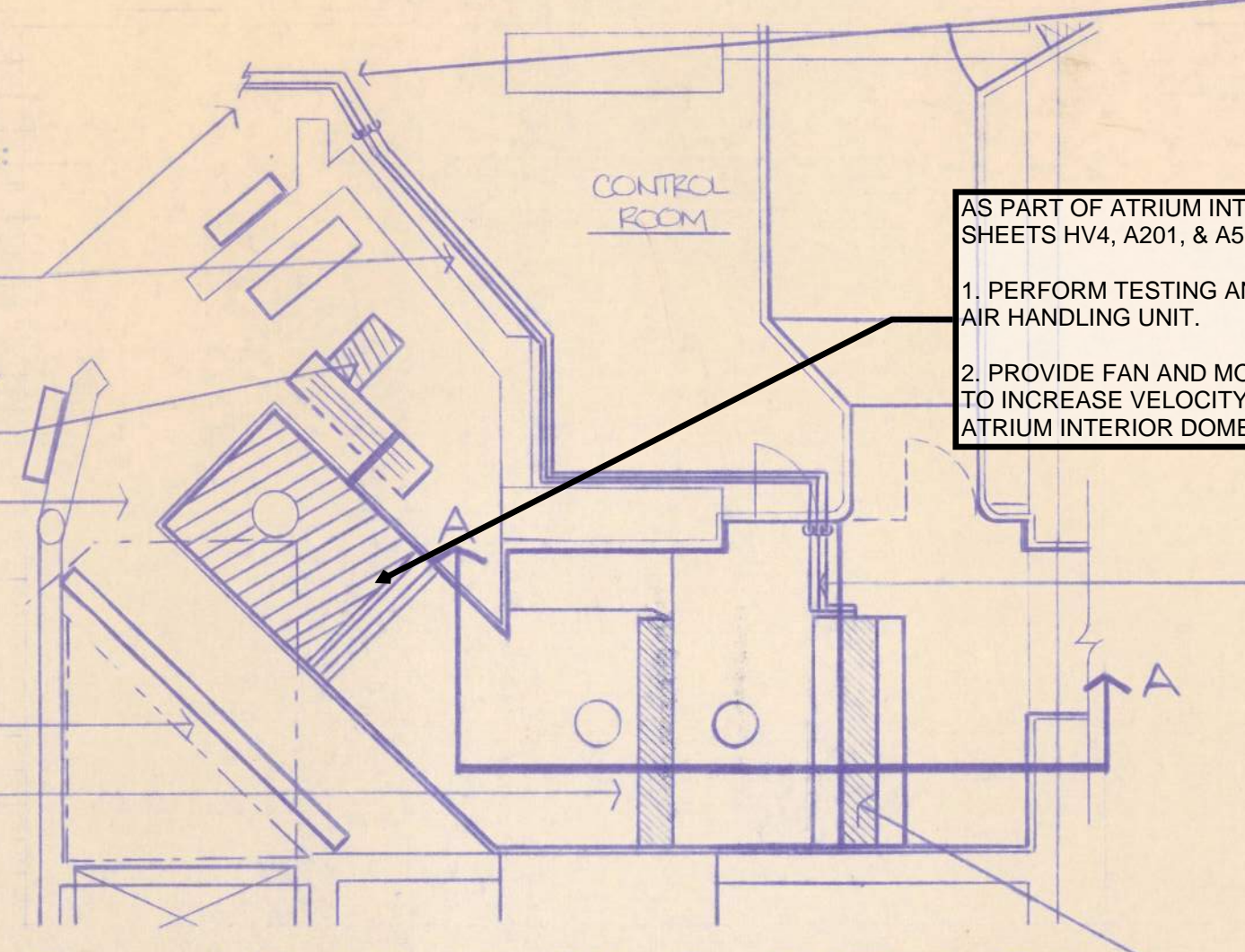
NEW REFRIGERANT LINES:
 1 3/8" LIQUID LINE
 2 1/8" SUCTION LINE
 1 3/8" H.G. BYPASS
 (FROM NEW ACCU)

EXIST. EDDY CURRENT
 CLUTCH TO BE REPLACED BY
 INLET VANES IN ALT. BLD.

FAN ROOM

EXIST. FILTER SECTION

EXIST. HEATING COIL



BUILT-UP AIR HANDLING SYSTEM PLAN
 (SCALE 1/4" = 1'-0")

AS PART OF ATRIUM INTERIOR DOME RESTORATION SCOPE (SEE SHEETS HV4, A201, & A501):
 1. PERFORM TESTING AND BALANCING REPORT ON FAN OF BUILTUP AIR HANDLING UNIT.
 2. PROVIDE FAN AND MOTOR REPLACEMENT WITH FAN ARRAY SYSTEM TO INCREASE VELOCITY AND REDUCE RETURN AIR DUCT SIZE AT ATRIUM INTERIOR DOME.

NEW REFRIGERANT LINES:
 1 3/8" LIQUID LINE
 2 1/8" SUCTION LINE
 1 3/8" H.G. BYPASS
 (TO EXIST. DX COOLING COIL PRESENTLY NOT CONNECTED.)

BOTH COOLING COILS ARE EXISTING. TOP COIL IS PRESENTLY ACTIVE, LOWER COIL IS CAPPED AND BLANK-OFF. BLANK-OFF AT LOWER COIL IS TO BE REMOVED, AND COIL IS TO BE PIPED TO NEW REFRIGERANT LINES FROM NEW ACCU. (SEE NEXT SHEET).

EXISTING COOLING COILS:
 (2) COILS EACH CAPABLE OF
 EAT 79.3 DB / 66.4 WB
 LAT 58 DB / 56.3 WB
 346 MBH / COIL, 28.71 TONS / COIL.
 NOTE: TOP COIL IS ACTIVE, CONNECT NEW REFRIGERANT LINES FROM NEW ACCU TO EXISTING LOWER DX COIL (PRESENTLY CAPPED).

ACCESS DOOR (EXIST.)
 LOWER COOLING COIL IS TO BE PIPED TO NEW REFRIG. LINES FROM NEW ACCU. EXIST. PIPE STUBS AT COIL ARE CAPPED PRESENTLY.
 EXISTING LOWER COOLING COIL BLANK-OFF (SHEET METAL) IS TO BE REMOVED.

