

Harry S. Truman Memorial Veterans' Hospital

800 Hospital Drive Columbia, MO 65201

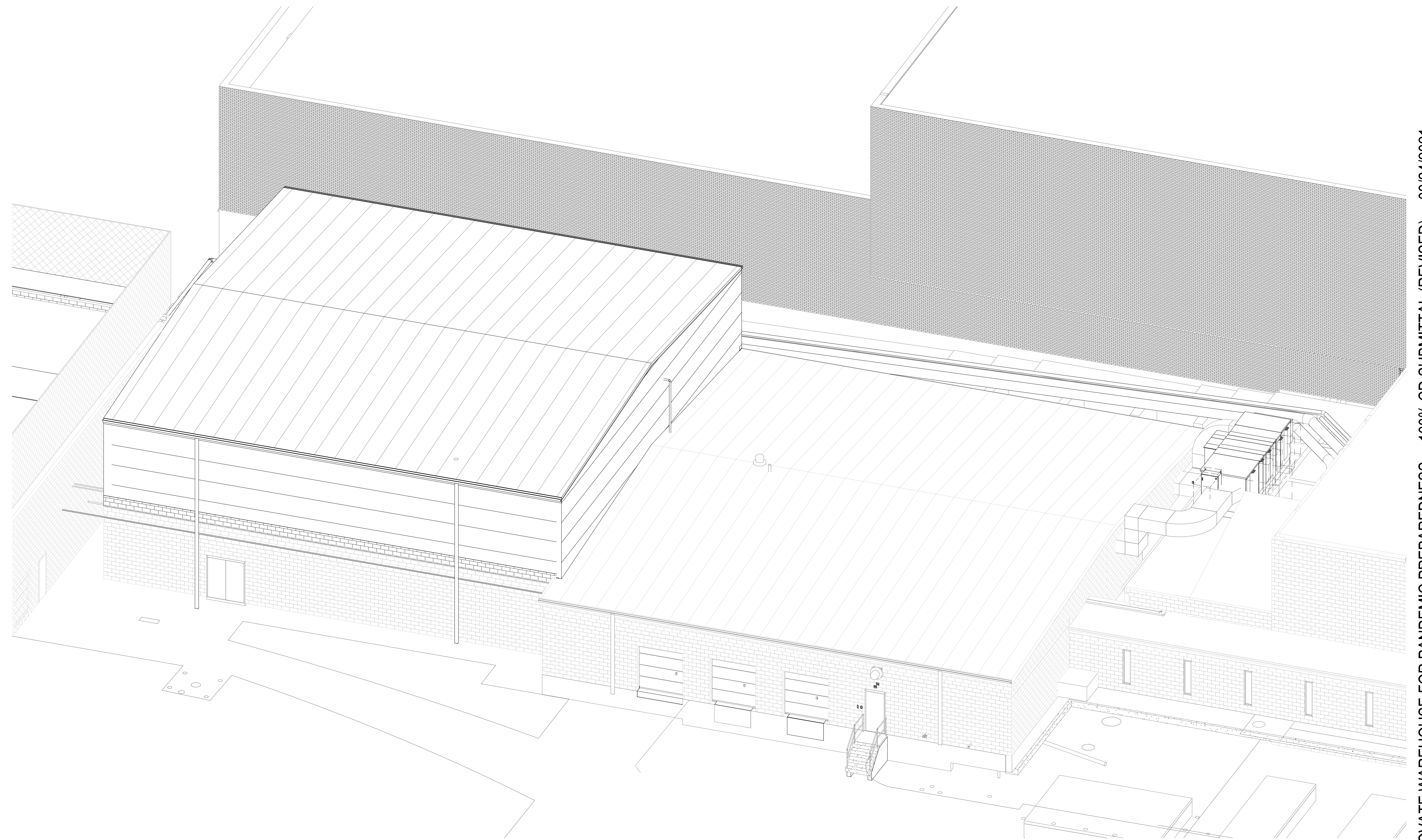
VA Project No. 589A4-20-158



RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS



LOCATION MAP/PHOTO
NOT TO SCALE



INTEGRATED PROJECT TEAM APPROVAL SIGNATURES

Director	Date
Chief of Staff	Date
Associate Director	Date
Assistant Director	Date
Associate Director of Patient Services	Date
Executive of High Reliability	Date
Chief of Logistics	Date
Infection Control	Date
Safety Officer	Date
Chief Facilities Management	Date

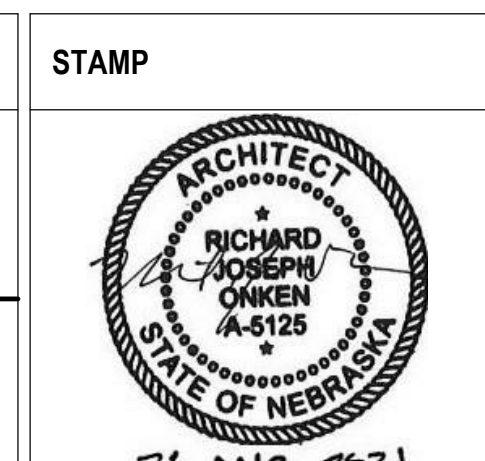
BID SET	03/24/2021
Revisions:	Date:

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incandescence life safety
a fire protection engineering firm



Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title	COVER SHEET
Approved:	

Phase	BID SET
	FULLY SPRINKLERED

Project Title	RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS	
Location	HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201	
Issue Date	Checked	Drawn
03/24/2021	AHT	TJF

Project Number	589A4-20-158
Building Number	14
Drawing Number	G-001
Dwg. #	1 of 94

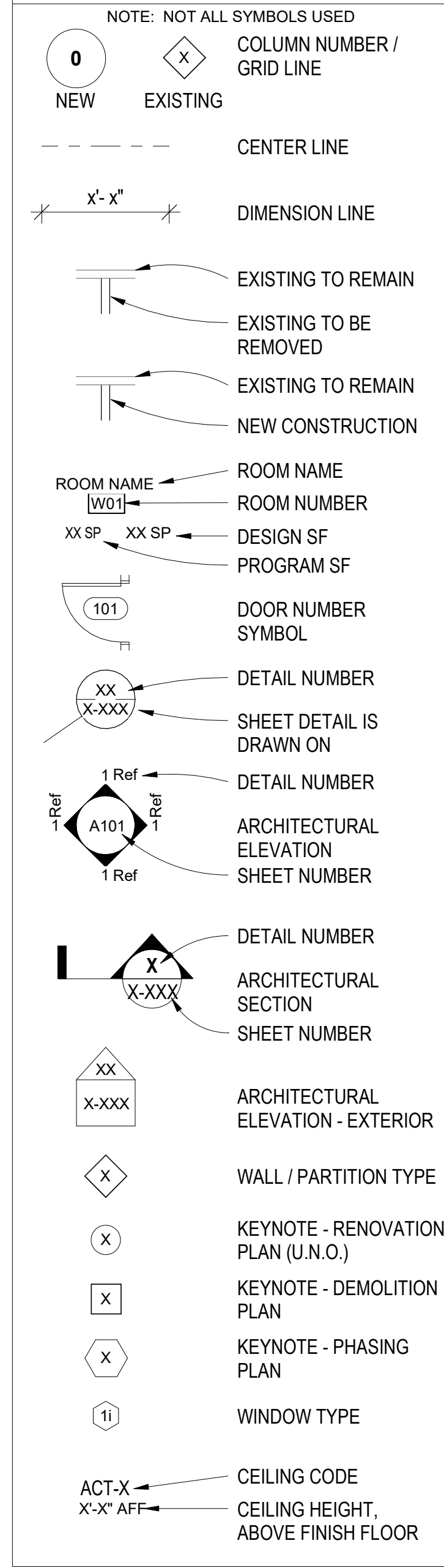
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RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS 100% CD SUBMITTAL (REVISED) 03/24/2021

ABBREVIATIONS

Table of abbreviations for construction terms, including AB (Anchor Bolt), ACT (Acoustic Tile), ADJ (Adjustable), etc., organized in columns.

ARCHITECTURAL SYMBOLS



ARCHITECTURAL GENERAL NOTES:

- List of 16 general notes regarding construction standards, fire ratings, and material specifications.

TEMPORARY BARRIERS & ENCLOSURES:

- List of 7 notes detailing requirements for temporary barriers and enclosures during construction.

Index of Drawings - General

Table listing general drawing sheets: G-001 (Cover Sheet), G-002 (Abbreviations, Symbols, etc.), G-003 (Wall Types & Details), etc.

Index of Drawings - Structural

Table listing structural drawing sheets: S-001 (General Notes - Structural), S-002 (General Notes, Abbreviations - Structural), etc.

Index of Drawings - Architectural

Table listing architectural drawing sheets: AS101 (Architectural Site Plan), AD101 (Floor Plan - Demolition), AD102 (Roof Plan - Demolition), etc.

Index of Drawings - Fire Protection

Table listing fire protection drawing sheets: FA101 (Fire Alarm System Plan), FX101 (Fire Suppression System Plan).

Index of Drawings - Plumbing

Table listing plumbing drawing sheets: P-000 (Plumbing Coversheet), PD101 (First Floor Plan - Plumbing Demolition), etc.

Index of Drawings - Mechanical

Table listing mechanical drawing sheets: M-000 (Mechanical Coversheet), MD101 (First Floor Plan - Mechanical Demolition), etc.

Index of Drawings - Electrical

Table listing electrical drawing sheets: E-000 (Electrical Coversheet), E-110 (Chiller Plant Plan - Electrical), etc.

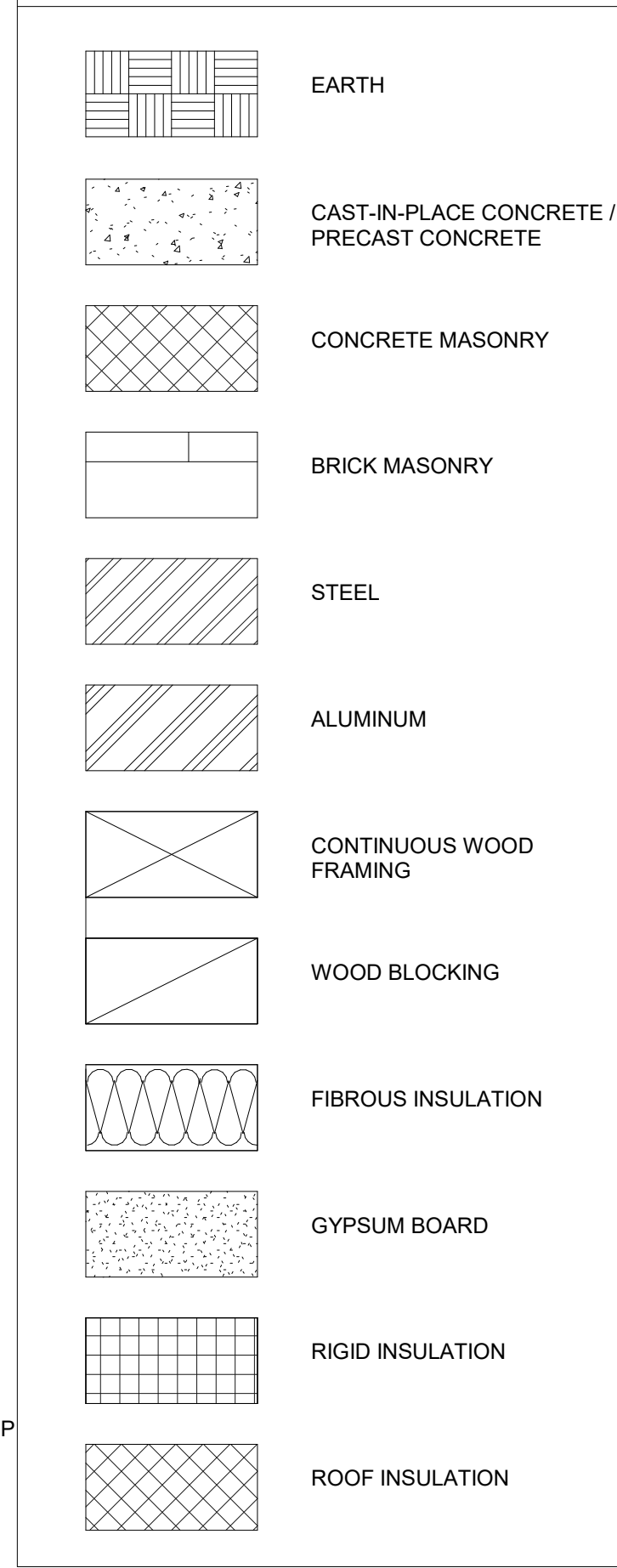
Index of Drawings - Technology

Table listing technology drawing sheets: T-000 (Technology Coversheet), TD101 (First Floor Plan - Technology Demolition), etc.

Index of Drawings - Resource

Table listing resource drawing sheets: RA101 (Existing Conditions Plan & Exterior Photos), RA102 (Existing Conditions Plan & Int. Photos - West Warehouse), etc.

MATERIAL SYMBOLS



HAZARDOUS MAT'LS:

- List of 6 notes regarding hazardous materials, asbestos, and lead-based paint abatement procedures.

FIRE PROOFING GENERAL NOTES:

- List of 4 notes regarding fireproofing requirements, including fire-rated walls and caulking.

BID ITEMS & DEDUCT ALTERNATES:

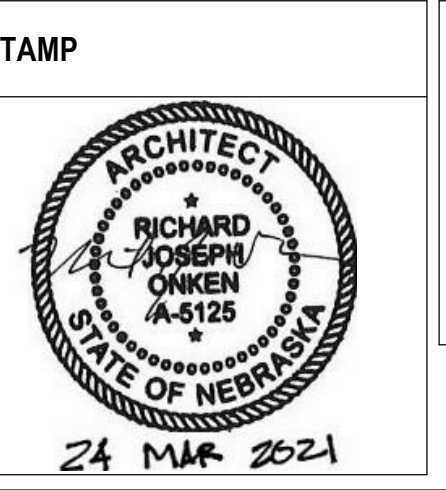
- List of 2 notes regarding bid items and deduct alternates for construction work.

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Vertical text on the right margin: A, B, C, D, E, F

Table for project information: BID SET, Revisions, Date: 03/24/2021

ARCHITECT/ENGINEER OF RECORD: Calvin L. Hinz Architects, P.C. and IMEG logo.



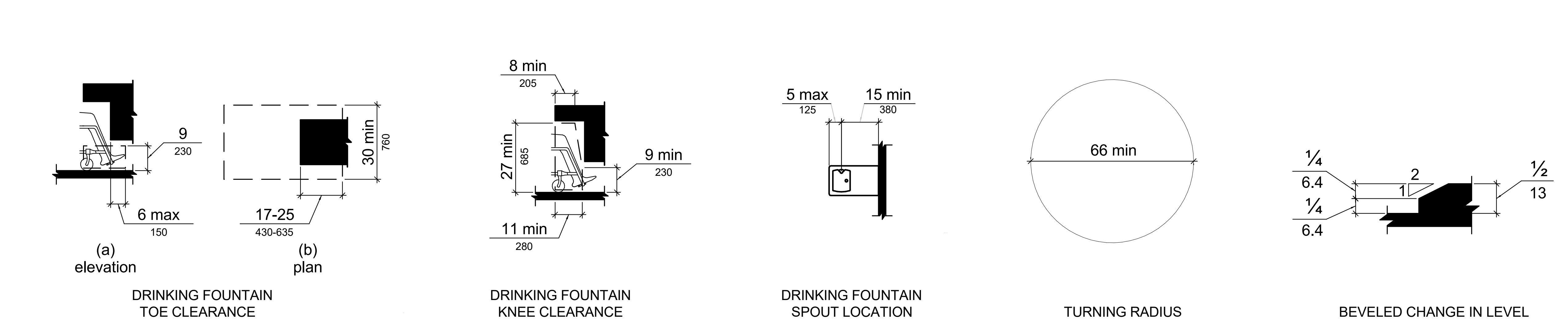
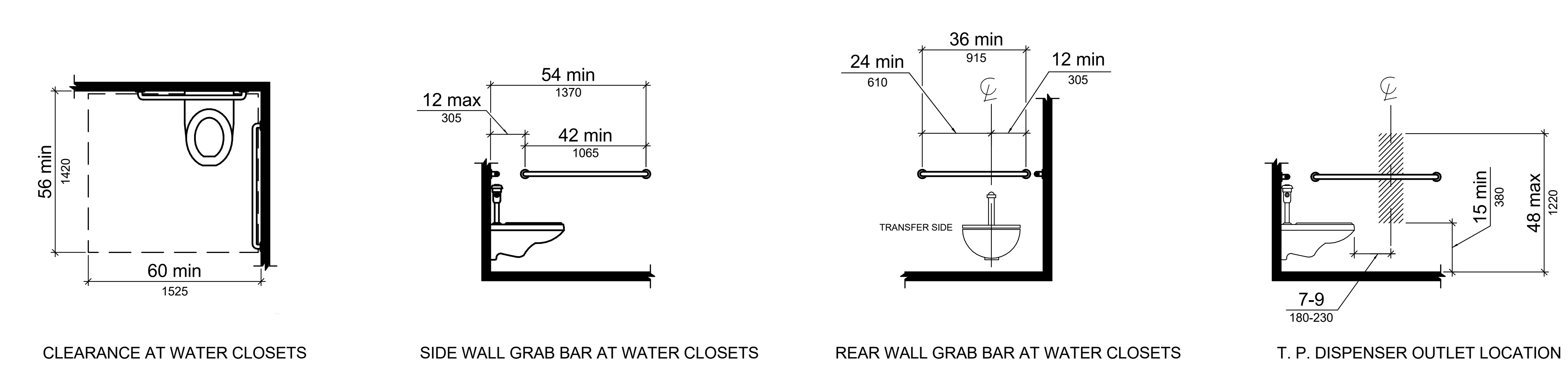
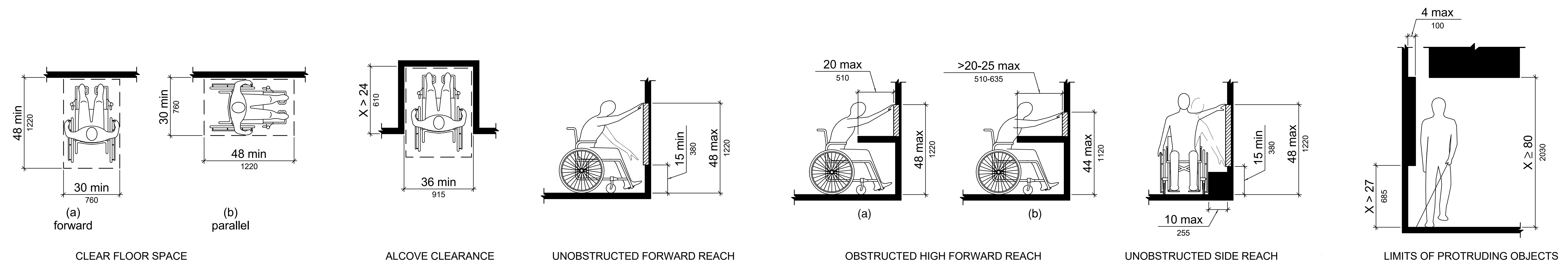
Office of Construction and Facilities Management, U.S. Department of Veterans Affairs

Table with Drawing Title: ABBREVIATIONS, SYMBOLS, GENERAL NOTES & INDEX OF DRAWING

Phase: BID SET, FULLY SPRINKLERED

Table with Project Title: RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS, Project Number: 58944-20-158, Drawing Number: G-002

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Convention	Description
$\frac{36}{915}$	dimension showing English units (in inches unless otherwise specified) above the line and SI units (in millimeters unless otherwise specified) below the line
$\frac{6}{150}$	dimension for small measurements
$\frac{33-36}{840-915}$	dimension showing a range with minimum - maximum
min	minimum
max	maximum
>	greater than
≥	greater than or equal to
<	less than
≤	less than or equal to
---	boundary of clear floor space or maneuvering clearance
—○—	centerline
---	a permitted element or its extension
→	direction of travel or approach
█	a wall, floor, ceiling or other element cut in section or plan
█	a highlighted element in elevation or plan
▨	location zone of element, control or feature

Figure 104
Graphic Convention for Figures

BID SET	03/24/2021
Revisions:	Date:

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 ARCHITECT
 RICHARD JOSEPH/OKEN
 A-6125
 STATE OF NEBRASKA
 24 MAR 2021

Office of Construction and Facilities Management
 VA U.S. Department of Veterans Affairs

Drawing Title: ACCESSIBILITY CLEARANCES
 Approved:

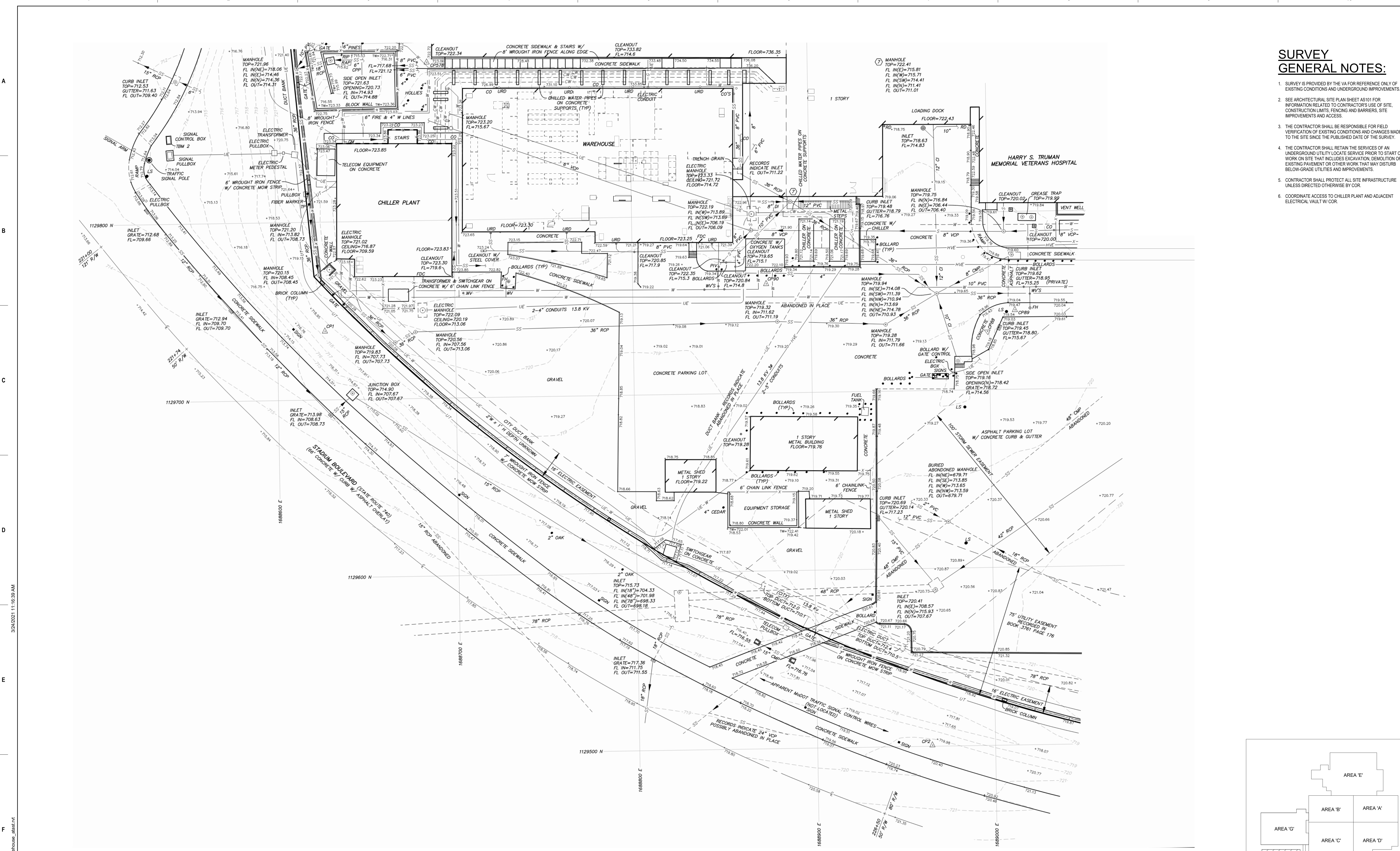
Phase: BID SET
 FULLY SPRINKLERED

Project Title: RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS
 Location: HARRY S. TRUMAN MEM. VETERANS HOSPITAL
 800 HOSPITAL DR., COLUMBIA MO 65201

Project Number: 589A4-20-158
 Building Number: 14
 Drawing Number: G-004
 Dwg. # 4 of 94

SURVEY GENERAL NOTES:

1. SURVEY IS PROVIDED BY THE VA FOR REFERENCE ONLY OF EXISTING CONDITIONS AND UNDERGROUND IMPROVEMENTS.
2. SEE ARCHITECTURAL SITE PLAN SHEET AS101 FOR INFORMATION RELATED TO CONTRACTOR'S USE OF SITE, CONSTRUCTION LIMITS, FENCING AND BARRIERS, SITE IMPROVEMENTS AND ACCESS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND CHANGES MADE TO THE SITE SINCE THE PUBLISHED DATE OF THE SURVEY.
4. THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN UNDERGROUND UTILITY LOCATE SERVICE PRIOR TO START OF WORK ON SITE THAT INCLUDES EXCAVATION, DEMOLITION OF EXISTING PAVEMENT OR OTHER WORK THAT MAY DISTURB BELOW-GRADE UTILITIES AND IMPROVEMENTS.
5. CONTRACTOR SHALL PROTECT ALL SITE INFRASTRUCTURE UNLESS DIRECTED OTHERWISE BY COR.
6. COORDINATE ACCESS TO CHILLER PLANT AND ADJACENT ELECTRICAL VAULT W/ COR.



1 EXISTING SURVEY
1" = 20'-0"

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
EXISTING SITE SURVEY

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDemic PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

Checked
AHT

Drawn
TJF

Project Number
589A4-20-158

Building Number
14

Drawing Number
V-100

Dwg. # 5 of 94

BUILDING AND LIFE SAFETY CODE ANALYSIS SUMMARY:

THE FOLLOWING IS A SUMMARY OF THE BASIS OF DESIGN NARRATIVE THAT IS INTENDED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODES AND STANDARDS. MORE DETAILED CODE ANALYSIS INFORMATION IS PROVIDED ON SUBSEQUENT DRAWING SHEETS AND WITHIN THE FIRE PROTECTION AND LIFE SAFETY SECTION OF THE DESIGN NARRATIVE.

APPLICABLE CODES:
THE FOLLOWING PRIMARY CODES AND STANDARDS ARE USED AS THE BASIS FOR THE DESIGN

- VA FIRE PROTECTION DESIGN MANUAL (VAFPM, 7TH EDITION DECEMBER 2015)
- NATIONAL FIRE PROTECTION ASSOCIATION FIRE CODE (NFPA 1, 2018 EDITION)
- NATIONAL FIRE PROTECTION ASSOCIATION STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (NFPA 13, 2019 EDITION)
- NATIONAL FIRE PROTECTION ASSOCIATION NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72, 2019 EDITION)
- NATIONAL FIRE PROTECTION ASSOCIATION LIFE SAFETY CODE (NFPA 101, 2018 EDITION)
- INTERNATIONAL BUILDING CODE (IBC, 2018 EDITION) *NOTE: AS ENFORCED BY VAFPM §1.3.

BUILDING RENOVATION & RECONSTRUCTION

THE RENOVATION OF THE EXISTING WAREHOUSE BUILDING CONSISTS OF THE MODIFICATION OF MORE THAN 50% OF THE AREA OF THE BUILDING AND THEREFORE IS CLASSIFIED AS A RECONSTRUCTION IN ACCORDANCE WITH NFPA 101 §43.5.2.3. THE RECONSTRUCTION OF THE WAREHOUSE IS SUBJECT TO THE REQUIREMENTS OF NFPA 101 §43.6 AND GENERALLY MUST COMPLY WITH BUILDING REQUIREMENTS RELATED TO NEW CONSTRUCTION, EXCEPT WHERE NOTED.

SITE FIRE PROTECTION DESIGN

NONE OF THE ASPECTS OF THE SITE FIRE DEPARTMENT / EMERGENCY VEHICLE ACCESS ARE BEING MODIFIED AS PART OF THIS RENOVATION SCOPE OF WORK AND ARE TO REMAIN AS IS.

REQUIRED FIRE FLOW FOR THE FACILITY IS PROVIDED IN ACCORDANCE WITH NFPA 1 BASED ON THE CONSTRUCTION TYPE AND FIRE FLOW CALCULATION AREAS. BASED ON TYPE II (000) CONSTRUCTION, A FIRE AREA OF APPROXIMATELY 16,600 FT² AND A 75% REDUCTION DUE TO THE PRESENCE OF AUTOMATIC SPRINKLERS, NFPA 1 TABLE 18.4.5.2.1 REQUIRES A FIRE FLOW OF 1000 GPM AT 20 PSI FOR 2 HOURS (NFPA 1 §18.4.5.3.2). PRELIMINARY HYDRANT FLOW TEST DATA PROVIDED BY COLUMBIA WATER AND LIGHT HAS BEEN PROVIDED NEAR THE PROJECT SITE AND INDICATES THAT THE AVAILABLE FIRE FLOW WILL BE IN EXCESS OF 5,000 GPM AT 20 PSI AND THEREFORE THE EXISTING WATER SUPPLY IS CAPABLE OF MEETING THE REQUIRE FIRE FLOW DEMAND.

SINCE THE FIRE FLOW REMAINS UNCHANGED AND THE FOOTPRINT OF THE EXISTING BUILDING REMAINS UNCHANGED AS PART OF THIS SCOPE OF WORK, NO ADDITIONAL HYDRANTS ARE REQUIRED PER NFPA 1 AND THE VAFPM.

OCCUPANCY CLASSIFICATION

OCCUPANCY CLASSIFICATION IS DETERMINED IN ACCORDANCE WITH NFPA 101 AS REQUIRED BY THE VAFPM. THE ENTIRE WAREHOUSE IS CLASSIFIED AS AN ORDINARY HAZARD STORAGE OCCUPANCY IN ACCORDANCE WITH NFPA 101 CHAPTER 42.

OCCUPANCY SEPARATIONS

THE ENTIRE BUILDING IS CLASSIFIED AS A SINGLE OCCUPANCY CONSISTING OF ORDINARY HAZARD STORAGE, AND THEREFORE NO OCCUPANCY SEPARATIONS ARE PROVIDED.

BUILDING SEPARATION

IN ACCORDANCE WITH §2.2.A OF THE VAFPM, THERE ARE NO REQUIREMENTS FOR SEPARATION OR OPENINGS BETWEEN VA BUILDINGS WITH ALL BUILDINGS ARE FULLY SPRINKLER PROTECTED. AN EXISTING CHILLER PLANT IS LOCATED TO THE WEST AND A HOSPITAL BUILDING IS LOCATED TO THE NORTH; BOTH OF WHICH ARE PHYSICALLY SEPARATED AND SPRINKLERED THROUGHOUT. THE LARGER HOSPITAL BUILDING (BUILDING 1) LOCATED TO THE NORTH AND EAST IS PHYSICALLY CONNECTED TO THE WAREHOUSE BY A CONNECTING CORRIDOR THAT HAS AN EXISTING 2-HOUR BUILDING SEPARATION ALONG THE NORTH SIDE OF THE CONNECTING CORRIDOR TO SEPARATE THE WAREHOUSE FROM THE HOSPITAL BUILDING (BUILDING 1).

BUILDING CONSTRUCTION TYPE

THE EXISTING WAREHOUSE BUILDING IS CONSTRUCTED OF EXTERIOR BLOCK WALLS WITH UNPROTECTED STEEL SUPPORTS AND ROOF ASSEMBLIES AND NONCOMBUSTIBLE BUILDING ELEMENTS. THEREFORE THE EXISTING BUILDING APPEARS TO MATCH TYPE II (000) CONSTRUCTION PER NFPA 220 AND TYPE II-B PER THE IBC. THE WAREHOUSE RENOVATIONS INCLUDED IN THIS SCOPE OF WORK WILL BE DONE IN A MANNER WHICH MAINTAINS THE EXISTING CONSTRUCTION TYPE AND THEREFORE, NO MODIFICATIONS TO THE EXISTING CONSTRUCTION TYPE WILL BE INCORPORATED AS PART OF THIS SCOPE OF WORK.

ALLOWABLE HEIGHT & AREA ANALYSIS (NFPA 101 §42.1.6 & IBC TABLES 504.3, 504.4 & 506.2)

NFPA 101 DOES NOT INCLUDE CONSTRUCTION TYPE REQUIREMENTS FOR STORAGE OCCUPANCIES AND THEREFORE §2.1-B OF THE VAFPM REQUIRES THAT THE HEIGHT AND AREA LIMITATIONS BE IN ACCORDANCE WITH THE IBC. THE FOLLOWING SUMMARIZES THE ACTUAL AND ALLOWABLE HEIGHT, STORY, AND AREA FOR THE WAREHOUSE BUILDING IN ACCORDANCE WITH THE IBC CHAPTER 5 FOR A FULLY SPRINKLERED BUILDING OF TYPE II-B CONSTRUCTION THAT CONTAINS A GROUP S-2 OCCUPANCY.

- HEIGHT (IBC TABLE 504.3)**
- ALLOWABLE: 75 FT
 - ACTUAL: 31 FT
- # OF STORIES (IBC TABLE 504.4)**
- ALLOWABLE: 4
 - ACTUAL: 2
- AREA (IBC TABLE 506.2)**
- ALLOWABLE PER STORY: 78,000 FT²
 - ACTUAL PER STORY:
 - FIRST: 11,742 FT²
 - UPPER: 3,822 FT²

MEZZANINES AND VERTICAL OPENINGS

THE AREA OF THE UPPER FLOOR IS GREATER THAN 1/3 OF THE TOTAL AREA OF THE ROOMS ON THE GROUND FLOOR WHICH IT IS OPEN TO AND THEREFORE CANNOT BE CONSIDERED A MEZZANINE PER NFPA 101 §8.6.10.2.1. THEREFORE, THE UPPER FLOOR IS CONSIDERED A BUILDING STORY AND VERTICAL OPENINGS ARE PROTECTED ACCORDINGLY. IT IS IMPORTANT TO NOTE THAT THESE PLANS REFER TO THIS UPPER FLOOR AS A 'MEZZANINE' AT THE REQUEST OF THE CLIENT; HOWEVER, THIS AREA HAS BEEN DESIGNED AND ANALYZED AS A BUILDING STORY PER THE REQUIREMENTS OF NFPA 101. AS PERMITTED BY NFPA 101 §42.3.1, CONVENIENCE OPENINGS IN ACCORDANCE WITH §8.6.9.1 ARE PERMITTED WITHIN STORAGE OCCUPANCIES. AN OPEN CONVENIENCE STAIR IS PROVIDED TO CONNECT THE UPPER FLOOR WITH THE GROUND FLOOR. THE VERTICAL OPENING IS CONFIGURED AS A CONVENIENCE OPENING IN ACCORDANCE WITH NFPA 101 § 8.6.9.1. THIS PERMITS UNPROTECTED VERTICAL OPENINGS BETWEEN THE TWO STORIES, AND THEREFORE NO SHAFTS ARE REQUIRED AS LONG AS THEY ARE WITHIN THE CONVENIENCE OPENING.

HAZARDOUS AREA SEPARATION

ALL AREAS WITHIN THE WAREHOUSE ARE THE SAME RELATIVE LEVEL OF HAZARD AND NO HAZARDOUS MATERIALS ARE ANTICIPATED TO BE STORED WITHIN THE BUILDING IN QUANTITIES THAT WOULD BE DEEMED HAZARDOUS; THEREFORE, NO HAZARDOUS AREA SEPARATIONS ARE REQUIRED IN ACCORDANCE WITH NFPA 101 §8.7 AND §42.3.2.

EGRESS DESIGN

ALL EGRESS PROVISIONS ARE PROVIDED IN ACCORDANCE WITH NFPA 101 AND THE VAFPM.

- OCCUPANT LOAD CALCULATIONS ARE BASED ON THE FACTORS IN NFPA 101 TABLE 7.3.1.2
- NUMBER OF EXITS AND CONFIGURATION IS PROVIDED IN ACCORDANCE WITH NFPA 101 SECTIONS 7.4 AND 7.5. AS PERMITTED BY NFPA 101 §
- EXIT ACCESS AND TRAVEL DISTANCE REQUIREMENTS (TRAVEL DISTANCE LIMITATIONS, COMMON PATH LIMITATIONS, AND DEAD-END CORRIDORS) ARE IN ACCORDANCE WITH NFPA 101 §42.2.5 AND §42.2.6
- EXITS MEET THE REQUIREMENTS OF NFPA 101 SECTION 7.1.3.2 AND EGRESS COMPONENTS CONFORM TO THE TYPES AND REQUIREMENTS IN NFPA 101 SECTION 7.2
- EGRESS WIDTH AND CAPACITY IS PROVIDED BASED ON OCCUPANT LOAD, CALCULATED IN ACCORDANCE WITH NFPA 101 SECTION 7.3.3.
- EXIT DISCHARGE IS PROVIDED IN ACCORDANCE WITH NFPA 101 SECTION 7.7.
- ROOF ACCESS IS NOT REQUIRED FOR THE BUILDING ADDITION AS IT IS LESS THAN FOUR STORIES ABOVE GRADE PLANE.

FIRE SUPPRESSION SYSTEMS

THE EXISTING WAREHOUSE IS PROTECTED BY AN AUTOMATIC WET-PIPE SPRINKLER PROTECTION IN ACCORDANCE WITH NFPA 13 AS REQUIRED BY THE VAFPM. THE EXISTING 4" SPRINKLER STANDPIPE IS LOCATED IN THE SOUTHWEST CORNER OF THE BUILDING AND INCLUDES A BACKFLOW PREVENTER, A FLOW SWITCH, AND FIRE DEPARTMENT CONNECTION. THE EXISTING RISER ASSEMBLY AND SPRINKLER PIPING IS TO BE REUSED TO THE GREATEST EXTENT POSSIBLE AS PART OF THIS SCOPE OF WORK. MODIFICATIONS TO EXISTING PIPING WILL BE REQUIRED TO PROVIDE SPRINKLER PROTECTION ABOVE AND BELOW THE UPPER FLOOR LEVEL. IN ADDITION TO RECONFIGURATION OF THE EXISTING SPRINKLER HEADS TO ACCOMMODATE THE MODIFIED STORAGE CONFIGURATION WITHIN THE BUILDING, VA HAS PROVIDED AN INVENTORY OF ANTICIPATED STORAGE MATERIALS AND STORAGE CONFIGURATIONS THROUGHOUT THE BUILDING TO ENSURE THAT SPRINKLER PROTECTION IS APPROPRIATELY DESIGNED IN ACCORDANCE WITH NFPA 13. USER WILL UTILIZE OPEN RACK, PALLETIZED, AND BIN BOX STORAGE CONFIGURATIONS OF CLASS IV COMMODITIES WITH MAXIMUM STORAGE HEIGHTS OF 12'; MORE DETAILS OF STORAGE CONFIGURATIONS ARE INDICATED ON FIRE SUPPRESSION PLAN. HYDRANT FLOW TEST DATA HAS BEEN PROVIDED BY THE CITY OF COLUMBIA MISSOURI UTILITIES DEPARTMENT FOR VERIFICATION THAT EXISTING WATER SUPPLY IS ADEQUATE TO SUPPORT THE PROPOSED SYSTEM MODIFICATIONS.

THE EXISTING FIRE SUPPRESSION SYSTEM IS MONITORED BY THE BUILDING 1 FIRE ALARM SYSTEM TO TRANSMIT FIRE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO THE RESPONDING FIRE DEPARTMENT VIA THE HEAD-END FIRE ALARM RECEIVING EQUIPMENT LOCATED IN BUILDING 1. IT IS NOT ANTICIPATED THAT ANY MODIFICATIONS WILL BE REQUIRED FOR THE EXISTING FIRE ALARM MONITORING.

FIRE EXTINGUISHERS ARE PROVIDED THROUGHOUT THE WAREHOUSE IN ACCORDANCE WITH NFPA 10. EXTINGUISHERS HAVE BEEN SPACED BASED ON 10-LB MULTIPURPOSE DRY CHEMICAL TYPE EXTINGUISHERS WITH A MAXIMUM TRAVEL DISTANCE FROM ANY POINT ON THE FLOOR TO AN EXTINGUISHER OF 75'.

FIRE ALARM SYSTEM

THE EXISTING WAREHOUSE BUILDING 14 ADDRESSABLE FIRE ALARM SYSTEM WILL BE MAINTAINED TO THE GREATEST EXTENT POSSIBLE AND MODIFIED AS REQUIRED TO SUPPORT THE RENOVATIONS INCLUDED IN THIS SCOPE. BASED ON SITE INVESTIGATIONS AND AS-BUILT DOCUMENTATION, NO FIRE ALARM CONTROL UNITS ARE PRESENT WITHIN THE WAREHOUSE AND THAT THE SLC AND NAC CIRCUITS THAT SUPPORT BUILDING 14 ORIGINATE WITHIN THE HOSPITAL. AN EXISTING FACP IS LOCATED IN THE CHILLER PLANT IF THE EXISTING CIRCUITS FROM THE BUILDING 1 PANELS ARE NOT CAPABLE OF SUPPORTING THE ADDED/RELOCATED DEVICES WITHIN THE WAREHOUSE. ALL EXISTING DEVICES WITHIN THE BUILDING ARE TO BE REPLACED WITH NEW DEVICES, AND ADDITIONAL DEVICES ARE ADDED AS NECESSARY TO SUPPORT THE BUILDING RECONFIGURATION AS INDICATED ON THE FIRE ALARM SYSTEM SHEETS. NEW DEVICES ARE TO BE TIED INTO THE THE EXISTING NAC AND SLC CIRCUITS THAT CURRENTLY SUPPORT BUILDING 14.

Applicable Codes & Standards			
Code/Standard	Code/Standard Authority	Code/Standard Name	Code/Standard Year
INTERNATIONAL CODE COUNCIL			
IBC	INTERNATIONAL CODE COUNCIL	INTERNATIONAL BUILDING CODE	2018
NATIONAL FIRE PROTECTION ASSOCIATION			
NFPA 1	NATIONAL FIRE PROTECTION ASSOCIATION	FIRE CODE	2018
NFPA 10	NATIONAL FIRE PROTECTION ASSOCIATION	STANDARD FOR PORTABLE FIRE EXTINGUISHERS	2018
NFPA 13	NATIONAL FIRE PROTECTION ASSOCIATION	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS	2019
NFPA 24	NATIONAL FIRE PROTECTION ASSOCIATION	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES	2019
NFPA 70	NATIONAL FIRE PROTECTION ASSOCIATION	NATIONAL ELECTRICAL CODE	2020
NFPA 72	NATIONAL FIRE PROTECTION ASSOCIATION	NATIONAL FIRE ALARM AND SIGNALING CODE	2019
NFPA 80	NATIONAL FIRE PROTECTION ASSOCIATION	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2019
NFPA 90A	NATIONAL FIRE PROTECTION ASSOCIATION	STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATION SYSTEMS	2018
NFPA 101	NATIONAL FIRE PROTECTION ASSOCIATION	LIFE SAFETY CODE	2018
NFPA 110	NATIONAL FIRE PROTECTION ASSOCIATION	STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS	2019
NFPA 220	NATIONAL FIRE PROTECTION ASSOCIATION	STANDARD ON TYPES OF BUILDING CONSTRUCTION	2018
U.S. DEPARTMENT OF VETERANS AFFAIRS			
VAFPM	U.S. DEPARTMENT OF VETERANS AFFAIRS	FIRE PROTECTION DESIGN MANUAL	7TH EDITION, DECEMBER 2015
VAPSDM	U.S. DEPARTMENT OF VETERANS AFFAIRS	PHYSICAL SECURITY DESIGN MANUAL FOR VA MISSION CRITICAL FACILITIES	JANUARY 2015

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS: NFPA 220 TYPE II (000) & IBC TYPE II-B		
BUILDING ELEMENT		RATING (HOURS) (NOTE 4)
STRUCTURAL FRAME	SUPPORTING ONE FLOOR OR ROOF ONLY	0
	SUPPORTING MORE THAN ONE FLOOR, COLUMN OR OTHER BEARING WALLS	0
EXTERIOR BEARING	EXTERIOR; SEE NOTE 1	0
INTERIOR BEARING WALL, COLUMNS, BEAMS, GRIDDERS, TRUSSES, AND ARCHES	INTERIOR - SUPPORTING MORE THAN ONE FLOOR, COLUMN, OR OTHER BEARING WALL	0
	INTERIOR - SUPPORTING ONE FLOOR OR ROOF ONLY	0
FLOOR/CEILING ASSEMBLIES		0
ROOF/CEILING ASSEMBLIES		0
INTERIOR NONBEARING WALLS		0
EXTERIOR NONBEARING WALLS; SEE NOTE 1		0

- NOTES:
- FIRE-RESISTANCE RATINGS ARE BASED OFF OF IBC TABLES 601 AND 602. SEE LIFE SAFETY PLANS FOR LOCATIONS OF RATED PARTITIONS FOR ACCOMMODATION OF LIFE SAFETY CODE REQUIREMENTS.
 - ACCORDING TO EXISTING DESIGN DRAWINGS DATED SEPTEMBER 22, 2015, BLDG 28 IS OF TYPE 1-A CONSTRUCTION. THEREFORE, THE RATINGS IN THIS TABLE REFLECT THE FIRE RESISTANCE RATING OF TYPE 1(332) CONSTRUCTION FROM NFPA 220.

NOTE: THE FOLLOWING LEGEND IS PROVIDED FOR REFERENCE ONLY; NO NEW FIRE RESISTANCE RATED BARRIERS ARE PROVIDED AS PART OF THIS SCOPE OF WORK.

BUILDING & LIFE SAFETY REQUIREMENTS						
LEGEND						
NEW PARTITION KEY	WALL RATING	DESCRIPTION	NFPA 101-2018	RATING	OPENINGS	DAMPERS
					TYPE	RFRNC.
	2 HR	BUILDING SEPARATION: FIRE BARRIER	8.2.1.3	90 MN	8.3.3.2.2 TBL	FIRE 8.3.4.8 8.2.1
	2 HR	OCCUPANCY/AREA SEPARATION FIRE BARRIER	8.1.14.4.1 19.1.3.5.1	90 MN	8.3.3.2.2 TBL	FIRE 8.3.4.8 8.2.1
	2 HR	HORIZONTAL EXIT (A REFUGE AREA) FIRE BARRIER	7.2.4.1.3(1) 19.1.3.8 19.2.2.5 17.1.3.2.1	90 MN	7.2.4.1.1 7.2.4.3.7 8.3.4 19.2.2.5, 1.4	FIRE 8.3.4.8 9.2.1 7.2.4.3.5
	2 HR	VERT. OPNG. (EXIT ENCLRS/SHAFT) FIRE BARRIER (2 HR + 4 OR MORE STORIES) (1 HR + LESS THAN 4 STORIES) (1 HR + EXIST. ENCL. IN EXIST. BLDG)	19.3.1.1-8 8.6 8.6	90 MN 60 MN	8.3.3.2.2 TBL 19.2.2.2 7.1.3.2.2(9)	NOT ALLOWED UNLESS SERVING STAIR ONLY
	2 HR	EXIT PASSAGEWAY (HORIZ) FIRE BARRIER	7.3.6 19.2.2.7	90 MN 60 MN	8.3.3.2.2 TBL 19.2.2.2	NOT ALLOWED
	1 HR	VERT. OPNG. (SHAFT) FIRE BARRIER	19.3.1 8.6	60 MN	8.3.3.2.2 TBL	N/A 8.6.4.5
	1 HR	HAZ/INCIDENTAL USE FIRE BARRIER	8.7.1 19.3.2.1	45 MN	8.3.3.2.2 TBL 19.3.2.1.3	N/A N/A
	NR	HAZ/INCIDENTAL USE SMOKE PARTITIONS (SPRINKLERED)	19.3.2.1.2	NR SELF OR AUTO CLOSING	8.7.1.3 8.4.3 19.3.2.1.3	VARIES 8.4.4
	1 HR	SUBDIVIDING SPACES SMOKE BARRIER (S-2 OCCUPANCY)	8.5 19.3.7.3	20 MN	8.3.3.2.2 TBL 8.5.4 19.3.7.8	SMOKE 8.5.3.3 19.3.7.3(2)
	NR	SUITE SEPARATION SMOKE PARTITION	8.4.2 19.2.5.7.1.4	"NR SELF OR AUTO CLOSING"	19.3.6.3.2 8.4.3	VARIES 8.4.4 8.4.6.2
	NR	EXIT ACCESS CORRIDORS (S-2) SMOKE PARTITIONS (SPRINKLERED)	8.4.2 19.3.8.2	NR	19.3.6.3 8.4.3	VARIES 8.4.4.1 8.4.6.2 19.3.8.4.2
	NR	EXIT ACCESS CORRIDORS (S & AHJ) NON-RATED PARTITIONS	21.3.6 35.3.6	NR	N/A	NONE N/A

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BID SET	03/24/2021
Revisions:	Date:

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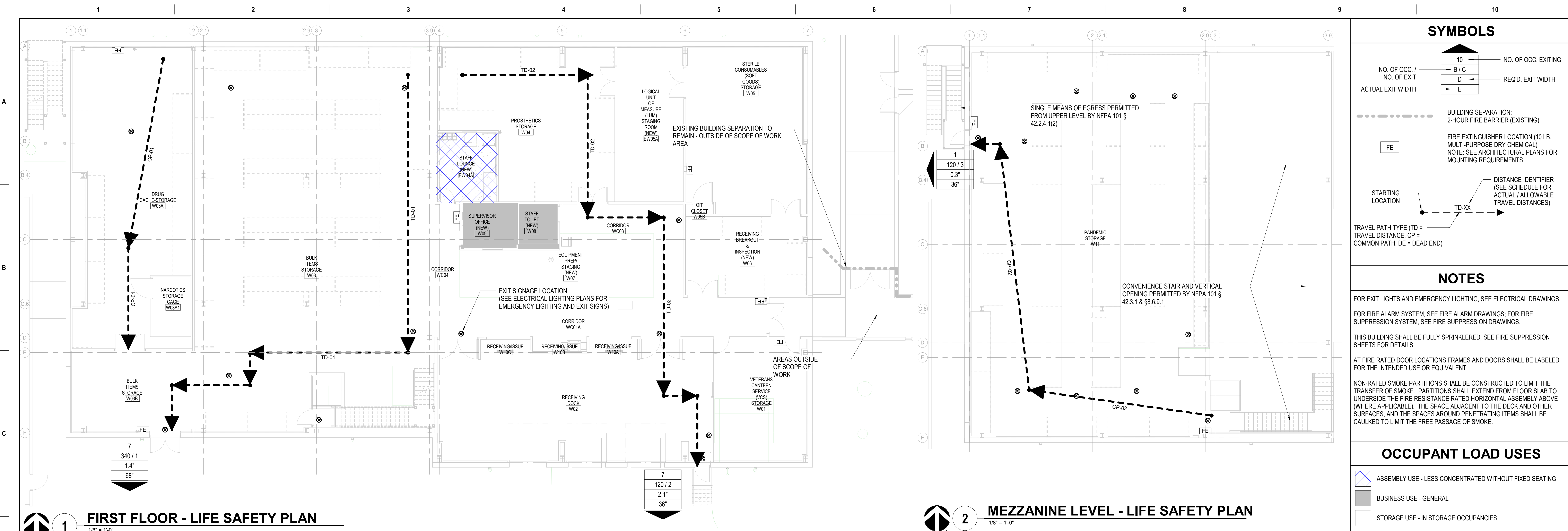
Office of Construction and Facilities Management
 U.S. Department of Veterans Affairs

Drawing Title
BUILDING AND LIFE SAFETY CODE ANALYSIS
 Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title		Project Number
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS		589A4-20-158
Location		Building Number
HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201		14
Issue Date	Checked	Drawn
03/24/2021	TGD	APS
Drawing Number		Dwg. # 5 of 94
		LS001



SYMBOLS

NO. OF OCC. / NO. OF EXIT	10	NO. OF OCC. EXITING
ACTUAL EXIT WIDTH	B / C	REQ'D. EXIT WIDTH
	D	
	E	

--- BUILDING SEPARATION: 2-HOUR FIRE BARRIER (EXISTING)

FE FIRE EXTINGUISHER LOCATION (10 LB. MULTI-PURPOSE DRY CHEMICAL) NOTE: SEE ARCHITECTURAL PLANS FOR MOUNTING REQUIREMENTS

STARTING LOCATION

TD-XX DISTANCE IDENTIFIER FOR ACTUAL / ALLOWABLE TRAVEL DISTANCES

TRAVEL PATH TYPE (TD = TRAVEL DISTANCE, CP = COMMON PATH, DE = DEAD END)

NOTES

FOR EXIT LIGHTS AND EMERGENCY LIGHTING, SEE ELECTRICAL DRAWINGS.

FOR FIRE ALARM SYSTEM, SEE FIRE ALARM DRAWINGS; FOR FIRE SUPPRESSION SYSTEM, SEE FIRE SUPPRESSION DRAWINGS.

THIS BUILDING SHALL BE FULLY SPRINKLERED, SEE FIRE SUPPRESSION SHEETS FOR DETAILS.

AT FIRE RATED DOOR LOCATIONS FRAMES AND DOORS SHALL BE LABELED FOR THE INTENDED USE OR EQUIVALENT.

NON-RATED SMOKE PARTITIONS SHALL BE CONSTRUCTED TO LIMIT THE TRANSFER OF SMOKE. PARTITIONS SHALL EXTEND FROM FLOOR SLAB TO UNDERSIDE THE FIRE RESISTANCE RATED HORIZONTAL ASSEMBLY ABOVE (WHERE APPLICABLE). THE SPACE ADJACENT TO THE DECK AND OTHER SURFACES, AND THE SPACES AROUND PENETRATING ITEMS SHALL BE CAULKED TO LIMIT THE FREE PASSAGE OF SMOKE.

OCCUPANT LOAD USES

- ASSEMBLY USE - LESS CONCENTRATED WITHOUT FIXED SEATING
- BUSINESS USE - GENERAL
- STORAGE USE - IN STORAGE OCCUPANCIES

1 FIRST FLOOR - LIFE SAFETY PLAN
1/8" = 1'-0"

2 MEZZANINE LEVEL - LIFE SAFETY PLAN
1/8" = 1'-0"

OCCUPANT LOAD CALCULATION - FIRST FLOOR

Occupant Load Factor Use Category	Area	Occupant Load Factor [SF/Person]	Occupant Load
WH 1ST FLR			
Assembly Use - Less Concentrated Without Fixed Seating	169 SF	15	11
Business Use - General	165 SF	150	1
Storage Use - In Storage Occupancies*	11,409 SF	Max # of Occupants	2
	11,742 SF		14
WH UPPER LEVEL FLR			
Storage Use - In Storage Occupancies*	3,822 SF	Max # of Occupants	1
	3,822 SF		1
	15,565 SF		15

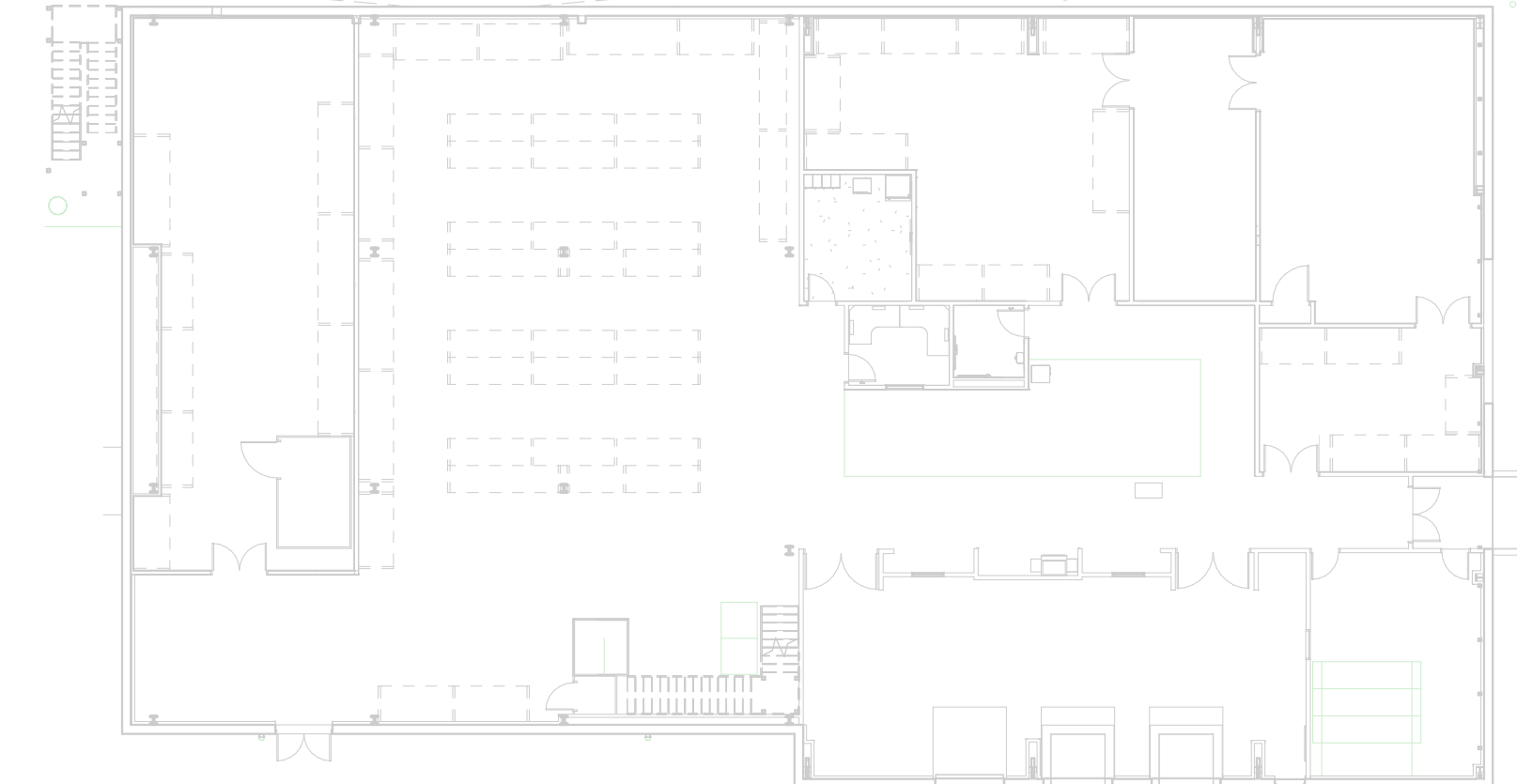
*NOTE: PER FOOTNOTE TO NFPA 101 TABLE 7.3.1.2, OCCUPANT LOAD FOR STORAGE OCCUPANCIES IS TO BE THE MAXIMUM PROBABLE NUMBER OF OCCUPANTS PRESENT AT ANY GIVEN TIME. DIRECTION WAS PROVIDED VIA EMAIL ON 01/29/2021 FROM VA PERSONNEL (D. SCHMIDT) THAT MAXIMUM PROBABLE NUMBER OF OCCUPANTS WITHIN BUILDING 14 AT ANY GIVEN TIME IS 15 PERSONS.

MEANS OF EGRESS ARRANGEMENT - FIRST FLOOR

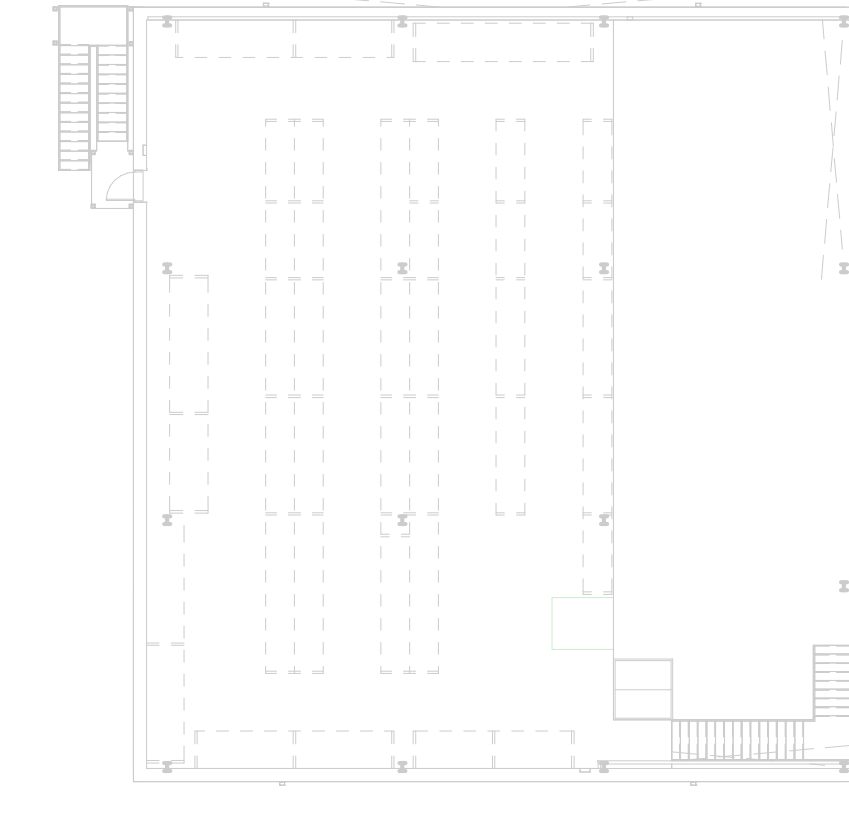
Egress Path Name	Occupancy Classification	Egress Path Length	Egress Path Maximum Permitted
CP-01	Ordinary Hazard Storage	59' - 10"	100' - 0"
CP-02	Ordinary Hazard Storage	93' - 11"	100' - 0"
TD-01	Ordinary Hazard Storage	120' - 10"	400' - 0"
TD-02	Ordinary Hazard Storage	128' - 11"	400' - 0"

EXIT CAPACITY COMPARISON - Level 1

ID	Type	Most Restrictive Egress Component			Expected Occupant Load
		Clear Width	Capacity Factor (in/Person)	Occupant Capacity	
1	Door	5' - 8"	0.2	340	7
2	Stair	3' - 0"	0.3	120	7
3	Stair	3' - 0"	0.3	120	1
				580	15



3 FIRST FLOOR - OCCUPANCY CLASSIFICATION PLAN
1" = 20'-0"

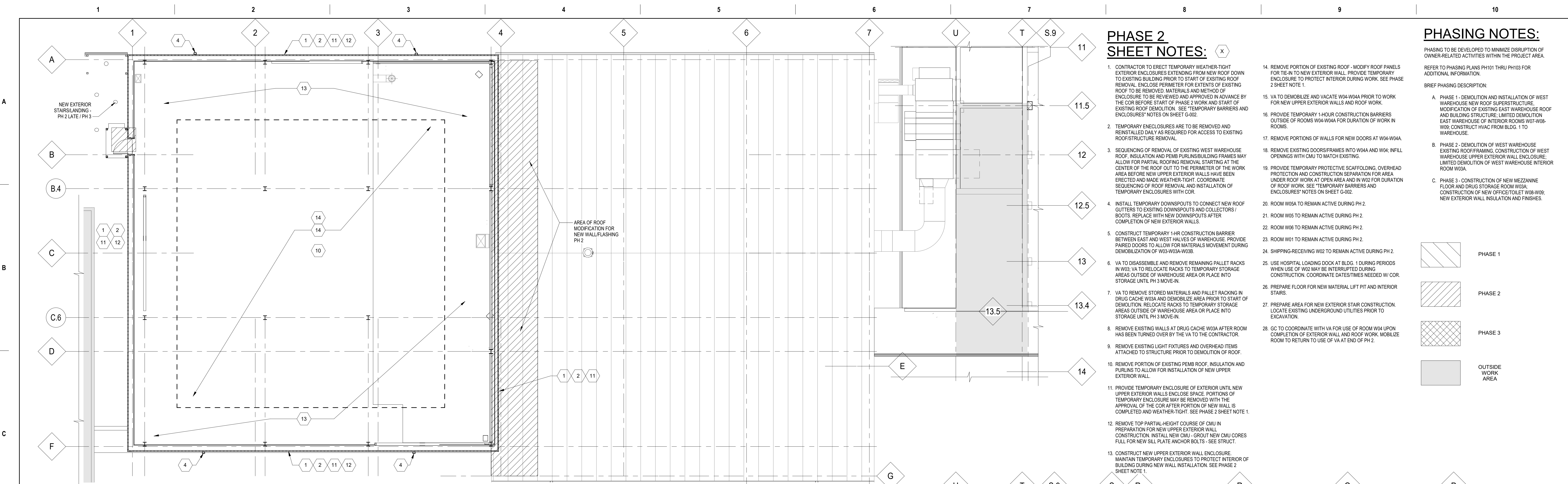


4 MEZZANINE LEVEL - OCCUPANCY CLASSIFICATION PLAN
1" = 20'-0"

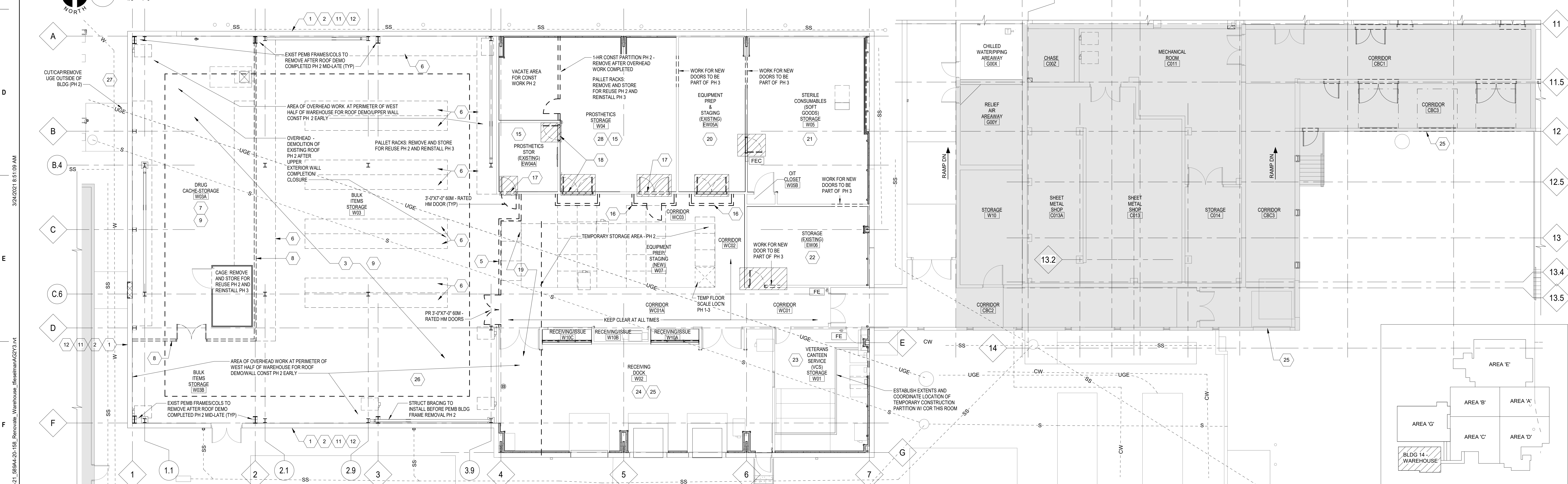
OCCUPANCY CLASSIFICATION

□ ORDINARY HAZARD STORAGE (GROUP S-2)

BID SET Revisions:	03/24/2021	ARCHITECT/ENGINEER OF RECORD Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elkhorst, Nebraska 68022 Phone: 402.291.6941 Fax: 402.291.9193	IMEG IMEG Corp. 15 Summit Drive, Suite 104 St. Louis, MO 63143 Phone: (314) 954-2534	STAMP Colorado Licensed Alexey G. Schmitt PROFESSIONAL ENGINEER	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title LIFE SAFETY PLAN	Phase BID SET	Project Title RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS	Project Number 589A4-20-158
	Date:					Approved:	Fully Sprinklered FULLY SPRINKLERED	Location HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201	Building Number 14
Issue Date 03/24/2021	Checked TGD	Drawn APS	Drawing Number LS101	Dwg. # 6 of 94					



1 MEZZANINE PLAN - PHASE 2
1/8" = 1'-0"



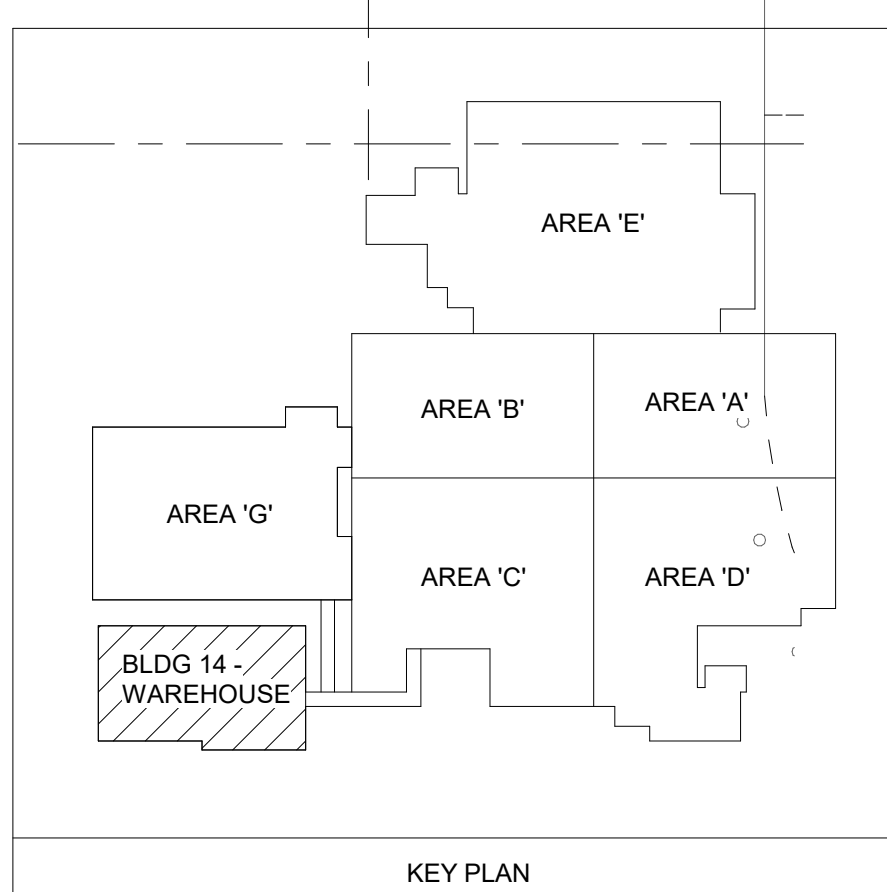
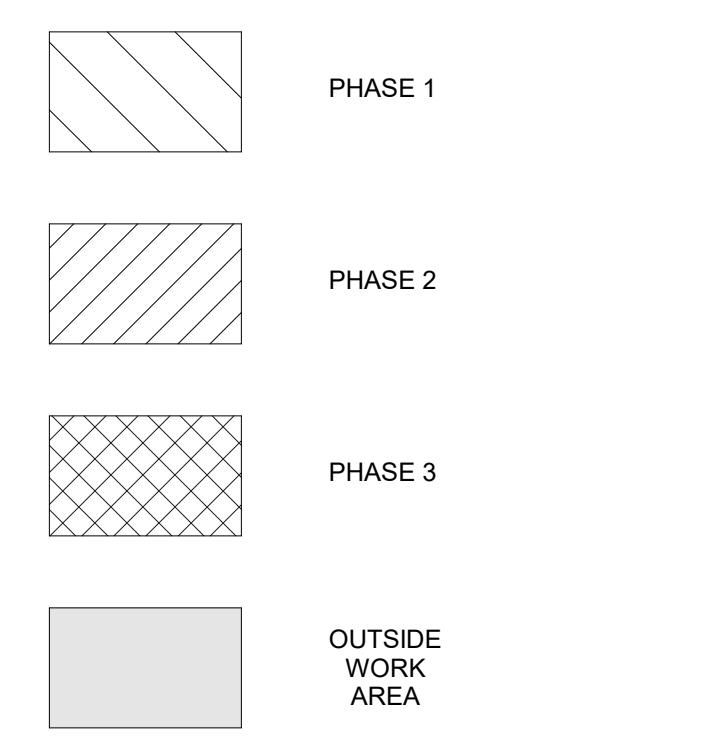
2 FLOOR PLAN - PHASE 2
1/8" = 1'-0"

PHASE 2 SHEET NOTES:

- CONTRACTOR TO ERECT TEMPORARY WEATHER-TIGHT EXTERIOR ENCLOSURES EXTENDING FROM NEW ROOF DOWN TO EXISTING BUILDING PRIOR TO START OF EXISTING ROOF REMOVAL. ENCLOSE PERIMETER FOR EXTENTS OF EXISTING ROOF TO BE REMOVED. MATERIALS AND METHOD OF ENCLOSURE TO BE REVIEWED AND APPROVED IN ADVANCE BY THE COR BEFORE START OF PHASE 2 WORK AND START OF EXISTING ROOF DEMOLITION. SEE "TEMPORARY BARRIERS AND ENCLOSURES" NOTES ON SHEET G-002.
- TEMPORARY ENCLOSURES ARE TO BE REMOVED AND REINSTALLED DAILY AS REQUIRED FOR ACCESS TO EXISTING ROOF/STRUCTURE REMOVAL.
- SEQUENCING OF REMOVAL OF EXISTING WEST WAREHOUSE ROOF, INSULATION AND PEMB PURLIN/SUBBUILDING FRAMES MAY ALLOW FOR PARTIAL ROOFING REMOVAL STARTING AT THE CENTER OF THE ROOF OUT TO THE PERIMETER OF THE WORK AREA BEFORE NEW UPPER EXTERIOR WALLS HAVE BEEN ERECTED AND MADE WEATHER-TIGHT. COORDINATE SEQUENCING OF ROOF REMOVAL AND INSTALLATION OF TEMPORARY ENCLOSURES WITH COR.
- INSTALL TEMPORARY DOWNSPOUTS TO CONNECT NEW ROOF GUTTERS TO EXISTING DOWNSPOUTS AND COLLECTORS/BOOTS. REPLACE WITH NEW DOWNSPOUTS AFTER COMPLETION OF NEW EXTERIOR WALLS.
- CONSTRUCT TEMPORARY 1-HR CONSTRUCTION BARRIER BETWEEN EAST AND WEST HALVES OF WAREHOUSE. PROVIDE PAIRED DOORS TO ALLOW FOR MATERIALS MOVEMENT DURING DEMOLITION OF W03-W03A-W03B.
- VA TO DISASSEMBLE AND REMOVE REMAINING PALLET RACKS IN W03. VA TO RELOCATE RACKS TO TEMPORARY STORAGE AREAS OUTSIDE OF WAREHOUSE AREA OR PLACE INTO STORAGE UNTIL PH 3 MOVE-IN.
- VA TO REMOVE STORED MATERIALS AND PALLET RACKING IN DRUG CACHE W04A AND DEMOLISH AREA PRIOR TO START OF DEMOLITION. RELOCATE RACKS TO TEMPORARY STORAGE AREAS OUTSIDE OF WAREHOUSE AREA OR PLACE INTO STORAGE UNTIL PH 3 MOVE-IN.
- REMOVE EXISTING WALLS AT DRUG CACHE W03A AFTER ROOM HAS BEEN TURNED OVER BY THE VA TO THE CONTRACTOR.
- REMOVE EXISTING LIGHT FIXTURES AND OVERHEAD ITEMS ATTACHED TO STRUCTURE PRIOR TO DEMOLITION OF ROOF.
- REMOVE PORTION OF EXISTING PEMB ROOF, INSULATION AND PURLINS TO ALLOW FOR INSTALLATION OF NEW UPPER EXTERIOR WALL.
- PROVIDE TEMPORARY ENCLOSURE OF EXTERIOR UNTIL NEW UPPER EXTERIOR WALLS ENCLOSE SPACE. PORTIONS OF TEMPORARY ENCLOSURE MAY BE REMOVED WITH THE APPROVAL OF THE COR AFTER PORTION OF NEW WALL IS COMPLETED AND WEATHER-TIGHT. SEE PHASE 2 SHEET NOTE 1.
- REMOVE TOP PARTIAL-HEIGHT COURSE OF CMU IN PREPARATION FOR NEW UPPER EXTERIOR WALL CONSTRUCTION. INSTALL NEW CMU - GROUT NEW CMU CORES FULL FOR NEW SILL PLATE ANCHOR BOLTS - SEE STRUCT.
- CONSTRUCT NEW UPPER EXTERIOR WALL ENCLOSURE. MAINTAIN TEMPORARY ENCLOSURES TO PROTECT INTERIOR OF BUILDING DURING NEW WALL INSTALLATION. SEE PHASE 2 SHEET NOTE 1.
- REMOVE PORTION OF EXISTING ROOF - MODIFY ROOF PANELS FOR TIE-IN TO NEW EXTERIOR WALL. PROVIDE TEMPORARY ENCLOSURE TO PROTECT INTERIOR DURING WORK. SEE PHASE 2 SHEET NOTE 1.
- VA TO DEMOLISH AND VACATE W04-W04A PRIOR TO WORK FOR NEW UPPER EXTERIOR WALLS AND ROOF WORK.
- PROVIDE TEMPORARY 1-HOUR CONSTRUCTION BARRIERS OUTSIDE OF ROOMS W04-W04A FOR DURATION OF WORK IN ROOMS.
- REMOVE PORTIONS OF WALLS FOR NEW DOORS AT W04-W04A.
- REMOVE EXISTING DOORS/FRAMES INTO W04A AND W04. INFILL OPENINGS WITH CMU TO MATCH EXISTING.
- PROVIDE TEMPORARY PROTECTIVE SCAFFOLDING, OVERHEAD PROTECTION AND CONSTRUCTION SEPARATION FOR AREA UNDER ROOF WORK AT OPEN AREA AND IN W02 FOR DURATION OF ROOF WORK. SEE "TEMPORARY BARRIERS AND ENCLOSURES" NOTES ON SHEET G-002.
- ROOM W05A TO REMAIN ACTIVE DURING PH 2.
- ROOM W05 TO REMAIN ACTIVE DURING PH 2.
- ROOM W06 TO REMAIN ACTIVE DURING PH 2.
- ROOM W01 TO REMAIN ACTIVE DURING PH 2.
- SHIPPING-RECEIVING W02 TO REMAIN ACTIVE DURING PH 2.
- USE OF HOSPITAL DOCK AT BLDG. 1 DURING PHASE 2 CONSTRUCTION. COORDINATE DATES/TIMES NEEDED W/ COR.
- PREPARE FLOOR FOR NEW MATERIAL LIFT PIT AND INTERIOR STAIRS.
- PREPARE AREA FOR NEW EXTERIOR STAIR CONSTRUCTION. LOCATE EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- GO TO COORDINATE WITH VA FOR USE OF ROOM W04 UPON COMPLETION OF EXTERIOR WALL AND ROOF WORK. MOBILIZE ROOM TO RETURN TO USE OF VA AT END OF PH 2.

PHASING NOTES:

PHASING TO BE DEVELOPED TO MINIMIZE DISRUPTION OF OWNER-RELATED ACTIVITIES WITHIN THE PROJECT AREA. REFER TO PHASING PLANS PH101 THRU PH103 FOR ADDITIONAL INFORMATION.
BRIEF PHASING DESCRIPTION:
A. PHASE 1 - DEMOLITION AND INSTALLATION OF WEST WAREHOUSE NEW ROOF SUPERSTRUCTURE. MODIFICATION OF EXISTING EAST WAREHOUSE ROOF AND BUILDING STRUCTURE. LIMITED DEMOLITION EAST WAREHOUSE OF INTERIOR ROOMS W07-W08. W09. CONSTRUCT HVAC FROM BLDG. 1 TO WAREHOUSE.
B. PHASE 2 - DEMOLITION OF WEST WAREHOUSE EXISTING ROOF/FRAMING. CONSTRUCTION OF WEST WAREHOUSE UPPER EXTERIOR WALL ENCLOSURE. LIMITED DEMOLITION OF WEST WAREHOUSE INTERIOR ROOM W03A.
C. PHASE 3 - CONSTRUCTION OF NEW MEZZANINE FLOOR AND DRUG STORAGE ROOM W03A. CONSTRUCTION OF NEW OFFICE/TOILET W08-W09. NEW EXTERIOR WALL INSULATION AND FINISHES.



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a fire protection engineering firm

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ARCHITECT
RICHARD JOSEPH/OPENEN
A-6125
STATE OF MISSOURI
24 MAR 2021

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
PHASING PLAN - PHASE 2

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201

Project Number
589A4-20-158

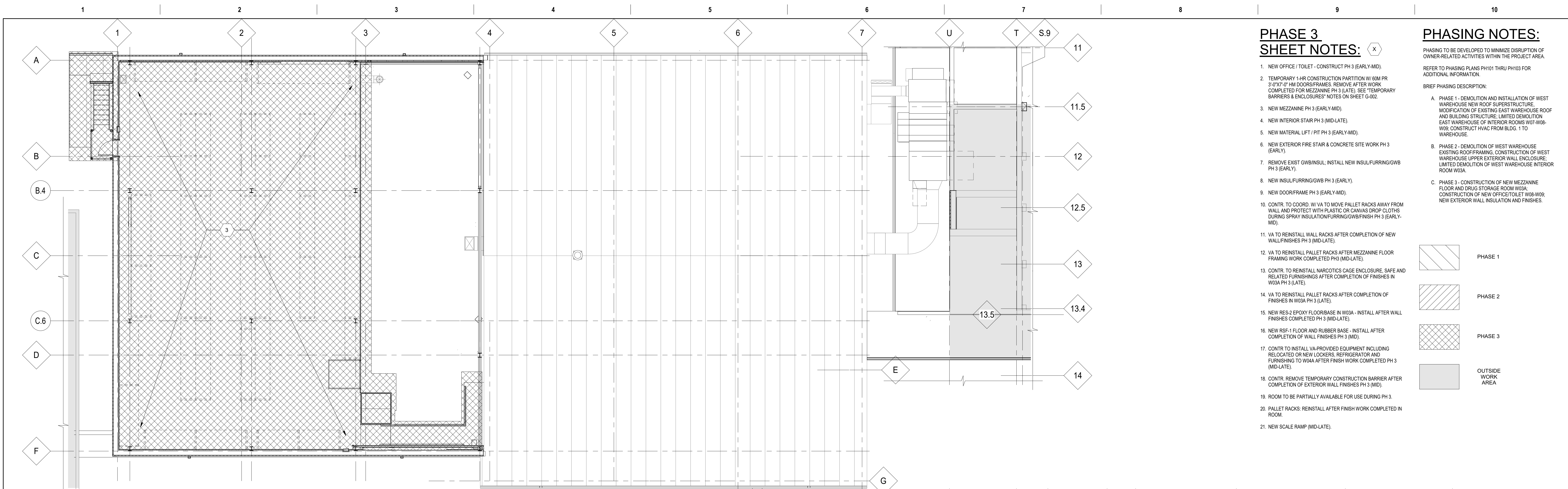
Building Number
14

Drawing Number
PH102
Dwg. # 9 of 94

Issue Date
03/24/2021

Checked
AHT

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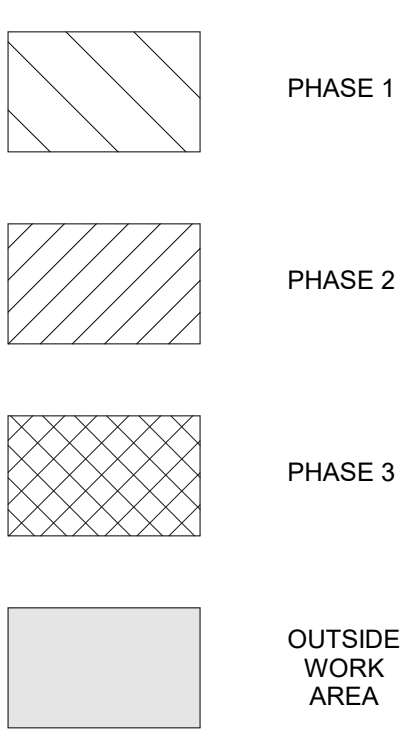


PHASE 3 SHEET NOTES:

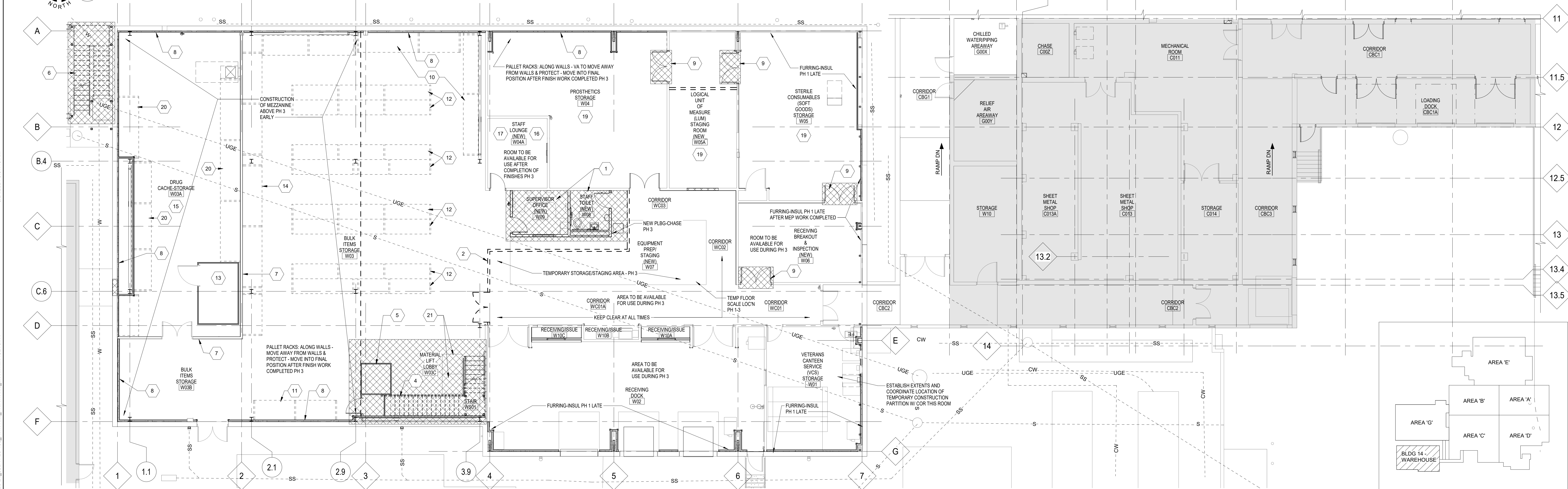
- NEW OFFICE / TOILET - CONSTRUCT PH 3 (EARLY-MID).
- TEMPORARY 1-HR CONSTRUCTION PARTITION W/ 60M PR 2"x7"x7" HIR DOORS/FRAMES. REMOVE AFTER WORK COMPLETED FOR MEZZANINE PH 3 (LATE). SEE "TEMPORARY BARRIERS & ENCLOSURES" NOTES ON SHEET G-002.
- NEW MEZZANINE PH 3 (EARLY-MID).
- NEW INTERIOR STAIR PH 3 (MID-LATE).
- NEW MATERIAL LIFT / PIT PH 3 (EARLY-MID).
- NEW EXTERIOR FIRE STAIR & CONCRETE SITE WORK PH 3 (EARLY).
- REMOVE EXIST GWB/INSUL. INSTALL NEW INSUL/FURRING/GWB PH 3 (EARLY).
- NEW INSUL/FURRING/GWB PH 3 (EARLY).
- NEW DOOR/FRAME PH 3 (EARLY-MID).
- CONTR. TO COORD. W/ VA TO MOVE PALLET RACKS AWAY FROM WALL AND PROTECT WITH PLASTIC OR CANVAS DROP CLOTHS DURING SPRAY INSULATION/FURRING/GWB/FINISH PH 3 (EARLY-MID).
- VA TO REINSTALL WALL RACKS AFTER COMPLETION OF NEW WALL/FINISHES PH 3 (MID-LATE).
- VA TO REINSTALL PALLET RACKS AFTER MEZZANINE FLOOR FRAMING WORK COMPLETED PH 3 (MID-LATE).
- CONTR. TO REINSTALL NARCOTICS CAGE ENCLOSURE, SAFE AND RELATED FURNISHINGS AFTER COMPLETION OF FINISHES IN W03A PH 3 (LATE).
- VA TO REINSTALL PALLET RACKS AFTER COMPLETION OF FINISHES IN W03A PH 3 (LATE).
- NEW RES-2 EPOXY FLOORBASE IN W03A - INSTALL AFTER WALL FINISHES COMPLETED PH 3 (MID-LATE).
- NEW RSF-1 FLOOR AND RUBBER BASE - INSTALL AFTER COMPLETION OF WALL FINISHES PH 3 (MID).
- CONTR. TO INSTALL VA-PROVIDED EQUIPMENT INCLUDING RELOCATED OR NEW LOCKERS, REFRIGERATOR AND FURNISHING TO W04A AFTER FINISH WORK COMPLETED PH 3 (MID-LATE).
- CONTR. REMOVE TEMPORARY CONSTRUCTION BARRIER AFTER COMPLETION OF EXTERIOR WALL FINISHES PH 3 (MID).
- ROOM TO BE PARTIALLY AVAILABLE FOR USE DURING PH 3.
- PALLET RACKS: REINSTALL AFTER FINISH WORK COMPLETED IN ROOM.
- NEW SCALE RAMP (MID-LATE).

PHASING NOTES:

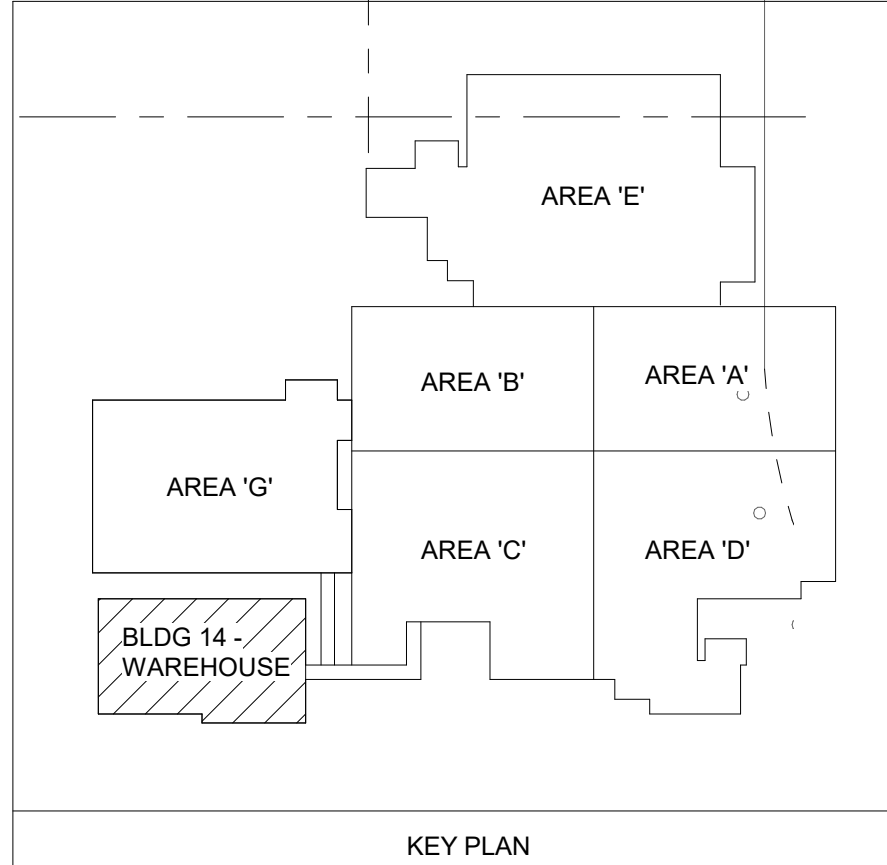
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1 MEZZANINE PLAN - PHASE 3
1/8" = 1'-0"



2 FLOOR PLAN - PHASE 3
1/8" = 1'-0"



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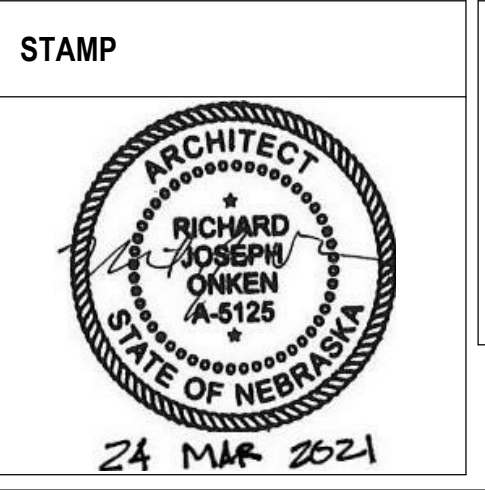
BID SET	03/24/2021
Revisions:	Date:

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Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title
PHASING PLAN - PHASE 3

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
**RENOVATE WAREHOUSE FOR
PANDEMIC PREPAREDNESS**

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

Checked
AHT

Drawn
TJF

Project Number
589A4-20-158

Building Number
14

Drawing Number
PH103
Dwg. # 10 of 94

DESIGN CRITERIA AND LOADS

- 1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:
IBC 2018
ASCE/SEI 7-16
ACI 318-14
ACI 530-16
ASCE 360-16
ASCE 341-16, INCLUDING SUPPLEMENTS
AWS D1.1
TMS 402/602-16
VA 1H-19
2. RISK CATEGORY III
3. SEISMIC DESIGN CATEGORY B
IMPORTANCE FACTOR 1.25
SOIL CLASSIFICATION PER GEOTECHNICAL REPORT C
Ss 0.163 g
Si 0.094 g
Ss 0.141 g
Ss 0.094 g
SEISMIC FORCE RESISTING SYSTEM BUILDING FRAME SYSTEM WITH STEEL ORDINARY CONCENTRICALLY BRACED FRAMES
R 2.5
Cs 3.25
Dd Equivalent Lateral Force Procedure
ANALYSIS PROCEDURE V = Cs x W = 0.055 x 517 = 29 KIPS, EAST-WEST
BASE SHEAR, STRENGTH LEVEL W = Cs x W = 0.055 x 560 = 31 KIPS, NORTH-SOUTH
4. WIND:
BASIC WIND SPEED 116 MPH
IMPORTANCE FACTOR 1.0
EXPOSURE CLASS B
WIND DESIGN PRESSURE 22 PSF
NET ROOF UPLIFT PRESSURE 20 (L.C. 0.9DL + 1.0WL)
ACTIVE PRESSURE PER APPLICABLE BUILDING CODE
5. LIFE LOADS:
TYPICAL ROOF 20 PSF (REDUCIBLE)
MEZZANINE WAREHOUSE FLOOR 125 PSF (UNREDUCIBLE)
STAIRS AND LANDINGS 100 PSF (UNREDUCIBLE)
HANDRAILS 100 PSF (UNREDUCIBLE)
MAX SIMUL TANEOS VERT AND HORIZ THRUST 200 LBS IN ANY DIRECTION
6. SNOW:
GROUND SNOW 20 PSF
SNOW EXPOSURE FACTOR 1.0
THERMAL FACTOR 1.0
IMPORTANCE FACTOR 1.1
FLAT ROOF SNOW 16 PSF
DRIFTING SNOW 22 PSF
DRIFTING SNOW 48 PSF TAPERING TO 0 PSF OVER 12'-0"

GENERAL

- 1. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR THEIR EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE CONTRACTOR AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND THEIR PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OF THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOBSITE SAFETY. THE ENGINEER AND THE ENGINEER'S CONSULTANTS SHALL BE MADE ADDITIONAL INSURED UNDER THE CONTRACTOR'S GENERAL LIABILITY INSURANCE POLICY.
2. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION. START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
4. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
5. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
6. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
7. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE SCALE OVER SMALL SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
8. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
9. THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE.
10. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, FITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
11. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
12. NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
13. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH BIDDER SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE BID SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS.
14. SHOP DRAWINGS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT/STRUCTURAL ENGINEER.
15. SHOP DRAWINGS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE ARCHITECT/STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
16. ELEVATIONS ARE BASED ON THE EXISTING FIRST FLOOR ELEVATION OF (+723' - 0").

CAST-IN-PLACE CONCRETE

- 1. CONCRETE STRENGTHS SHALL CONFORM TO:
INTENDED USE 28-DAY STRENGTH (PSI) MAX WC RATIO A/E SLUMP
FOOTINGS 3000 0.45 N/A 1'-4"
FOUNDATIONS 4000 0.45 5-8% 1'-4"
SLAB-ON-GRADE 4000 0.5 N/A 4'-6"
UNLESS NOTED OTHERWISE 4000 0.45 5-8% 1'-4"
2. DRYPACK SHALL BE 1-3/4" PORTLAND CEMENT TO SAND WITH A MINIMUM 28-DAY STRENGTH OF 7000 PSI.
3. SLAB ON GRADE CONSTRUCTION:
LOCATE SAW CUT CONTROL JOINTS ALONG COLUMN LINES WITH INTERMEDIATE JOINTS SPACED PER THE TABLE BELOW. UNO. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5:1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-ENTRANT CORNERS.
THICKNESS (IN) MAX JOINT SPACING (FT)
4 12
5 15
4. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ASSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, EDGES OF WALLS/GRADE BEAMS AND PIERS.
5. UNO. ALL FOOTINGS SHALL BE CENTERED UNDER WALLS, PIERS OR COLUMNS.
6. DO NOT PLACE PIPES, DUCTS, REGLETS OR CHASES IN STRUCTURAL CONCRETE WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.
7. NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER 48 HOURS MINIMUM PRIOR TO ALL POURS.
8. GENERAL CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIZE, LOCATION AND HEIGHT OF MECHANICAL EQUIPMENT PADS ON CONCRETE SLAB ON STEEL DECK AND SLAB-ON-GRADE.

MASONRY

- 1. MINIMUM 28-DAY COMPRESSIVE STRENGTHS FOR MASONRY CONSTRUCTION SHALL BE:
DESIGN ASSEMBLY STRENGTH, fm 2000 PSI
INDIVIDUAL CONCRETE MASONRY UNITS 1800 PSI
MORTAR 2000 PSI
2. MASONRY MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:
CONCRETE MASONRY UNITS (CMU) ASTM C90, GRADE N-1
MORTAR ASTM C270, TYPE S
GROUT ASTM C476
REINFORCING STEEL ASTM A615, GR 60
PLATE AND BENT BAR ANCHORS ASTM A36
SHEET METAL ANCHORS AND TIES ASTM A1008
WIRE MESH TIES ASTM A1064
WIRE TIES AND ANCHORS ASTM A951
ANCHOR BOLTS ASTM A307, GRADE A
3. BAR SPLICES SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS. IF SPICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS EXCEPT BARS LARGER THAN #9 SHALL BE MECHANICALLY SPLICED.
ASD (IBC 2012/2015/2018):
MINIMUM LAP SPICE LENGTH
BAR SIZE fm = 2000 PSI
8" CMU 12 12 12
#3 13 12 12
#4 20 16 13
#6 38 29 24
4. GROUT SOLID ALL JAMBS FULL HEIGHT IN LOAD BEARING MASONRY WALLS TO UNDERSIDE OF LINTEL. EXTEND GROUTED JAMB FROM FACE OF MASONRY OPENING AT LEAST EQUAL TO THE BEARING LENGTH OF THE LINTEL BEYOND THE OPENING PLUS 8 INCHES.
5. PROVIDE A MINIMUM OF 1 INCH GROUT BETWEEN MAIN REINFORCING AND/OR BOLT AND MASONRY UNIT FACE. VERTICAL REINFORCEMENT SHALL BE CENTERED IN WALL UNO.
6. COORDINATE ANY UNIDENTIFIED PIPE OR DUCT PASSING THROUGH STRUCTURAL MASONRY WALLS, UNLESS NOTED OR DETAILED SPECIFICALLY.

MINIMUM LAP SPICE LENGTH

Table with 4 columns: BAR SIZE, 8" CMU, 10" CMU, 12" CMU. Rows for #3, #4, #5, #6.