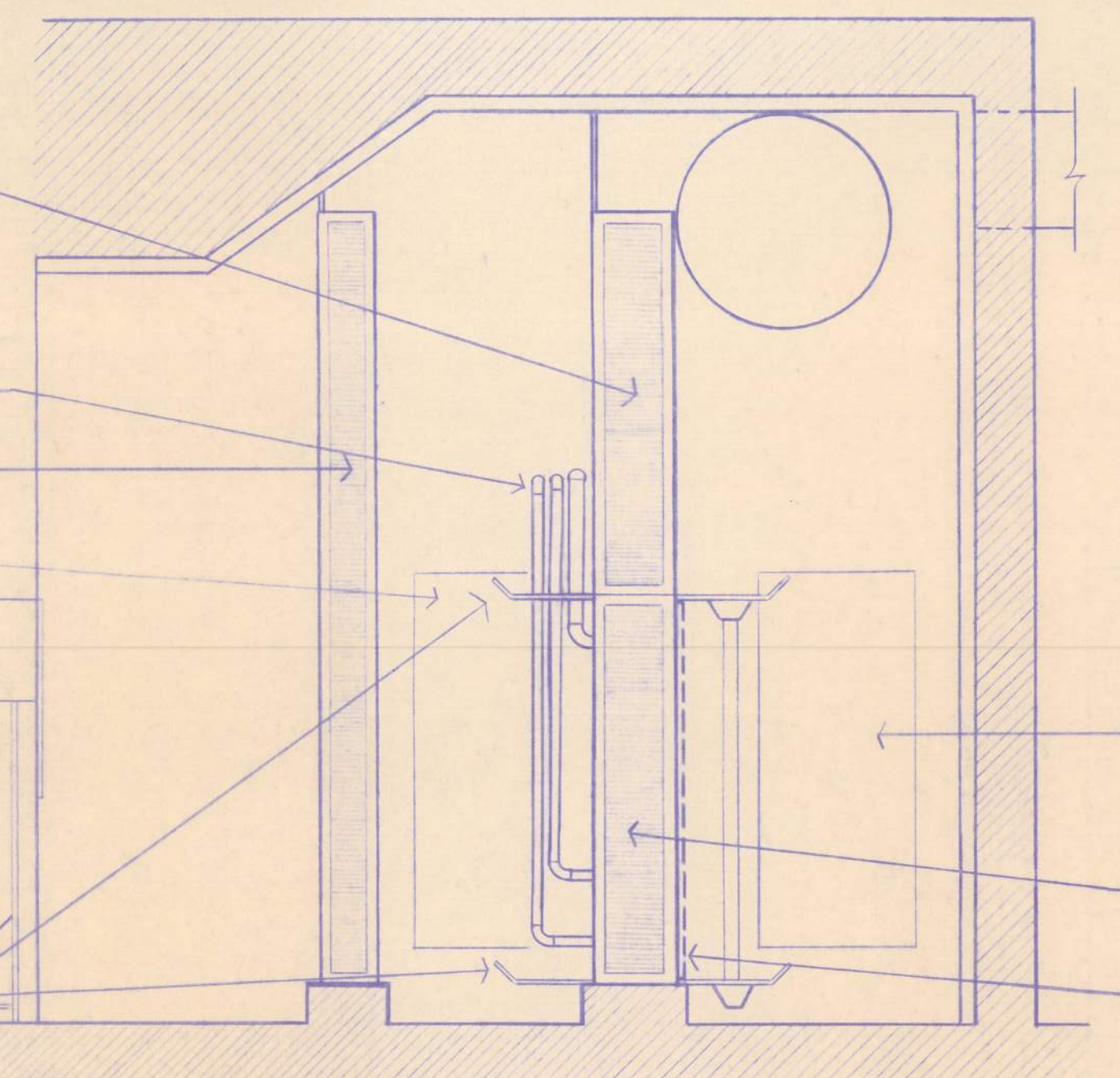
PRESENTLY ACTIVE DX COOLING COIL

NEW REFRIGERANT LINES INSULATE COMPLETE FROM NEW ACCU TO EXIST. COIL CONNECTIONS

EXIST. HEATING COIL

EXIST. ACCESS DOOR

EXISTING COIL FANS AND DRAIN

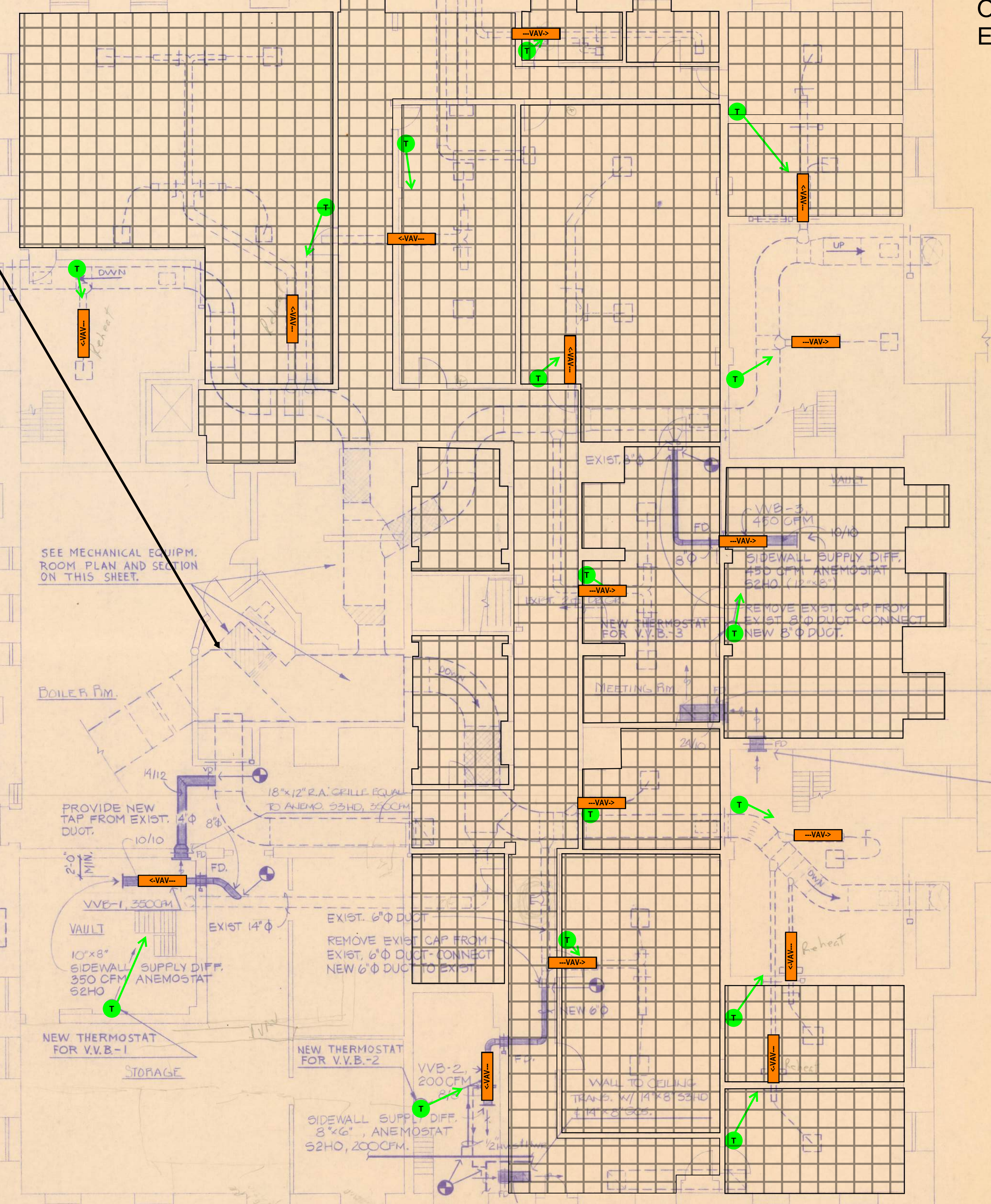


BUILT-UP AIR HANDLING SYSTEM SECTION A-A
 (SCALE 1/2" = 1'-0")

GENERAL NOTES. (NOTES PERTAIN TO ALL PORTIONS OF PROJECT)

- DASHED LINES INDICATE EXISTING EQUIPMENT.
- SHADED AREAS INDICATE DUCTWORK.
- SOLID CROSSHATCHED AREAS INDICATE NEW EQUIPMENT.
- INDICATES CONNECTION OF NEW TO EXISTING DUCTWORK OR PIPING
- H & V CONTRACTOR IS RESPONSIBLE FOR HIRING AN INDEPENDENT CEILING CONTRACTOR FOR THE REMOVAL AND COMPLETE REPLACEMENT OF ALL CEILING SYSTEMS (INCLUDING BOTH CEILING TILES AND GRID) REQUIRED FOR ACCESS MECHANICAL INSTALLATION. AT THE COMPLETION OF WORK ALL DAMAGED AND/OR STAINED CEILING TILES ARE TO BE REPLACED AT THE REQUEST OF THE ARCHITECT, ENGINEER, OR OWNER.

NEW REFRIGERANT PIPING THRU WALL AT SAME ELEVATION AS OLD PIPING, THEN DOWN BELOW OLD PIPING (EXTEND EXISTING RACK FOR NEW PIPING BELOW OLD).



SEE MECHANICAL EQUIPM. ROOM PLAN AND SECTION ON THIS SHEET.

BOILER RM.

PROVIDE NEW TAP FROM EXIST. 4" DUCT.

NEW THERMOSTAT FOR V.V.B.-1

NEW THERMOSTAT FOR V.V.B.-2

REMOVE EXIST. CAP FROM EXIST. 6" DUCT. CONNECT NEW 6" DUCT TO EXIST.

NEW THERMOSTAT FOR V.V.B.-3

MEETING RM.

NEW 6"

WALL TO CEILING TRANSFER W/ 18"x10" 53HD GRILLES (ANEMOSTAT).

WALL TO CEILING TRANSFER W/ 24"x12" 53HD AND 24"x24" GCS.

WALL TRANSFER (2) 18"x10", 53HD GRILLES (ANEMOSTAT). PROVIDE FIRE DAMPERS.

WALL TO CEILING TRANSFER W/ 18"x10" 53HD GRILLES (ANEMOSTAT).

WALL TO CEILING TRANSFER W/ 18"x10" 53HD GRILLES (ANEMOSTAT).

BASEMENT FLOOR PLAN
 SCALE: 1/8" = 1'-0"

NOTE: GRID INDICATES ROOMS WITH DROPPED CEILINGS, ALL OTHER AREAS OF WORK HAVE EXPOSED DUCTWORK



SHRS, HVAC-1-9 8/11/84

8/1/84

COUNTY DOME AND FACILITY IMPROVEMENTS STUDY
 HVAC SCOPE DRAWINGS
 05/01/2022

SHEBOYGAN, WIS.
 APPLETON, WIS.
 APPLETON, WIS.
 APPLETON, WIS.
 APPLETON, WIS.
 APPLETON, WIS.
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 APPLETON, WIS.

THE STUBENRAUCH ASSOCIATES INC.
 ARCHITECTURE - ENGINEERING - PLANNING



Heating, Ventilation & Air Conditioning Projects
 COURTHOUSE, COUNTY OFFICE BLDG., EXPO MERCHANTS BLDG.
 Manitowoc County - Manitowoc, Wisconsin