LINTELS

- 1. ALL CMU WALLS IN THIS PROJECT ARE NON-LOAD BEARING. REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS, THICKNESS, AND OPENING SIZES.
2. LINTELS ARE NOT REQUIRED AT OPENINGS THAT ARE 12" WIDE OR LESS AND AT LEAST 1 COURSE BELOW THE TOP OF WALL.
3. ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING. BEARING PLATES ARE NOT REQUIRED.
4. ALL LINTELS IN EXISTING MASONRY WALLS SHALL CONSIST OF DOUBLE STEEL ANGLES OR STEEL PLATE, SIZED AS LISTED BELOW. REMOVE AND REPLACE (E) MASONRY AS REQUIRED TO INSTALL ANGLES WITH THE REQUIRED BEARING.
5. ANY LINTELS THAT OCCUR IN EXTERIOR WALLS SHALL BE HOT-DIP GALVANIZED.
6. LINTELS IN 6" NON-LOAD BEARING CMU SHALL BE SIZED AS FOLLOWS BELOW. CUT FIRST COURSE OF BLOCK ABOVE LINTEL AS REQUIRED TO FIT ANCHOR STEEL.
SPAN L STEEL OPTION
0'-0" < L < 2'-0" 5/16" x 5 1/2" PLATE
2'-0" < L < 4'-0" (2) L3 1/2x2 1/2x1/4 (LLV)
4'-0" < L < 6'-4" INVERTED W17x13 CONTACT ENGINEER
L > 6'-4"
7. LINTELS IN 12" NON-LOAD BEARING CMU TO BE SIZED AS FOLLOWS BELOW. CUT FIRST COURSE OF BLOCK ABOVE LINTEL AS REQUIRED TO FIT ANCHOR STEEL.
SPAN L STEEL OPTION
0'-0" < L < 2'-0" 5/16" x 11 1/2" PLATE
2'-0" < L < 4'-0" (2) L5x5x5/16
4'-0" < L < 6'-4" (2) L5x5x3/8 CONTACT ENGINEER
L > 6'-4"

POST-INSTALLED ANCHORS

- 1. ANCHORS SERVING AS THE BASIS OF DESIGN ARE SHOWN ON THE DRAWINGS. ACCEPTABLE ALTERNATIVE ANCHORS MAY BE SUPPLIED PROVIDED THE QUANTITY AND CONFIGURATION MATCH THE CAPACITY OF THE DESIGN ANCHOR QUANTITY AND CONFIGURATION. ANY ALTERNATES ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. BELOW SUMMARIZES EACH ANCHOR TYPE USED ON THE PROJECT.
2. MECHANICAL ANCHORS:
EXPANSION ANCHORS
ANCHORED INTO BASIS OF DESIGN ACCEPTABLE ALTERNATES
GROUTED MASONRY HILTI KWIK BOLT 3 [ESR-1385] DEWALT POWER STUD+ S01 [ESR-2966] SIMPSON WEDGE-ALL [ESR-1396]
UNCRACKED CONCRETE HILTI KWIK BOLT 3 [ESR-2302] DEWALT POWER STUD+ S02 [ESR-2502] RED HEAD TRUBOLT+ [ESR-2427] SIMPSON STRONG BOLT 2 [ESR-3037]
CRACKED CONCRETE HILTI KWIK BOLT 1Z [ESR-1917] DEWALT POWER STUD+ S02 [ESR-2502] RED HEAD TRUBOLT+ [ESR-2427] SIMPSON STRONG BOLT 2 [ESR-3037]
THREADED SCREW ANCHORS
ANCHORED INTO BASIS OF DESIGN ACCEPTABLE ALTERNATES
GROUTED MASONRY HILTI KWIK HWS-EZ [ESR-3056] DEWALT WEDGE-BOLT+ [ESR-1678] SIMPSON TITEN HD [ESR-1056]
UNCRACKED CONCRETE HILTI KWIK HWS-EZ [ESR-3027] DEWALT POWER SCREW-BOLT+ [ESR-3889] SIMPSON TITEN HD [ESR-2713]
CRACKED CONCRETE HILTI KWIK HWS-EZ [ESR-3027] DEWALT POWER SCREW-BOLT+ [ESR-3889] SIMPSON TITEN HD [ESR-2713]
3. ADHESIVE ANCHORS: SHALL CONSIST OF DEFORMED REINFORCING BARS OR ASTM A193 GRADE B7 RODS, HEAVY DUTY NUTS AND WASHERS AND A TWO COMPONENT STRUCTURAL ADHESIVE. WHERE ANCHORING INTO HOLLOW MASONRY, A SCREEN TUBE SHALL BE PROVIDED.
ANCHORED INTO BASIS OF DESIGN ACCEPTABLE ALTERNATES
HOLLOW MASONRY HILTI HIT-HY 270 [ESR-4143] DEWALT AC 100+ GOLD [ESR-3200] SIMPSON SET-XP [ESR-0265]
GROUTED MASONRY HILTI HIT-HY 270 [ESR-4143] DEWALT AC 100+ GOLD [ESR-3200] RED HEAD A7 ACrylic [ESR-3651] SIMPSON SET-XP [ESR-0265]
CONCRETE HILTI HIT-HY 200 [ESR-3187] DEWALT AC 200+ [ESR-4027] SIMPSON SET-3G [ESR-4057]

STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW:
WIDE FLANGE SHAPES ASTM A992 Fy = 50 KSI
OTHER ROLLED SHAPES ASTM A36 Fy = 36 KSI
HSS SECTIONS, SORCECT ASTM A500, GR B Fy = 46 KSI
BASE AND CONNECTION PLATES ASTM A36 Fy = 36 KSI
ANCHOR RODS ASTM F1554, GR 36 Fy = 36 KSI
HIGH STRENGTH BOLTS ASTM F3125, GR A325 Fy = 120 KSI
HIGH STRENGTH TWIST-OFF BOLTS ASTM F3125, GR F1852 Fv = 120 KSI
HEAVY HEX NUTS ASTM A463
WASHERS ASTM F436
HEADED STUDS ASTM A108, TYPE B
ELECTRODES FOR ARC WELDING AWS 5.1, E70XX
2. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". REFER TO DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.
3. USE "TENSION-CONTROL, "TWIST-OFF", BOLTS FOR ALL HIGH STRENGTH BOLTS REQUIRING FULL TENSION AS INDICATED ON THE DRAWINGS.
4. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A325N, UNO. FOR ALL DRAG STRUT BOLTS, HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A4909C.
5. STANDARD BOLT HOLES IN STEEL SHALL BE 1/16" INCH LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNO.
6. BOLTS IN SLOTTED HOLES SHALL BE LOCATED IN THE CENTER OF THE HOLE AFTER FIELD ASSEMBLY IS COMPLETE, UNLESS DETAILED OTHERWISE.
7. WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED, WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360, SECTION J2.4.
8. FIELD CONNECTIONS SHALL BE BOLTED TO THE GREATEST EXTENTS POSSIBLE TO MINIMIZE FIELD WELDING. SHOP CONNECTIONS SHALL BE WELDED, UNO. WELDS INDICATED WITH A SHOP WELD SYMBOL MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. LOCATIONS OF ALL FIELD WELDS SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS. WELDS SHALL BE DESIGNED TO BE FULLY EQUIVALENT IN STRENGTH TO BOLTED CONNECTIONS DETAILED TO MINIMIZE BENDING IN THE CONNECTION.
9. HEADED STUDS:
A. STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8" AND SMALLER AND 3/16" FOR LARGER THAN 5/8". WELDING SHALL BE DONE ONLY BY QUALIFIED WELDERS APPROVED BY THE INSPECTION AGENCY.
10. REFER TO DRAWINGS FOR DETAIL OF DECK OPENINGS, REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, ETC. FOR EXACT SIZE, LOCATION, AND COUNT OF REQUIRED OPENINGS.
11. CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, UNLESS BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER. NO HOLES SHALL BE CUT IN STRUCTURAL STEEL BY OTHER TRADES UNLESS SHOWN ON STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

STEEL JOISTS

- 1. ATTACH STEEL JOIST TO SUPPORT AS FOLLOWS:
DETAILS WITH WELD INFORMATION DETAILS WITH BOLT INFORMATION MINIMUM END BEARING (IN)
JOIST TYPE/SERIES WELD SIZE WELD LENGTH (IN) BOLT DIAMETER (IN) BOLT MATERIAL STEEL MASONRY
K 1/8 2 1/2 A307 2 1/2 4
WHERE WELDS OR BOLTS ARE INDICATED, WELD/BOLT TO BE INSTALLED ON BOTH SIDES OF JOIST SEAT.
2. DESIGN JOIST SEAT FOR 1650 LB ROLLOVER LOAD FOR K-SERIES JOIST ONLY.
3. JOISTS SHALL BE DESIGNED FOR A MAXIMUM LIVE LOAD DEFLECTION OF L/360, UNO.
4. PROVIDE BRIDGING PER SJI SPECIFICATIONS. DESIGN AND PROVIDE UPLIFT BRIDGING TO WITHSTAND A NET UPLIFT PRESSURE AS INDICATED WITHIN THE DESIGN CRITERIA AND LOADS NOTES. WHERE BRIDGING INTERFERES WITH MECHANICAL OR OTHER TRADE INSTALLATIONS, THE FABRICATOR SHALL REMOVE THE BRIDGING AFTER THE STEEL DECK IS IN PLACE AND REPLACE AS DIRECTED BY THE JOIST MANUFACTURER.
5. ERECTOR SHALL FOLLOW MANUFACTURER'S AND STEEL JOIST INSTITUTE'S GUIDELINES FOR ERECTION STABILITY AND HANDLING.
6. WHERE STEEL COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, JOISTS AT COLUMN LINES SHALL BE FIELD BOLTED.
7. NO CONCENTRATED LOAD OR CONNECTION SHALL BE APPLIED TO THE JOISTS WITHOUT WRITTEN APPROVAL FROM THE JOIST MANUFACTURER, UNO.

STEEL DECK

- 1. DECK SIZE AND GAUGE INDICATED ON THE DRAWINGS ARE BASED ON THE FOLLOWING:
A. VULCRRAFT 2015 CATALOG FOR GRAVITY DESIGN LOADS AND UNSHORED CONSTRUCTION SPANS.
B. STEEL DECK INSTITUTE (SDI) DIAPHRAGM DESIGN MANUAL, 3RD EDITION FOR DIAPHRAGM LOADS.
2. STEEL DECK GALVANIZING SHALL CONFORM TO ASTM A653 WITH A MINIMUM COATING OF G60.
3. PAINTED STEEL ROOF DECK SHALL CONFORM TO ASTM A1008, GRADE C.
4. ALL DECK SHALL MEET THE MINIMUM TYPE AND GAUGE INDICATED ON THE DRAWINGS, AND AS FOLLOWS:
TYPE GAUGE Ix Sx Fy
1.5" B (ROOF) 22 0.155 0.186 33
20 0.201 0.234 33
18 0.289 0.316 33
16 0.373 0.408 33
5. UNLESS NOTED OTHERWISE, DECK SHALL BE FASTENED WITH 5/8" PUDDLE WELDS AT 12" OC AT ALL SUPPORTS AND EDGES. SIDE SAPS SHALL BE FASTENED WITH #10 TEX SCREWS, MINIMUM ONE AT EACH MIDSPAN. OPENING EDGES SHALL RECEIVE THE SAME WELDING AS REQUIRED AT DECK ENDS. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS EXPERIENCED IN COLD-FORMED STEEL DECK WORK.
6. PROVIDE 16 GAUGE WELD WASHERS AT PUDDLE WELD CONNECTIONS TO 24 GAUGE AND LIGHTER STEEL DECKS.
7. USE SLUMP PANS AT ALL ROOF DRAINS. MINIMUM THICKNESS FOR SLUMP PANS SHALL BE 14 GAUGE.
8. DO NOT PLACE PIPES, DUCTS, REGLETS OR CHASES IN COMPOSITE FLOOR SYSTEMS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
9. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO STEEL ROOF DECK. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDES ADJACENT MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS HANGING FROM THE DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG.
10. CORRUGATED FORM DECK GAUGES SHOWN ON THE DRAWINGS ARE INTENDED TO SUPPORT THE WEIGHT OF THE WET CONCRETE PLUS A CONSTRUCTION LIVE LOAD OF 20 PSF WITHOUT INTERMEDIATE SHORING BASED ON A THREE SPAN CONTINUOUS CONDITION. DECK MANUFACTURER SHALL EVALUATE OTHER SPAN CONDITIONS FOR DEFLECTION WHICH SHALL NOT EXCEED L/180 NOR 1/8" INCH UNDER THE UNIFORMLY DISTRIBUTED CONCRETE DEAD LOAD AND NOTE AREAS WHICH WILL REQUIRE SHORING TO CONTROL DEFLECTION AND/OR MEET ALLOWABLE STRESSES.
STRUCTURAL TESTS AND INSPECTIONS
1. UNLESS NOTED, MATERIALS SHALL CONFORM AND TESTS AND INSPECTIONS SHALL BE PERFORMED BY THE INSPECTION AGENCY WHO IS APPROVED THE ARCHITECT AND THE STRUCTURAL ENGINEER. CONTINUOUS AND PERIODIC TESTING AND INSPECTION SHALL CONFORM TO IBC CHAPTER 17, AND AS FOLLOWS:
A. DRIVEN DEEP FOUNDATIONS 1705.7
B. HELICAL PILE FOUNDATIONS 1705.9
C. CONCRETE CONSTRUCTION 1705.4
D. MASONRY CONSTRUCTION 1705.2
E. STEEL CONSTRUCTION 1705.2
F. SOILS 1705.6
G. WIND RESISTANCE 1705.11
H. SEISMIC RESISTANCE 1705.12, 1705.13
2. REFER TO ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS OR SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS OF NON-STRUCTURAL COMPONENTS.
3. DUTIES OF THE INSPECTION AGENCY PER IBC CHAPTER 17:
A. SUBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER, THE ARCHITECT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.
B. PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.
C. FURNISH INSPECTION REPORT TO THE BUILDING OFFICIAL, THE OWNER, THE ARCHITECT, STRUCTURAL ENGINEER AND THE GENERAL CONTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOURS OF INSPECTED WORK.
D. SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

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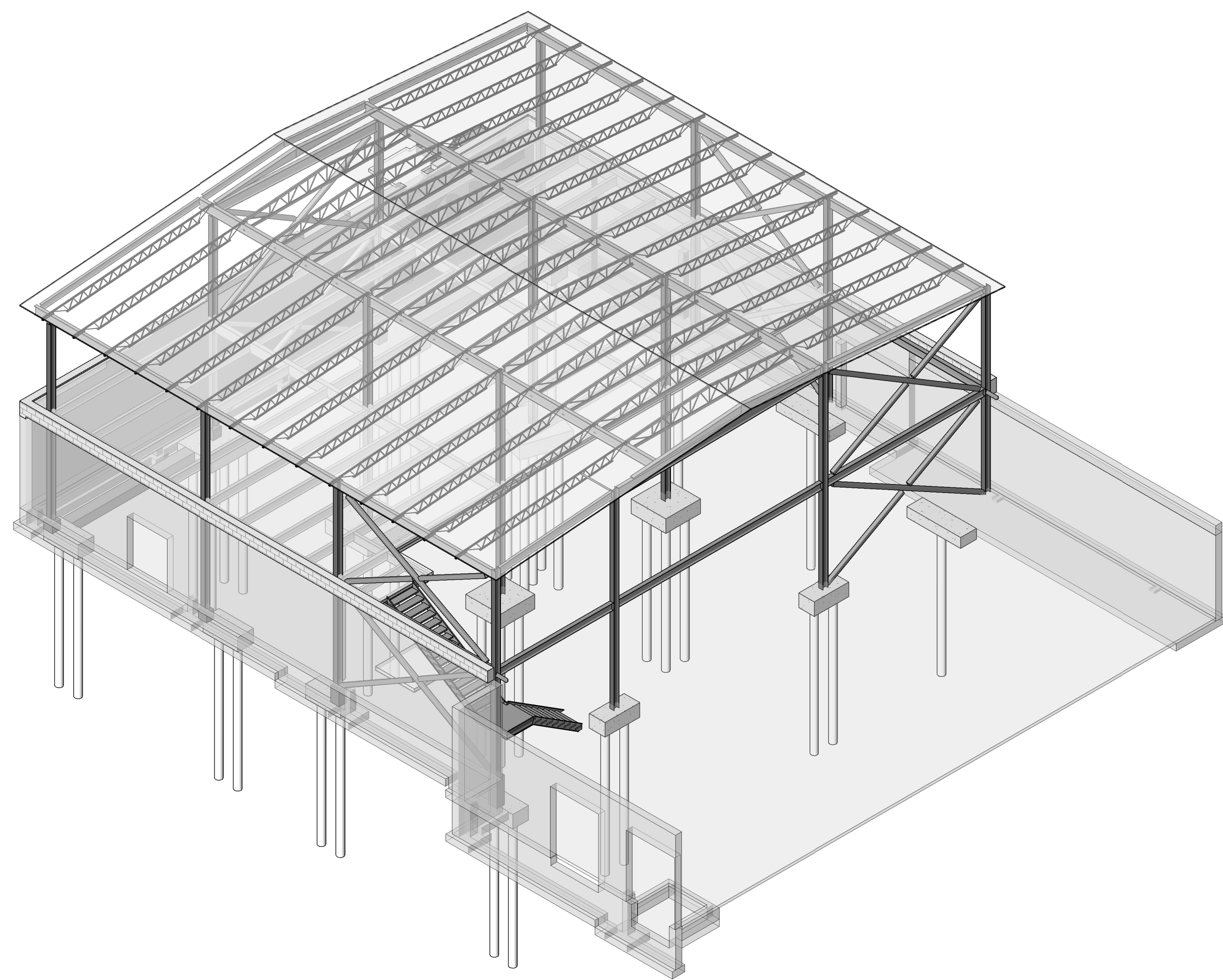
Office of Construction and Facilities Management
U.S. Department of Veterans Affairs

Drawing Title: GENERAL NOTES
Approved: [Signature]

Phase: BID SET
FULLY SPRINKLERED

Project Title: RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS
Project Number: 589A4-20-158
Building Number: 14
Location: HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201
Issue Date: 03/24/2021
Checked: MICALB
Drawn: WALLEW
Drawing Number: S-001
Dwg. # 11 of 94

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1 VIEW - FOR REFERENCE ONLY

NOTES:
1. 3D VIEW IS FOR REFERENCE ONLY - NOT FOR CONSTRUCTION. REFER TO PLANS, DETAILS AND SPECIFICATIONS FOR ACTUAL CONSTRUCTION REQUIREMENTS.

STRUCTURAL ABBREVIATION KEY	
ABBR:	DESCRIPTION:
@	NUMBER OR POUNDS
AT	AT
°	DEGREE
Ø	DIAMETER
-3'	SLAB DEPRESSION
A.B.	ANCHOR BOLT
AHU	AIR-HANDLING UNIT
ARCH	ARCHITECT. CURVE, -URAL
B.O.	BOTTOM OF
bf	BEAM FLANGE WIDTH
BF	BRACE FRAME
BLKG	BLOCKING
BM	BEAM
B.N.	BOUNDARY NAILING
B.O.F.	BOTTOM OF FOOTING
BOTT	BOTTOM
BP	BASE PLATE
BTWN	BETWEEN
CFSF	COLD FORM STEEL FRAMING
CLR	CLEAR
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
C.P.	COMPLETE JOINT PENETRATION WELD
DIA	DIAMETER
DM	DIMENSION
DL	DEAD LOAD
DET	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
E.N.	EDGE NAILING
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
(E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
f _c	CONCRETE COMPRESSIVE STRENGTH
FDN	FOUNDATION
FIN	FINISH, -ED
FLR	FLOOR
F.N.	FIELD NAILING
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
FRMG	FRAMING
FT	FOOT
FTG	FOOTING
F _y	YIELD STRESS
GALV	GALVANIZED
GB	GRADE BEAM
HI	HIGH
HORIZ	HORIZONTAL
HSB	HIGH STRENGTH BOLT
IN	INCH
INT	INTERIOR
JOINT	JOINT
K, KIP	KILOPOUND (1,000 POUNDS)
KSP	KIPS PER SQUARE FOOT
LB	POUND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LO	LOW
LONG	LONGITUDINAL
LT WT	LIGHTWEIGHT
M.B.	MACHINE BOLT
MAX	MAXIMUM
MANUF	MANUFACTURER
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MTL	METAL
N	NORTH
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OH	OPPOSITE HAND
OPNG	OPENING
PC	PIECE
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
P.H.	PENTHOUSE
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
P.P.	PARTIAL JOINT PENETRATION WELD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTDF	PRESSURE TREATED DOUGLAS FIR
R	RADIUS
REINF	REINFORCING, -MENT, -ED
REQD	REQUIRED
RTU	ROOF TOP UNIT
SC	TC WITH CLASS A FAYING SURFACE
SCBP	SPECIAL CONCENTRIC BRACE FRAME
SCHED	SCHEDULE
SEPN	SEPARATION
SIM	SIMILAR
SHTG	SHEATHING
SL	SNOW LOAD
SLRS	SEISMIC LOAD RESISTING SYSTEM
SOG	SLAB ON GRADE
SP	SPACE(S)
SPEC	SPECIFICATION(S)
SO	SQUARE
STIFF	STIFFENER
STL	STEEL
SUPPT	SUPPORT
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T.O.	TOP OF
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TC	PRE-TENSIONED BOLT
TEMP	TEMPERATURE
t	BEAM FLANGE THICKNESS
THK	THICK
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VWA	VERIFY WITH ARCHITECTURAL DRAWINGS
W	WITH
WP	WORK POINT
WT	WEIGHT
WWR	WELDED WIRE REINFORCING

VIEW KEY	
NAME	LEVEL NAME
10' - 0"	HEIGHT ABOVE PROJECT 0' - 0"
(1)	INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL
(NORTH)	INDICATES DIRECTION OF TRUE NORTH
(1)	PLAN OR DETAIL NUMBER
(1)	PLAN OR DETAIL NAME
1/8" = 1'-0"	PLAN OR DETAIL SCALE
(SIM)	INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
(1)	DETAIL REFERRED TO BY SECTION CUT
S300	SHEET DETAIL IS LOCATED ON
LINE TYPE KEY:	
(DARK SOLID LINE)	NEW WORK
(DARK DASHED LINE)	REMOVED
(LIGHT SOLID LINE)	EXISTING TO REMAIN
(DASHED LINE)	GRID OR CENTERLINE
MATERIAL LEGEND:	
(Hatched Pattern)	CONCRETE - CAST-IN-PLACE
(Hatched Pattern)	CONCRETE - EXISTING
(Hatched Pattern)	EARTH
(Hatched Pattern)	GRAVEL OR GRANULAR FILL
(Hatched Pattern)	GROUT OR DRYPACK OR SAND
(Hatched Pattern)	MASONRY
(Hatched Pattern)	STEEL
(Symbol)	COLUMN DESIGNATION
(Symbol)	BASE PLATE MARK
(Symbol)	PIER MARK (TOP ELEVATION)
(Symbol)	PILE CAP MARK (TOP ELEVATION)

STRUCTURAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
(Symbol)	FLOOR OPENING
(Symbol)	METAL DECK (DIRECTION)
(Symbol)	REVISION TRIANGLE - NUMBER INDICATES REVISION NUMBER
(Symbol)	DRAIN/OVERFLOW
(Symbol)	HEADED STUD ANCHORS ON BEAMS
(Symbol)	BEAM CAMBER
(Symbol)	TOP OF STEEL FRAMING ELEVATION ABOVE ELEVATION +0' - 0"
(Symbol)	COLUMN BEARING ON CONCRETE PIER
(Symbol)	BEAM BEARING ON COLUMN
(Symbol)	WELD SIZE, LENGTH & SPACING, ETC. WHERE SHOWN ONE SIDE OF SYMBOL REFERENCE LINE, IT IS TYPICAL TO OPPOSITE SIDE IF SYMBOL OCCURS OPPOSITE SIDE, UNO
(Symbol)	STEP IN FOOTING
(Symbol)	EXISTING BUILDING GRID LINE
(Symbol)	NEW GRID LINE

BID SET	03/24/2021
Revisions:	Date:

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MICHAEL ALBERSWERTH
Professional Engineer
3-22-2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **GENERAL NOTES, ABBREVIATIONS**

Approved: _____

Phase: **BID SET**

FULLY SPRINKLERED

Project Title: **RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS**

Location: **HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date: 03/24/2021
Checked: MICALB
Drawn: WALLEW

Project Number: **589A4-20-158**

Building Number: **14**

Drawing Number: **S-002**
Dwg. # 12 of 94

A
B
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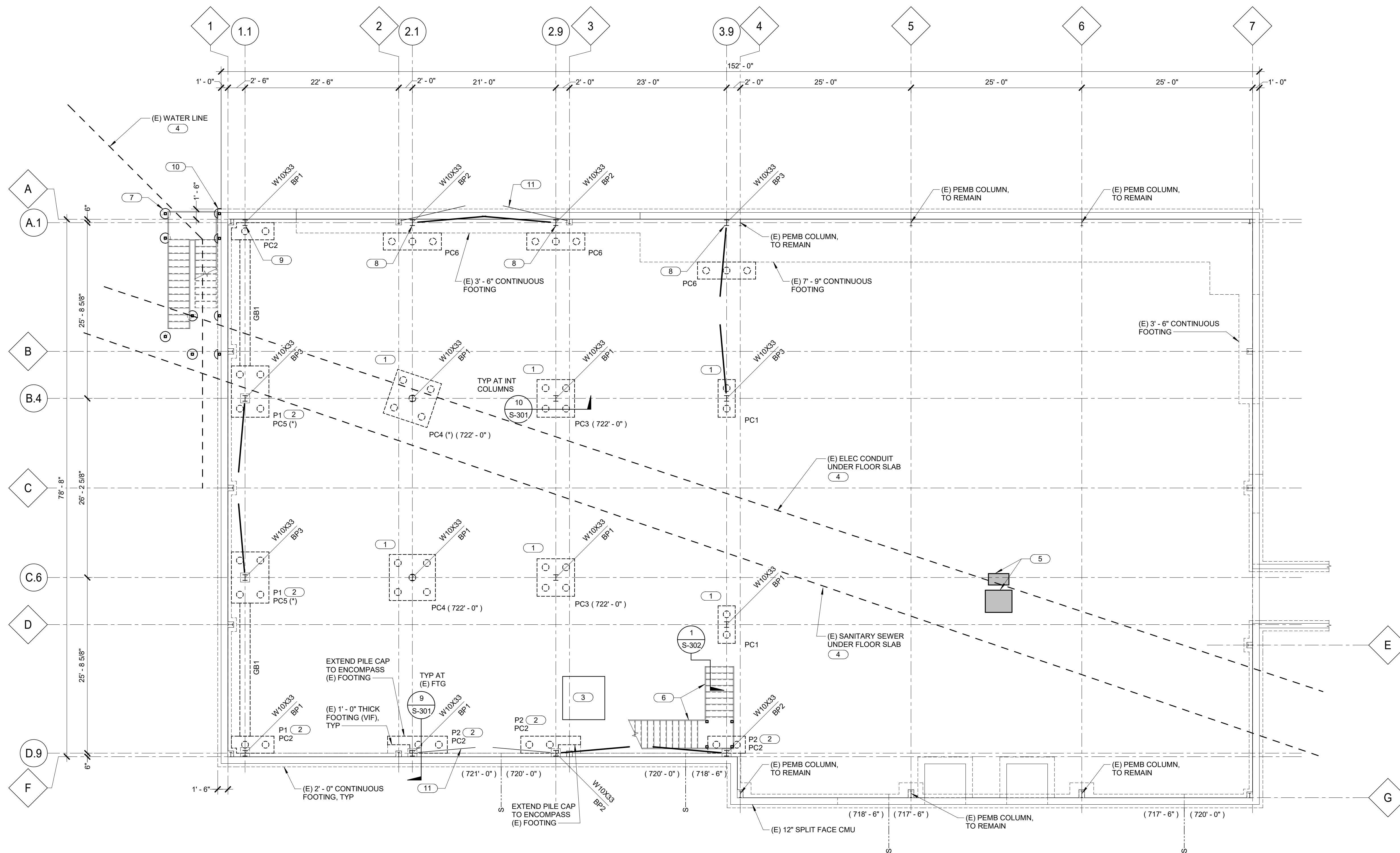
- NOTES:**
- (E) SLAB IS ASSUMED TO BE A 5" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH 6x6 - W2.9xW2.9 WWR. TOP OF SLAB ELEVATION (723'-0"). GENERAL CONTRACTOR TO DESIGN ANY ANCHORAGE INTO THE EXISTING SLAB ACCORDINGLY.
 - IF THE (E) SLAB-ON-GRADE IS REQUIRED TO BE REMOVED FOR WORK BY OTHER DISCIPLINES, REPLACE WITH A NEW SLAB OF EQUAL THICKNESS. REFER TO 1/S-301 AND 3/S-301.
 - PROVIDE CONCRETE HOUSEKEEPING PADS OR EQUIPMENT PADS AS REQUIRED FOR OTHER DISCIPLINES PER 2/S-301.
 - PC# INDICATES PILE CAP. REFER TO SCHEDULE, THIS SHEET.
 - PF# INDICATES CONCRETE PIER. REFER TO 5/S-301 OR 8/S-301 FOR DETAILS. TOP OF PIER ELEVATION (722'-0") UNO.
 - BP# INDICATES STEEL BASE PLATE. REFER TO 7/S-301.
 - GB1 = GRADE BEAM. TOP OF GRADE BEAM ELEVATION TO MATCH TOP OF PILE CAP ELEVATIONS. SEE 3/S-302 FOR DETAILS.
 - FOOTING ELEVATIONS THUS (xxx'-xx") INDICATE THE ASSUMED TOP ELEVATION OF EXISTING FOOTINGS. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO PREPARING SHOP DRAWINGS OR FABRICATING ANY NEW REINFORCEMENT OR STRUCTURAL STEEL.

- KEYNOTES: (#)**
- SAWCUT AND REMOVE EXISTING SLAB-ON-GRADE AS REQUIRED TO INSTALL NEW PILE CAP. REPLACE WITH NEW SLAB-ON-GRADE TO MATCH EXISTING SLAB THICKNESS.
 - SAWCUT AND REMOVE EXISTING SLAB-ON-GRADE TO CONSTRUCT NEW PIER. DOWEL PIER INTO EXISTING CONCRETE FOOTING.
 - SAWCUT AND REMOVE EXISTING SLAB-ON-GRADE AS REQUIRED TO CONSTRUCT NEW RECESSED SLAB FOR MATERIAL LIFT. COORDINATE LOCATION AND SIZE WITH ARCHITECTURAL DRAWINGS. REFER TO 4/S-301 FOR DETAILS.
 - EXISTING UNDER-SLAB UTILITIES ARE SHOWN BASED ON AVAILABLE ORIGINAL DRAWINGS. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - PATCH CONCRETE SLAB-ON-GRADE AT LOCATION OF (E) SCALE TO BE REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS. REFER TO 1 AND 3/S-301 FOR NEW SLAB CONSTRUCTION.
 - NEW STEEL STAIRS, INCLUDING STRINGERS, RAILS, INTERMEDIATE LANDING, AND ADDITIONAL SUPPORT POSTS, BY OTHERS. SEE ARCHITECTURAL DRAWINGS FOR CONFIGURATION AND DETAILS. CONTRACTOR TO PROVIDE ANCHORAGE INTO THE EXISTING CONCRETE SLAB AS REQUIRED FOR NEW POSTS.
 - NEW CONCRETE PIERS UNDER STAIR POSTS. COORDINATE LOCATIONS WITH ARCHITECTURAL SITE PLAN. SEE 2/S-302 FOR DETAILS. EXISTING UTILITIES MAY EXIST IN THIS AREA WHICH HAVE NOT BEEN PREVIOUSLY MAPPED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE PRESENCE AND DEPTH OF ALL EXISTING UTILITIES THAT MUST REMAIN PRIOR TO EXCAVATING PIERS.
 - SET NEW BASE PLATE DIRECTLY ON TOP OF EXISTING FOOTING. ASSUMED TOP OF FOOTING EL (721'-7") - CONTRACTOR TO VERIFY. ATTACH BASE PLATE TO (E) CONCRETE WITH 1"Ø HILTI HIT-RE ADHESIVE ANCHORS, 8" MINIMUM EMBEDMENT.
 - SET NEW BASE PLATE DIRECTLY ON TOP OF EXISTING FOOTING. ASSUMED TOP OF FOOTING EL (721'-0") - CONTRACTOR TO VERIFY. ATTACH BASE PLATE TO (E) CONCRETE WITH 3/4"Ø HILTI HIT-RE ADHESIVE ANCHORS, 8" MINIMUM EMBEDMENT.
 - IF NEW STAIR POSTS BEAR OVER THE EXISTING BUILDING FOOTING, REFER TO 4/S-302.
 - EXISTING CROSS BRACING THAT CONFLICTS WITH NEW COLUMN. CONTRACTOR TO ENSURE THAT THE EXISTING STRUCTURE REMAINS BRACED UNTIL NEW LATERAL SYSTEM IS INSTALLED.

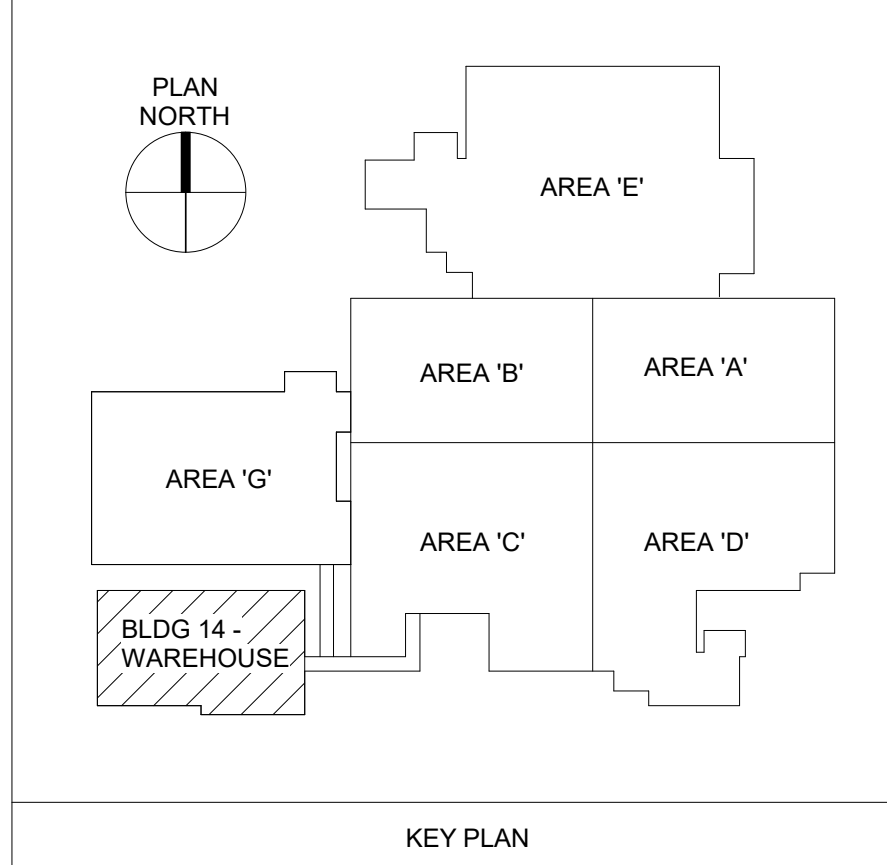
PILE CAP SCHEDULE

MARK	NUMBER OF MICRO-PILES	THICKNESS	BOTTOM REINFORCING		REMARKS
			LONG DIRECTION	SHORT DIRECTION	
PC1	2	24"	#5 @ 15" OC	#5 @ 12" OC	11/S-301
PC2	2	18"	#5 @ 15" OC	#5 @ 12" OC	11/S-301 (SIM)
PC3	4	24"	#5 @ 10" OC	#5 @ 10" OC	12/S-301
PC4	5	24"	#5 @ 6" OC	#5 @ 6" OC	13/S-301
PC5	4	24"	#5 @ 10" OC	#5 @ 10" OC	12/S-301 (SIM)
PC6	3	18"	#5 @ 15" OC	#5 @ 15" OC	14/S-301

- NOTES:**
- MICRO-PILES ASSUMED TO HAVE AN AXIAL CAPACITY OF 25 KIIPS AND TENSION CAPACITY OF 3.5 KIIPS (ASD). CONTRACTOR TO VERIFY CAPACITY DURING INSTALLATION AND CONTACT SEOR IF OTHERWISE.
 - PILES AND PILE CAPS MARKED WITH AN ASTERISK (*) ON PLAN ARE IN POTENTIAL CONFLICT WITH EXISTING UNDER-SLAB UTILITIES. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO PREPARING SHOP DRAWINGS OR PERFORMING ANY FOUNDATION WORK. MAKE ADJUSTMENTS TO THE PILE CAP SIZE AND ORIENTATION, AND PLACEMENT OF MICRO-PILES, AS REQUIRED TO AVOID IMPACTING UTILITIES. MICRO-PILE LOCATIONS MAY BE SHIFTED FROM POSITION SHOWN BY UP TO 3'-0" WITHOUT ANY OTHER CHANGES TO DESIGN. IF FURTHER MODIFICATIONS ARE REQUIRED, CONTACT THE STRUCTURAL ENGINEER. REINFORCEMENT AND THICKNESS IS OTHERWISE AS NOTED ON SCHEDULE ABOVE.
 - TOP OF PILE CAP SHALL BE AS NOTED ON PLAN. WHERE PILE CAP IS ADJACENT TO AN EXISTING FOOTING, BOTTOM ELEVATION SHALL MATCH BOTTOM OF EXISTING FOOTING. DO NOT OVER EXCAVATE BELOW BOTTOM OF EXISTING FOOTING.



1 FOUNDATION PLAN
1/8" = 1'-0"



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BID SET	03/24/2021
Revisions:	Date:

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3-22-2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FOUNDATION PLAN

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
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Drawn
WALLEW

Project Number
589A4-20-158

Building Number
14

Drawing Number
S-101

Dwg. # 13 of 94

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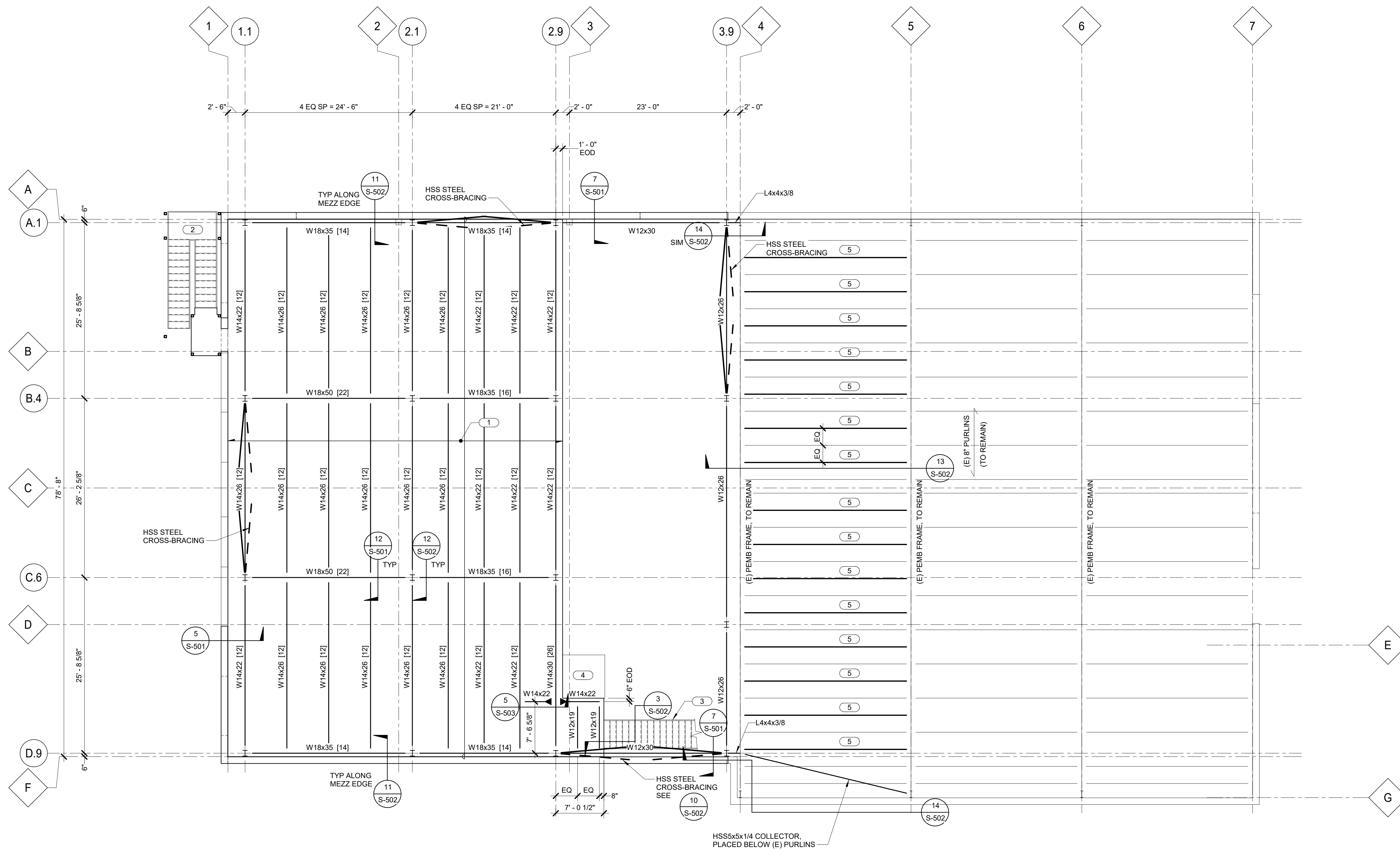
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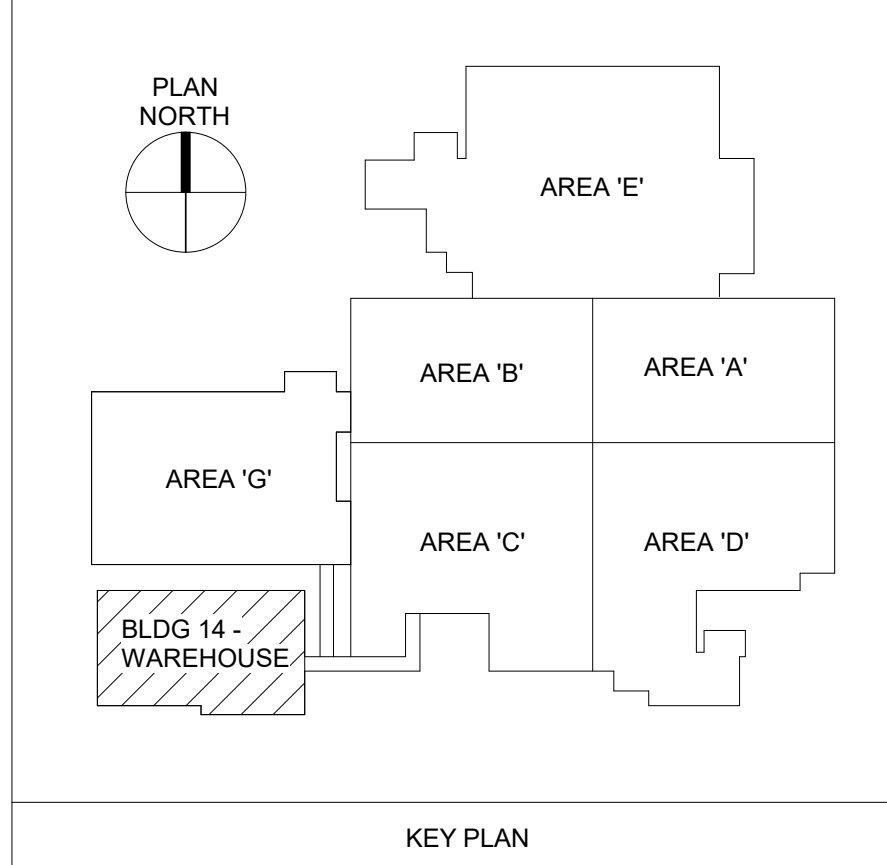
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- NOTES:**
- REFER TO DETAILS 1, 2, AND 3/S-501 FOR TYPICAL COMPOSITE SLAB CONSTRUCTION DETAILS.
 - (#) INDICATES NUMBER OF 3/4"x4" LONG HEADED STUDS EQUALLY SPACED ALONG BEAM LENGTH.
 - REFER TO 4 OR 5/S-502 FOR TYPICAL STEEL BEAM SHEAR CONNECTION.
 - REFER TO ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
 - INDICATES THRU-BEAM MOMENT CONNECTION, SEE 5/S-503.
 - REFER TO ARCHITECTURAL PLANS FOR SIZE, EXTENTS, AND LOCATIONS FOR NEW OPENINGS IN EXISTING NON-LOAD BEARING MASONRY WALLS. PROVIDE STEEL ANGLE LINTELS PER GENERAL NOTES ON SHEET S-001.

- KEYNOTES:** (#)
- 3" NORMAL WEIGHT CONCRETE SLAB ON 1.5" (20 GA) COMPOSITE METAL DECK, 2 SPAN MINIMUM, WITH 6x6 W2.1xW2.1 WWR. TOTAL SLAB THICKNESS = 4 1/2". TOP OF SLAB EL. (737'-6"), TOP OF STEEL EL. (737'-1 1/2").
 - NEW GALVANIZED STEEL STAIRS BY CONTRACTOR, INCLUDING ALL STRINGERS, LANDINGS, AND POSTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ELEVATIONS, RISE, RUN, HANDRAILS, ETC.
 - NEW STEEL STAIRS, INCLUDING STRINGERS, RAILS, INTERMEDIATE LANDING, AND ADDITIONAL SUPPORT POSTS, BY OTHERS. SEE ARCHITECTURAL DRAWINGS FOR CONFIGURATION AND DETAILS. STAIRS TO BE STRUCTURALLY INDEPENDENT FROM THE PRIMARY FRAMING.
 - MATERIAL LIFT - SEE ARCHITECTURAL DRAWINGS.
 - INSERT NEW PURLIN SPANNING FROM GRID 4 TO 5, FULL WIDTH OF BUILDING, BETWEEN (E) ROOF DECK AND (E) PEMB BEAMS. SIZE, GAGE THICKNESS, AND CONFIGURATION OF PURLINS TO MATCH EXISTING (CONTRACTOR TO FIELD VERIFY). FOR BIDDING PURPOSES, ASSUME THE PURLINS ARE C-SHAPED, 8" DEEP X 2 1/2" WIDE, 14 GA THICKNESS. PLACE ONE NEW PURLIN BETWEEN EACH EXISTING PURLIN AS SHOWN ON PLAN. ATTACH EXISTING ROOF DECK TO NEW PURLINS WITH #12 SCREWS (OR EQUIVALENT FASTENER) @ 12" OC MAX.



1 MEZZANINE FLOOR FRAMING PLAN
1/8" = 1'-0"



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Revisions:	Date:

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STATE OF MISSOURI
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Professional Engineer
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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
MEZZANINE FLOOR FRAMING PLAN

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

Checked
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Drawn
WALLEW

Project Number
589A4-20-158

Building Number
14

Drawing Number
S-201
Dwg. # 14 of 94

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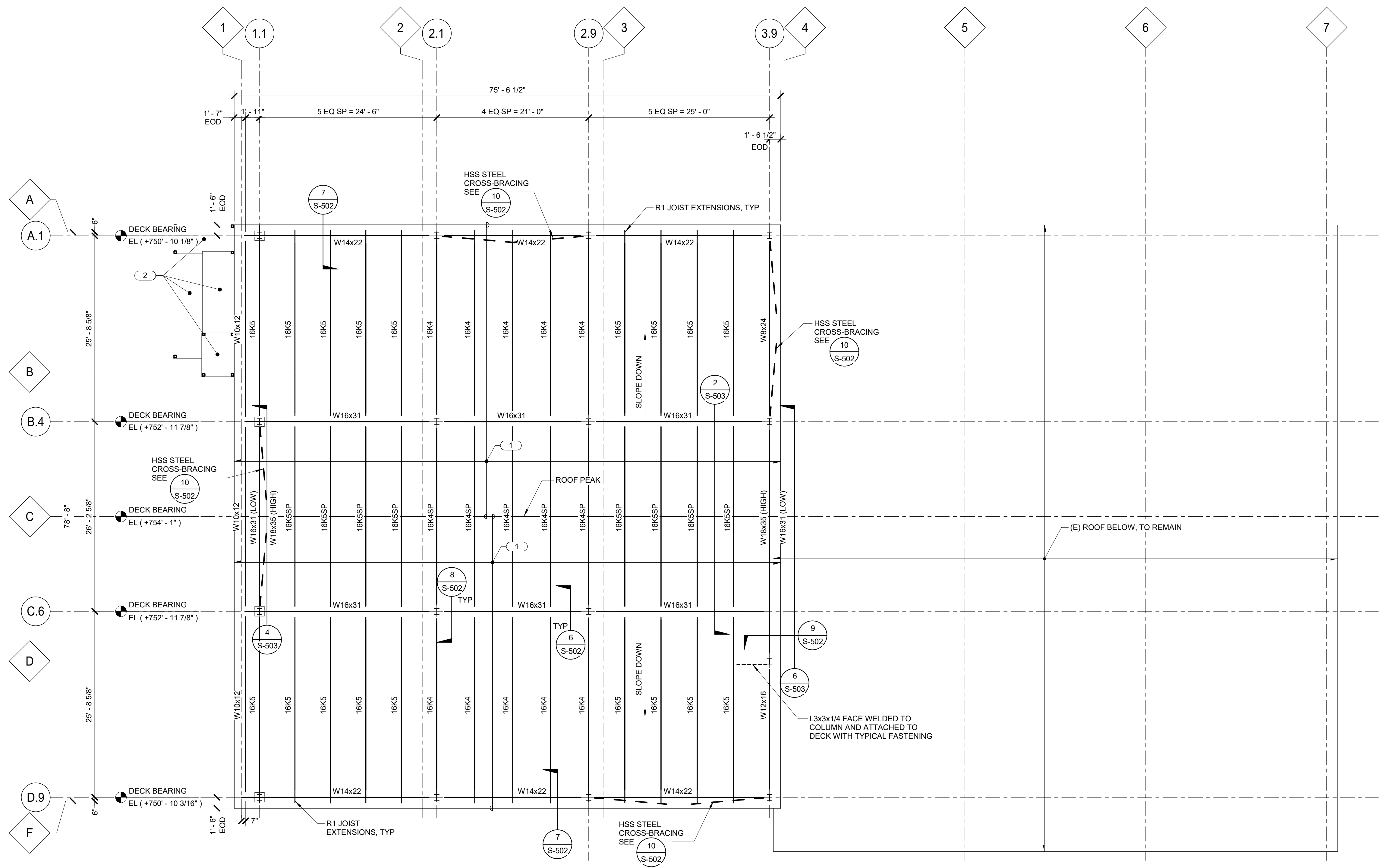
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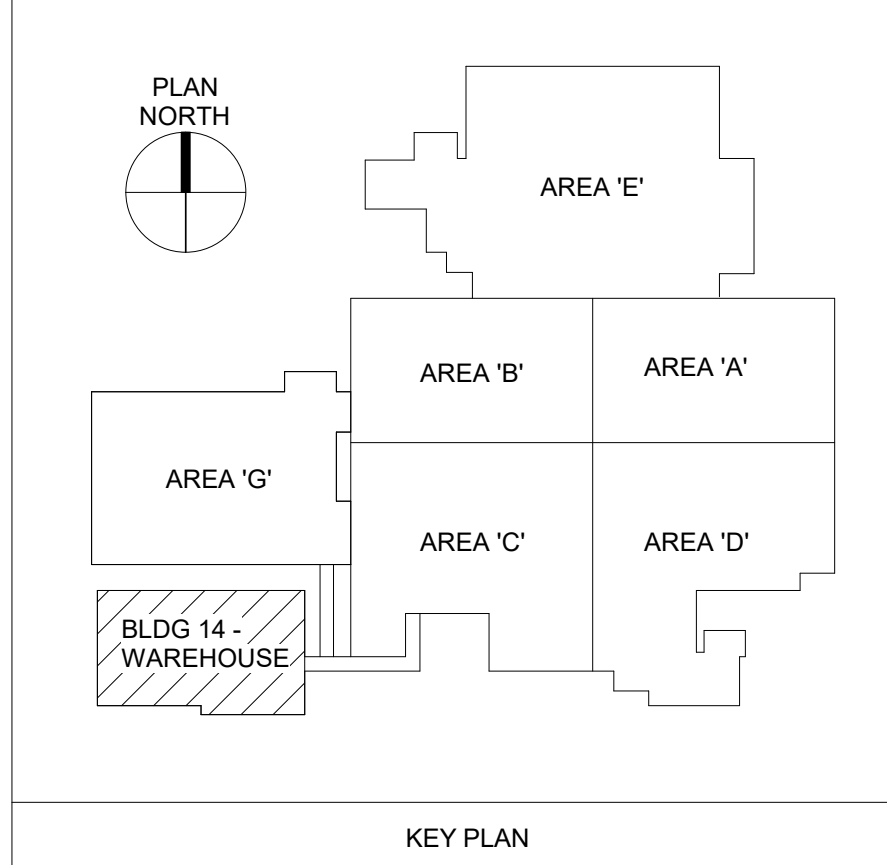
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- NOTES:**
- REFER TO 4 OR 5/S-502 FOR TYPICAL STEEL BEAM SHEAR CONNECTION.
 - REFER TO ARCHITECTURAL AND FOUNDATION DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
 - SEE PLAN FOR DECK BEARING ELEVATION. TYPICAL JOIST SEAT TO BE 3 1/2".
 - PROVIDE ANGLE FRAME AROUND ROOF OPENINGS PER 2/S-502. COORDINATE LOCATIONS WITH ARCHITECTURAL AND MEP PLANS.
 - REFER TO ARCHITECTURAL PLANS FOR SIZE, EXTENTS, AND LOCATIONS FOR NEW OPENINGS IN EXISTING NON-LOAD BEARING MASONRY WALLS. PROVIDE STEEL ANGLE LINTELS PER GENERAL NOTES ON SHEET S-001.
 - SEE DETAIL 2/S-503 FOR SPECIAL JOIST ELEVATION.

- KEYNOTES:** (#)
- 1.5B 20GA WIDE RIB ROOF DECK, ATTACHED TO SUPPORTS WITH 36/4 (2) PATTERN. DECK BEARING ELEVATION VARIES - SEE PLAN. SEE 1/S-502 FOR DETAILS.
 - PRE-FINISHED METAL PANEL CANOPY OVER THE EXTERIOR STEEL STAIRS, TO BE DESIGNED AND INSTALLED BY THE CONTRACTOR. STAIR CANOPY TO BE STRUCTURALLY INDEPENDENT FROM THE PRIMARY FRAMING. CANOPY TO BE DESIGNED TO SUPPORT SNOW LOADS. REFER TO S-001 FOR DESIGN CRITERIA, AND REFER TO SPECIFICATION SECTION 05 51 00 FOR ADDITIONAL INFORMATION PERTAINING TO METAL STAIRS.



1 ROOF FRAMING PLAN
1/8" = 1'-0"



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Professional Engineer
No. 000000000
3-22-2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
ROOF FRAMING PLAN

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

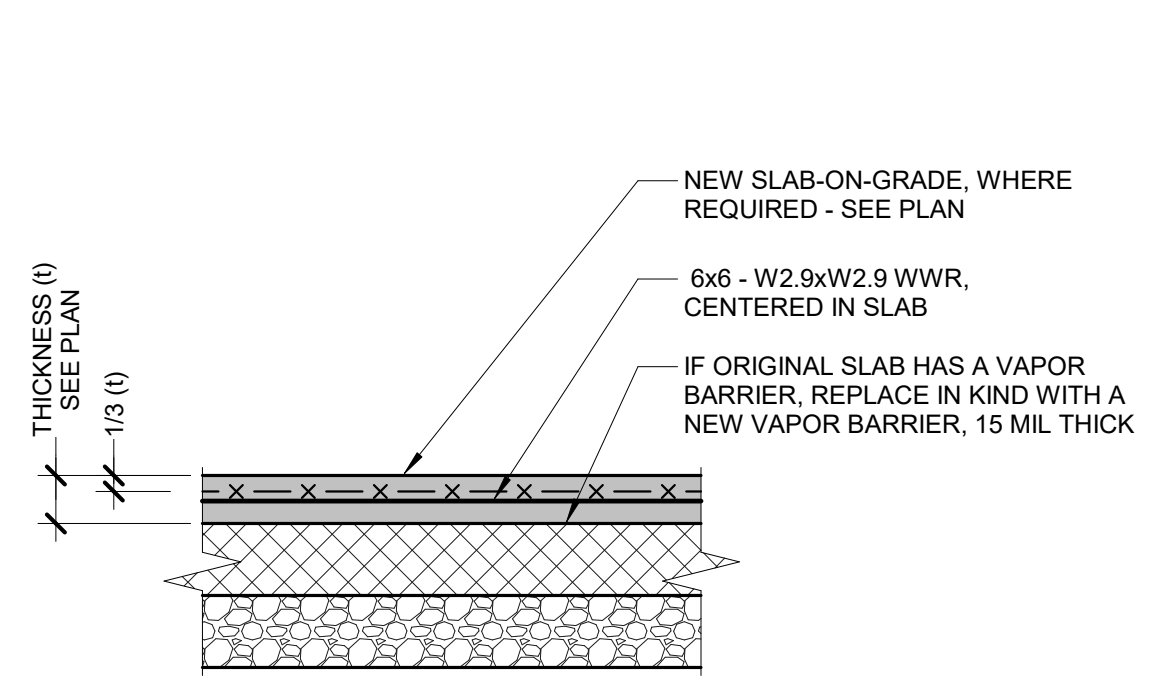
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Project Number
589A4-20-158

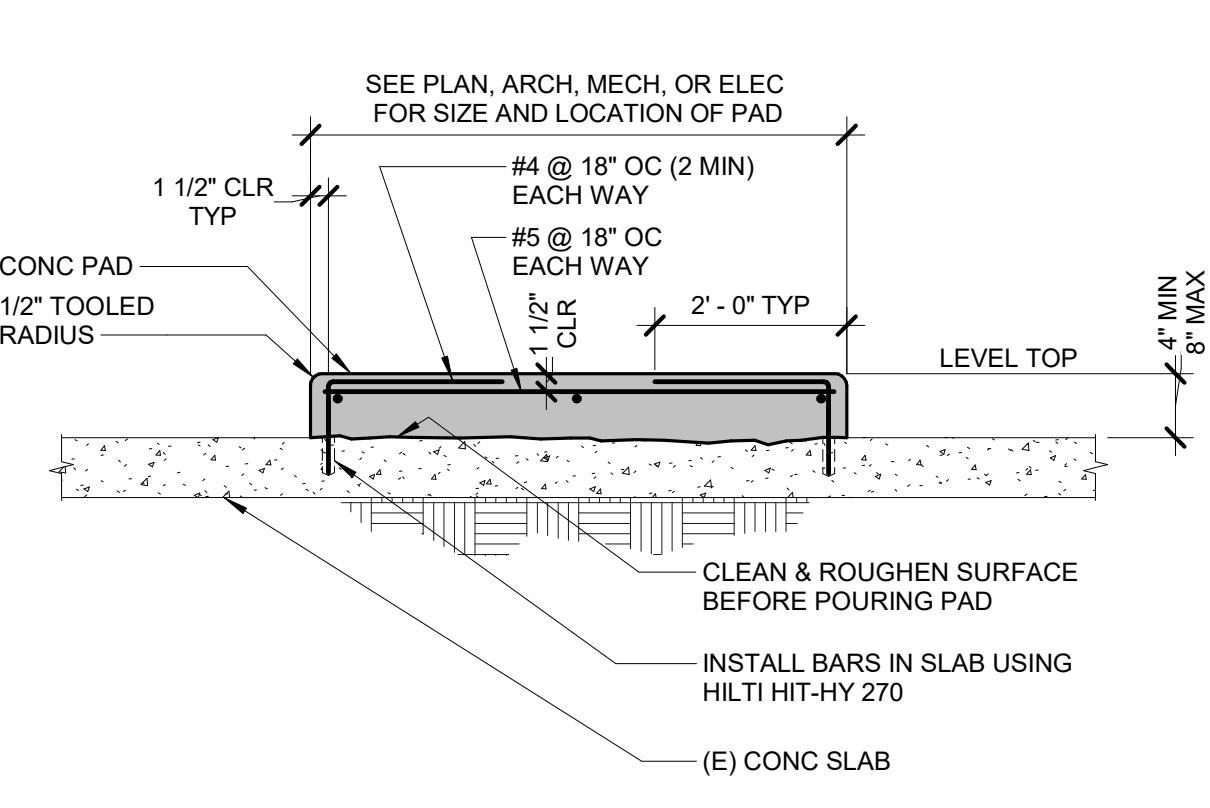
Building Number
14

Drawing Number
S-202
Dwg. # 15 of 94

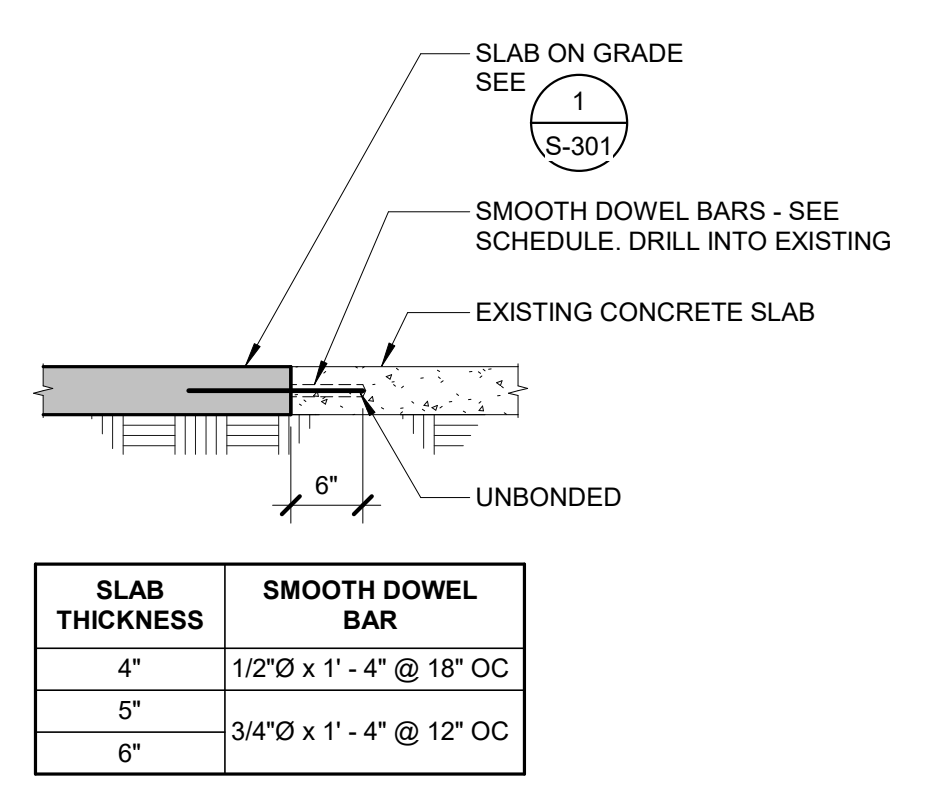


NOTES:
1. THIS DETAIL MAY BE USED FOR REPLACEMENT SLAB-ON-GRADE CONSTRUCTION AS REQUIRED.

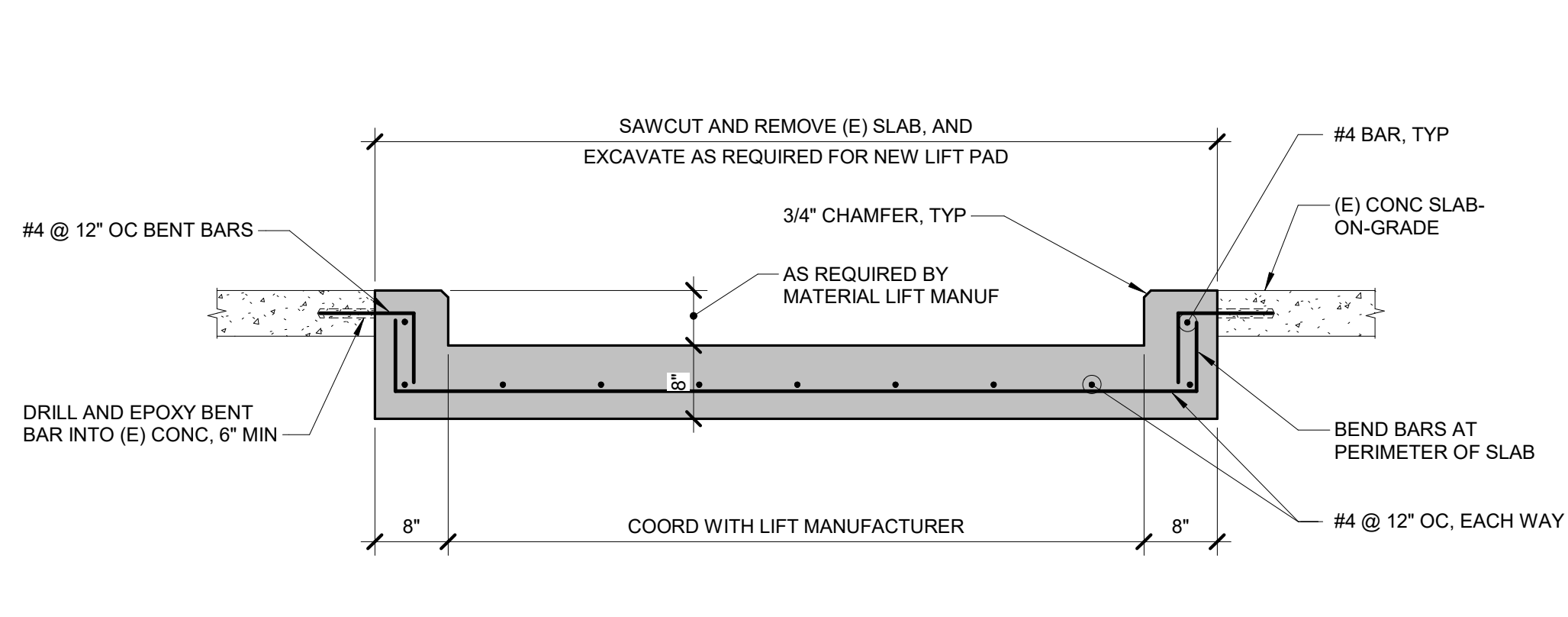
1 TYPICAL SLAB CONSTRUCTION
3/4" = 1'-0"



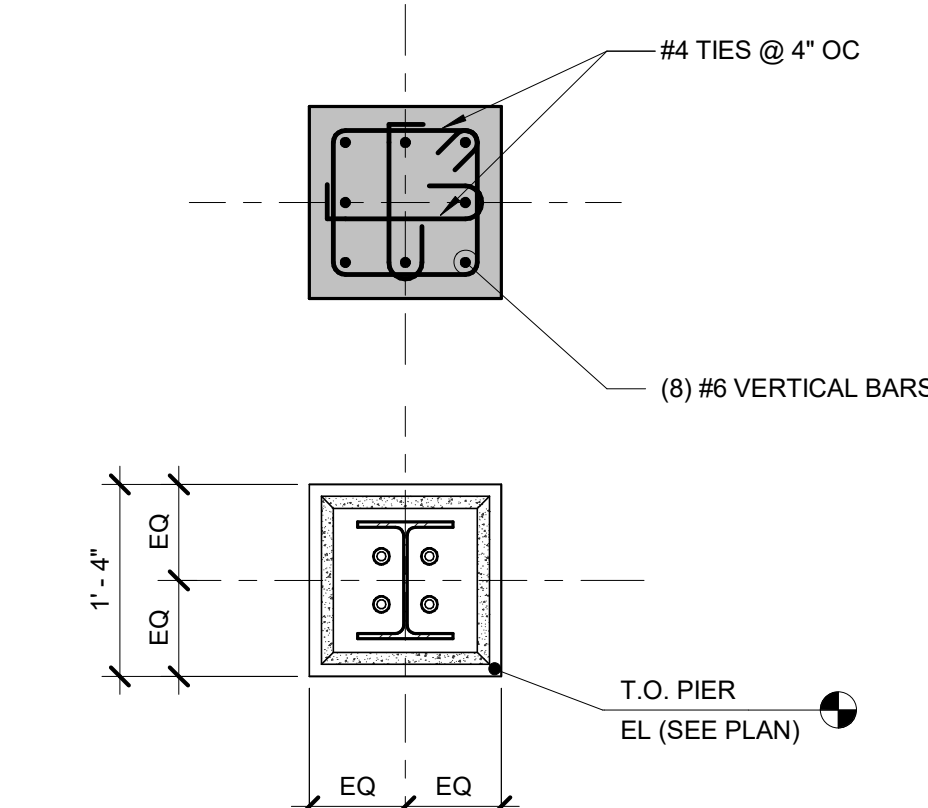
2 CONCRETE EQUIPMENT PAD AT EXISTING DETAIL
3/4" = 1'-0"



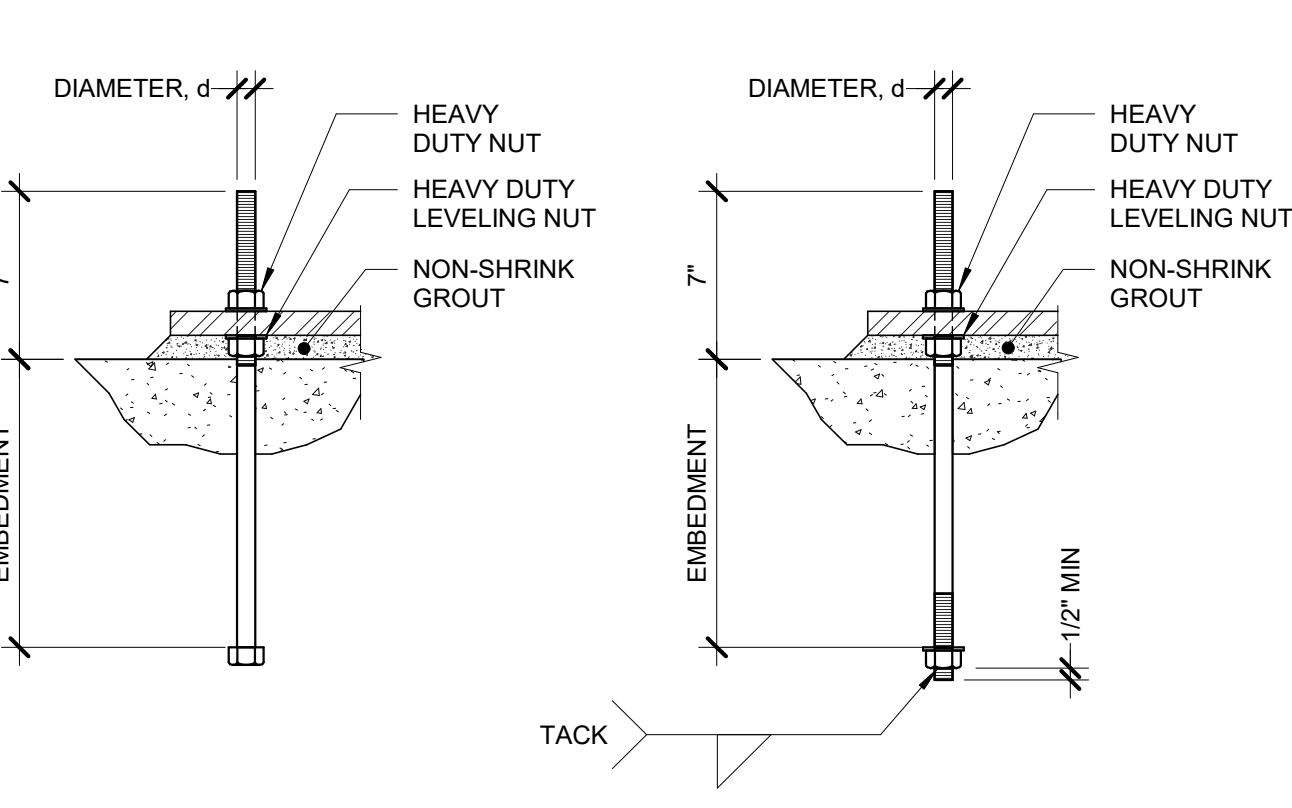
3 NEW TO EXISTING SLAB DETAIL
3/4" = 1'-0"



4 MATERIAL LIFT FOUNDATION
3/4" = 1'-0"

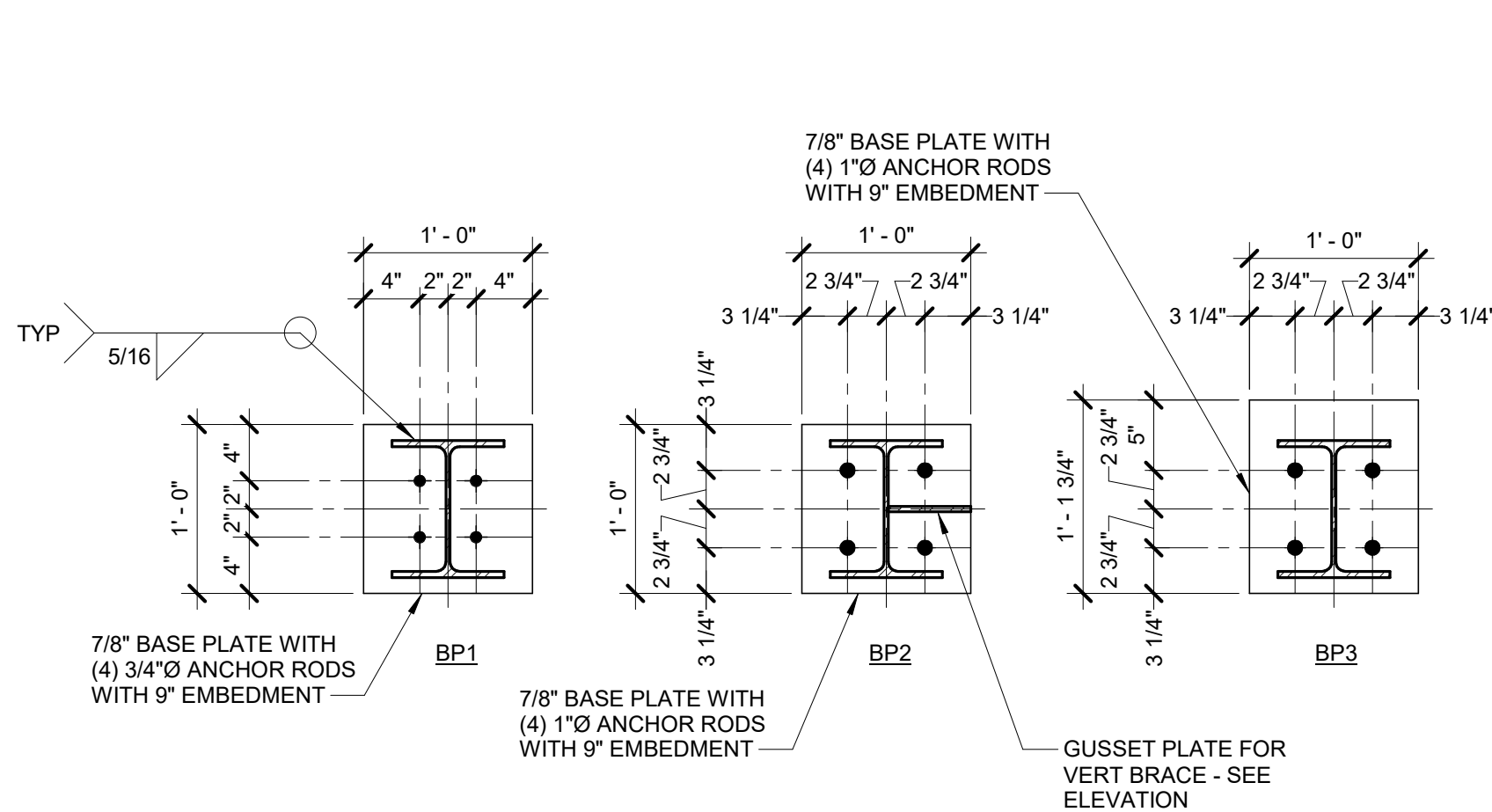


5 PIER (P1) DETAIL
3/4" = 1'-0"



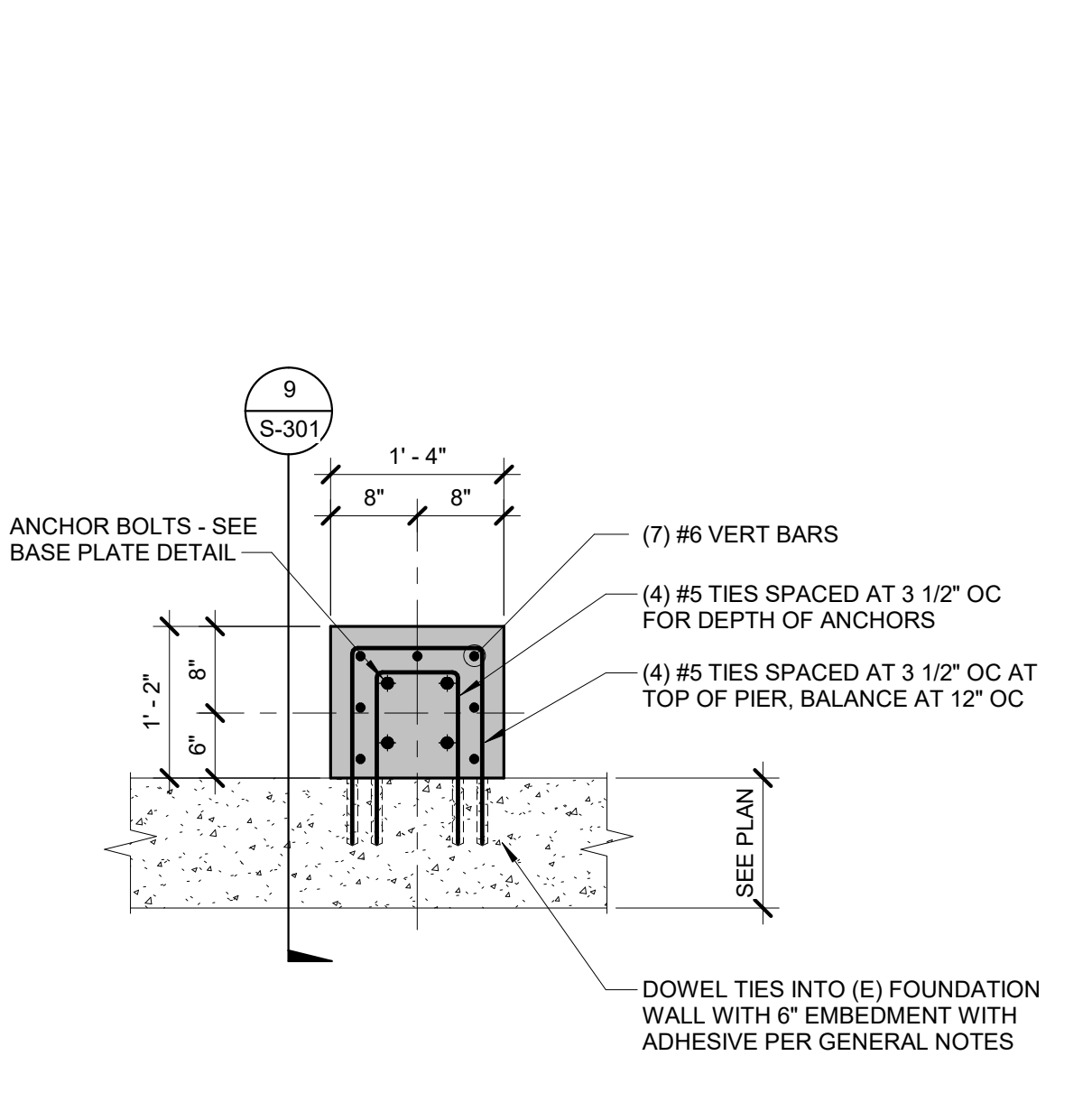
NOTES:
1. REFERENCE BASE PLATE DETAILS FOR DIAMETER AND EMBEDMENT.
2. REFERENCE GENERAL NOTES FOR MATERIAL REQUIREMENTS.
3. ANCHOR RODS SHALL BE SET PRIOR TO PLACEMENT OF CONCRETE.
4. PROTECT ANCHOR RODS FROM DAMAGE.
5. SET ANCHOR RODS PERPENDICULAR TO BEARING SURFACE, UNLESS NOTED OTHERWISE.
6. PROVIDE 1" NON-SHRINK GROUT AT ALL BASE PLATES.

6 TYPICAL ANCHOR ROD
1 1/2" = 1'-0"

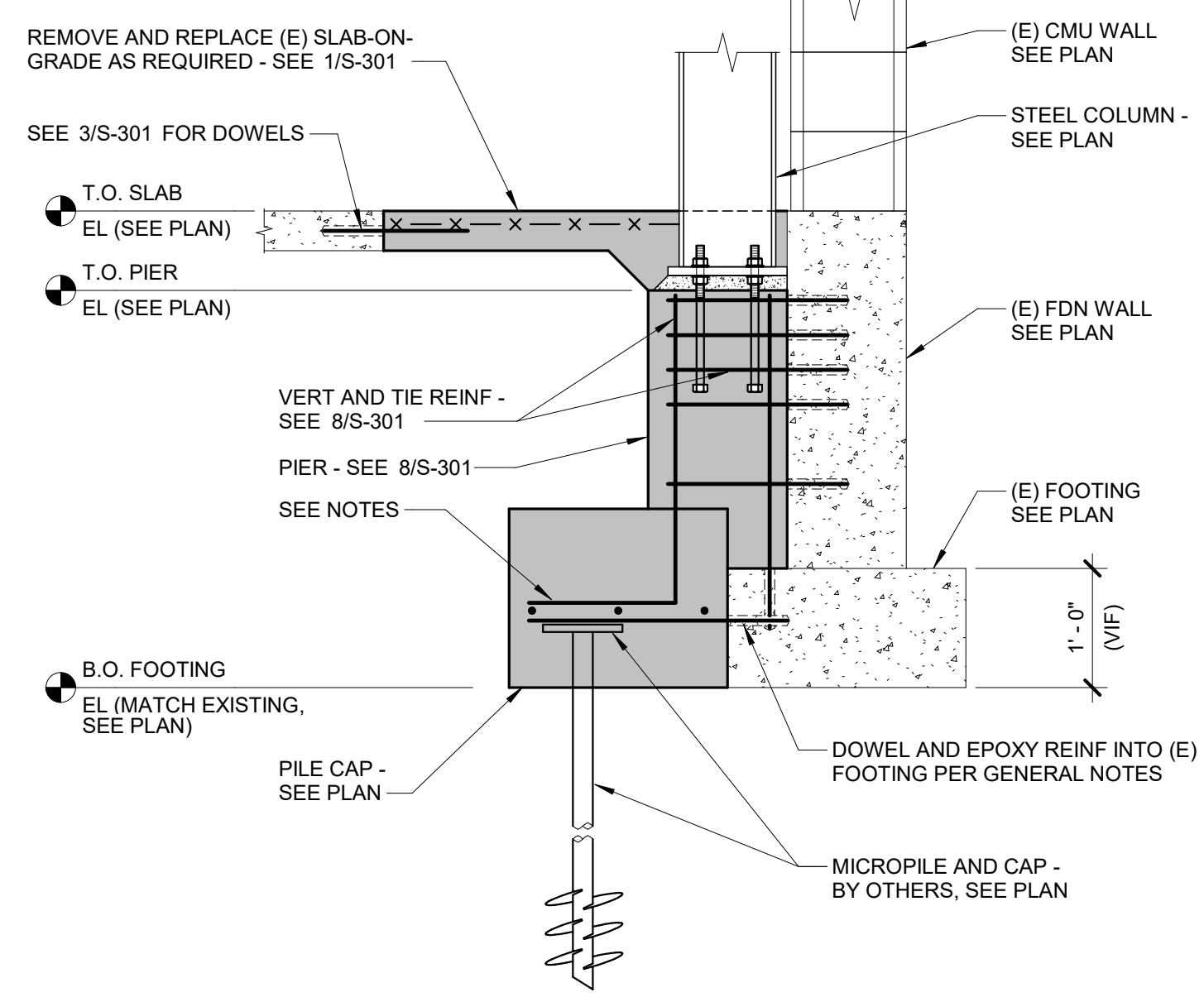


NOTE:
1. NO WELDS REQUIRED AT FLANGE TOES AND RADIIUSES.
2. REFER TO TYPICAL ANCHOR ROD DETAIL FOR ADDITIONAL INFORMATION.
3. CONTRACTOR TO ENSURE GROUT IS COMPLETELY INFILLED AROUND ANCHOR RODS UNDER BASE PLATE.
4. SEE 6/S-301 FOR TYPICAL ANCHOR ROD.

7 BASE PLATE DETAILS
1" = 1'-0"

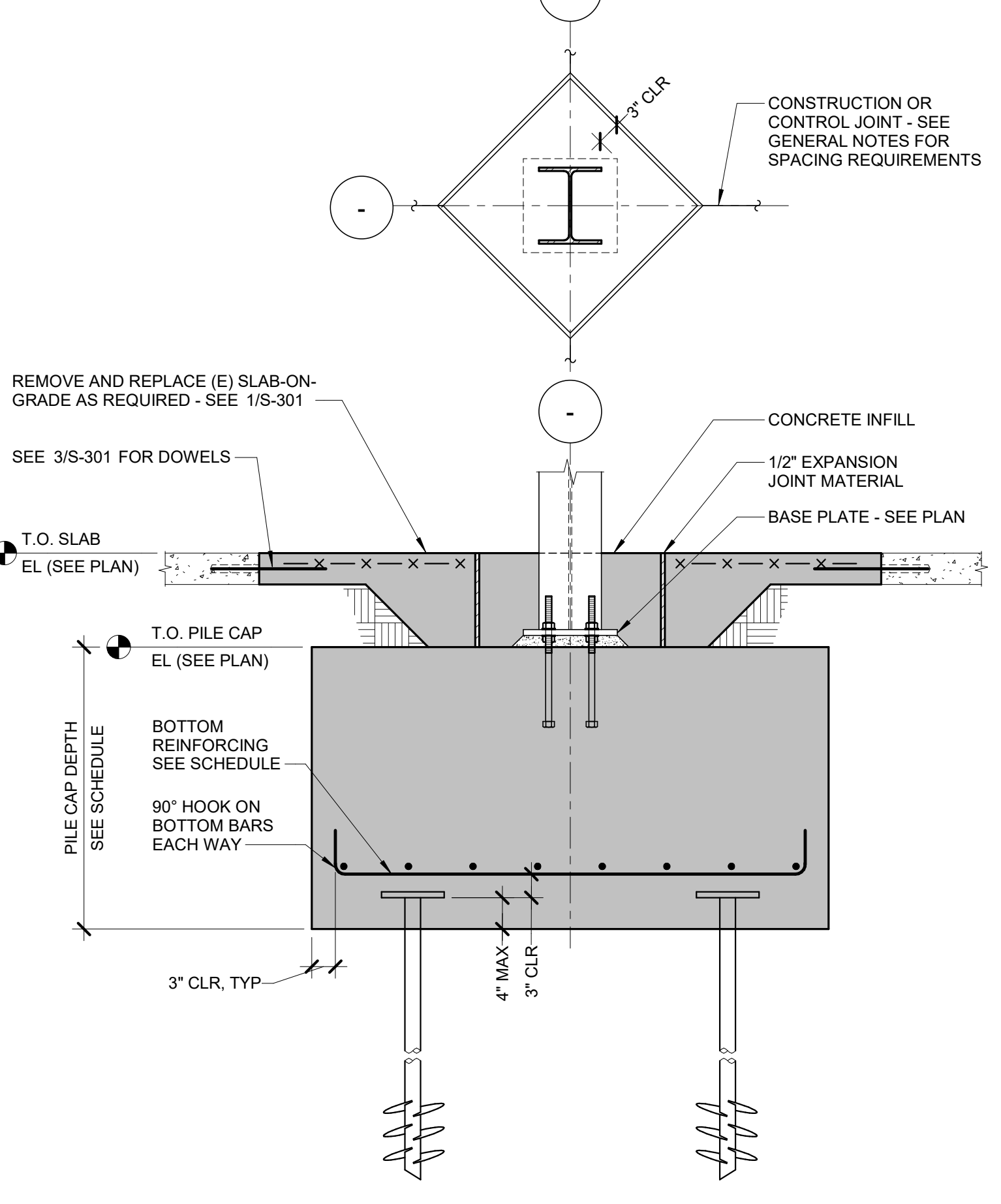


8 PIER P2 DETAIL
3/4" = 1'-0"

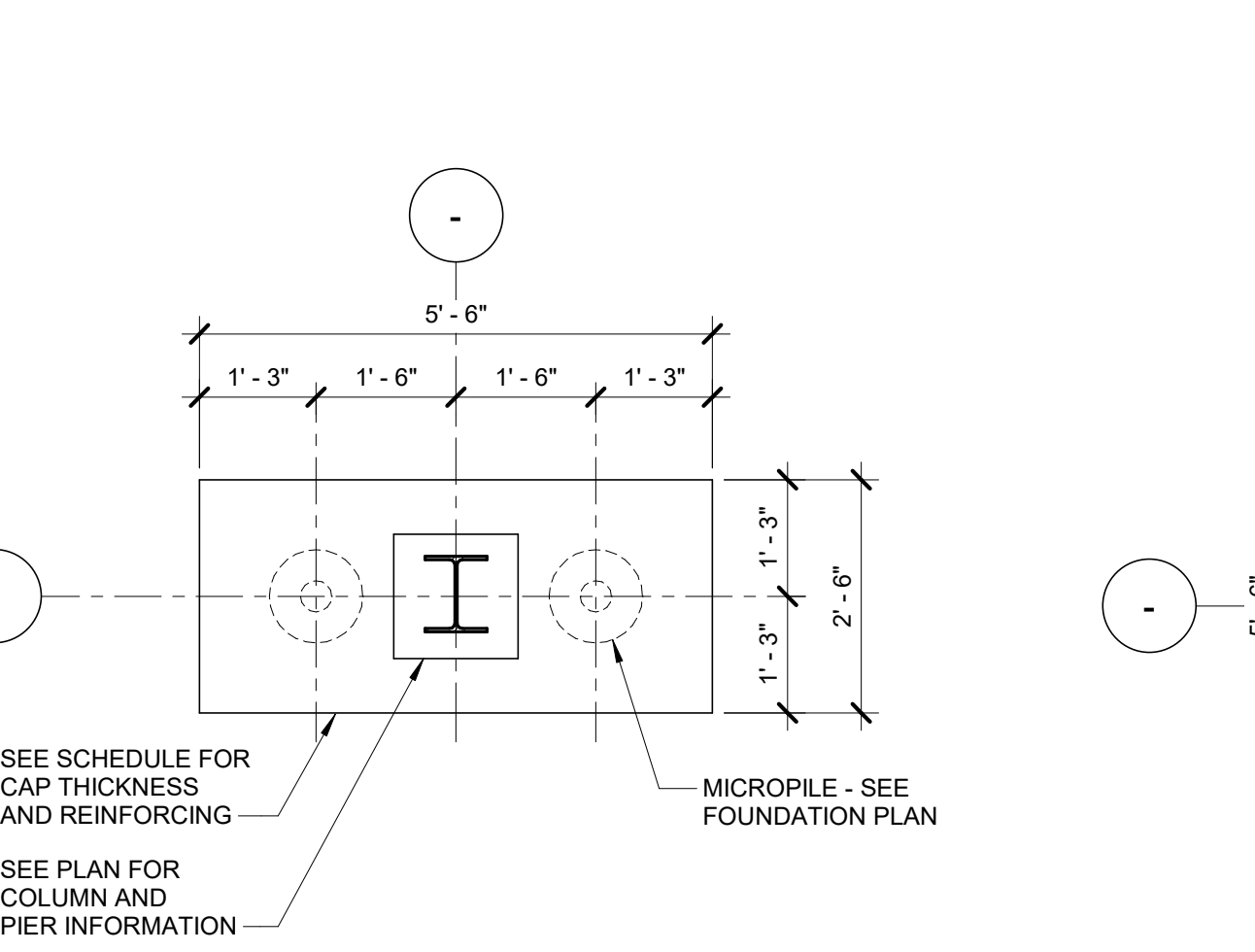


NOTES:
1. WHERE VERTICAL BARS OCCUR OVER A NEW FOOTING OR PILE CAP, PROVIDE HOOKED BARS.
2. WHERE VERTICAL BARS OCCUR OVER AN EXISTING FOOTING, DRILL AND EPOXY INTO EXISTING CONCRETE, 8" MINIMUM.

9 FOOTING DETAIL
3/4" = 1'-0"

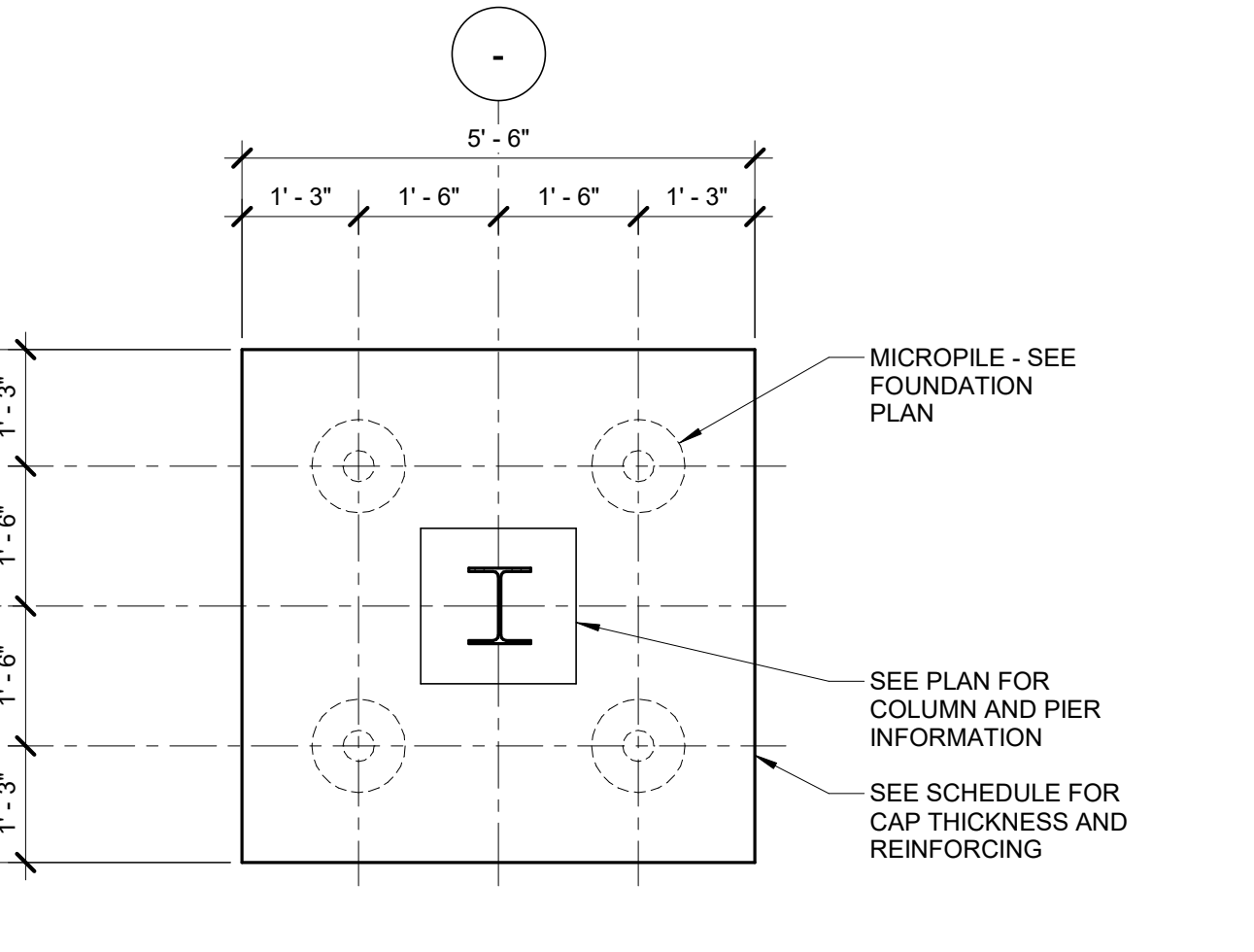


10 INTERIOR PILE CAP SECTION
3/4" = 1'-0"



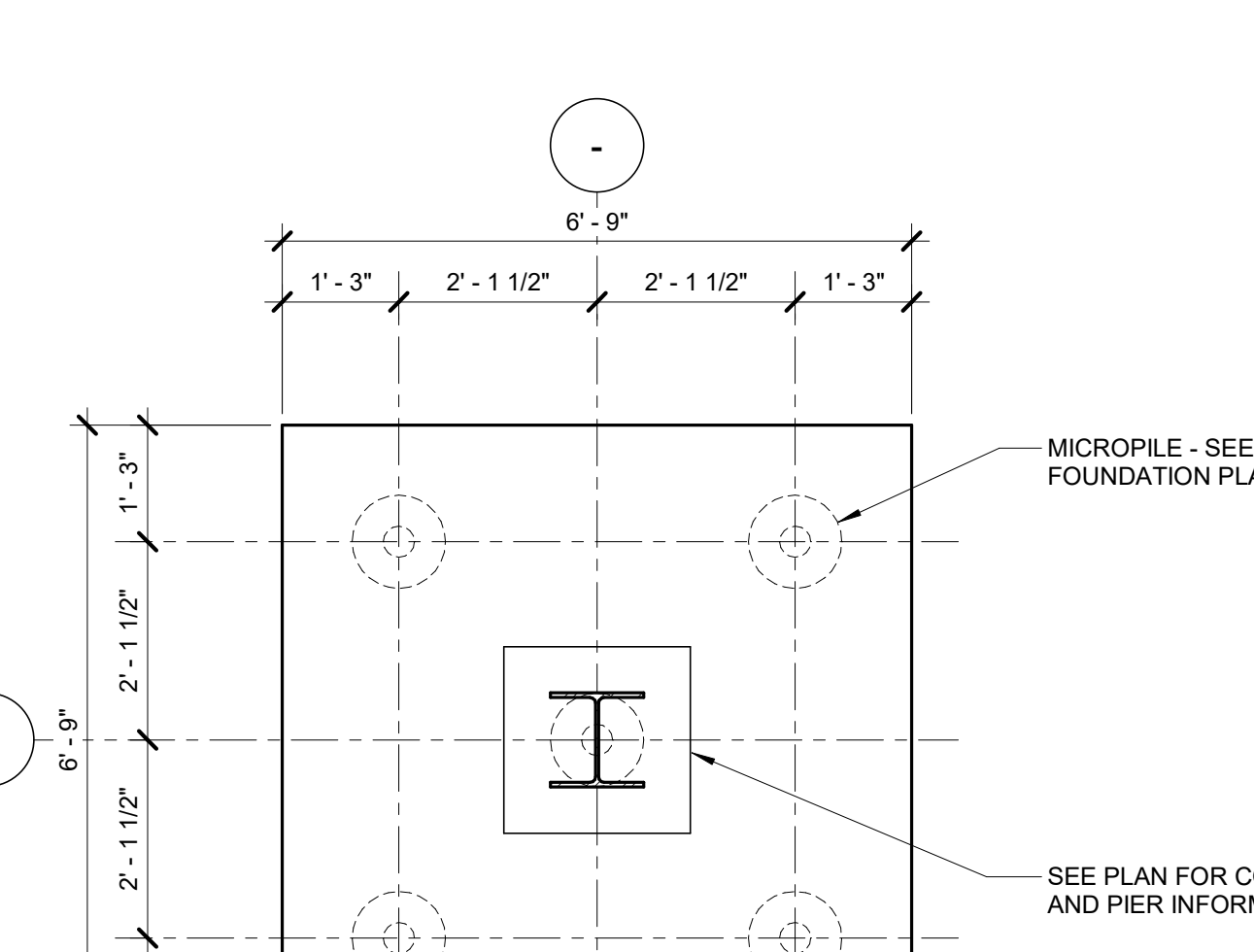
NOTES:
1. AT SIM, PILE CAP IS TO BE DOWELED INTO AN EXISTING FOOTING. SEE PLAN AND 9/S-301. ADJUST THE POSITION OF THE PILE CAP RELATIVE TO THE COLUMN LOCATION AS REQUIRED BY CONFIGURATION OF THE EXISTING FOOTING, BUT DO NOT PLACE MICROPILES CLOSER THAN WHAT IS SHOWN.

11 2-PILE CAP DETAIL
1/2" = 1'-0"



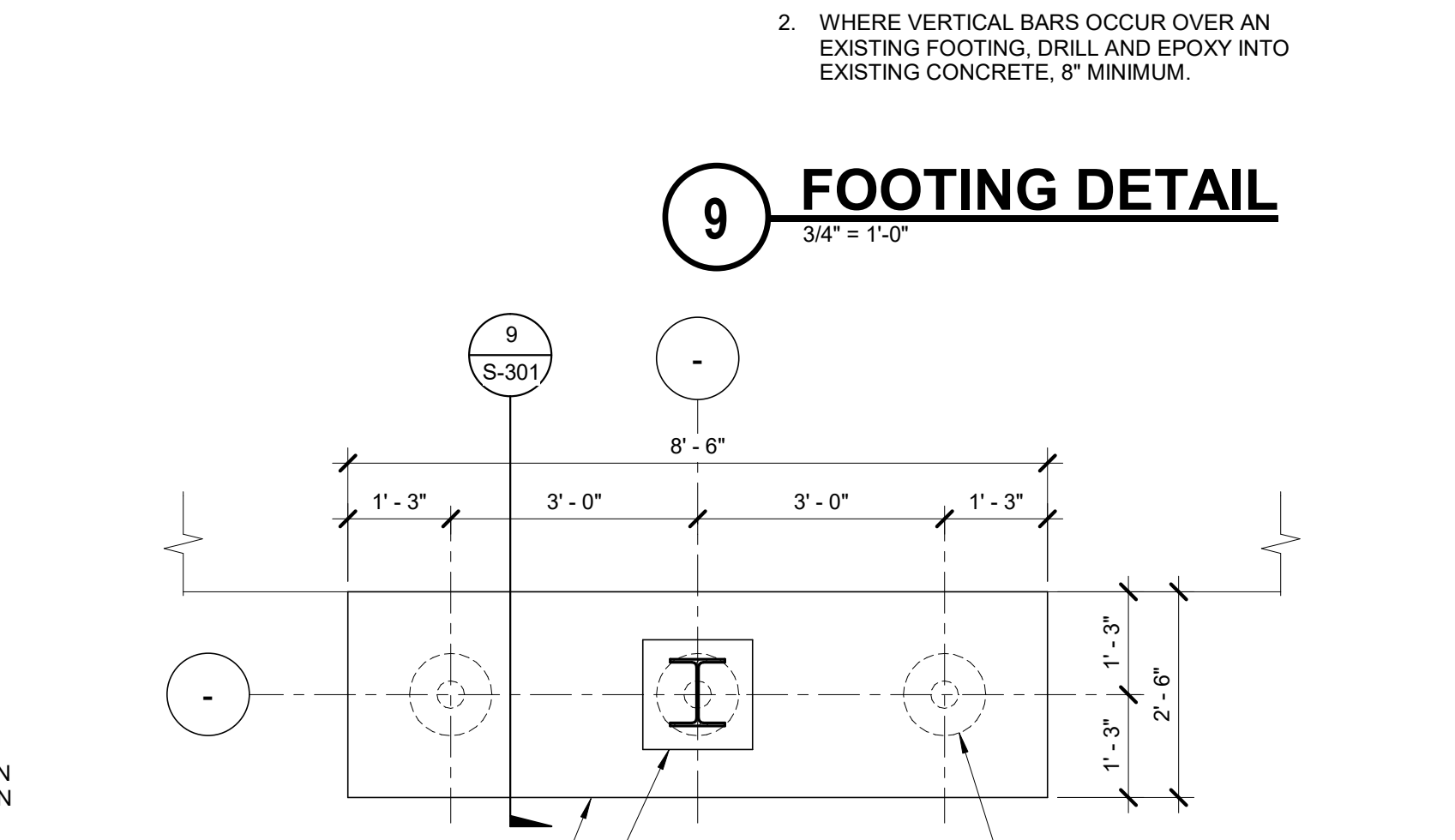
NOTES:
1. AT SIM, PILE CAP IS TO BE DOWELED INTO AN EXISTING FOOTING. SEE PLAN AND 9/S-301. ADJUST THE POSITION OF THE PILE CAP RELATIVE TO THE COLUMN LOCATION AS REQUIRED BY CONFIGURATION OF THE EXISTING FOOTING, BUT DO NOT PLACE MICROPILES CLOSER THAN WHAT IS SHOWN.