DRAWN BY

DATE
 AUG 10, 1984

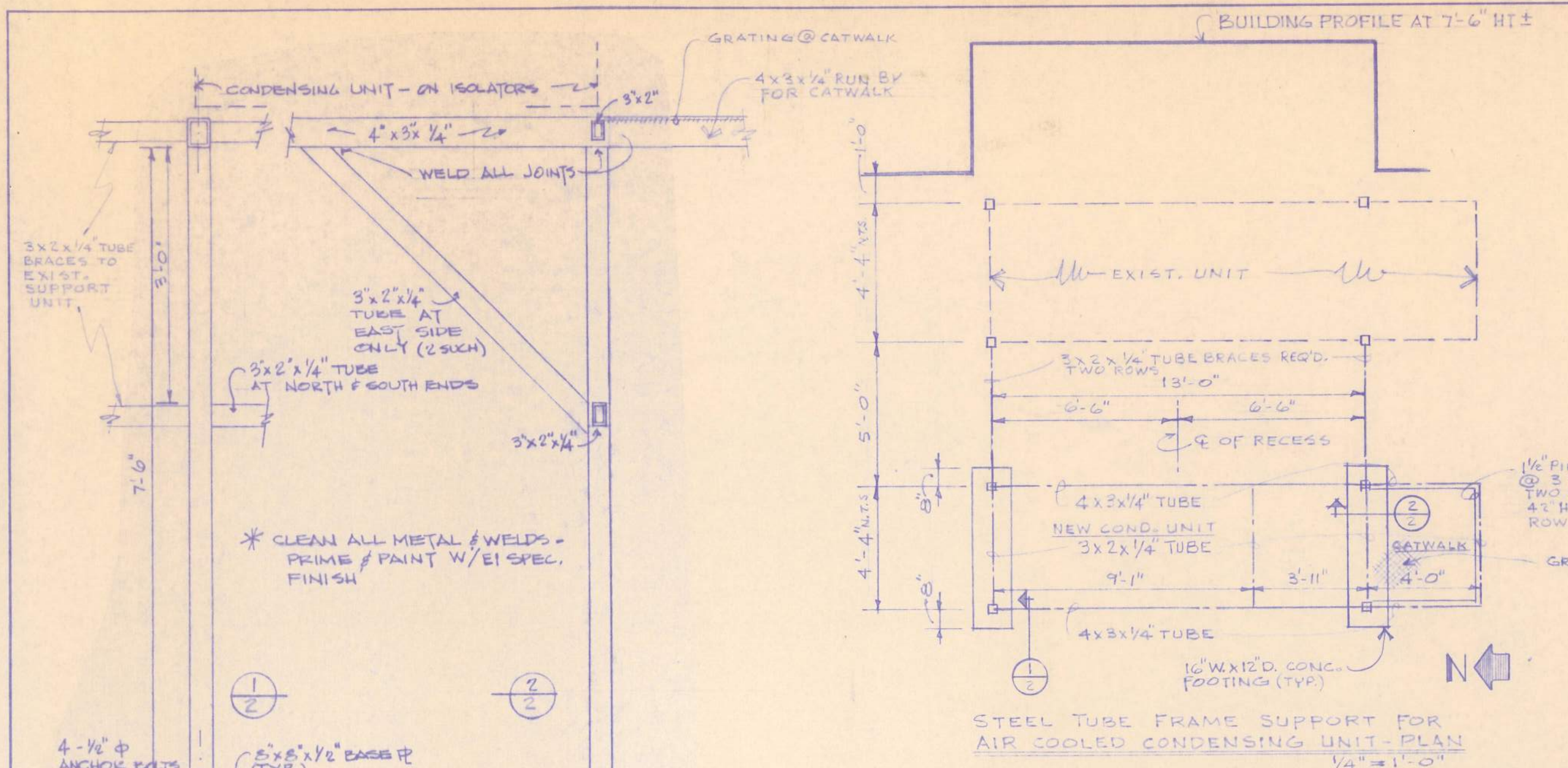
PROJ. NO.
 2415

24-1
 OF 5

SHEET
 HV-1

PRINTED AUG 21 1984

Courthouse



SUPPORT UNIT DETAILS
 3/4" = 1'-0"

* CLEAN ALL METAL & WELDS - PRIME & PAINT W/ EI SPEC. FINISH

3x2x1/2" TUBE BRACES TO EXIST. SUPPORT UNIT.

3x2x1/2" TUBE AT EAST SIDE ONLY (2 SUCH)

3x2x1/2" TUBE AT NORTH & SOUTH ENDS

WELD ALL JOINTS

4x3 1/2" TUBE

10" x 12" CONC. FOOTING (TYP)

STEEL TUBE FRAME SUPPORT FOR AIR COOLED CONDENSING UNIT - PLAN
 1/4" = 1'-0"

NEW ACCU-2
 EQUAL TO CARRIER MODEL
 38A003A-521, 371 MBH, 75"AMB, 15"SS1,
 (1) COMPRESSOR: MODEL CGES 270
 208/230 V, 120 FLA, 506 WRA.
 CONDENSER FANS: (3) 1 H.P. EACH
 NO. 1 - 6.2 FLA, 4.05 KW
 NO. 2, 3 - 6.6 FLA, 4.05 KW
 MOUNT ON RACK ON SPRING ISOLATORS. ELECTRICAL WIRING AS REQUIRED BY H.V. CONTRACTOR.

EXISTING ACCU IN PIPE RACK TO REMAIN AS EXISTING.

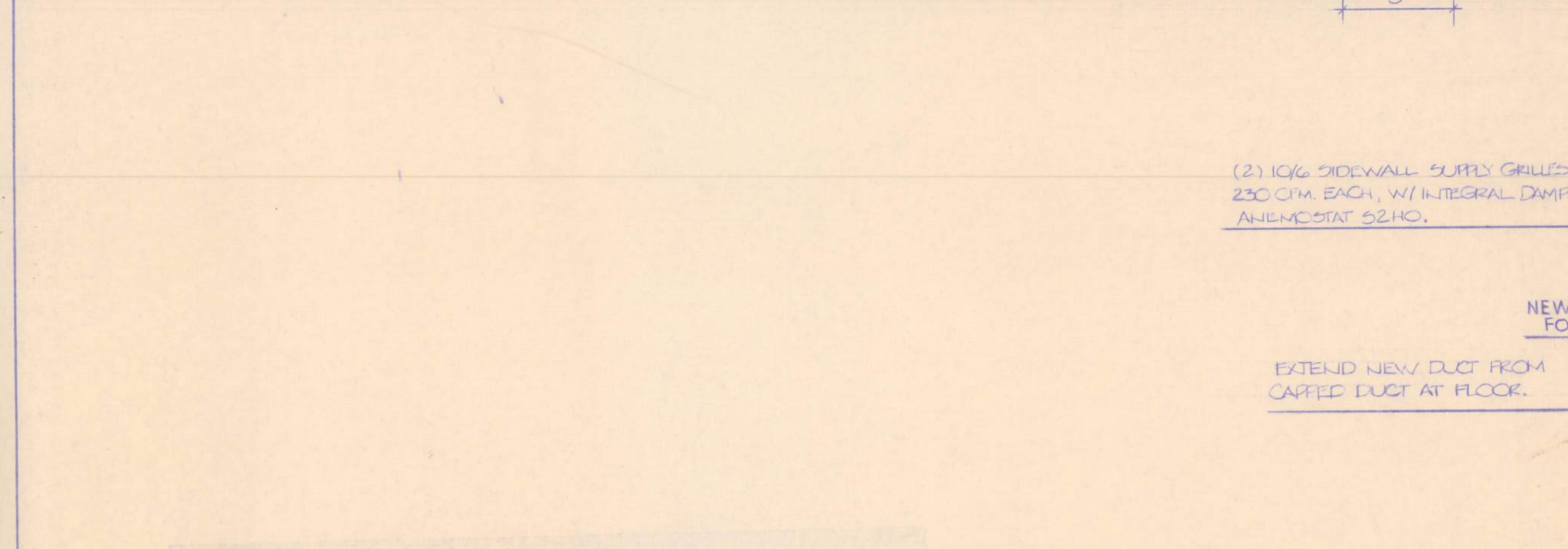
NEW REFRIG. LINES BELOW NEW AND EXISTING ACCU'S, DOWN ALONG WALL INTO CEILING OF BOILER ROOM AND OVER TO COOLING COIL.

ACCU-1 (EXISTING)

ACCU-2 (NEW UNIT & PIPE STAND)

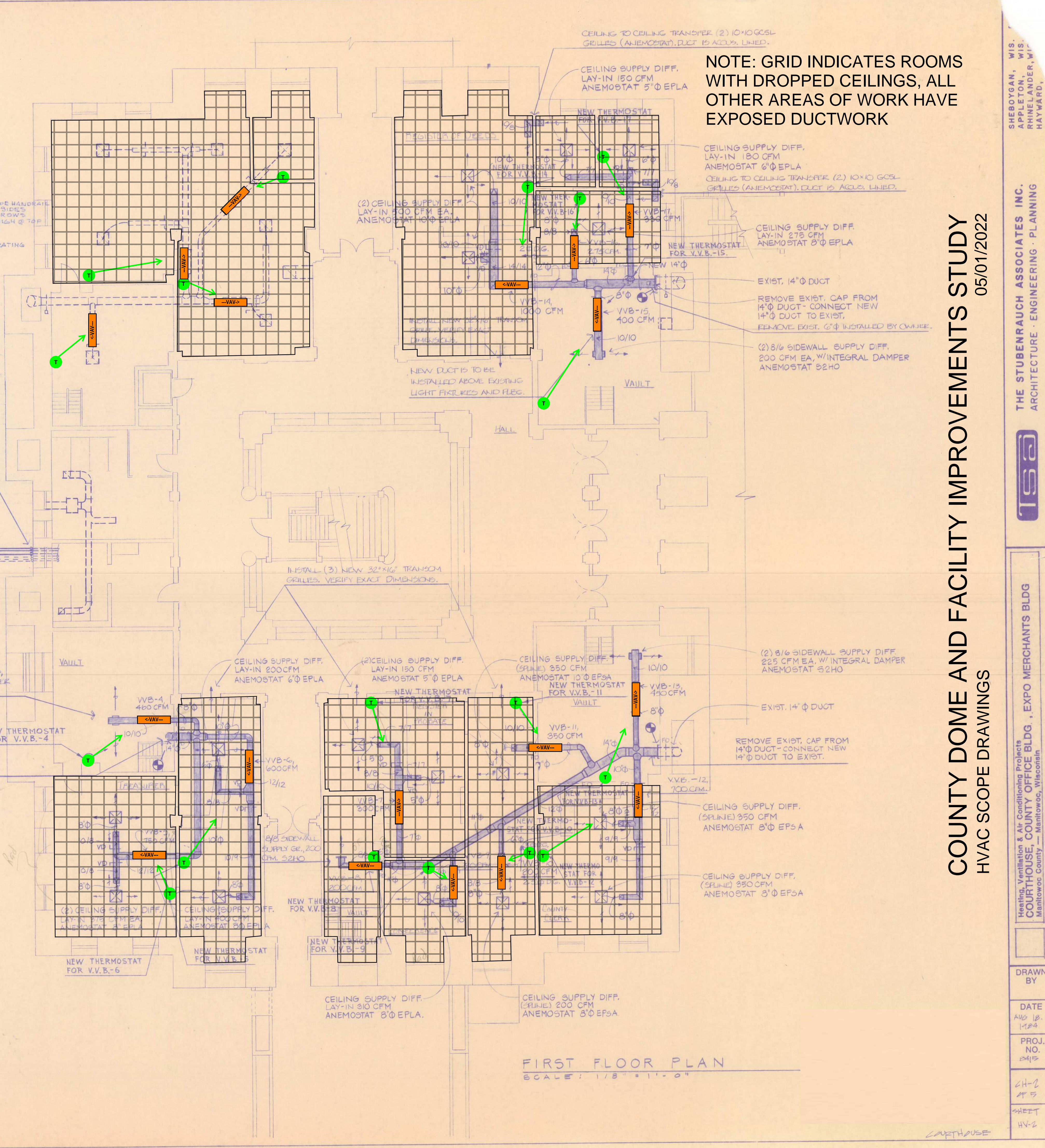
NEW PIPE STAND FOR NEW ACCU-2

SERVICE DECK SAME AS EXISTING



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COUNTY DOME AND FACILITY IMPROVEMENTS STUDY
HVAC SCOPE DRAWINGS

05/01/2022

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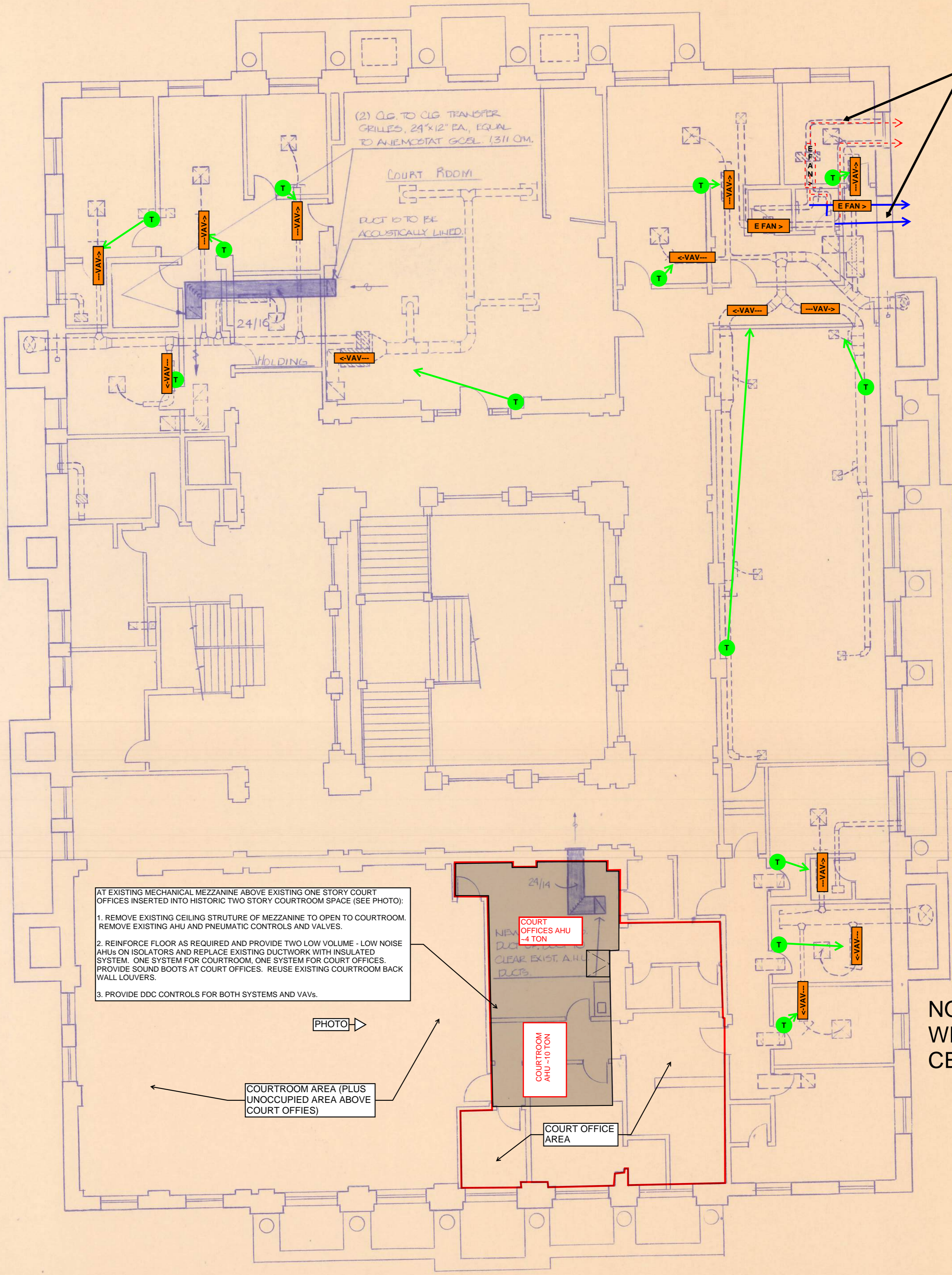
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 Manitowish County — Manitowish, Wisconsin

DRAWN BY
 DATE
 PROJ. NO.
 SHEET
 HV-2

CARTRHOUSE



COURTROOM LOOKING EAST TOWARDS COURT OFFICES BUILT INTO COURTROOM



AS PART OF WINDOW REPLACEMENT SCOPE (SEE SHEET A401):
 1. REMOVE EXISTING DUCTWORK AND LOUVERS THROUGH WINDOW TO BE REPLACED.
 2. PROVIDE NEW DUCTWORK, EXHAUST FANS, AND LOUVERS. EXHAUST THROUGH TOP TRANSOM OF REPLACED DOORWAY TO FIRE ESCAPE.