12 4-PILE CAP DETAIL
1/2" = 1'-0"



NOTES:
1. AT SIM, PILE CAP IS TO BE DOWELED INTO AN EXISTING FOOTING. SEE PLAN AND 9/S-301. ADJUST THE POSITION OF THE PILE CAP RELATIVE TO THE COLUMN LOCATION AS REQUIRED BY CONFIGURATION OF THE EXISTING FOOTING, BUT DO NOT PLACE MICROPILES CLOSER THAN WHAT IS SHOWN.

13 5-PILE CAP DETAIL
1/2" = 1'-0"



NOTES:
1. AT SIM, PILE CAP IS TO BE DOWELED INTO AN EXISTING FOOTING. SEE PLAN AND 9/S-301. ADJUST THE POSITION OF THE PILE CAP RELATIVE TO THE COLUMN LOCATION AS REQUIRED BY CONFIGURATION OF THE EXISTING FOOTING, BUT DO NOT PLACE MICROPILES CLOSER THAN WHAT IS SHOWN.

14 3-PILE CAP DETAIL
1/2" = 1'-0"

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BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD
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a fire protection engineering firm

STAMP
MICHAEL L. ALBERSWERTH
3-22-2021

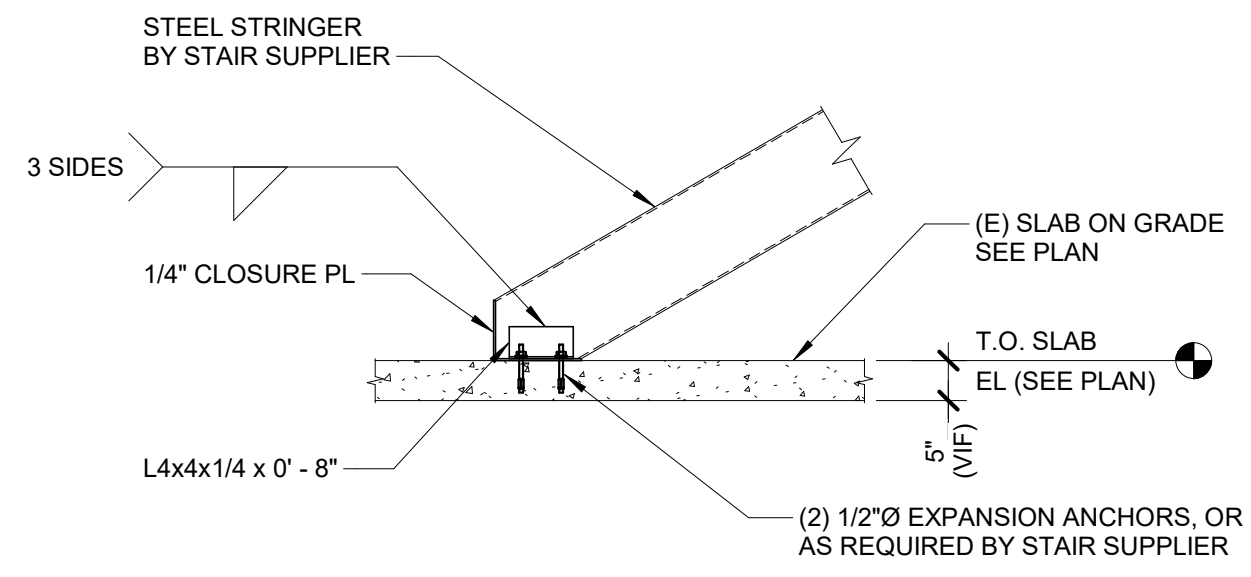
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: FOUNDATION SECTIONS AND DETAILS
Approved:

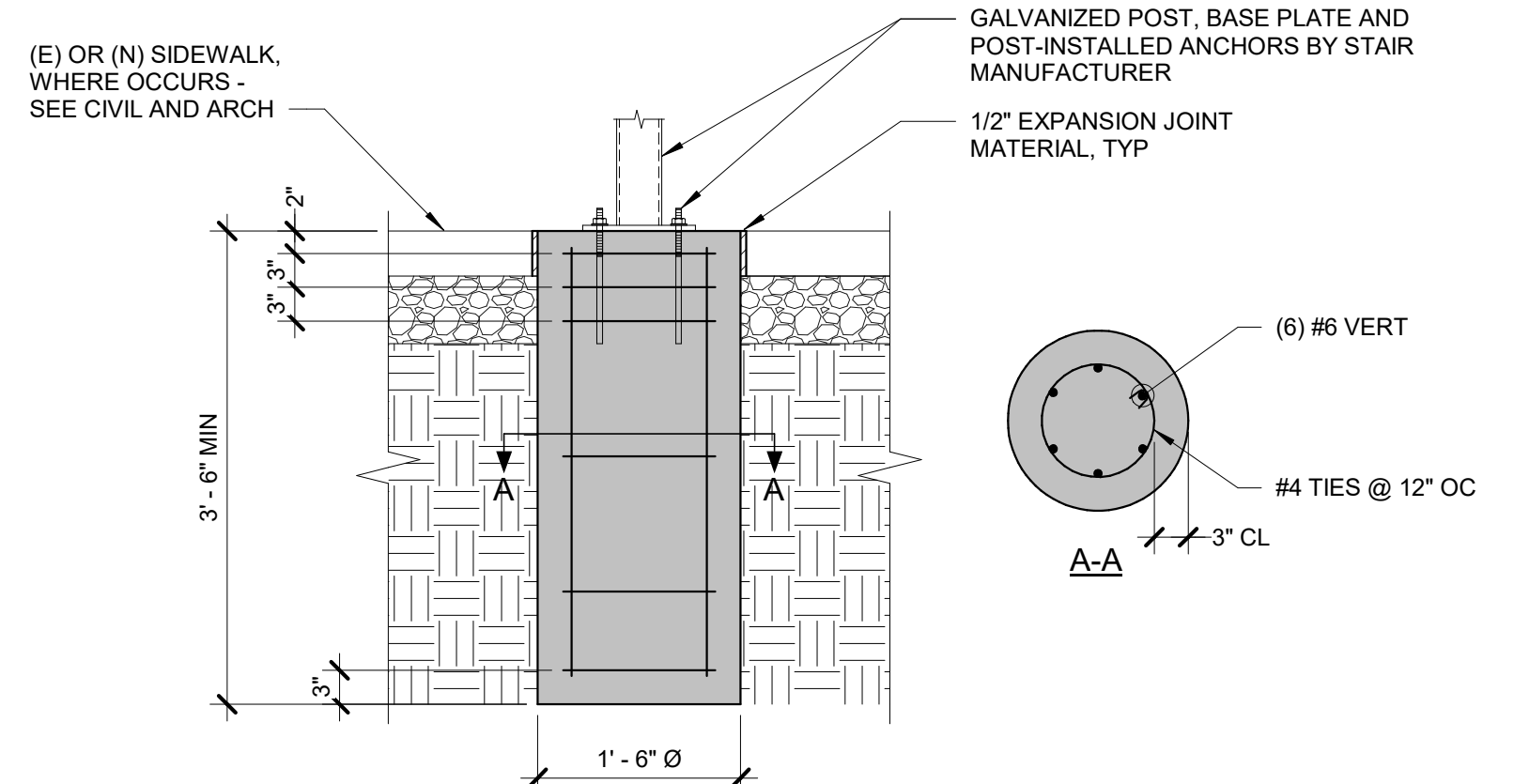
Phase: BID SET
FULLY SPRINKLERED

Project Title: RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS
Location: HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201
Issue Date: 03/24/2021
Checked: MICALB
Drawn: WALLEW

Project Number: 589A4-20-158
Building Number: 14
Drawing Number: S-301
Dwg. # 16 of 94

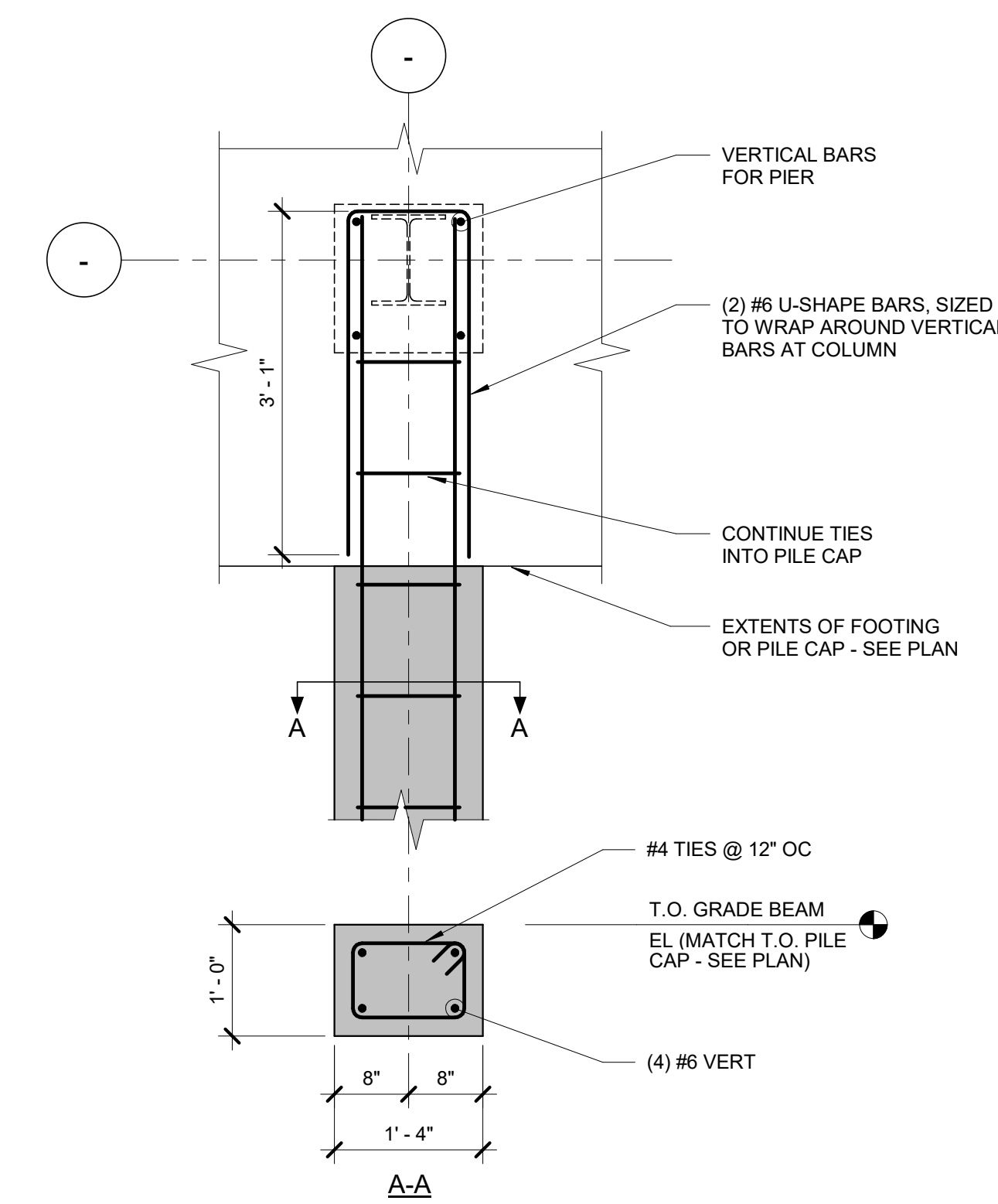


1 STAIR STRINGER CONNECTION TO SLAB
1/2" = 1'-0"

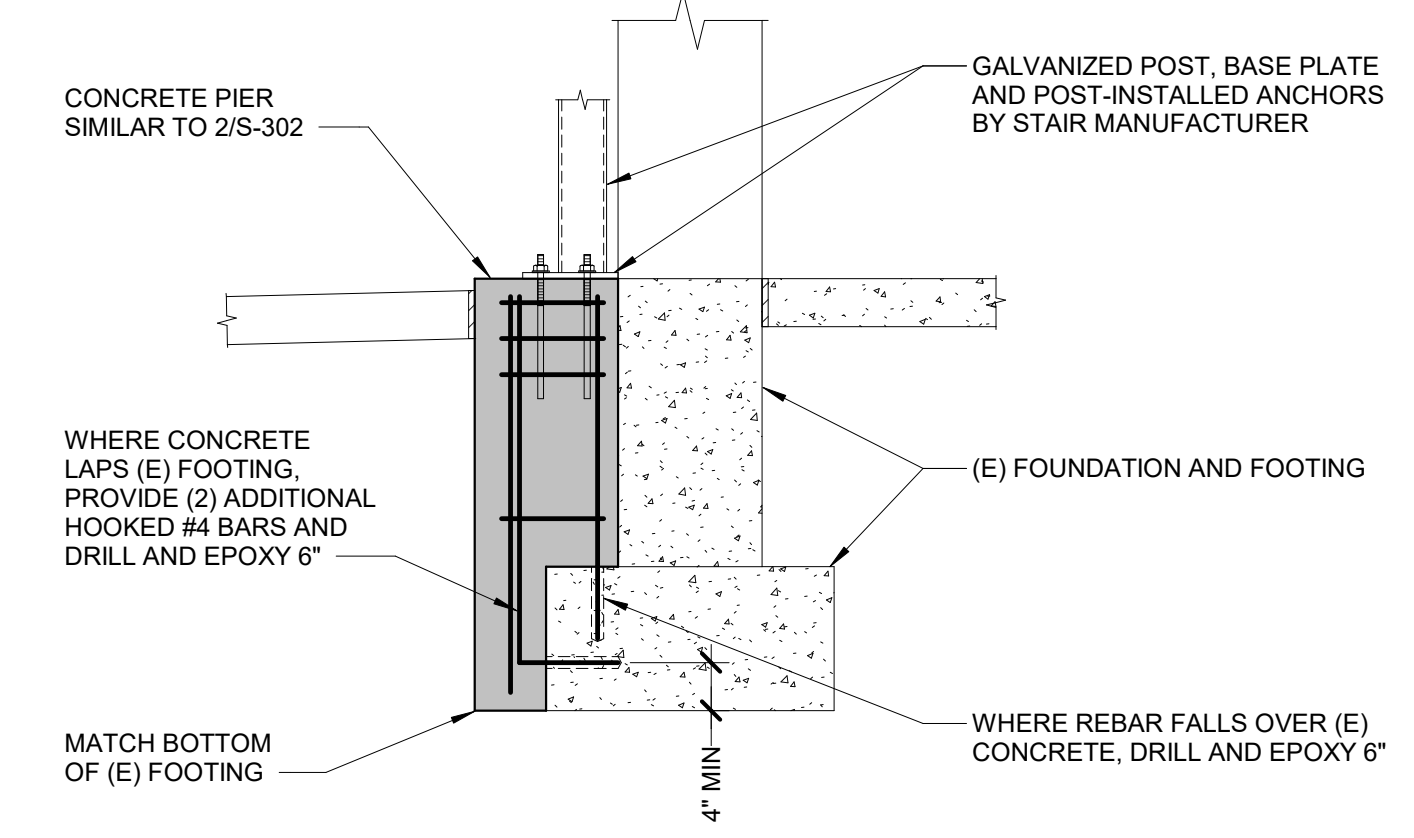


- NOTES:**
1. LOCATE ONE PIER AT EACH STAIR POST. COORDINATE LOCATION AND NUMBER OF POSTS WITH STAIR MANUFACTURER.
 2. INVESTIGATE AND LOCATE EXISTING UTILITIES AND FOUNDATIONS IN THE VICINITY OF THE NEW STAIR POSTS PRIOR TO DESIGNING STAIR OR FABRICATING ANY NEW STEEL. IF PROPOSED COLUMN LOCATIONS CONFLICT WITH EXISTING UTILITIES, ADJUSTMENTS IN THE STAIR LAYOUT MAY BE REQUIRED.
 3. IF NEW PIERS OCCUR OVER EXISTING FOOTINGS, DRILL AND EPOXY VERTICAL REINFORCEMENT INTO EXISTING CONCRETE, 6" MIN EMBEDMENT.

2 STEEL STAIR FOUNDATION DETAIL
3/4" = 1'-0"



3 GRADE BEAM DETAIL
3/4" = 1'-0"



4 STAIR FOUNDATION ADJACENT TO (E) FOOTING
3/4" = 1'-0"

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Revisions:	Date:

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Professional Engineer
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3-22-2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FOUNDATION SECTIONS AND DETAILS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
03/24/2021

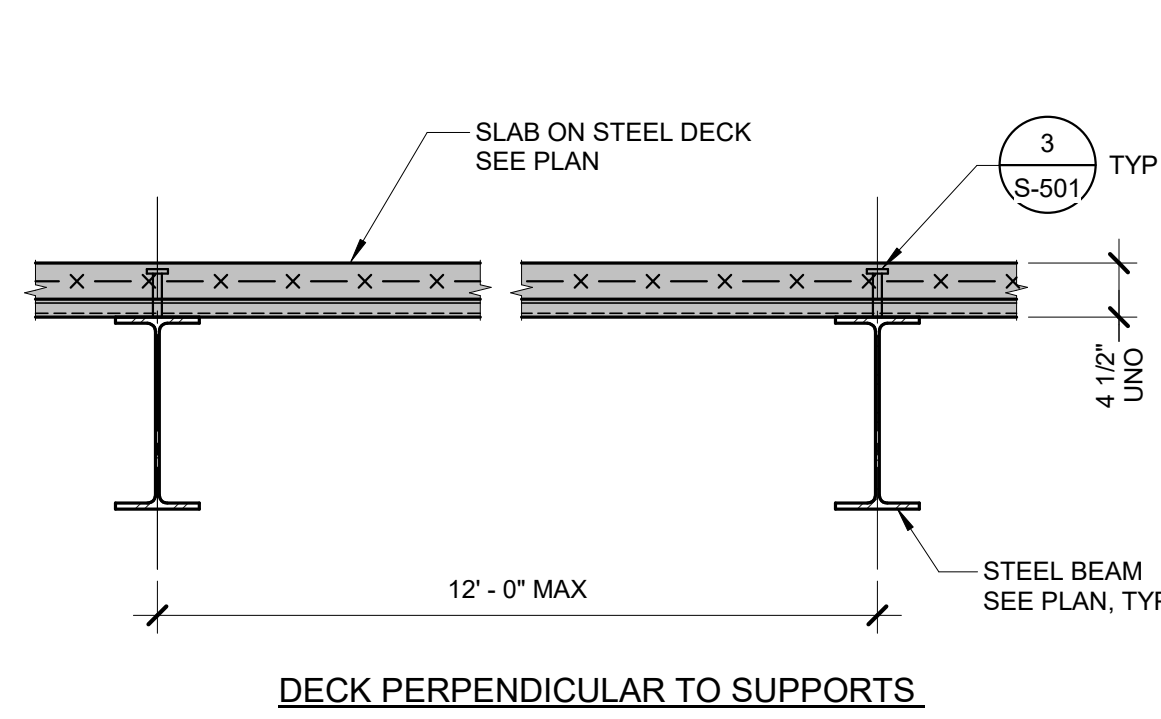
Checked
MICALB

Drawn
WALLEW

Project Number
589A4-20-158

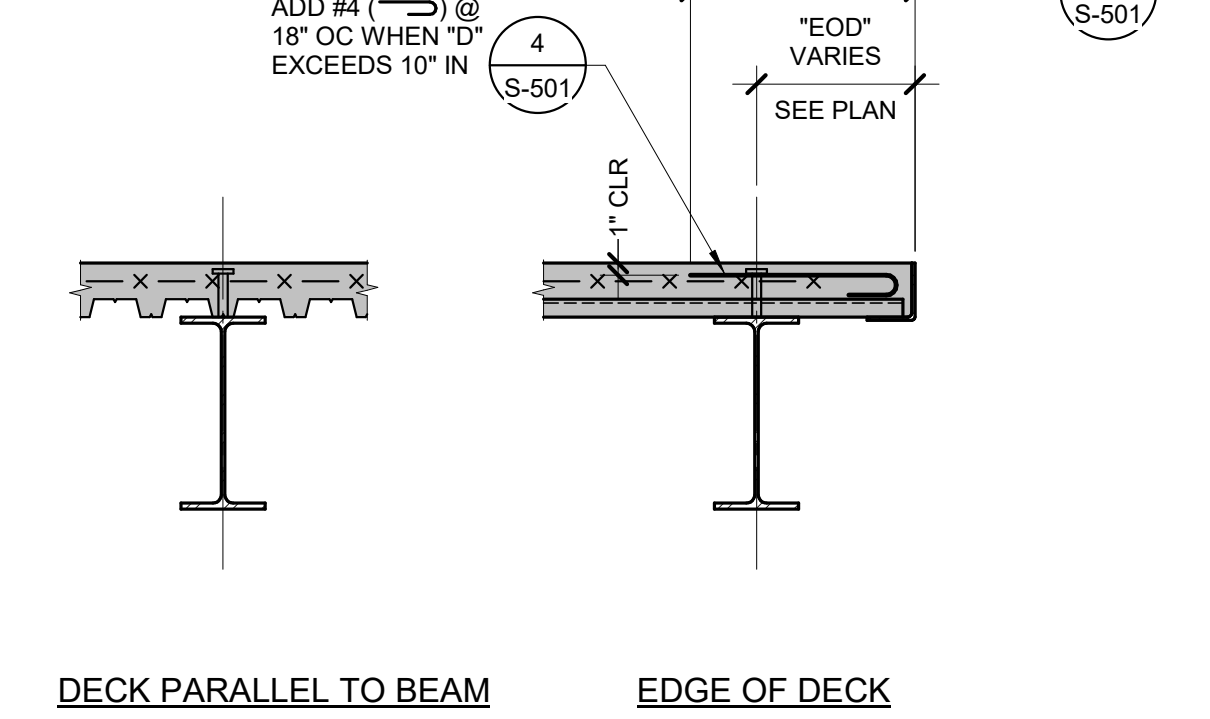
Building Number
14

Drawing Number
S-302
Dwg. # 17 of 94



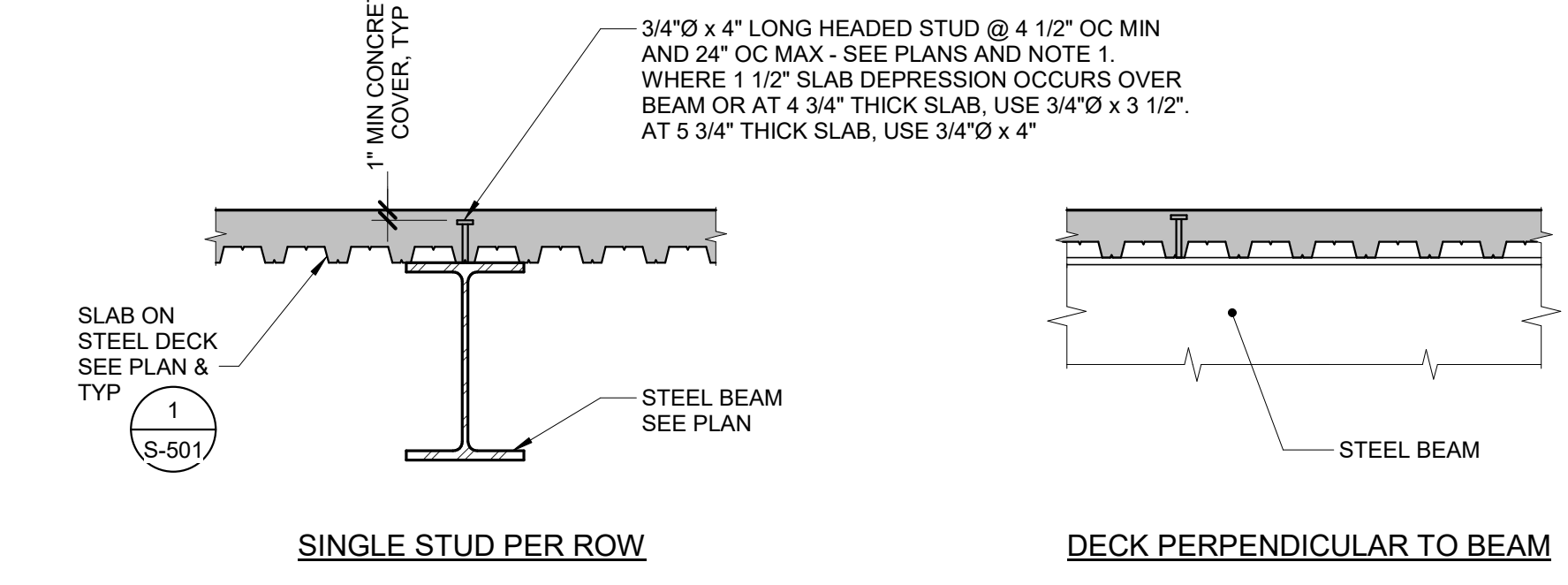
- NOTES:**
- NO CONDUITS ALLOWED IN SLAB.
 - FOR TYPICAL CONSTRUCTION JOINT DETAIL, SEE 1/S-104.
 - SEE GENERAL NOTES FOR ADDITIONAL DECK INFORMATION.

1 TYPICAL CONCRETE SLAB ON STEEL DECK DETAILS
3/4" = 1'-0"



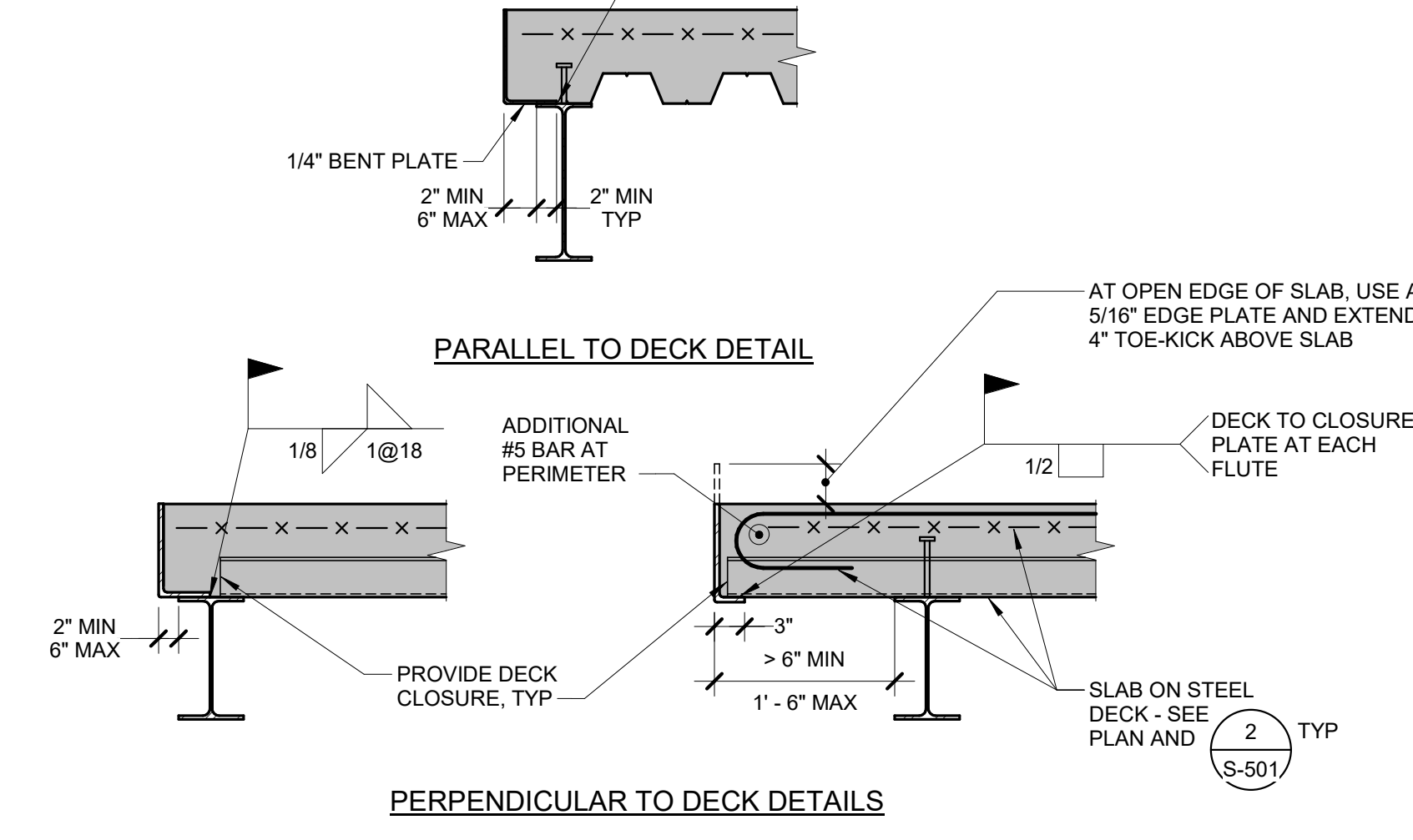
- DETAIL PARALLEL TO DECK SPAN**
- NOTE:**
- LOCATE JOINT MIN 6" TO MAX 1'-6" AWAY FROM GIRDER CENTERLINE.
- DETAIL PERPENDICULAR TO DECK SPAN**
- NOTE:**
- LOCATE JOINT AT DECK MIDSPAN BETWEEN BEAMS.

2 SLAB ON DECK CONSTRUCTION JOINT DETAILS
3/4" = 1'-0"



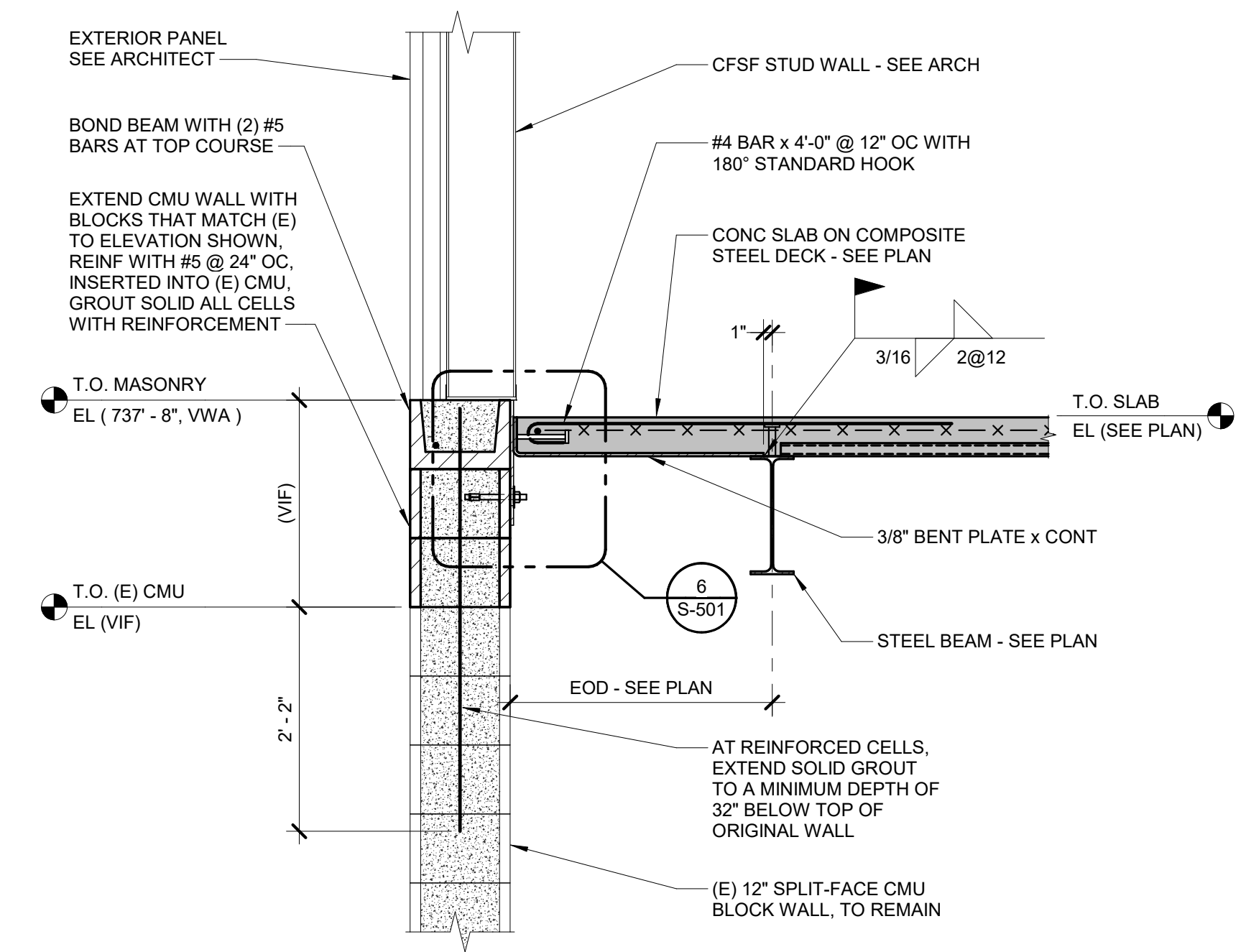
- STUD ANCHOR LEGEND**
- [8] INDICATES NUMBER OF EQUALLY SPACED STUD ANCHORS ON BEAM (SEE FRAMING PLANS). WHERE NO SYMBOL IS SHOWN, SEE NOTE 1.
- [] ONE SYMBOL INDICATES NUMBER OF STUD ANCHORS EQUALLY SPACED ALONG FULL LENGTH OF BEAM.
- NOTES:**
- IF NUMBER OF STUDS IS NOT SHOWN ON PLANS, PROVIDE A SINGLE ROW OF STUDS SPACED @ 1'-0" OC EXCEPT AT W8 & W10 BEAMS, PROVIDE @ 2'-0" OC CENTERED OVER BEAM WEB.
 - WHERE BEAM FLANGE THICKNESS IS LESS THAN 0.30", STUD ANCHOR MUST BE PLACED AT CENTER LINE OF BEAM.

3 SHEAR STUD LAYOUT DETAILS
3/4" = 1'-0"

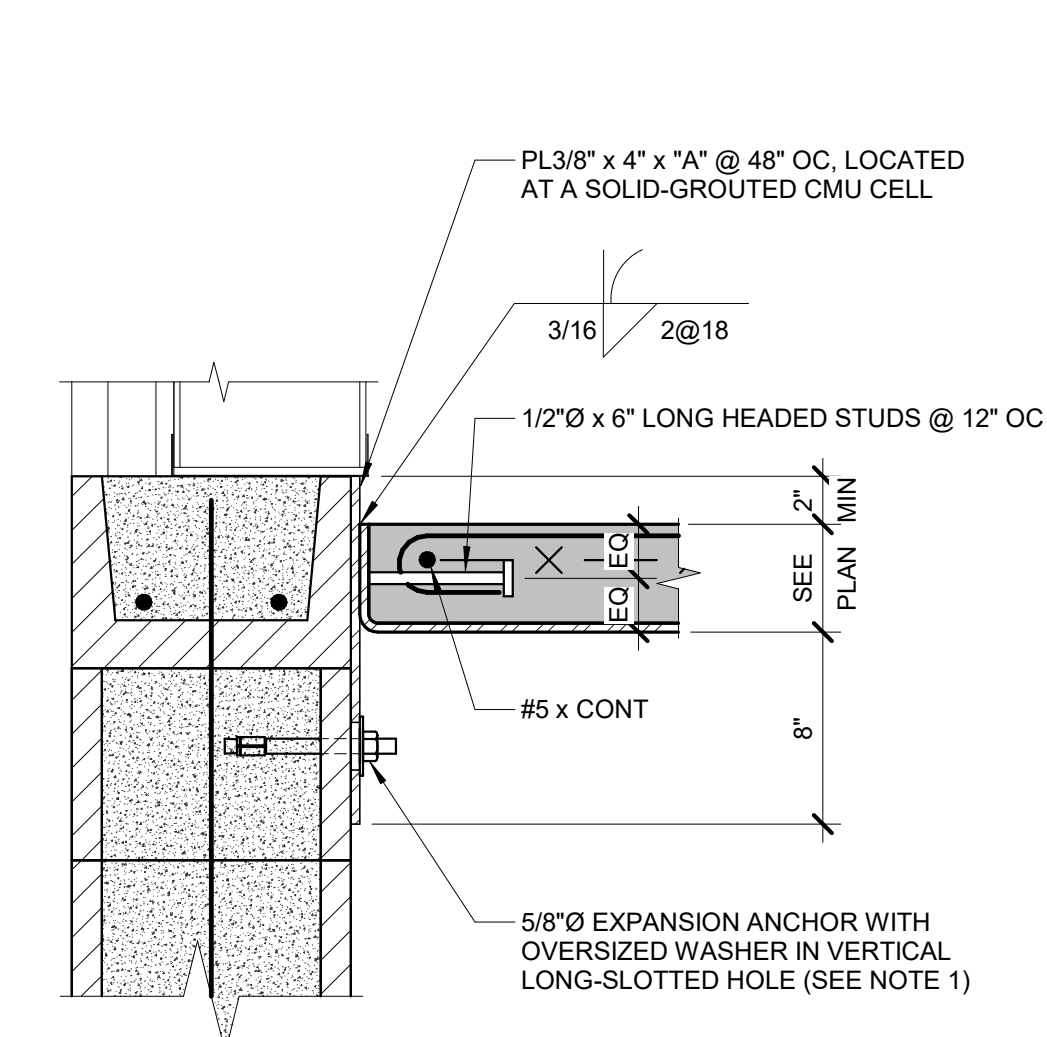


- PARALLEL TO DECK DETAIL**
- PERPENDICULAR TO DECK DETAILS**
- AT OPEN EDGE OF SLAB, USE A 5/16" EDGE PLATE AND EXTEND 4" TOE-KICK ABOVE SLAB.
- DECK TO CLOSURE PLATE AT EACH FLUTE.
- SLAB ON STEEL DECK - SEE PLAN AND 2 S-501

4 TYPICAL INTERIOR SLAB EDGE DETAILS
3/4" = 1'-0"

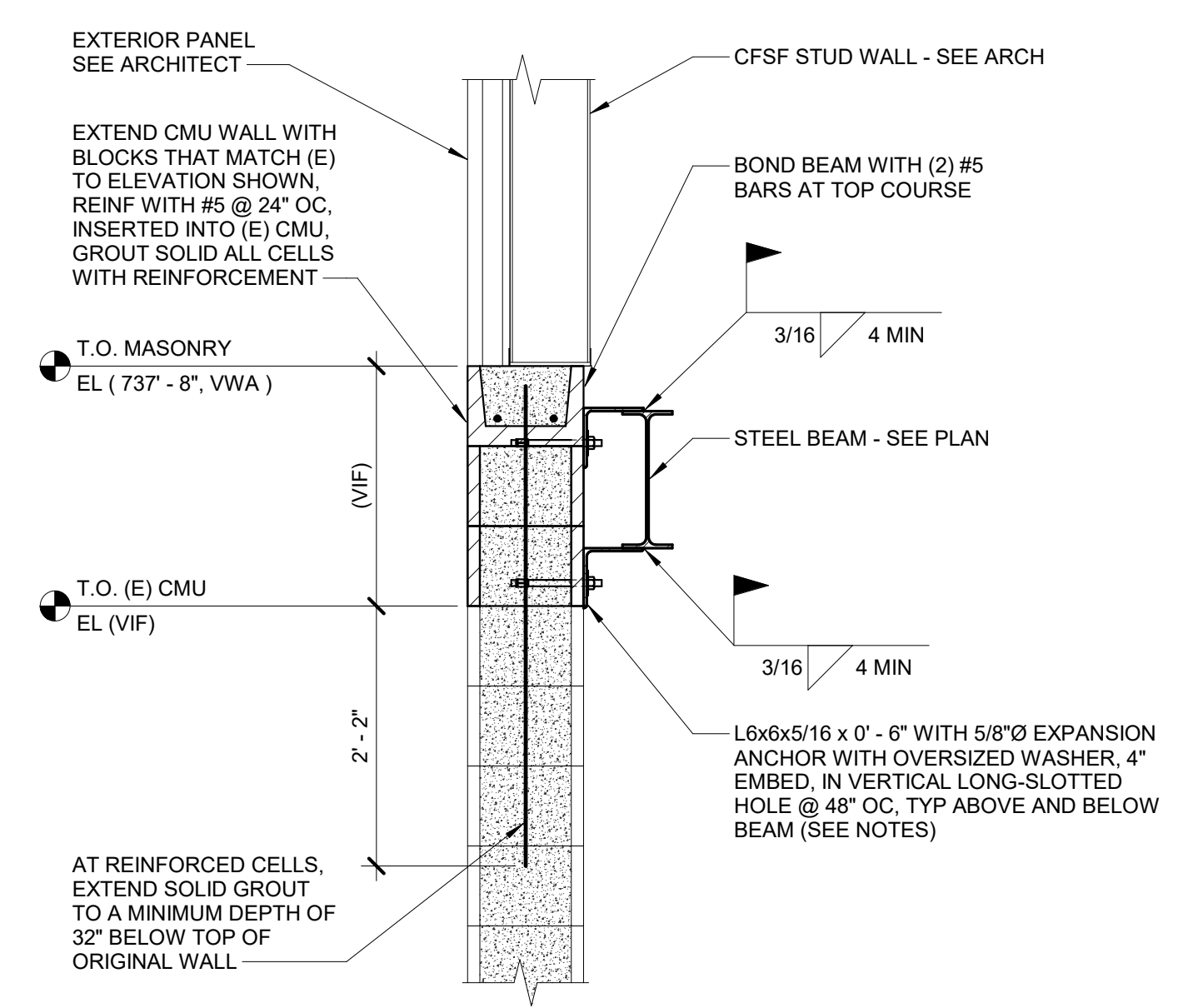


5 REINFORCED INTERIOR SLAB EDGE DETAIL
3/4" = 1'-0"



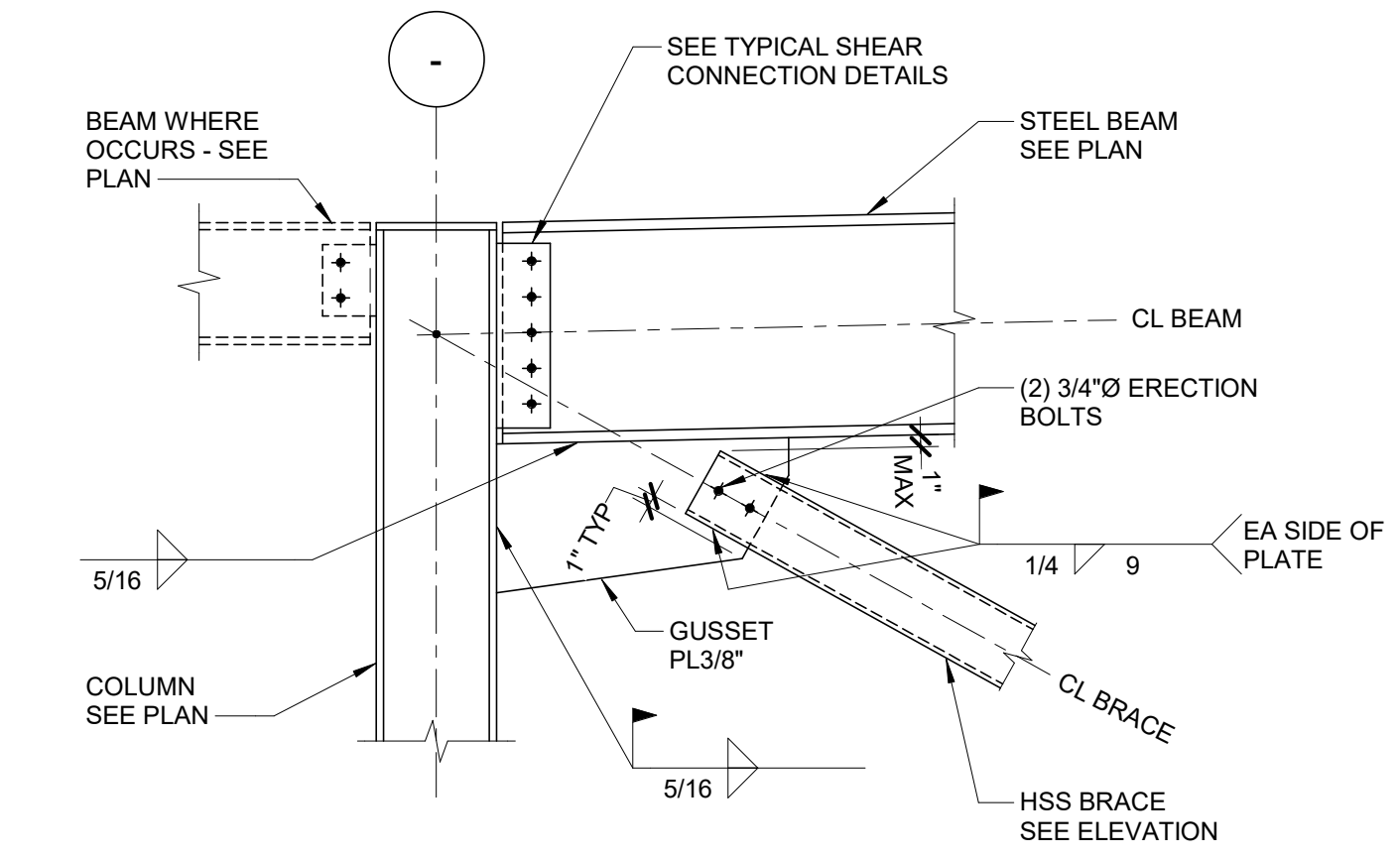
- NOTES:**
- TURN NUT FINGER TIGHT, THEN BACK OFF ONE QUARTER TURN AND MAR THREADS.
 - SEE 6/S-501 FOR ADDITIONAL INFORMATION.

6 EDGE OF SLAB DETAIL
1 1/2" = 1'-0"

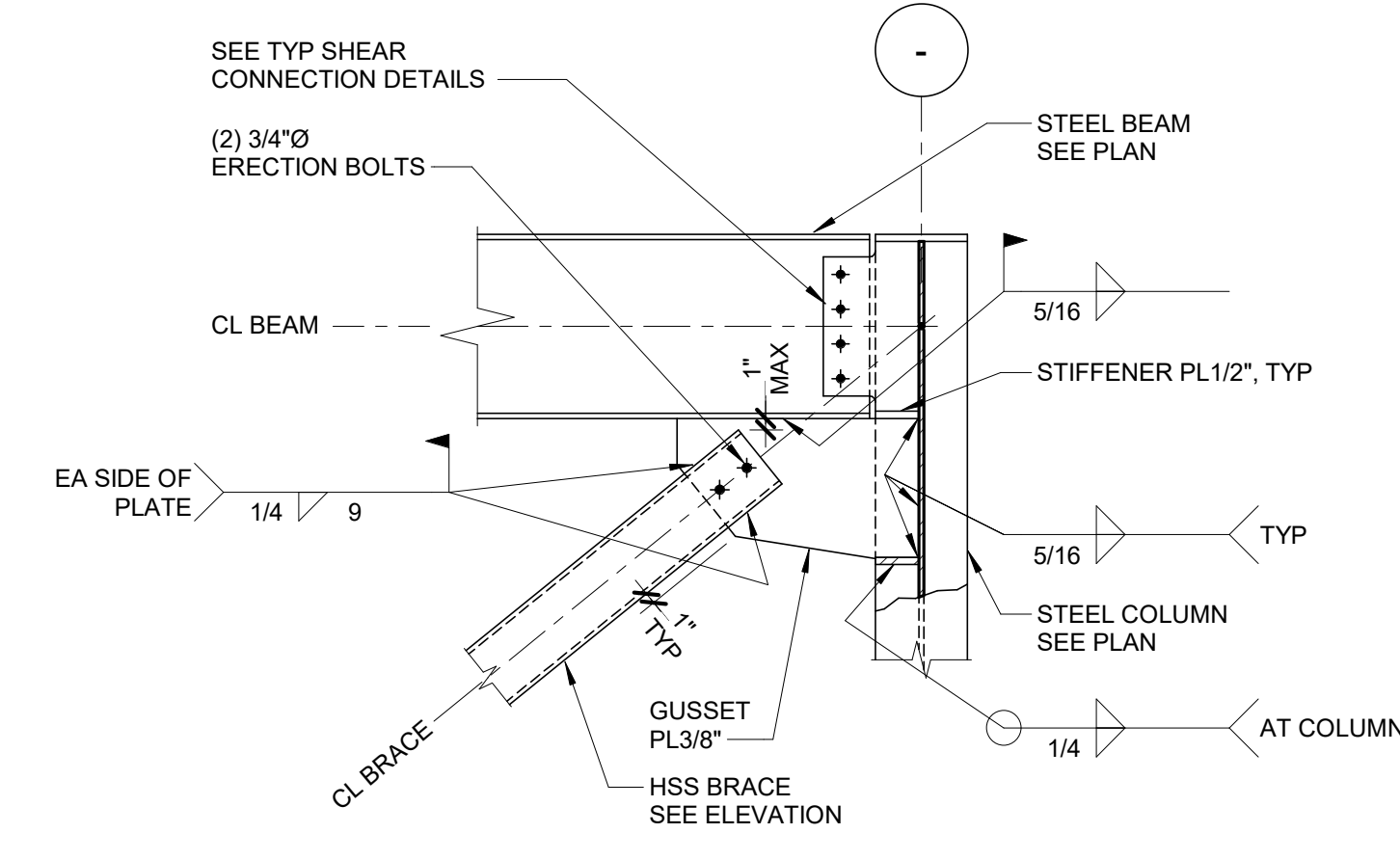


- NOTES:**
- TURN NUT FINGER TIGHT, THEN BACK OFF ONE QUARTER TURN AND MAR THREADS.
 - LOCATE ANGLE AND ANCHOR AT A SOLID GROUTED CMU CELL.
 - PLACE THE UPPER ANGLE FIRST, THEN ERECT THE STEEL BEAM AND PLACE THE LOWER ANGLE LAST.

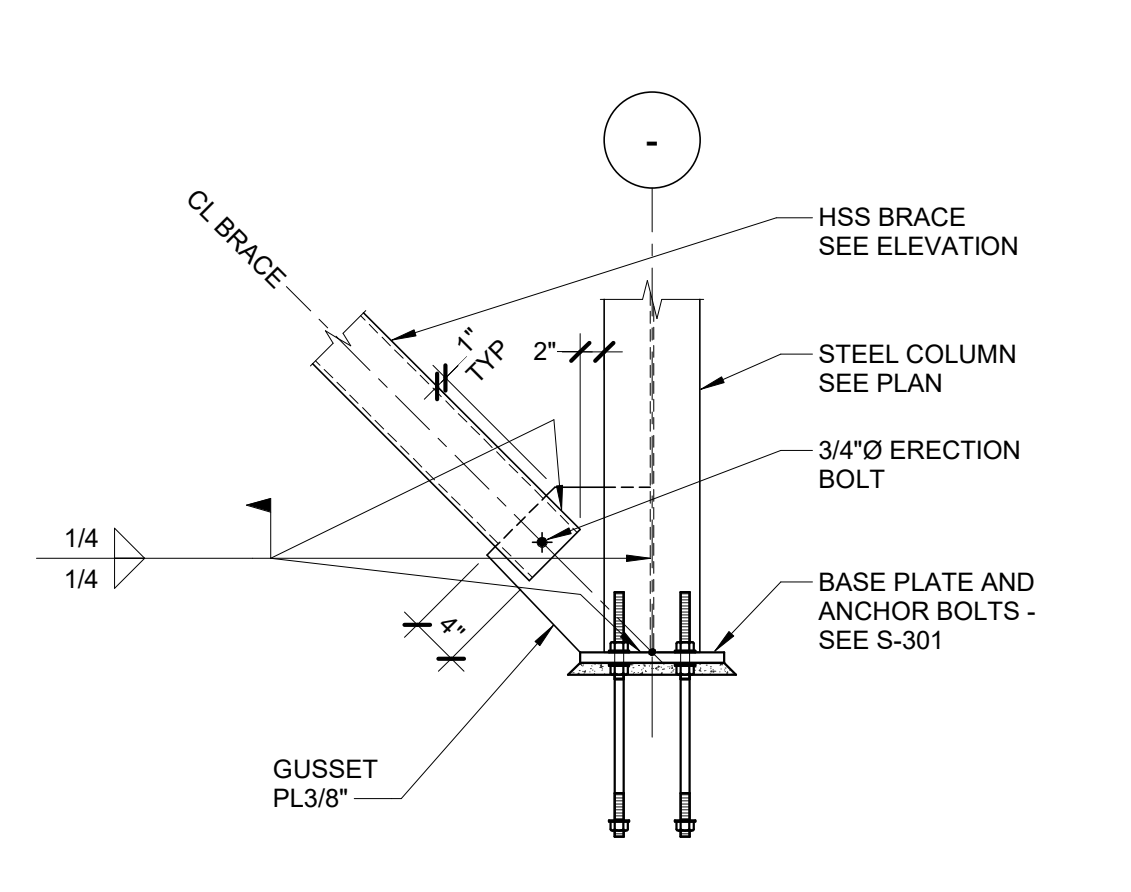
7 WALL/BREAM CONNECTION DETAIL
3/4" = 1'-0"



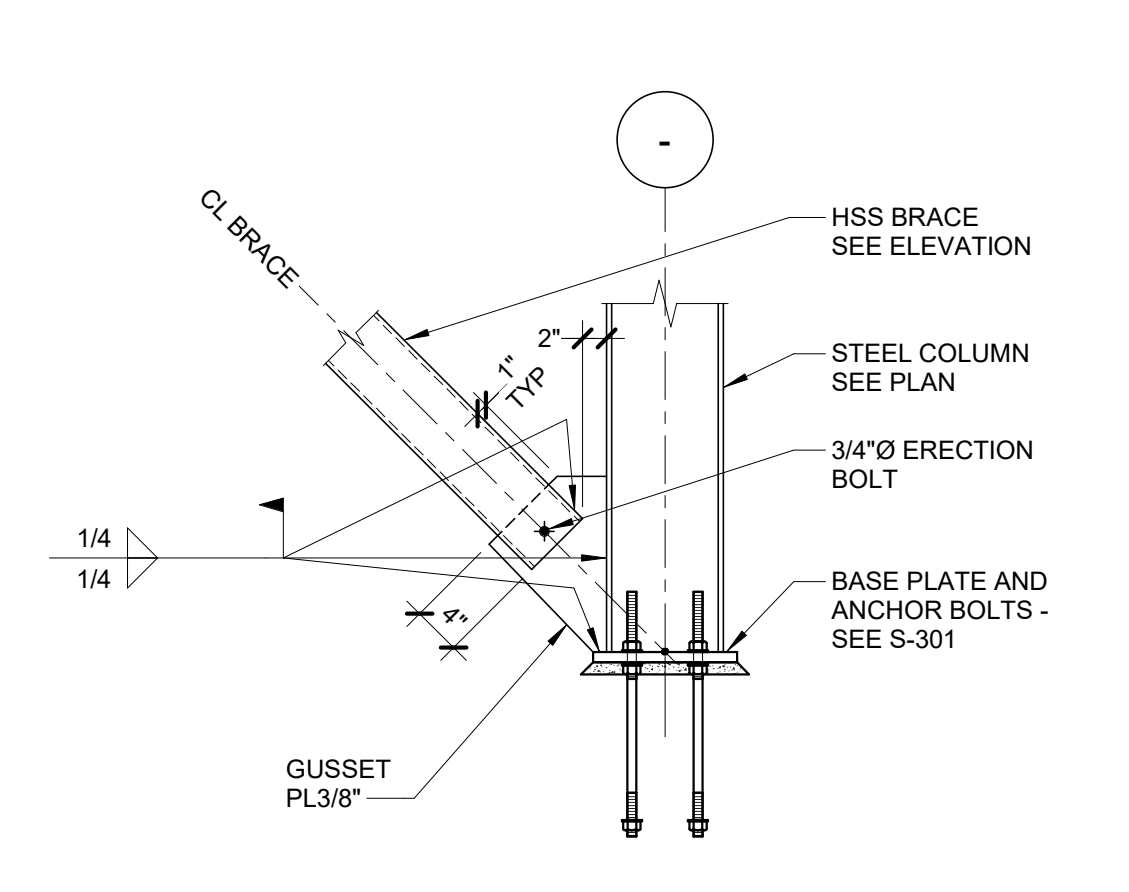
8 BRACE CONNECTION TO COLUMN FLANGE
3/4" = 1'-0"



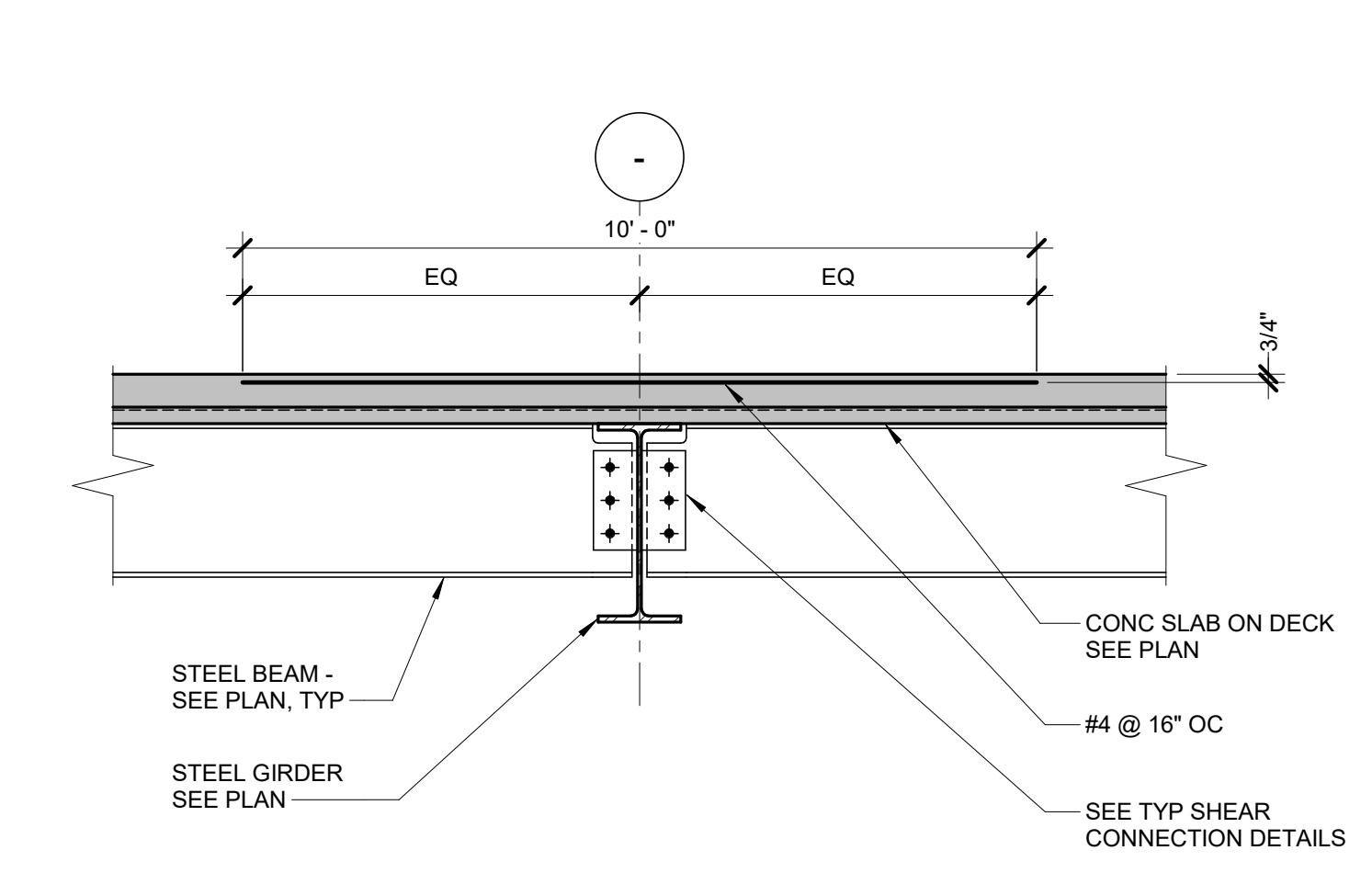
9 BRACE CONNECTION TO COLUMN WEB
3/4" = 1'-0"



10 BRACE CONNECTION TO BASE PLATE/COLUMN WEB
3/4" = 1'-0"



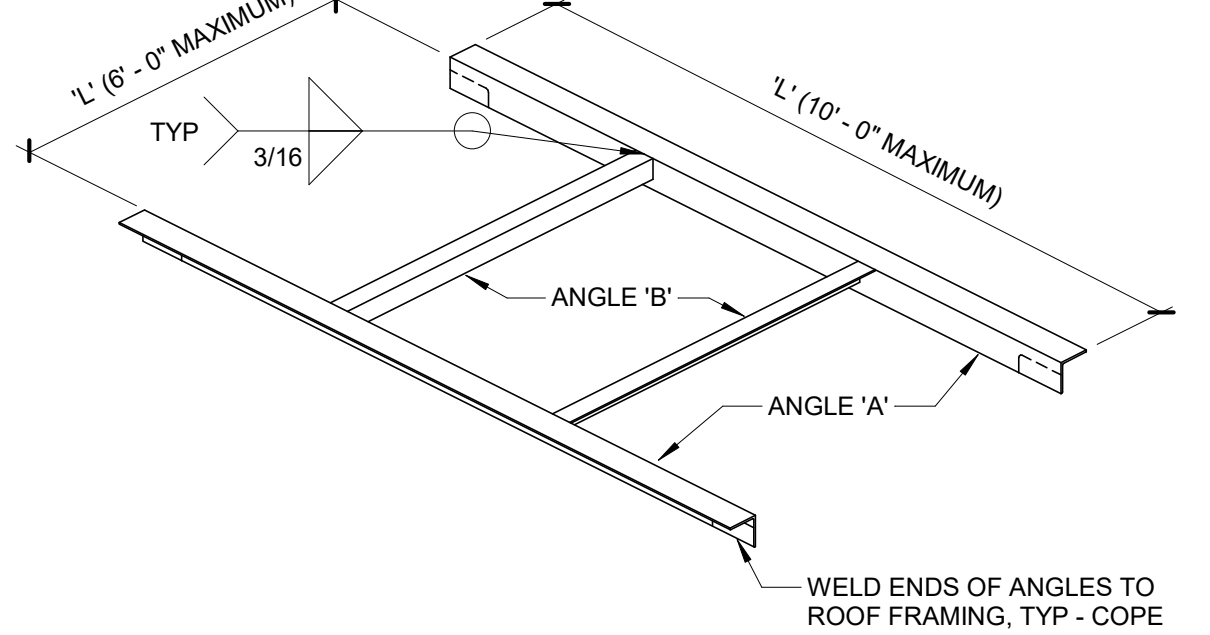
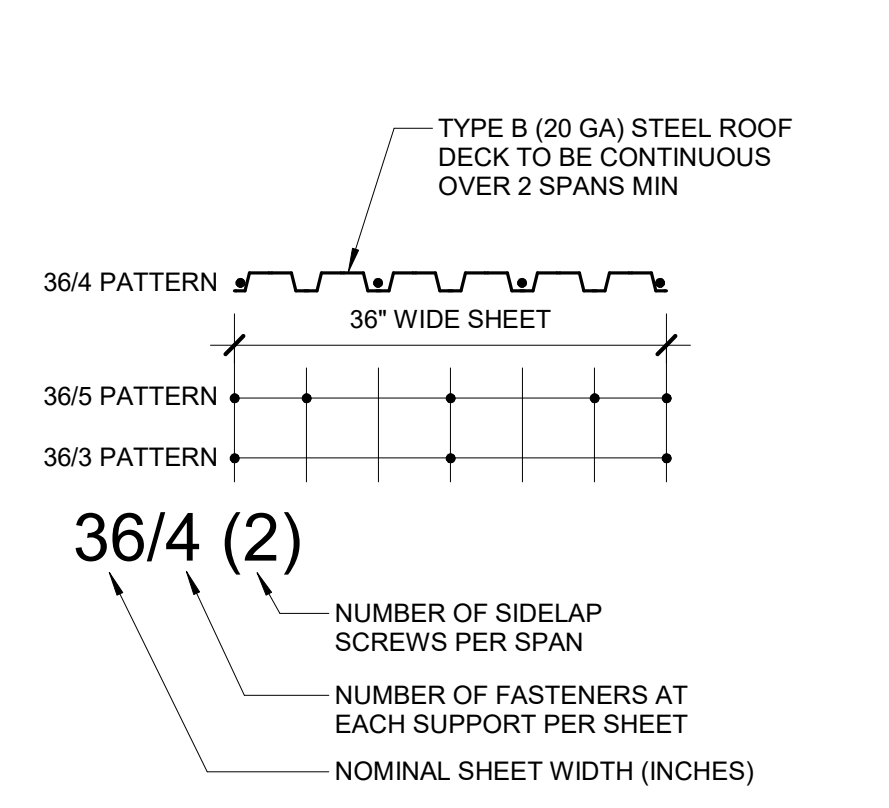
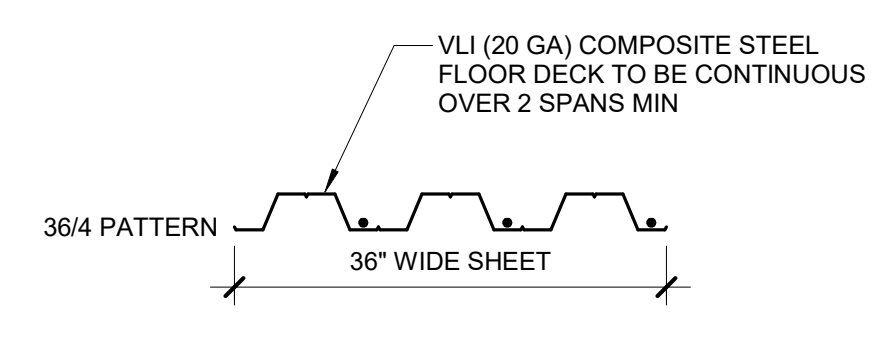
11 BRACE CONNECTION TO BASE PLATE/COLUMN FLANGE
3/4" = 1'-0"



12 SLAB REINFORCEMENT AT GIRDERS
3/4" = 1'-0"

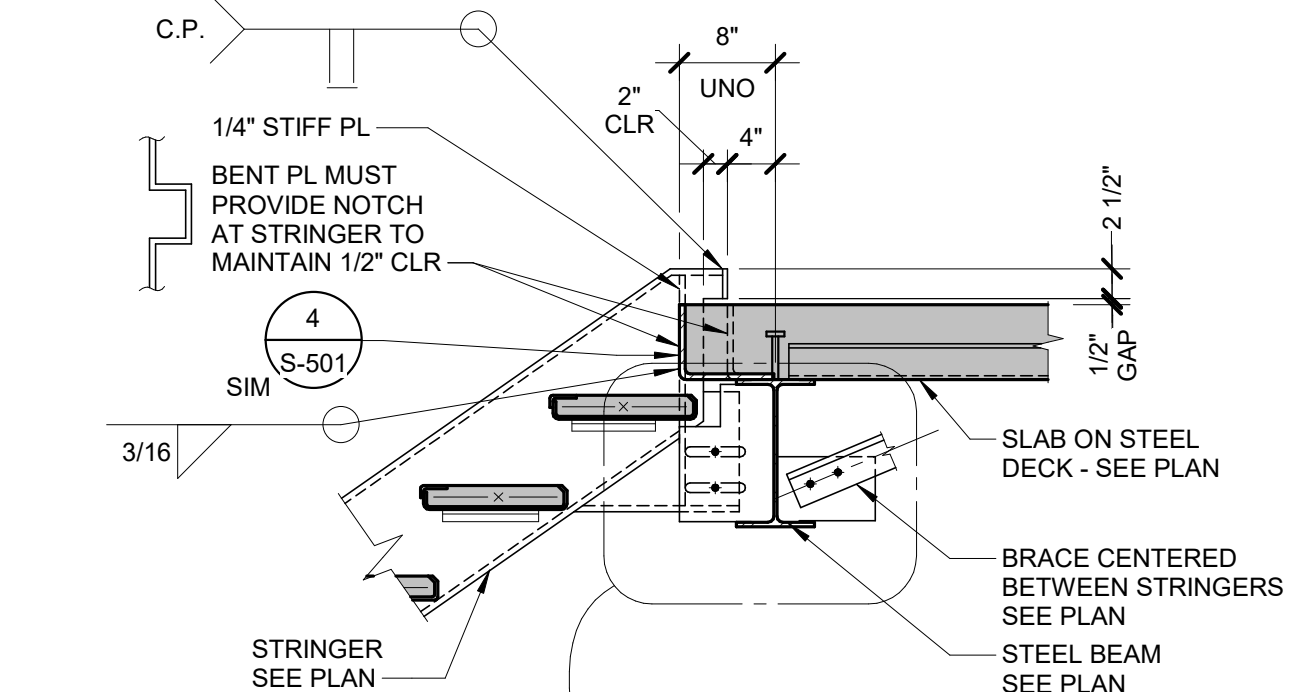
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ARCHITECT/ENGINEER OF RECORD Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elkhorst, Nebraska 68022 Phone: 402.291.6941 Fax: 402.291.9193		IMEG IMEG Corp. 15 Shuman Drive, Suite 104 St. Louis, MO 63143 Phone: (314) 954-2534		STAMP MICHAEL ALBERSWERTH 3-22-2021		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title: FRAMING SECTIONS AND DETAILS Phase: BID SET Approved:		Project Title: RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS Project Number: 589A4-20-158 Building Number: 14	
BID SET Revisions:		03/24/2021 Date:		incandescence life safety a fire protection engineering firm		Fully Sprinklered		Location: HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201 Issue Date: 03/24/2021 Checked: MICALB Drawn: WALLEW		Drawing Number: S-501 Dwg. # 18 of 94	



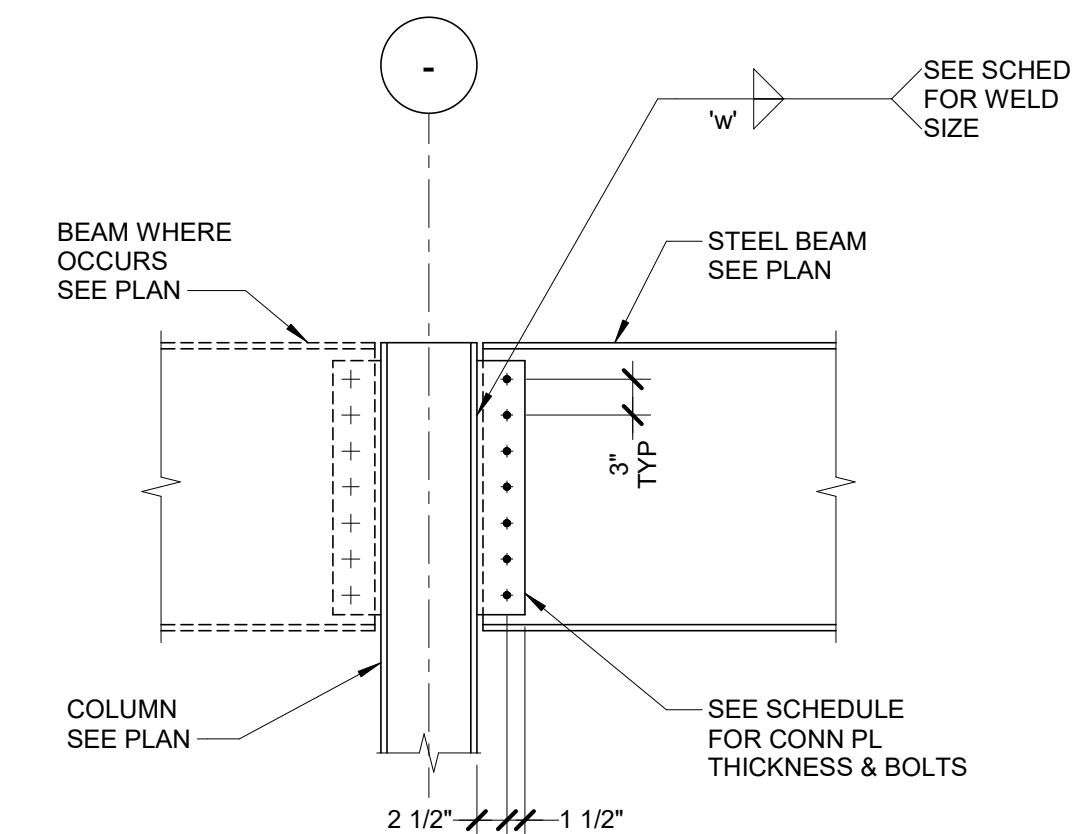
L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE	NONE
1' - 1" TO 4' - 6"	L4x4x1/4	L4x4x1/4
4' - 7" TO 6' - 0"	L4x4x5/16	L4x4x1/4
6' - 1" TO 8' - 0"	L4x4x3/8	-
8' - 1" TO 10' - 0"	L6x4x3/8 (LLV)	-

- NOTES:**
- SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
 - ROOF OPENING FRAMING NOT REQUIRED AT SIDE DISCHARGE ROOF DRAINS COORDINATE WITH MECHANICAL CONTRACTOR.
 - WHERE ANGLES BEAR ON BAR JOISTS AT A LOCATION MORE THAN 4" FROM A TOP CHORD PANEL POINT, PROVIDE JOIST REINFORCEMENT PER 1/S-503.



SUPPORTED BEAM	'n'
W8, W10	2
W12, W14	3
W16	4
W18	5
W21	6
W24, W27	7

- NOTES:**
- DETAILER IS RESPONSIBLE FOR FULLY DEVELOPING GEOMETRY AND DIMENSIONAL INFORMATION REQUIRED TO FABRICATE.
 - WHERE TYPICAL SHEAR CONNECTION DETAIL IS NOT APPLICABLE, FABRICATOR SHALL SELECT AND DETAIL ALTERNATE CONNECTION CAPABLE OF DEVELOPING EQUAL STRENGTH. ALTERNATE CONNECTION SHALL BE SELECTED IN ACCORDANCE WITH AISC CONNECTION TABLES.



BEAM SIZE	NO. OF BOLTS (2) (3)	CONNECTION WITH 3/4" Ø BOLTS	
		PL THICK	PL WELD (1)
C8, C10	2	1/4"	3/16"
W8, W10	2	1/4"	3/16"
W12, W14	3	1/4"	3/16"
W16	4	5/16"	1/4"
W18	5	5/16"	1/4"

- NOTES:**
- FILLET WELD SIZE, 'w', SHALL BE AS SHOWN UNLESS A LARGER SIZE IS REQUIRED BY AISC STEEL CONSTRUCTION MANUAL, TABLE J2.4.
 - WHERE NUMBER OF BOLTS NOTED IN SCHEDULE CANNOT BE IN A SINGLE ROW, ADD SECOND ROW WITH TWO BOLTS MINIMUM.
 - BOLT SIZE AND QUANTITY SHALL BE TYPICAL FOR ALL CONDITIONS UNLESS DETAILED OTHERWISE.

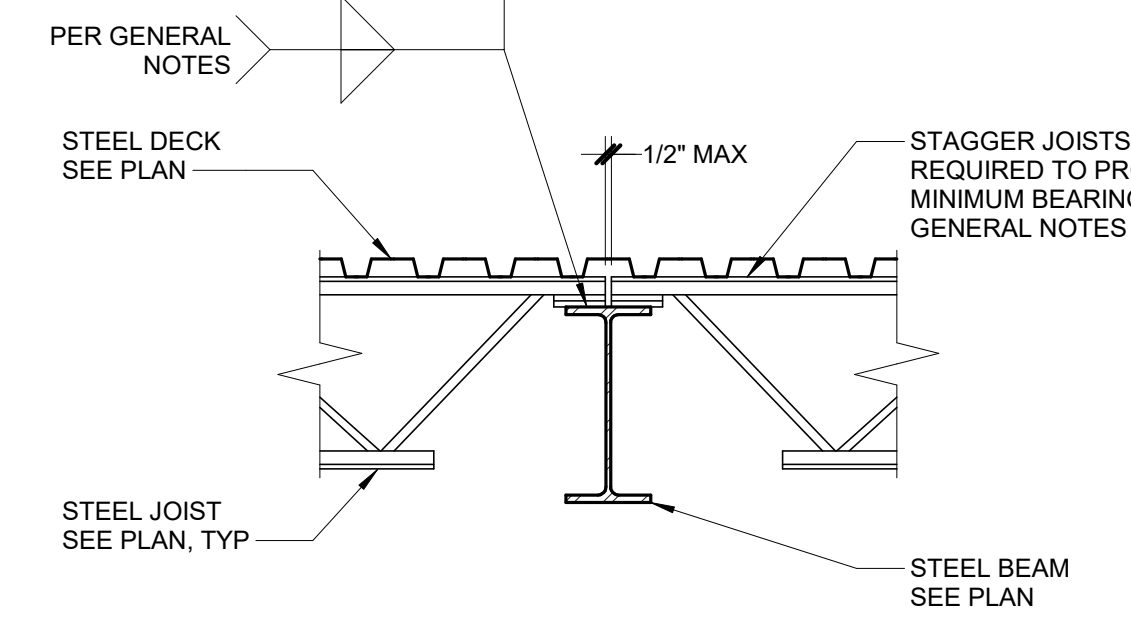
1 TYPICAL STEEL DECK FASTENING DETAIL
3/4" = 1'-0"

2 ROOF OPENING DETAIL
3/4" = 1'-0"

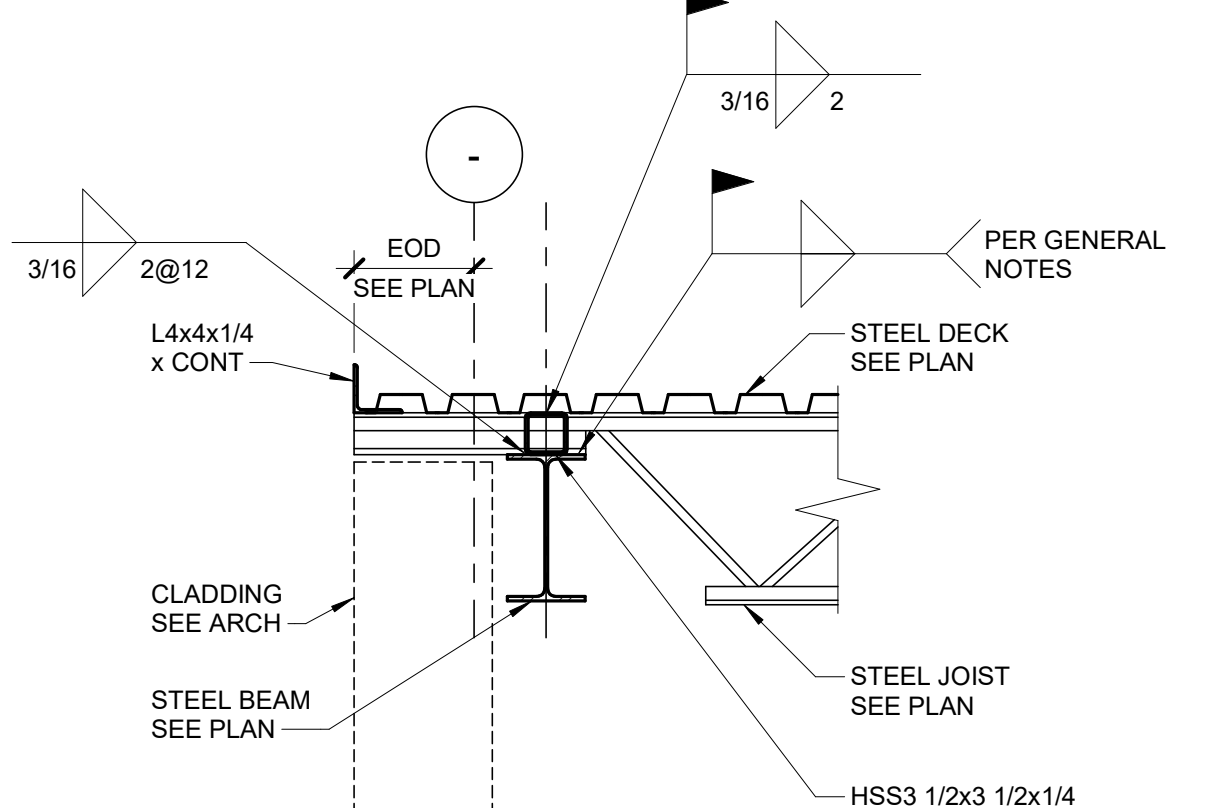
3 TYPICAL STRINGER CONNECTION AT FLOOR
3/4" = 1'-0"

4 TYPICAL DOUBLE ANGLE SHEAR CONNECTION
1 1/2" = 1'-0"

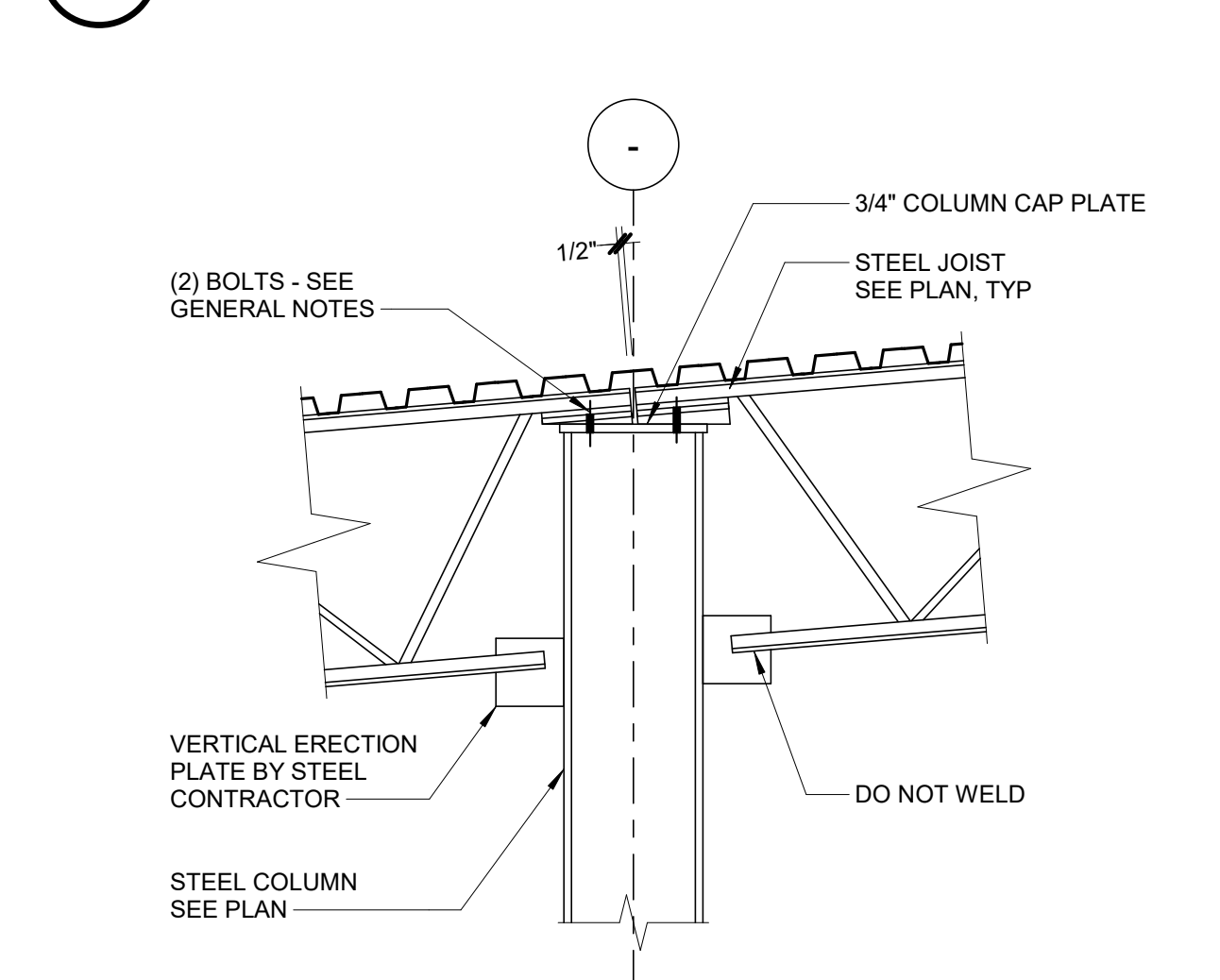
5 TYPICAL SHEAR CONNECTION TO COLUMN
3/4" = 1'-0"



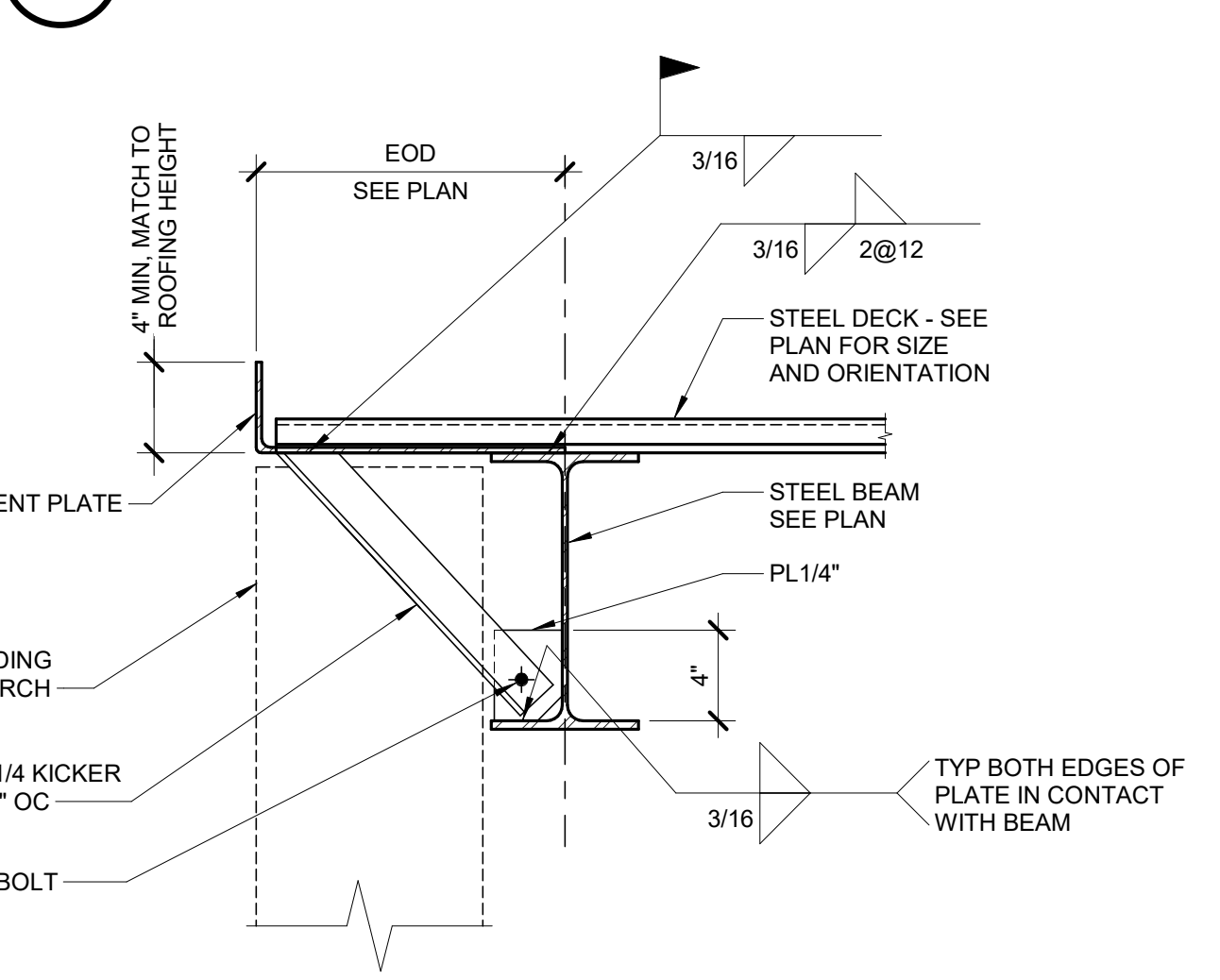
- NOTE:**
- JOISTS AT OR IMMEDIATELY ADJACENT TO COLUMNS SHALL BE BOLTED WITH (2) BOLTS ON BEAM GAGE. SEE GENERAL NOTES FOR BOLT DIAMETER.



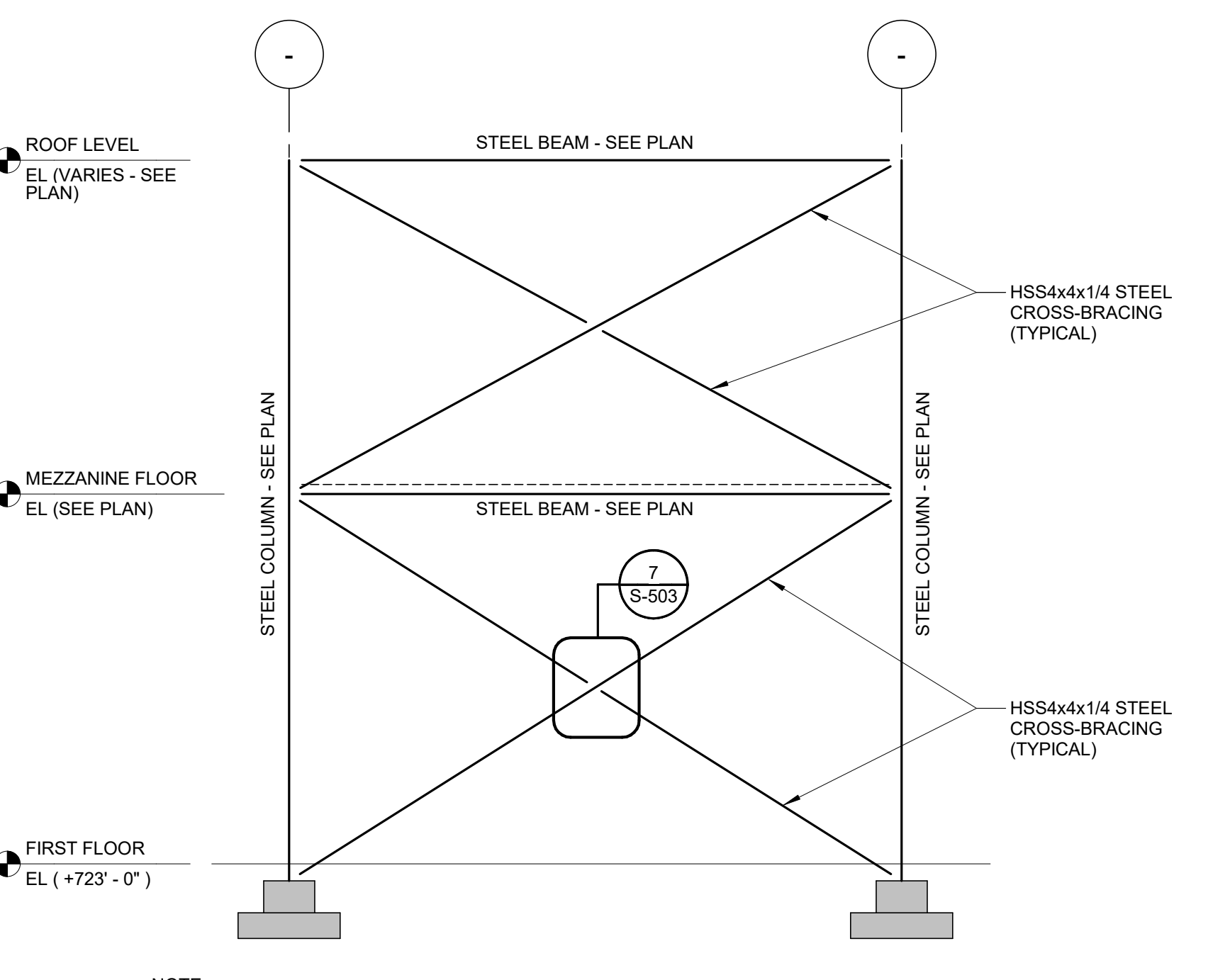
- NOTES:**
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PANELS AND OTHER ROOFING DETAILS NOT SHOWN HERE.
 - PROVIDE HSS MEMBER CENTERED BETWEEN JOISTS ABOVE BRACED FRAME LOCATIONS. HSS MEMBER LENGTH TO BE 2/3 OF JOIST SPACING. WELD DECK TO HSS MEMBER WITH 5/8" Ø PUDDLE WELDS @ 12" OC.



- NOTE:**
- GIRDER NOT SHOWN FOR CLARITY.



9 TYPICAL ROOF DECK EDGE DETAIL
1 1/2" = 1'-0"



- NOTE:**
- SEE DETAILS 8, 9, AND 10/S-501 FOR BRACE CONNECTION DETAILS.

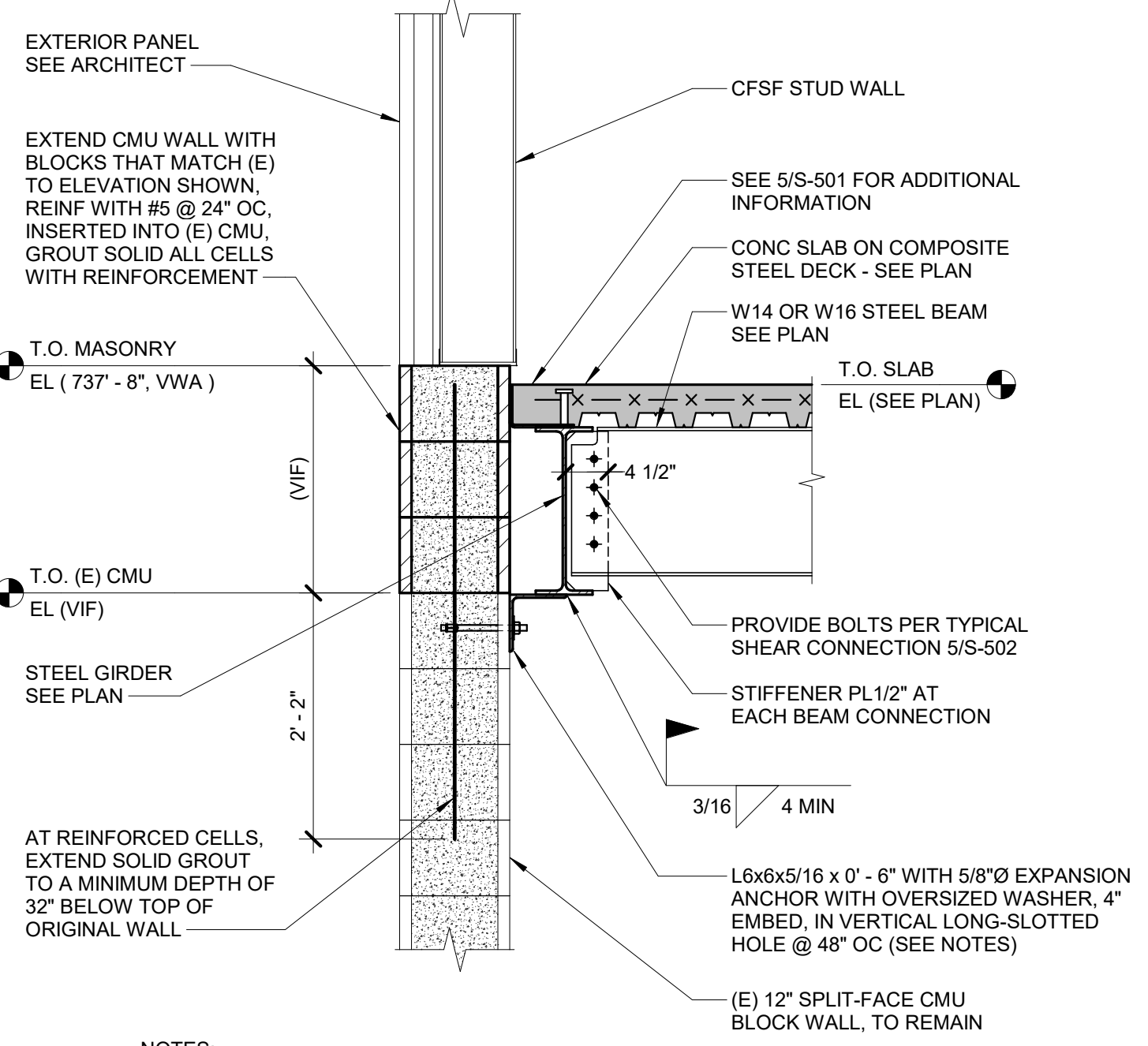
6 ROOF JOIST BEARING AT BEAM
3/4" = 1'-0"

7 TYPICAL JOIST BEARING AT ROOF EDGE
3/4" = 1'-0"

8 STEEL JOIST BEARING AT WF COLUMN
3/4" = 1'-0"

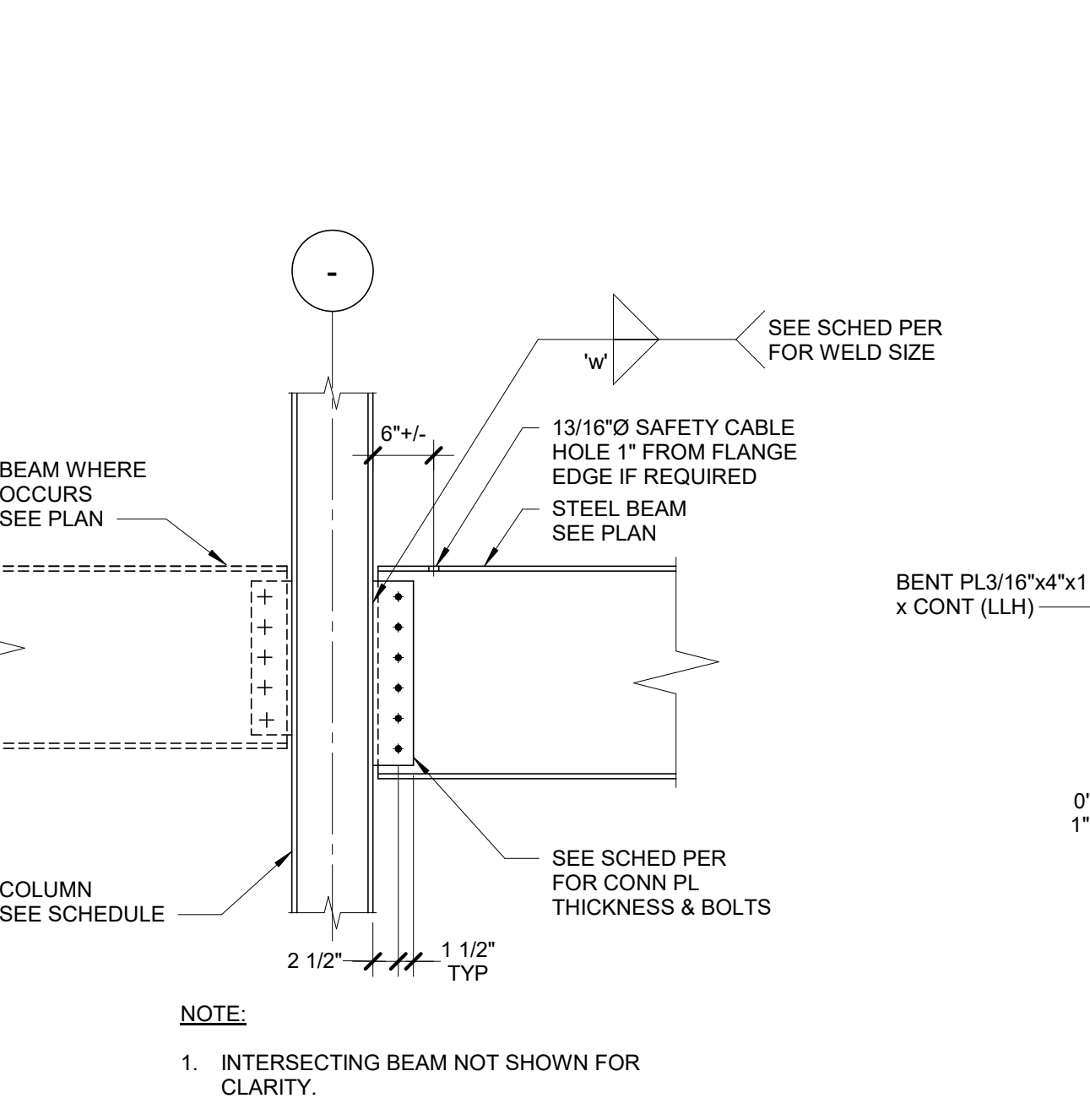
9 TYPICAL ROOF DECK EDGE DETAIL
1 1/2" = 1'-0"

10 TYPICAL STEEL CROSS-BRACING ELEVATION
3/16" = 1'-0"



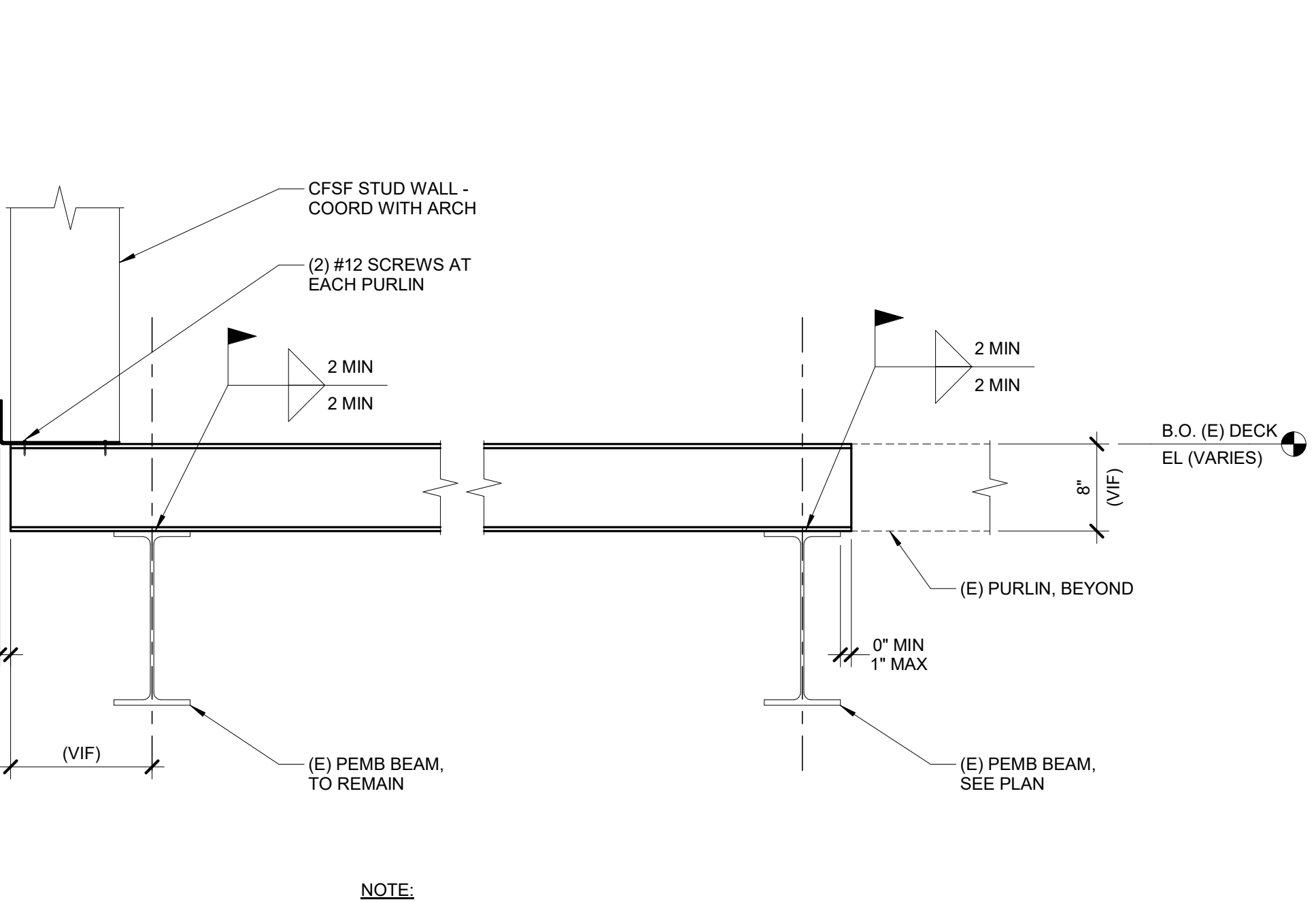
- NOTES:**
- TURN NUT FINGER TIGHT, THEN BACK OFF ONE QUARTER TURN AND MAR THREADS.
 - LOCATE ANGLE AND ANCHOR AT A SOLID GROUTED CMU CELL.