AT EXISTING MECHANICAL MEZZANINE ABOVE EXISTING ONE STORY COURT OFFICES INSERTED INTO HISTORIC TWO STORY COURTROOM SPACE (SEE PHOTO).
 1. REMOVE EXISTING CEILING STRUCTURE OF MEZZANINE TO OPEN TO COURTROOM. REMOVE EXISTING AHU AND PNEUMATIC CONTROLS AND VALVES.
 2. REINFORCE FLOOR AS REQUIRED AND PROVIDE TWO LOW VOLUME - LOW NOISE AHUs ON ISOLATORS AND REPLACE EXISTING DUCTWORK WITH INSULATED SYSTEM. ONE SYSTEM FOR COURTROOM, ONE SYSTEM FOR COURT OFFICES. PROVIDE SOUND BOOTS AT COURT OFFICES. REUSE EXISTING COURTROOM BACK WALL LOUVERS.
 3. PROVIDE DDC CONTROLS FOR BOTH SYSTEMS AND VAVs.

NOTE: ASSUME ALL ROOMS WITH VAVs HAVE DROPPED CEILINGS.

GENERAL NOTES. (NOTES PERTAIN TO ALL PORTIONS OF PROJECT)

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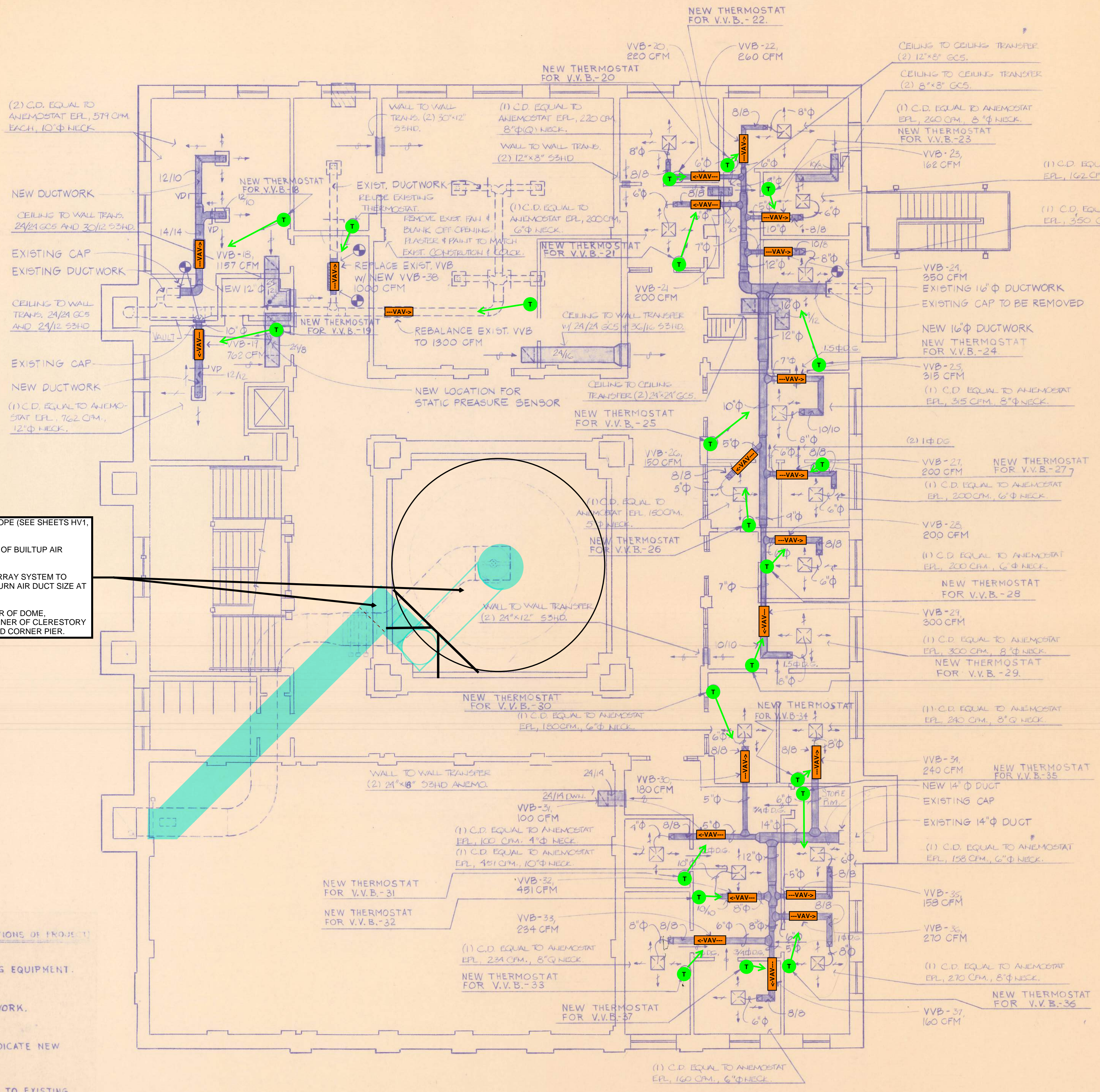
SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"