11 MEZZANINE WALL SECTION
3/4" = 1'-0"



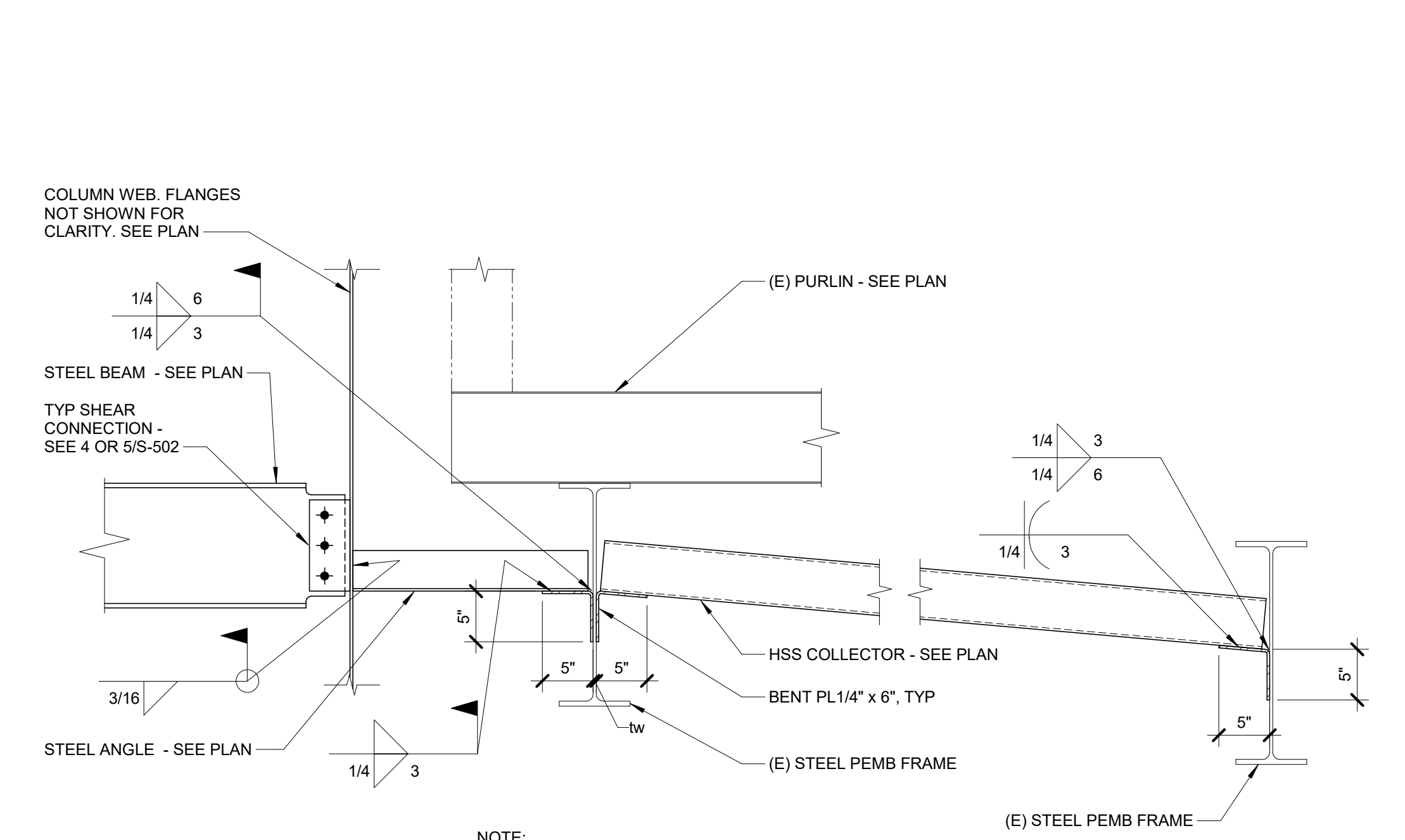
- NOTE:**
- INTERSECTING BEAM NOT SHOWN FOR CLARITY.

12 TYPICAL SHEAR CONNECTION TO COLUMN FLANGE AT FLOOR
3/4" = 1'-0"



- NOTE:**
- (E) ROOF DECK NOT SHOWN.

13 NEW PURLIN SECTION
1" = 1'-0"

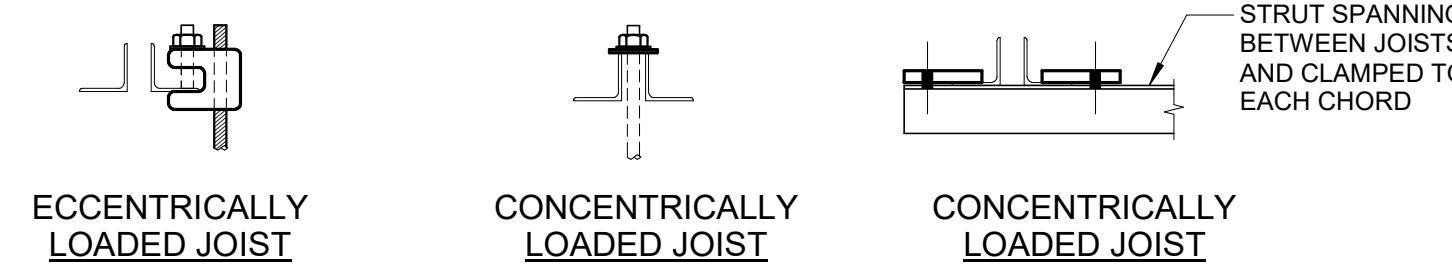
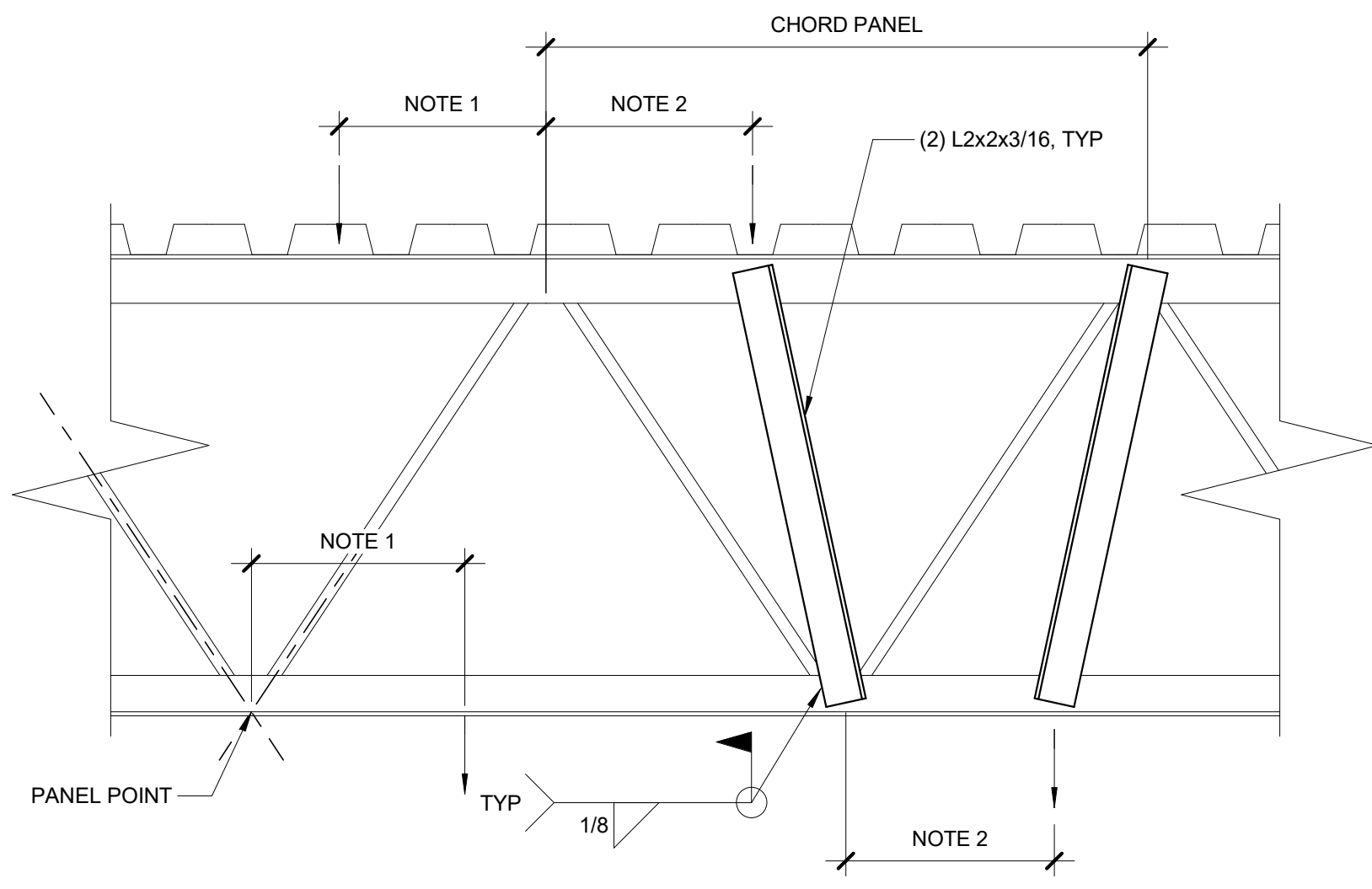


- NOTE:**
- AT SIM, STEEL ANGLE CONNECTION TO NEW COLUMN AND EXISTING FRAME IS SIMILAR, BUT THE COLLECTOR IS NOT REQUIRED.

14 FRAMING DETAIL
1" = 1'-0"

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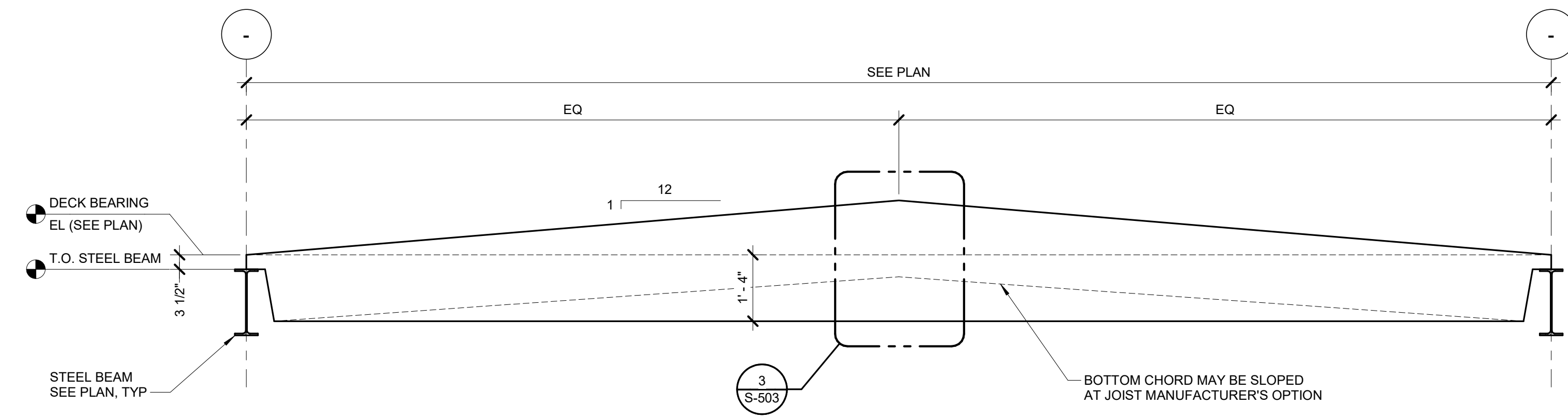
ARCHITECT/ENGINEER OF RECORD Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elk River, MN 55331 Phone: 402.291.6941 Fax: 402.291.9193		IMEG Incandescence Life Safety, Inc. 3025 Douglas Court, #400, Denver, CO 80216 Phone: (303) 722-8010		STAMP OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT MICHAEL ALBERSWERTH 3-22-2021		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title FRAMING SECTIONS AND DETAILS		Phase BID SET		Project Title RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS		Project Number 589A4-20-158	
BID SET Revisions:		03/24/2021 Date:		Approved:		Fully Sprinklered		Issue Date 03/24/2021		Checked MICALB		Drawn WALLEW		Building Number 14	
														Drawing Number S-502 Dwg. # 19 of 94	



NOTES:

- FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAXIMUM OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAXIMUM OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAXIMUM LOAD INDICATED.
- FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
- FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
- NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.

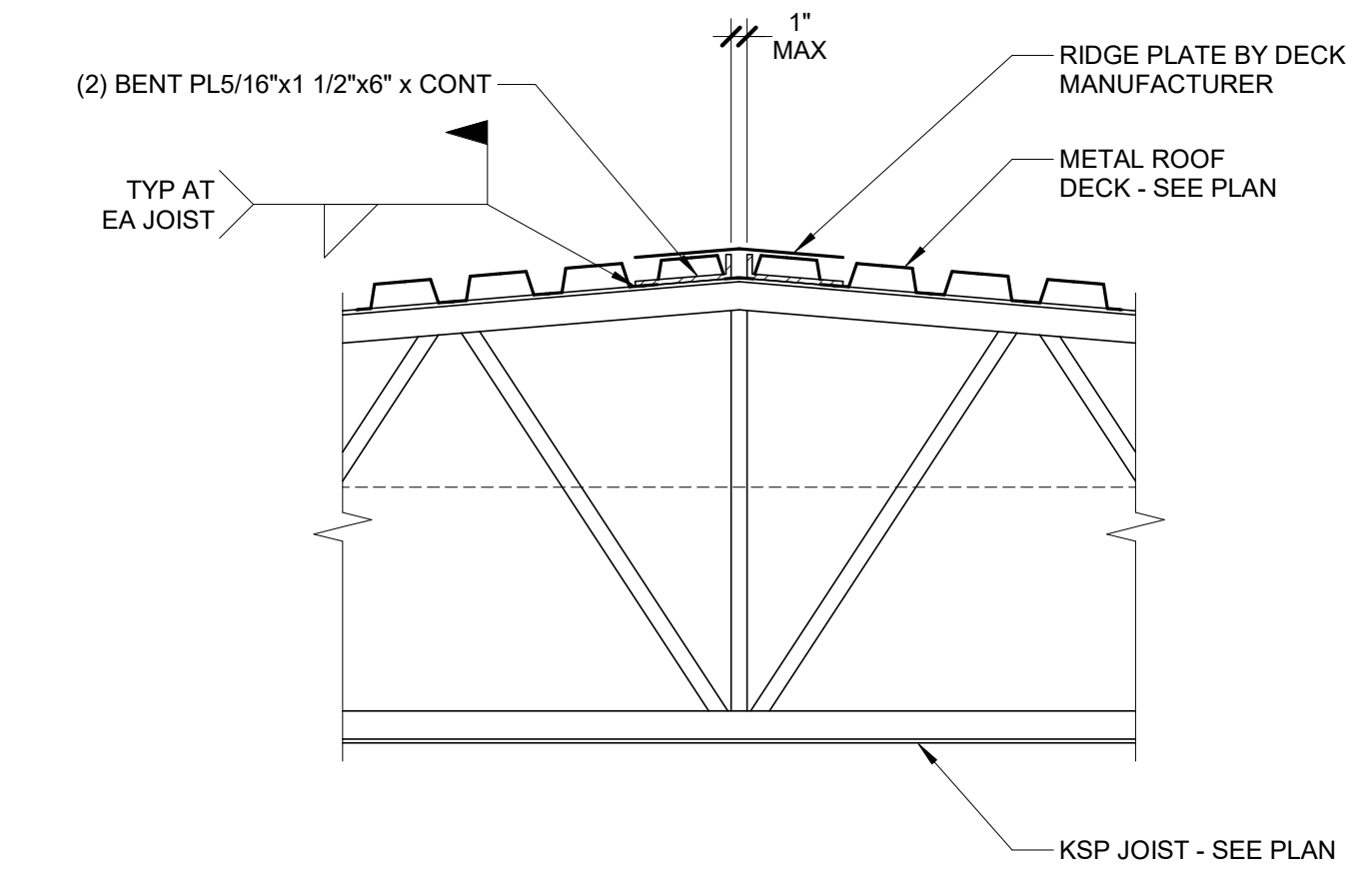
1 JOIST MODIFICATION DETAIL
1/2" = 1'-0"



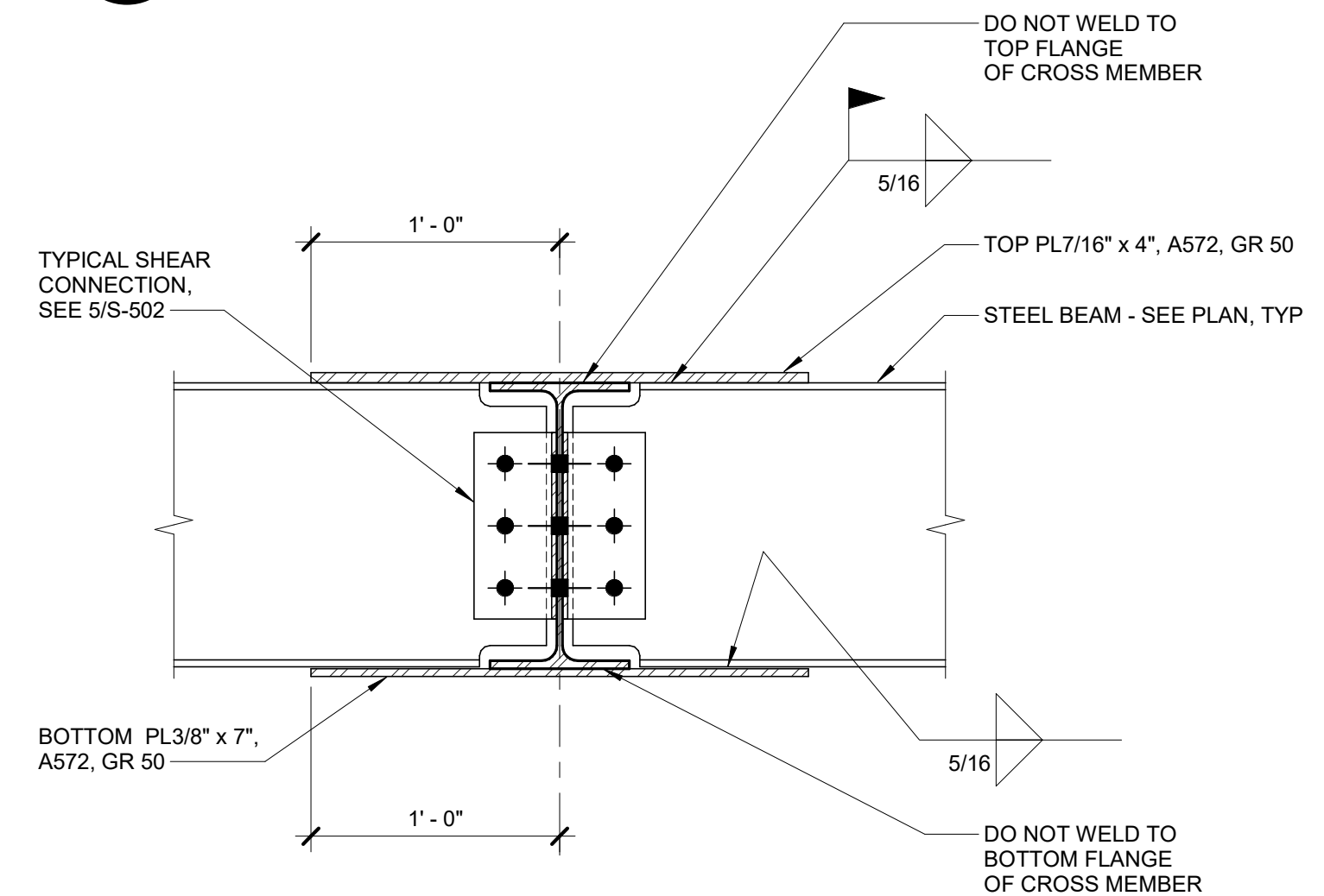
2 16KSP JOIST ELEVATION
1/2" = 1'-0"

NOTE:

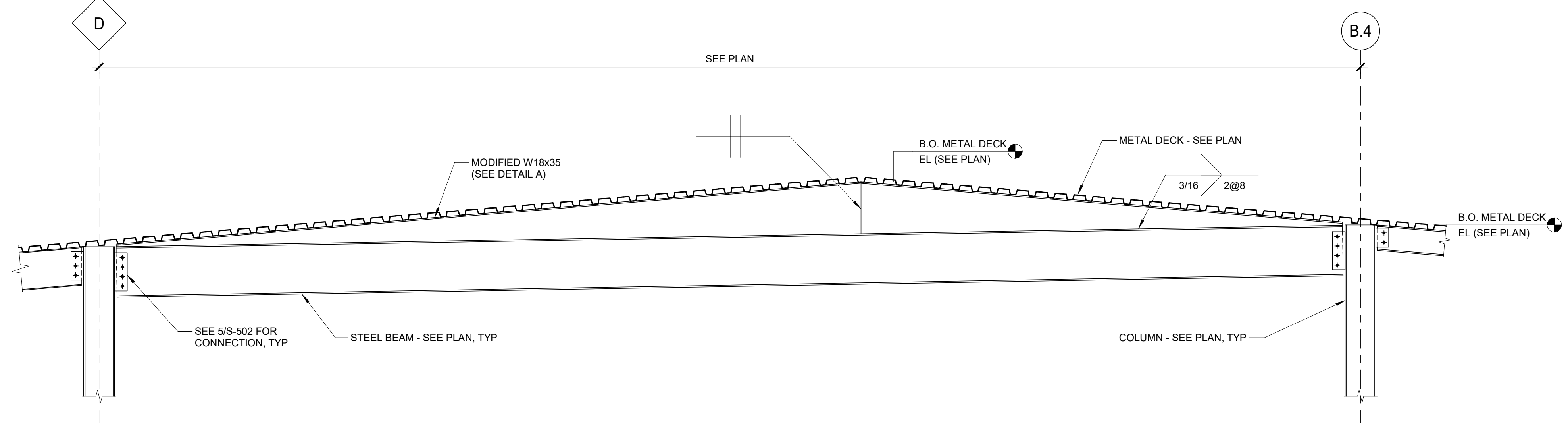
- REFER TO PLAN AND GENERAL NOTES FOR ADDITIONAL INFORMATION, INCLUDING SPACING, DESIGNATION, AND LOADING.



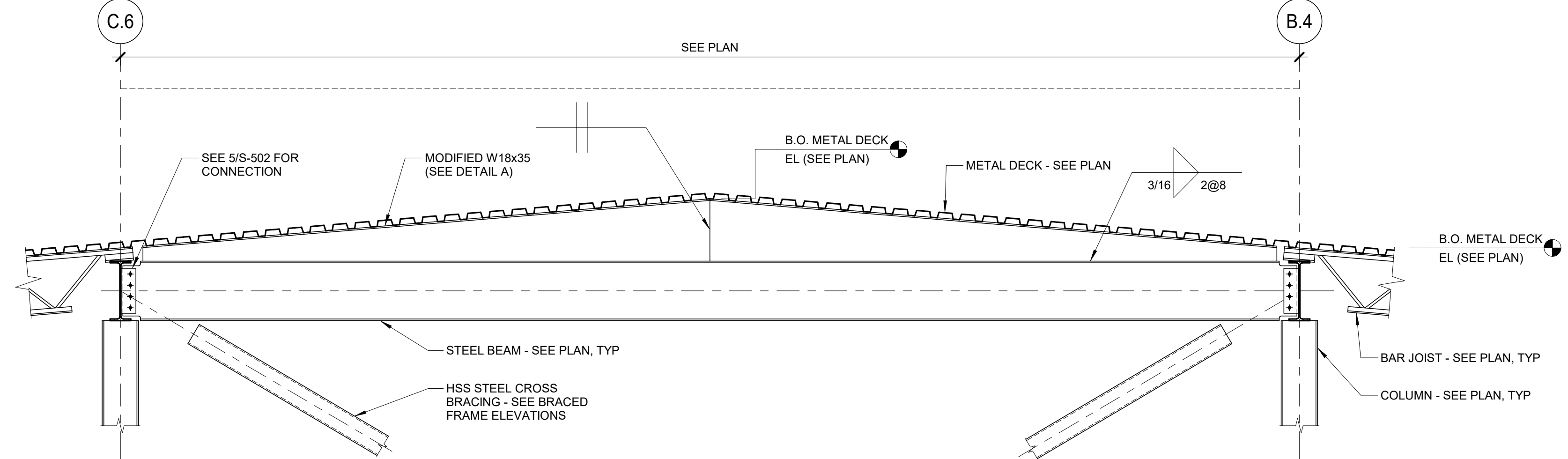
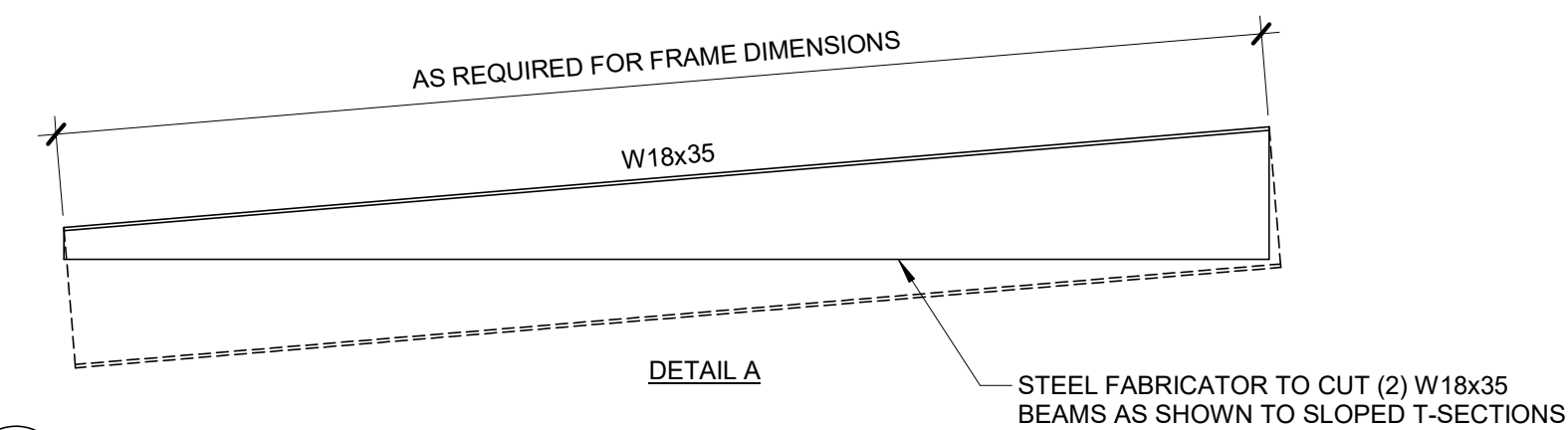
3 JOIST PEAK DETAIL
1" = 1'-0"



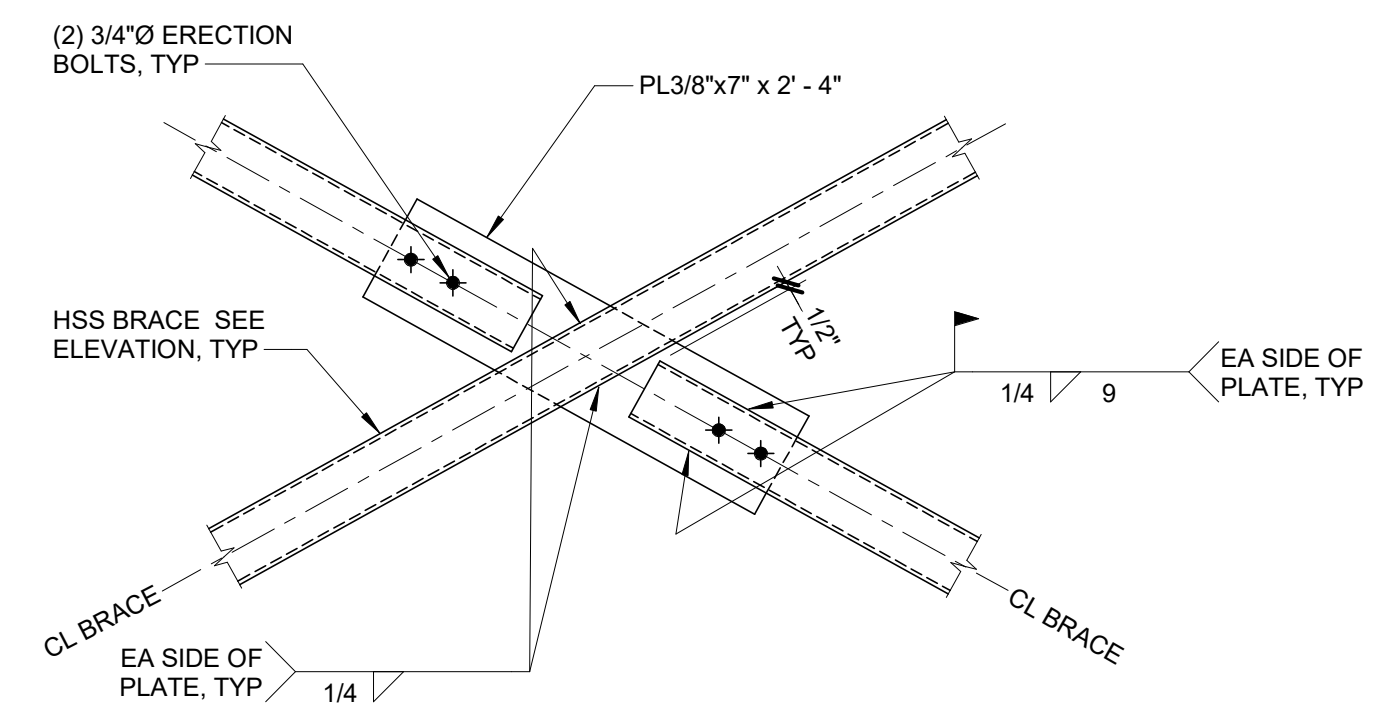
5 THROUGH BEAM MOMENT CONNECTION
1 1/2" = 1'-0"



4 STEEL BEAM AT PEAK DETAIL
1/2" = 1'-0"



6 STEEL BEAM AT PEAK DETAIL
1/2" = 1'-0"



7 BRACE CONNECTION
1" = 1'-0"

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BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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incandescence life safety
a fire protection engineering firm

STAMP

MICHAEL ALBERSWERTH
Professional Engineer
No. 000000000
3-22-2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FRAMING SECTIONS AND DETAILS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
03/24/2021

Checked
MICALB

Drawn
WALLEW

Project Number
589A4-20-158

Building Number
14

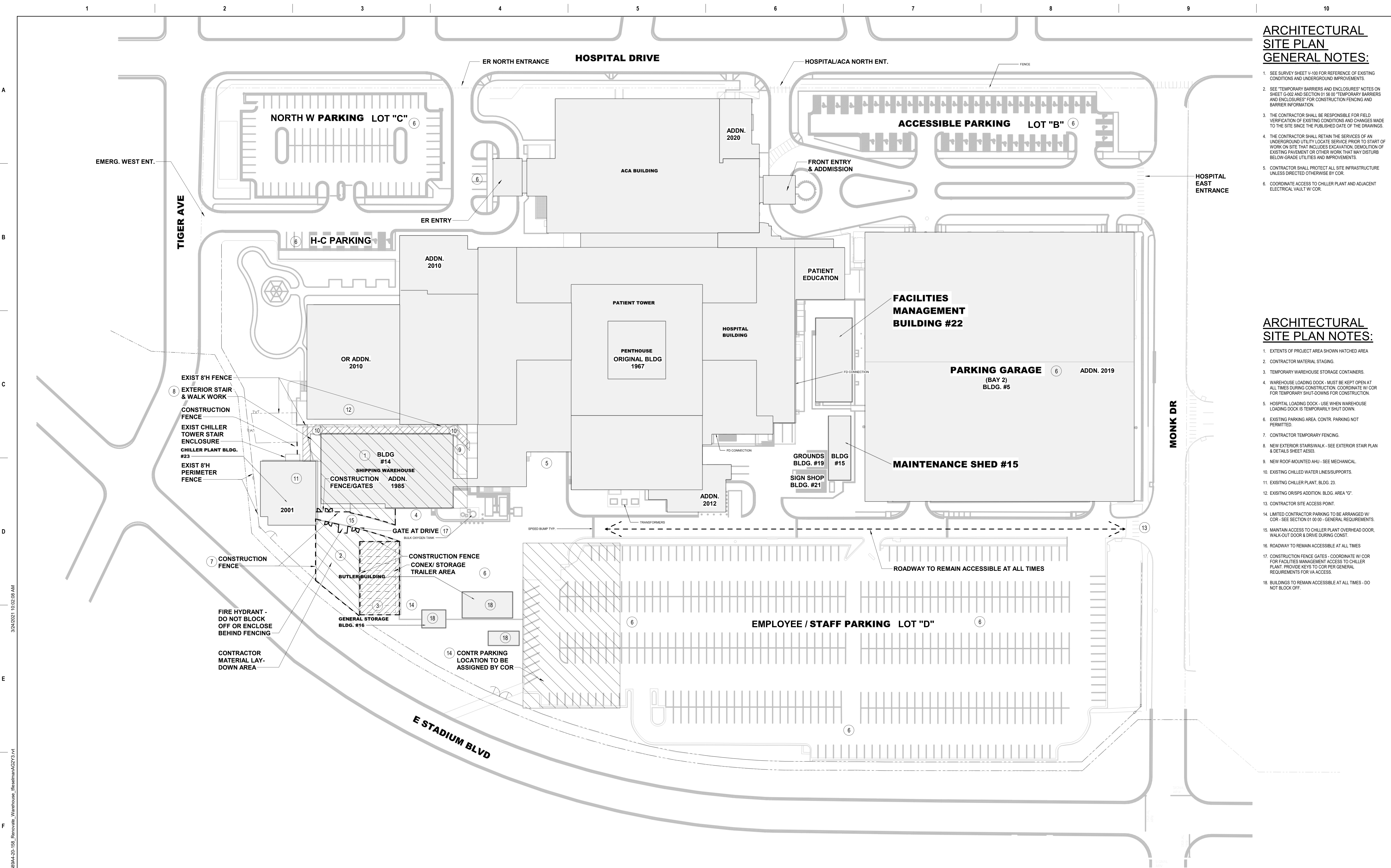
Drawing Number
S-503
Dwg. # 20 of 94

ARCHITECTURAL SITE PLAN GENERAL NOTES:

- SEE SURVEY SHEET V-100 FOR REFERENCE OF EXISTING CONDITIONS AND UNDERGROUND IMPROVEMENTS.
- SEE "TEMPORARY BARRIERS AND ENCLOSURES" NOTES ON SHEET G-002 AND SECTION 01 56 00 "TEMPORARY BARRIERS AND ENCLOSURES" FOR CONSTRUCTION FENCING AND BARRIER INFORMATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND CHANGES MADE TO THE SITE SINCE THE PUBLISHED DATE OF THE DRAWINGS.
- THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN UNDERGROUND UTILITY LOCATE SERVICE PRIOR TO START OF WORK ON SITE THAT INCLUDES EXCAVATION, DEMOLITION OF EXISTING PAVEMENT OR OTHER WORK THAT MAY DISTURB BELOW-GRADE UTILITIES AND IMPROVEMENTS.
- CONTRACTOR SHALL PROTECT ALL SITE INFRASTRUCTURE UNLESS DIRECTED OTHERWISE BY COR.
- COORDINATE ACCESS TO CHILLER PLANT AND ADJACENT ELECTRICAL VAULT W/ COR.

ARCHITECTURAL SITE PLAN NOTES:

- EXTENTS OF PROJECT AREA SHOWN HATCHED AREA.
- CONTRACTOR MATERIAL STAGING.
- TEMPORARY WAREHOUSE STORAGE CONTAINERS.
- WAREHOUSE LOADING DOCK - MUST BE KEPT OPEN AT ALL TIMES DURING CONSTRUCTION. COORDINATE W/ COR FOR TEMPORARY SHUT-DOWNS FOR CONSTRUCTION.
- HOSPITAL LOADING DOCK - USE WHEN WAREHOUSE LOADING DOCK IS TEMPORARILY SHUT DOWN.
- EXISTING PARKING AREA. CONTR. PARKING NOT PERMITTED.
- CONTRACTOR TEMPORARY FENCING.
- NEW EXTERIOR STAIRS/WALK - SEE EXTERIOR STAIR PLAN & DETAILS SHEET A503.
- NEW ROOF-MOUNTED AHU - SEE MECHANICAL.
- EXISTING CHILLED WATER LINES/SUPPORTS.
- EXISTING CHILLER PLANT, BLDG. 23.
- EXISTING ORSPS ADDITION, BLDG. AREA "C".
- CONTRACTOR SITE ACCESS POINT.
- LIMITED CONTRACTOR PARKING TO BE ARRANGED W/ COR - SEE SECTION 01 00 00 - GENERAL REQUIREMENTS.
- MAINTAIN ACCESS TO CHILLER PLANT OVERHEAD DOOR, WALK-OUT DOOR & DRIVE DURING CONST.
- ROADWAY TO REMAIN ACCESSIBLE AT ALL TIMES.
- CONSTRUCTION FENCE GATES - COORDINATE W/ COR FOR FACILITIES MANAGEMENT ACCESS TO CHILLER PLANT. PROVIDE KEYS TO COR PER GENERAL REQUIREMENTS FOR VA ACCESS.
- BUILDINGS TO REMAIN ACCESSIBLE AT ALL TIMES - DO NOT BLOCK OFF.



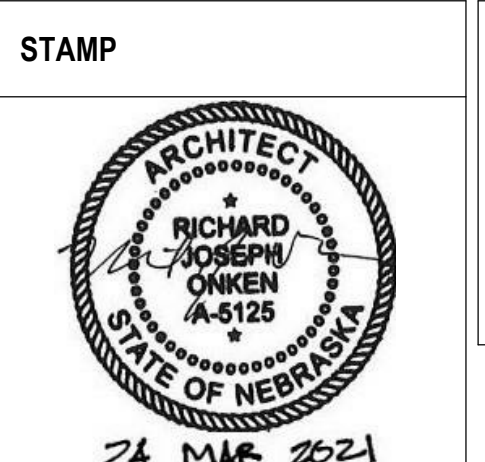
1 ARCHITECTURAL SITE PLAN
1" = 40'-0"

BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD
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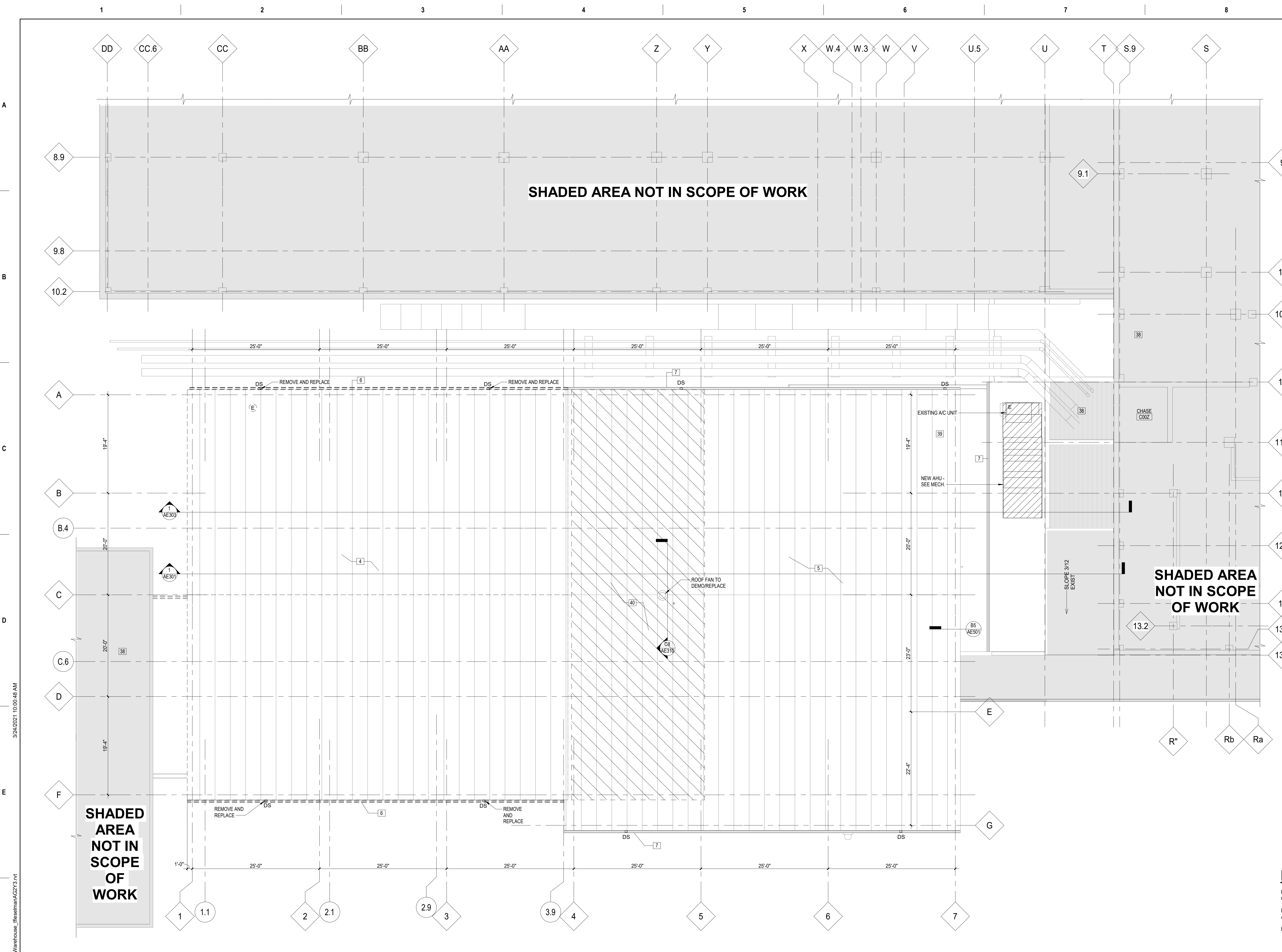
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title	ARCHITECTURAL SITE PLAN
Approved:	

Phase	BID SET
	FULLY SPRINKLERED

Project Title	RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS
Location	HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201
Issue Date	03/24/2021
Checked	AHT
Drawn	TJF

Project Number	589A4-20-158
Building Number	14
Drawing Number	AS101
	Dwg. # 21 of 94



KEYNOTE LEGEND - DEMOLITION

KEY VALUE	KEYNOTE TEXT
1	REMOVE DOOR AND FRAME. SEE PHASING PLAN
2	REMOVE PLUMBING AND FIXTURES INDICATED. REFER TO MECHANICAL DRAWINGS.
3	REMOVE WALL PRIOR TO ROOF DEMOLITION - SEE PHASE 2.
4	REMOVE EXIST ROOF AND FRAME. SEE PHASE 2.
5	EXIST ROOF TO REMAIN.
6	REMOVE GUTTER (PHASE 2). GUTTER TO REMAIN.
8	REMOVE IN-FLOOR SCALE AND RELATED EQUIPMENT. INFILL EXISTING PIT WITH COMPACTED GRANULAR FILL & CONC. SEE STRUCTURAL.
9	REMOVE ACCESS-CONTROLLED DOOR. SEE ELECTRICAL & TECHNOLOGY DEMO DRAWING FOR ADDITIONAL INFO. RE: CONTROLS & ALARM SALVAGE AND REUSE.
10	REMOVE CONCRETE DECK OVER CMU PARTITION. SEE PHASE 1.
11	REMOVE EXIST ACCESS CONTROL, KEYPAD-CARD READER SALVAGE AND REUSE FOR W01. SEE DEMO KEYNOTE 24.
12	REMOVE EXIST WINDOW AND WALL INFILL FOR NEW COUNTERTOP/WINDOW WALL INFILL. SEE ENLARGED FLOOR PLAN AND INTERIOR ELEVATIONS.
13	ROOM TO BE VACATED BY VA PRIOR TO START OF PHASE 1.
14	AREA TO BE PARTIALLY VACATED FOR WORK BY VA PRIOR TO WORK FOR NEW CONSTRUCTION. GC TO COORDINATE W/ COR FOR INSTALLATION OF TEMPORARY CONSTRUCTION PARTITIONS IN ROOM DURING WORK.
16	EXIST FURNITURE, STORAGE RACKS, SHELVING & EQUIP. TO BE REMOVED BY VA PRIOR TO CONST. SALVAGE, STORE AND COORDINATE W/ COR FOR RELEASE.
17	REMOVE PORTION OF CMU WALL AND PROVIDE TEMPORARY SUPPORT AS REQUIRED FOR NEW WORK - SEE STRUCT. FOR NEW LINTELS, SEE DOOR SCHEDULE FOR OPENINGS.
18	REMOVE EXIST GWB FOR ACCESS TO EXTERIOR WALL FOR NEW SPRAY FOAM INSULATION INSTALLATION.
19	REMOVE PORTION OF EXISTING SUSPENDED ACoustICAL CEILING FOR WORK ABOVE CEILING. SEE RCP AND MECH/ELECT/TECH.
20	EXIST ACCESS CONTROL, KEYPAD-CARD READER TO REMOVE & REPLACE - SEE ELECT/TECH.
21	EXIST OVERHEAD WALL-MOUNTED MIRROR-REFLECTOR TO REMAIN.
22	FIRE EXTINGUISHER AND MOUNTING BRACKET TO REMAIN.
23	ACCESS-CONTROLLED DOOR. SEE ELECTRICAL & TECHNOLOGY DEMO DRAWINGS FOR ADDITIONAL INFO. RE: CONTROLS & ALARM.
24	PREP FOR RELOCATION OF ACCESS CONTROL HARDWARE FROM W06 TO W01.
25	REWORK HM DOOR FRAME FOR NEW ELECTRIC STRIKE.
26	EXIST SECURITY PANEL TO REMOVE & RELOCATE - SEE ELECT/TECH.
27	EXIST ACCESS CONTROL CARD READER TO REPLACE W/ PUSH BUTTON - SEE ELECT/TECH.
28	REPLACE ACCESS CONTROL, KEYPAD-CARD READER - SEE HW & ELECT/TECH.
29	EXIST ACCESS CONTROL PAD TO REMOVE & REPLACE AS PART OF CAGE REMOVAL - SEE ELECT/TECH.
30	ACCESS CONTROL & SECURITY CONTROL PADS TO REMOVE & REINSTALL - SEE ELECT/TECH.
31	DEMO EXIST CONC FLOOR AND PREP FOR NEW COLUMN & EXIST STRUCT DEMO.
32	EXIST LOCKERS. VA TO REMOVE AND STORE FOR REINSTALLATION BY GC IN NEW STAFF LOUNGE W04A.
33	EXIST TABLE. VA TO REMOVE AND STORE FOR REINSTALLATION IN NEW STAFF LOUNGE W04A.
34	EXIST REFRIGERATOR/FREEZER. VA TO REMOVE AND STORE FOR REINSTALLATION IN NEW STAFF LOUNGE W04A.
35	REMOVE EXIST TOILET ACCYS. SALVAGE & STORE FOR REUSE IN NEW STAFF TOILET W08.
36	EXIST HVAC UNIT - SEE MECH.
37	EXIST WIRE MESH CAGE - DISASSEMBLE AND STORE FOR REINSTALLATION AT END OF PHASE 3.
38	SEE MEP DRAWINGS FOR WORK IN ROOM OUTSIDE OF WAREHOUSE.
39	EXIST ROOF-MTD. HVAC EQUIP. TO REMOVE - SEE MECH.
40	SEE STRUCT. FOR WORK RELATED TO ADDITION OF PURLINS.

DEMOLITION GENERAL NOTES:

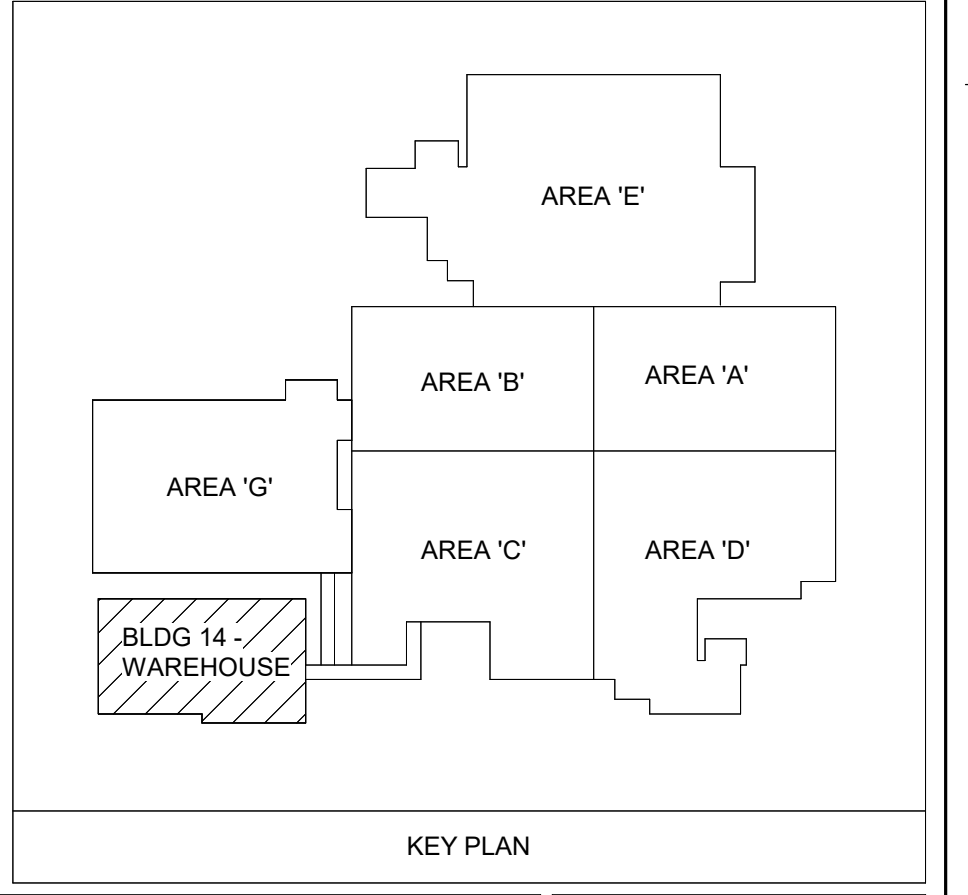
- DASHED BOLD LINES INDICATE EXTEND OF DEMOLITION INCLUDING THE FOLLOWING - CONTRACTOR TO DISPOSE AS DIRECTED BY THE COR:
 - INTERIOR PARTITIONS (REMOVED TO STRUCTURE)
 - CEILING NOT DESIGNATED FOR REMOVAL AND REINSTALLATION, INCLUDING CEILING SUSPENSION SYSTEM, MISC. STEEL SUPPORTS FOR SUSPENDED EQUIPMENT, SUSPENDED EQUIPMENT, LIGHT FIXTURES, DIFFUSERS AND GRILLES, ETC.
 - FLOOR FINISHES (TO CONCRETE) INCLUDING CARPET, VCT, SHEET VINYL AND OTHER RESILIENT FLOORING, CERAMIC TILE, QUARRY TILE, BRICK PAVERS, ETC.
 - DOORS AND FRAMES (UNLESS NOTED OTHERWISE IN DOOR SCHEDULE)
 - WINDOW GLAZING AND FRAMES (UNLESS NOTED OTHERWISE)
 - BRICK AND BACK-UP WALL SYSTEM
 - PLUMBING FIXTURES (SEE PLUMBING DEMOLITION DRAWINGS)
- REFER TO FIRE PROTECTION, PLUMBING, ELECTRICAL AND TECHNOLOGY DEMOLITION DRAWINGS FOR RELATED DEMOLITION WORK.
- ITEMS LISTED BELOW SHOWN WITH DASHED LINES ARE TO BE SALVAGED AND RETURNED TO THE VA UNLESS NOTED OTHERWISE - COORDINATE W/ COR FOR FINAL DETERMINATION OF ITEMS TO BE SALVAGED AND RETURNED TO THE VA OR TO BE DISPOSED OF BY THE CONTRACTOR:
 - CABINETWORK, SHELVING, BASES
 - TOILET PARTITIONS AND TOILET ACCESSORIES
 - TACK BOARDS, MARKER BOARDS, REGISTERS, DISPLAY BOARDS (TO BE SALVAGED, STORED AND REINSTALLED - SEE INTERIOR ELEVATIONS)
 - OFFICE EQUIPMENT, FURNITURE, APPLIANCES, PERSONNEL LOCKERS, CLOCKS
- REFER TO PLUMBING, MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS FOR DEMOLITION OF MECH/ELECT/TECH WORK NOT SHOWN ON ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. DISCREPANCIES, WHEN FOUND, SHALL BE BROUGHT TO THE ATTENTION OF THE COR FOR FURTHER ACTION.
- ALL LIGHT OR HALFTONE LINES INDICATE EXISTING TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS FOR PROTECTION OF ITEMS DURING DEMOLITION AND CONSTRUCTION W/ COR.
- SEE SPECIFICATIONS SECTION 02 41 00 FOR DEMOLITION, CUTTING AND PATCHING.
- SEE ROOM FINISH SCHEDULE, MECHANICAL PLANS, AND ELECTRICAL PLANS FOR EXTENT OF NEW CEILING CONSTRUCTION OR CEILING PATCHING IN EXISTING AREAS.
- SEE ROOM FINISH SCHEDULE FOR EXTENTS OF NEW FLOORING MATERIAL AND TRANSITIONS IN EXISTING AREAS.
- SEE ROOM FINISH SCHEDULE FOR EXTENT OF NEW WALL COVERING MATERIAL IN EXISTING AREAS. WHERE NEW FINISHES ARE REQUIRED, REMOVE EXISTING WALL FINISHES (TOXIC/RED PLASTIC COATING, VINYL WALL COVERING, PANELING, BASE, ETC.).
- CONTRACTOR TO VERIFY ALL WALL CONSTRUCTION & FINISHES NOTED FOR REMOVAL. TAKE INTO ACCOUNT ANY DISCREPANCY AND MAKE PROPER ADJUSTMENT TO ACCOMPLISH REQUIRED CONSTRUCTION & FINISHES. IF STRUCTURAL INTEGRITY IS VIOLATED, CONTACT ARCHITECT. COORDINATE PHASING WITH OWNER.
- COORDINATE REMOVAL AND STORAGE OF FURNITURE & EXISTING EQUIPMENT WITH OWNER.
- REFER TO RENOVATION DRAWINGS FOR RELOCATION OF EXISTING EQUIPMENT. REFER TO EQUIPMENT SCHEDULE FOR DESIGNATION RESPONSIBILITY FOR ITEMS PROVIDED BY VA OR CONTRACTOR.
- SAW CUT EDGES OF EXISTING FLOOR SLAB FOR REMOVAL AND INSTALLATION OF UTILITIES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
- REMOVE FURRING OR GWB ONLY WHERE REQUIRED TO COMPLETE CONSTRUCTION. PATCH AND MATCH WALLS AS REQUIRED TO COMPLETE AND MATCH EXISTING CONDITIONS, UNLESS AN ALTERNATIVE MATERIAL AND FINISH IS INDICATED.
- REMOVE CEILING ONLY AS REQUIRED FOR NEW CONSTRUCTION. REINSTALL, REFACE OR PATCH AS REQUIRED. SEE REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION.
- INFILL ABANDONED FMET WALL PENETRATIONS TO MATCH EXIST CONSTRUCTION. COORDINATE WITH MECH/ELECT.
- REMOVE EXIST WALL-MTD. SIGNAGE & RETURN TO VA. COORDINATE REMOVAL WITH COR. SEE SIGNAGE GENERAL NOTES SHEET AE502 FOR REMOVAL OF EXISTING EMERGENCY AND SAFETY SIGNAGE.
- SEE 'TEMPORARY BARRIERS AND ENCLOSURES' NOTES ON SHEET G-02Z AND SECTION 01 56 00 'TEMPORARY BARRIERS AND ENCLOSURES' FOR INFORMATION RELATED TO TEMPORARY ENCLOSURES, TEMPORARY CONSTRUCTION BARRIERS AND PROTECTION OF EXISTING BUILDING, UTILITIES AND RELATED ITEMS.
- SEE PHASING PLAN SHEETS FOR INFORMATION RELATED TO TEMPORARY BARRIERS NOT SHOWN IN DEMOLITION PLAN.

PHASING NOTES:

PHASING TO BE DEVELOPED TO MINIMIZE DISRUPTION OF OWNER-RELATED ACTIVITIES WITHIN THE PROJECT AREA. REFER TO PHASING PLANS PH101 THRU PH103 FOR ADDITIONAL INFORMATION.

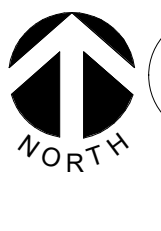
BRIEF PHASING DESCRIPTION:

- PHASE 1 - DEMOLITION AND INSTALLATION OF WEST WAREHOUSE NEW ROOF SUPERSTRUCTURE. MODIFICATION OF EXISTING EAST WAREHOUSE ROOF AND BUILDING STRUCTURE. LIMITED DEMOLITION EAST WAREHOUSE OF INTERIOR ROOMS W07-W08-W09. CONSTRUCT HVAC FROM BLDG. 1 TO WAREHOUSE.
- PHASE 2 - DEMOLITION OF WEST WAREHOUSE EXISTING ROOF/FRAMING. CONSTRUCTION OF WEST WAREHOUSE UPPER EXTERIOR WALL ENCLOSURE. LIMITED DEMOLITION OF WEST WAREHOUSE INTERIOR ROOM W03A.
- PHASE 3 - CONSTRUCTION OF NEW MEZZANINE FLOOR AND DRUG STORAGE ROOM W03A. CONSTRUCTION OF NEW OFFICE/TOILET W08-W09. NEW EXTERIOR WALL INSULATION AND FINISHES.



ROOF PLAN - DEMOLITION

1 1/8" = 1'-0"



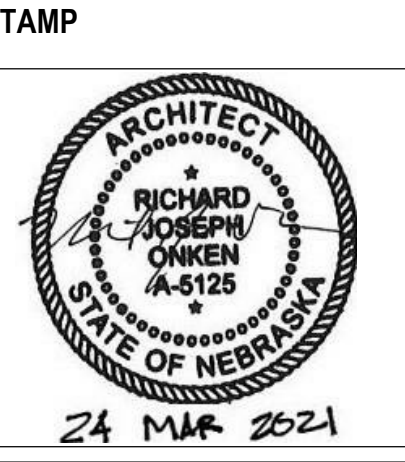
BID SET	03/24/2021
Revisions:	Date:

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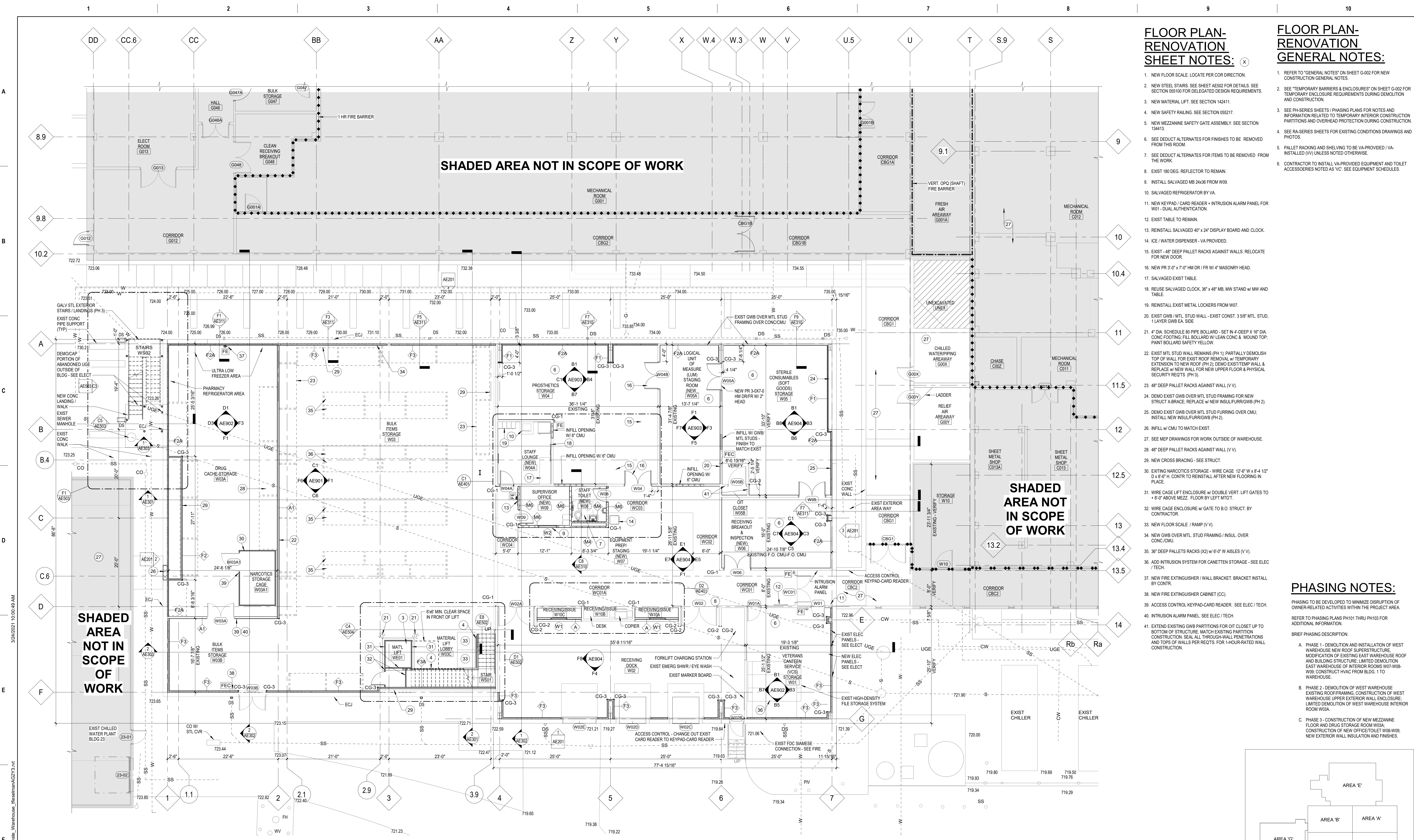
VA U.S. Department of Veterans Affairs

Drawing Title	ROOF PLAN - DEMOLITION
Phase	BID SET
Approved:	
Drawn	TJF
Checked	AHT

FULLY SPRINKLERED

Project Title	RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS	Project Number	589A4-20-158
Location	HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201	Building Number	14
Issue Date	03/24/2021	Drawn	TJF
Checked	AHT	Dwg. #	AD102
Drawn	TJF		Dwg. # 23 of 94

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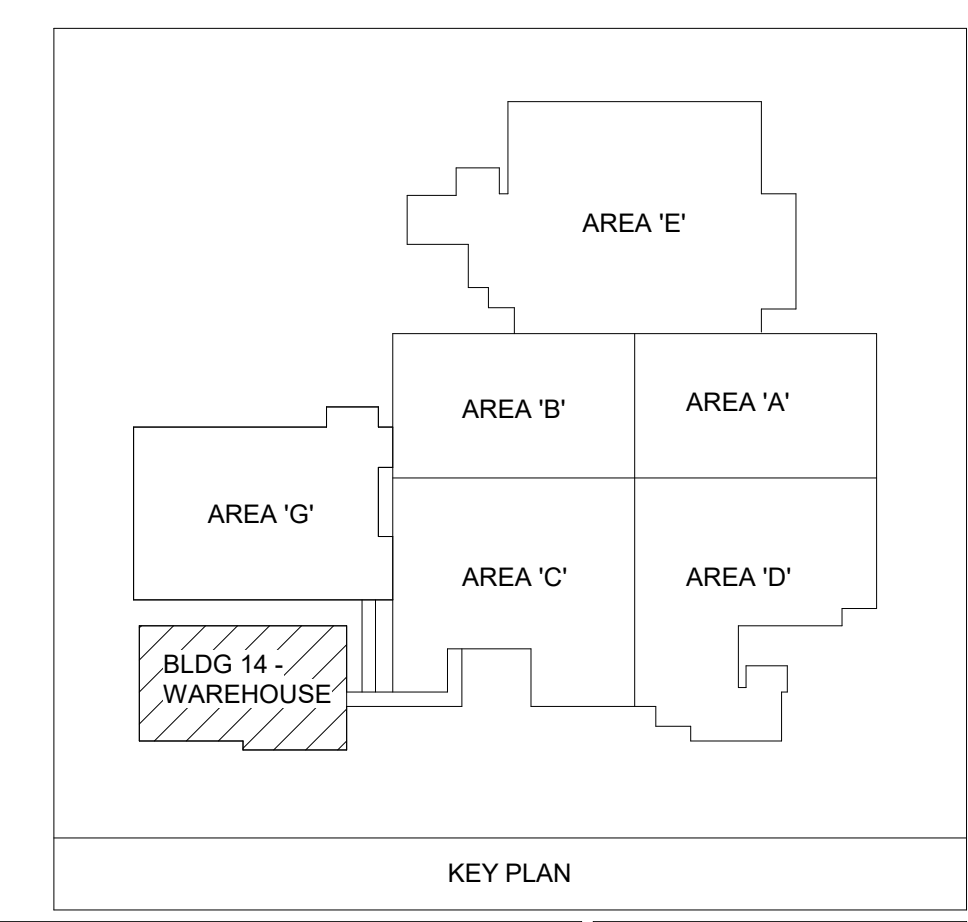


FLOOR PLAN- RENOVATION SHEET NOTES:

- NEW FLOOR SCALE. LOCATE PER COR DIRECTION.
- NEW STEEL STAIRS. SEE SHEET AE92 FOR DETAILS. SEE SECTION 05510 FOR DELEGATED DESIGN REQUIREMENTS.
- NEW MATERIAL LIFT. SEE SECTION 14241.
- NEW SAFETY RAILING. SEE SECTION 05527.
- NEW MEZZANINE SAFETY GATE ASSEMBLY. SEE SECTION 13413.
- SEE DEDUCT ALTERNATES FOR FINISHES TO BE REMOVED FROM THIS ROOM.
- SEE DEDUCT ALTERNATES FOR ITEMS TO BE REMOVED FROM THE WORK.
- EXIST 180 DEG. REFLECTOR TO REMAIN.
- INSTALL SALVAGED MB 24x36 FROM W09.
- SALVAGED REFRIGERATOR BY VA.
- NEW KEYPAD / CARD READER + INTRUSION ALARM PANEL FOR W01 - DUAL AUTHENTICATION.
- EXIST TABLE TO REMAIN.
- REINSTALL SALVAGED 40" x 24" DISPLAY BOARD AND CLOCK.
- ICE / WATER DISPENSER - VA PROVIDED.
- EXIST - 48" DEEP PALLET RACKS AGAINST WALLS. RELOCATE FOR NEW DOOR.
- NEW PR 3'0" x 7'0" HM DR / FR W/ 4" MASONRY HEAD.
- SALVAGED EXIST TABLE.
- REUSE SALVAGED CLOCK. 36" x 48" MB. MV STAND W/ MW AND TABLE.
- REINSTALL EXIST METAL LOCKERS FROM W07.
- EXIST GWB / MTL STUD WALL - EXIST CONST. 3.50" MTL. STUD. 1 LAYER GWB EA. SIDE.
- 4" DIA. SCHEDULE 80 PIPE BOLLARD - SET IN 4" DEEP x 16" DIA. CONC FOOTING. FILL BOLLARD W/ LEAN CONC & MOUND TOP. PAINT BOLLARD SAFETY YELLOW.
- EXIST MTL STUD WALL REMAINS (PH 1); PARTIALLY DEMOLISH TOP OF WALL FOR EXIST ROOF REMOVAL w/ TEMPORARY EXTENSION TO NEW ROOF. (PH 2). DEMO EXIST TEMP. WALL & REPLACE w/ NEW WALL FOR NEW UPPER FLOOR & PHYSICAL SECURITY REQTS (PH 3).
- 48" DEEP PALLET RACKS AGAINST WALL (V.V).
- DEMO EXIST GWB OVER MTL STUD FRAMING FOR NEW STRUCT X-BRACE. REPLACE w/ NEW INSULFURRIGWB (PH 2).
- DEMO EXIST GWB OVER MTL STUD FURRING OVER CMU. INSTALL NEW INSULFURRIGWB (PH 2).
- INFILL w/ CMU TO MATCH EXIST.
- SEE MEP DRAWINGS FOR WORK OUTSIDE OF WAREHOUSE.
- 48" DEEP PALLET RACKS AGAINST WALL (V.V).
- NEW CROSS BRACING - SEE STRUCT.
- EXIST NARCOTICS STORAGE - WIRE CAGE 12'-0" W x 8'-4" D x 8'-0" H. CONTR. TO REINSTALL AFTER NEW FLOORING IN PLACE.
- WIRE CAGE LIFT ENCLOSURE w/ DOUBLE VERT. LIFT GATES TO + 8'-0" ABOVE MEZZ. FLOOR BY LEFT MTGT.
- WIRE CAGE ENCLOSURE w/ GATE TO B.O. STRUCT BY CONTRACTOR.
- NEW FLOOR SCALE / RAMP (V.V).
- NEW GWB OVER MTL STUD FRAMING / INSUL OVER CONC. CMU.
- 36" DEEP PALLET RACKS (X2) w/ 6'-0" W ASLES (V.V).
- ADD INTRUSION SYSTEM FOR CANNETTEN STORAGE - SEE ELEC / TECH.
- NEW FIRE EXTINGUISHER / WALL BRACKET. BRACKET INSTALL BY CONTR.
- NEW FIRE EXTINGUISHER CABINET (CC).
- ACCESS CONTROL KEYPAD-CARD READER. SEE ELEC / TECH.
- INTRUSION ALARM PANEL. SEE ELEC / TECH.
- EXTEND EXISTING GWB PARTITIONS FOR OIT CLOSET UP TO BOTTOM OF STRUCTURE. MATCH EXISTING PARTITION CONSTRUCTION. SEAL ALL THROUGH-WALL PENETRATIONS AND TOPS OF WALLS PER REQTS. FOR 1-HOUR-RATED WALL CONSTRUCTION.

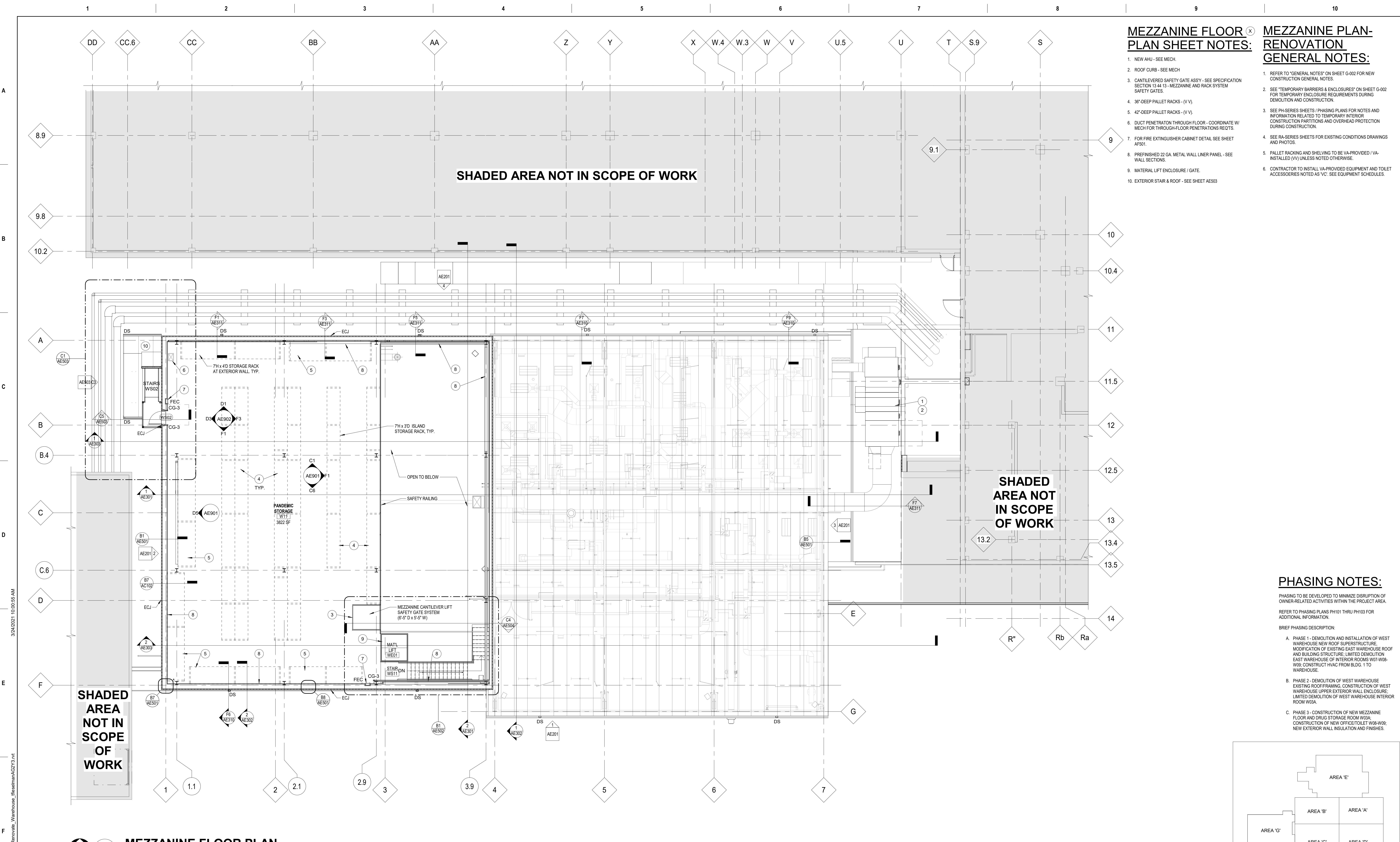
PHASING NOTES:

- PHASING TO BE DEVELOPED TO MINIMIZE DISRUPTION OF OWNER-RELATED ACTIVITIES WITHIN THE PROJECT AREA. REFER TO PHASING PLANS PH101 THRU PH103 FOR ADDITIONAL INFORMATION.
- BRIEF PHASING DESCRIPTION:
- A. PHASE 1 - DEMOLITION AND INSTALLATION OF WEST WAREHOUSE NEW ROOF SUPERSTRUCTURE. MODIFICATION OF EXISTING EAST WAREHOUSE ROOF AND BUILDING STRUCTURE. LIMITED DEMOLITION EAST WAREHOUSE OF INTERIOR ROOMS W07-W08-W09. CONSTRUCT HVAC FROM BLDG. 1 TO WAREHOUSE.
 - B. PHASE 2 - DEMOLITION OF WEST WAREHOUSE EXISTING ROOF/FRAMING. CONSTRUCTION OF WEST WAREHOUSE UPPER EXTERIOR WALL ENCLOSURE. LIMITED DEMOLITION OF WEST WAREHOUSE INTERIOR ROOM W03A.
 - C. PHASE 3 - CONSTRUCTION OF NEW MEZZANINE FLOOR AND DRUG STORAGE ROOM W03A. CONSTRUCTION OF NEW OFFICE/TOILET W08-W09. NEW EXTERIOR WALL INSULATION AND FINISHES.



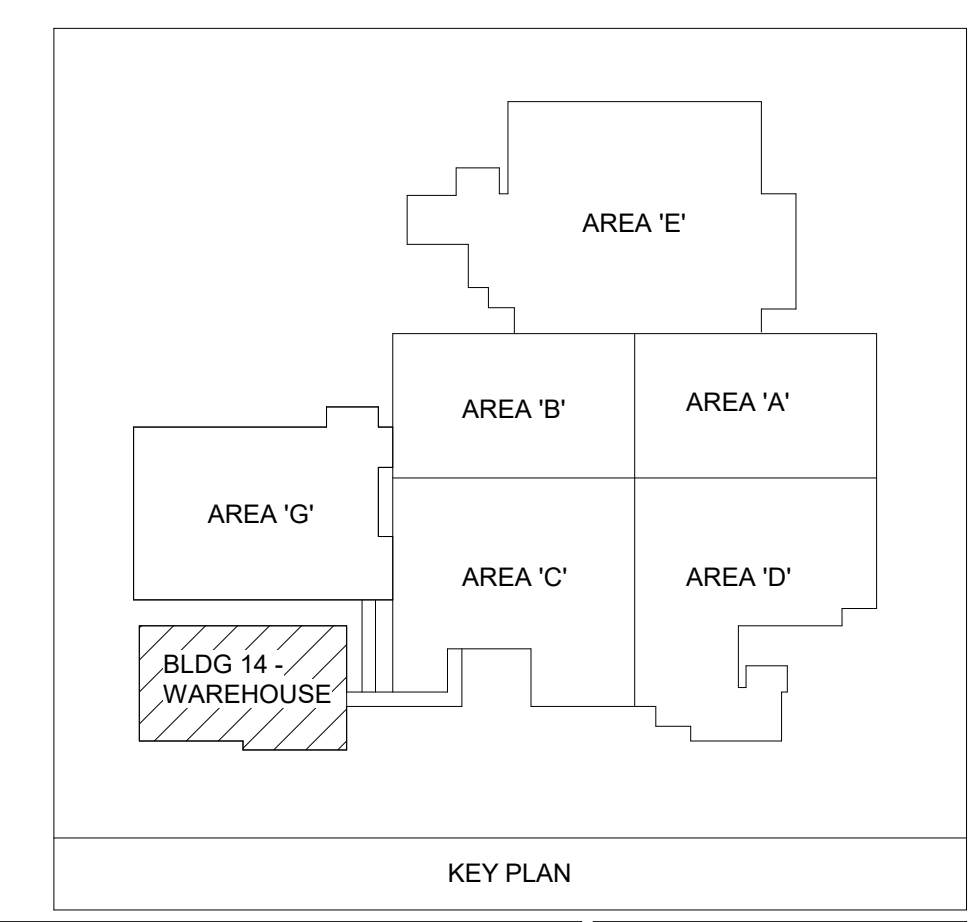
FLOOR PLAN
1
1/8" = 1'-0"

ARCHITECT/ENGINEER OF RECORD Calvin L. Hinz Architects, P.C. 3705 North 200th Street Lincoln, Nebraska 68012 Phone: 402.291.6941 Fax: 402.291.9193		IMEG IMEG Corp. 15 Summers Drive, Suite 104 St. Louis, MO 63143 Phone: (314) 954-2534		STAMP ARCHITECT RICHARD JOSEPH/OKEN A-6125 STATE OF NEBRASKA 24 MAR 2021		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title FLOOR PLAN - RENOVATION		Phase BID SET		Project Title RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS		Project Number 589A4-20-158	
BID SET Revisions:		03/24/2021 Date:		incandescence life safety a fire protection engineering firm		Approved:		FULLY SPRINKLERED		Location HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201		Building Number 14		Drawing Number AE101 Dwg. # 24 of 94	
Issue Date 03/24/2021		Checked AHT		Drawn TJF		Project Number 589A4-20-158		Building Number 14		Drawing Number AE101		Dwg. # 24 of 94			



- MEZZANINE FLOOR PLAN SHEET NOTES:**
- NEW AHU - SEE MECH.
 - ROOF CURB - SEE MECH.
 - CANTILEVERED SAFETY GATE ASSY - SEE SPECIFICATION SECTION 13.44.13 - MEZZANINE AND RACK SYSTEM SAFETY GATES.
 - 36" DEEP PALLET RACKS - (V-V).
 - 42" DEEP PALLET RACKS - (V-V).
 - DUCT PENETRATOR THROUGH FLOOR - COORDINATE W/ MECH FOR THROUGH-FLOOR PENETRATIONS REQTS.
 - FOR FIRE EXTINGUISHER CABINET DETAIL SEE SHEET AF501.
 - PREFINISHED 22 GA. METAL WALL LINER PANEL - SEE WALL SECTIONS.
 - MATERIAL LIFT ENCLOSURE / GATE.
 - EXTERIOR STAIR & ROOF - SEE SHEET AE503.
- MEZZANINE PLAN-RENOVATION GENERAL NOTES:**
- REFER TO "GENERAL NOTES" ON SHEET G-012 FOR NEW CONSTRUCTION GENERAL NOTES.
 - SEE "TEMPORARY BARRIERS & ENCLOSURES" ON SHEET G-012 FOR TEMPORARY ENCLOSURE REQUIREMENTS DURING DEMOLITION AND CONSTRUCTION.
 - SEE PH-SERIES SHEETS / PHASING PLANS FOR NOTES AND INFORMATION RELATED TO TEMPORARY INTERIOR CONSTRUCTION PARTITIONS AND OVERHEAD PROTECTION DURING CONSTRUCTION.
 - SEE RA-SERIES SHEETS FOR EXISTING CONDITIONS DRAWINGS AND PHOTOS.
 - PALLET RACKING AND SHELVING TO BE VA-PROVIDED / VA-INSTALLED (V-V) UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO INSTALL VA-PROVIDED EQUIPMENT AND TOILET ACCESSORIES NOTED AS "VC" - SEE EQUIPMENT SCHEDULES.

- PHASING NOTES:**
- PHASING TO BE DEVELOPED TO MINIMIZE DISRUPTION OF OWNER-RELATED ACTIVITIES WITHIN THE PROJECT AREA. REFER TO PHASING PLANS PH101 THRU PH103 FOR ADDITIONAL INFORMATION.
- BRIEF PHASING DESCRIPTION:
- PHASE 1 - DEMOLITION AND INSTALLATION OF WEST WAREHOUSE NEW ROOF SUPERSTRUCTURE, MODIFICATION OF EXISTING EAST WAREHOUSE ROOF AND BUILDING STRUCTURE, LIMITED DEMOLITION EAST WAREHOUSE OF INTERIOR ROOMS W07-W08-W09; CONSTRUCT HVAC FROM BLDG. 1 TO WAREHOUSE.
 - PHASE 2 - DEMOLITION OF WEST WAREHOUSE EXISTING ROOF/FRAMING, CONSTRUCTION OF WEST WAREHOUSE UPPER EXTERIOR WALL ENCLOSURE, LIMITED DEMOLITION OF WEST WAREHOUSE INTERIOR ROOM W03A.
 - PHASE 3 - CONSTRUCTION OF NEW MEZZANINE FLOOR AND DRUG STORAGE ROOM W03A, CONSTRUCTION OF NEW OFFICE/TOILET W08-W09; NEW EXTERIOR WALL INSULATION AND FINISHES.



MEZZANINE FLOOR PLAN
1
1/8" = 1'-0"

BID SET	03/24/2021
Revisions:	Date:

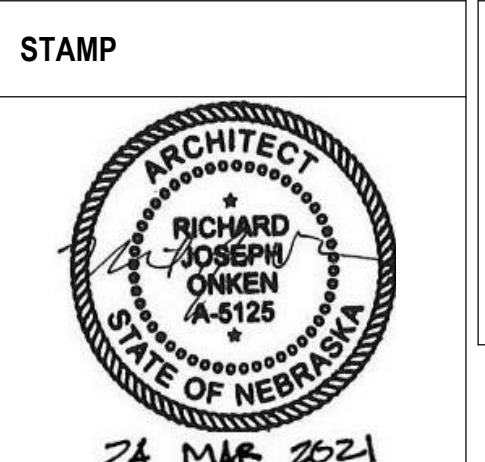
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incandescence life safety
a fire protection engineering firm



Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
MEZZANINE LEVEL PLAN - RENOVATION

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

Checked
AHT

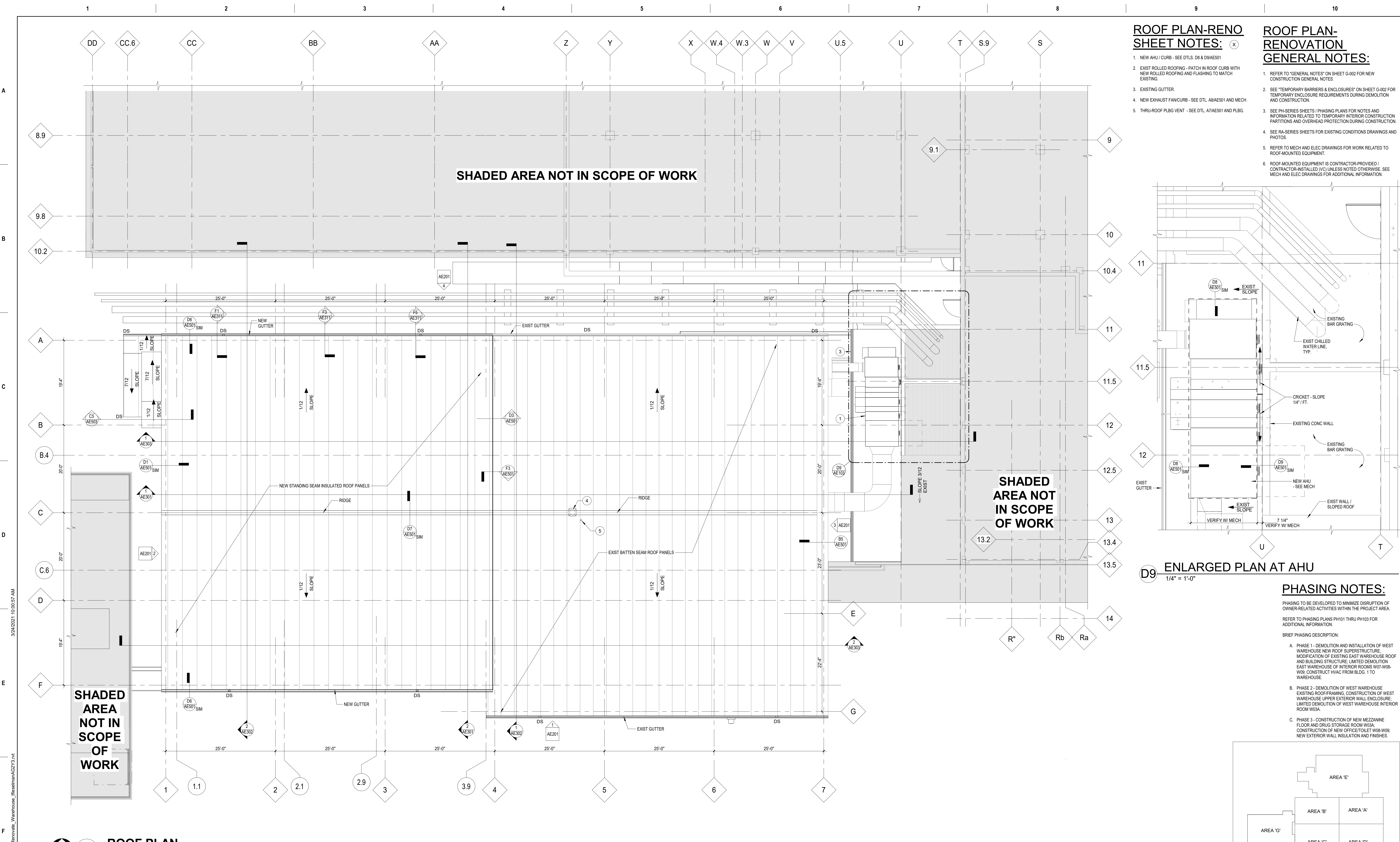
Drawn
TJF

Project Number
589A4-20-158

Building Number
14

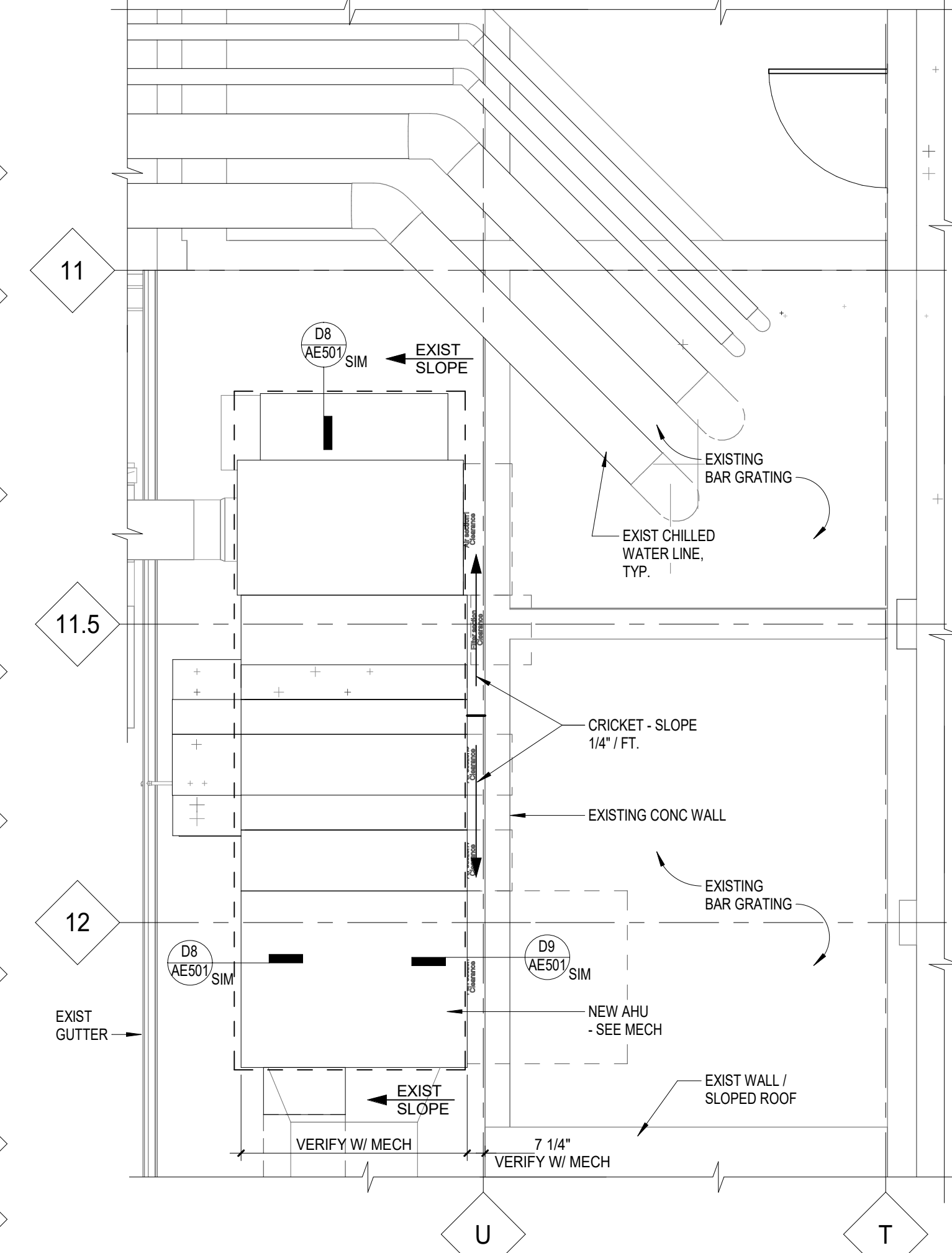
Drawing Number
AE102

Dwg. # 25 of 94



- ROOF PLAN-RENO SHEET NOTES:**
1. NEW AHU / CURB - SEE DTL. D8 & D9/AE501
 2. EXIST ROLLED ROOFING - PATCH IN ROOF CURB WITH NEW ROLLED ROOFING AND FLASHING TO MATCH EXISTING.
 3. EXISTING GUTTER
 4. NEW EXHAUST FAN/CURB - SEE DTL. A8/AE501 AND MECH.
 5. THRU-ROOF PLUG VENT - SEE DTL. A7/AE501 AND PLBG.

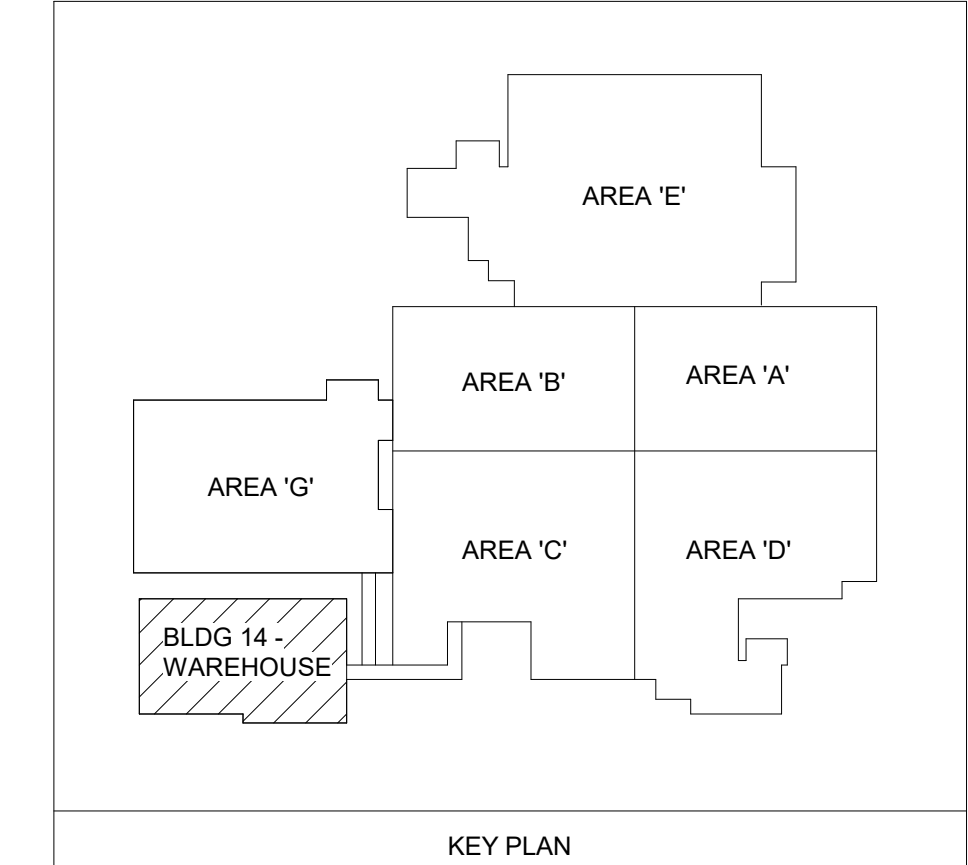
- ROOF PLAN-RENO GENERAL NOTES:**
1. REFER TO "GENERAL NOTES" ON SHEET G-002 FOR NEW CONSTRUCTION GENERAL NOTES.
 2. SEE "TEMPORARY BARRIERS & ENCLOSURES" ON SHEET G-002 FOR TEMPORARY ENCLOSURE REQUIREMENTS DURING DEMOLITION AND CONSTRUCTION.
 3. SEE PH-SERIES SHEETS / PHASING PLANS FOR NOTES AND INFORMATION RELATED TO TEMPORARY INTERIOR CONSTRUCTION PARTITIONS AND OVERHEAD PROTECTION DURING CONSTRUCTION.
 4. SEE RA-SERIES SHEETS FOR EXISTING CONDITIONS DRAWINGS AND PHOTOS.
 5. REFER TO MECH AND ELEC DRAWINGS FOR WORK RELATED TO ROOF-MOUNTED EQUIPMENT.
 6. ROOF-MOUNTED EQUIPMENT IS CONTRACTOR-PROVIDED / CONTRACTOR-INSTALLED (N/C) UNLESS NOTED OTHERWISE. SEE MECH AND ELEC DRAWINGS FOR ADDITIONAL INFORMATION.



D9 ENLARGED PLAN AT AHU
1/4" = 1'-0"

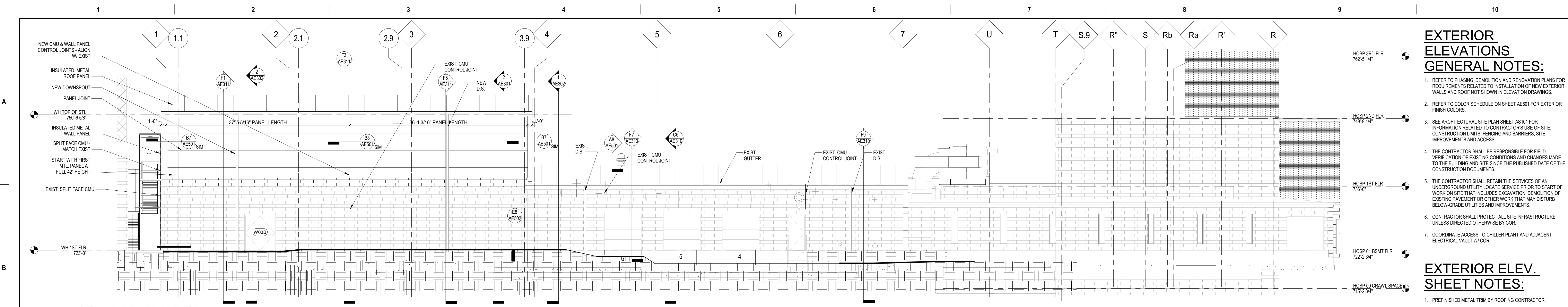
PHASING NOTES:

- PHASING TO BE DEVELOPED TO MINIMIZE DISRUPTION OF OWNER-RELATED ACTIVITIES WITHIN THE PROJECT AREA. REFER TO PHASING PLANS PH101 THRU PH103 FOR ADDITIONAL INFORMATION.
- BRIEF PHASING DESCRIPTION:
- PHASE 1 - DEMOLITION AND INSTALLATION OF WEST WAREHOUSE NEW ROOF SUPERSTRUCTURE. MODIFICATION OF EXISTING EAST WAREHOUSE ROOF AND BUILDING STRUCTURE. LIMITED DEMOLITION EAST WAREHOUSE OF INTERIOR ROOMS W07-W08-W09. CONSTRUCT HVAC FROM BLDG. 1 TO WAREHOUSE.
 - PHASE 2 - DEMOLITION OF WEST WAREHOUSE EXISTING ROOF FRAMING. CONSTRUCTION OF WEST WAREHOUSE UPPER EXTERIOR WALL ENCLOSURE. LIMITED DEMOLITION OF WEST WAREHOUSE INTERIOR ROOM W03A.
 - PHASE 3 - CONSTRUCTION OF NEW MEZZANINE FLOOR AND DRUG STORAGE ROOM W03A. CONSTRUCTION OF NEW OFFICE/TOILET W06-W09. NEW EXTERIOR WALL INSULATION AND FINISHES.



1 ROOF PLAN
1/8" = 1'-0"

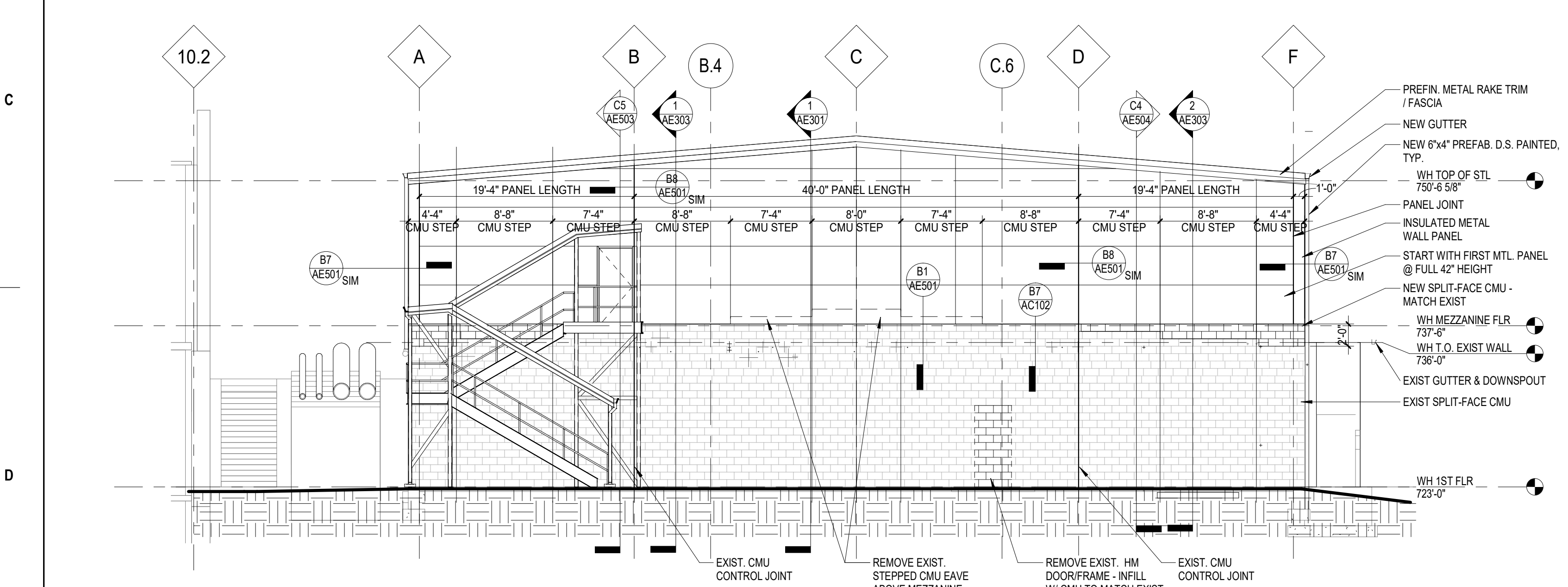
ARCHITECT/ENGINEER OF RECORD Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elkhorst, Nebraska 68023 Phone: 402.291.6941 Fax: 402.291.9193		IMEG IMEG Corp. 15 Sumner Drive, Suite 104 St. Louis, MO 63143 Phone: (314) 954-2534		STAMP 		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title ROOF PLAN - RENOVATION		Phase BID SET		Project Title RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS		Project Number 589A4-20-158	
BID SET Revisions:		03/24/2021 Date:						Approved:		FULLY SPRINKLERED		Location HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201		Building Number 14	
										Issue Date 03/24/2021		Checked AHT		Drawn TJF	
												Drawing Number AE103		Dwg. # 26 of 94	



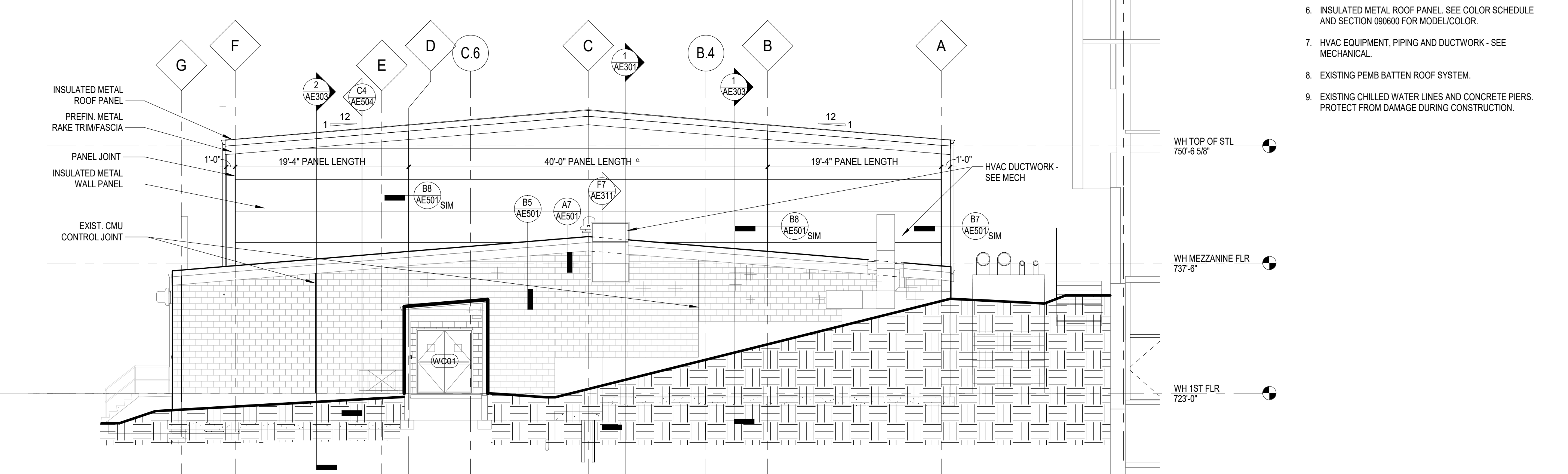
1 SOUTH ELEVATION
1/8" = 1'-0"

- EXTERIOR ELEVATIONS GENERAL NOTES:**
- REFER TO PHASING, DEMOLITION AND RENOVATION PLANS FOR REQUIREMENTS RELATED TO INSTALLATION OF NEW EXTERIOR WALLS AND ROOF NOT SHOWN IN ELEVATION DRAWINGS.
 - REFER TO COLOR SCHEDULE ON SHEET AE601 FOR EXTERIOR FINISH COLORS.
 - SEE ARCHITECTURAL SITE PLAN SHEET AS101 FOR INFORMATION RELATED TO CONTRACTOR'S USE OF SITE, CONSTRUCTION LIMITS, FENCING AND BARRIERS, SITE IMPROVEMENTS AND ACCESS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND CHANGES MADE TO THE BUILDING AND SITE SINCE THE PUBLISHED DATE OF THE CONSTRUCTION DOCUMENTS.
 - THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN UNDERGROUND UTILITY LOCATE SERVICE PRIOR TO START OF WORK ON SITE THAT INCLUDES EXCAVATION, DEMOLITION OF EXISTING PAVEMENT OR OTHER WORK THAT MAY DISTURB BELOW-GRADE UTILITIES AND IMPROVEMENTS.
 - CONTRACTOR SHALL PROTECT ALL SITE INFRASTRUCTURE UNLESS DIRECTED OTHERWISE BY COR.
 - COORDINATE ACCESS TO CHILLER PLANT AND ADJACENT ELECTRICAL VAULT W/ COR.

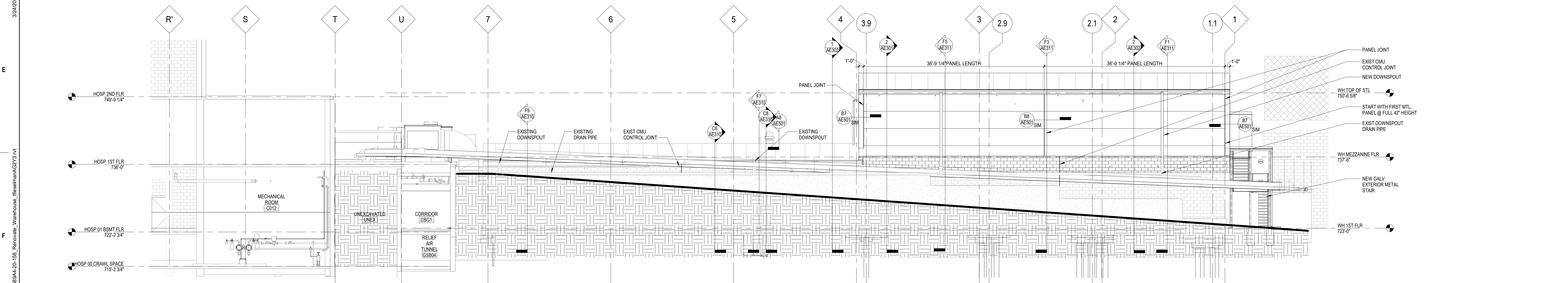
- EXTERIOR ELEV. SHEET NOTES:**
- PREFINISHED METAL TRIM BY ROOFING CONTRACTOR.
 - PREFINISHED METAL THROUGH-WALL FLASHING BY METAL WALL PANEL CONTRACTOR.
 - STEEL EXTERIOR STAIRS WITH BAR-GRATING TREADS AND LANDINGS. SEE SHEET AE503 AND STRUCTURAL FOR DETAILS. STAIRS TO BE DELEGATED DESIGN - SEE SECTION 055100.
 - EXISTING HOLLOW METAL DOORFRAME TO REMAIN. PAINT TO MATCH EXISTING.
 - INSULATED METAL WALL PANEL. SEE COLOR SCHEDULE AND SECTION 090600 FOR MODEL/COLOR.
 - INSULATED METAL ROOF PANEL. SEE COLOR SCHEDULE AND SECTION 090600 FOR MODEL/COLOR.
 - HVAC EQUIPMENT, PIPING AND DUCTWORK - SEE MECHANICAL.
 - EXISTING PEMB BATTEN ROOF SYSTEM.
 - EXISTING CHILLED WATER LINES AND CONCRETE PIERS. PROTECT FROM DAMAGE DURING CONSTRUCTION.



2 WEST ELEVATION
1/8" = 1'-0"



3 EAST ELEVATION
1/8" = 1'-0"



4 NORTH ELEVATION
1/8" = 1'-0"

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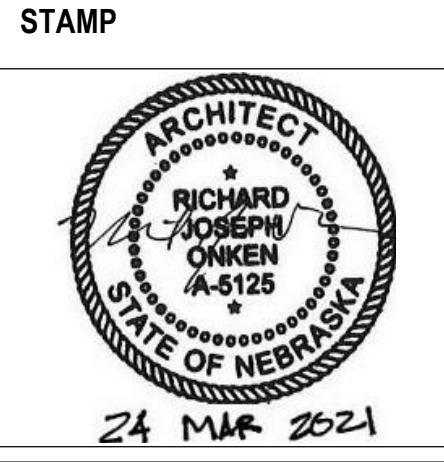
BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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a fire protection engineering firm



Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
EXTERIOR ELEVATIONS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

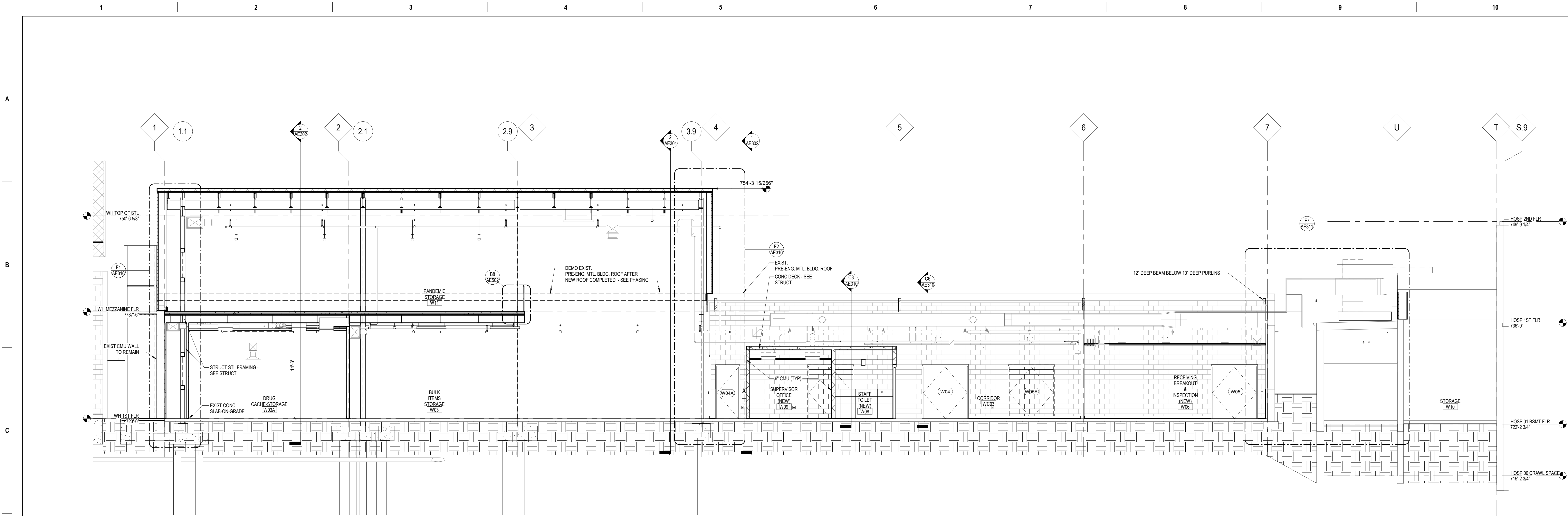
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CLH

Drawn
RJR

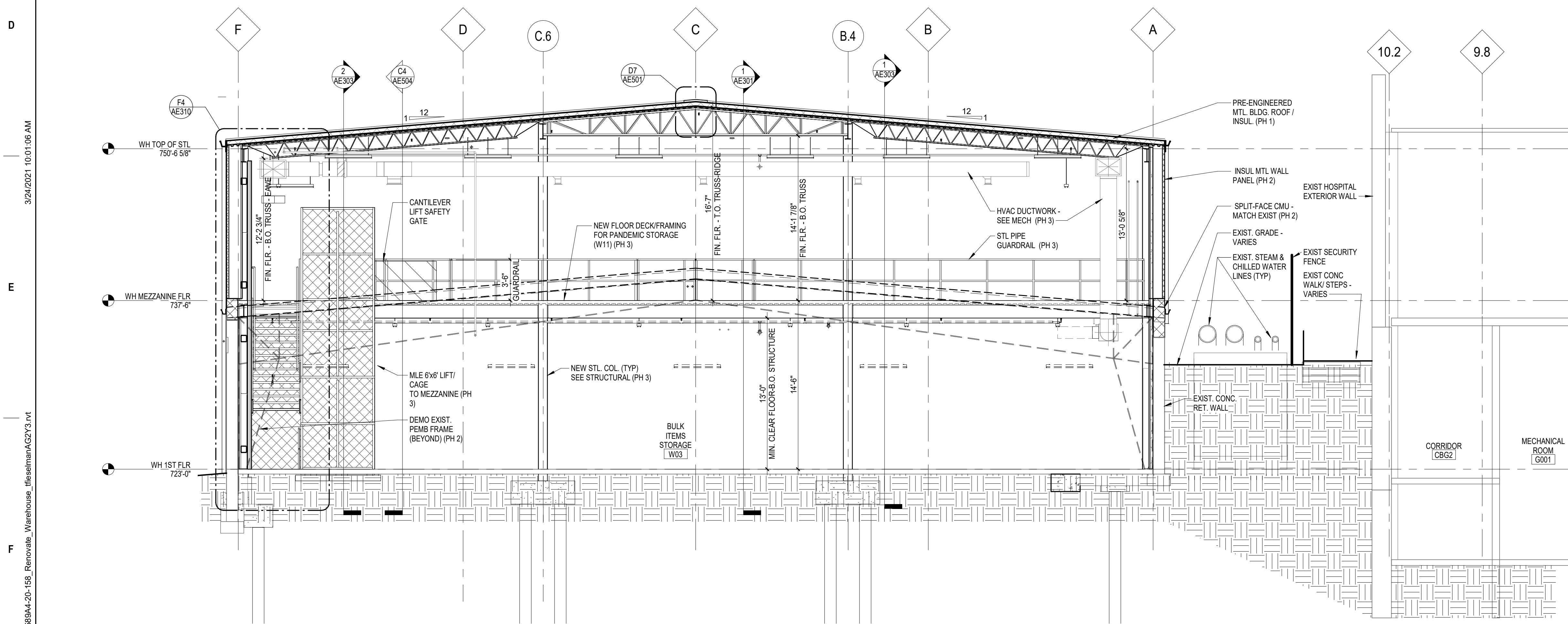
Project Number
589A4-20-158

Building Number
14

Drawing Number
AE201
Dwg. # 27 of 94



1 BUILDING SECTION
3/16" = 1'-0"



2 BUILDING SECTION
3/16" = 1'-0"

BLDG. SECTION SHEET NOTES:

- EXISTING PEMB ROOF TO REMAIN.
- EXISTING SPLIT-FACED CMU TO REMAIN.
- PREFINISHED METAL TRIM BY METAL WALL PANEL MFG.
- PREFINISHED METAL TRIM BY METAL ROOF PANEL MFG.
- EXISTING CHILLED WATER LINES - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING SECURITY FENCE - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- FLASHING/COUNTERFLASHING AT ROOF TRANSITION - SEE EXTERIOR DETAILS SHEET.
- EXISTING PEMB FRAME TO REMAIN.
- EXISTING PEMB FRAME TO REMOVE - SEE STRUCTURAL.
- NEW STRUCTURAL STEEL FRAMING - SEE STRUCTURAL.
- NEW STAIR ASSEMBLY - SEE SPECIFICATION 05510 FOR DELEGATED DESIGN.
- EXISTING PEMB ROOF INSULATION/FRAMING TO REMOVE - SEE STRUCTURAL AND PHASING PLANS.
- NEW AIR HANDLING UNIT ON TOP OF EXISTING CORRIDOR ROOF - SEE MECHANICAL.
- NEW HVAC DUCTWORK/PIPPING THROUGH EXISTING CONSTRUCTION - SEE MECHANICAL.

BUILDING SECTION GENERAL NOTES:

- REFER TO PHASING, DEMOLITION AND RENOVATION PLANS FOR REQUIREMENTS RELATED TO INSTALLATION OF NEW EXTERIOR WALLS AND ROOF NOT SHOWN IN WALL SECTIONS.
- REFER TO COLOR SCHEDULE AND ROOM FINISH SCHEDULE ON SHEET AE01 FOR INTERIOR AND EXTERIOR FINISH COLORS.
- SEE ARCHITECTURAL SITE PLAN SHEET AS101 FOR INFORMATION RELATED TO CONTRACTOR'S USE OF SITE, PROTECTION OF EXISTING UTILITIES, CONSTRUCTION LIMITS, FENCING AND BARRIERS, SITE IMPROVEMENTS AND ACCESS.
- REFER TO "TEMPORARY BARRIERS AND ENCLOSURES" NOTES ON SHEET G-002 FOR TEMPORARY ENCLOSURE, PROTECTION OF EXISTING UTILITIES AND PROTECTION OF THE BUILDING INTERIOR DURING DEMOLITION AND CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND CHANGES MADE TO THE BUILDING AND SITE SINCE THE PUBLISHED DATE OF THE CONSTRUCTION DOCUMENTS.
- BELOW-GRADE CONDITIONS SHOWN ARE BASED UPON AS-BUILT DRAWINGS PROVIDED BY THE VA. VARIATION OF EXISTING CONDITIONS WHICH DIFFER FROM THOSE SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE COR UPON DISCOVERY.
- THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN UNDERGROUND UTILITY LOCATE SERVICE PRIOR TO START OF WORK ON SITE THAT INCLUDES EXCAVATION, DEMOLITION OF EXISTING PAVEMENT OR OTHER WORK THAT MAY DISTURB BELOW-GRADE UTILITIES AND IMPROVEMENTS.
- CONTRACTOR SHALL PROTECT ALL SITE INFRASTRUCTURE UNLESS DIRECTED OTHERWISE BY COR.
- COORDINATE ACCESS TO CHILLER PLANT AND ADJACENT ELECTRICAL VAULT W/ COR.

BID SET	03/24/2021
Revisions:	Date:

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STAMP

ARCHITECT
RICHARD JOSEPH/ O'NEKIN
A-6125
STATE OF MISSOURI
24 MAR 2021

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING SECTIONS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
03/24/2021

Checked
AHT

Drawn
RJR

Project Number
589A4-20-158

Building Number
14

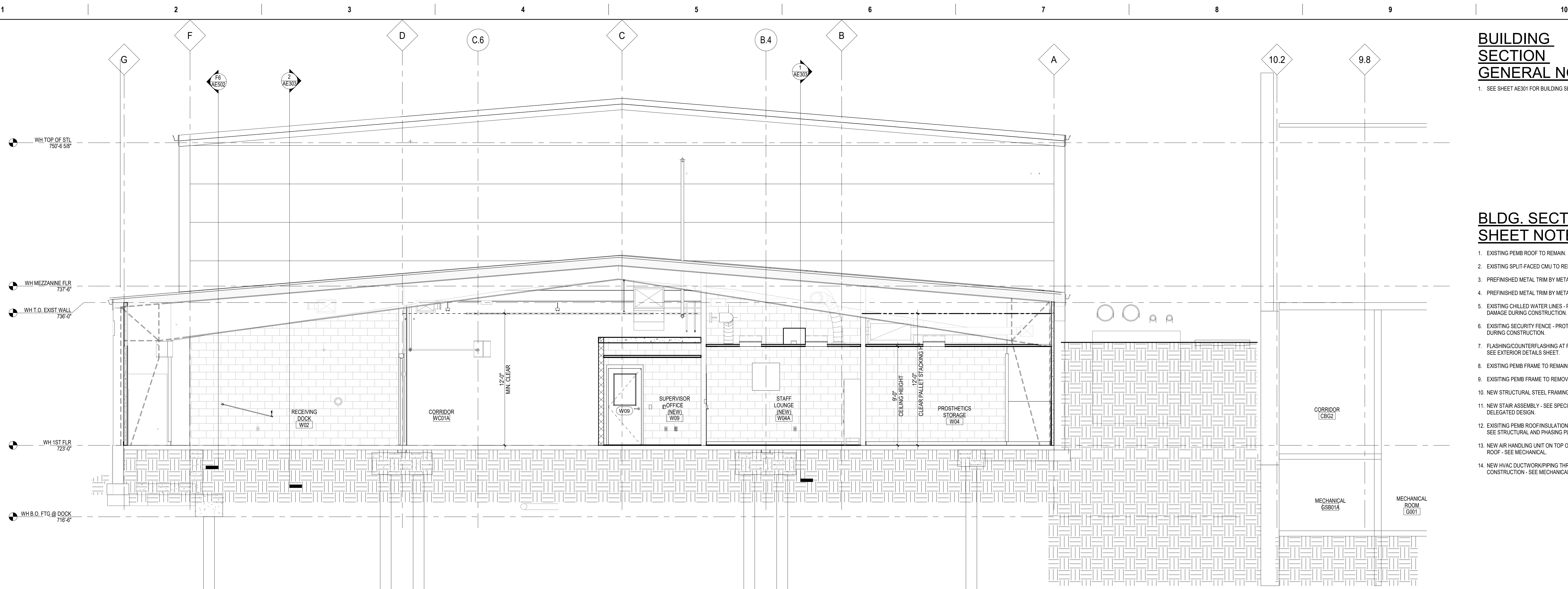
Drawing Number
AE301
Dwg. # 28 of 94

BUILDING SECTION GENERAL NOTES:

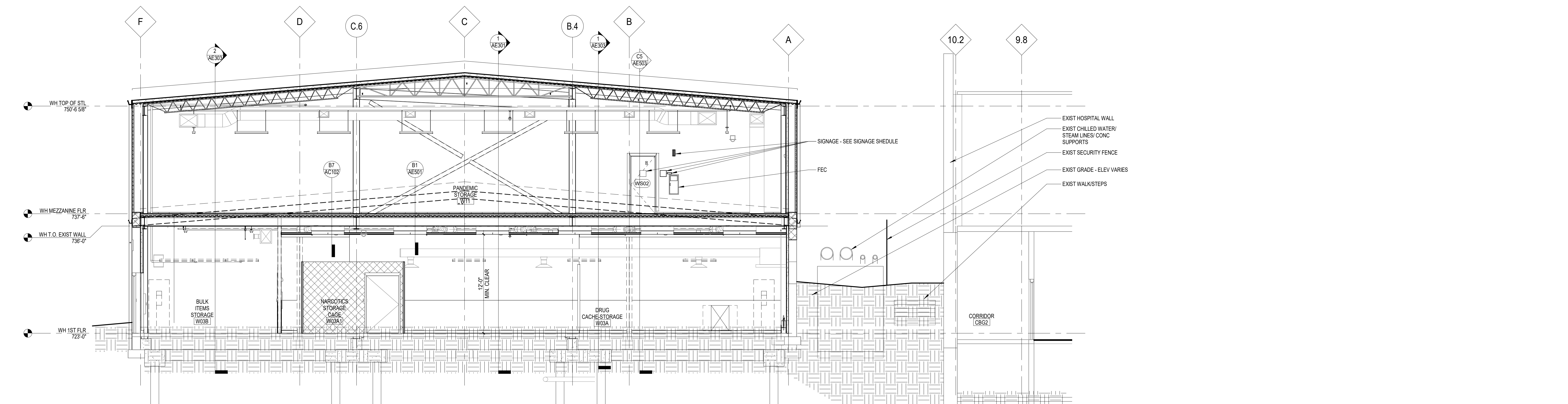
1. SEE SHEET AE301 FOR BUILDING SECTION GENERAL NOTES.

BLDG. SECTION SHEET NOTES:

- EXISTING PEMB ROOF TO REMAIN.
- EXISTING SPLIT-FACED CMU TO REMAIN.
- PREFINISHED METAL TRIM BY METAL WALL PANEL MFR.
- PREFINISHED METAL TRIM BY METAL WALL PANEL MFR.
- EXISTING CHILLED WATER LINES - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING SECURITY FENCE - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- FLASHING/COUNTERFLASHING AT ROOF TRANSITION - SEE EXTERIOR DETAILS SHEET.
- EXISTING PEMB FRAME TO REMAIN.
- EXISTING PEMB FRAME TO REMOVE - SEE STRUCTURAL.
- NEW STRUCTURAL STEEL FRAMING - SEE STRUCTURAL.
- NEW STAIR ASSEMBLY - SEE SPECIFICATION 005510 FOR DELEGATED DESIGN.
- EXISTING PEMB ROOF INSULATION/FRAMING TO REMOVE - SEE STRUCTURAL AND PHASING PLANS.
- NEW AIR HANDLING UNIT ON TOP OF EXISTING CORRIDOR ROOF - SEE MECHANICAL.
- NEW HVAC DUCTWORK/PIPING THROUGH EXISTING CONSTRUCTION - SEE MECHANICAL.



1 CROSS SECTION - LOADING DOCK W02 - STORAGE W04
1/4" = 1'-0"



2 CROSS SECT. - WAREHOUSE W03B - DRUG STORAGE W03
3/16" = 1'-0"

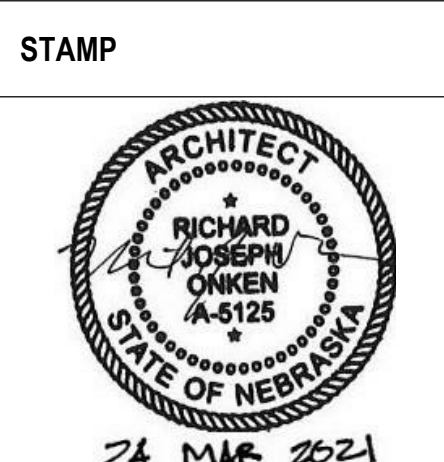
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BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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a fire protection engineering firm



Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
BUILDING SECTIONS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
03/24/2021

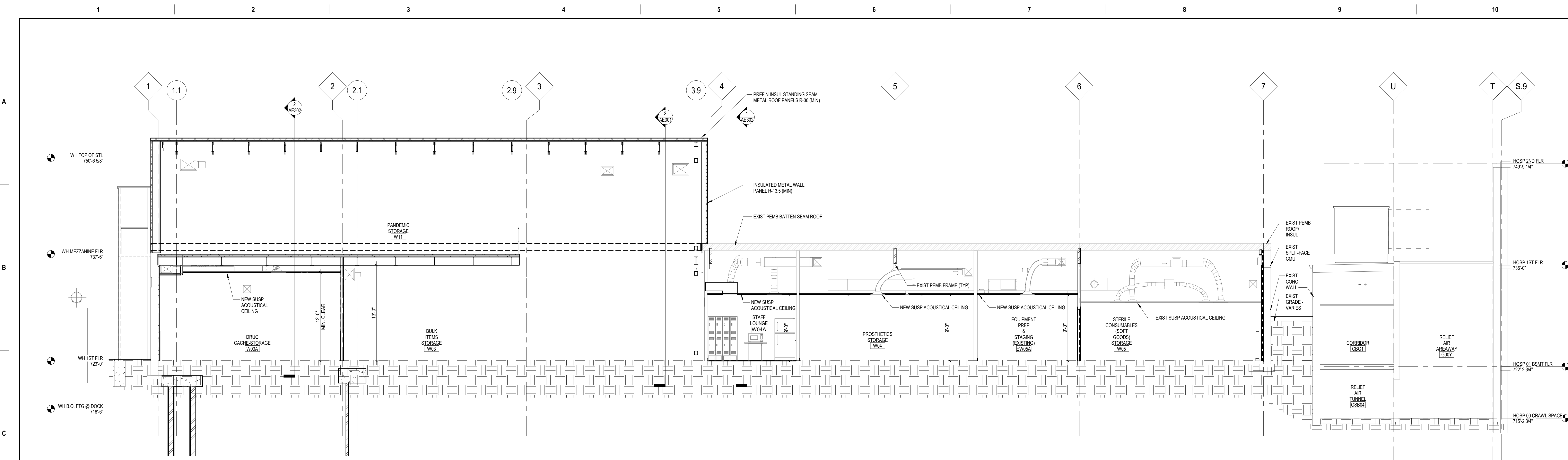
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Drawn
RJR / T/JF

Project Number
589A4-20-158

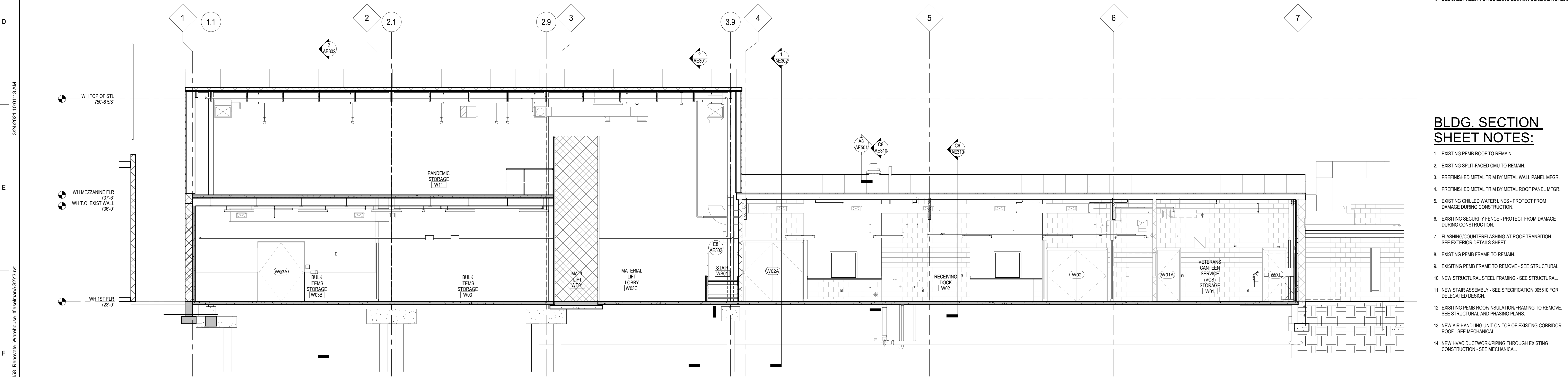
Building Number
14

Drawing Number
AE302
Dwg. # 29 of 94



1 BUILDING SECTION THRU NORTH ROOMS
3/16" = 1'-0"

BUILDING SECTION GENERAL NOTES:
1. SEE SHEET AE301 FOR BUILDING SECTION GENERAL NOTES.



2 BUILDING SECTION - W03B - W03 - W02 - W01
3/16" = 1'-0"

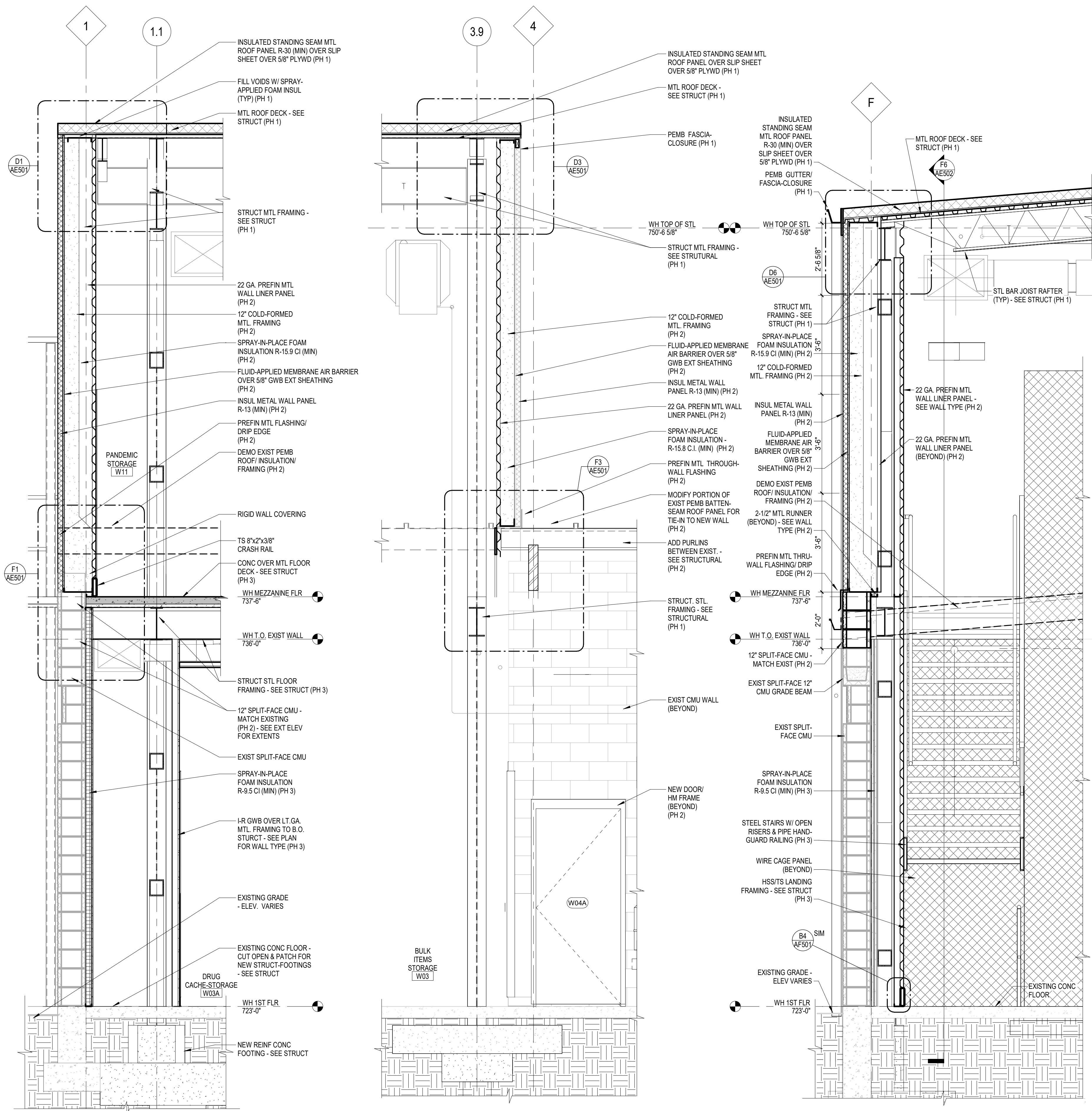
BLDG. SECTION SHEET NOTES:

- EXISTING PEMB ROOF TO REMAIN.
- EXISTING SPLIT-FACED CMU TO REMAIN.
- PREFINISHED METAL TRIM BY METAL WALL PANEL MFR.
- PREFINISHED METAL TRIM BY METAL ROOF PANEL MFR.
- EXISTING CHILLED WATER LINES - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- EXISTING SECURITY FENCE - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- FLASHING/COUNTERFLASHING AT ROOF TRANSITION - SEE EXTERIOR DETAILS SHEET.
- EXISTING PEMB FRAME TO REMAIN.
- EXISTING PEMB FRAME TO REMOVE - SEE STRUCTURAL.
- NEW STRUCTURAL STEEL FRAMING - SEE STRUCTURAL.
- NEW STAIR ASSEMBLY - SEE SPECIFICATION 005510 FOR DELEGATED DESIGN.
- EXISTING PEMB ROOF INSULATION/FRAMING TO REMOVE - SEE STRUCTURAL AND PHASING PLANS.
- NEW AIR HANDLING UNIT ON TOP OF EXISTING CORRIDOR ROOF - SEE MECHANICAL.
- NEW HVAC DUCTWORK/RIPPING THROUGH EXISTING CONSTRUCTION - SEE MECHANICAL.

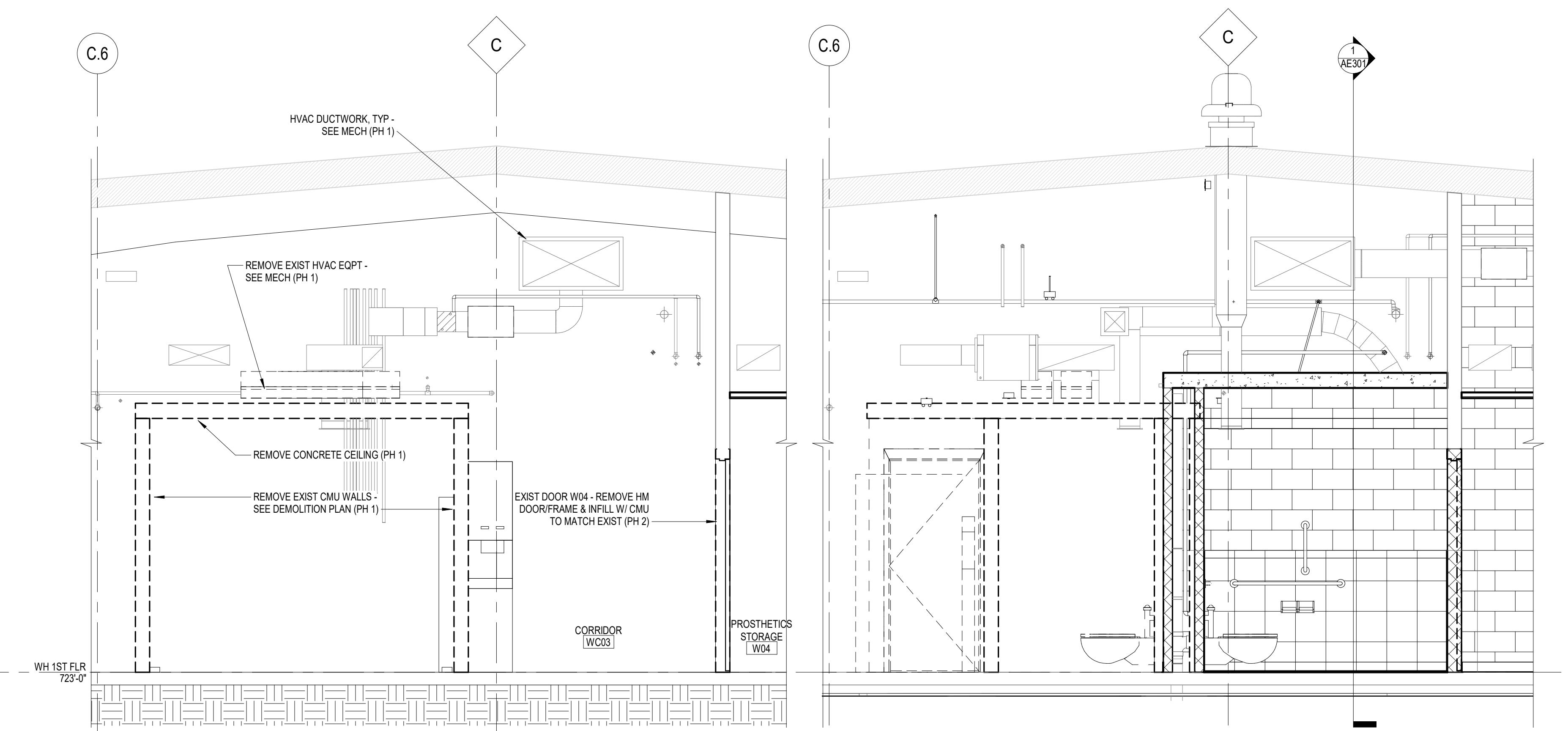
BID SET Revisions:	03/24/2021 Date:	ARCHITECT/ENGINEER OF RECORD CLH Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elkhor n., Nebraska 68022 Phone: 402.291.6941 Fax: 402.291.9193	IMEG Incandescence Life Safety, Inc. 2025 Douglas Court, #400, Denver, CO 80210 Phone: (314) 722-8010 incandescence life safety a fire protection engineering firm	STAMP ARCHITECT RICHARD JOSEPH/OKEN A-6125 STATE OF NEBRASKA 24 MAR 2021	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title BUILDING SECTIONS	Phase BID SET	Project Title RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS	Project Number 589A4-20-158
	Approved:					Fully Sprinklered FULLY SPRINKLERED	Location HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201	Building Number 14	
						Issue Date 03/24/2021	Checked AHT	Drawn TJF	Drawing Number AE303 Dwg. # 30 of 94

**WALL SECTIONS
GENERAL NOTES:**

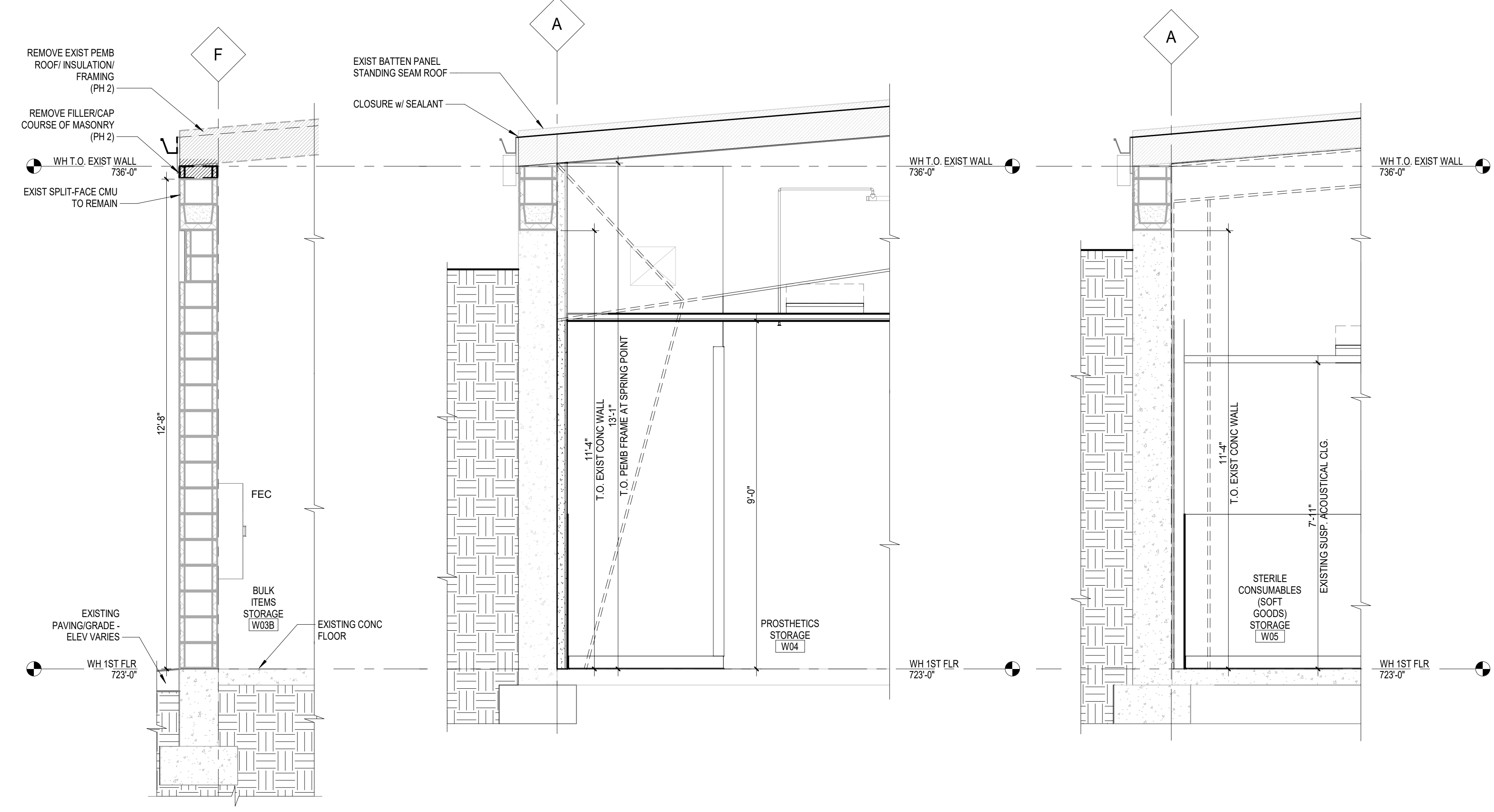
- REFER TO PHASING, DEMOLITION AND RENOVATION PLANS FOR REQUIREMENTS RELATED TO INSTALLATION OF NEW EXTERIOR WALLS AND ROOF NOT SHOWN IN WALL SECTIONS.
- REFER TO COLOR SCHEDULE AND ROOM FINISH SCHEDULE ON SHEET AE501 FOR INTERIOR AND EXTERIOR FINISH COLORS.
- SEE ARCHITECTURAL SITE PLAN SHEET AS101 FOR INFORMATION RELATED TO CONTRACTOR'S USE OF SITE, PROTECTION OF EXISTING UTILITIES, CONSTRUCTION LIMITS, FENCING AND BARRIERS, SITE IMPROVEMENTS AND ACCESS.
- REFER TO "TEMPORARY BARRIERS AND ENCLOSURES" NOTES ON SHEET G-002 FOR TEMPORARY ENCLOSURE, PROTECTION OF EXISTING UTILITIES AND PROTECTION OF THE BUILDING INTERIOR DURING DEMOLITION AND CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND CHANGES MADE TO THE BUILDING AND SITE SINCE THE PUBLISHED DATE OF THE CONSTRUCTION DOCUMENTS.
- BELOW-GRADE CONDITIONS SHOWN ARE BASED UPON AS-BUILT DRAWINGS PROVIDED BY THE VA. VARIATION OF EXISTING CONDITIONS WHICH DIFFER FROM THOSE SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE COR UPON DISCOVERY.
- THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN UNDERGROUND UTILITY LOCATE SERVICE PRIOR TO START OF WORK ON SITE THAT INCLUDES EXCAVATION, DEMOLITION OF EXISTING PAVEMENT OR OTHER WORK THAT MAY DISTURB BELOW-GRADE UTILITIES AND IMPROVEMENTS.
- CONTRACTOR SHALL PROTECT ALL SITE INFRASTRUCTURE UNLESS DIRECTED OTHERWISE BY COR.
- COORDINATE ACCESS TO CHILLER PLANT AND ADJACENT ELECTRICAL VAULT W/ COR.



F1 WALL SECN - WEST EXT WALL 1/2" = 1'-0"
F2 WALL SECN - ROOF TRANSITION 1/2" = 1'-0"
F4 WALL SECN - SOUTH EXT. WALL 1/2" = 1'-0"



C6 WALL SECN - DEMO - SUPERV. OFC W09 (W07 SIM) 3/8" = 1'-0"
C8 WALL SECN - DEMO & RENO - TOILET W08 3/8" = 1'-0"



F6 TYP. WALL SECN - DEMO. 1/2" = 1'-0"
F7 WALL SECN - N. WALL AT W04 1/2" = 1'-0"
F9 WALL SECN - N. WALL AT W05 1/2" = 1'-0"

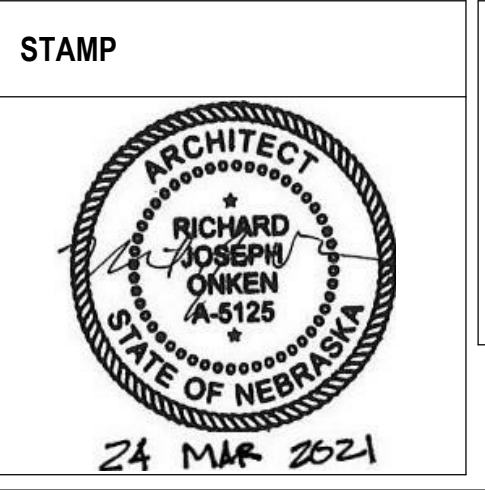
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 VA FORM 08-6231

BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD
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incandescence life safety
 a fire protection engineering firm



Office of Construction and Facilities Management
 VA U.S. Department of Veterans Affairs

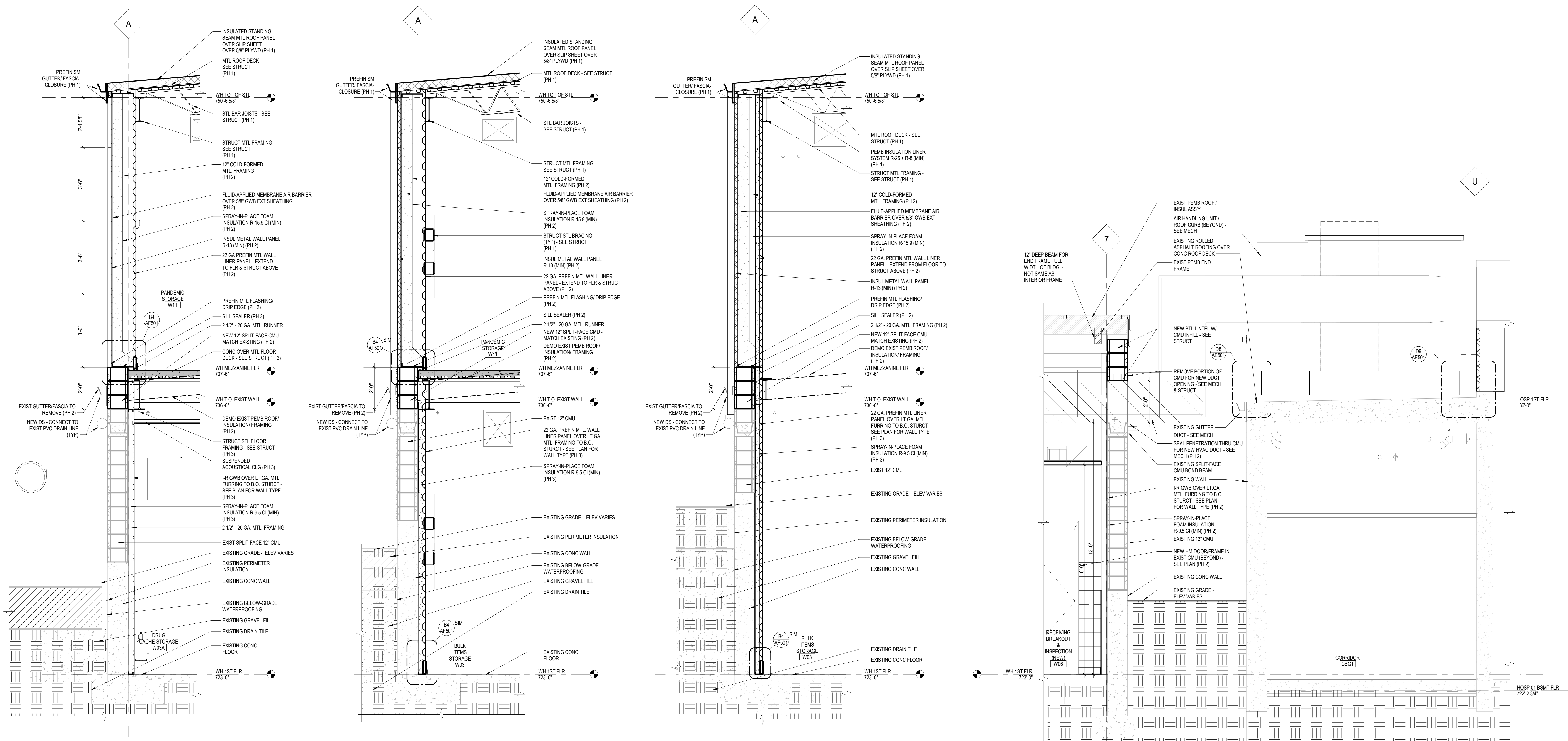
Drawing Title	WALL SECTIONS
Approved:	

Phase	BID SET
	FULLY SPRINKLERED

Project Title	RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS		Project Number	589A4-20-158
Location	HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201		Building Number	14
Issue Date	03/24/2021	Checked	AHT	Drawn
			TJF	Drawing Number
				AE310
				Dwg. # 31 of 94

**WALL SECTIONS
GENERAL NOTES:**

WALL SECTIONS GENERAL NOTES AE311:
1. SEE SHEET AE310 FOR WALL SECTIONS GENERAL NOTES.



F1 WALL SECN - N. WALL AT W03A-W11
1/2" = 1'-0"

F3 WALL SECN - N. WALL AT W03-W11
1/2" = 1'-0"

F5 WALL SECN - N. WALL AT W03 OPEN BAY
1/2" = 1'-0"

F7 WALL SECN - E. WALL AT W06
1/2" = 1'-0"

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VA FORM 08-6231

BID SET	03/24/2021
Revisions:	Date:

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ARCHITECT
RICHARD JOSEPH/JOHN A-6125
STATE OF NEW YORK
24 MAR 2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
WALL SECTIONS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

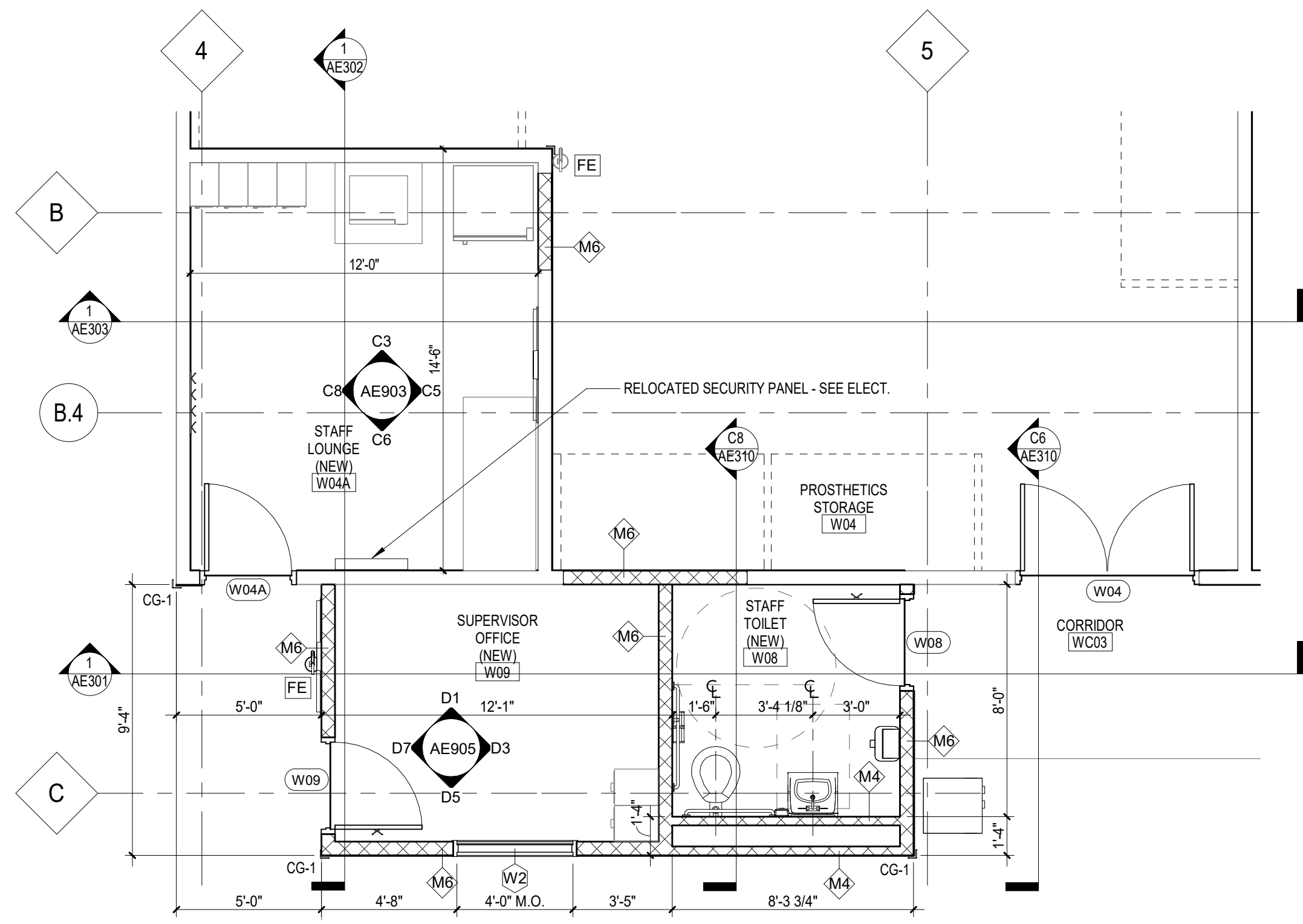
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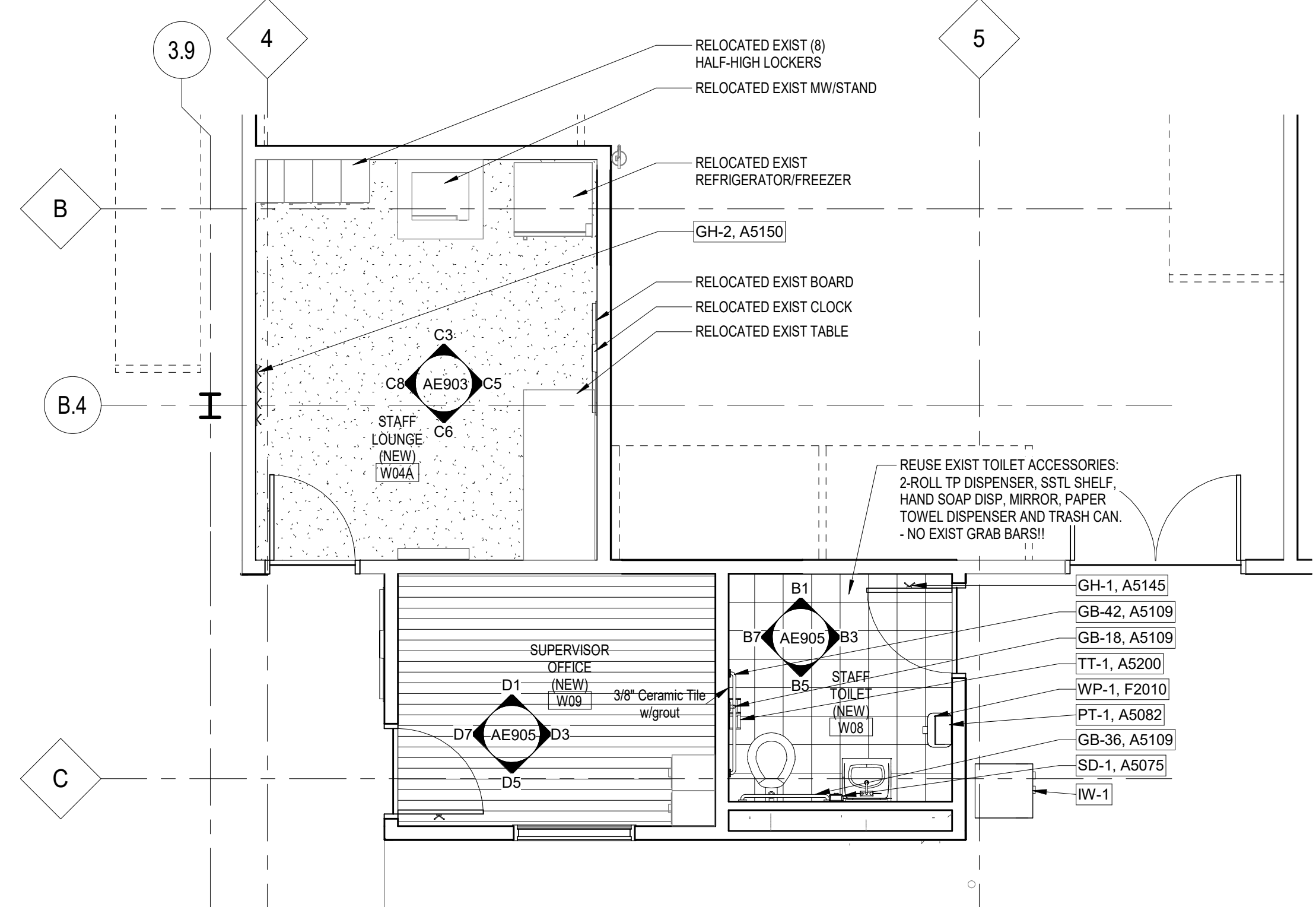
Project Number
589A4-20-158

Building Number
14

Drawing Number
AE311
Dwg. # 32 of 94



RESTROOM (W08), OFFICE (W09) & LOUNGE (W04A)
ENLARGED FLOOR PLAN
 C1 1/4" = 1'-0"



ENLARGED EQUIPMENT / FINISH PLAN ROOMS W04A, W08 & W09
 C5 1/4" = 1'-0"

EQUIPMENT SCHEDULE				
KEY	JSN	DESCRIPTION	PROVIDED	INSTALLED
GB-18	A5109	GRAB BAR 18"	C	C
GB-36	A5109	GRAB BAR 36"	C	C
GB-42	A5109	GRAB BAR 42"	C	C
GH-1	A5145	GARMENT HOOK - DOOR-MTD.	C	C
GH-2	A5150	GARMENT 4 HOOK - WALL-MTD.	C	C
IW-1	Uxxxx	ICE & WATER DISPENSER	V	C
MR-1	A1067	MIRROR 24"W X 36"H	C	C
PT-1	A5082	PAPER TOWEL DISPENSER	V	C
RF-2	R5100	REFRIGERATOR / FREEZER	V	V
SD-1	A5075	SOAP DISPENSER	V	V
TT-1	A5200	TOILET TISSUE DISPENSER	V	C
WP-1	F2010	WASTE PAPER BASKET	V	V

LARGE-SCALE PLANS & DETAILS GENERAL NOTES:

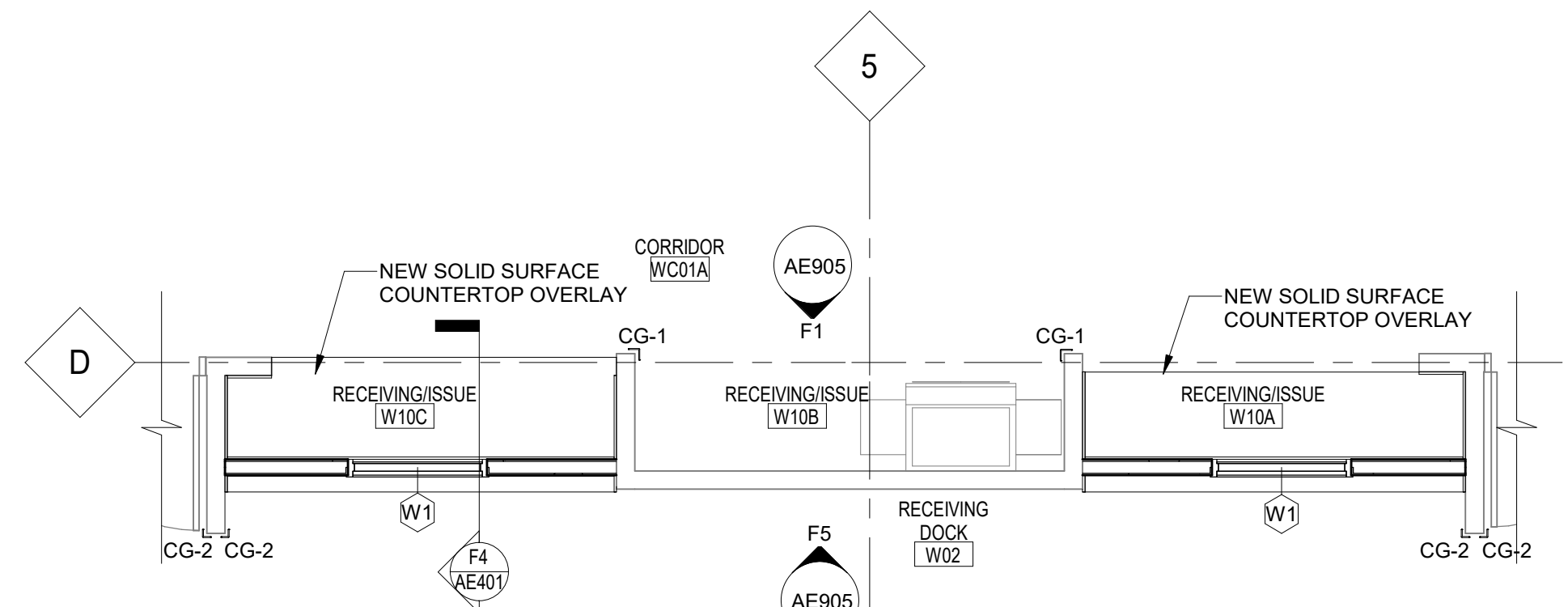
- REFER TO PHASING, DEMOLITION AND RENOVATION PLANS FOR REQUIREMENTS RELATED TO INSTALLATION OF NEW INTERIOR WALLS AND ROOF MODIFICATIONS.
- REFER TO COLOR SCHEDULE AND ROOM FINISH SCHEDULE ON SHEET AE01 FOR INTERIOR AND EXTERIOR FINISH COLORS.
- REFER TO TEMPORARY BARRIERS AND ENCLOSURES' NOTES ON SHEET G-002 FOR TEMPORARY ENCLOSURE, PROTECTION OF EXISTING UTILITIES AND PROTECTION OF THE BUILDING INTERIOR DURING DEMOLITION AND CONSTRUCTION.
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LARGE SCALE PLANS & DETAILS SHEET NOTES:

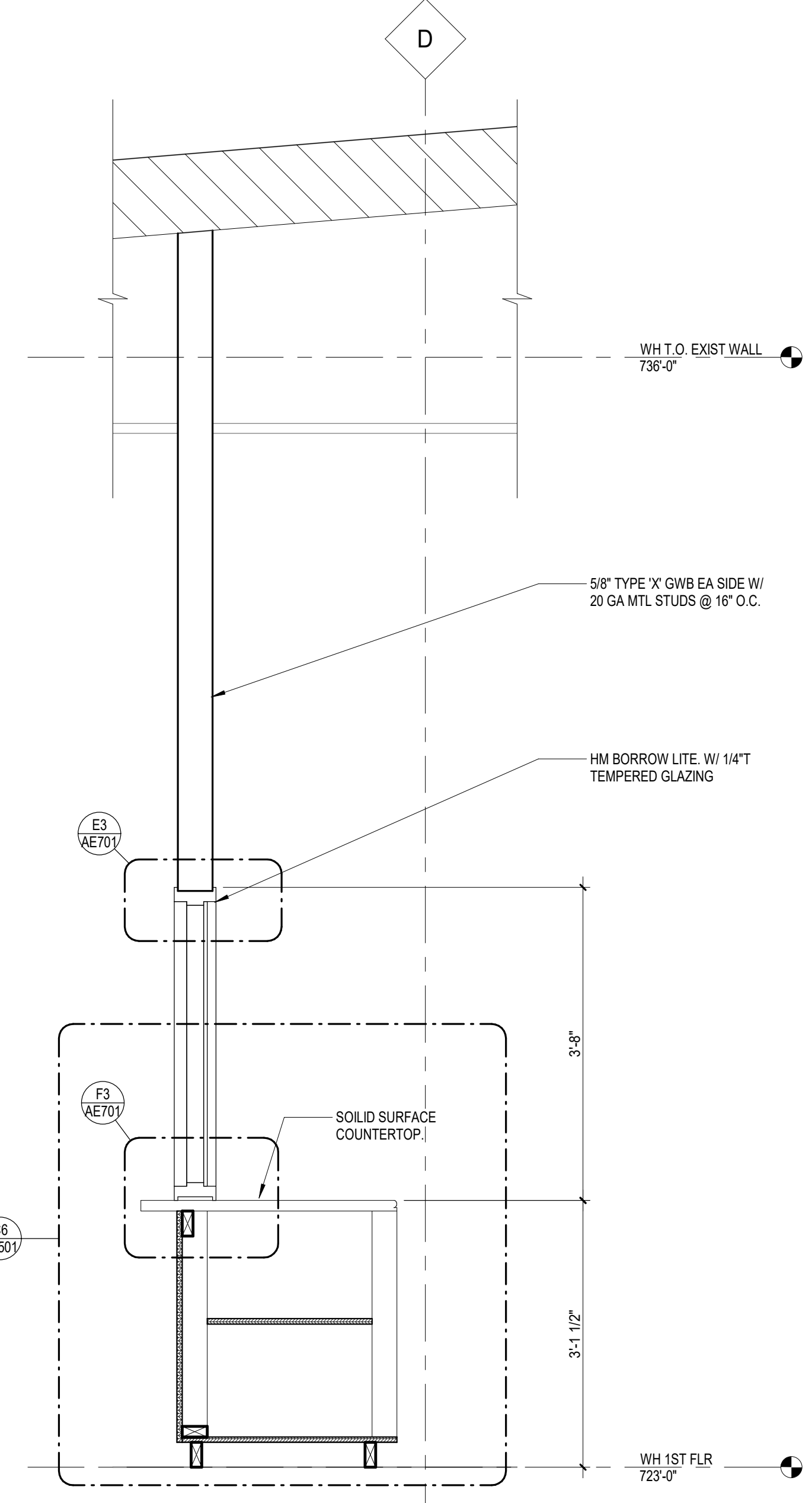
- FLOOR FINISH TRANSITION - REFER TO SHEET AF01 FOR DETAILS AND ROOM FINISH SCHEDULE FOR FINISH FLOORING TO BE USED.
- PLUMBING FIXTURE - REFER TO PLUMBING DRAWINGS FOR FIXTURE TYPE.
- TOP OF CERAMIC TILE WALL TO HAVE BULLNOSED CAP MATCHING CERAMIC TILE.

PHASING NOTES:

- PHASING TO BE DEVELOPED TO MINIMIZE DISRUPTION OF OWNER-RELATED ACTIVITIES WITHIN THE PROJECT AREA. REFER TO PHASING PLANS PH101 THRU PH103 FOR ADDITIONAL INFORMATION.
- BRIEF PHASING DESCRIPTION:
- PHASE 1 - DEMOLITION AND INSTALLATION OF WEST WAREHOUSE NEW ROOF SUPERSTRUCTURE. MODIFICATION OF EXISTING EAST WAREHOUSE ROOF AND BUILDING STRUCTURE. LIMITED DEMOLITION EAST WAREHOUSE OF INTERIOR ROOMS W07-W08. W08 CONSTRUCT HVAC FROM BLDG. 1 TO WAREHOUSE.
 - PHASE 2 - DEMOLITION OF WEST WAREHOUSE EXISTING ROOF FRAMING. CONSTRUCTION OF WEST WAREHOUSE UPPER EXTERIOR WALL ENCLOSURE. LIMITED DEMOLITION OF WEST WAREHOUSE INTERIOR ROOM W03A.
 - PHASE 3 - CONSTRUCTION OF NEW MEZZANINE FLOOR AND DRUG STORAGE ROOM W03A. CONSTRUCTION OF NEW OFFICE/TOILET W08-W09. NEW EXTERIOR WALL INSULATION AND FINISHES.



W10 WORK STATIONS ENLARGED PLAN
 D2 1/4" = 1'-0"



SECN - W10A-W10C WORK COUNTER
 F4 3/4" = 1'-0"

BID ITEMS & DEDUCT ALTERNATES:

- REFER TO SECTION 01 00 00 FOR STATEMENT OF BID ITEMS
- BID ITEM #1. GENERAL CONSTRUCTION. BASE BID: Renovate Warehouse for Pandemic Preparedness. Includes all scope communicated in the drawings and specifications.
 - Work includes general construction, alterations, walk, grading, drainage, necessary removal of existing structures and construction of certain other items.
 - BID ITEM #2. Renovate Warehouse for Pandemic Preparedness. Includes all scope described in Bid Item #1 - excluding Bid Deduct #1 described below.
 - Work associated with new Material Lift (W01).
 - Work associated with construction and finishes for new Rooms W08 and W09 (Demolition of existing Rooms W07, W08 and W09, including plumbing, fixtures and finishes in Room W08 will be retained in Base Bid).
 - Work associated with installation of new ceilings and finishes in Rooms W04, W05A and W06.
 - Demolition and renovation of work counters at Rooms W10A and W10C.

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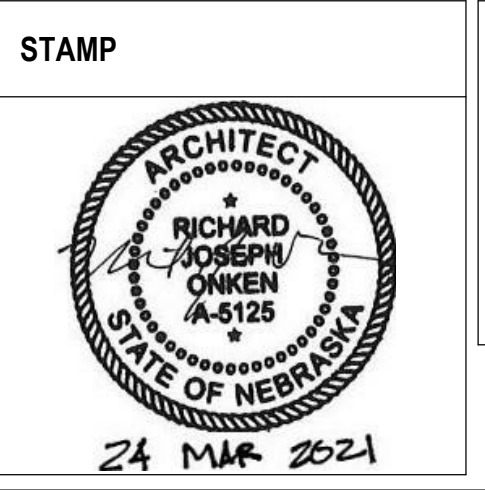
BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
LARGE SCALE PLANS & DETAILS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
 800 HOSPITAL DR., COLUMBIA MO 65201**

Project Number
58944-20-158

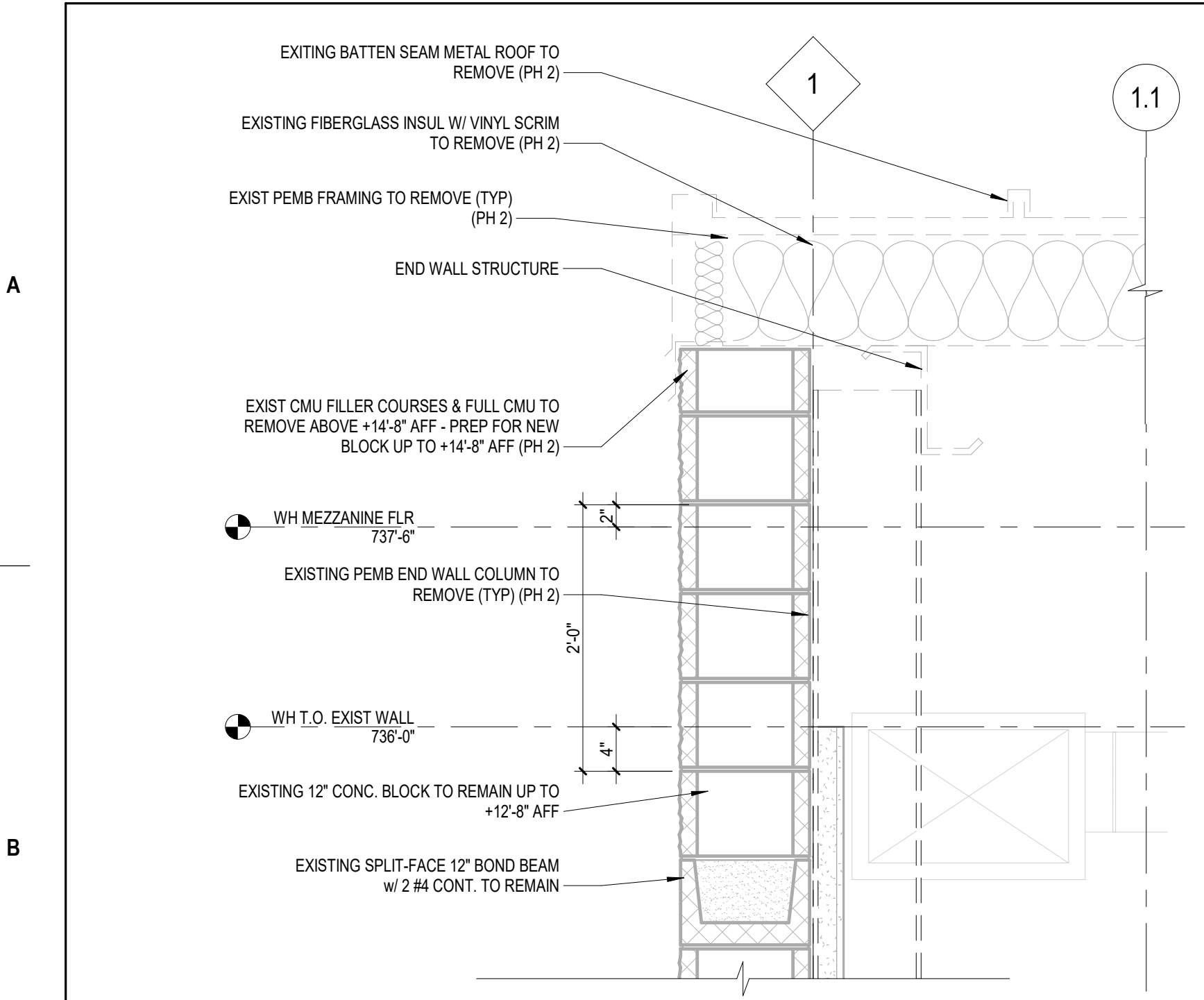
Building Number
14

Drawing Number
AE401
 Dwg. # 33 of 94

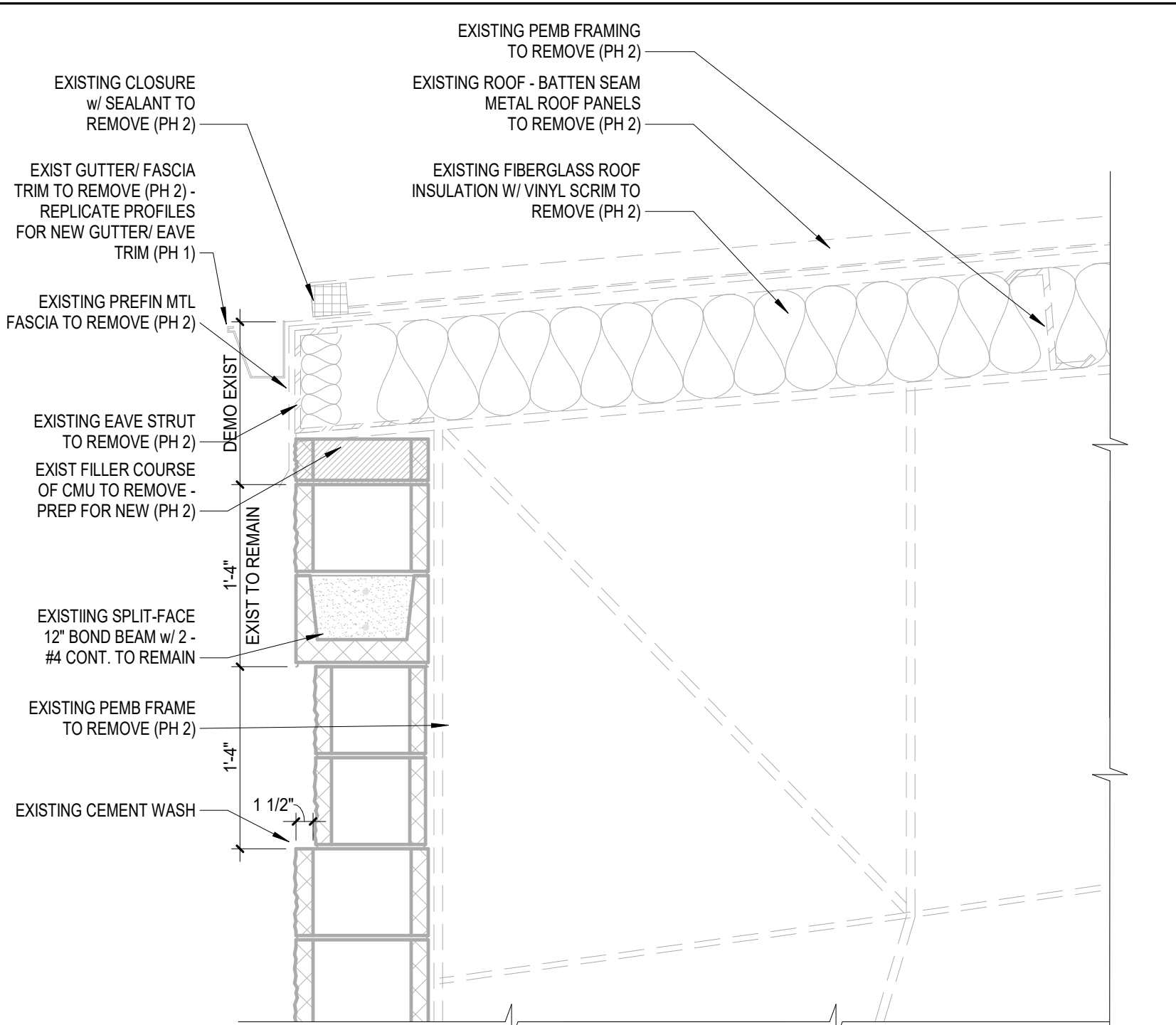
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 03/24/2021

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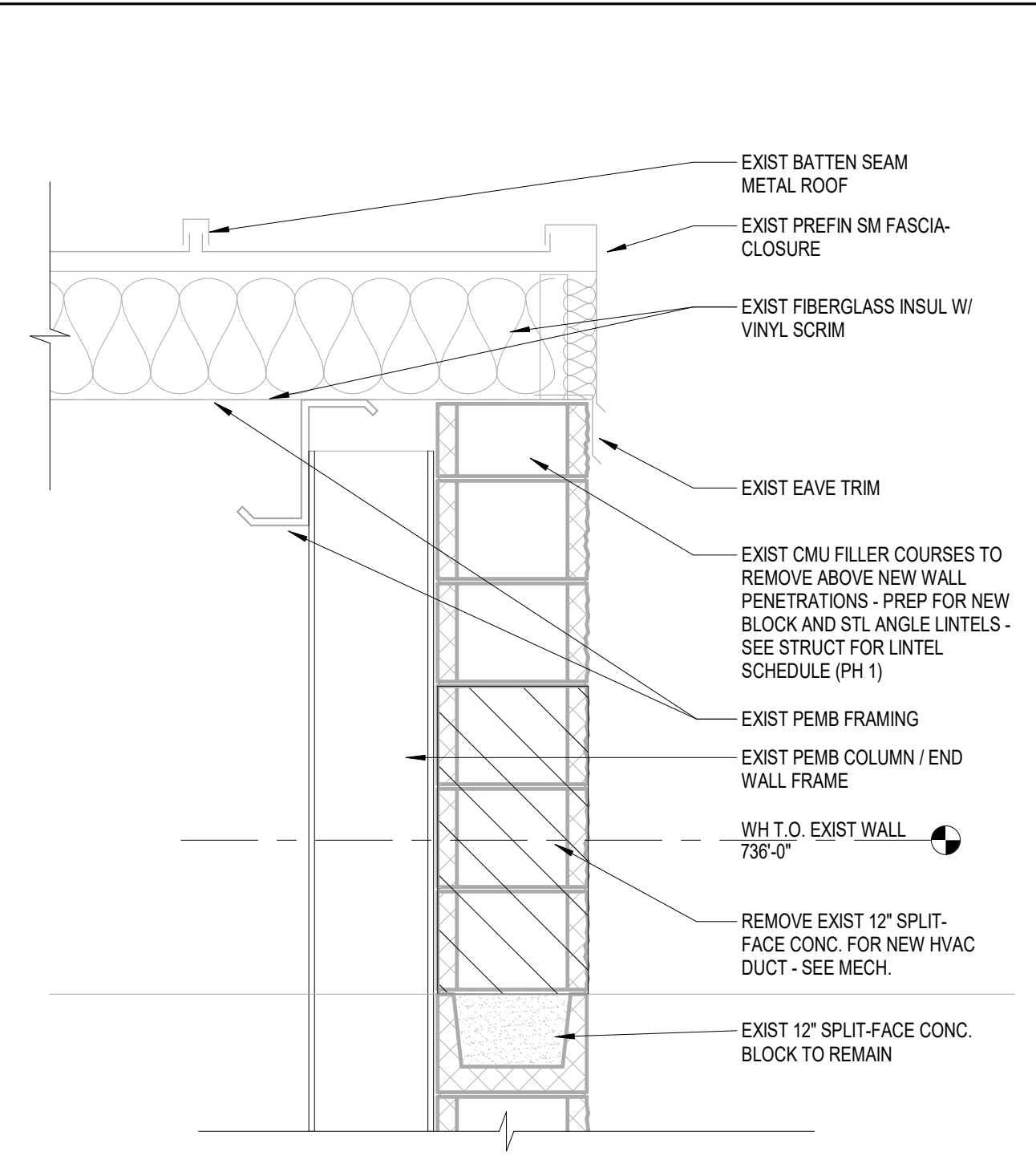
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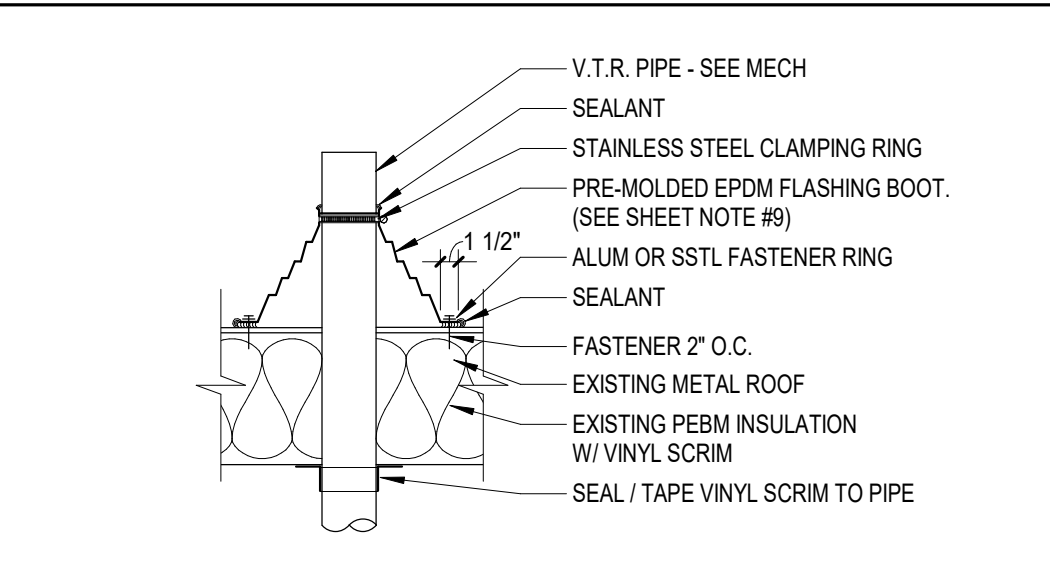
B1 EXIST ROOF EAVE DETAIL - W. WALL-DEMO
1" = 1'-0"



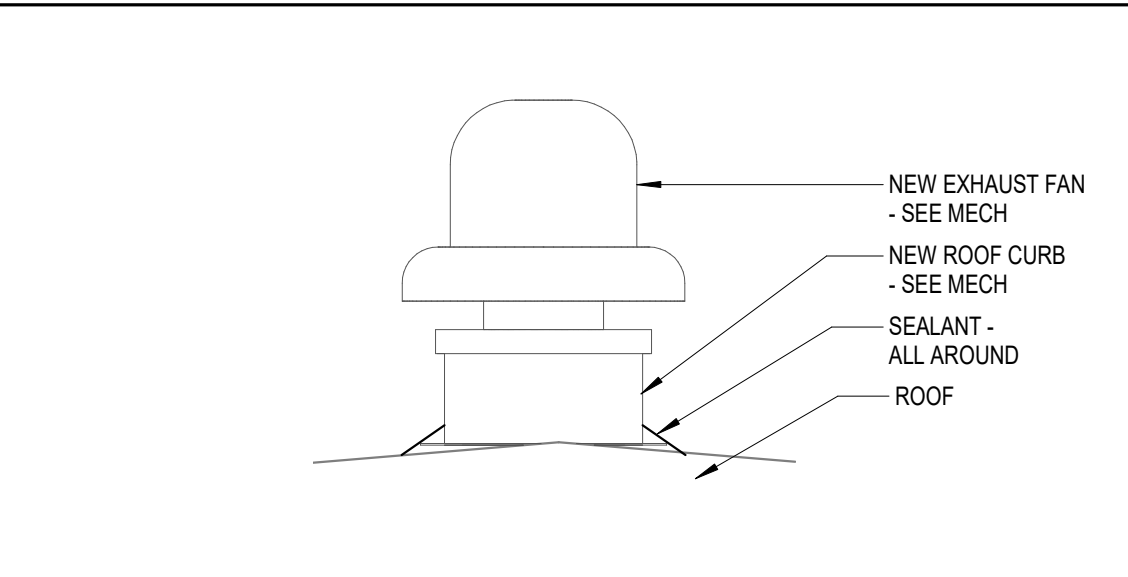
B3 EXIST ROOF FASCIA / GUTTER DETAIL
1" = 1'-0"



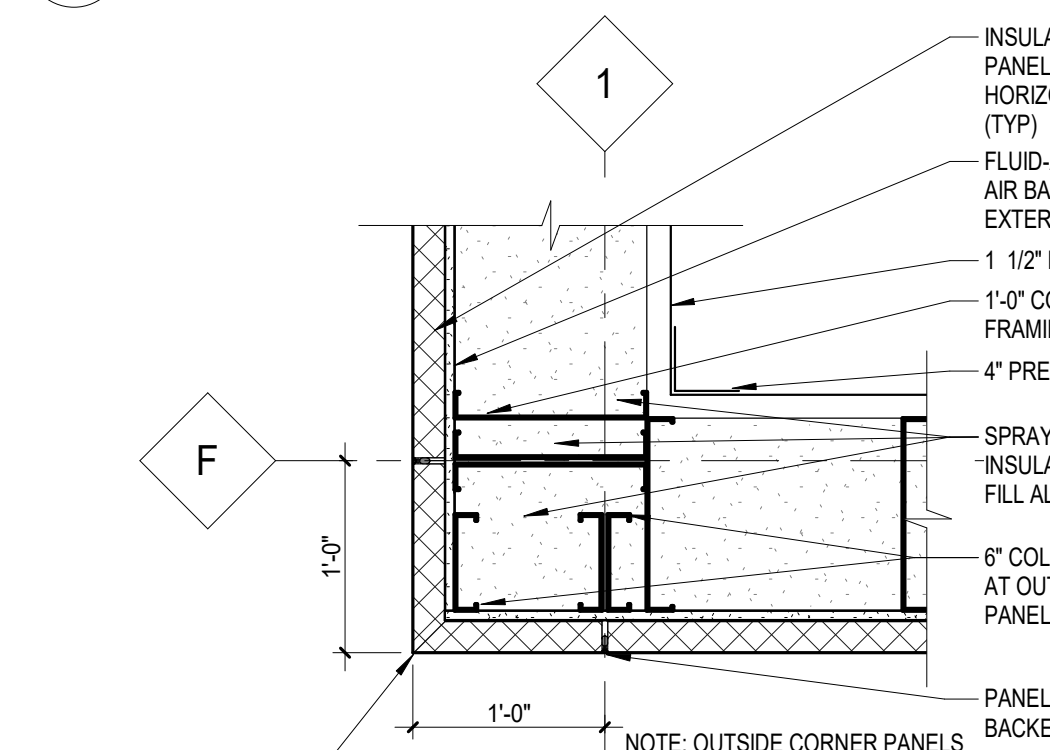
B5 EXIST ROOF EAVE DETAIL
1" = 1'-0"



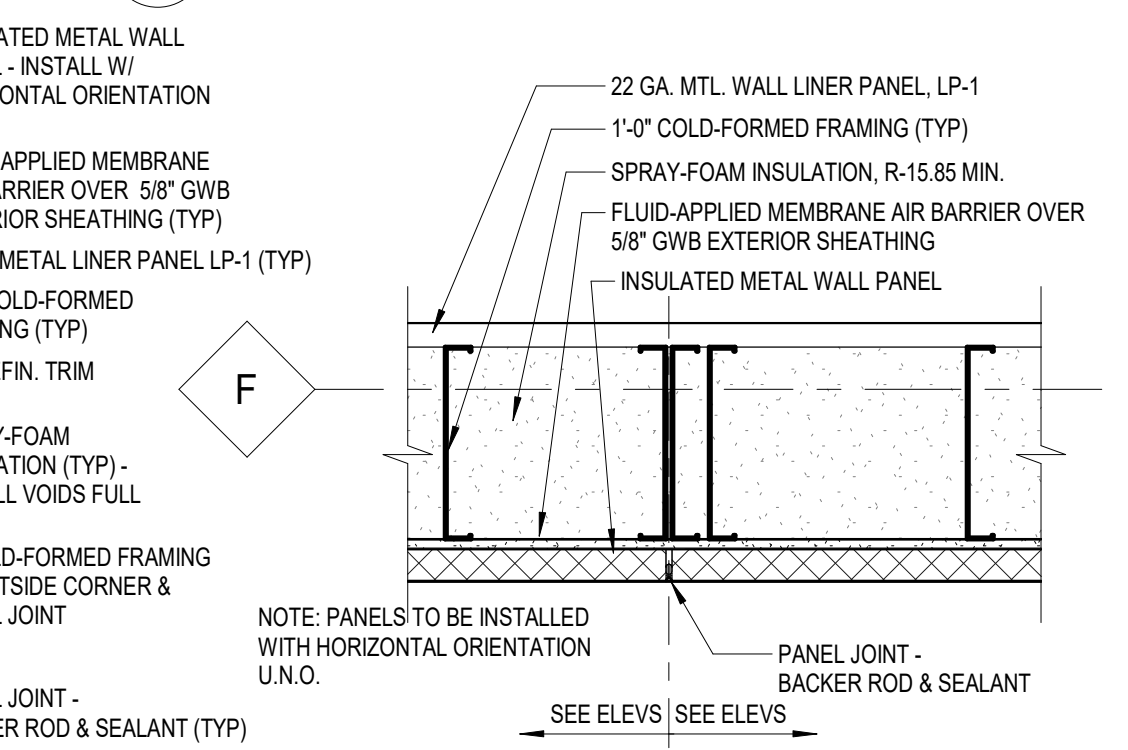
A7 THRU-ROOF PLBG, VENT
3/4" = 1'-0"



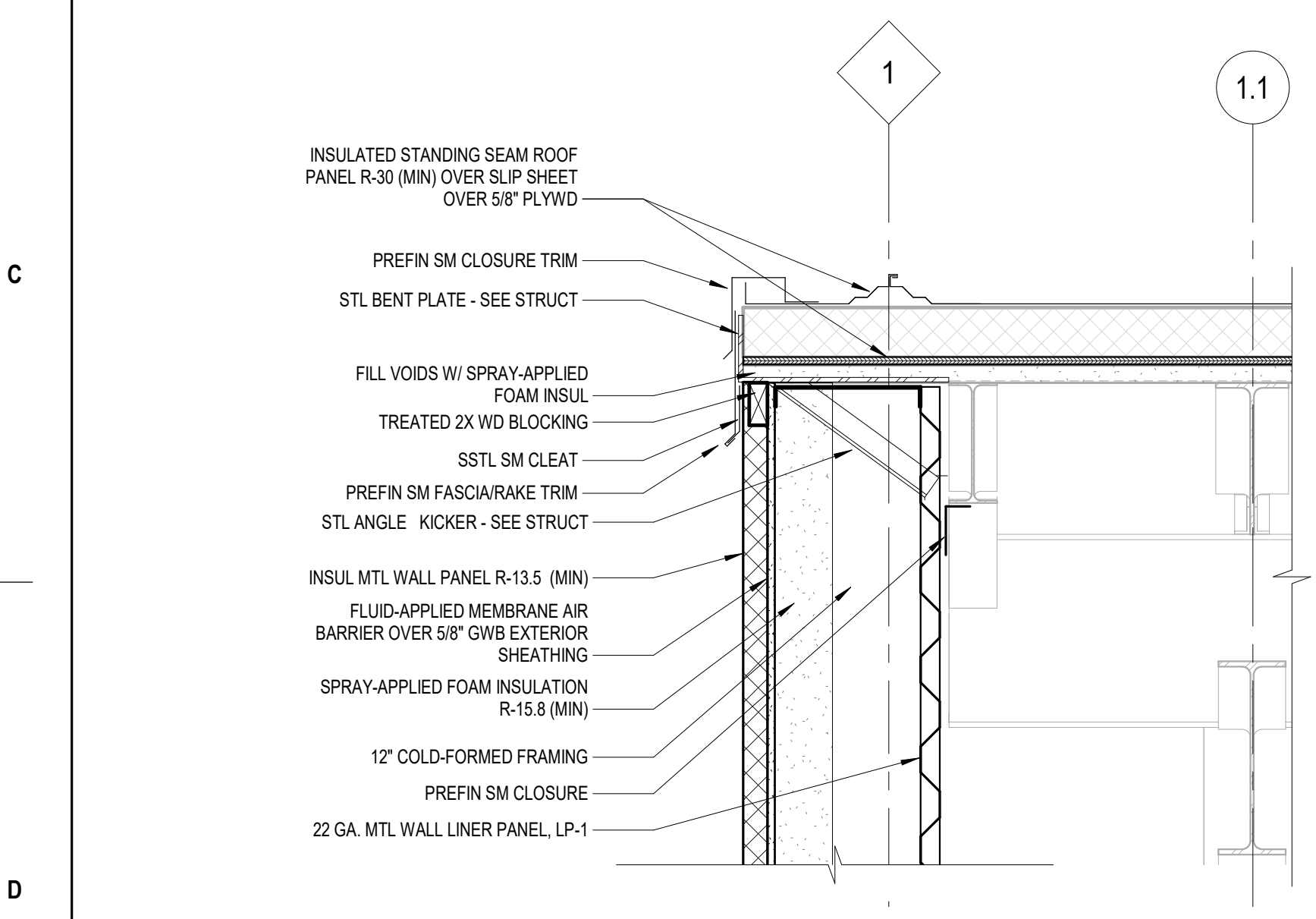
A8 EXHAUST FAN
3/4" = 1'-0"



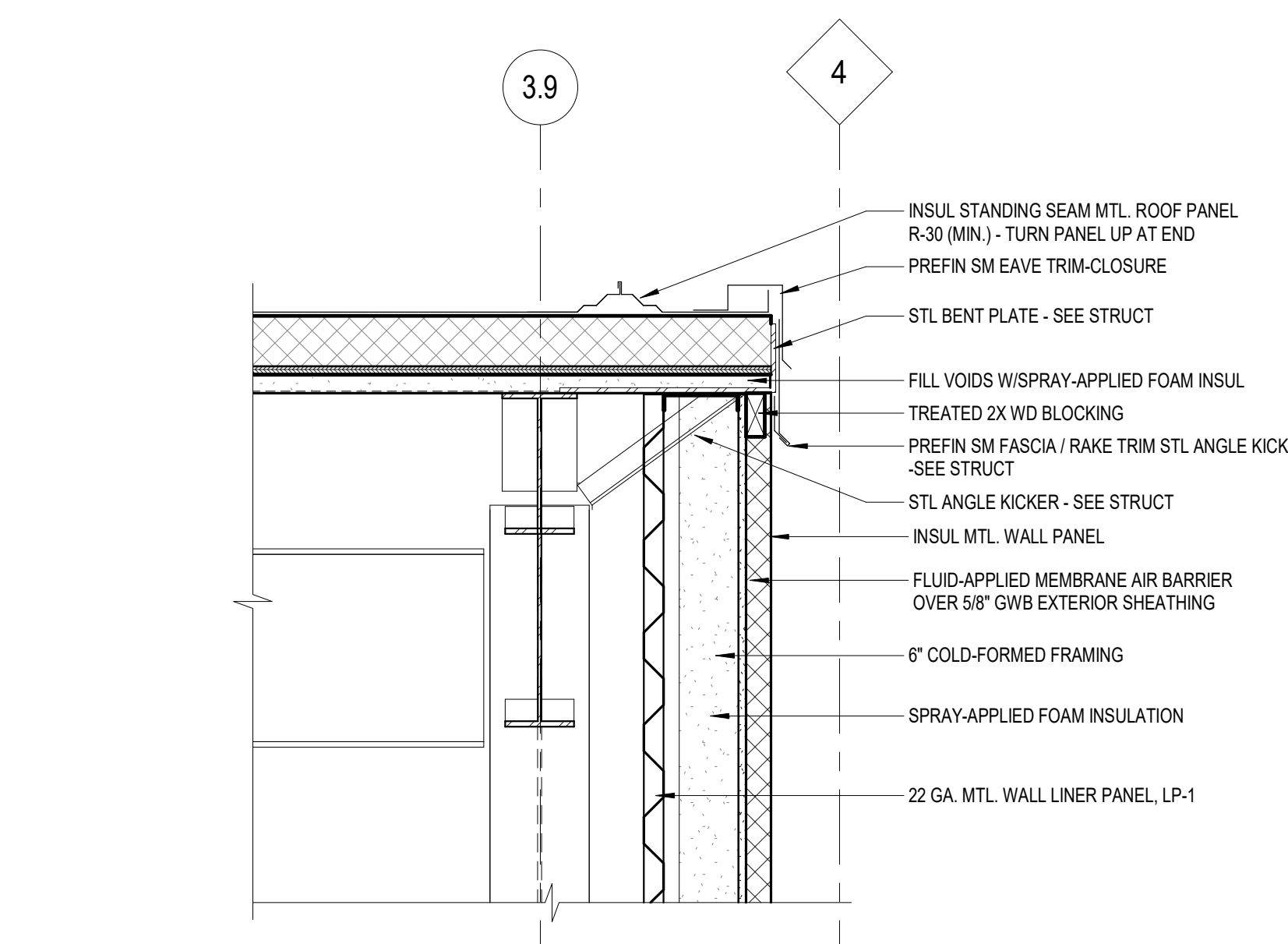
B7 EXTERIOR WALL DETAIL
1" = 1'-0"