COUNTY DOME AND FACILITY IMPROVEMENTS STUDY
 HVAC SCOPE DRAWINGS
 05/01/2022

COUNTY DOME AND FACILITY IMPROVEMENTS STUDY
HVAC SCOPE DRAWINGS

05/01/2022

NOTE: ASSUME ALL ROOMS WITH WORK HAVE DROPPED CEILINGS



AS PART OF ATRIUM INTERIOR DOME RESTORATION SCOPE (SEE SHEETS HV1, A401, & A501):

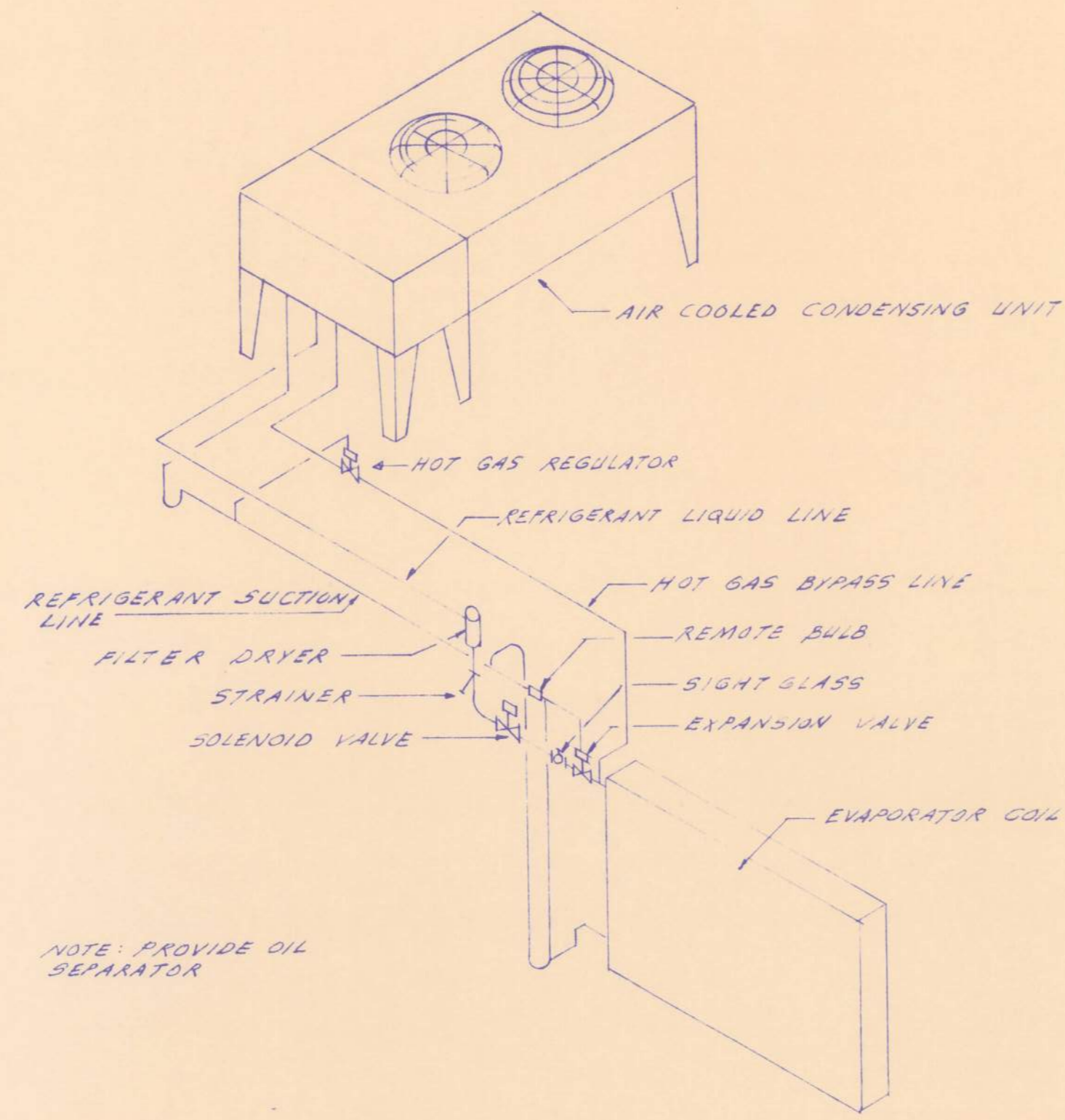
1. PERFORM TESTING AND BALANCING REPORT ON FAN OF BUILTUP AIR HANDLING UNIT.
2. PROVIDE FAN AND MOTOR REPLACEMENT WITH FAN ARRAY SYSTEM TO INCREASE VELOCITY OF RETURN AIR AND REDUCE RETURN AIR DUCT SIZE AT ATRIUM INTERIOR DOME.
3. PROVIDE 6' DIAMETER DUCT RISING UP FROM CENTER OF DOME, TRANSITION TO 5' DIAMETER DUCT, DROP DOWN IN CORNER OF CLERESTORY AT PIER AND RETURN TO FLOOR MOUNTED DUCT BEHIND CORNER PIER.