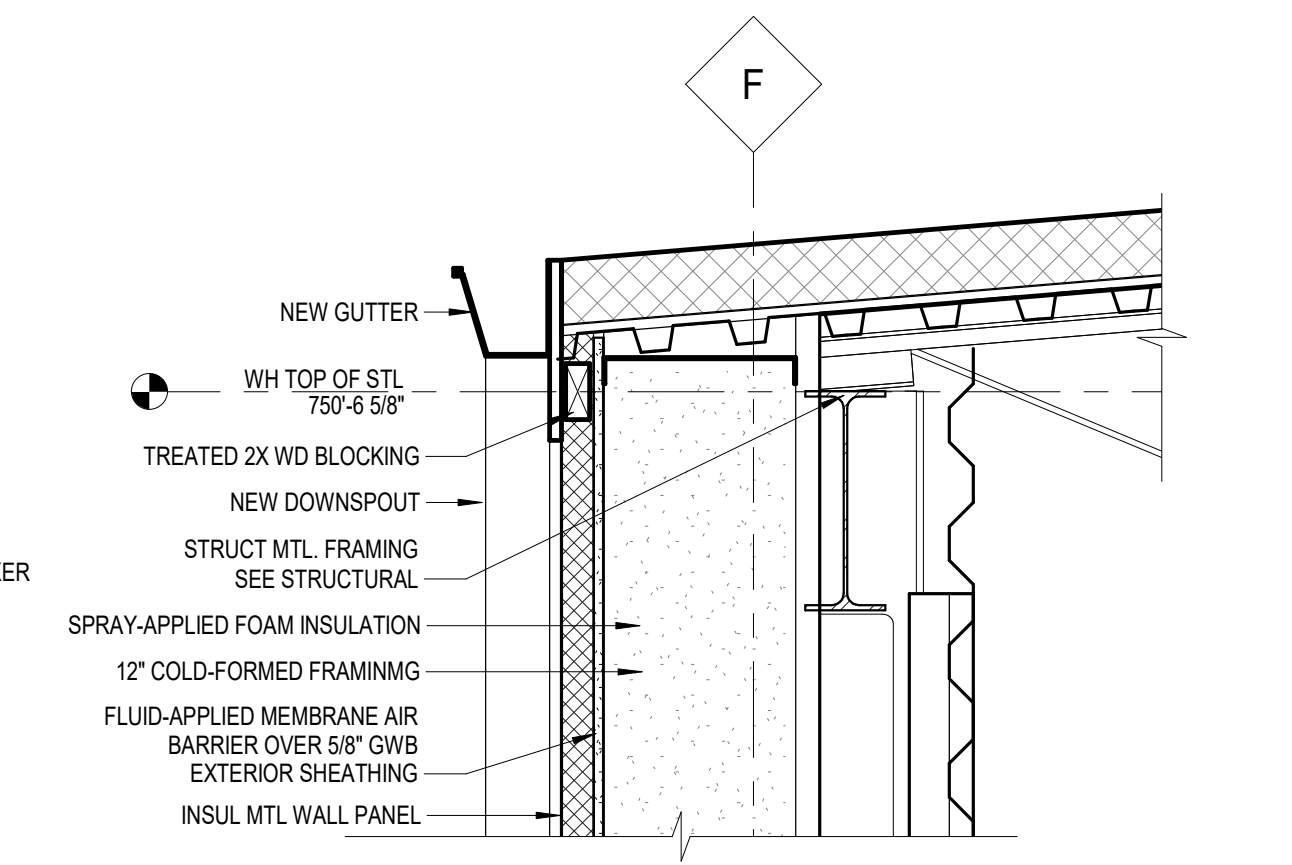
B8 EXTERIOR WALL DETAIL
1" = 1'-0"



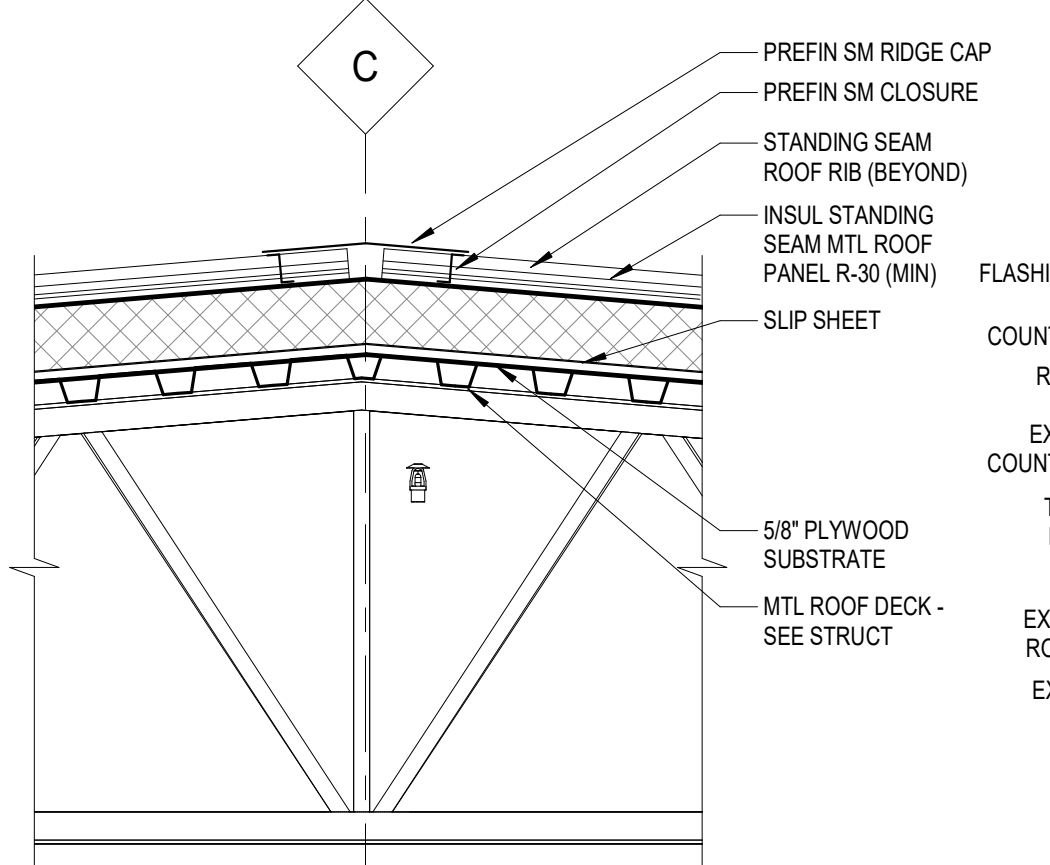
D1 NEW ROOF EAVE DETAIL - WEST WALL
1" = 1'-0"



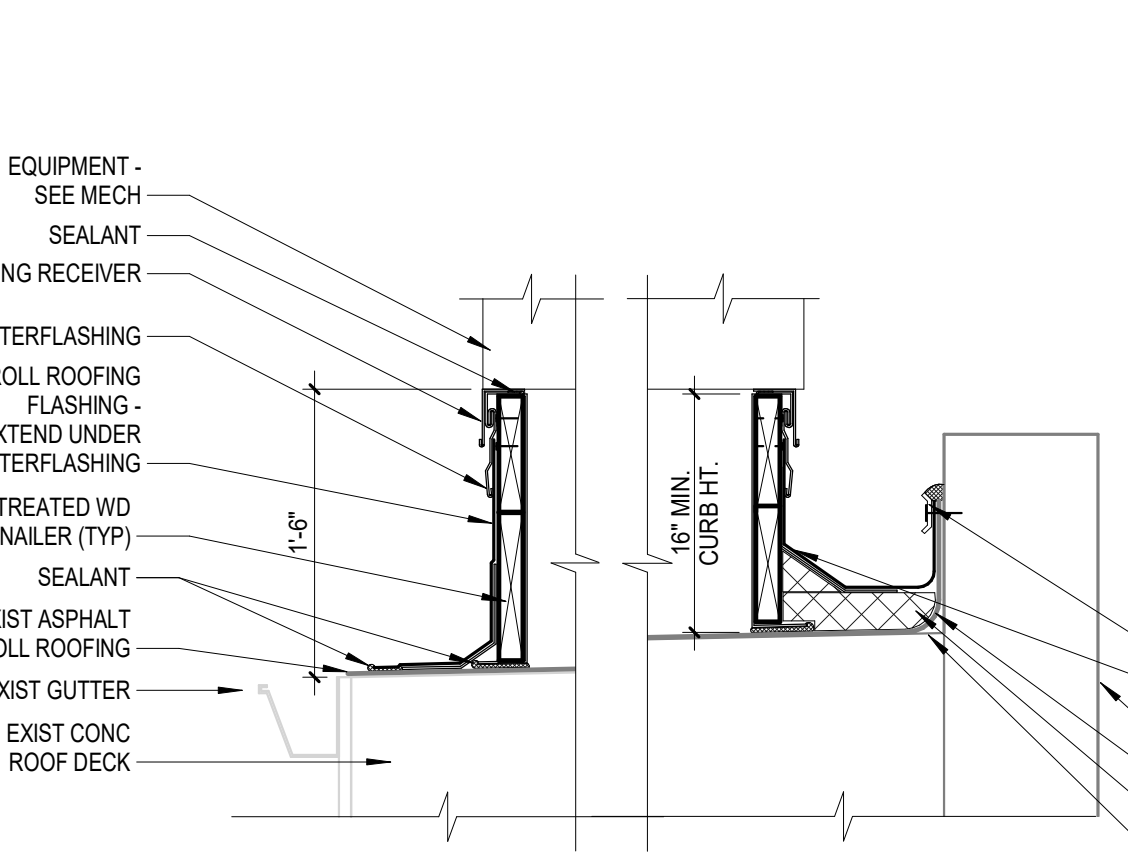
D3 ROOF-TO-WALL DETAIL - EAVE
1" = 1'-0"



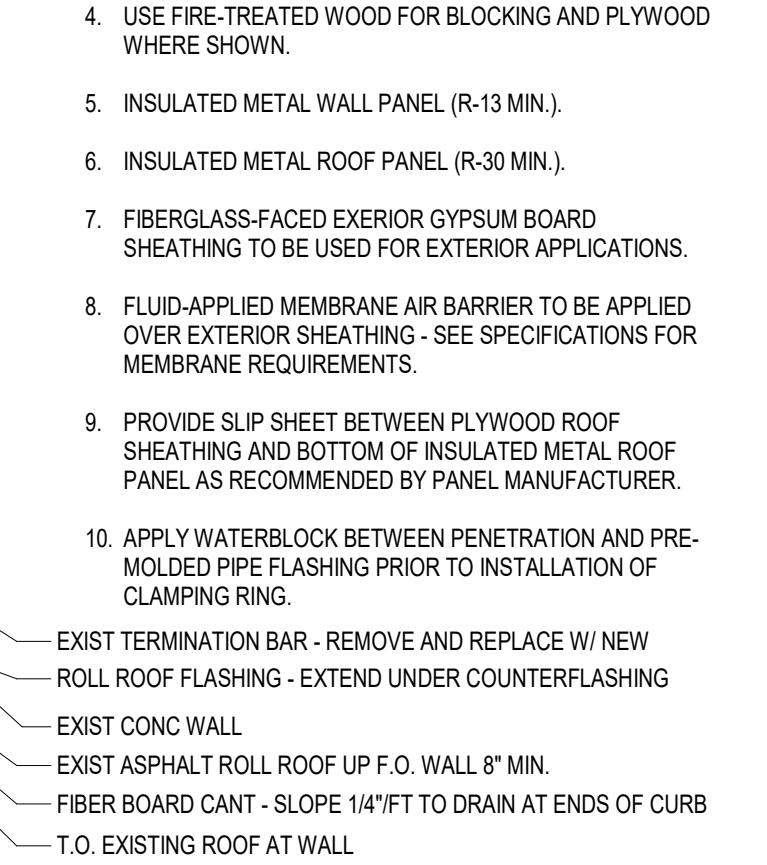
D6 NEW ROOF FASCIA / GUTTER
1" = 1'-0"



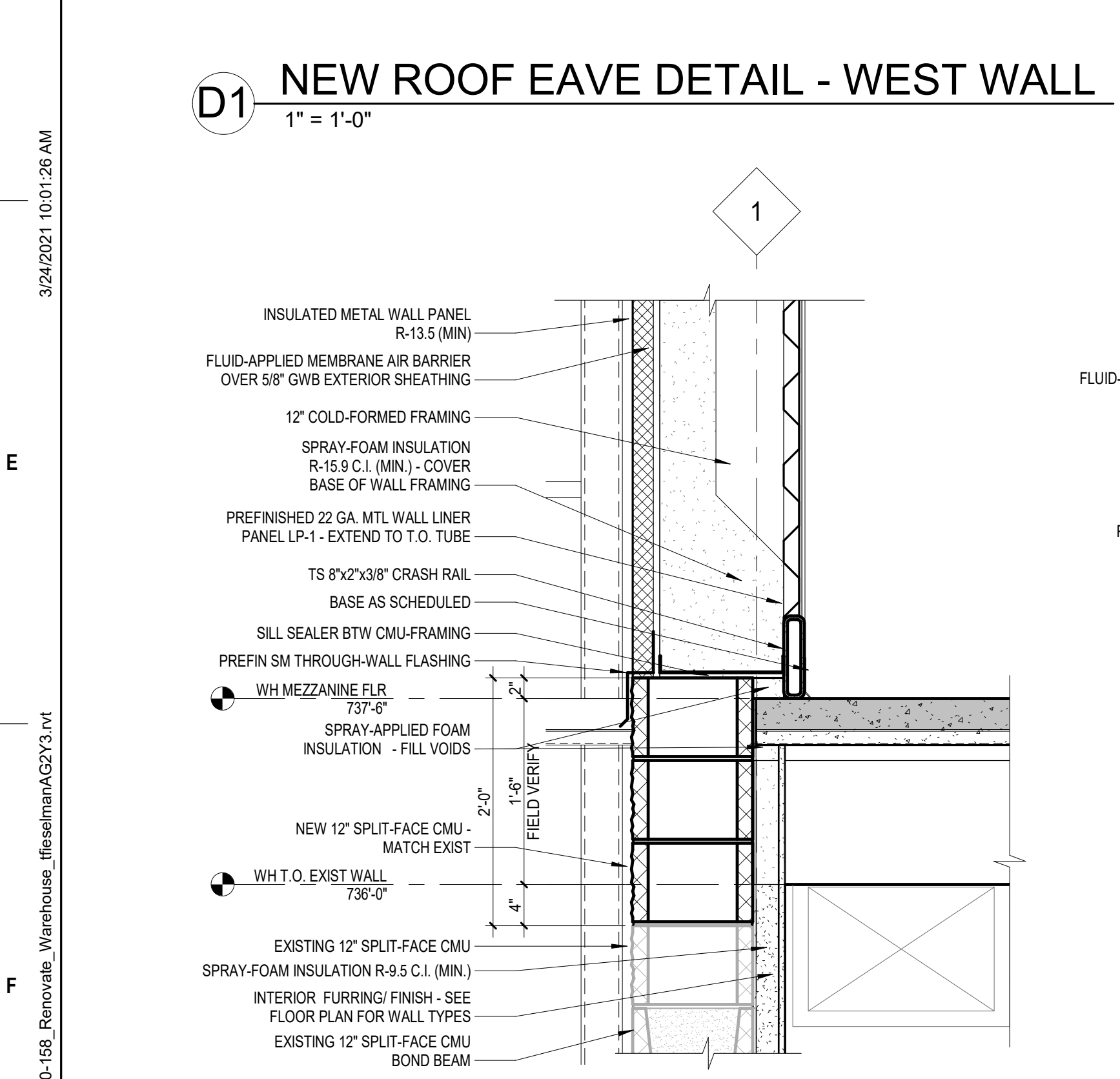
D7 NEW ROOF RIDGE
1" = 1'-0"



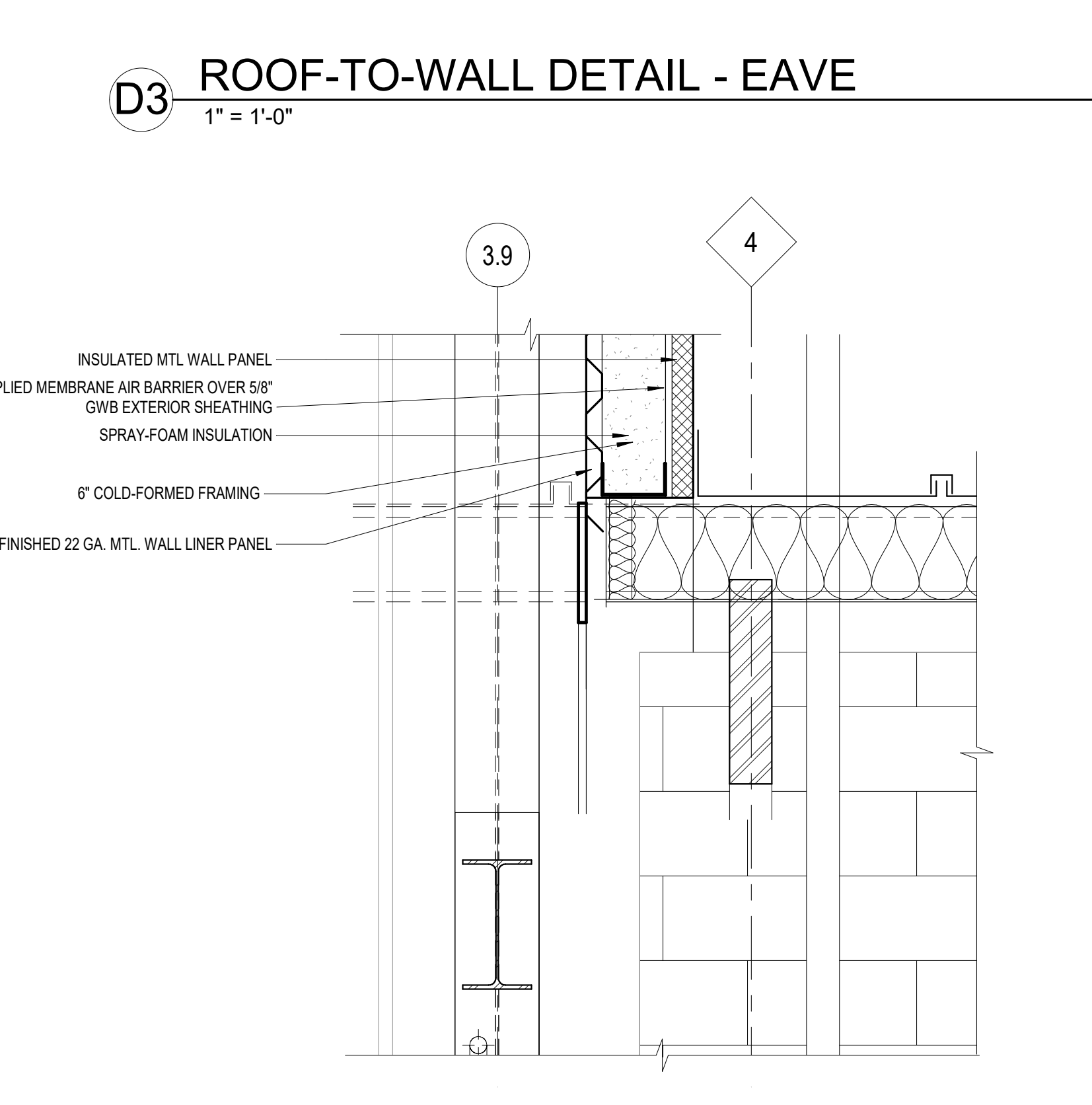
D8 RTU ROOF CURB
1" = 1'-0"



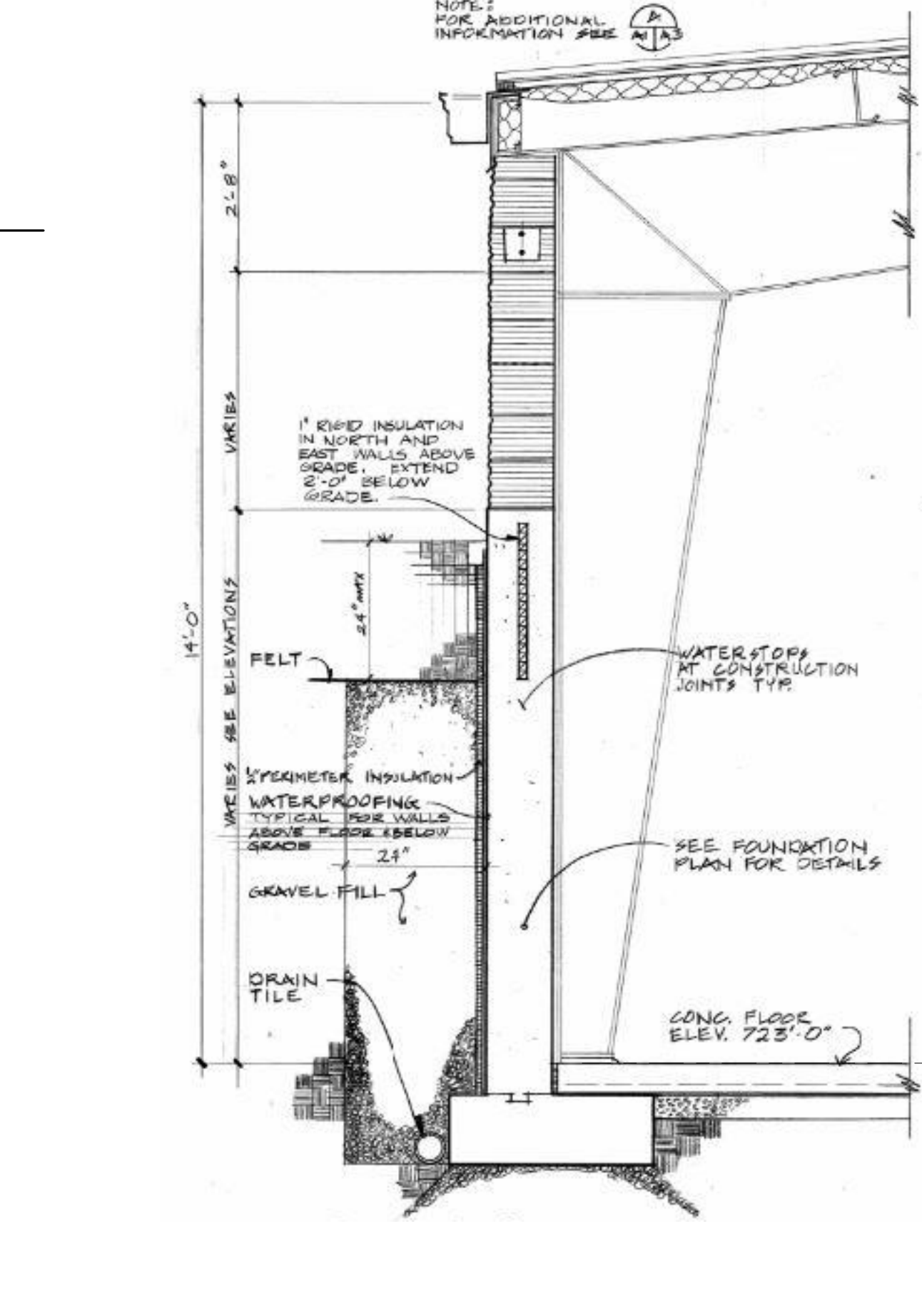
D9 ROOF CURB UP SLOPE
1" = 1'-0"



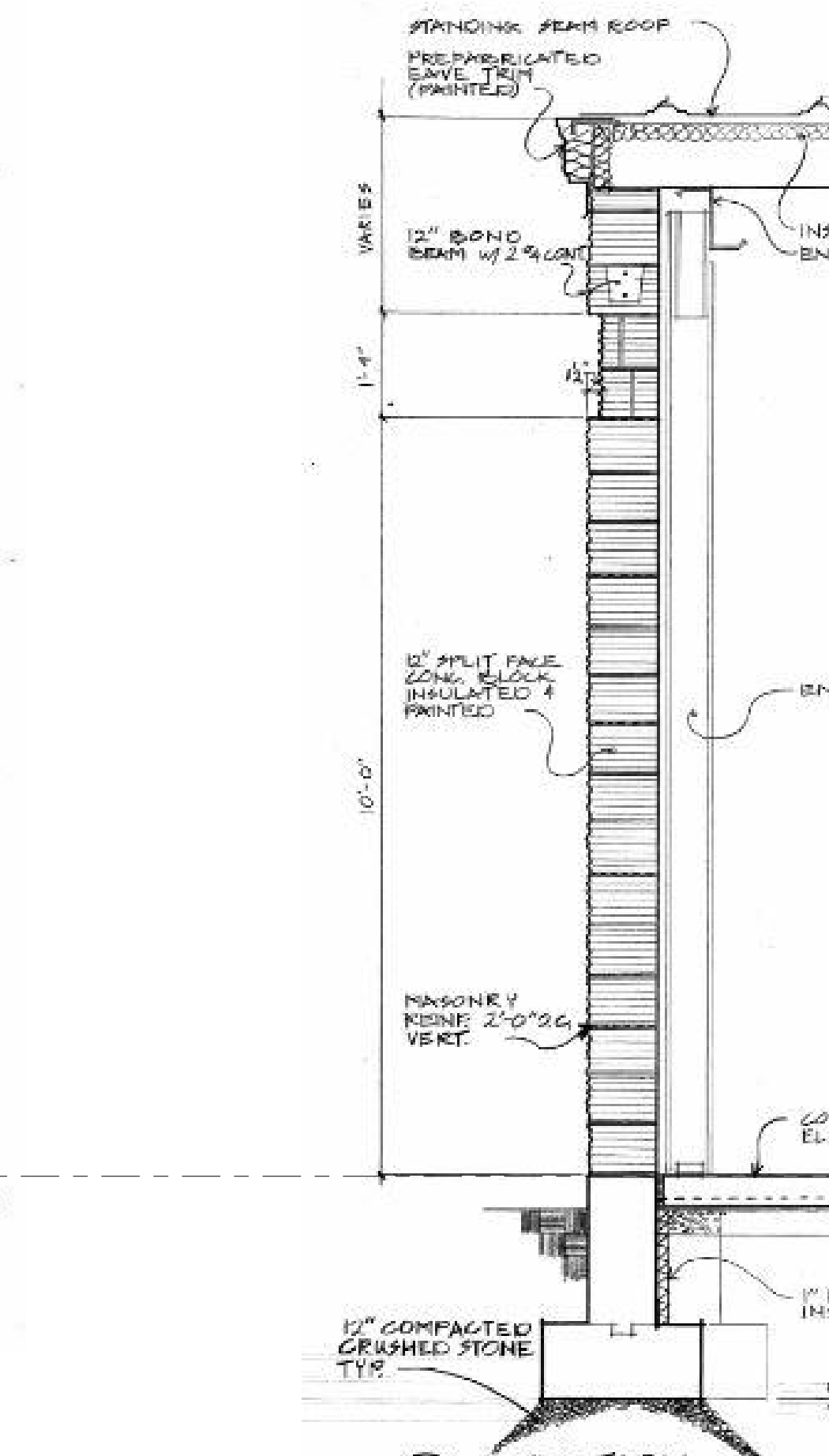
F1 TYPICAL WALL-MEZZ. FLR. DETAIL
1" = 1'-0"



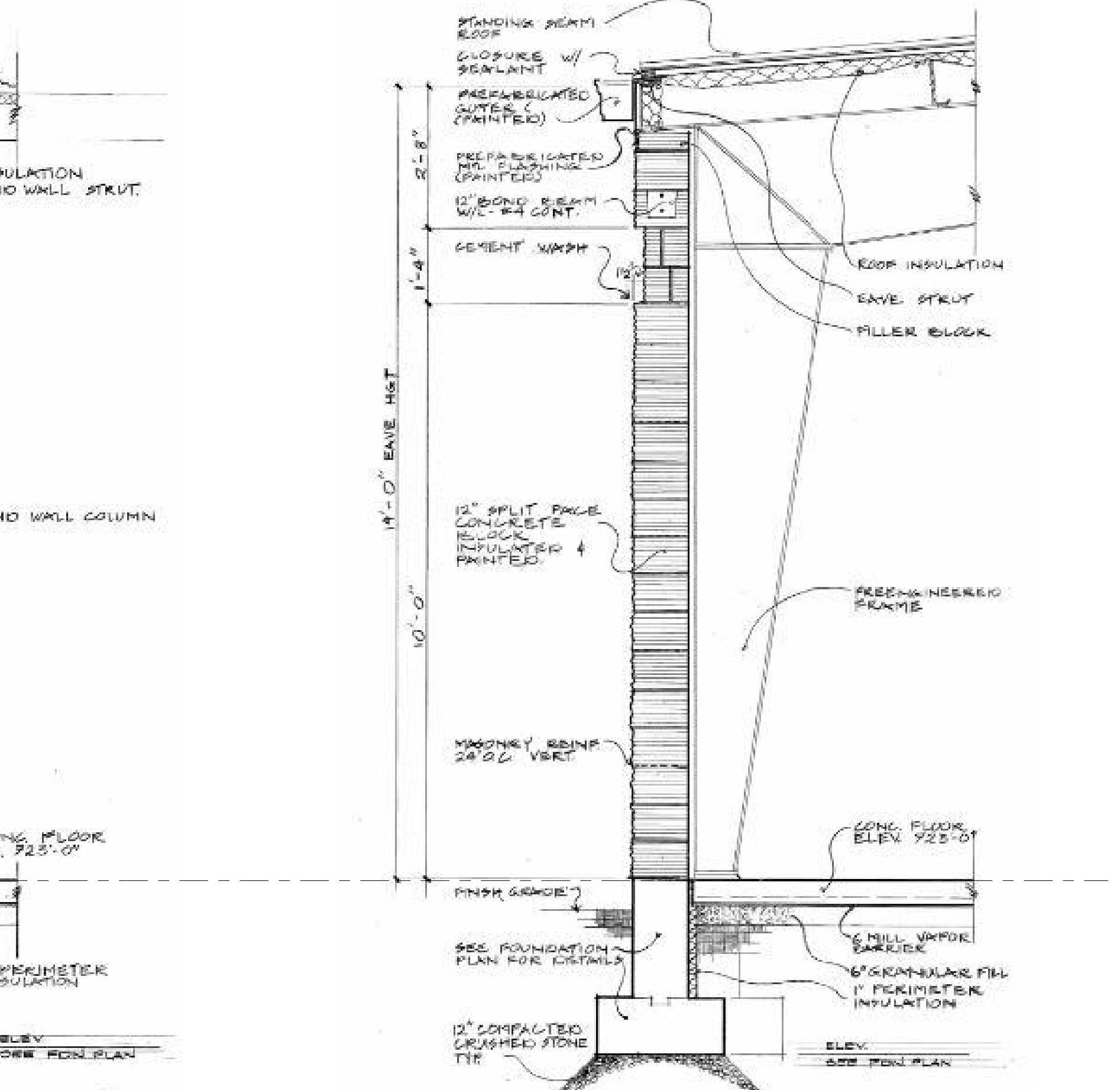
F3 EXISTING ROOF-TO-NEW WALL DETAIL
1" = 1'-0"



F5 EXISTING NORTH WALL
NOT TO SCALE



F7 EXISTING WEST WALL
NOT TO SCALE



F9 EXISTING SOUTH WALL
NOT TO SCALE

EXTERIOR DETAILS GENERAL NOTES:

- REFER TO PHASING, DEMOLITION AND RENOVATION PLANS FOR REQUIREMENTS RELATED TO INSTALLATION OF NEW EXTERIOR WALLS AND COLOR NOT SHOWN IN DETAIL DRAWINGS.
- REFER TO COLOR SCHEDULE ON SHEET AE601 FOR EXTERIOR FINISH COLORS.
- SEE ARCHITECTURAL SITE PLAN SHEET AS101 FOR INFORMATION RELATED TO CONTRACTOR'S USE OF SITE, CONSTRUCTION LIMITS, FENCINGS AND BARRIERS, SITE IMPROVEMENTS AND ACCESS.
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- SEE "TEMPORARY BARRIERS AND ENCLOSURES" NOTES ON SHEET G402 AND SECTION 01 56 00 "TEMPORARY BARRIERS AND ENCLOSURES" FOR INFORMATION RELATED TO TEMPORARY CONSTRUCTION BARRIERS, ENCLOSURES AND PROTECTION OF EXISTING CONSTRUCTION DURING DEMOLITION AND RENOVATION.

EXTERIOR DTLS. SHEET NOTES:

- PREFINISHED BRAKE METAL TRIM BY ROOFING CONTRACTOR.
- NEW SHEET METAL GUTTER - MATCH EXISTING PROFILE.
- NEW PREFINISHED METAL FASCIA AT ROOF EDGE.
- USE FIRE-TREATED WOOD FOR BLOCKING AND PLYWOOD WHERE SHOWN.
- INSULATED METAL WALL PANEL (R-13 MIN).
- INSULATED METAL ROOF PANEL (R-30 MIN.).
- FIBERGLASS-FACED EXTERIOR GYPSUM BOARD SHEATHING TO BE USED FOR EXTERIOR APPLICATIONS.
- FLUID-APPLIED MEMBRANE AIR BARRIER TO BE APPLIED OVER EXTERIOR SHEATHING - SEE SPECIFICATIONS FOR MEMBRANE REQUIREMENTS.
- PROVIDE SLIP SHEET BETWEEN PLYWOOD ROOF SHEATHING AND BOTTOM OF INSULATED METAL ROOF PANEL AS RECOMMENDED BY PANEL MANUFACTURER.
- APPLY WATERBLOCK BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING.

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 VA FORM 08-6231

BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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incandescence life safety
 a fire protection engineering firm

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ARCHITECT
 RICHARD JOSEPH ONKEN
 A-6125
 STATE OF MISSOURI
 24 MAR 2021

Office of
 Construction
 and Facilities
 Management

VA U.S. Department
 of Veterans Affairs

Drawing Title
EXTERIOR DETAILS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
**RENOVATE WAREHOUSE FOR
 PANDEMIC PREPAREDNESS**

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
 800 HOSPITAL DR., COLUMBIA MO 65201**

Project Number
58944-20-158

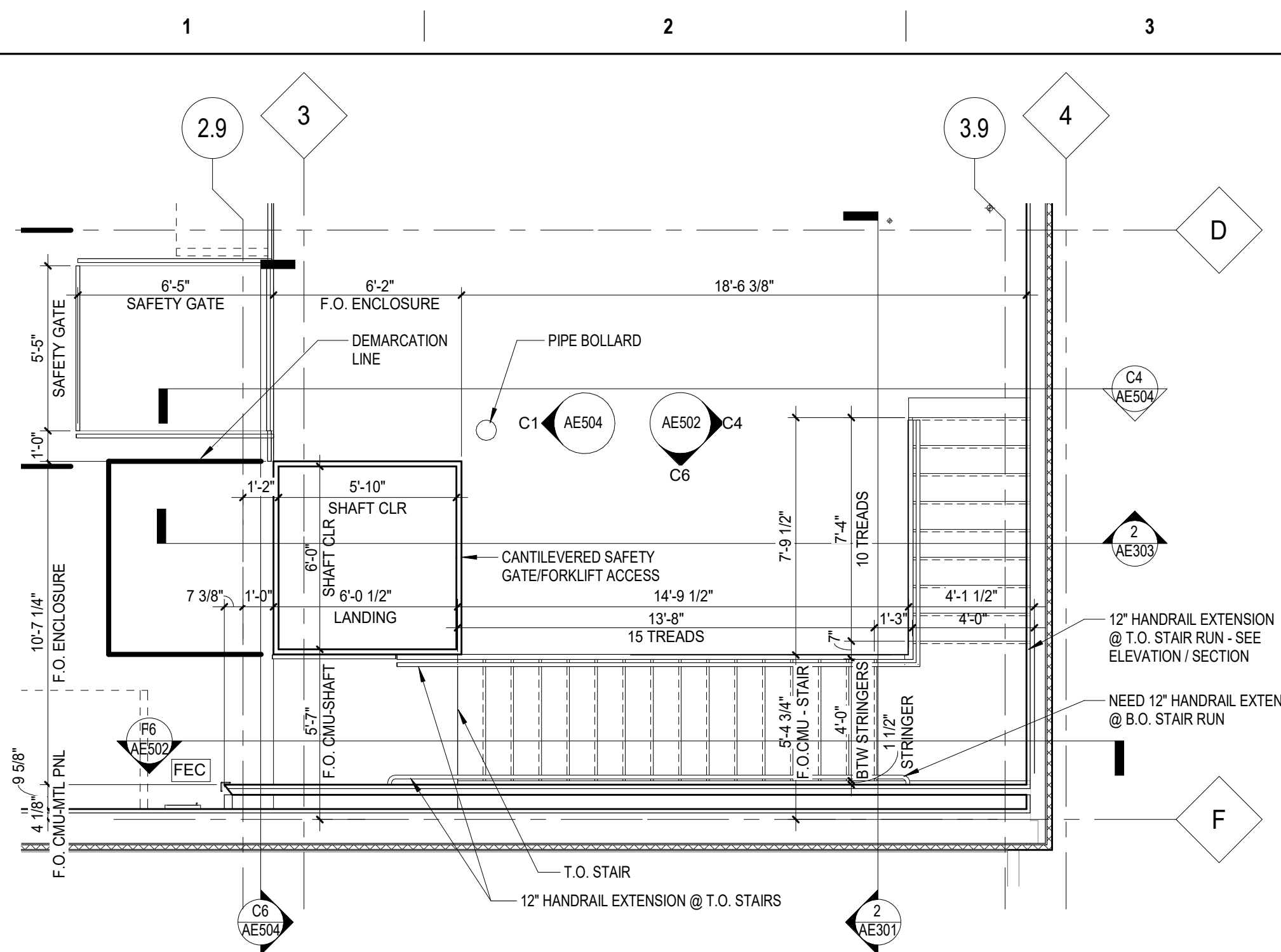
Building Number
14

Drawing Number
AE501
 Dwg. # 34 of 94

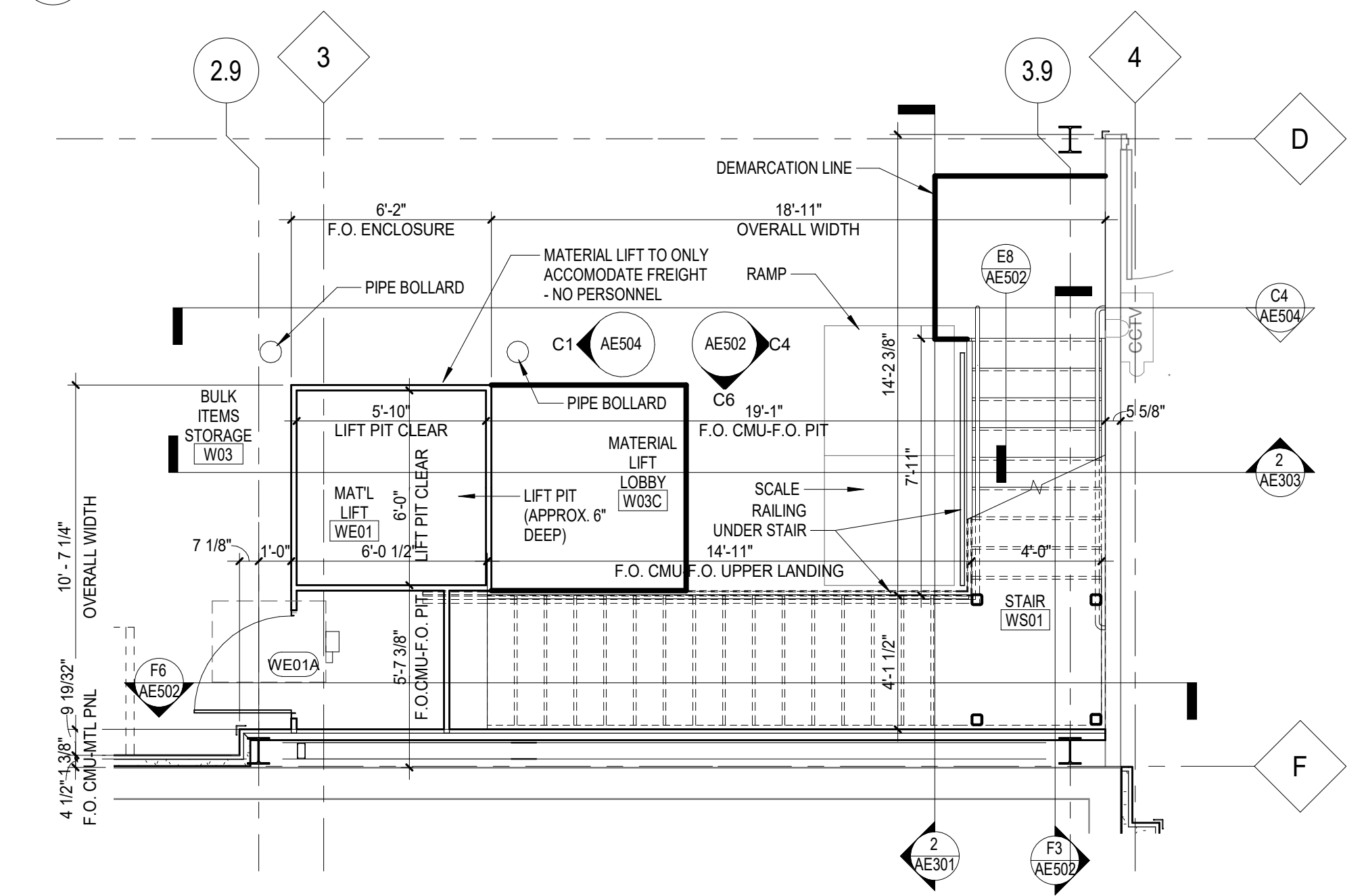
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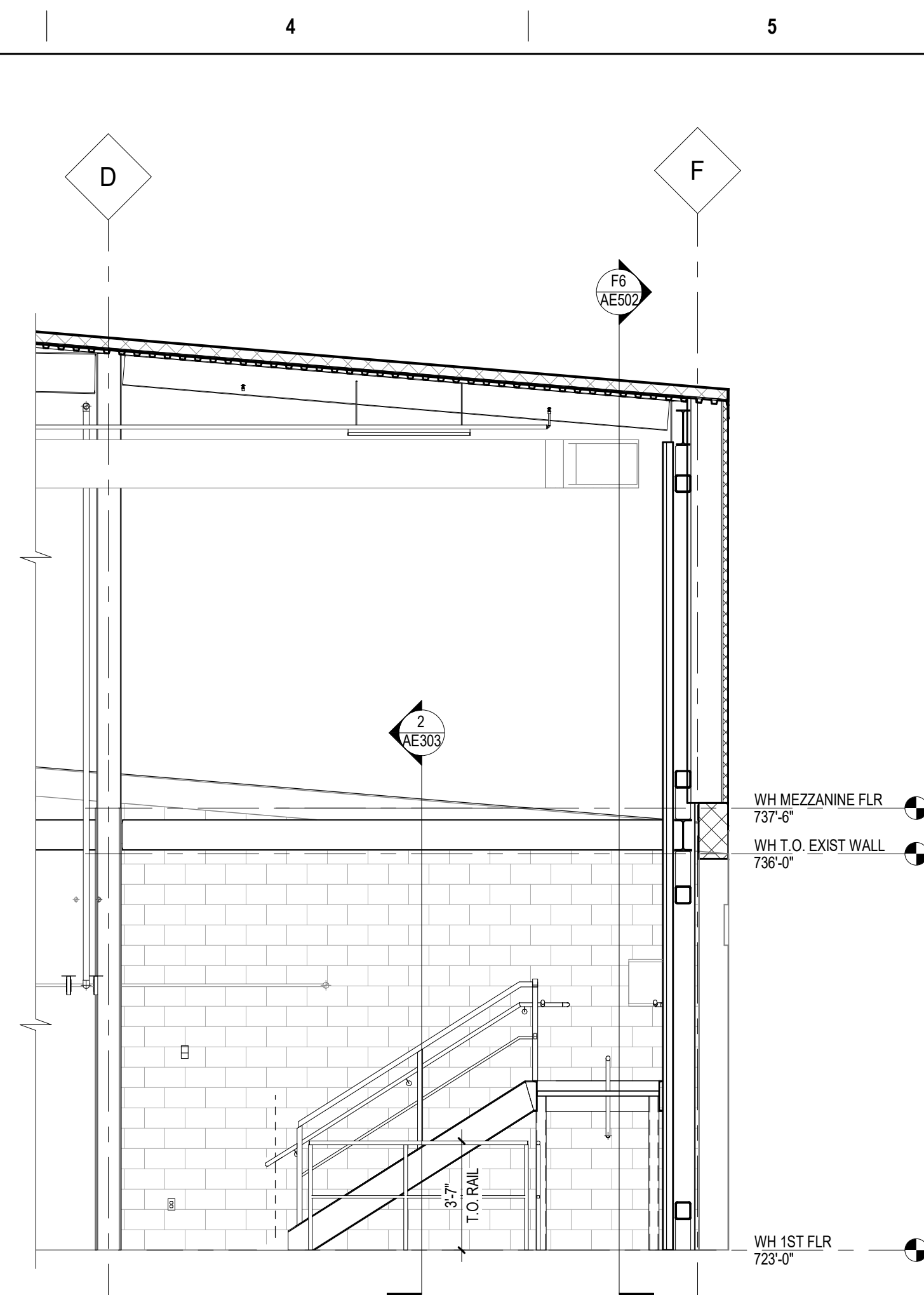
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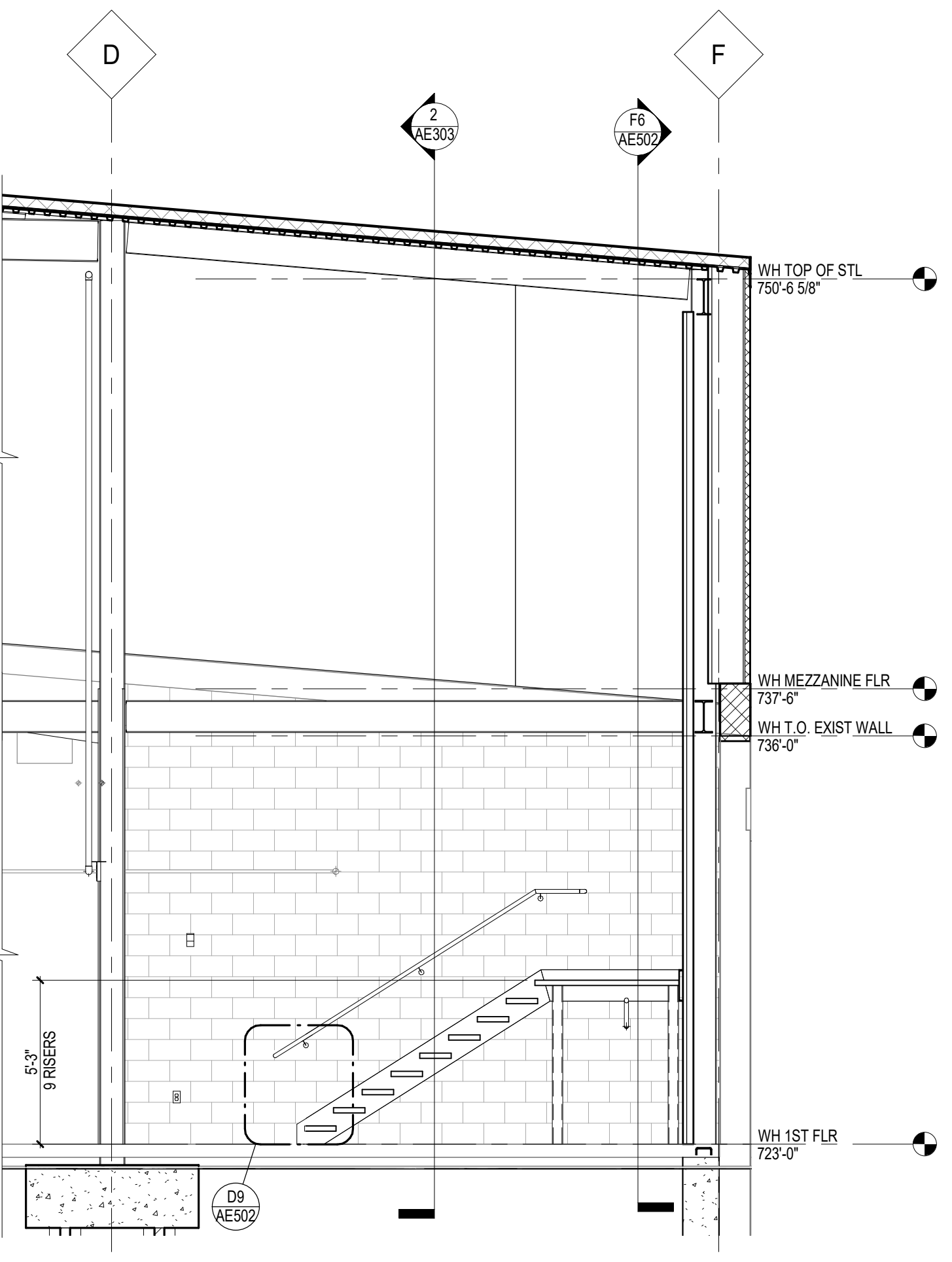
B1 STAIR WS01 & MAT'L LIFT WE01 MEZZANINE LEVEL PLAN
1/4" = 1'-0"



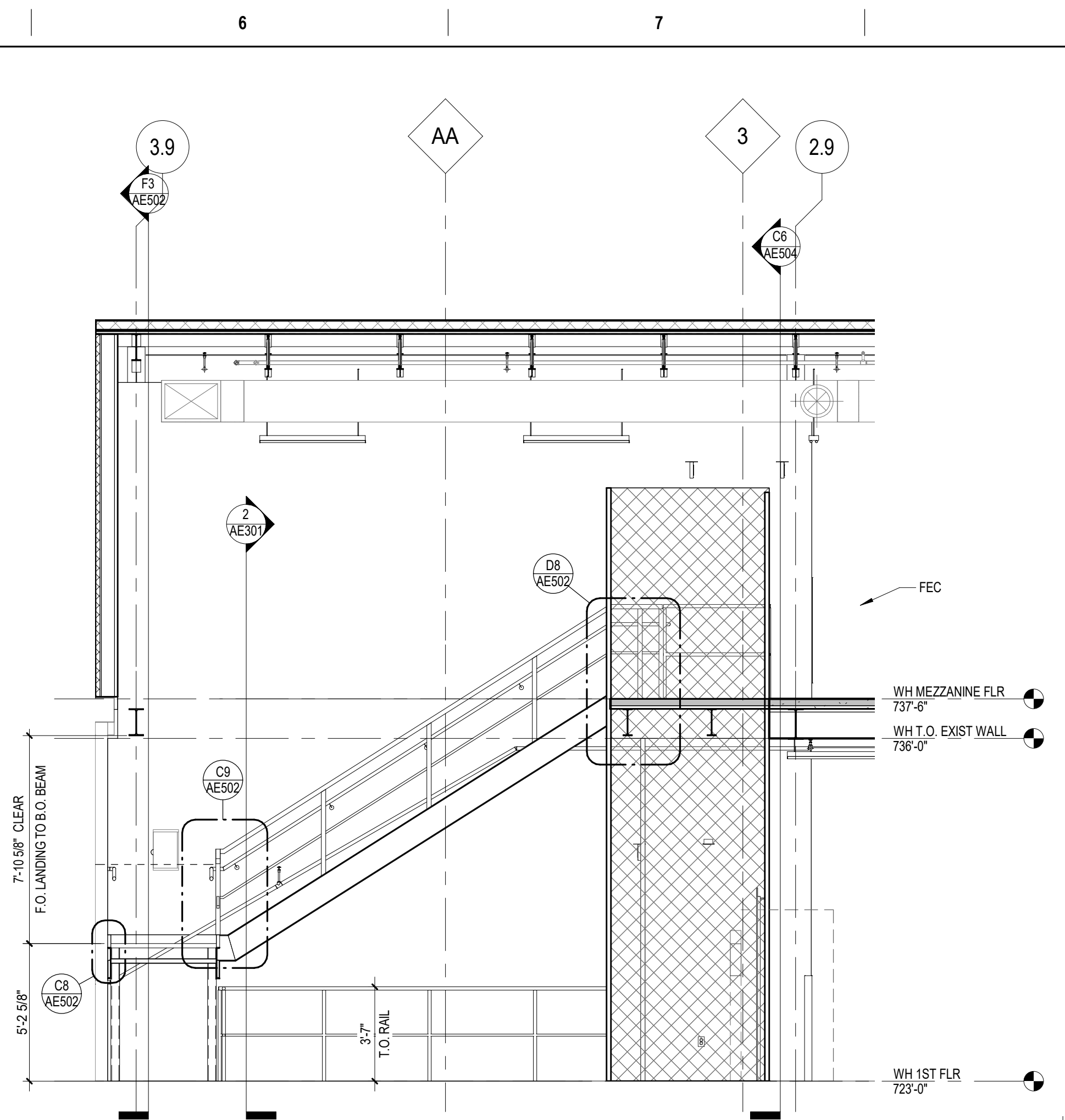
D1 STAIR WS01 AND MAT'L LIFT WE01 LOWER LEVEL PLAN
1/4" = 1'-0"



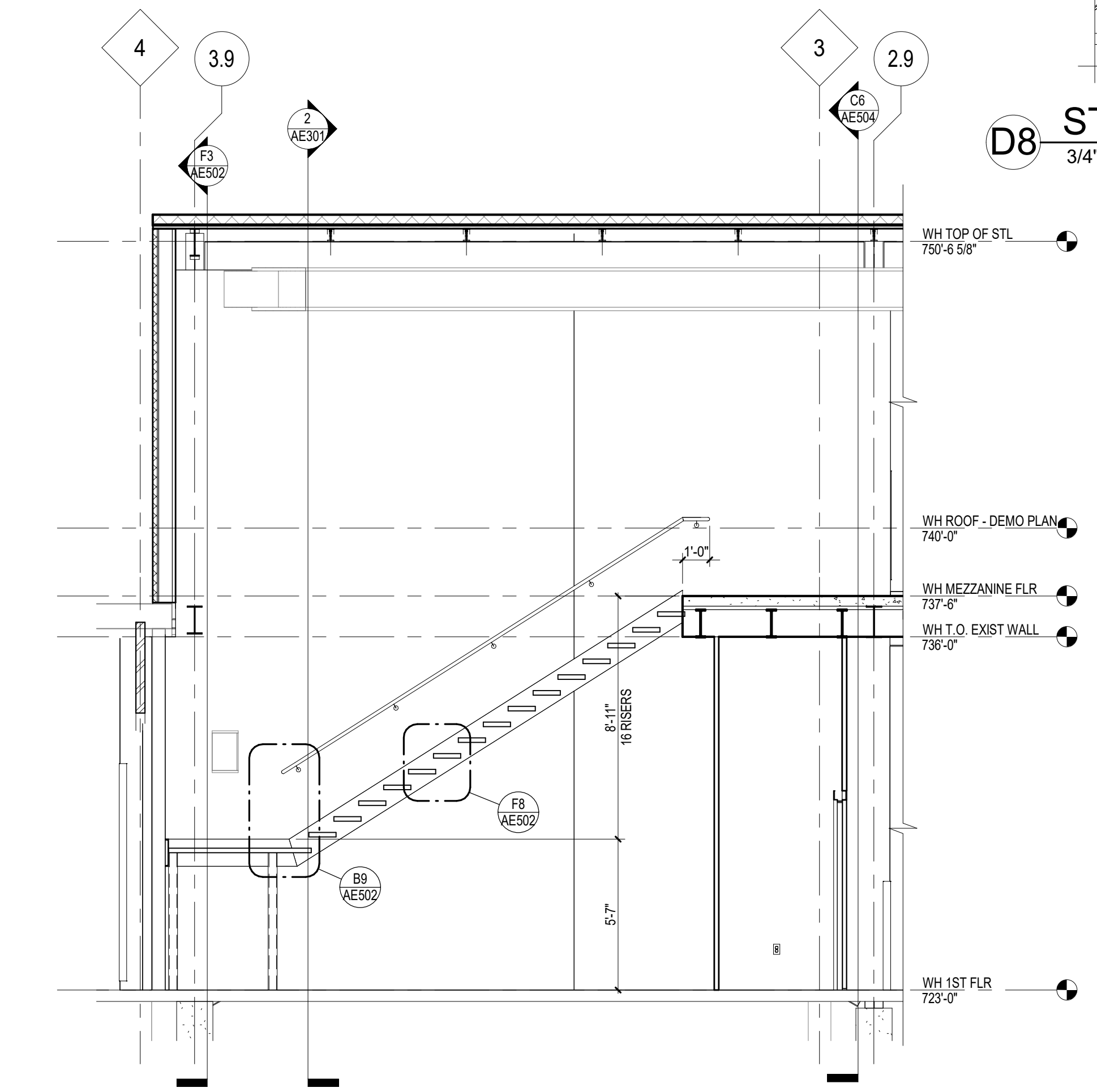
C4 WS01 EAST ELEVATION
1/4" = 1'-0"



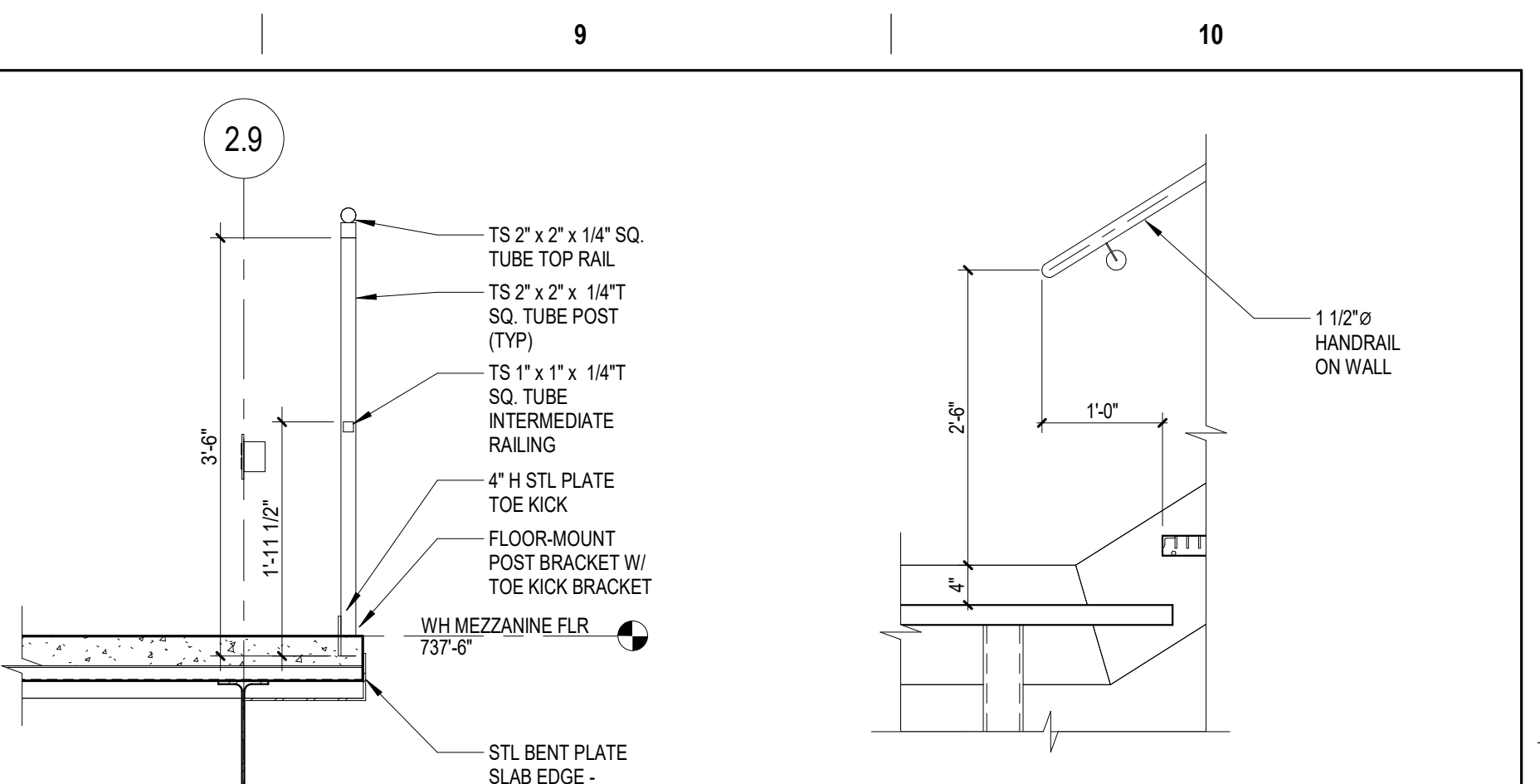
F3 SECN - STAIR WS01 LOWER RUN-LANDING
1/4" = 1'-0"



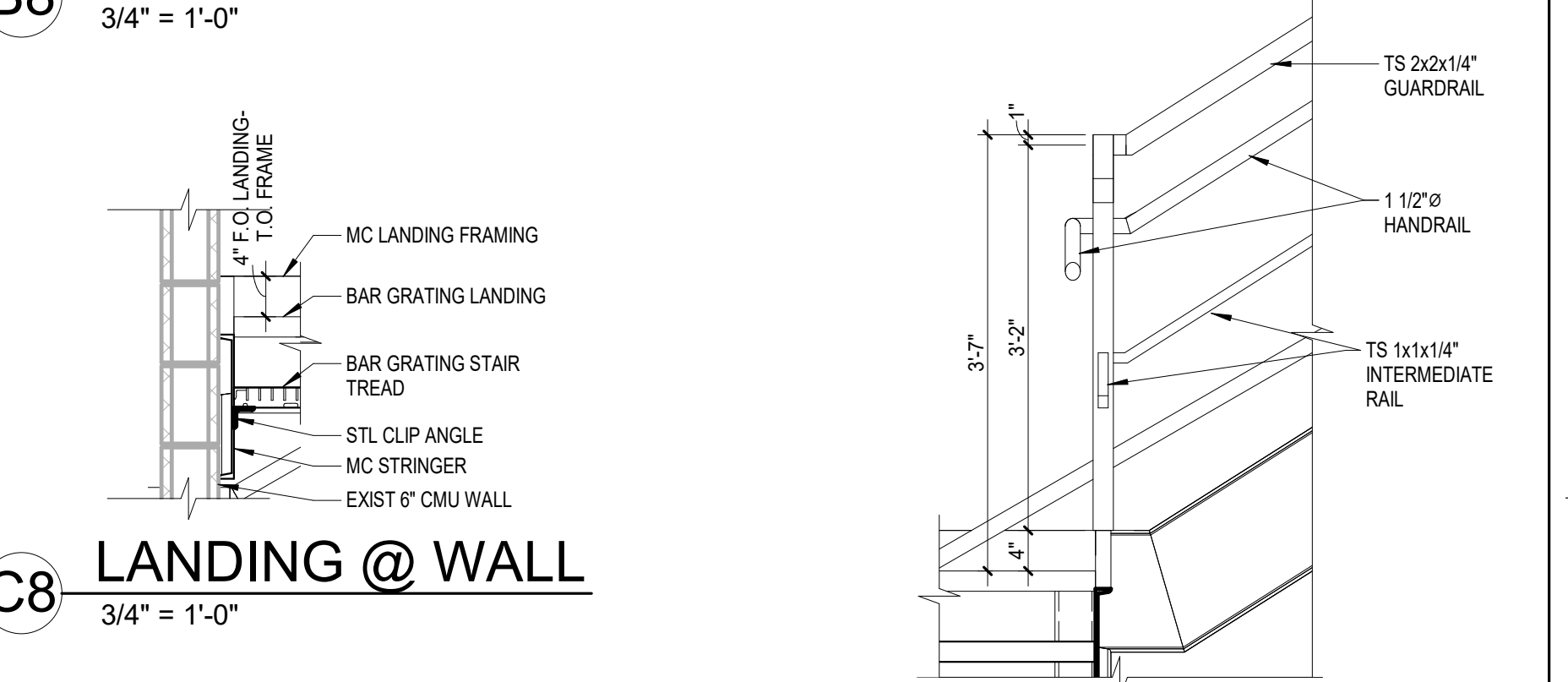
C6 WS01 SOUTH ELEVATION
1/4" = 1'-0"



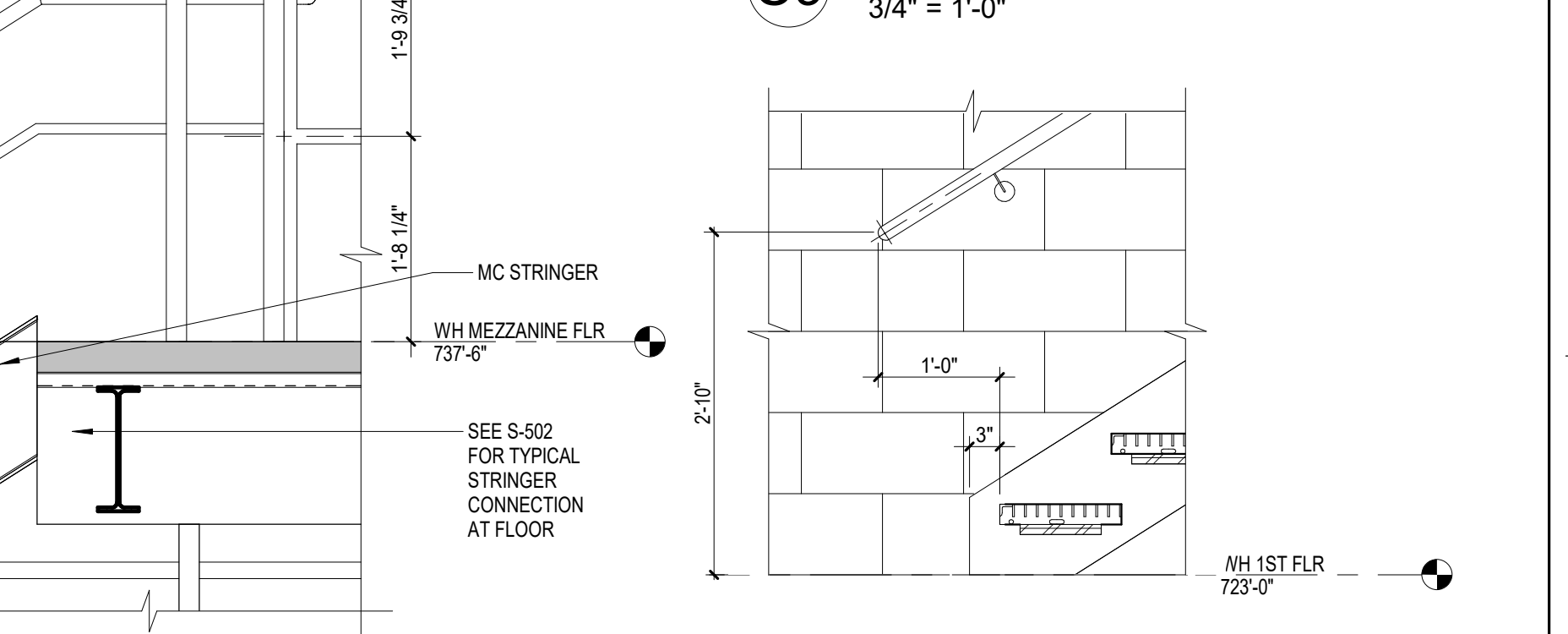
F6 SECN - STAIR WS01 UPPER RUN-LANDINGS
1/4" = 1'-0"



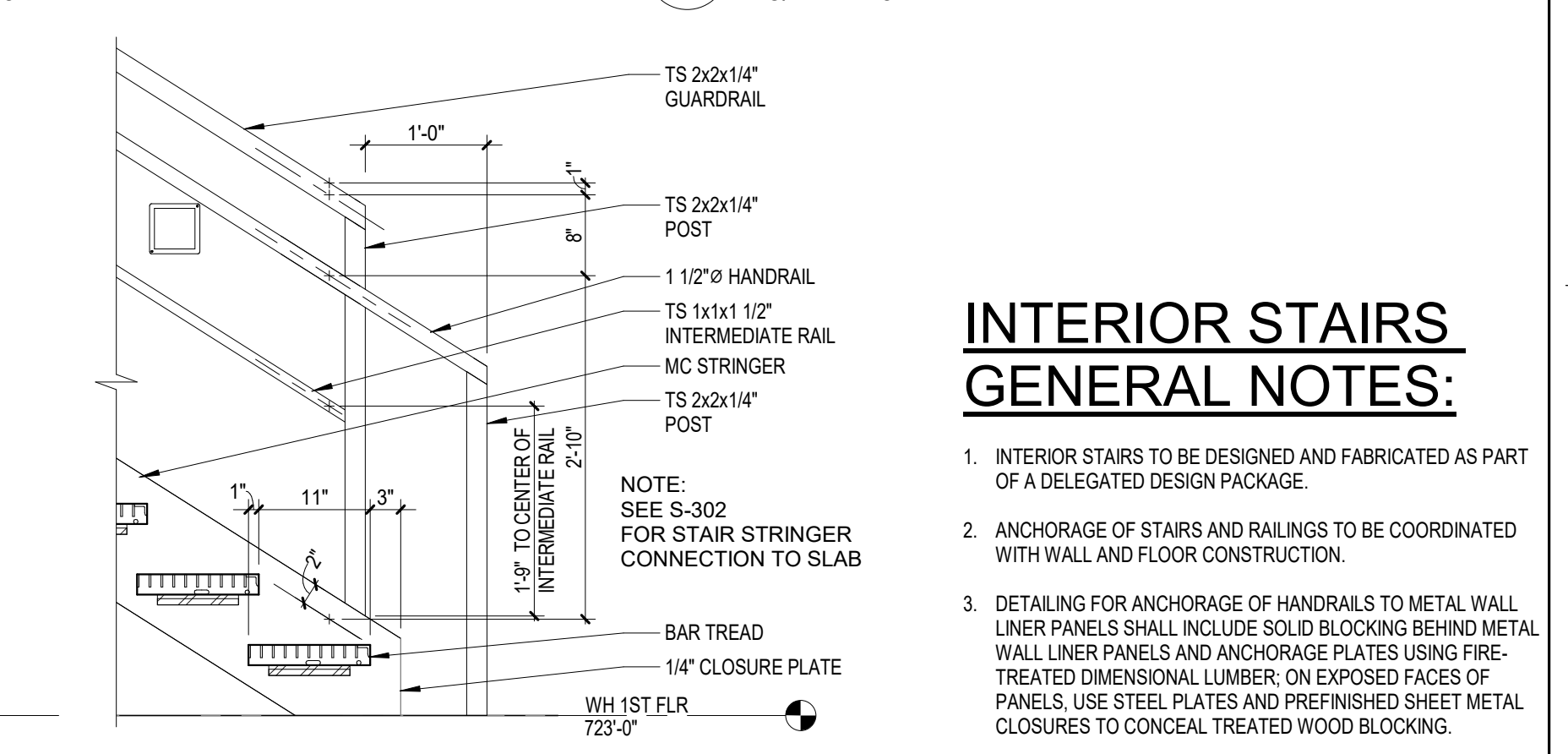
B8 SAFETY RAILING 3/4" = 1'-0"
B9 STAIR @ LANDING 3/4" = 1'-0"



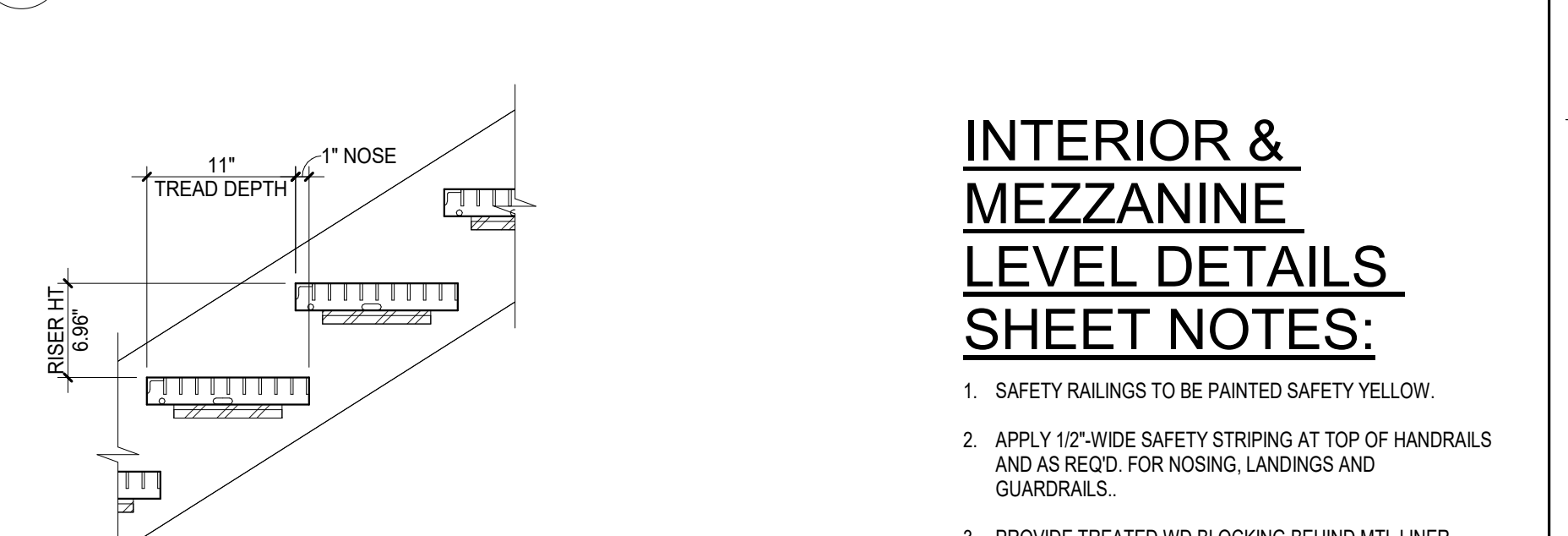
C8 LANDING @ WALL 3/4" = 1'-0"
C9 STAIR @ LANDING RAIL 3/4" = 1'-0"



D8 STAIR @ TOP DETAIL 3/4" = 1'-0"
D9 STAIR @ BASE ALONG CMU 3/4" = 1'-0"



E8 STAIR @ BASE RAILING 3/4" = 1'-0"



F8 TREAD-RISE DETAIL 1" = 1'-0"

INTERIOR STAIRS GENERAL NOTES:

- INTERIOR STAIRS TO BE DESIGNED AND FABRICATED AS PART OF A DELEGATED DESIGN PACKAGE.
- ANCHORAGE OF STAIRS AND RAILINGS TO BE COORDINATED WITH WALL AND FLOOR CONSTRUCTION.
- DETAILING FOR ANCHORAGE OF HANDRAILS TO METAL WALL LINER PANELS SHALL INCLUDE SOLID BLOCKING BEHIND METAL WALL LINER PANELS AND ANCHORAGE PLATES USING FIRE-TREATED DIMENSIONAL LUMBER, ON EXPOSED FACES OF PANELS. USE STEEL PLATES AND PREFINISHED SHEET METAL CLOSURES TO CONCEAL TREATED WOOD BLOCKING.
- REFER TO COLOR SCHEDULE AND ROOM FINISH SCHEDULE ON SHEET AE501 FOR PAINT COLORS OF STAIR AND RAILING ASSEMBLIES.

INTERIOR & MEZZANINE LEVEL DETAILS SHEET NOTES:

- SAFETY RAILINGS TO BE PAINTED SAFETY YELLOW.
- APPLY 1/2" WIDE SAFETY STRIPING AT TOP OF HANDRAILS AND AS REQ'D FOR NOSING, LANDINGS AND GUARDRAILS.
- PROVIDE TREATED WOOD BLOCKING BEHIND METAL LINER PANEL FOR WALL-MOUNTED HANDRAIL STANCHIONS.
- HANDRAILS AND GUARDRAILS TO COMPLY WITH APPLICABLE CODES FOR MOUNTING HEIGHTS AND EXTENSIONS.
- MEZZANINE SAFETY GATE ASSEMBLY. REFER TO SPECIFICATION 13.44.13.

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F
VA FORM 08-6231

BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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STAMP

ARCHITECT
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STATE OF MISSOURI
24 MAR 2021

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
INTERIOR STAIR & MATERIAL LIFT PLANS, SECTIONS & DETAILS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201

Project Number
589A4-20-158

Building Number
14

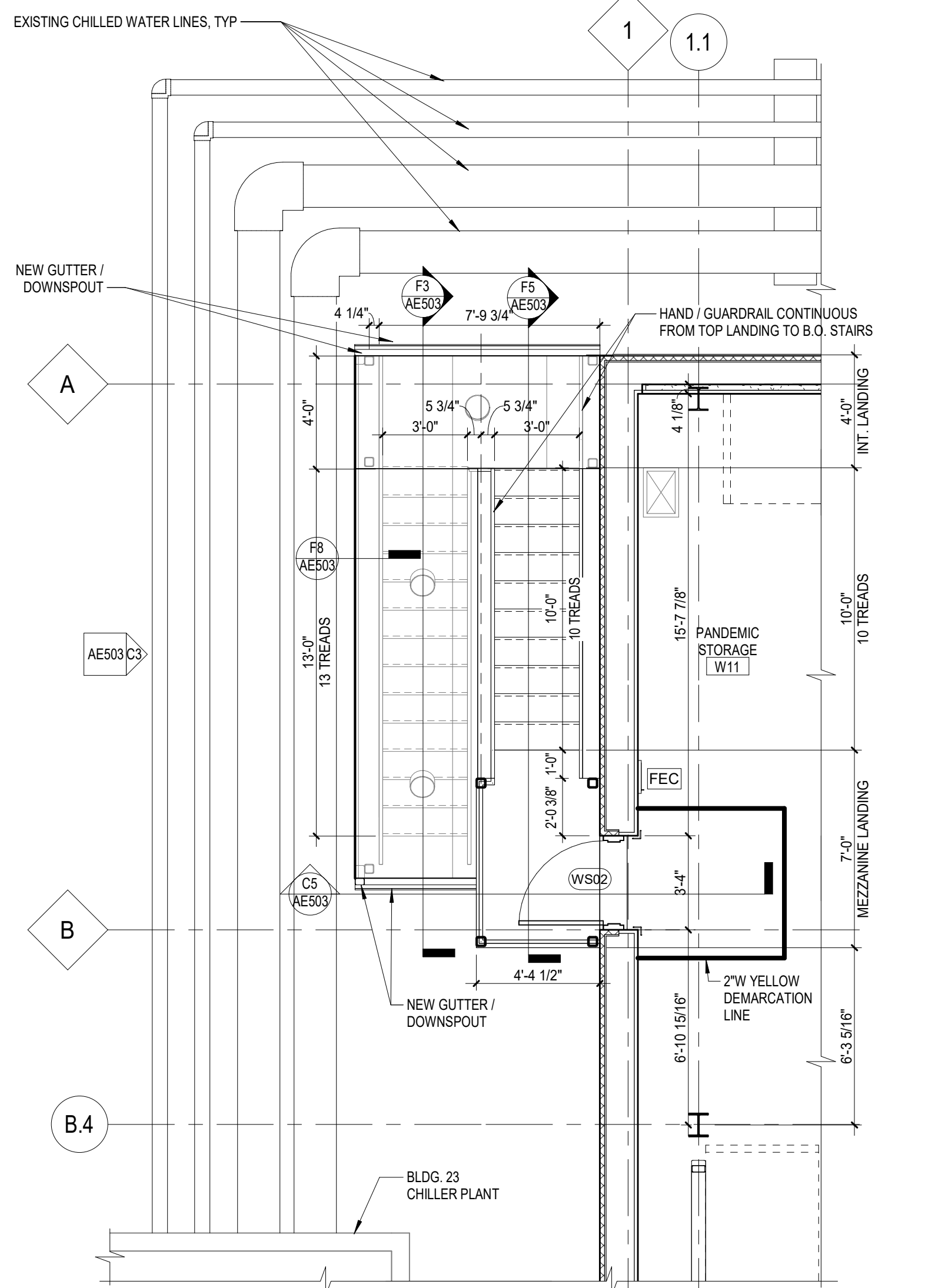
Drawing Number
AE502

Dwg. # 35 of 94

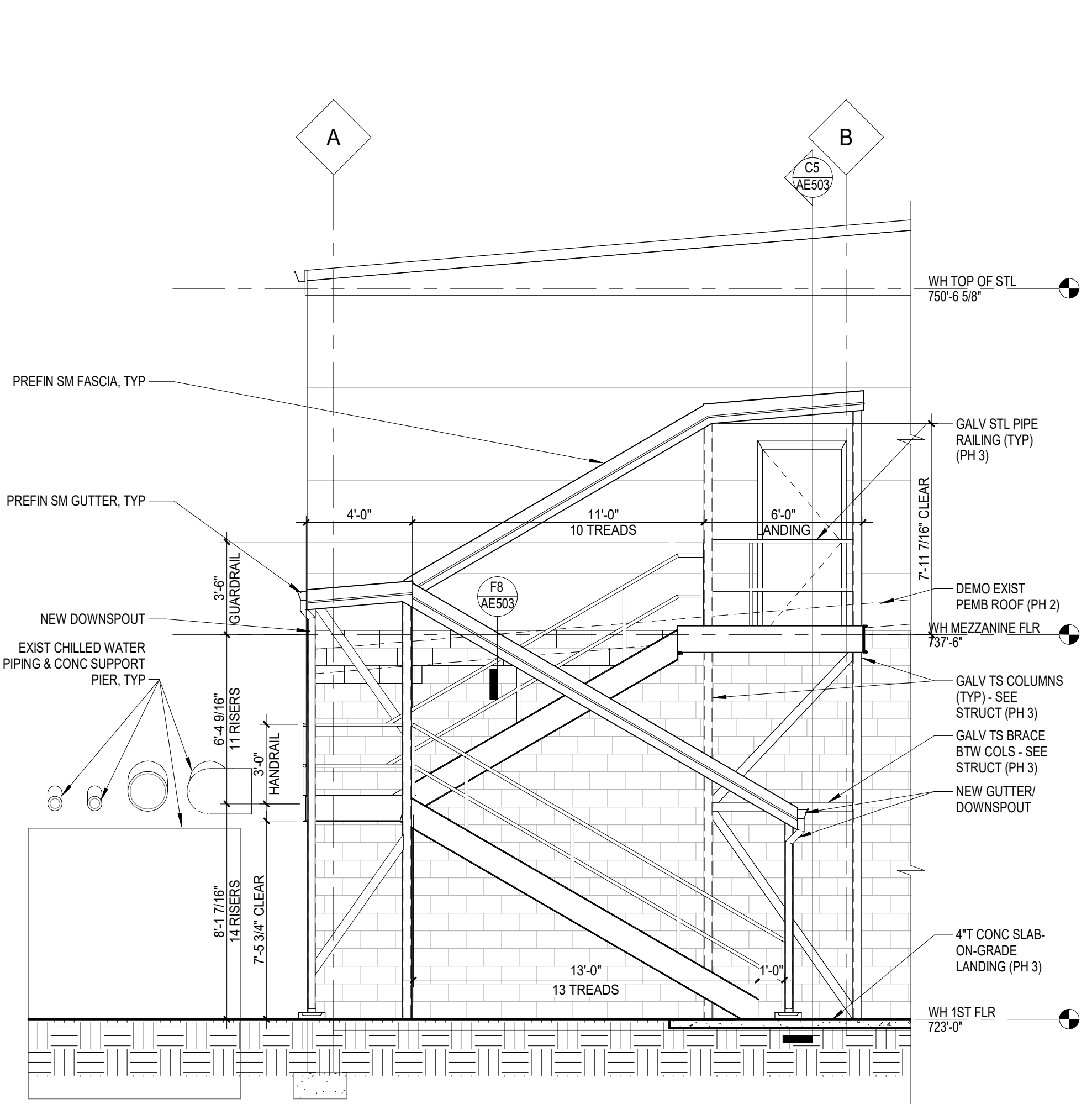
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03/24/2021

Checked
AHT

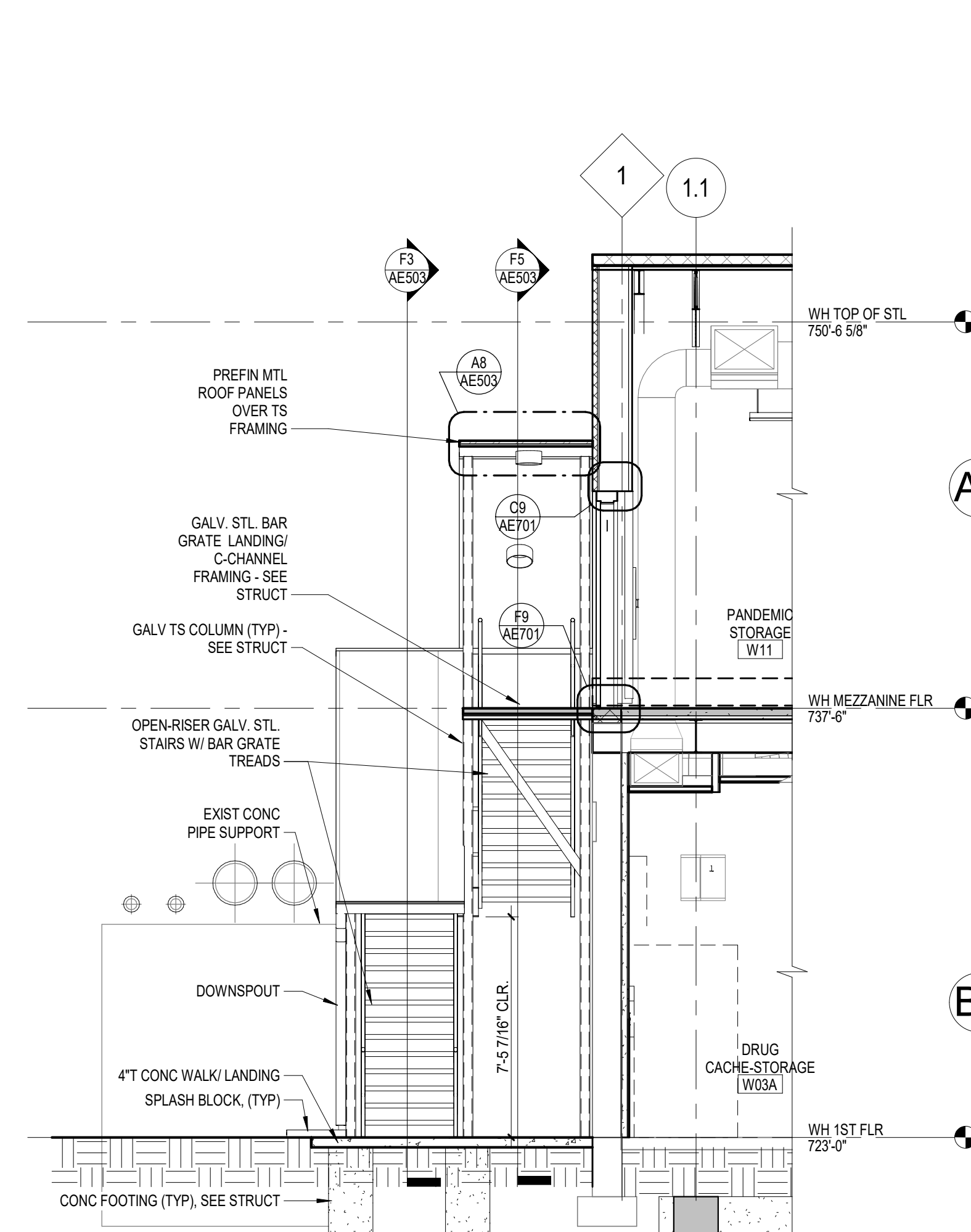
Drawn
TJF



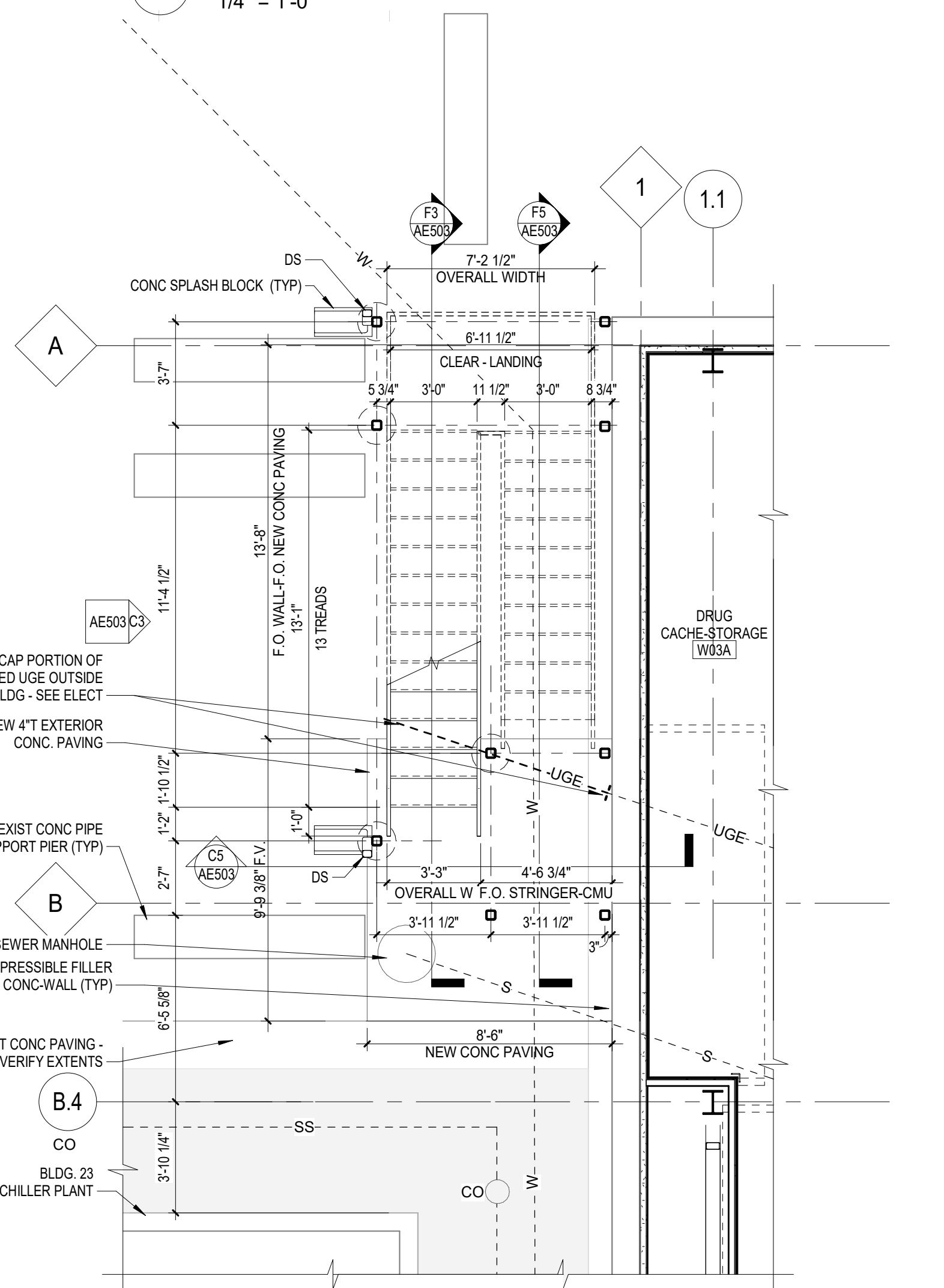
C1 STAIR WS02 MEZZANINE LEVEL PLAN
1/4" = 1'-0"



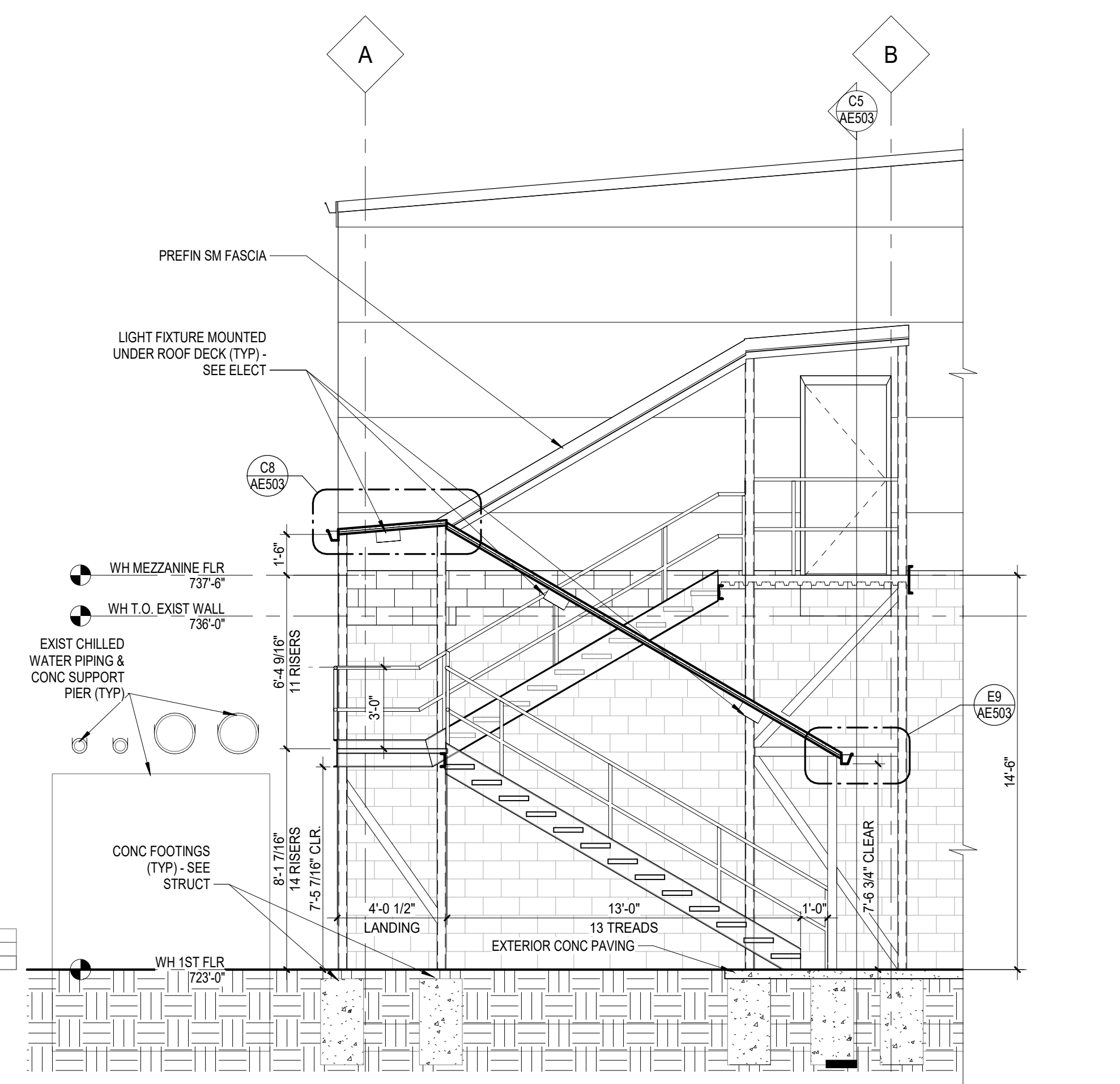
C3 WS02 EAST ELEV - EXTERIOR STAIR
1/4" = 1'-0"



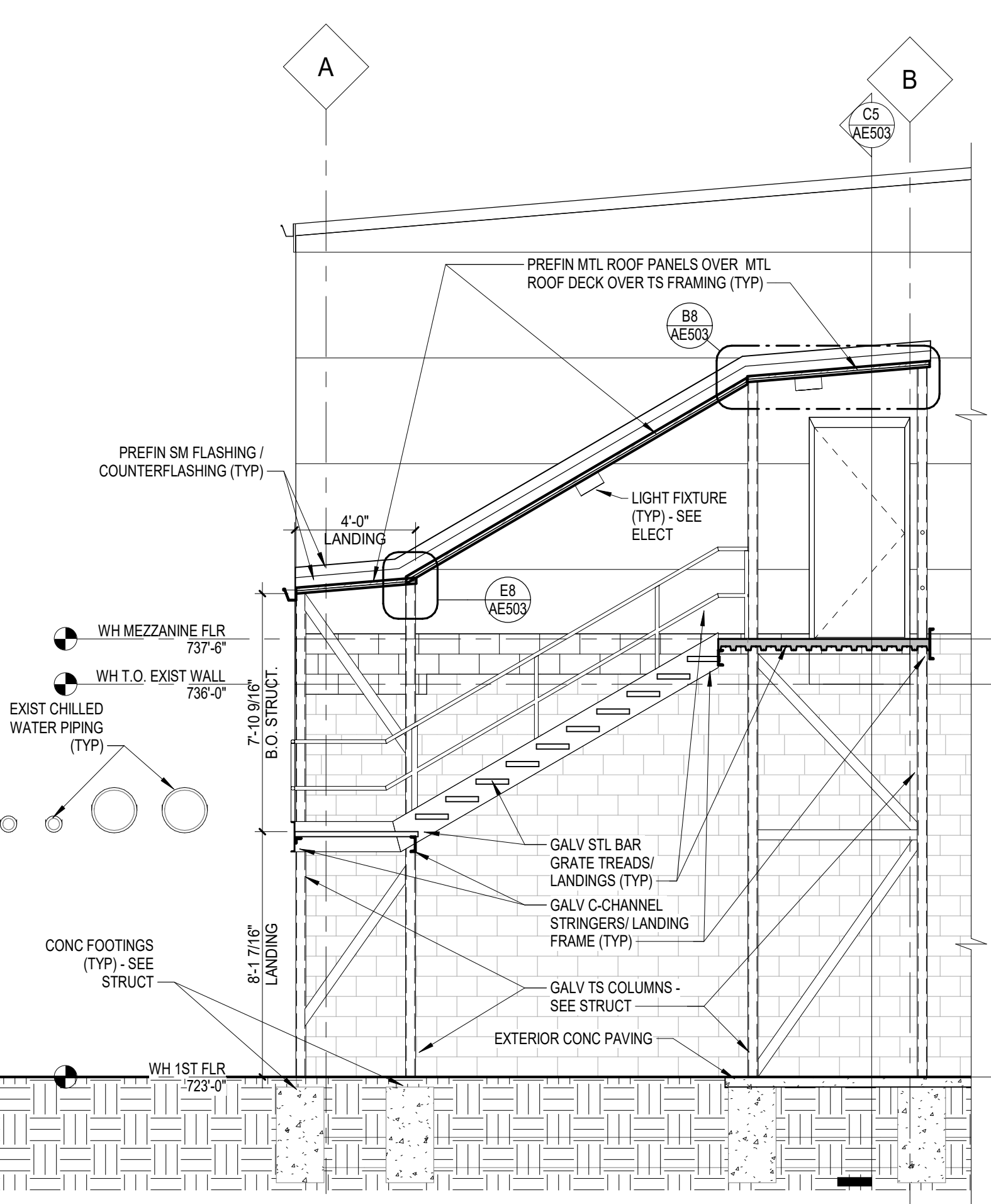
C5 SECN - STAIR WS02 MEZZ FIRE STAIRS
1/4" = 1'-0"



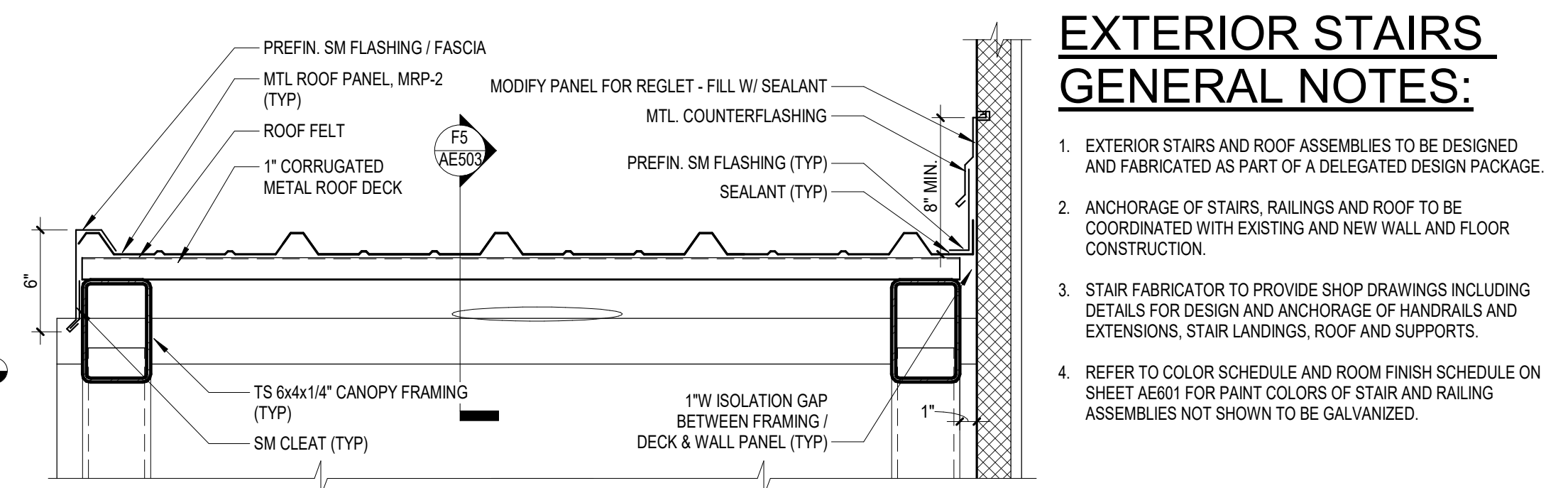
F1 STAIR WS02 LOWER LEVEL PLAN
1/4" = 1'-0"



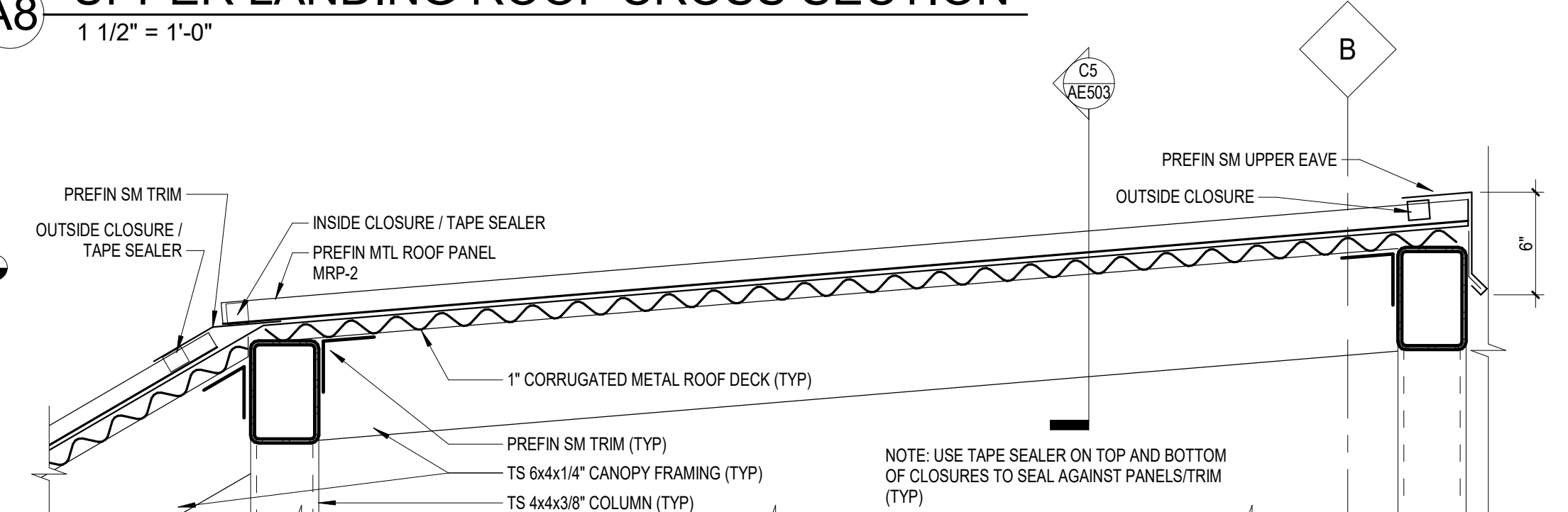
F3 SECN - STAIR WS02 LOWER RUN-LANDING
1/4" = 1'-0"



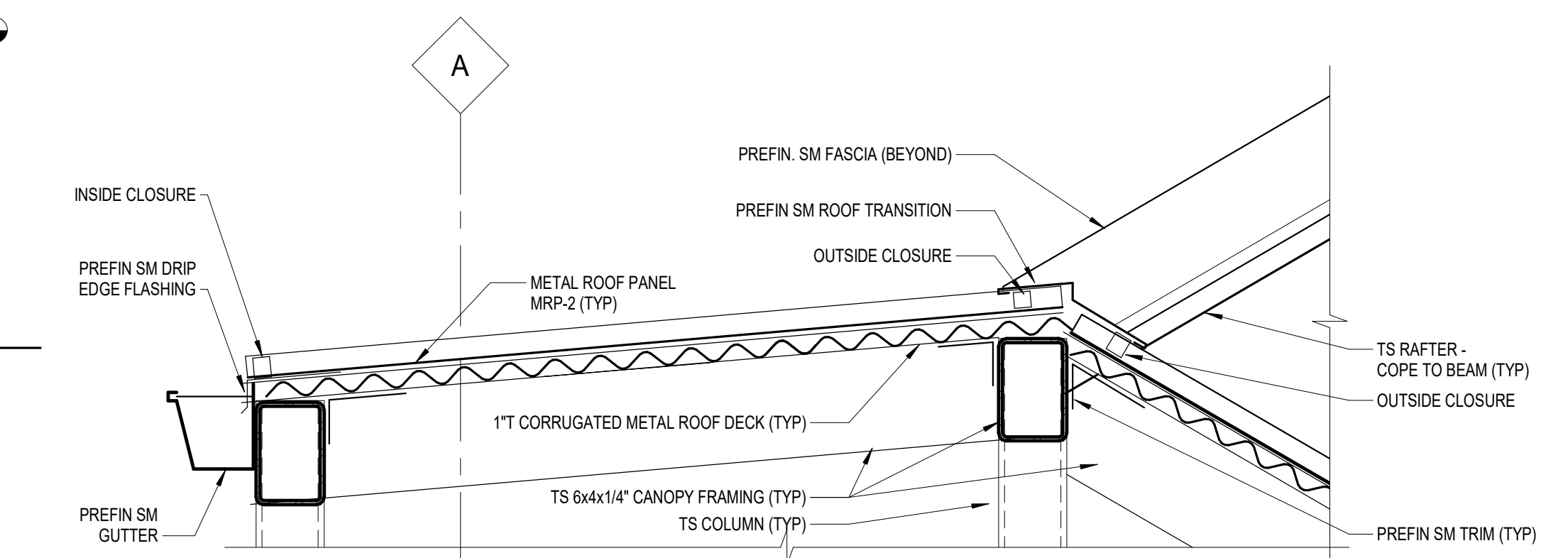
F5 SECN - STAIR WS02 UPPER RUN-LANDINGS
1/4" = 1'-0"



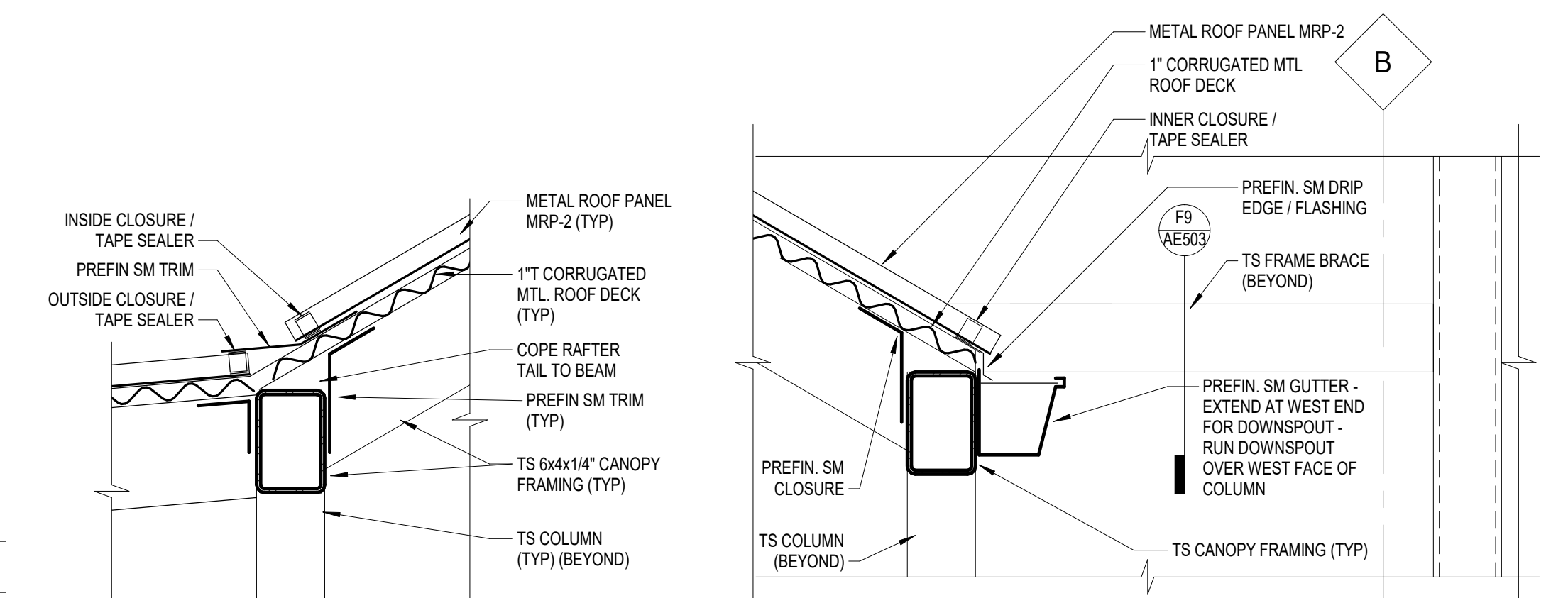
A8 UPPER LANDING ROOF CROSS SECTION
1 1/2" = 1'-0"



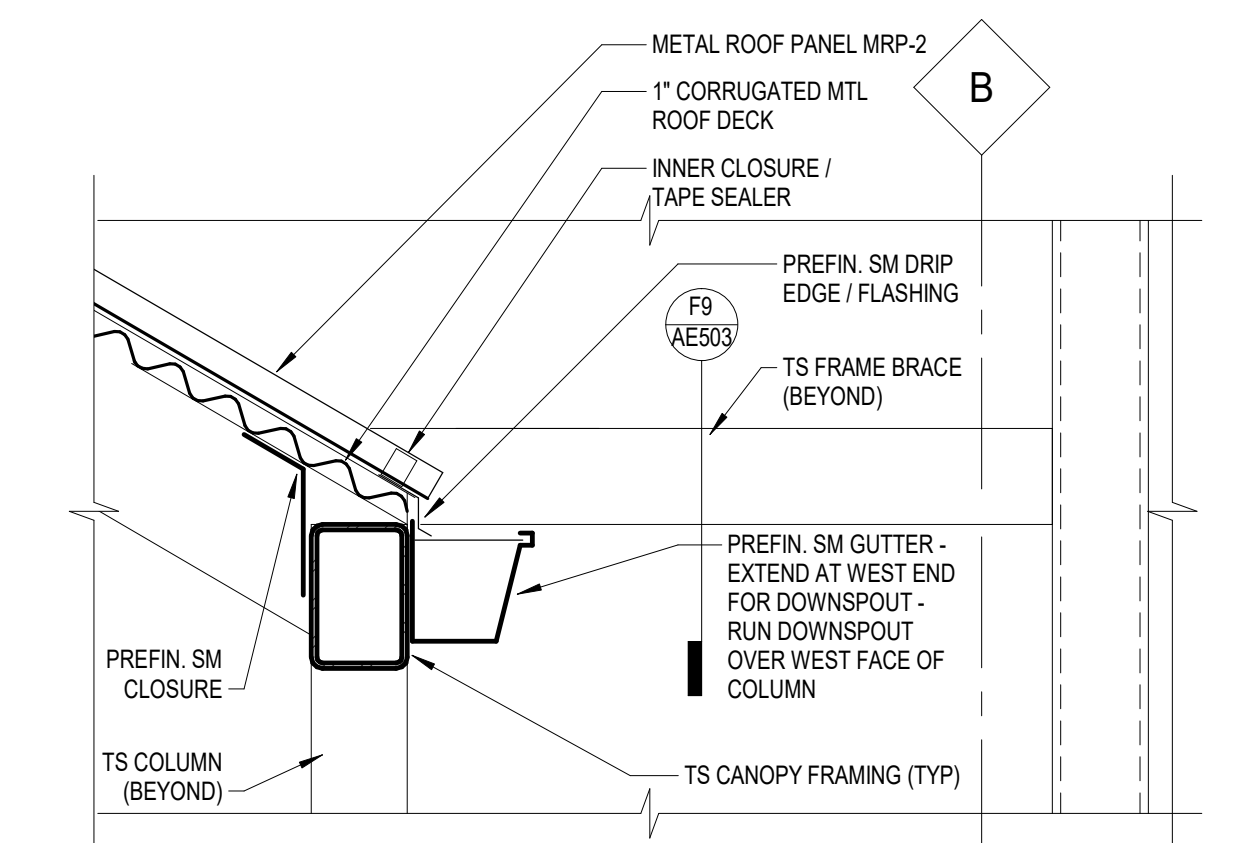
B8 UPPER LANDING ROOF LONGITUDINAL SECTION
1 1/2" = 1'-0"



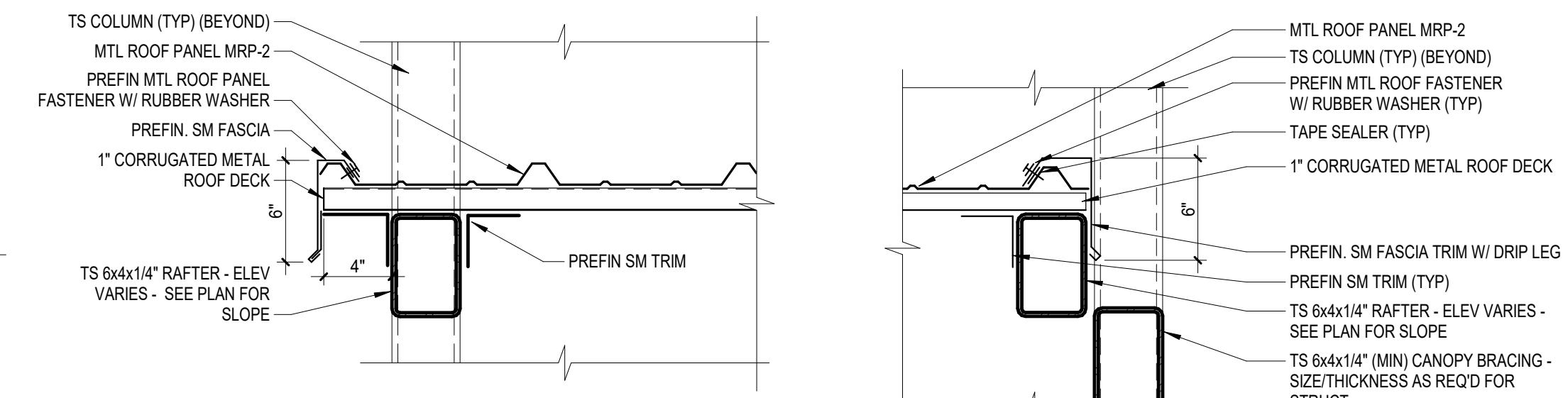
C8 EXT. STAIR INTERMED. LANDING ROOF SEC'N.
1 1/2" = 1'-0"



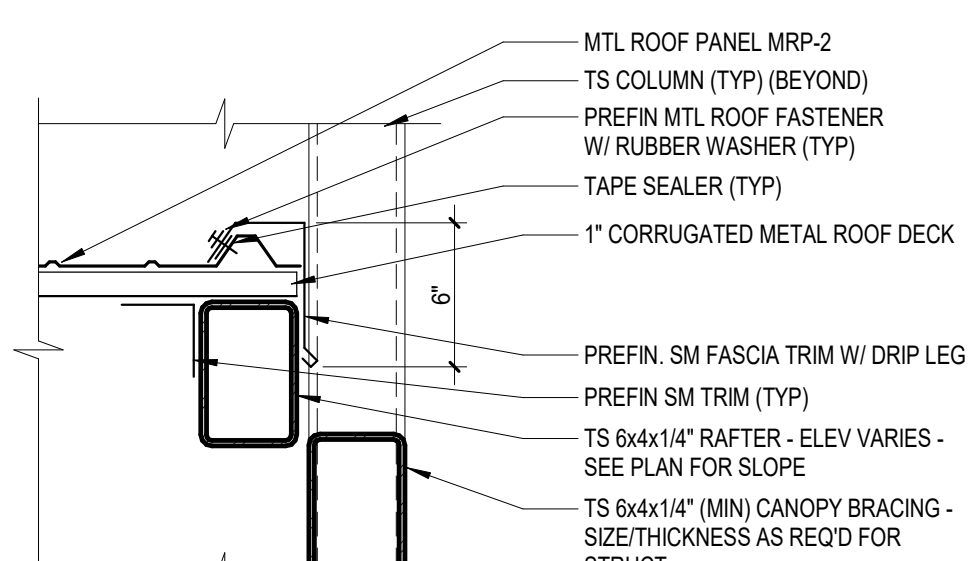
E8 EXT. STAIR ROOF DTL.
1 1/2" = 1'-0"



E9 EXT. STAIR LOW ROOF-GUTTER
1 1/2" = 1'-0"



F8 EXT. STAIR LOWER ROOF DTL.
1 1/2" = 1'-0"



F9 LOWER ROOF-FRAME
1 1/2" = 1'-0"

EXTERIOR STAIRS GENERAL NOTES:

- EXTERIOR STAIRS AND ROOF ASSEMBLIES TO BE DESIGNED AND FABRICATED AS PART OF A DELEGATED DESIGN PACKAGE.
- ANCHORAGE OF STAIRS, RAILINGS AND ROOF TO BE COORDINATED WITH EXISTING AND NEW WALL AND FLOOR CONSTRUCTION.
- STAIR FABRICATOR TO PROVIDE SHOP DRAWINGS INCLUDING DETAILS FOR DESIGN AND ANCHORAGE OF HANDRAILS AND EXTENSIONS, STAIR LANDINGS, ROOF AND SUPPORTS.
- REFER TO COLOR SCHEDULE AND ROOM FINISH SCHEDULE ON SHEET A601 FOR PAINT COLORS OF STAIR AND RAILING ASSEMBLIES NOT SHOWN TO BE GALVANIZED.

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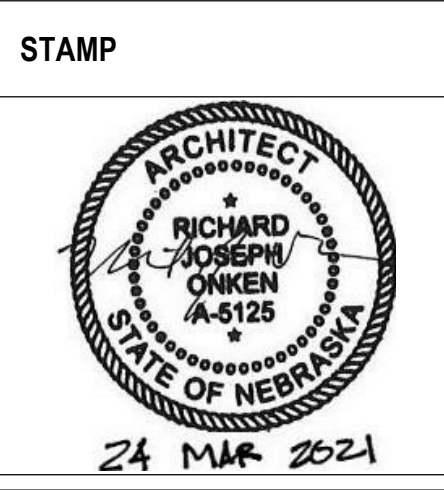
BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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incandescence life safety
a fire protection engineering firm



Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
EXTERIOR STAIR PLANS, SECTIONS & DETAILS

Phase
BID SET

Approved:

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

Checked
AHT

Drawn
TJF

Project Number
589A4-20-158

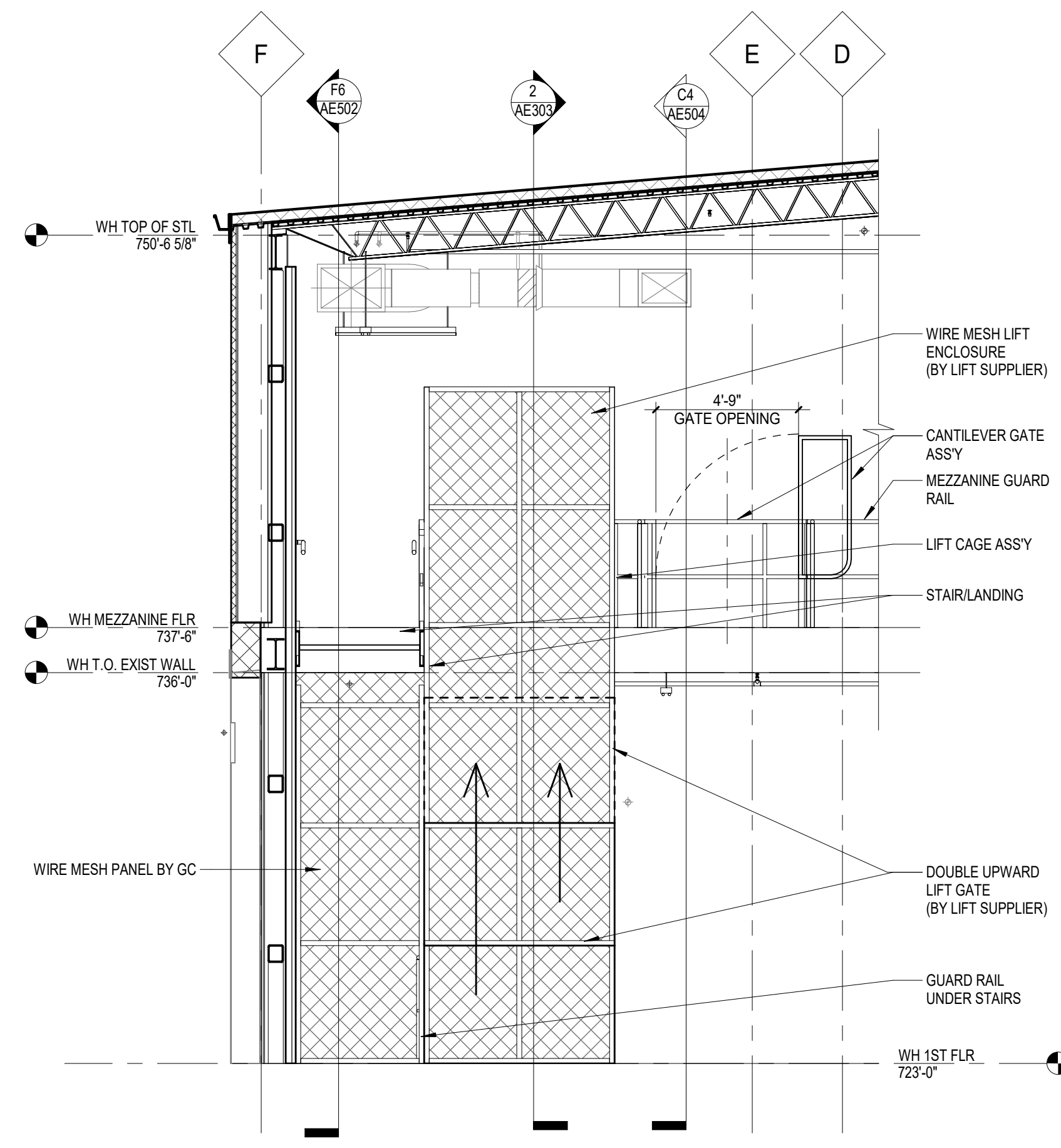
Building Number
14

Drawing Number
AE503

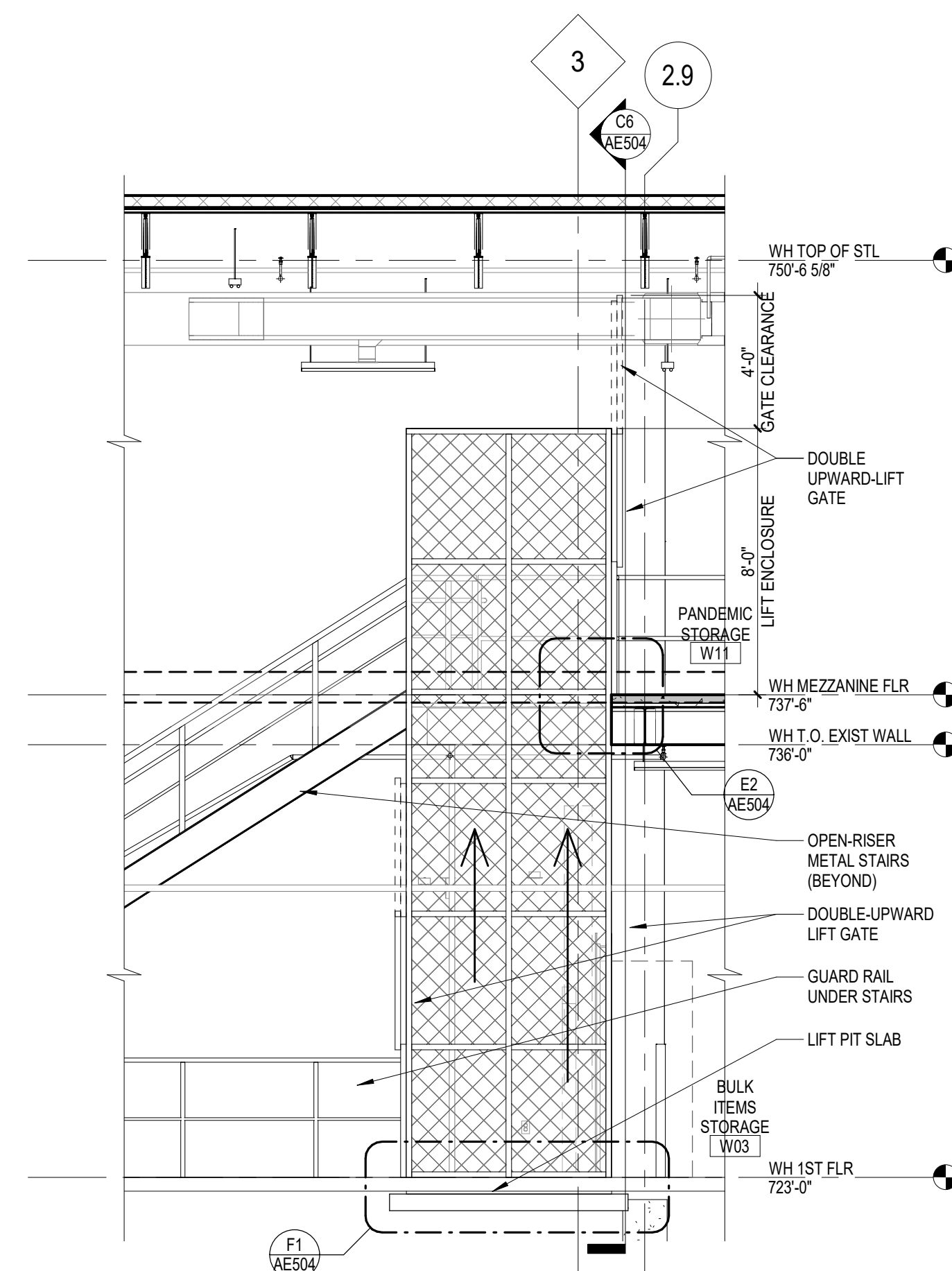
Dwg. # 36 of 94

**MATERIAL LIFT
GENERAL NOTES:**

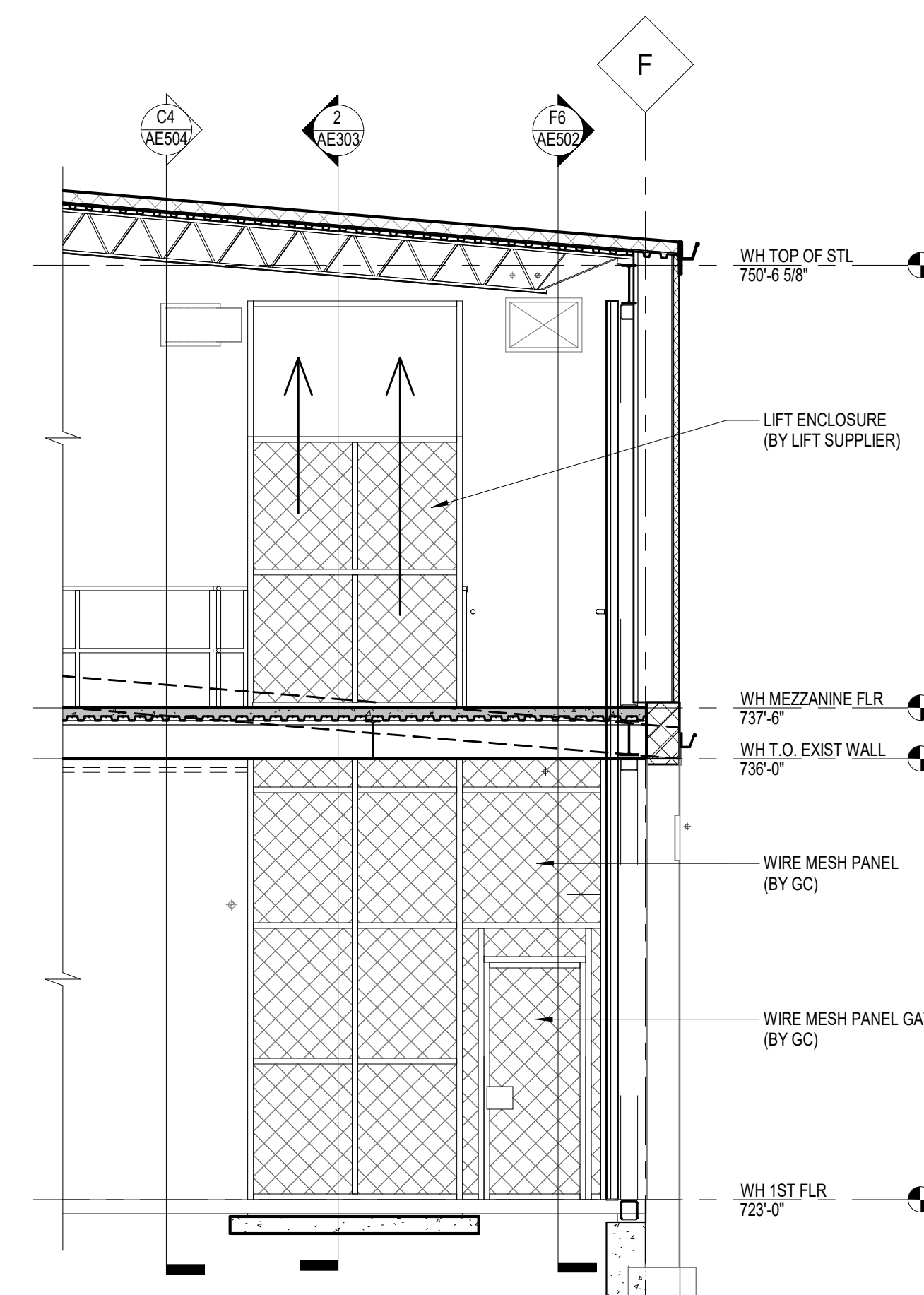
- MATERIAL LIFT TO BE PART OF BASE BID. BID ITEM #2 - DEDUCT ALTERNATE WILL REMOVE LIFT FROM PROJECT. SEE SECTION 01 00 00 FOR BID ITEM INFORMATION.
- MATERIAL LIFT ENCLOSURE, GATES AND EQUIPMENT TO BE PROVIDED AND INSTALLED BY MATERIAL LIFT SUPPLIER. CONTRACTOR TO COORDINATE UTILITY REQUIREMENTS, ANCHORAGE TO STRUCTURE AND REQUIREMENTS FOR LIFT PIT WITH LIFT SUPPLIER.
- ENCLOSURE FOR LIFT EQUIPMENT TO BE PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE REQUIREMENTS FOR ACCESS AND UTILITIES PLACEMENT WITH LIFT SUPPLIER.



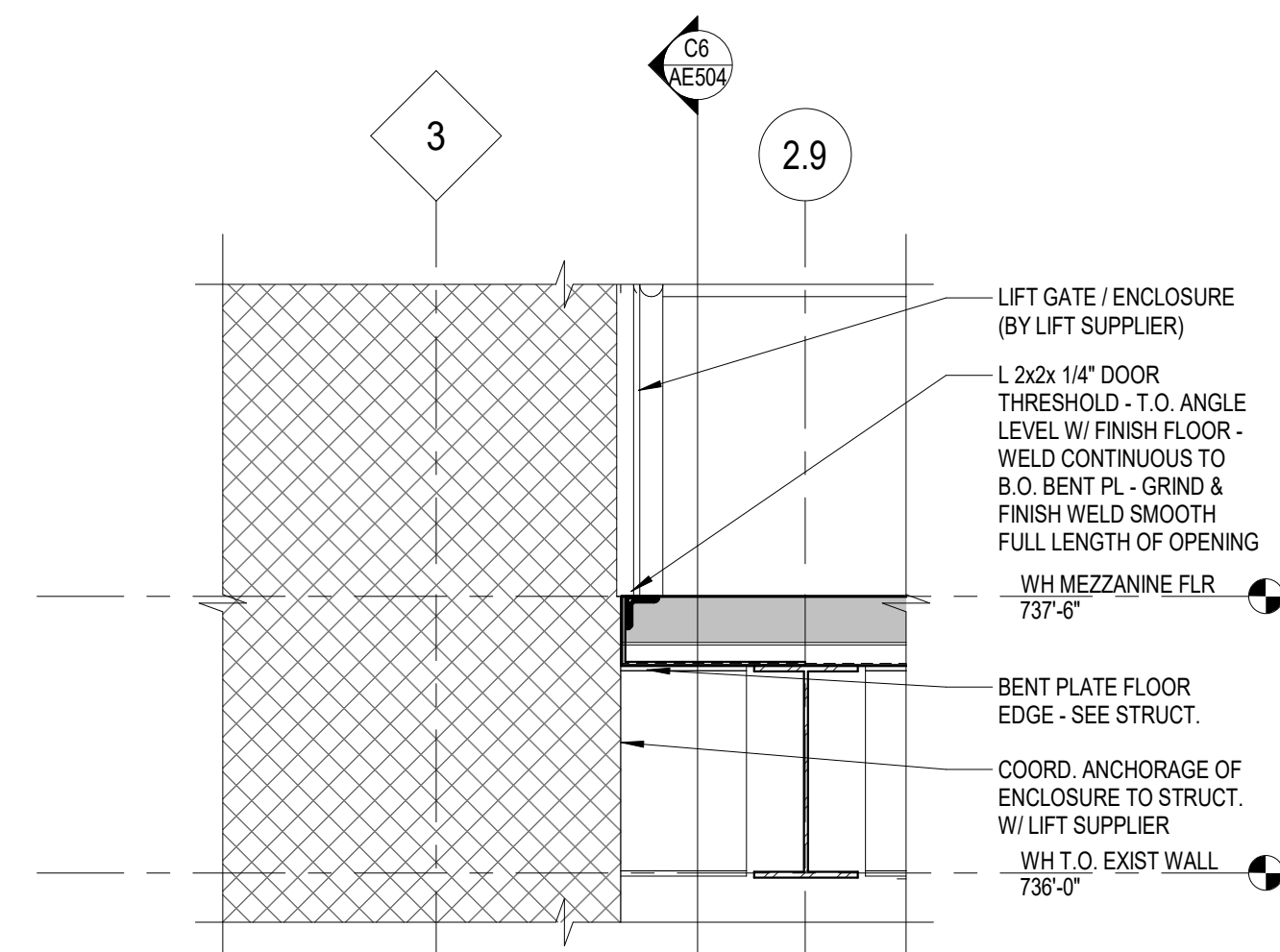
C1 WE01 MAT'L LIFT EAST ELEVATION
1/4" = 1'-0"



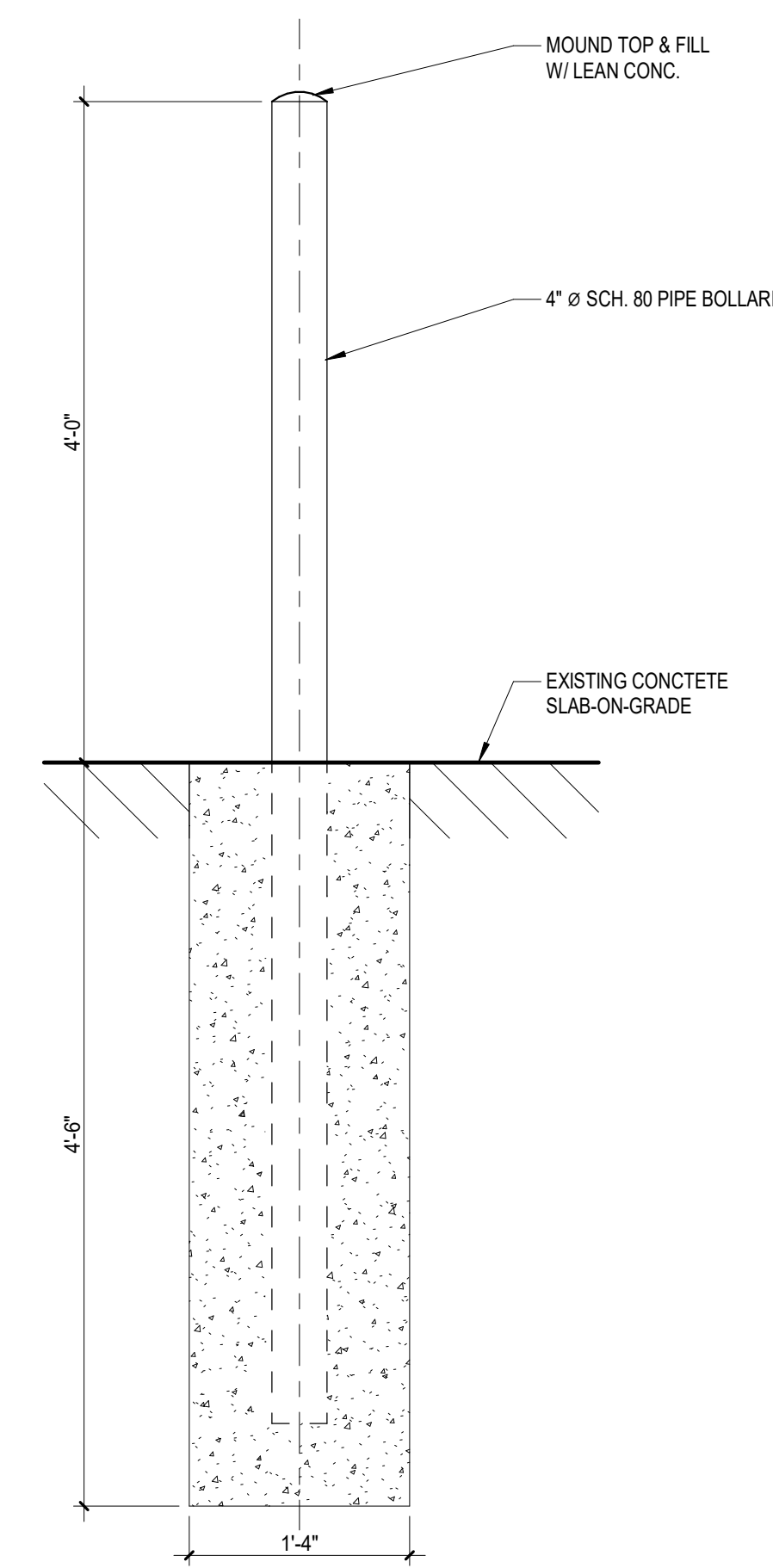
C4 SECN - WE01 MATERIAL LIFT
1/4" = 1'-0"



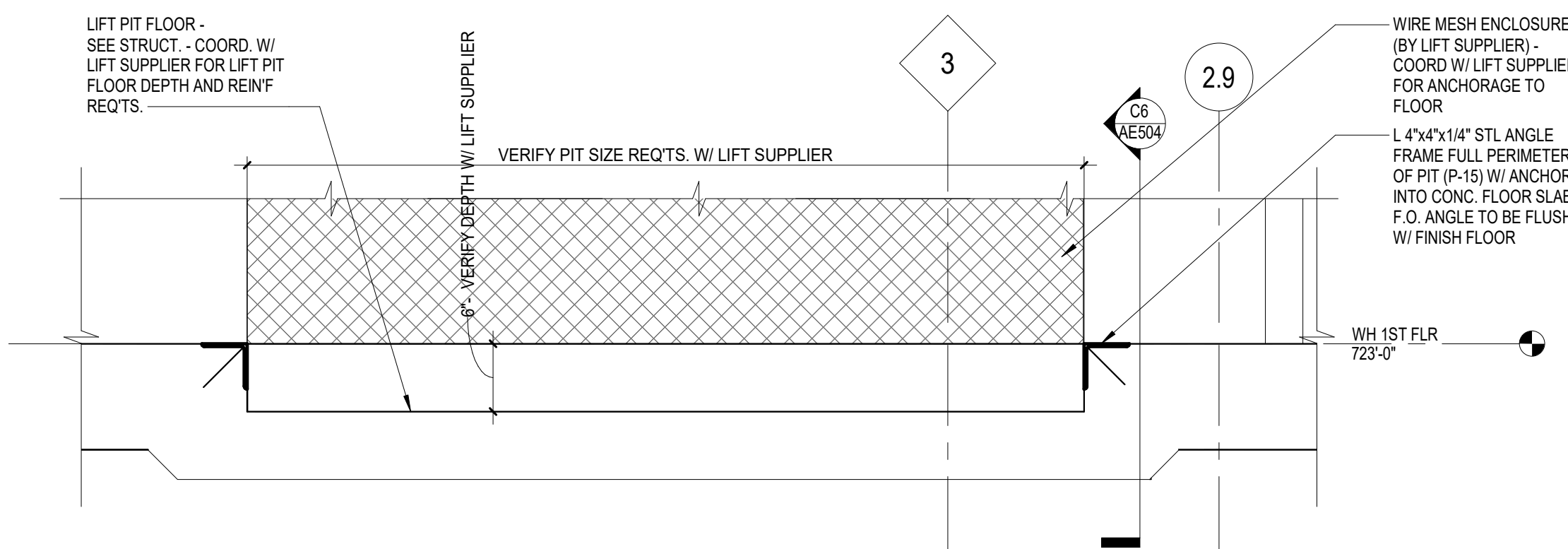
C6 WE01 MAT'L LIFT WEST ELEVATION
1/4" = 1'-0"



E2 WE01 MAT'L LIFT - MEZZANINE DETAIL
1" = 1'-0"



F4 INTERIOR PIPE BOLLARD
1" = 1'-0"



F1 WE01 MAT'L LIFT PIT SECTION-DETAIL
1" = 1'-0"

BID ITEMS & DEDUCT ALTERNATES:

- REFER TO SECTION 01 00 00 FOR STATEMENT OF BID ITEMS
- A. BID ITEM #1. GENERAL CONSTRUCTION: BASE BID: Renovate Warehouse for Pandemic Preparedness. Includes all scope communicated in the drawings and specifications.
- Work includes general construction, alterations, walks, grading, drainage, necessary removal of existing structures and construction of certain other items.
- B. BID ITEM #2. Renovate Warehouse for Pandemic Preparedness. Includes all scope described in Bid Item #1 - excluding Bid Deduct #1 described below.
- Work associated with new Material Lift WE01.
 - Work associated with construction and finishes for new Rooms W10 and W109 (Demolition of existing Rooms W07, W08 and W09, including plumbing, fixtures and finishes in Room W08 will be retained in Base Bid).
 - Work associated with installation of new ceilings and finishes in Rooms W10A, W10B and W10C.
 - Demolition and renovation of work counters at Rooms W10A and W10C.

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BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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ARCHITECT
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STATE OF MISSOURI
24 MAR 2021

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
MATERIAL LIFT ELEVATIONS, SECTIONS & DETAILS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

Checked
AHT

Drawn
TJF

Project Number
589A4-20-158

Building Number
14

Drawing Number
AE504
Dwg. # 37 of 94

COLOR SCHEDULE

Table with columns: CODE, PRODUCT, MANUFACTURER (NOTED), PATTERN/COLOR, MISC., REMARKS. Lists various materials like ceiling tiles, floor tiles, doors, and paint finishes.

ROOM FINISH SCHEDULE

Table with columns: ROOM NUMBER, ROOM NAME, FLOOR, BASE, WALLS (NORTH, EAST, SOUTH, WEST), CEILING MATERIAL, REMARKS. Lists room finishes for various rooms like prosthetics stor, equipment prep, staff toilet, etc.

FINISH SCHEDULE

NOTES:

- 1. ALL FLOORING TRANSITIONS OCCUR AT THE CENTERLINE OF THE DOOR. FLOOR COVERINGS SHALL BE BUILT UP TO HAVE MINIMAL HEIGHT DIFFERENCES AT TRANSITIONS.
2. REFERENCE FINISH PLAN FOR MULTIPLE FLOORING LOCATIONS & PATTERNS. REFERENCE FINISH SCHEDULE FOR MATERIALS NOT INDICATED ON PLANS.
3. REFERENCE SPECIFICATIONS, INTERIOR ELEVATIONS AND DETAIL DRAWINGS FOR SPECIAL MATERIALS.
4. SEE COLOR SCHEDULE FOR HIM DOOR AND FRAME COLORS.
5. PAINT ALL WORKSURFACE BRACKETS COLOR OF ADJACENT SURFACE.
6. WHERE TRIM IS NOT SPECIFIED, CALLX ALL EXPOSED EDGES OR SEAMS OF WALL PROTECTION WITH CLEAR CALKING.
7. REFER TO FINISH PLAN FOR ADDITIONAL WALL PROTECTION LOCATIONS AND HEIGHTS WHICH MAY NOT BE INDICATED ON THIS SCHEDULE OR IN INTERIOR DETAILS.
8. REFER TO INTERIOR ELEVATIONS FOR WALL TILE PATTERNS.
9. SOFFIT PAINT COLOR WILL BE APPLIED TO BOTH VERTICAL AND HORIZONTAL SURFACES. ALL SOFFITS TO BE PAINTED THE COLOR OF ADJACENT WALL U.N.O. SPECIALTY SOFFITS WILL BE INDICATED IN THE REFLECTED CEILING PLAN AND FINISH SCHEDULE.
10. REFERENCE THE REFLECTED CEILING PLAN FOR CEILING HEIGHTS AND SOFFIT ACCENT PAINT LOCATIONS.
11. ALL GYP. BD. CEILINGS TO BE PAINTED CEILING WHITE (P-3) U.N.O.
12. USE EPOXY PAINT FOR HIGH-MOISTURE AREAS.
13. SEE INTERIOR DETAILS FOR RIGID WALL PROTECTION MOLDINGS AND CALKING APPLICATION.
14. USE DRY-FALL PAINT FOR ALL OVERHEAD PAINTING APPLICATIONS.
15. SEE REFLECTED CEILING PLAN GENERAL NOTES SHIT. AC10 FOR ADDITIONAL INFORMATION ON PAINTING OF CEILING-SUSPENDED ITEMS.

MANUFACTURER REFERENCE NOTES:

- 1. MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN SERVE AS A BASIS OF DESIGN TO IDENTIFY COLORS, FINISHES, TEXTURES AND PATTERNS.
2. PRODUCTS OF OTHER MANUFACTURERS EQUIVALENT TO COLORS, FINISHES, TEXTURES AND PATTERNS OF MANUFACTURERS LISTED THAT MEET REQUIREMENTS OF TECHNICAL SPECIFICATIONS WILL BE ACCEPTABLE UPON APPROVAL IN WRITING BY THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) FOR FINISH REQUIREMENTS.
3. WHERE ITEMS INCLUDE THE TERM "MATCH FACILITY STANDARD" OR SIMILAR, THE PRODUCTS LISTED ARE BASED OFF OF MANUFACTURERS CURRENTLY USED BY THE FACILITY. CONTRACTOR SHALL COORDINATE WITH THE COR AND THE FACILITY'S INTERIORS STAFF FOR APPROVAL OF SUBMITTED PRODUCTS FOR COLORS, FINISHES, TEXTURES AND PATTERNS.
4. THE ABOVE NOTES APPLY TO ALL SUCH INSTANCES IN THE DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

BID ITEMS & DEDUCT

ALTERNATES:

- REFER TO SECTION 01 00 00 FOR STATEMENT OF BID ITEMS
A. BID ITEM #1: GENERAL CONSTRUCTION: BASE BID: Renovate Warehouse for Pandemic Preparedness: Includes all scope communicated in the drawings and specifications.
1. Work includes general construction, alterations, walls, grading, drainage, necessary removal of existing structures and construction of certain other items.
B. BID ITEM #2: Renovate Warehouse for Pandemic Preparedness: Includes all scope described in Bid Item #1 - including Bid Deduct #1 described below:
1. Work associated with new Material LR WE01.
2. Work associated with construction and finishes for new Rooms W08 and W09 (Demolition of existing Rooms W07, W08 and W09, including plumbing, fixtures and finishes in Room W08 will be retained in Base Bid).
3. Work associated with installation of new ceilings and finishes in Rooms W04, W05A and W06.
4. Demolition and renovation of work counters at Rooms W10A and W10C.

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Vertical text on the right margin: A, B, C, D, E, F

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Table with columns: BID SET, Revisions, Date. Shows bid set date as 03/24/2021.

ARCHITECT/ENGINEER OF RECORD: Calvin L. Hinz Architects, P.C. 3705 North 200th Street, Elk River, MN 55330. Phone: 402.291.6941 Fax: 402.291.9193.

IMEG logo and contact information: IMEG Corp., 15 Summit Drive, Suite 104, St. Louis, MO 63143. Phone: (314) 954-2534.

Office of Construction and Facilities Management logo and U.S. Department of Veterans Affairs logo.

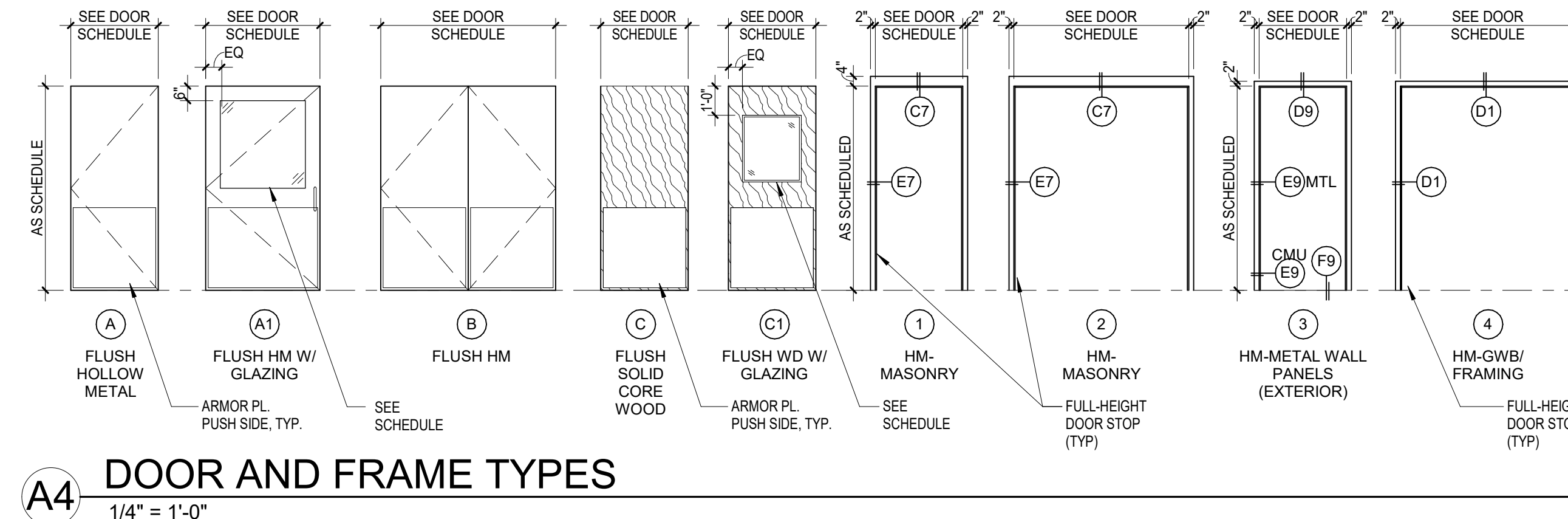
Drawing Title: ROOM FINISH SCHEDULE & COLOR SCHEDULE. Approved: [Signature]

Phase: BID SET. FULLY SPRINKLERED

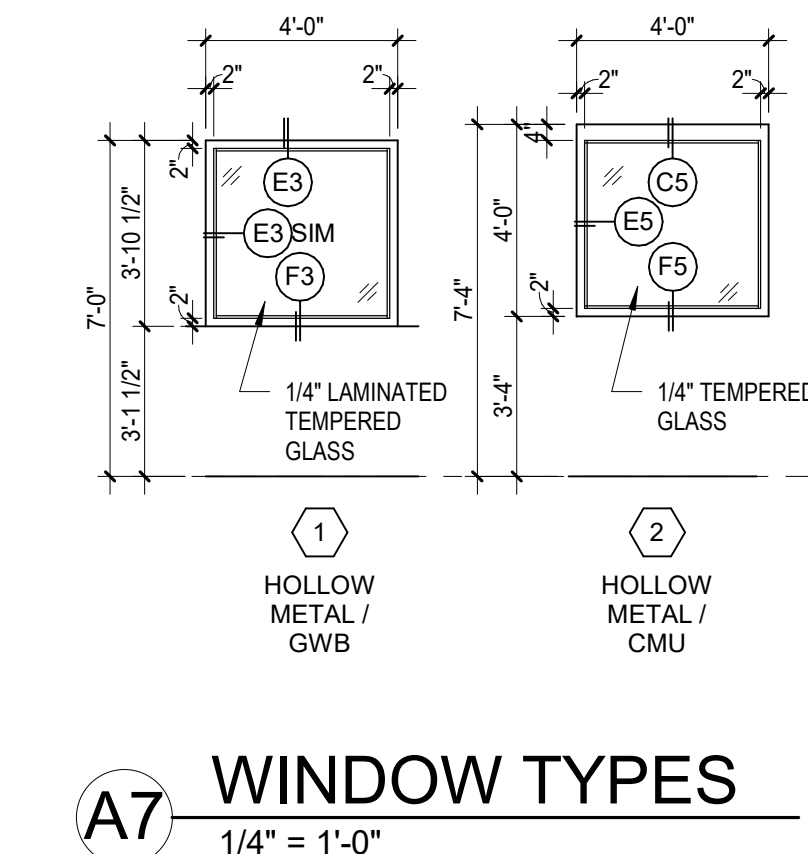
Project Title: RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS. Location: HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201.

Project Number: 5894A-20-158. Building Number: 14. Drawing Number: AE001. Dwg. # 38 of 94.

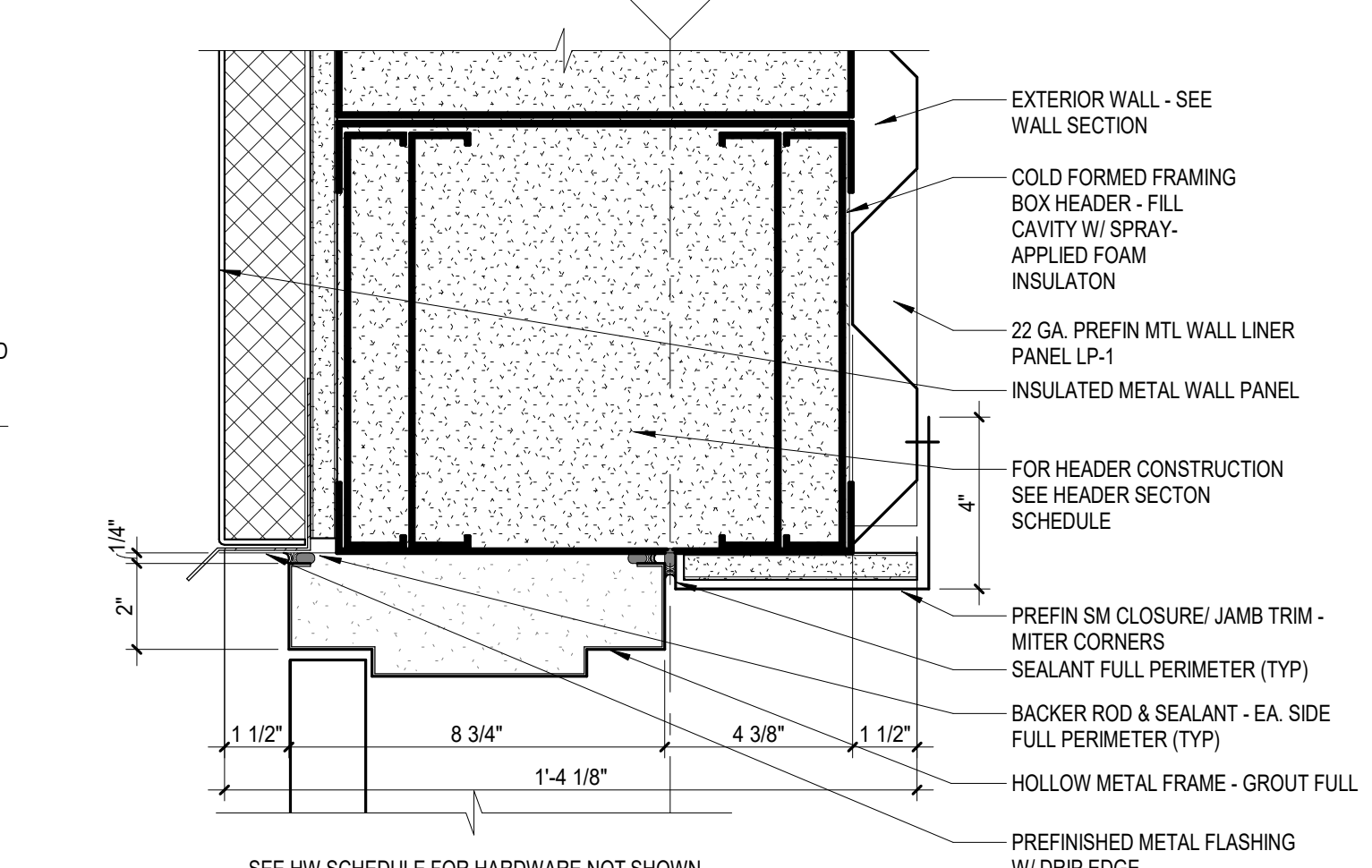
DOOR SCHEDULE											
DOOR NUMBER	ROOM NAME	DOOR SIZE	HARDWARE	DOOR MATERIAL	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FIRE RATING	NOTES
W01	VCS STORAGE	3'-0" x 7'-0"	HW-1 - SEE NOTES	HM	A	P-7	1	HM	P-6		EXIST OPENING - SIMPLEX LOCK; REUSE DOORFRAME & BALANCE EXIST HW
W01A	VCS STORAGE	3'-0" x 7'-0"	HW-1A - SEE NOTES	HM	A	P-7	1	HM	P-6		EXIST OPENING - REPL. KNOB W/ LEVER; NEW CYL LATCH/DEADLOCK; REUSE DOORFRAME & BALANCE EXIST HW
W02	RECEIVING	PR 4'-0" x 7'-0"	HW-1B - SEE NOTES	HM	B	P-7	2	HM	P-6		EXIST OPENING - LOADING DOCK
W02A	RECEIVING	PR 4'-0" x 8'-0"	HW-1C - SEE NOTES	HM	B	P-7	2	HM	P-6		EXIST OPENING - LOADING DOCK
W02B	RECEIVING	PR 3'-0" x 7'-0"	HW-1D	HM	A	P-7	1	HM	P-1		EXIST OPENING - EXIT DEVICE; UPGRADE ALARM & ACCESS CONTROL; REUSE EXIST DOORFRAME & BALANCE EXIST HW
W02C	RECEIVING	7'-6" x 8'-0"	HW 1E - OH DR	HM	D	EXIST	EXIST	HM	-		EXIST SECTIONAL OH DOOR - REPOSITION WALL CONTROLLERS
W02D	RECEIVING	7'-6" x 8'-0"	HW 1E - OH DR	HM	D	EXIST	EXIST	HM	-		EXIST SECTIONAL OH DOOR - REPOSITION WALL CONTROLLERS
W02E	RECEIVING	7'-6" x 8'-0"	HW 1E - OH DR	HM	D	EXIST	EXIST	HM	-		EXIST SECTIONAL OH DOOR - REPOSITION WALL CONTROLLERS
W03A	DRUG STORAGE	PR 3'-0" x 7'-0"	DEMO - SEE NOTES	HM	-	-	-	HM	-		EXIST OPENING TO DEMO - SALVAGE EXIST ACCESS CONTROL + ALARM
W03A1	DRUG STORAGE	PR 3'-0" x 8'-0"	HW-SH-8	HM	B	P-7	4	HM	P-6		NEW OPENING - ACCESS CONTROL + ALARM
W03A2	DRUG STORAGE	4'-0" x 7'-0"	HW-1F - SEE NOTES	HM	-	-	-	HM	-		EXIST OPENING - WIRE CAGE W/ DEADLOCK - UPGRADE ACCESS CONTROL + ALARM - REUSE EXIST DOORFRAME & BALANCE OF HW
W03A2	DRUG STORAGE	3'-0" x 7'-0"	DEMO - SEE NOTES	HM	-	-	-	HM	-		EXIST EXTERIOR OPENING TO DEMO - INFILL W/ 12" SPLIT-FACE CMU
W03B	BULK STORAGE	PR 3'-0" x 7'-0"	HW-E9	HM	B	P-12	2	HM	P-12		EXIST EXTERIOR OPENING - EXIT DEVICE; ALARM; UPGRADE ACCESS CONTROL + ALARM; REUSE EXIST DOORS/FRAME & BALANCE EXIST HW
W04	PROSTHETICS STORAGE	PR 3'-0" x 7'-0"	HW-11	HM	B	P-7	2	HM	P-6		NEW OPENING - DEMO EXIST & INFILL W/ 6" CMU
W04A	STAFF LOUNGE	3'-0" x 7'-0"	HW-SH-4	WD	C1	STN-1	1	HM	P-6		NEW OPENING W/ GLAZING - EXIST 6" CMU
W04B	PROSTHETICS STORAGE	PR 3'-0" x 7'-0"	HW-11	HM	B	PNT-1	2	HM	P-6		NEW OPENING - EXIST 6" CMU
W05	STERILE CONSUMABLES	3'-0" x 7'-0"	DEMO - SEE NOTES	HM	-	-	-	HM	-		EXIST OPENING TO DEMO - INFILL W/ LT GAL. MTL FRAMING-GWB
W05	STERILE CONSUMABLES	PR 3'-0" x 7'-0"	HW-11	HM	B	P-7	2	HM	P-6		NEW OPENING - 6" CMU - PREV W06A
W05A	EQUIP PREP-STAGING	PR 3'-0" x 7'-0"	DEMO - SEE NOTES	HM	-	-	-	HM	-		EXIST OPENING TO DEMO - INFILL W/ 6" CMU
W05A	LUM DELIVERY	PR 3'-0" x 7'-0"	HW-11	HM	B	P-7	2	HM	P-6		NEW OPENING - EXIST 6" CMU - PREV W05A1
W05B	OIT CLOSET	4'-0" x 7'-0"	HW 1G	HM	A	STN-1	1	HM	P-6		EXIST OPENING - UPGRADE ACCESS CONTROL; REUSE EXIST DOORFRAME & BALANCE EXIST HW
W06	BREAKOUT-INSP	3'-0" x 7'-0"	DEMO - SEE NOTES	HM	-	-	-	HM	-		EXIST OPENING TO DEMO - NEW HM DBL DR/FRAME
W06	BREAKOUT-INSP	PR 3'-0" x 7'-0"	SH-9A	HM	B	P-7	2	HM	P-6		NEW OPENING - ACCESS CONTROL
W08	STAFF TOILET	3'-0" x 7'-0"	HW-2	WD	C	STN-1	1	HM	P-6		NEW OPENING - 6" CMU; DEMO EXIST
W09	SUPERVISOR OFFICE	3'-0" x 7'-0"	HW-3E	WD	C1	STN-1	1	HM	P-6		NEW OPENING W/ GLAZING - 6" CMU; DEMO EXIST
W10	MECHANICAL	4'-0" x 7'-0"	HW-1H - SEE NOTES	HM	-	-	-	HM	-		EXIST OPENING - CORR CBC2 - NO WORK
WC01	CORRIDOR	PR 3'-0" x 7'-0"	HW-1J - SEE NOTES	HM	B	P-7	2	HM	P-6	90	EXIST 90M OPENING W/ 10"x10" GL LITES - AUTO DOOR OPERATOR - UPGRADE ACCESS CONTROL; REUSE EXIST DOORFRAME & BALANCE EXIST HW
WE01A	MATL LIFT EQPT.	3'-0" x 7'-0"	HW-1K - SEE NOTES							SEE NOTES	NEW OPENING - WIRE CAGE W/ DEADLOCK - PAINT TO MATCH MATL LIFT ENCLOSURE
WS02	FIRE STAIR	3'-0" x 7'-0"	HW-E4	HM	A	P-12	3	HM	P-12		NEW EXTERIOR OPENING - INSUL HM DOOR, MTL WALL PNL-CMU, EXIT DEVICE; ALARM



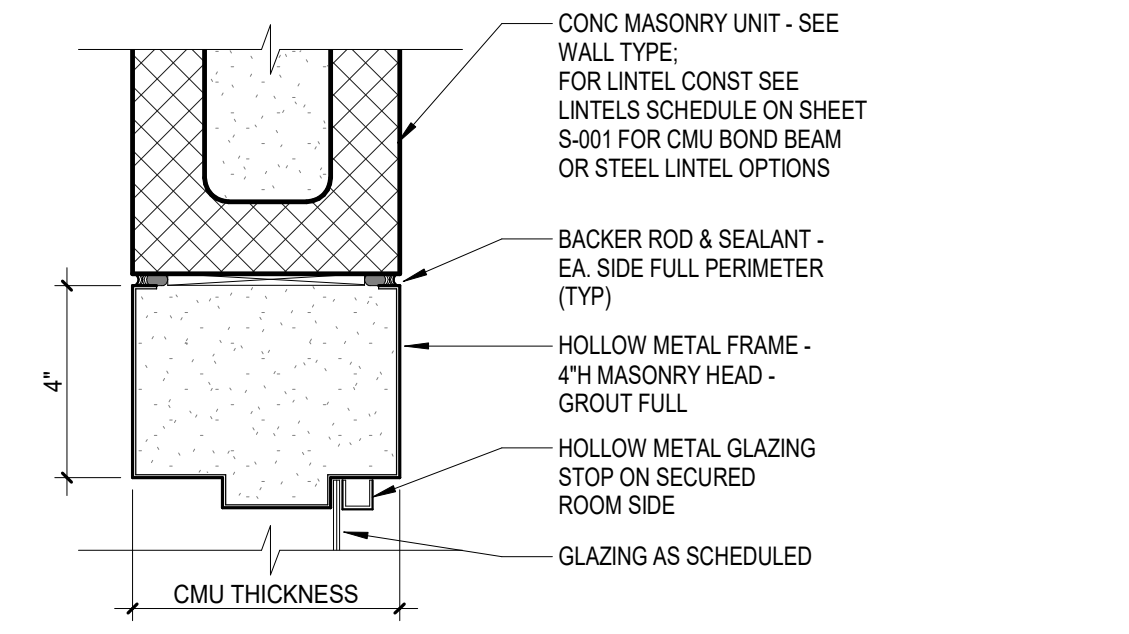
A4 DOOR AND FRAME TYPES
1/4" = 1'-0"



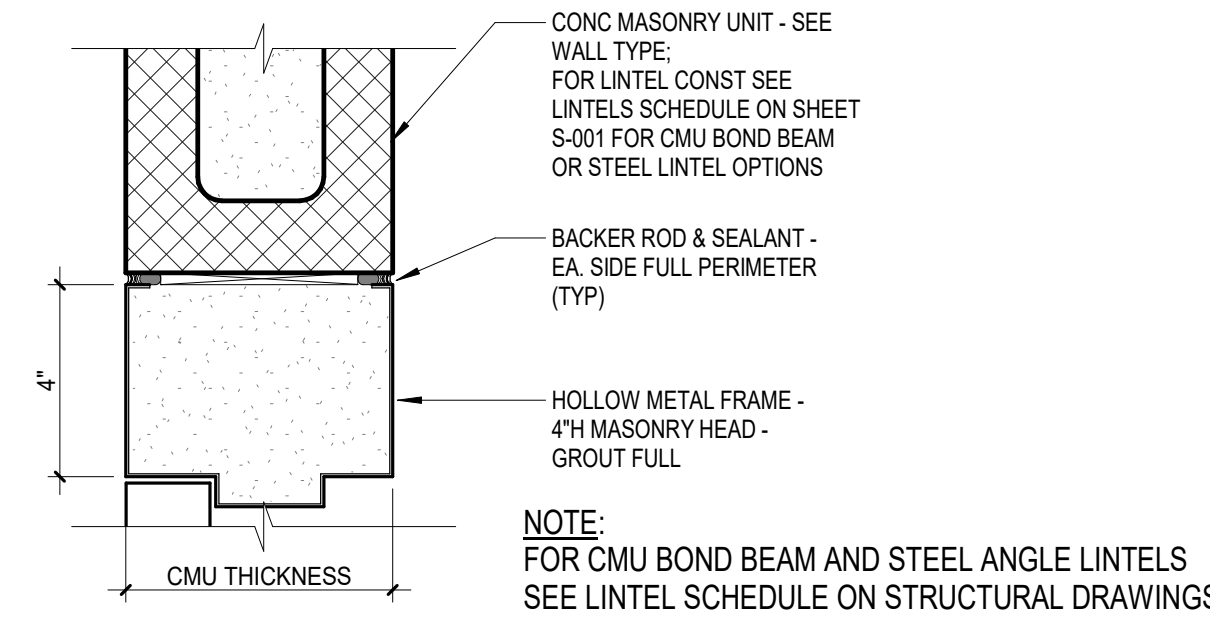
A7 WINDOW TYPES
1/4" = 1'-0"



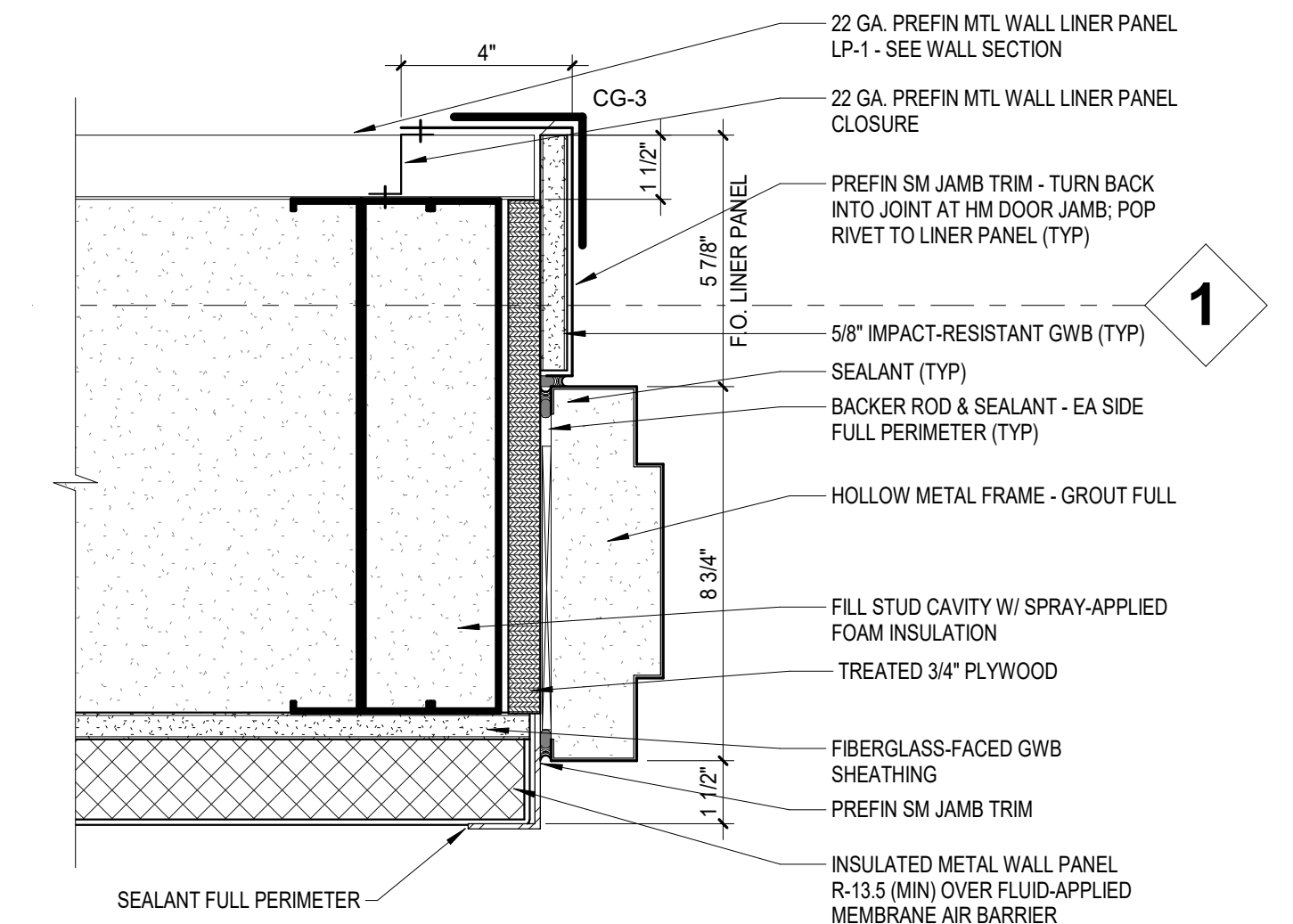
C9 DOOR WS02 HEAD DETAIL
3" = 1'-0"



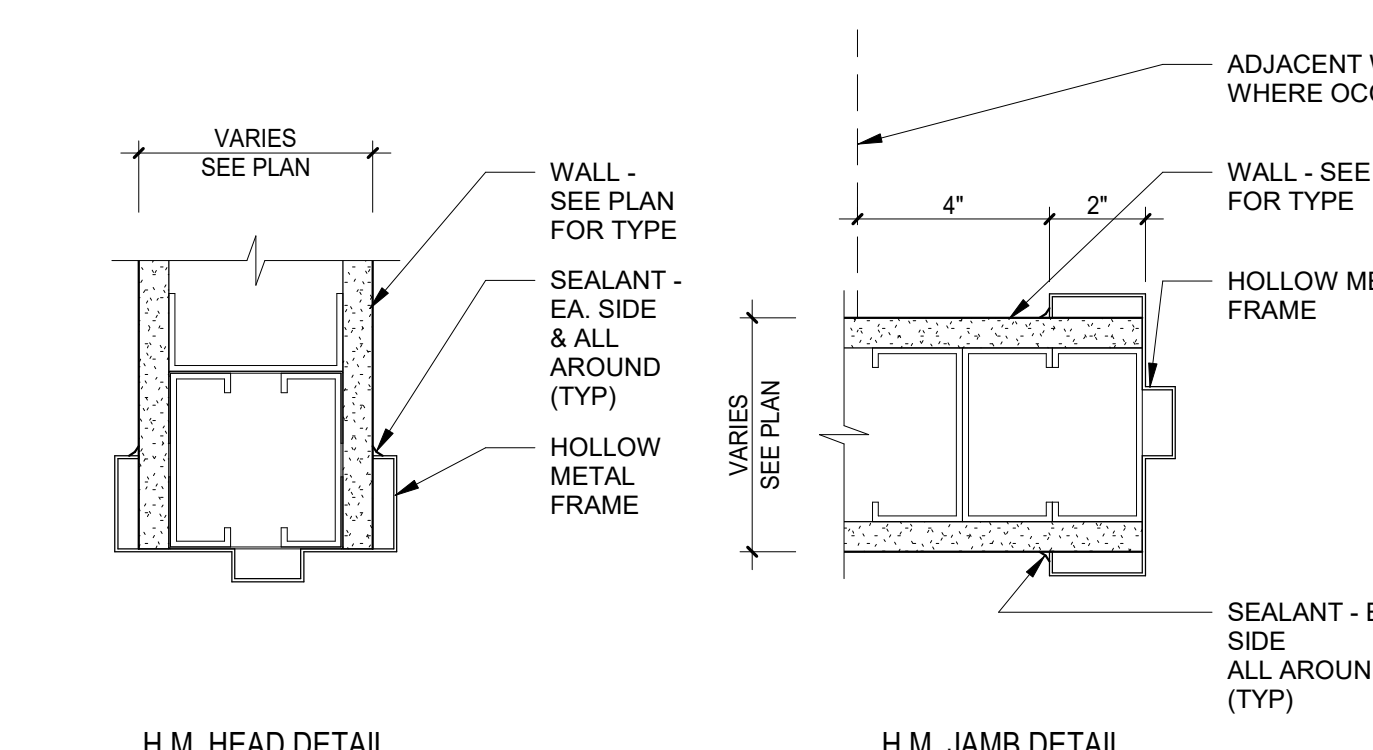
C5 H.M. HEAD DETAIL - CMU (BORROW LITE)
3" = 1'-0"



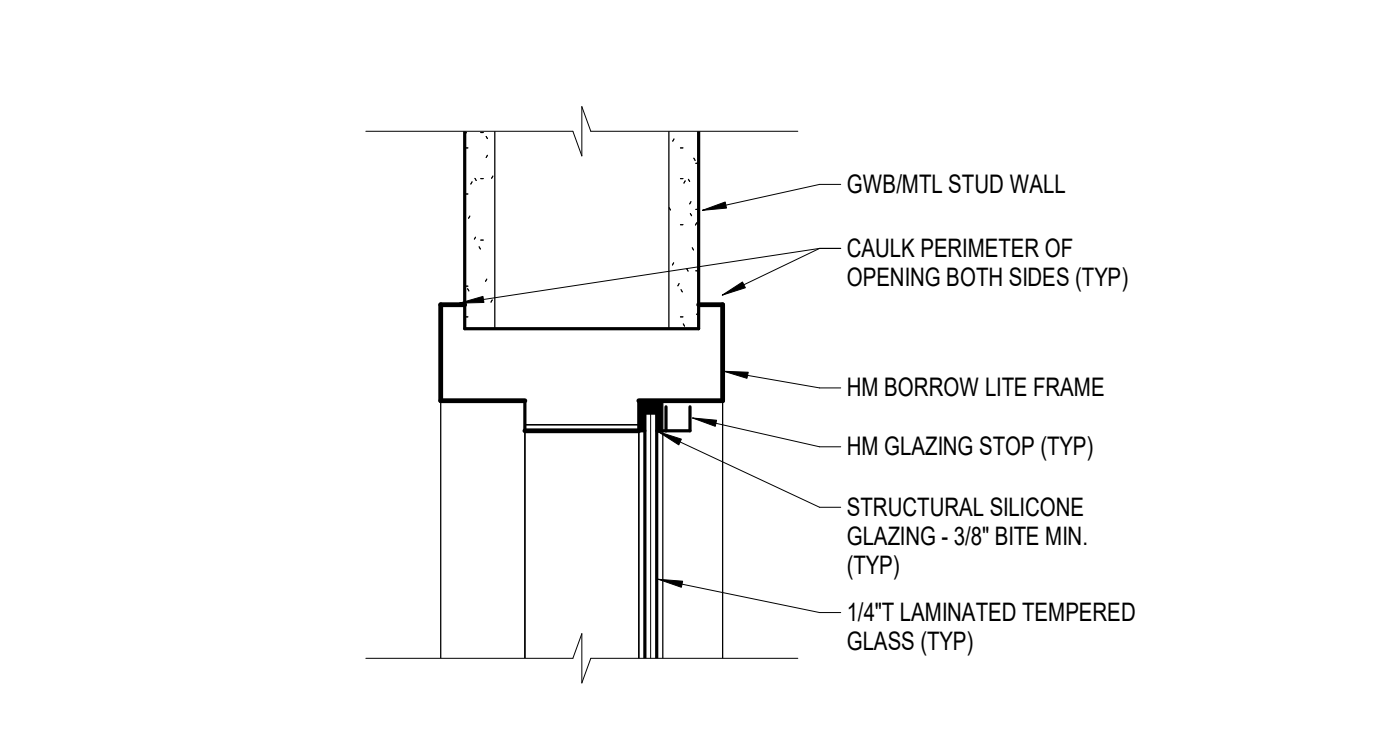
C7 H.M. HEAD DETAIL - CMU (DOOR)
3" = 1'-0"



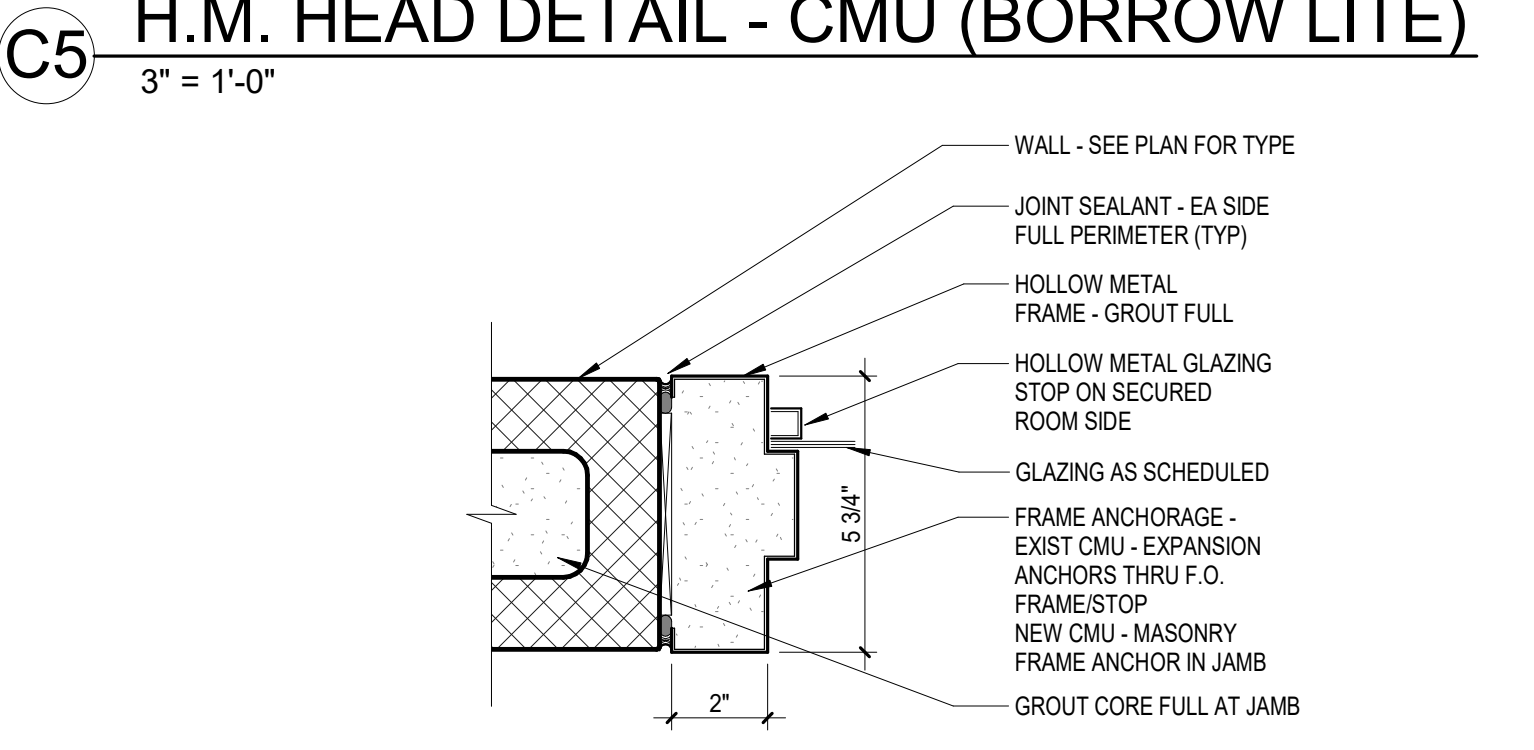
C9 DOOR WS02 HEAD DETAIL
3" = 1'-0"



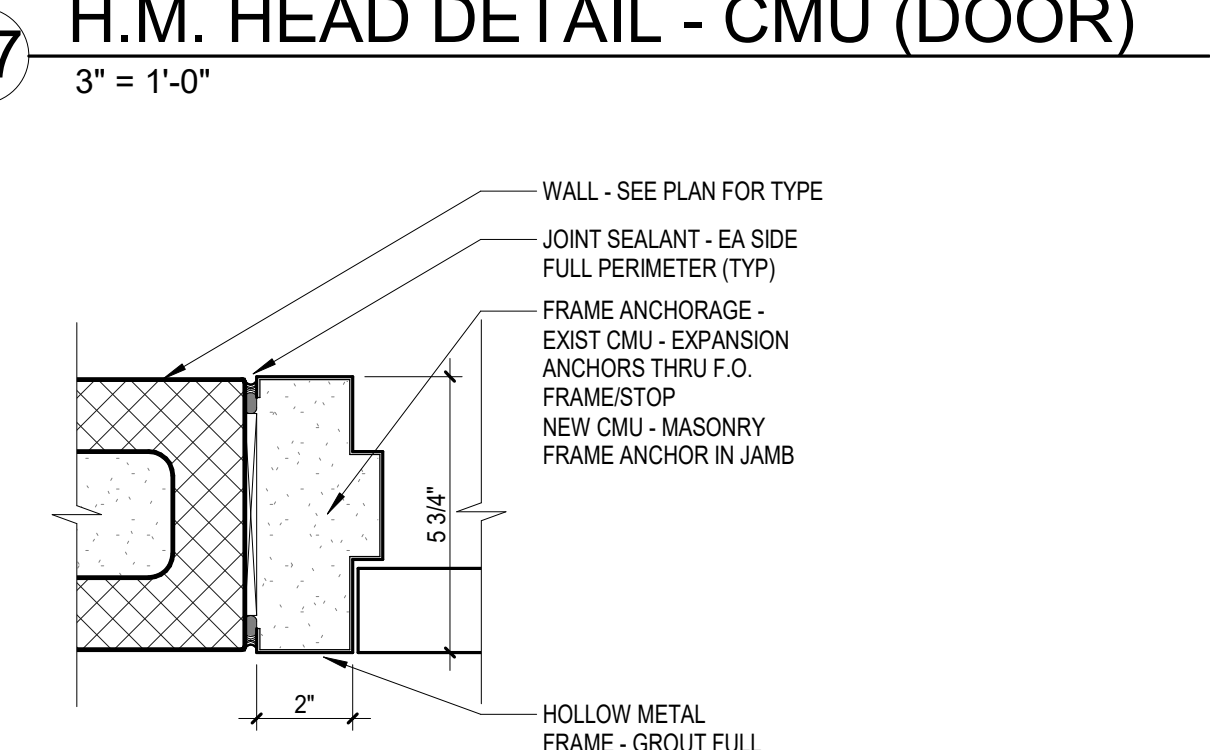
D1 DOOR DTLS - GWB/FRAMED WALLS
3" = 1'-0"



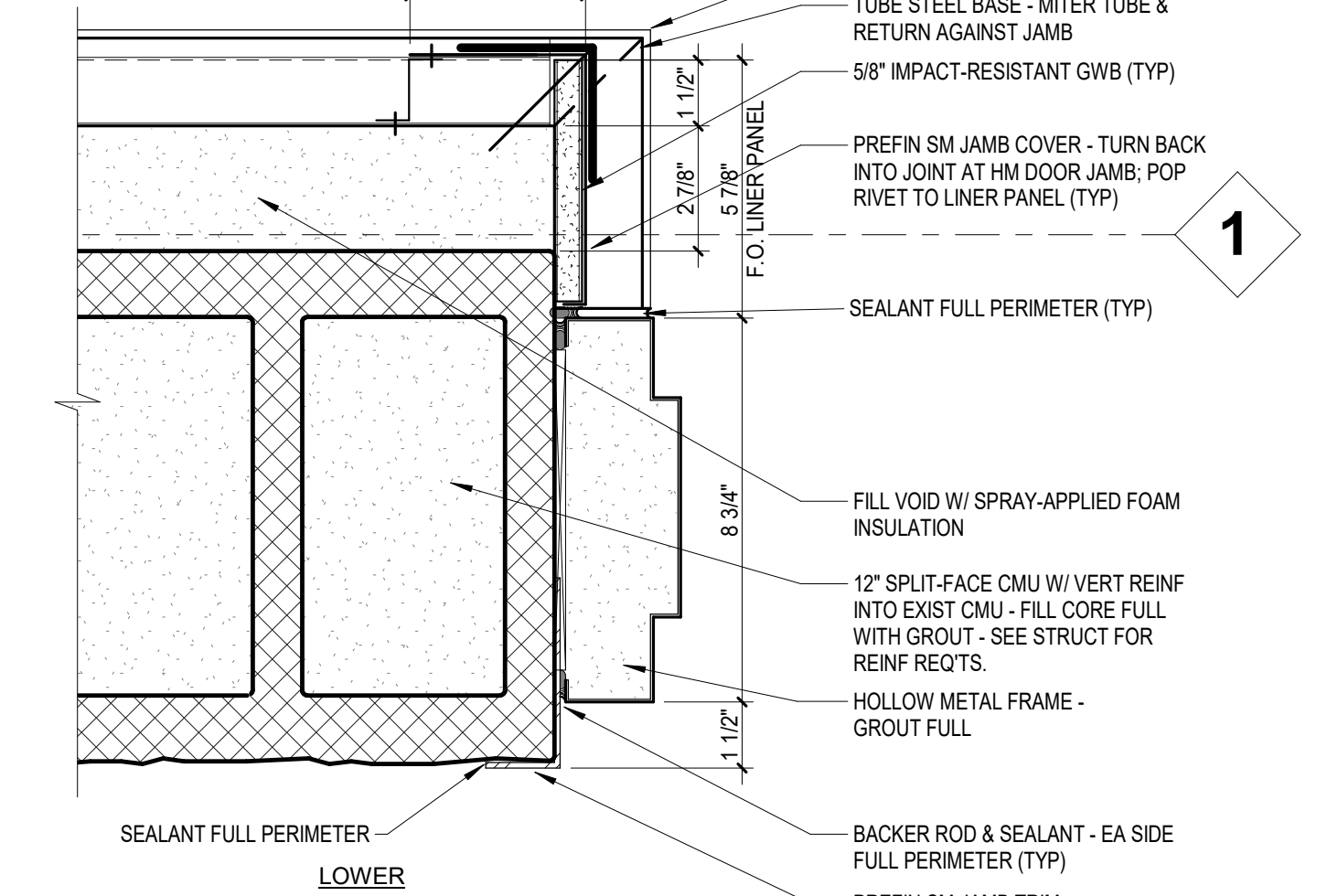
E3 BORROW LITE HEAD-GWB (JAMB SIM)
3" = 1'-0"



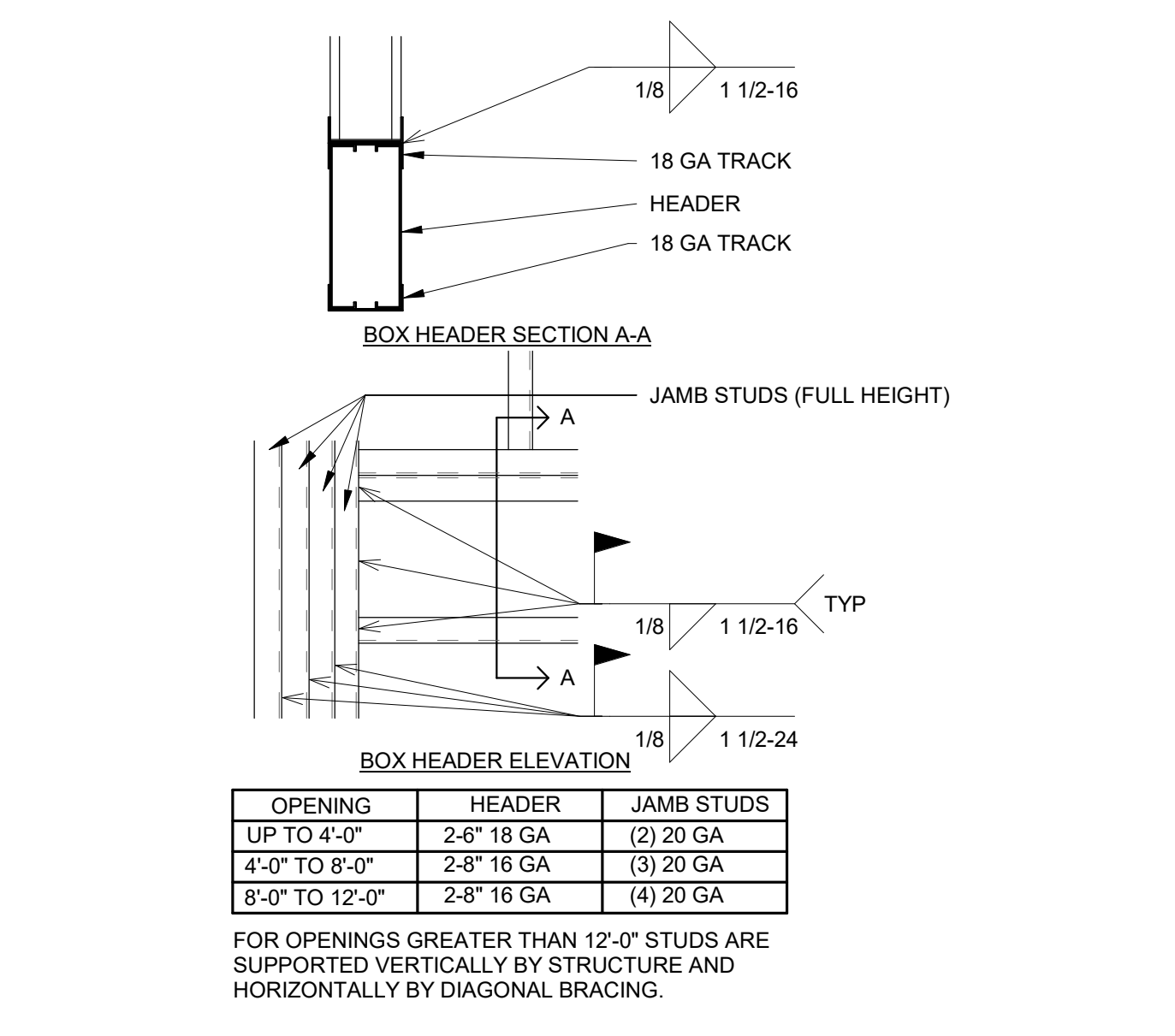
E5 H.M. JAMB DETAIL - CMU (BORROW LITE)
3" = 1'-0"



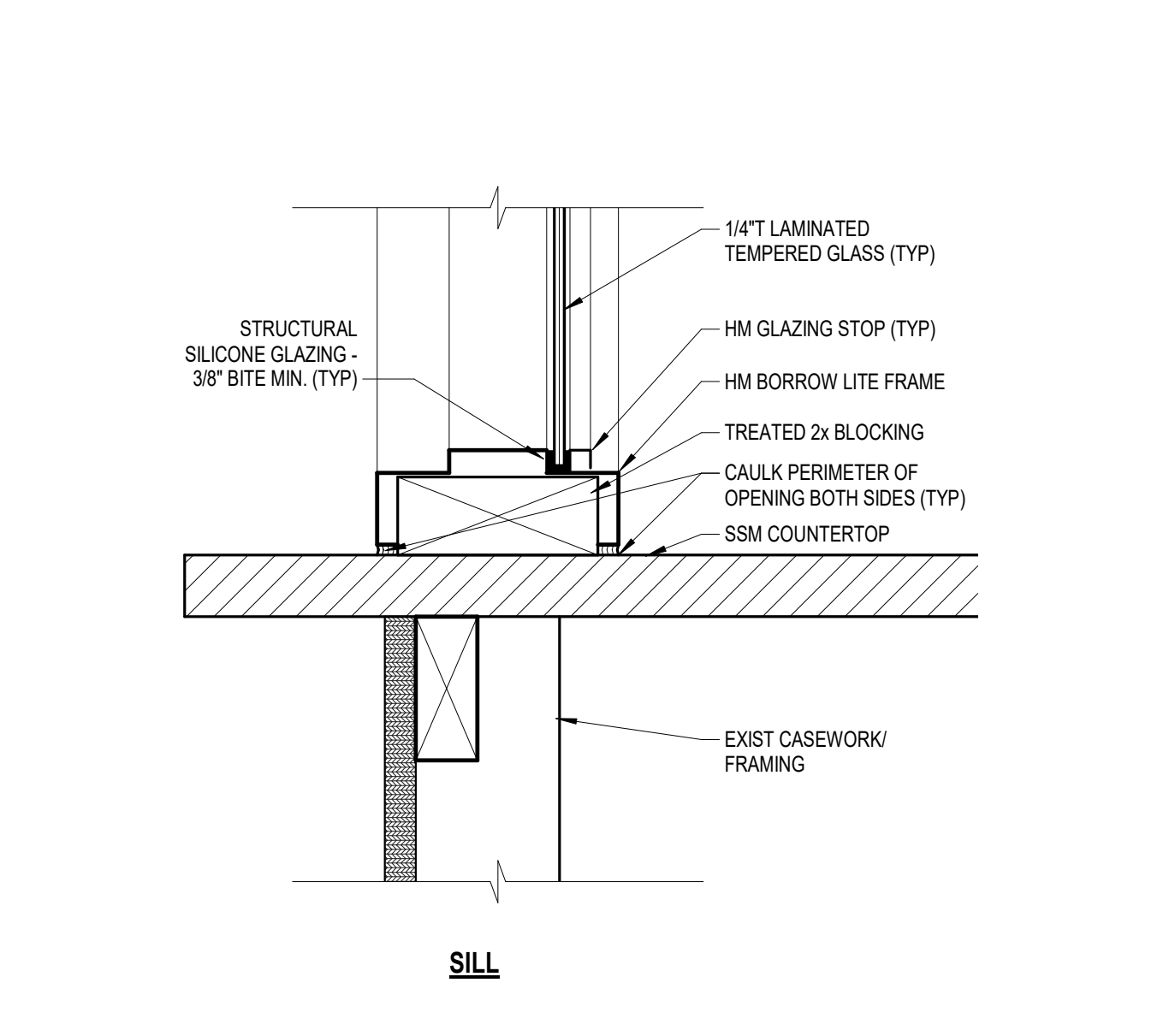
E7 H.M. JAMB DETAIL - CMU (DOOR)
3" = 1'-0"



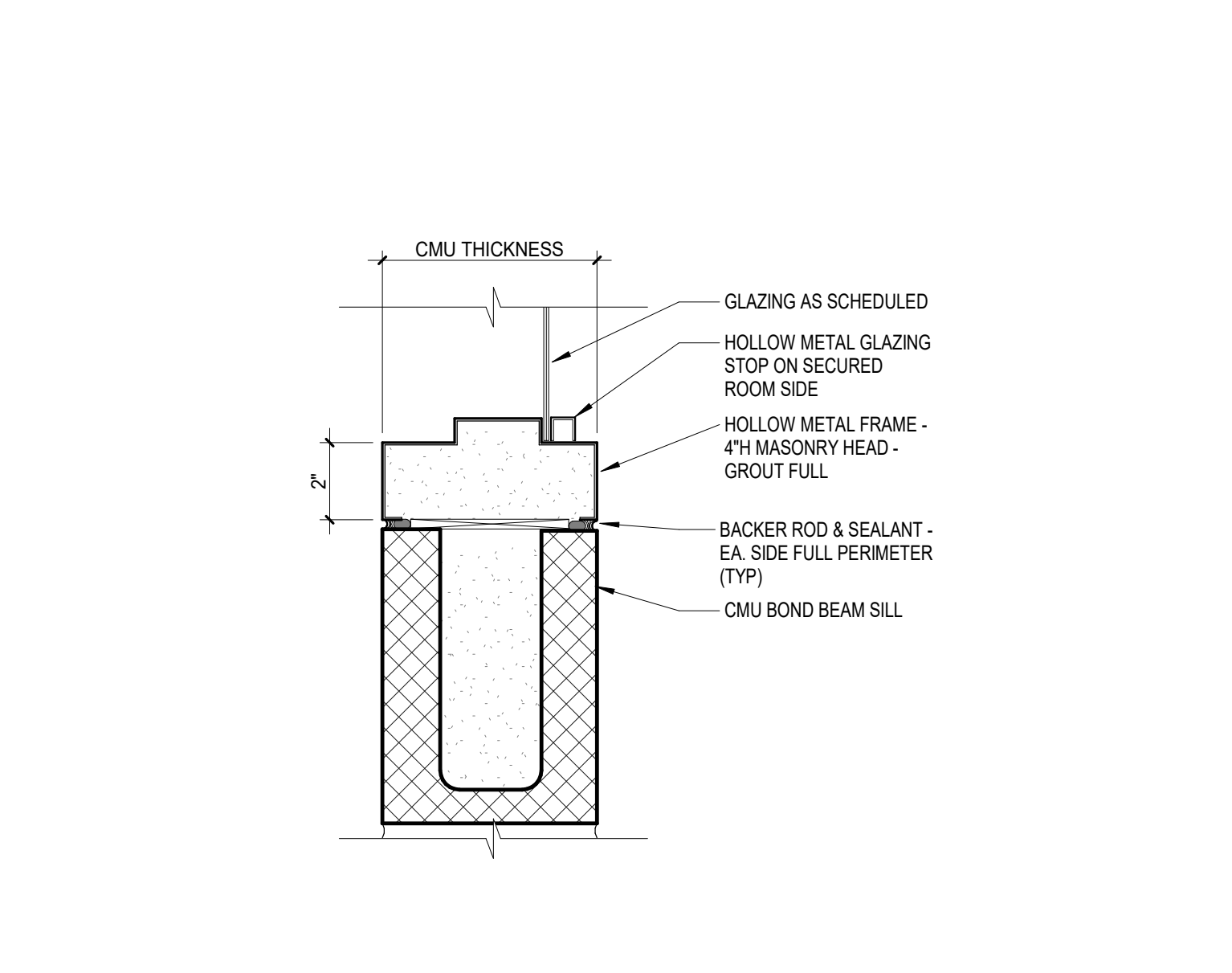
E9 DOOR WS02 JAMB DETAILS
3" = 1'-0"



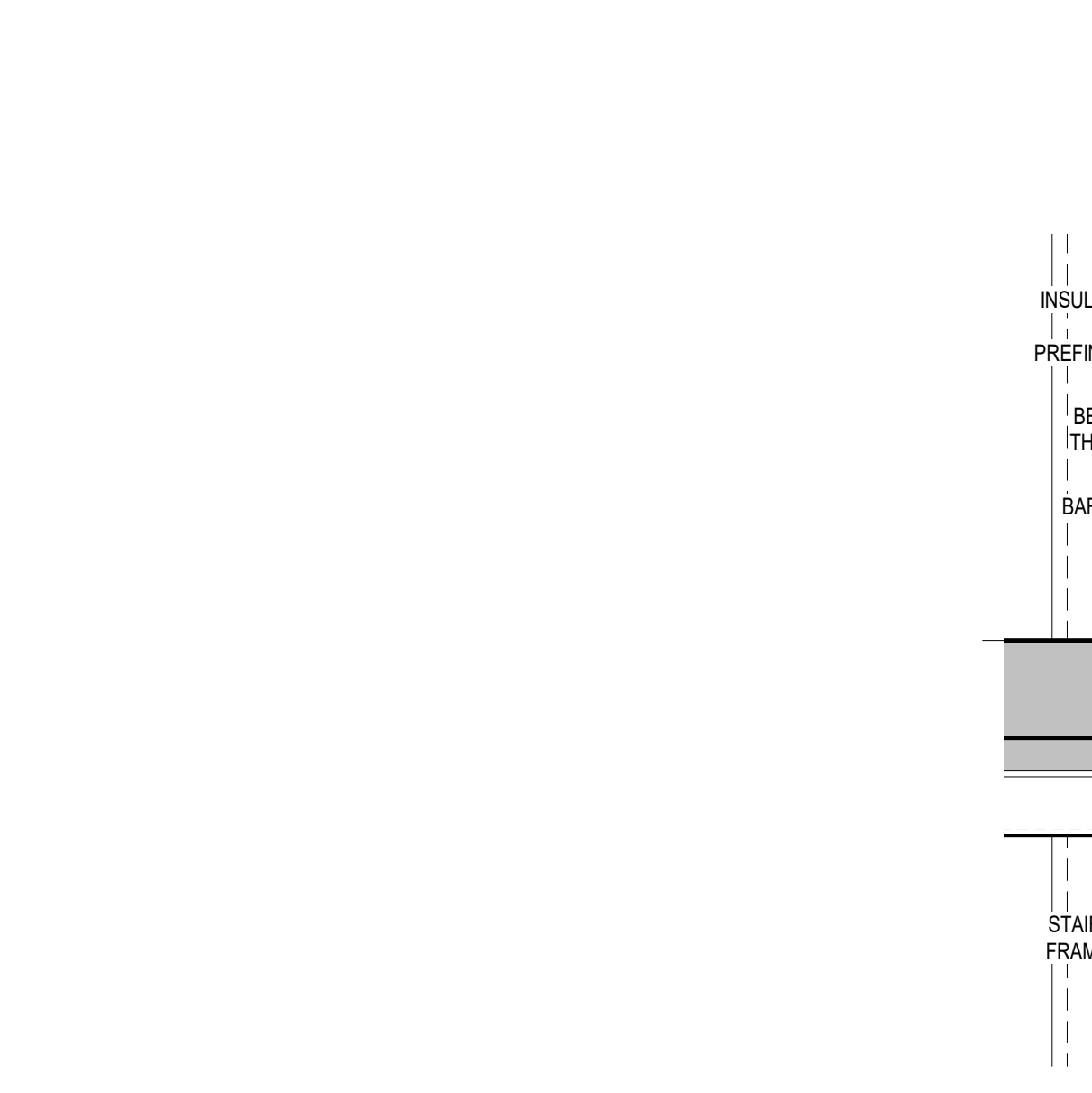
F1 HEADER SECTION SCHEDULE
1 1/2" = 1'-0"



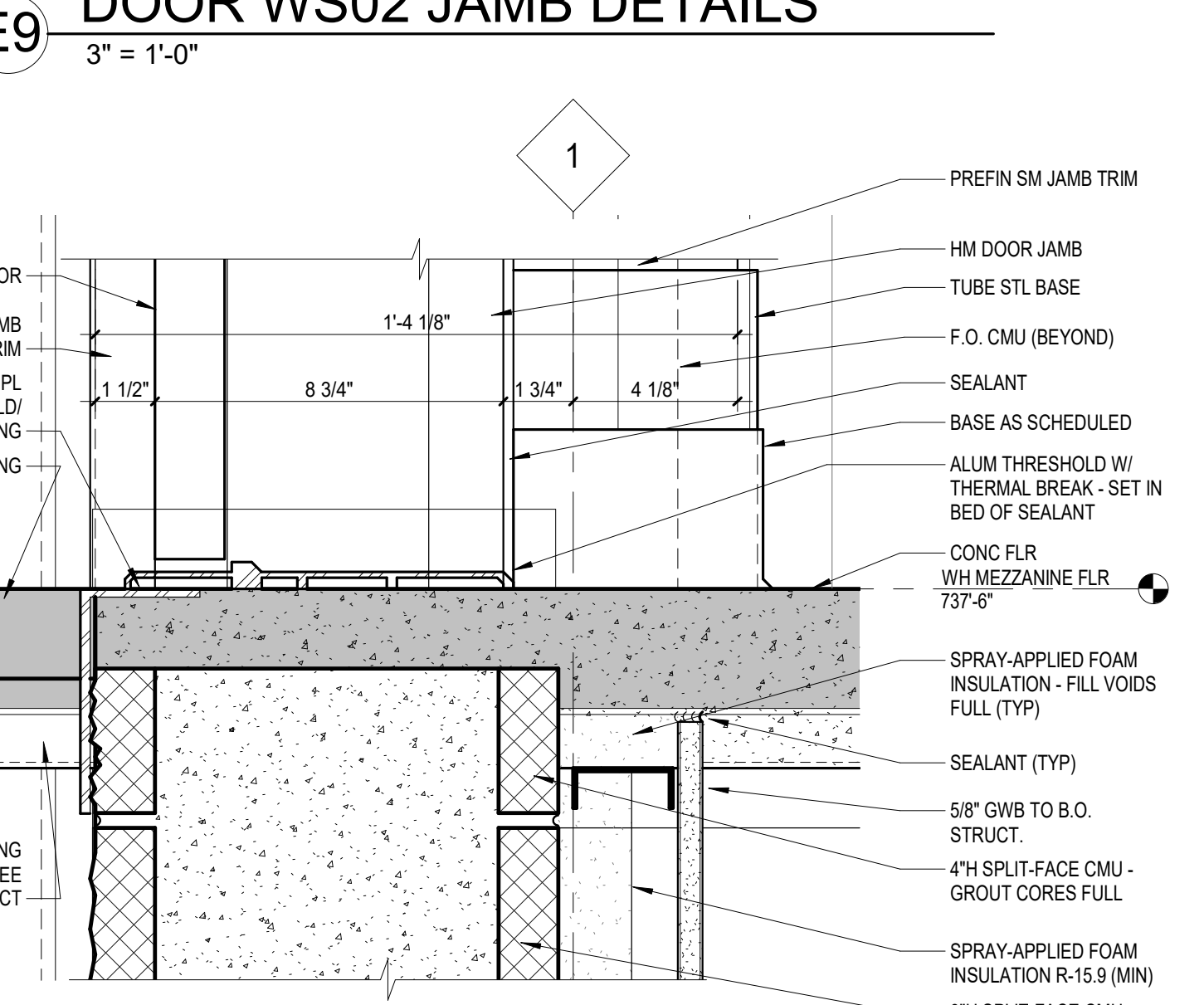
F3 BORROW LITE SILL - GWB
3" = 1'-0"



F5 H.M. SILL DETAIL - CMU (BORROW LITE)
3" = 1'-0"



F7 H.M. SILL DETAIL - CMU (DOOR)
3" = 1'-0"

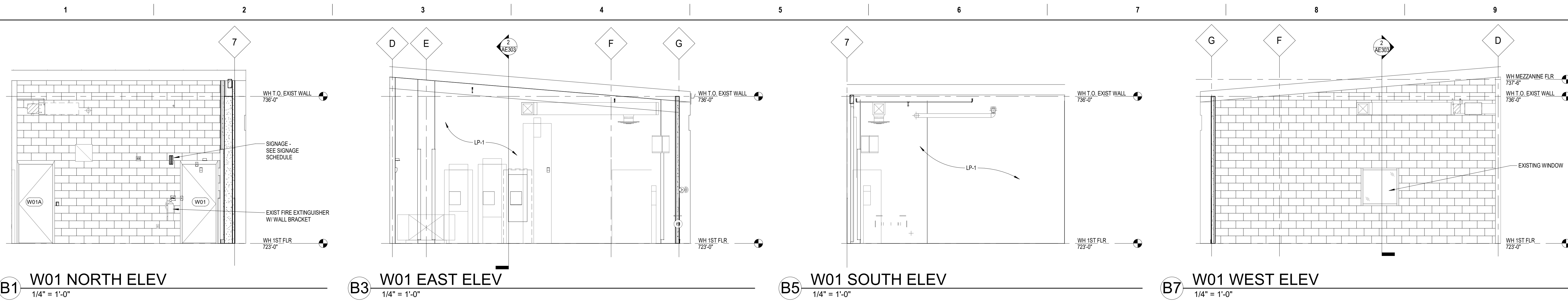


F9 DOOR WS02 SILL DETAIL
3" = 1'-0"

BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elkhorst, Nebraska 68022 Phone: 402.291.6941 Fax: 402.291.9193	IMEG IMEG Corp. 15 Summit Drive, Suite 104 St. Louis, MO 63143 Phone: (314) 954-2534	STAMP ARCHITECT RICHARD JOSEPH O'NEKIN A-6125 STATE OF MISSOURI 24 MAR 2021	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title DOOR & WINDOW SCHEDULE & DETAILS	Phase BID SET	Project Title RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS	Project Number 589A4-20-158
				Approved:	Fully Sprinklered	Location HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201	Building Number 14
				Issue Date 03/24/2021	Checked AHT	Drawn TJF	Drawing Number AE701
						Dwg. # 39 of 94	

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B1 W01 NORTH ELEV
1/4" = 1'-0"

B3 W01 EAST ELEV
1/4" = 1'-0"

B5 W01 SOUTH ELEV
1/4" = 1'-0"

B7 W01 WEST ELEV
1/4" = 1'-0"

INTERIOR ELEVATIONS GENERAL NOTES:

1. SEE SHEET AE901 FOR INTERIOR ELEVATION GENERAL NOTES.

INTERIOR ELEV. SHEET NOTES:

1. SEE SHEETS AF101 AND AF102 FOR SIGNAGE LOCATIONS. SEE SHEET AF502 FOR SIGNAGE SCHEDULE AND MOUNTING HEIGHTS.

PHASING NOTES:

PHASING TO BE DEVELOPED TO MINIMIZE DISRUPTION OF OWNER-RELATED ACTIVITIES WITHIN THE PROJECT AREA. REFER TO PHASING PLANS PH101 THRU PH103 FOR ADDITIONAL INFORMATION.