GENERAL NOTES. (NOTES PERTAIN TO ALL PORTIONS OF PROJECT)

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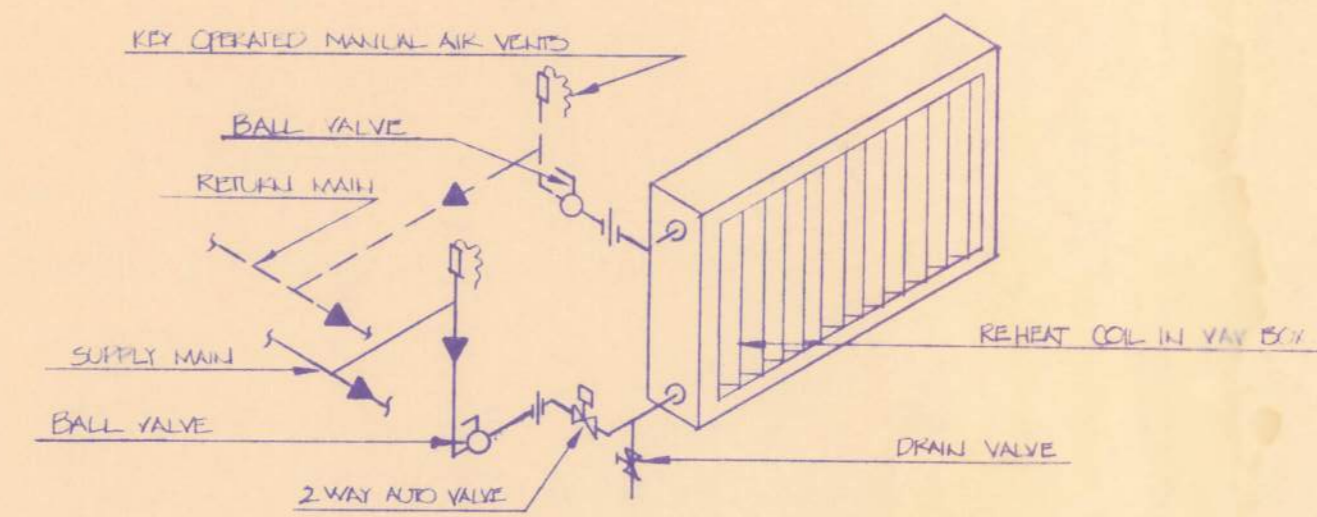
THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"

VARIABLE VOLUME BOX										
BOX NO	ROOM NO	CFM	SPAT CFM	N.C. AIRBORN AT 1/2" S.P.	MANUFACTURER & MODEL NO (ANEMOSTAT)	DUCT SIZE INLET	DUCT SIZE OUTLET	AIR HANDLING UNIT SERVED	MIN CFM	REMARKS
VVB-1	B29	350	.15	<27	VF-PVM-08-S	8"Ø	10/10	CENTRAL	35	ACTUATOR BY CONTR.
2	VAULT	200	.20	<22	06	6"Ø	8/8		20	BOX HAS REHEAT
3	B 27A	450	.20	<27	08	8"	10/10		40	ACTUATOR BY CONTROLS
4	VAULT II	460	.25	<28	08	8"	10/10		46	
5	113	750	.30	21	10	10"	12/12		75	
6	113A	600	.19	20	10	10"	12/12		60	
7	103	300	.18	<25	07	7"	10/10		30	
8	VAULT	200	.14	<24	06	6"	8/8		20	
9	102	310	.18	<25	07	7"	10/10		31	
10	COUN. CLERK.	200	.14	<24	06	6"	8/8		20	
11	"	350	.25	<26	07	7"	10/10		35	
12	"	700	.25	21	10	10"	12/12		70	
13	VAULT II	450	.20	<28	08	8"	10/10		45	
14	REG. OF DEEDS.	1000	.20	<30	12	12"	14/14		100	
15	VAULT III	400	.18	<27	08	8"	10/10		40	
16	REG. OF DEEDS.	275	.25	<24	06	6"	8/8		28	
17		330	.20	<25	07	7"	10/10		33	
18		1157	.25	<30	12	12"	14/14		116	
19		762	.30	21	10	10"	12/12		76	
20		220	.18	<25	06	6"	8/8		22	
21		200	.14	<24	06	6"	8/8		20	
22		260	.26	<26	06	6"	8/8		26	
23		162	.20	<28	05	5"	8/8		16	
24		350	.25	<26	07	7"	10/10		35	
25		315	.20	<25	07	7"	10/10		32	
26		150	.18	<23	05	5"	8/8		15	
27		200	.14	<24	06	6"	8/8		20	
28		200	.14	<24	06	6"	8/8		20	
29		300	.18	<25	07	7"	10/10		30	
30		180	.25	<26	05	5"	8/8		18	
31		100	.08	<20	05	5"	8/8		10	
32		451	.22	<28	08	8"	10/10		45	
33		234	.20	<26	06	6"	8/8		23	
34		240	.20	<26	06	6"	8/8		24	
35		158	.18	<23	05	5"	8/8		16	
36		270	.30	<26	06	6"	8/8		27	
37		160	.18	<23	05	5"	8/8		16	
38	COMP. ROOM	1000	.20	<30	12	12"	14/14		100	



NOTE: PROVIDE OIL SEPARATOR

TYPICAL PIPING CIRCUIT - REFRIGERANT FLOW DIAGRAM
NO SCALE



HOT WATER VAV BOX COIL OR
DUCT BOOSTER COIL PIPING DETAIL
(NO SCALE)

REHEAT COILS															
MARK	LOCATION	SYSTEM	DUCT SIZE		AIR SIDE				COIL CHARACTERISTICS				REMARKS		
			H	W	CFM	PD (W/G)	TEMP IN	TEMP OUT	CAP. (MBH)	FACE AREA	NO. ROWS	FINE PER INCH		SIZE H	SIZE L
VVB-2	VAULT	CENTRAL	8	8	20	.10	55°	80°	5.5	.68Ø	1	10	10"	10"	AUTO VALVE AT COIL.

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Heating, Ventilation & Air Conditioning Projects
COURTHOUSE, COUNTY OFFICE BLDG., EXPO MERCHANTS BLDG.
Menasha, Wisconsin

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AUG 18
1984

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8415

SH-5

SH-5

SH-5

HV-5



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