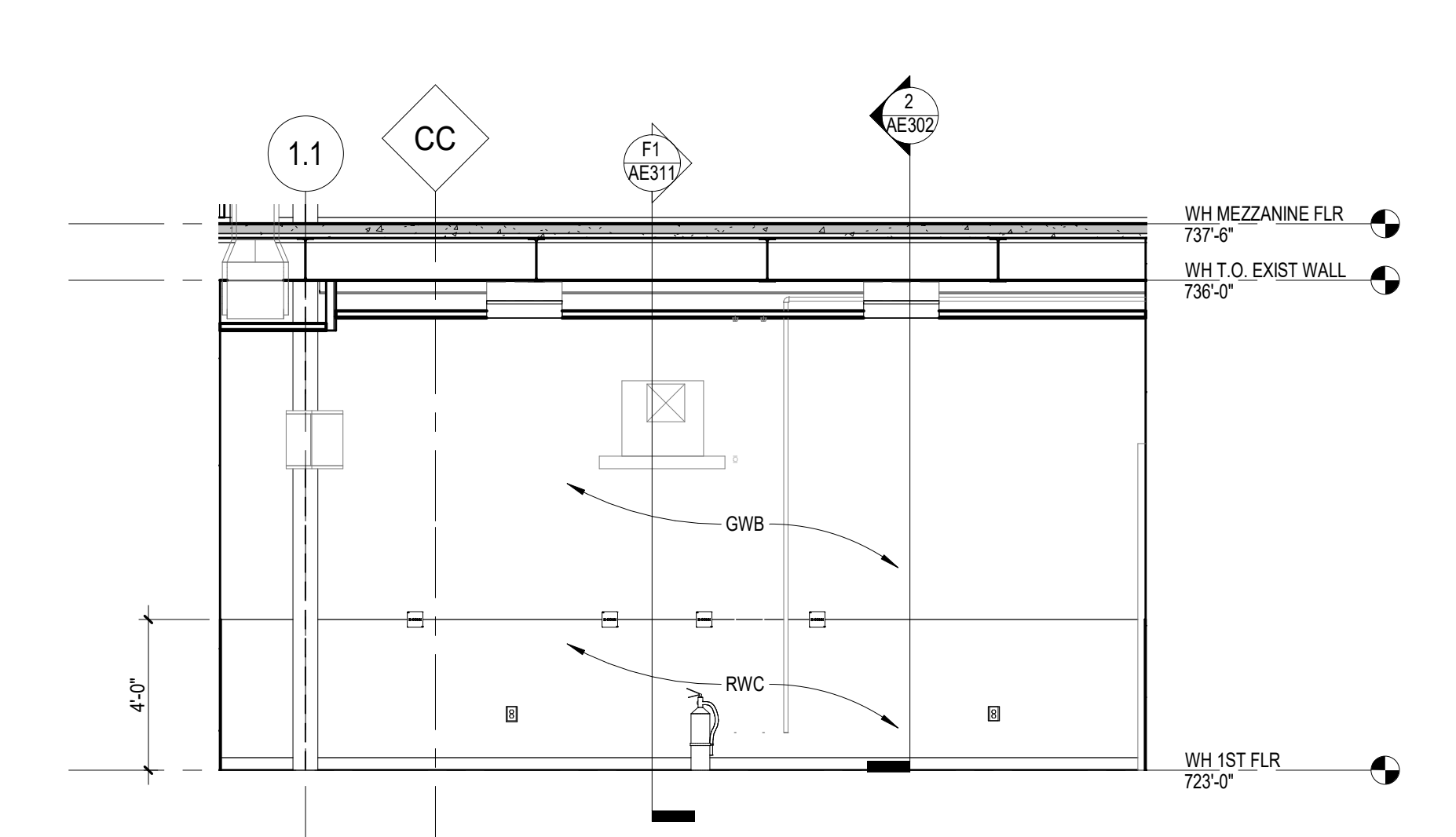
BRIEF PHASING DESCRIPTION:

- A. PHASE 1 - DEMOLITION AND INSTALLATION OF WEST WAREHOUSE NEW ROOF SUPERSTRUCTURE. MODIFICATION OF EXISTING EAST WAREHOUSE ROOF AND BUILDING STRUCTURE. LIMITED DEMOLITION EAST WAREHOUSE OF INTERIOR ROOMS W07-W08-W09. CONSTRUCT HVAC FROM BLDG. 1 TO WAREHOUSE.
- B. PHASE 2 - DEMOLITION OF WEST WAREHOUSE EXISTING ROOF FRAMING. CONSTRUCTION OF WEST WAREHOUSE UPPER EXTERIOR WALL ENCLOSURE. LIMITED DEMOLITION OF WEST WAREHOUSE INTERIOR ROOM W03A.
- C. PHASE 3 - CONSTRUCTION OF NEW MEZZANINE FLOOR AND DRUG STORAGE ROOM W03A. CONSTRUCTION OF NEW OFFICE/TOILET W08-W09. NEW EXTERIOR WALL INSULATION AND FINISHES.

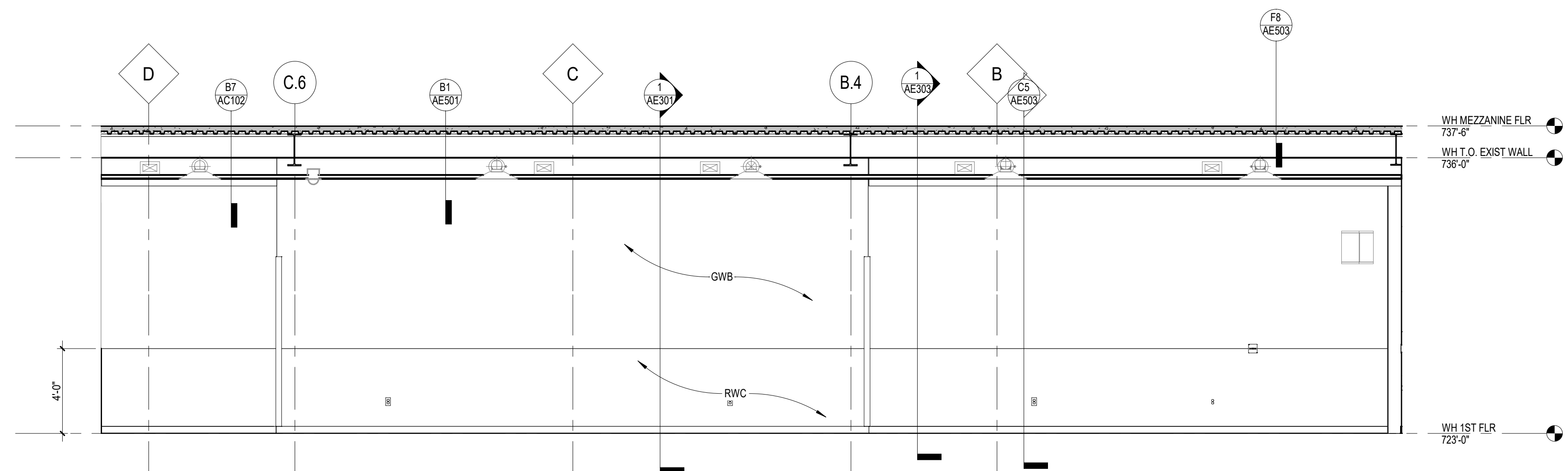
BID ITEMS & DEDUCT ALTERNATES:

REFER TO SECTION 01 00 00 FOR STATEMENT OF BID ITEMS

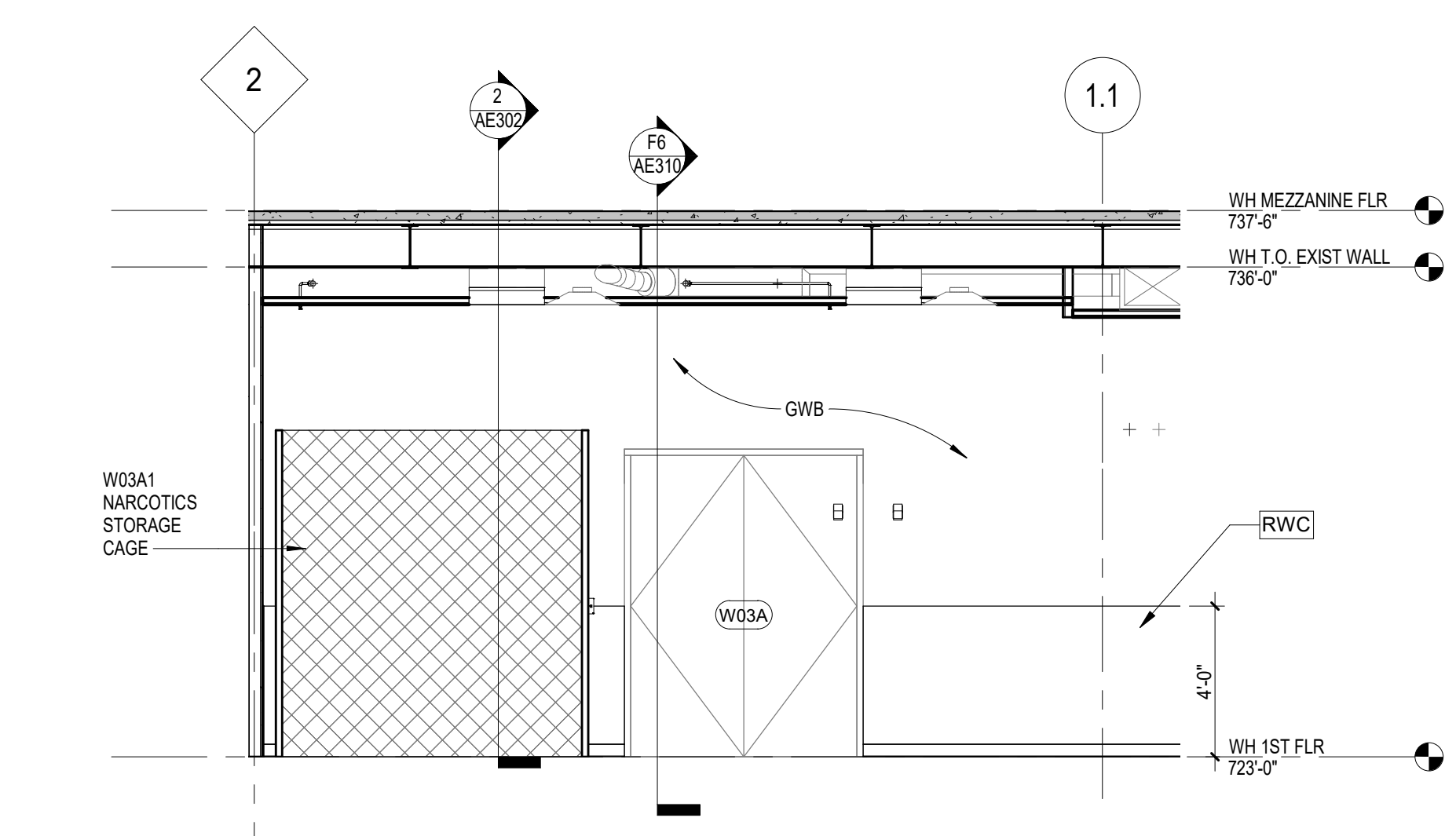
- A. BID ITEM #1: GENERAL CONSTRUCTION: BASE BID: Renovate Warehouse for Pandemic Preparedness. Includes all scope communicated in the drawings and specifications.
 1. Work includes general construction, alterations, walks, grading, drainage, necessary removal of existing structures and construction of certain other items.
- B. BID ITEM #2: Renovate Warehouse for Pandemic Preparedness. Includes all scope described in Bid Item #1 - excluding Bid Deduct #1 described below:
 1. Work associated with new Material UR WEST.
 2. Work associated with construction and finishes for new Rooms W08 and W09 (Demolition of existing Rooms W07, W08 and W09, including plumbing, fixtures and finishes in Room W08 will be retained in Base Bid).
 3. Work associated with installation of new ceilings and finishes in Rooms W04, W05 and W06.
 4. Demolition and renovation of work counters at Rooms W10A and W10C.



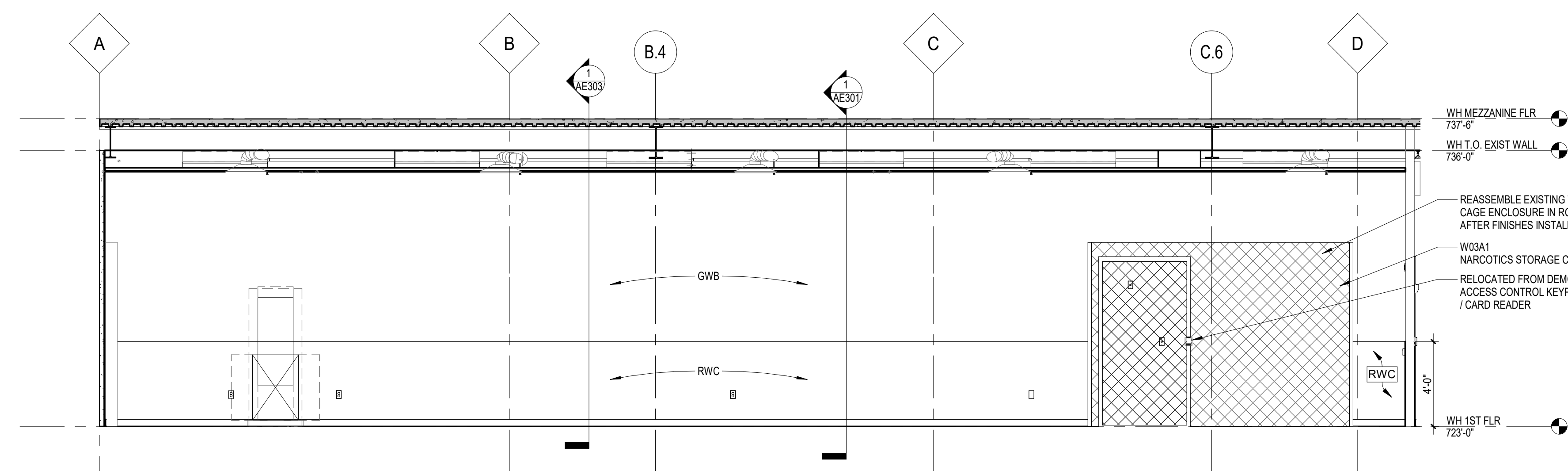
D1 W03A NORTH ELEV
1/4" = 1'-0"



D3 ROOM W03A WEST ELEV
1/4" = 1'-0"



F1 ROOM W03A SOUTH ELEV
1/4" = 1'-0"



F3 ROOM W03A EAST ELEV
1/4" = 1'-0"

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BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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St. Louis, MO 63143
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incandescence life safety
a fire protection engineering firm

STAMP

ARCHITECT
RICHARD JOSEPH/OKEN
A-6125
STATE OF NEBRASKA
24 MAR 2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
INTERIOR ELEVATIONS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

Checked
AHT

Drawn
TJF

Project Number
589A4-20-158

Building Number
14

Drawing Number
AE902
Dwg. # 41 of 94

INTERIOR ELEVATIONS GENERAL NOTES:

1. SEE SHEET AE01 FOR INTERIOR ELEVATION GENERAL NOTES.

INTERIOR ELEVATIONS SHEET NOTES:

1. SEE SHEETS AF101 AND AF102 FOR SIGNAGE LOCATIONS. SEE SHEET AF502 FOR SIGNAGE SCHEDULE AND MOUNTING HEIGHTS.

PHASING NOTES:

PHASING TO BE DEVELOPED TO MINIMIZE DISRUPTION OF OWNER-RELATED ACTIVITIES WITHIN THE PROJECT AREA. REFER TO PHASING PLANS PH101 THRU PH103 FOR ADDITIONAL INFORMATION.

BRIEF PHASING DESCRIPTION:

- A. PHASE 1 - DEMOLITION AND INSTALLATION OF WEST WAREHOUSE NEW ROOF SUPERSTRUCTURE. MODIFICATION OF EXISTING EAST WAREHOUSE ROOF AND BUILDING STRUCTURE. LIMITED DEMOLITION EAST WAREHOUSE OF INTERIOR ROOMS W07-W08-W09. CONSTRUCT RWAC FROM BLDG. 1 TO WAREHOUSE.
- B. PHASE 2 - DEMOLITION OF WEST WAREHOUSE EXISTING ROOF/FRAMING. CONSTRUCTION OF WEST WAREHOUSE UPPER EXTERIOR WALL ENCLOSURE. LIMITED DEMOLITION OF WEST WAREHOUSE INTERIOR ROOM W03A.
- C. PHASE 3 - CONSTRUCTION OF NEW MEZZANINE FLOOR AND DRUG STORAGE ROOM W03A. CONSTRUCTION OF NEW OFFICETOILET W08-W09. NEW EXTERIOR WALL INSULATION AND FINISHES.

BID ITEMS & DEDUCT ALTERNATES:

REFER TO SECTION 01 00 00 FOR STATEMENT OF BID ITEMS

- A. BID ITEM #1: GENERAL CONSTRUCTION BASE BID: Renovate Warehouse for Pandemic Preparedness. Includes all scope communicated in the drawings and specifications.
 1. Work includes general construction, alterations, walls, grading, drainage, necessary removal of existing structures and construction of certain other items.
- B. BID ITEM #2: Renovate Warehouse for Pandemic Preparedness. Includes all scope described in Bid Item #1 - excluding Bid Deduct #1 described below.
 1. Work associated with new Material Lift WEST.
 2. Work associated with construction and finishes for new Rooms W08 and W09 (Demolition of existing Rooms W07, W08 and W09, including plumbing, fixtures and finishes in Room W08 will be retained in Base Bid).
 3. Work associated with installation of new ceilings and finishes in Rooms W04, W05A and W06.
 4. Demolition and renovation of work counters at Rooms W10A and W10C.

B1 W04 NORTH ELEV
1/4" = 1'-0"

B4 W04 EAST ELEV
1/4" = 1'-0"

B7 W04 SOUTH ELEV
1/4" = 1'-0"

C1 W04 WEST ELEV
1/4" = 1'-0"

C3 W04A NORTH ELEV
1/4" = 1'-0"

C5 W04A EAST ELEV
1/4" = 1'-0"

C6 W04A SOUTH ELEV
1/4" = 1'-0"

C8 W04A WEST ELEV
1/4" = 1'-0"

F1 W05A NORTH ELEV
1/4" = 1'-0"

F3 W05A EAST ELEV
1/4" = 1'-0"

F5 W05A SOUTH ELEV
1/4" = 1'-0"

F7 W05A WEST ELEV
1/4" = 1'-0"

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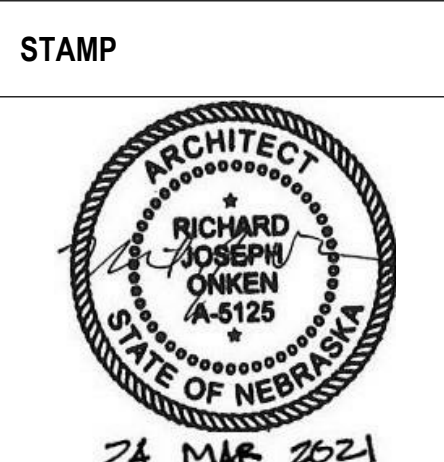
BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Incandescence Life Safety, Inc.
3025 Douglas Court, #400, Denver, CO 80216
Phone: (303) 722-8010

incandescence life safety
a fire protection engineering firm



Office of Construction and Facilities Management

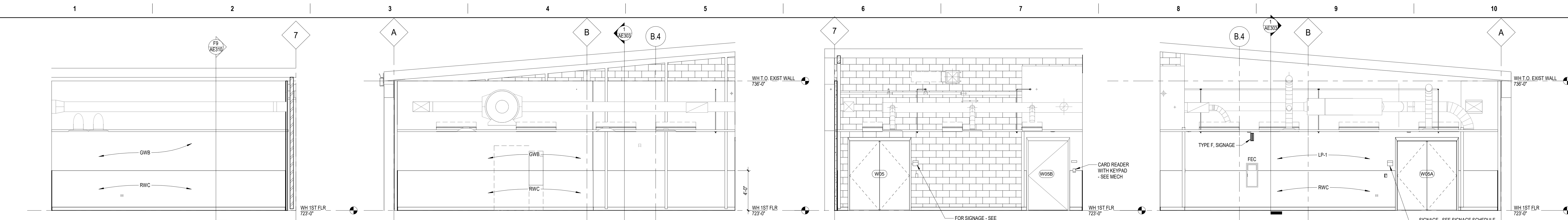
VA U.S. Department of Veterans Affairs

Drawing Title	INTERIOR ELEVATIONS
Approved:	

Phase	BID SET
	FULLY SPRINKLERED

Project Title	RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS
Location	HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201
Issue Date	03/24/2021
Checked	AHT
Drawn	TJF

Project Number	589A4-20-158
Building Number	14
Drawing Number	AE903
	Dwg. # 42 of 94

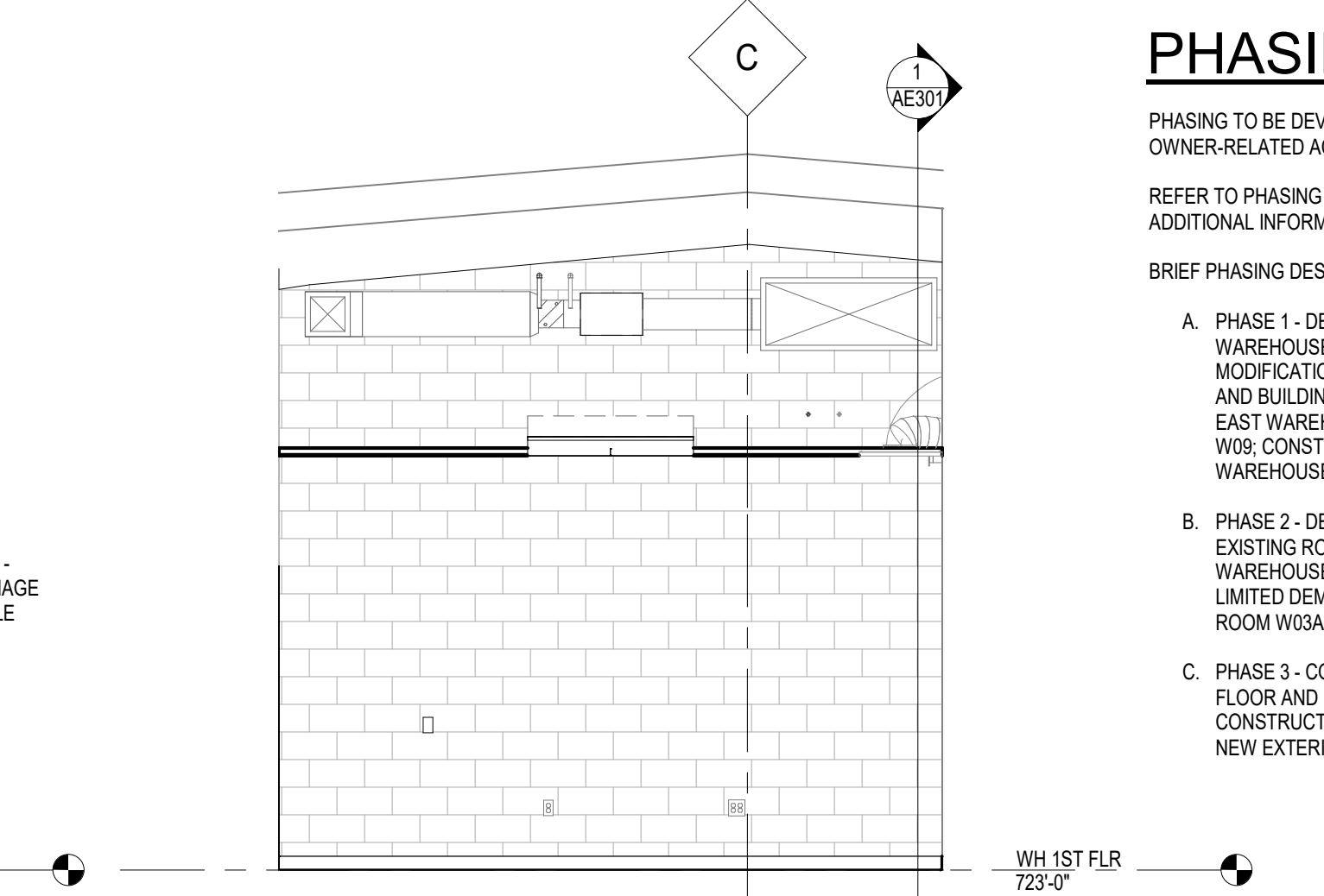
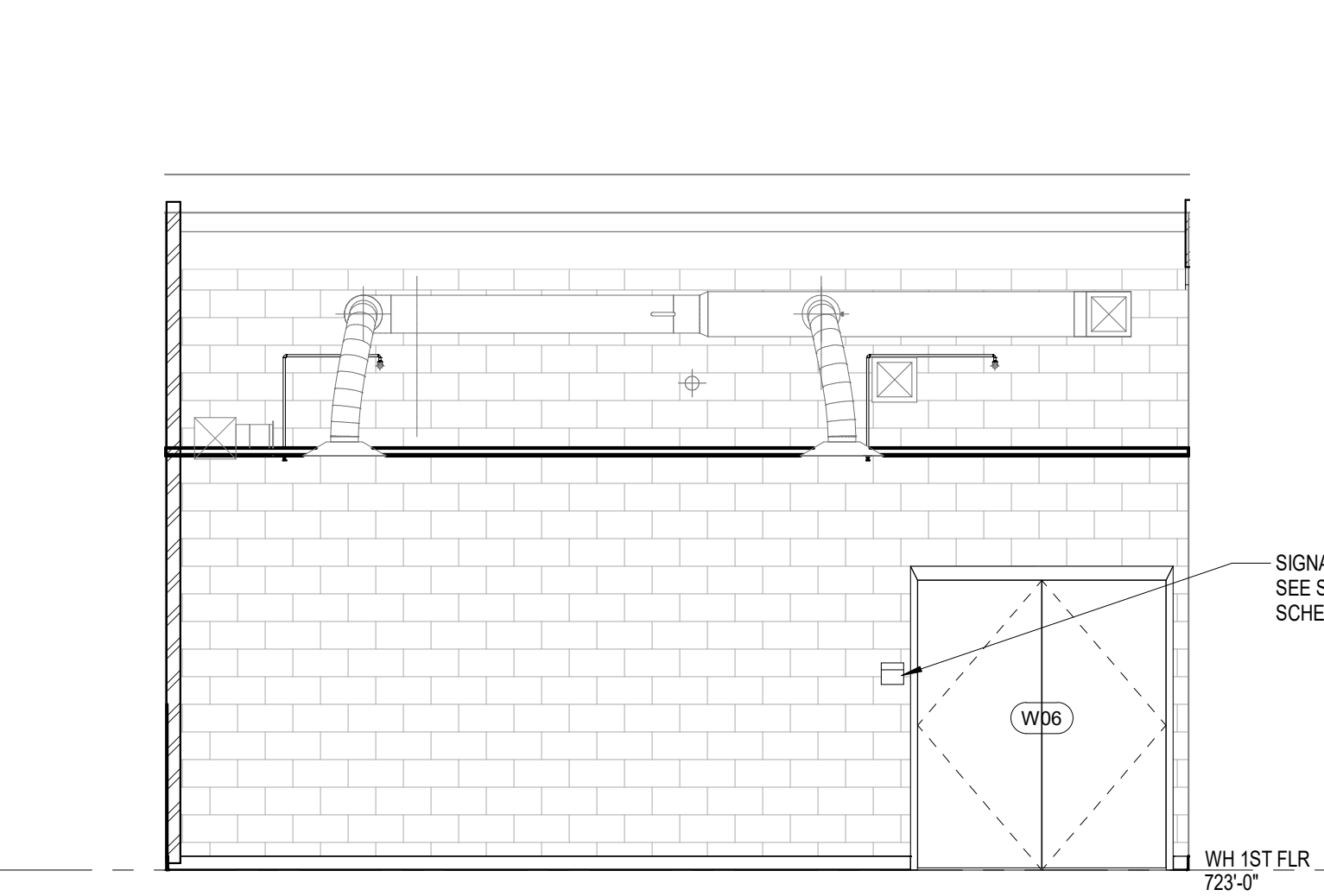
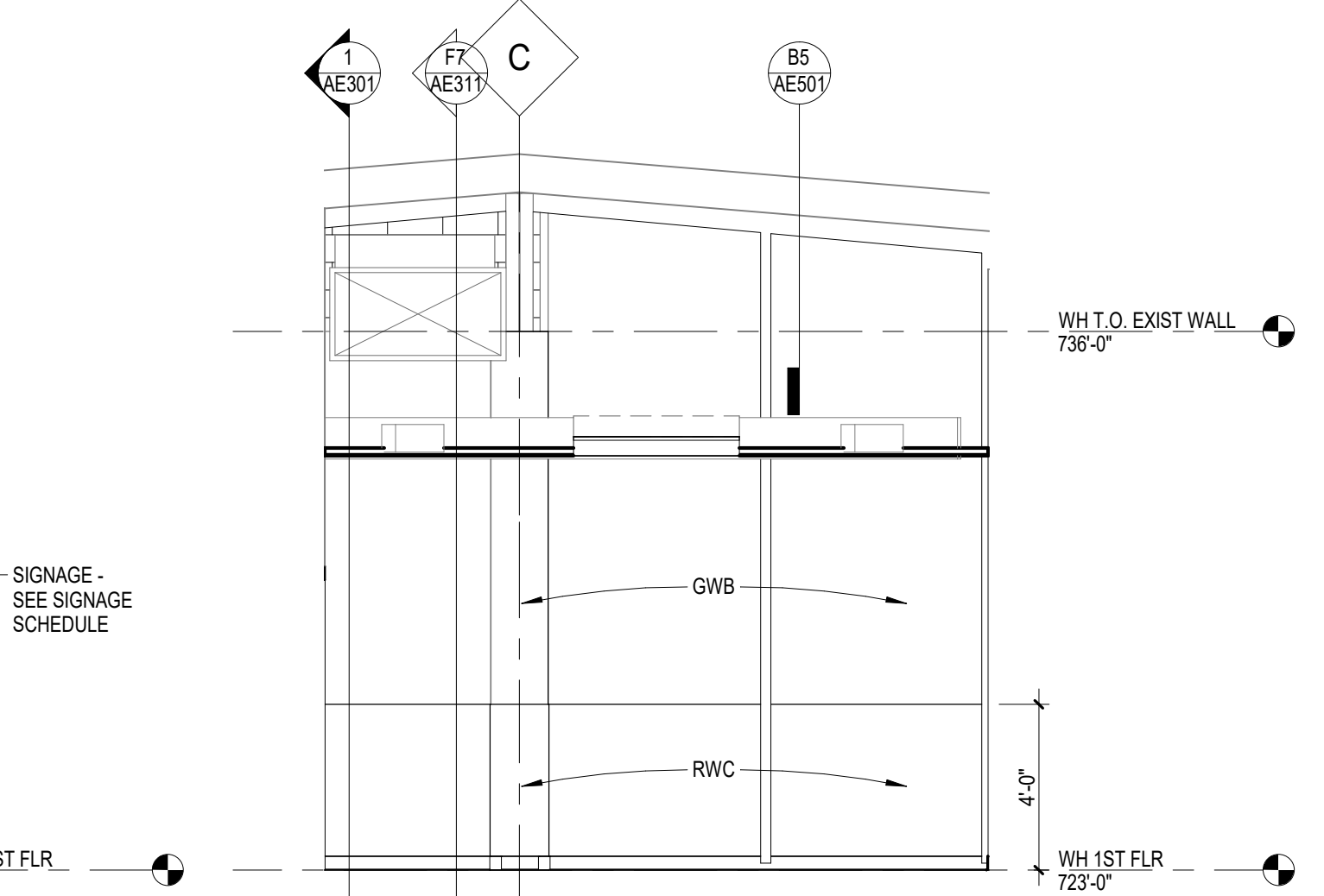
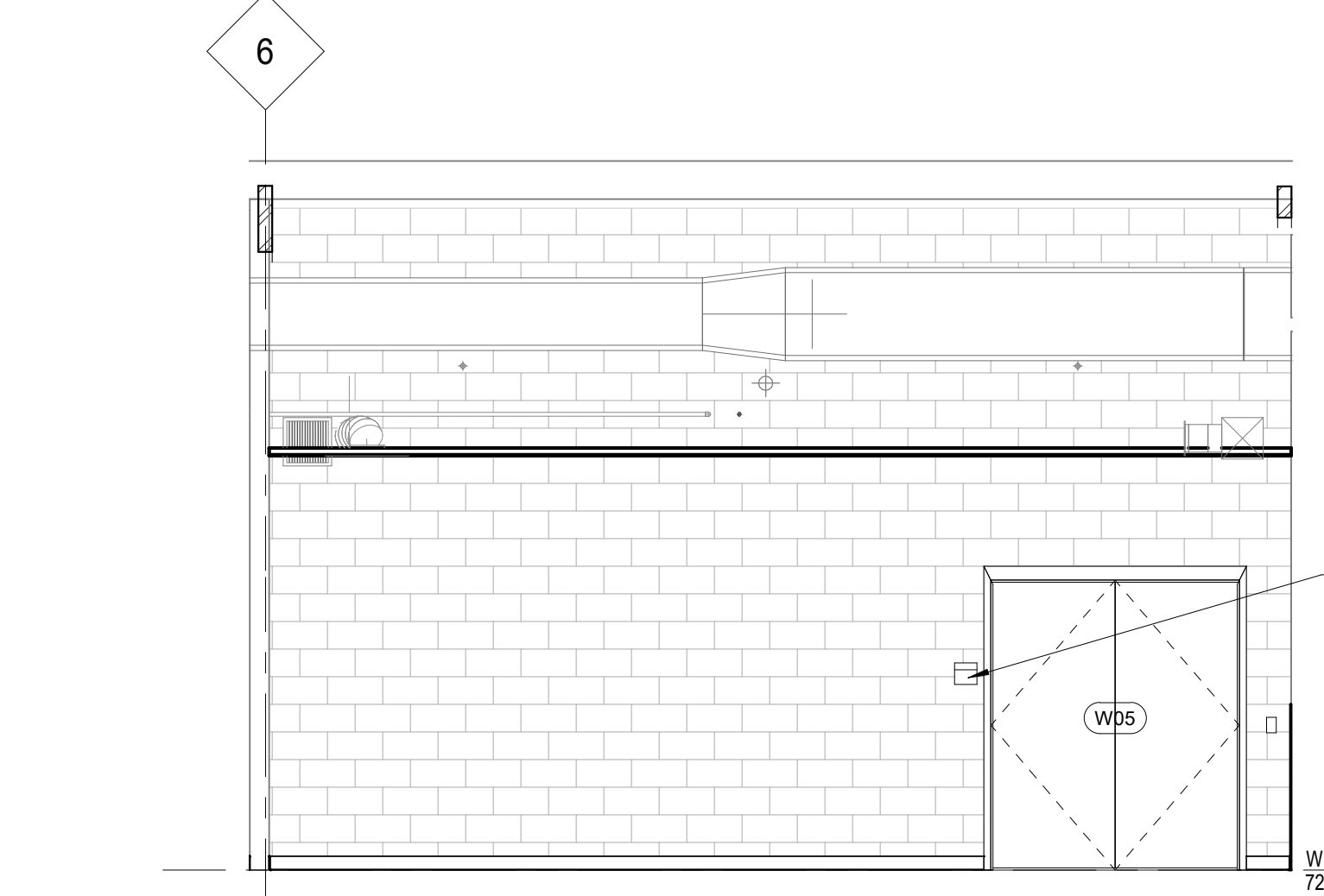


B1 W05 NORTH ELEV
1/4" = 1'-0"

B3 W05 EAST ELEV
1/4" = 1'-0"

B6 W05 SOUTH ELEV
1/4" = 1'-0"

B8 W05 WEST ELEV
1/4" = 1'-0"

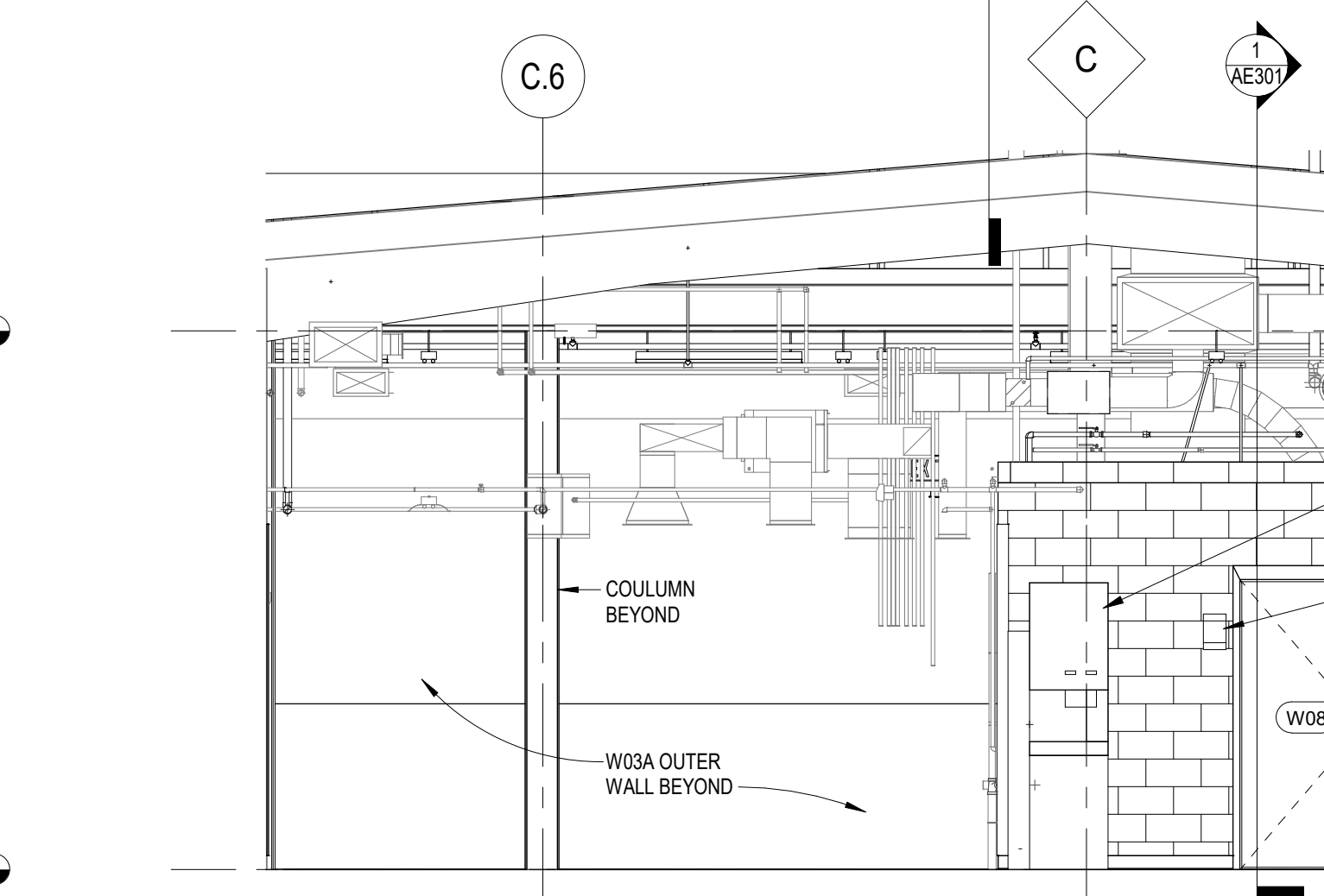
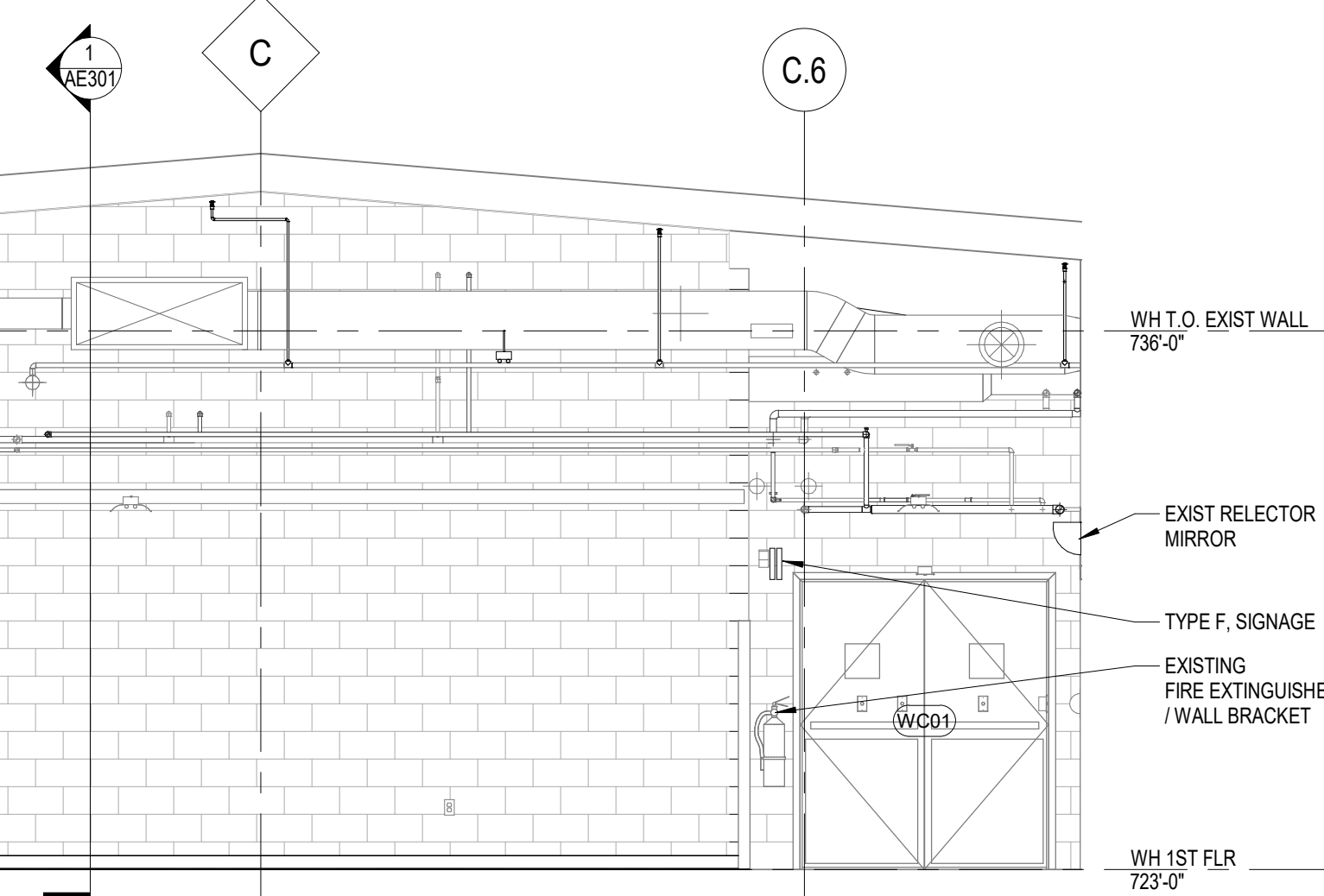
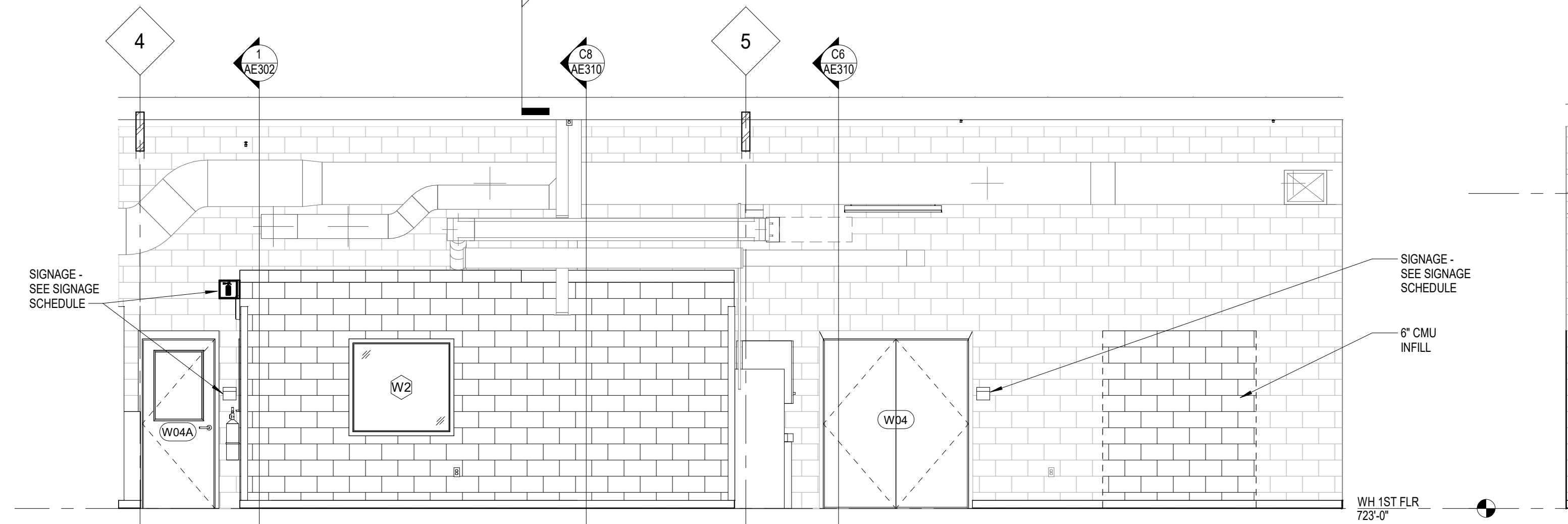


C1 W06 NORTH ELEV
1/4" = 1'-0"

C3 W06 EAST ELEV
1/4" = 1'-0"

C5 W06 SOUTH ELEV
1/4" = 1'-0"

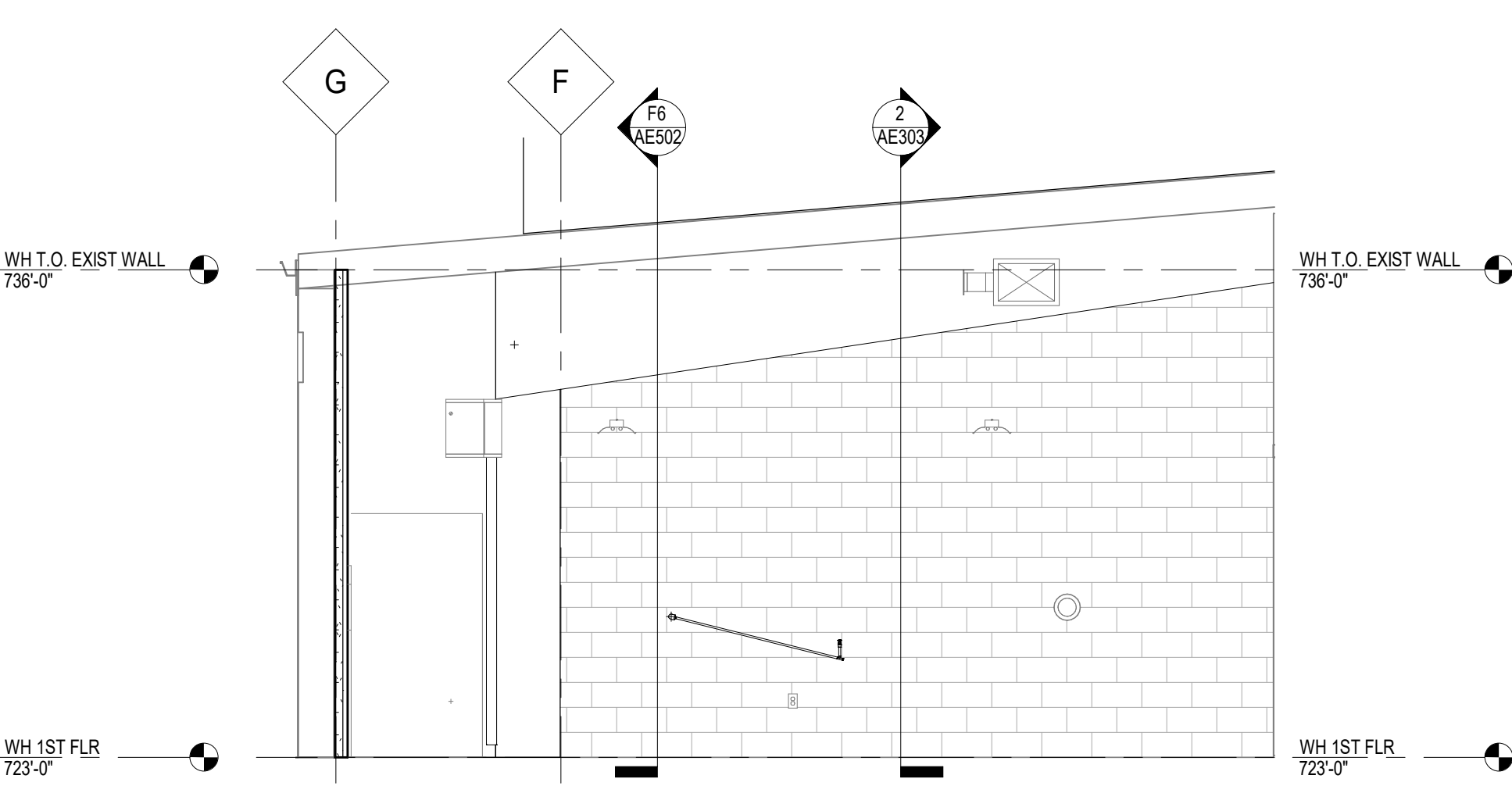
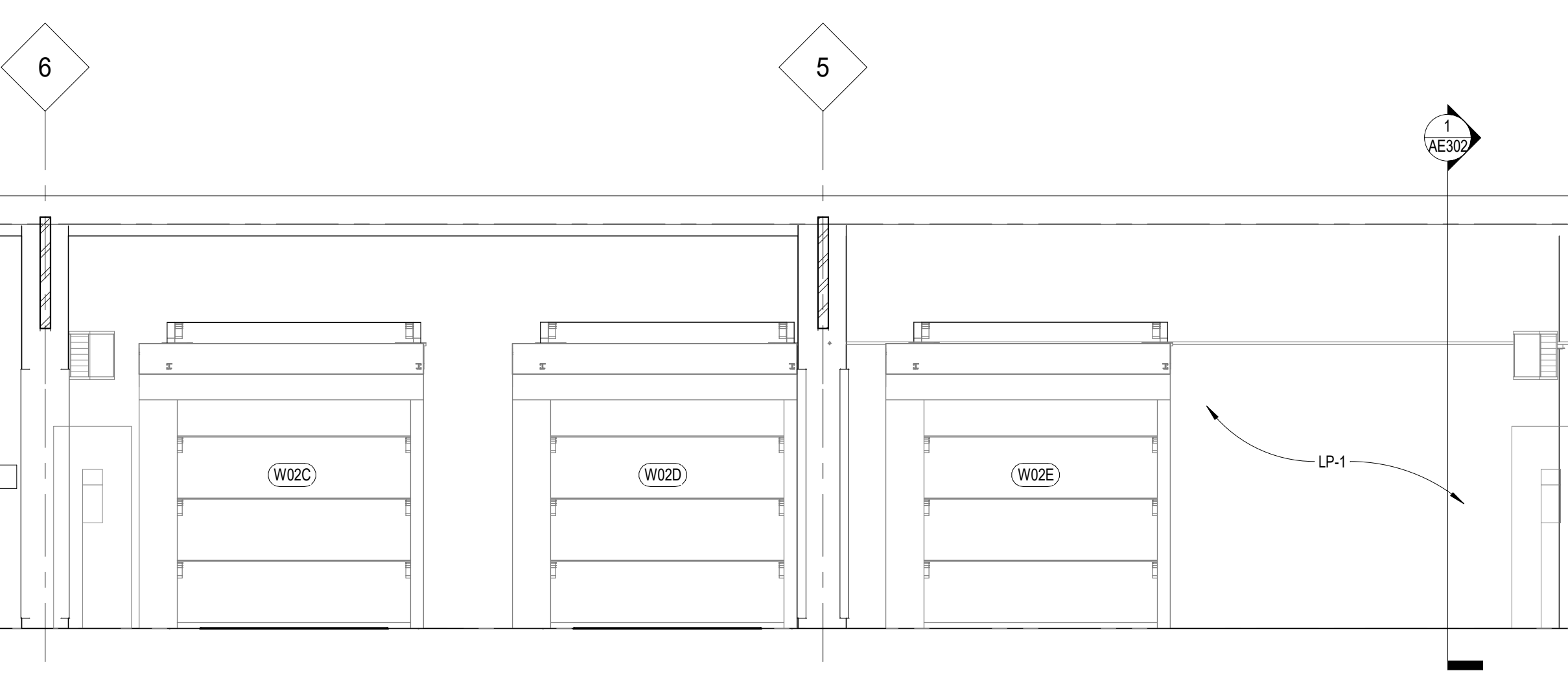
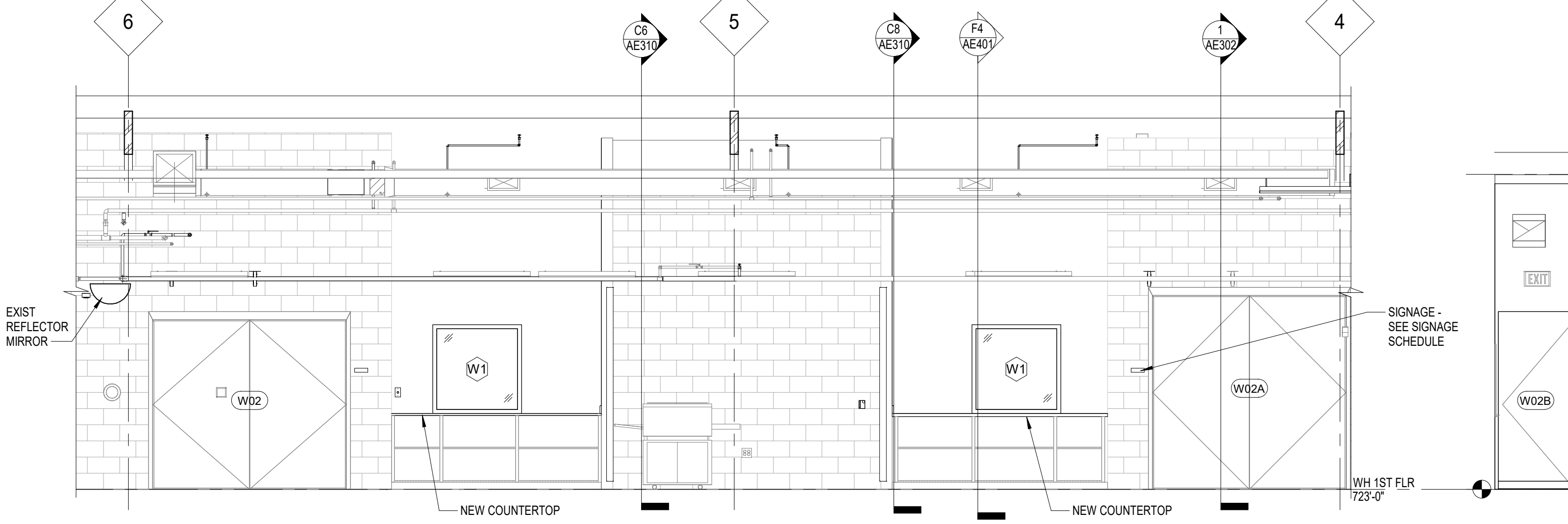
C7 W06 WEST ELEV
1/4" = 1'-0"



E1 WC03-WC04-W07 NORTH ELEV
1/4" = 1'-0"

E5 WC03 EAST ELEV
1/4" = 1'-0"

E7 WC03-WC08-WC01A WEST ELEV
1/4" = 1'-0"



F1 WC01A SOUTH ELEV
1/4" = 1'-0"

F4 W02 SOUTH ELEV
1/4" = 1'-0"

F8 W02 WEST ELEV
1/4" = 1'-0"

PHASING NOTES:
PHASING TO BE DEVELOPED TO MINIMIZE DISRUPTION OF OWNER-RELATED ACTIVITIES WITHIN THE PROJECT AREA. REFER TO PHASING PLANS PH101 THRU PH103 FOR ADDITIONAL INFORMATION.
BRIEF PHASING DESCRIPTION:
A. PHASE 1 - DEMOLITION AND INSTALLATION OF WEST WAREHOUSE NEW ROOF SUPERSTRUCTURE, MODIFICATION OF EXISTING EAST WAREHOUSE ROOF AND BUILDING STRUCTURE, LIMITED DEMOLITION - EAST WAREHOUSE OF INTERIOR ROOMS W07-W08-W09, CONSTRUCT HVAC FROM BLDG. 1 TO WAREHOUSE.
B. PHASE 2 - DEMOLITION OF WEST WAREHOUSE EXISTING ROOF/FRAMING, CONSTRUCTION OF WEST WAREHOUSE UPPER EXTERIOR WALL ENCLOSURE, LIMITED DEMOLITION OF WEST WAREHOUSE INTERIOR ROOM W03A.
C. PHASE 3 - CONSTRUCTION OF NEW MEZZANINE FLOOR AND DRUG STORAGE ROOM W03A, CONSTRUCTION OF NEW OFFICE/TOILET W08-W09, NEW EXTERIOR WALL INSULATION AND FINISHES.

INTERIOR ELEVATIONS GENERAL NOTES:
1. SEE SHEET AE901 FOR INTERIOR ELEVATION GENERAL NOTES.

INTERIOR ELEV. SHEET NOTES:
1. SEE SHEETS AF101 AND AF102 FOR SIGNAGE LOCATIONS. SEE SHEET AF502 FOR SIGNAGE SCHEDULE AND MOUNTING HEIGHTS.

BID ITEMS & DEDUCT ALTERNATES:

- REFER TO SECTION 01 00 00 FOR STATEMENT OF BID ITEMS
- A. BID ITEM #1, GENERAL CONSTRUCTION, BASE BID: Renovate Warehouse for Pandemic Preparedness. Includes all scope communicated in the drawings and specifications:
 1. Work includes general construction, alterations, walks, grading, drainage, necessary removal of existing structures and construction of certain other items.
 - B. BID ITEM #2, Renovate Warehouse for Pandemic Preparedness. Includes all scope described in Bid Item #1 - excluding Bid Deduct #1 described below:
 1. Work associated with new Material LR WE01.
 2. Work associated with construction and finishes for new Rooms W08 and W09 (Demolition of existing Rooms W07, W08 and W09, including plumbing, fixtures and finishes in Room W08 will be retained in Base Bid).
 3. Work associated with installation of new ceilings and finishes in Rooms W04, W05A and W06.
 4. Demolition and renovation of work counters at Rooms W10A and W10C.

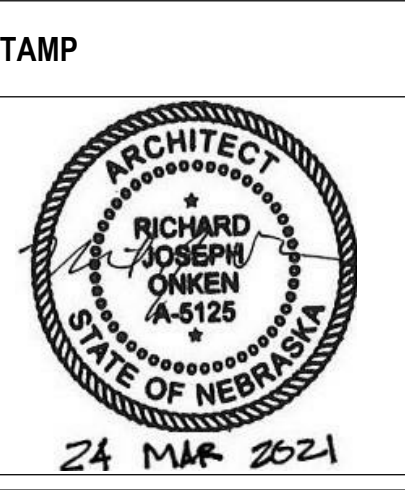
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BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD
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15 Summit Drive, Suite 104
St. Louis, MO 63143
Phone: (314) 954-2534

incandescence life safety
a fire protection engineering firm



Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
INTERIOR ELEVATIONS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Project Number
589A4-20-158

Building Number
14

Drawing Number
AE904
Dwg. # 43 of 94

INTERIOR ELEVATIONS GENERAL NOTES:

1. SEE SHEET AE901 FOR INTERIOR ELEVATION GENERAL NOTES.

INTERIOR ELEV. SHEET NOTES:

1. SEE SHEETS AF101 AND AF102 FOR SIGNAGE LOCATIONS. SEE SHEET AF102 FOR SIGNAGE SCHEDULE AND MOUNTING HEIGHTS.

PHASING NOTES:

PHASING TO BE DEVELOPED TO MINIMIZE DISRUPTION OF OWNER-RELATED ACTIVITIES WITHIN THE PROJECT AREA.

REFER TO PHASING PLANS PH101 THRU PH103 FOR ADDITIONAL INFORMATION.

BRIEF PHASING DESCRIPTION:

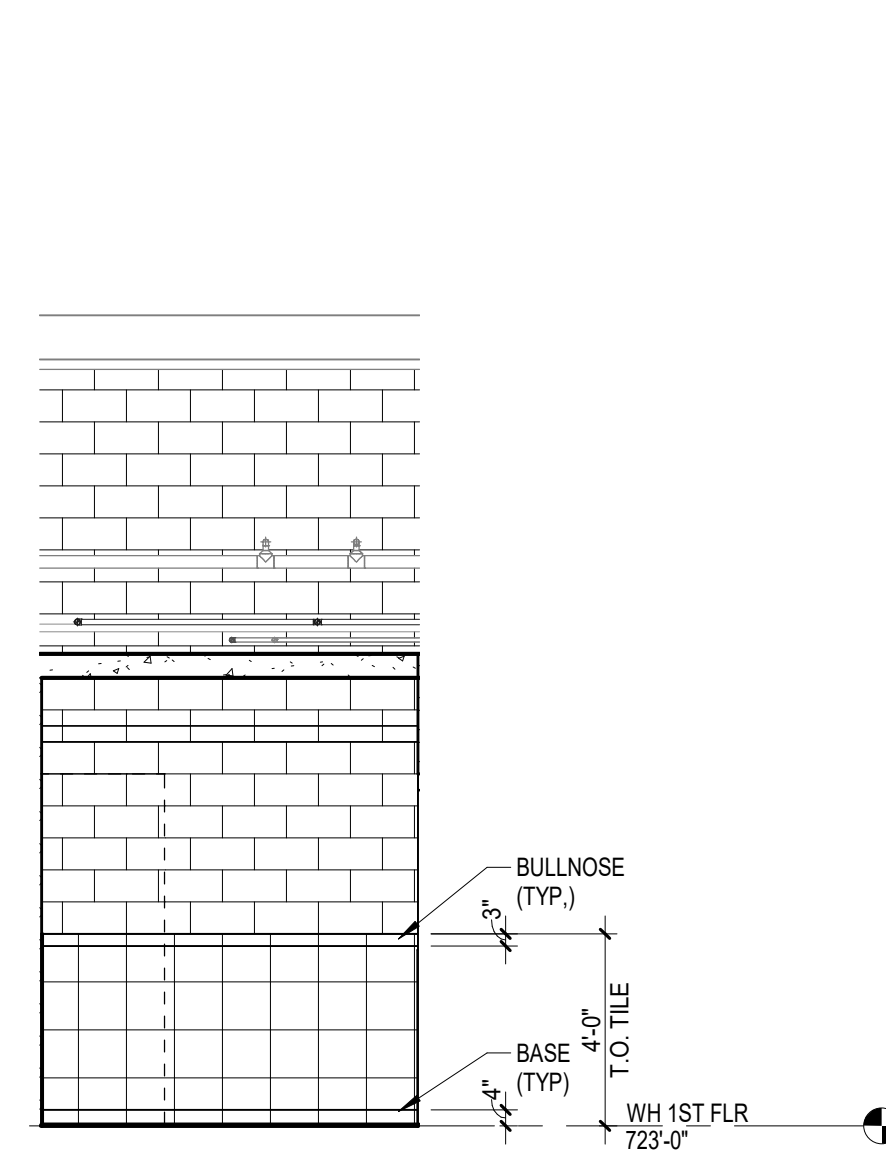
- A. PHASE 1 - DEMOLITION AND INSTALLATION OF WEST WAREHOUSE NEW ROOF SUPERSTRUCTURE. MODIFICATION OF EXISTING EAST WAREHOUSE ROOF AND BUILDING STRUCTURE. LIMITED DEMOLITION EAST WAREHOUSE OF INTERIOR ROOMS W07-W08. CONSTRUCT HVAC FROM BLDG. 1 TO WAREHOUSE.
- B. PHASE 2 - DEMOLITION OF WEST WAREHOUSE EXISTING ROOF/FRAMING. CONSTRUCTION OF WEST WAREHOUSE UPPER EXTERIOR WALL ENCLOSURE. LIMITED DEMOLITION OF WEST WAREHOUSE INTERIOR ROOM W08A.
- C. PHASE 3 - CONSTRUCTION OF NEW MEZZANINE FLOOR AND DRUG STORAGE ROOM W03A. CONSTRUCTION OF NEW OFFICE/TOILET W08-W09. NEW EXTERIOR WALL INSULATION AND FINISHES.

EQUIPMENT SCHEDULE				
KEY	JSN	DESCRIPTION	PROVIDED	INSTALLED
GB-18	A5109	GRAB BAR 18"	C	C
GB-36	A5109	GRAB BAR 36"	C	C
GB-42	A5109	GRAB BAR 42"	C	C
GH-1	A5145	GARMENT HOOK - DOOR-MTD.	C	C
GH-2	A5150	GARMENT 4 HOOK - WALL-MTD.	C	C
HW-1	Uxxxx	ICE & WATER DISPENSER	V	C
MIR-1	A1067	MIRROR 24"W X 36"H	C	C
PT-1	A5082	PAPER TOWEL DISPENSER	V	C
RF-2	R5100	REFRIGERATOR / FREEZER	V	V
SD-1	A5075	SOAP DISPENSER	V	V
TT-1	AS200	TOILET TISSUE DISPENSER	V	C
WP-1	F2010	WASTE PAPER BASKET	V	V

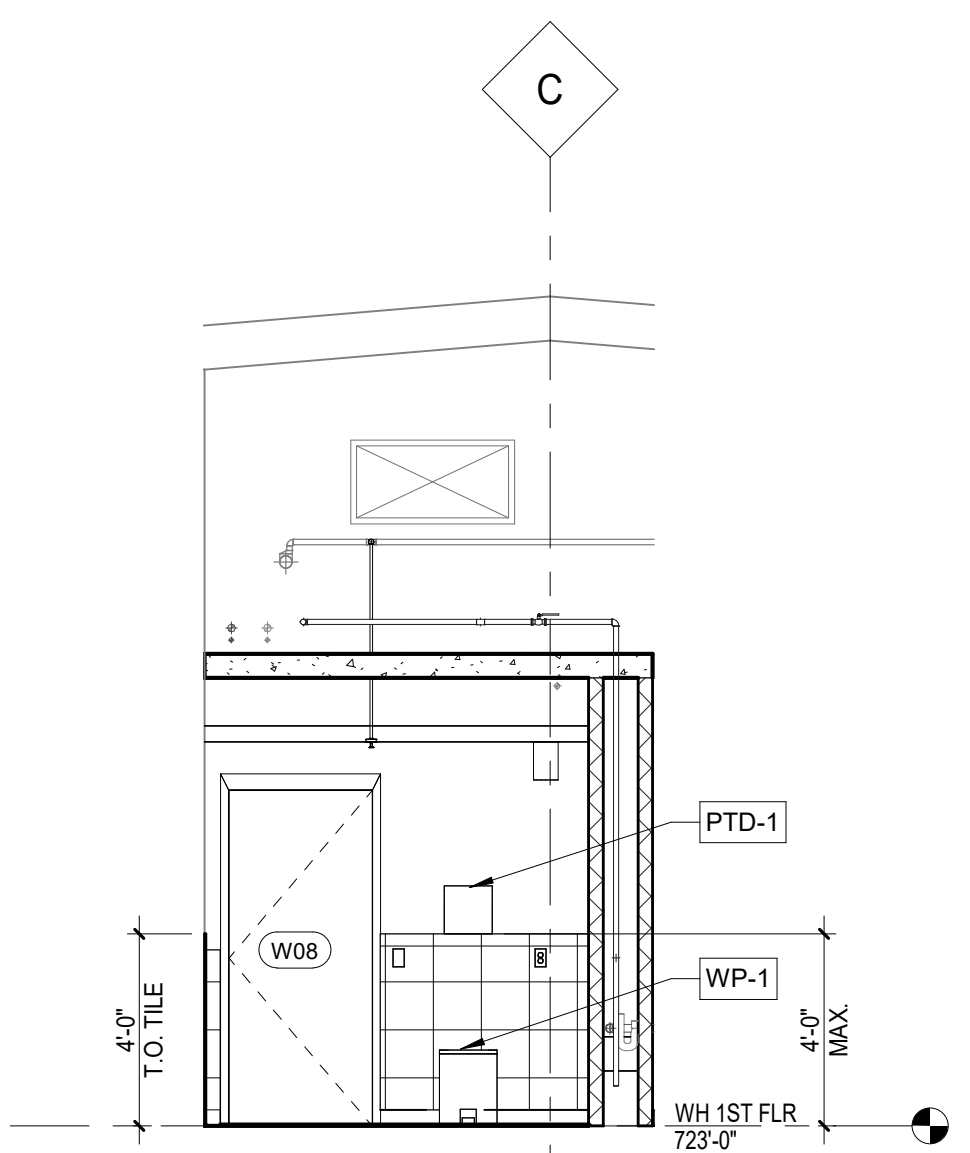
BID ITEMS & DEDUCT ALTERNATES:

REFER TO SECTION 01 00 00 FOR STATEMENT OF BID ITEMS

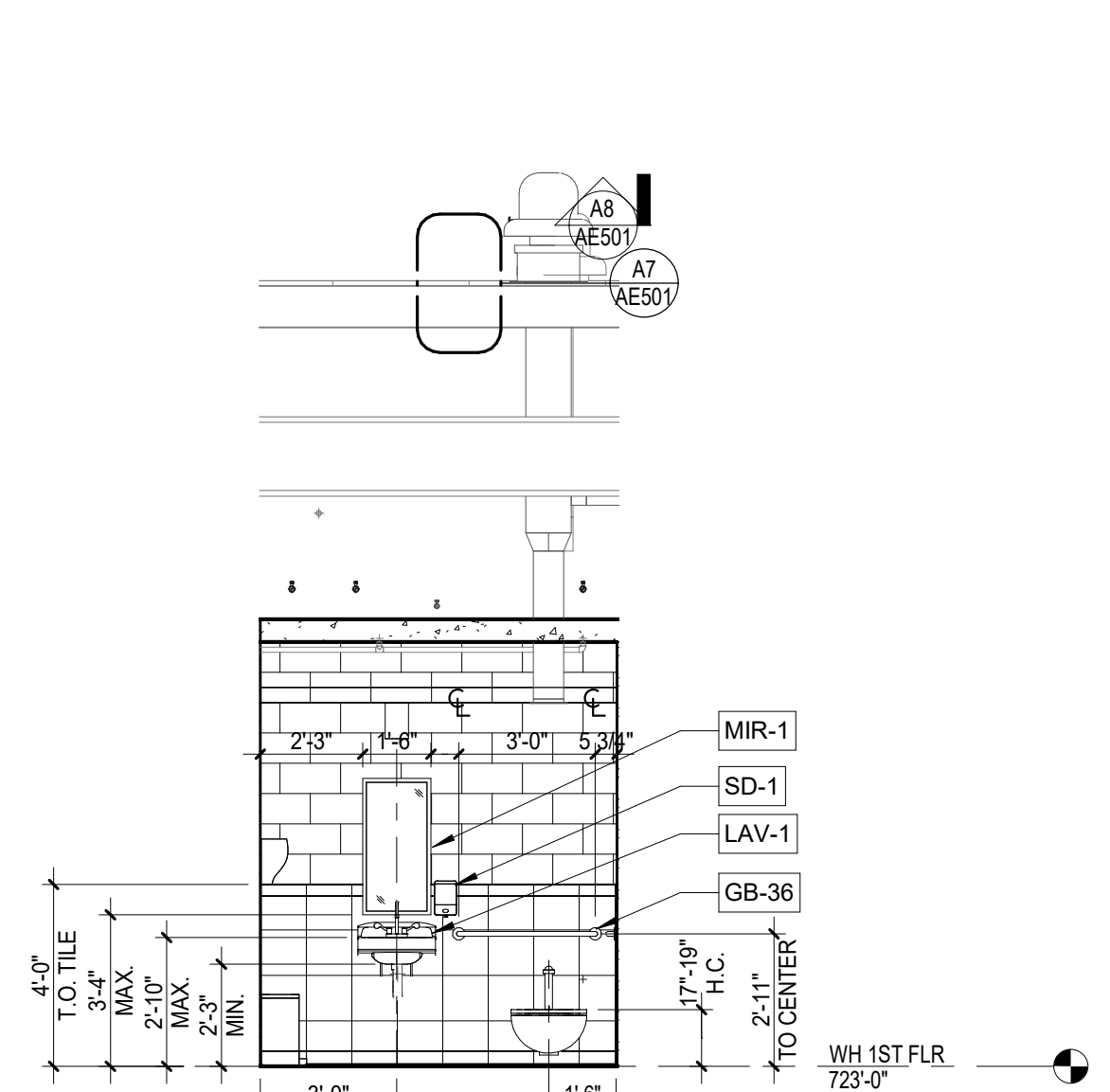
- A. BID ITEM #1. GENERAL CONSTRUCTION. BASE BID: Renovate Warehouse for Pandemic Preparedness. Includes all scope communicated in the drawings and specifications.
 1. Work includes general construction, alterations, walks, grading, drainage, necessary removal of existing structures and construction of certain other items.
- B. BID ITEM #2. Renovate Warehouse for Pandemic Preparedness. Includes all scope described in Bid Item #1 - excluding Bid Deduct #1 described below.
 1. Work associated with new Material LR WE01.
 2. Work associated with construction and finishes for new Rooms W08 and W09 (Demolition of existing Rooms W07, W08 and W09, including plumbing, fixtures and finishes in Room W08 will be retained in Base Bid).
 3. Work associated with installation of new ceilings and finishes in Rooms W04, W05A and W06.
 4. Demolition and renovation of work counters at Rooms W08A and W10C.



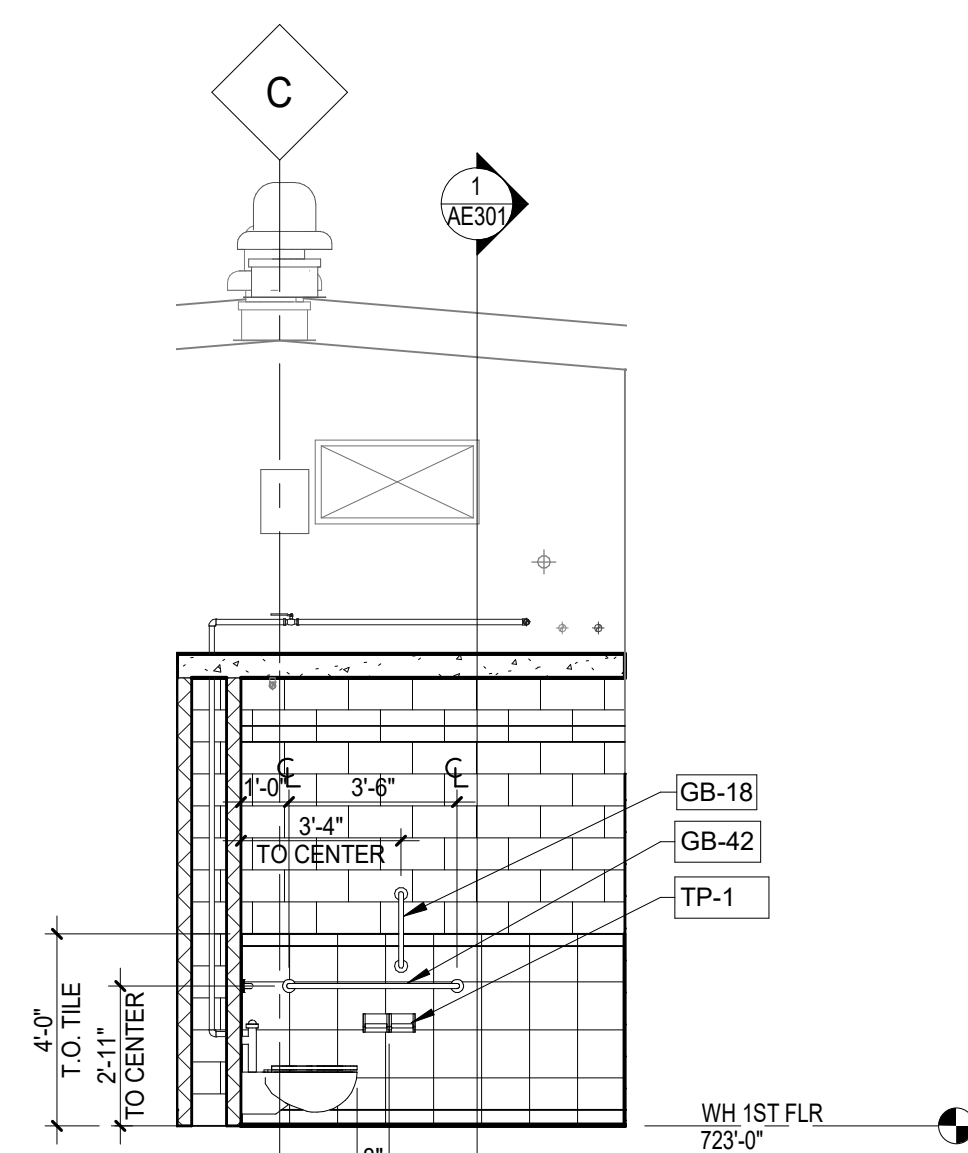
B1 W08 NORTH RENO RESTROOM
1/4" = 1'-0"



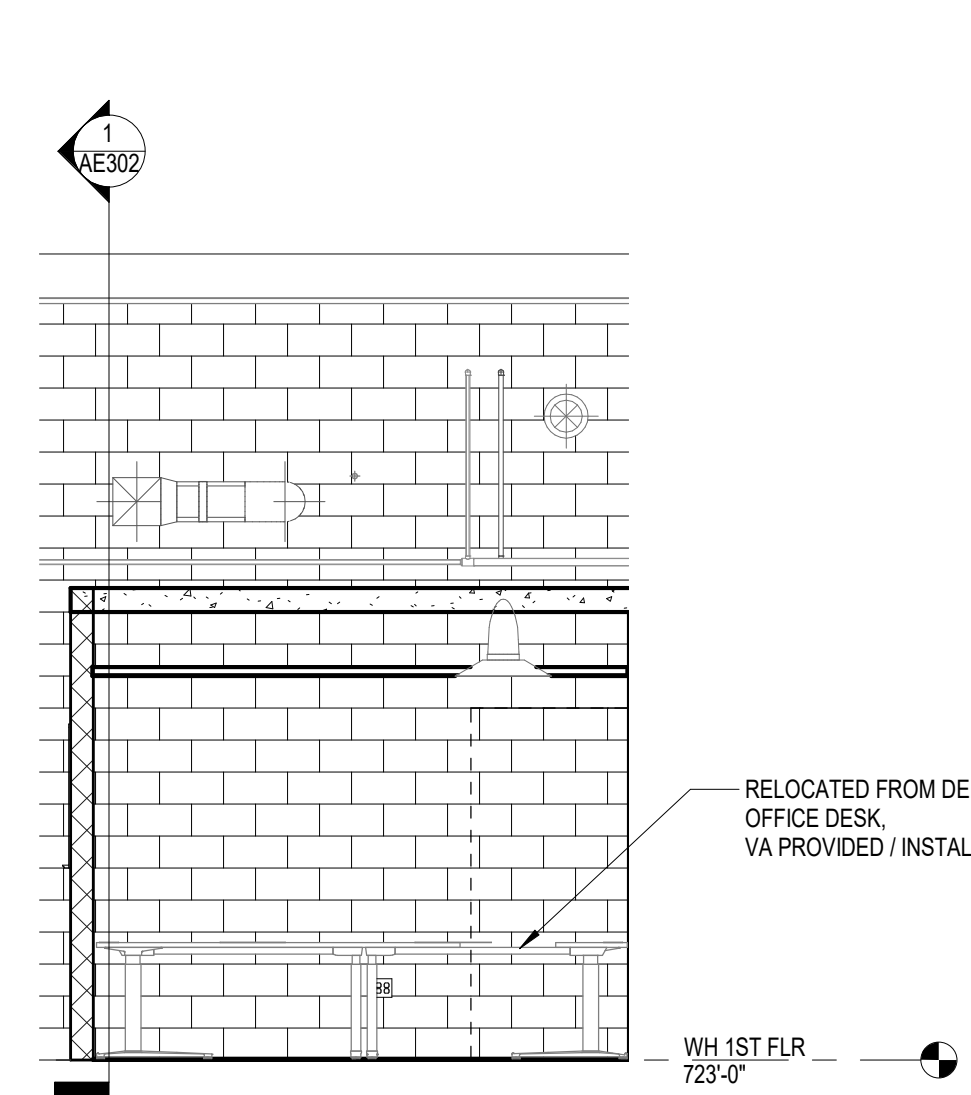
B3 W08 EAST RENO RESTROOM
1/4" = 1'-0"



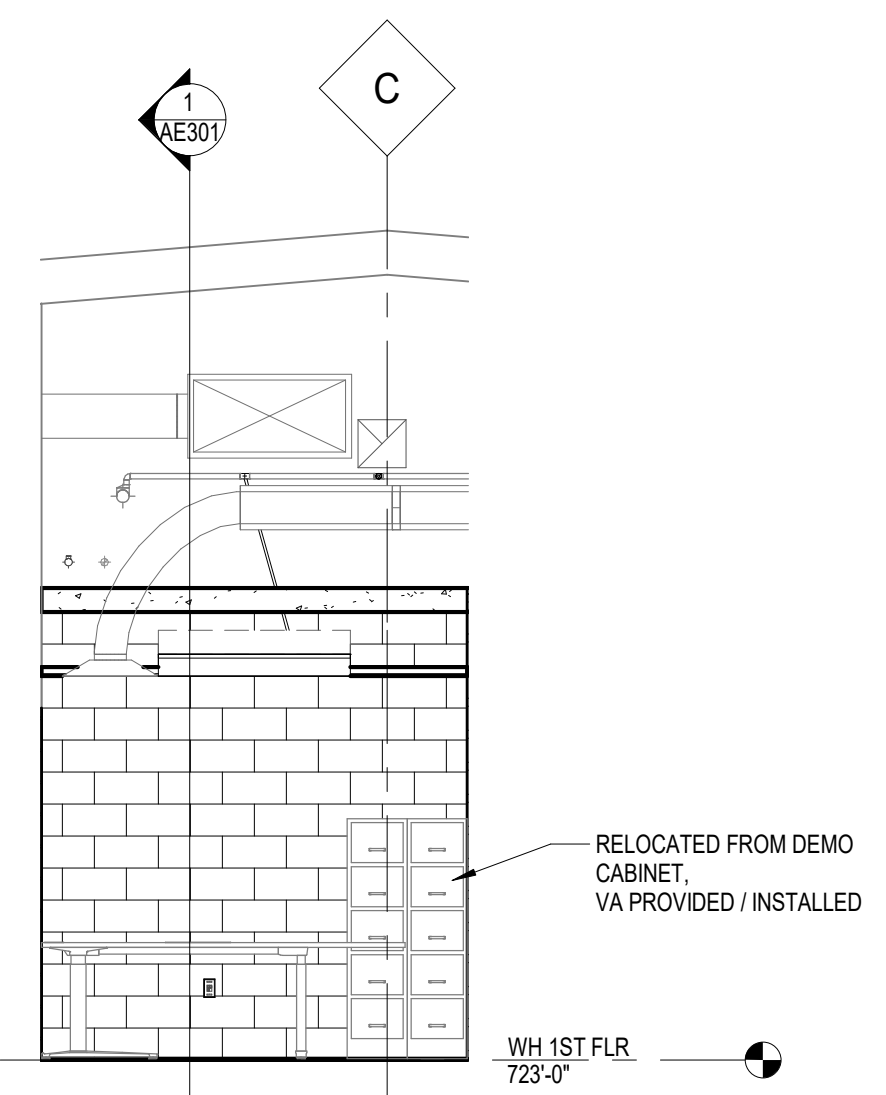
B5 W08 SOUTH RENO RESTROOM
1/4" = 1'-0"



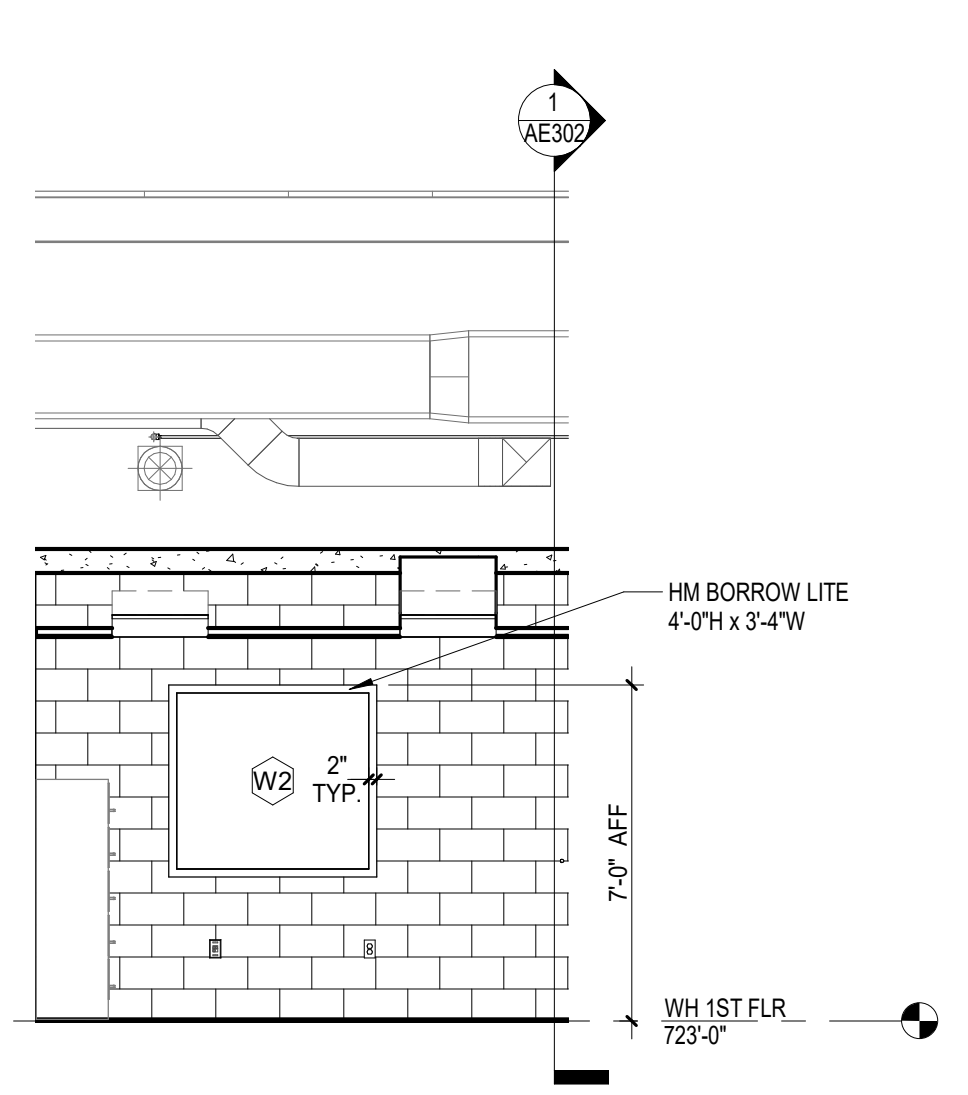
B7 W08 WEST RENO RESTROOM
1/4" = 1'-0"



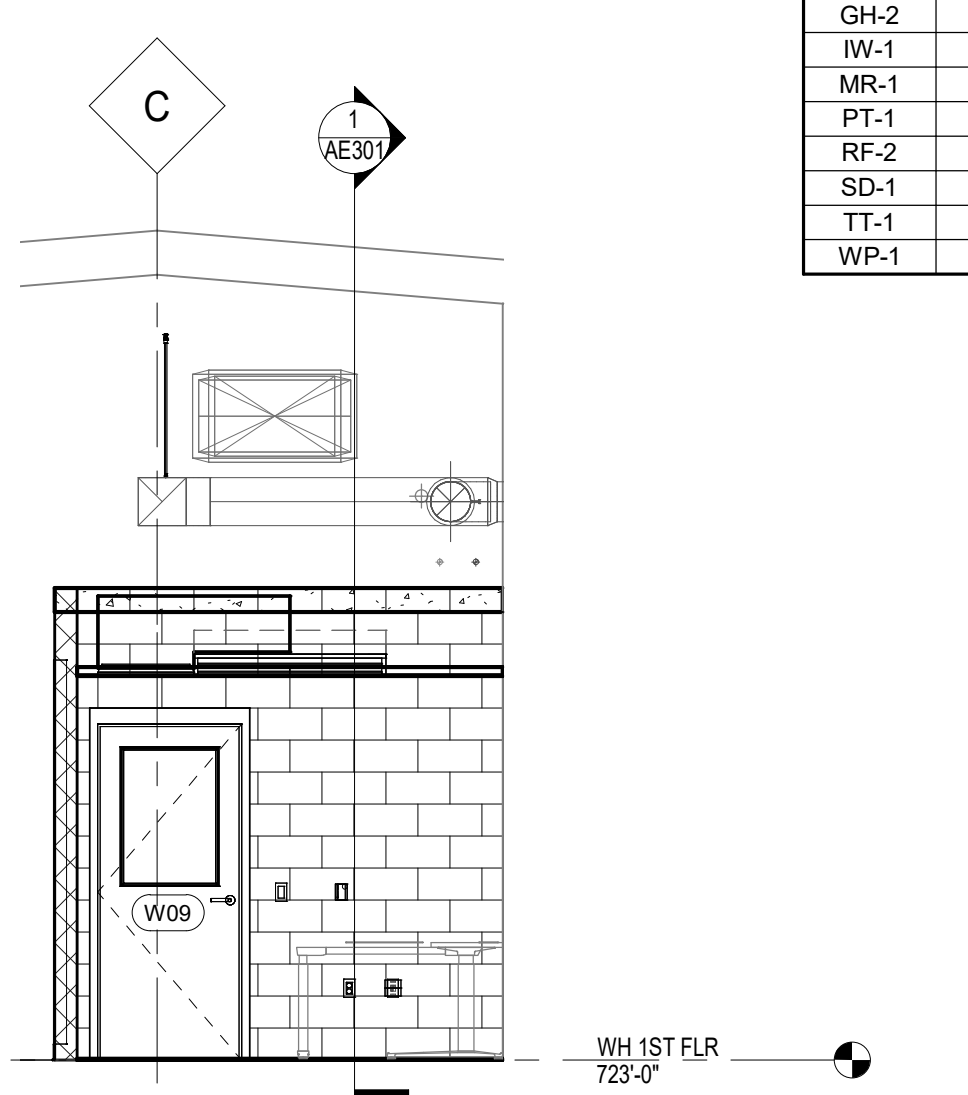
D1 W09 NORTH ELEV RENO OFC
1/4" = 1'-0"



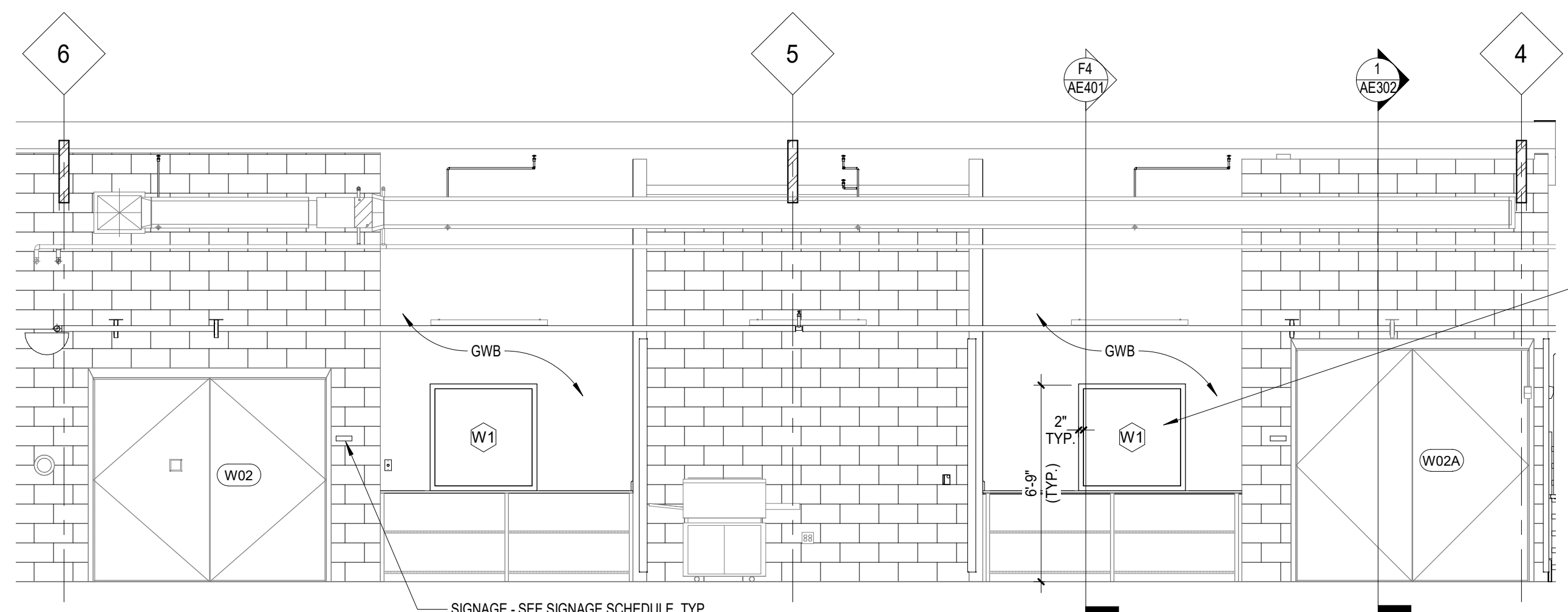
D3 W09 EAST ELEV RENO OFC
1/4" = 1'-0"



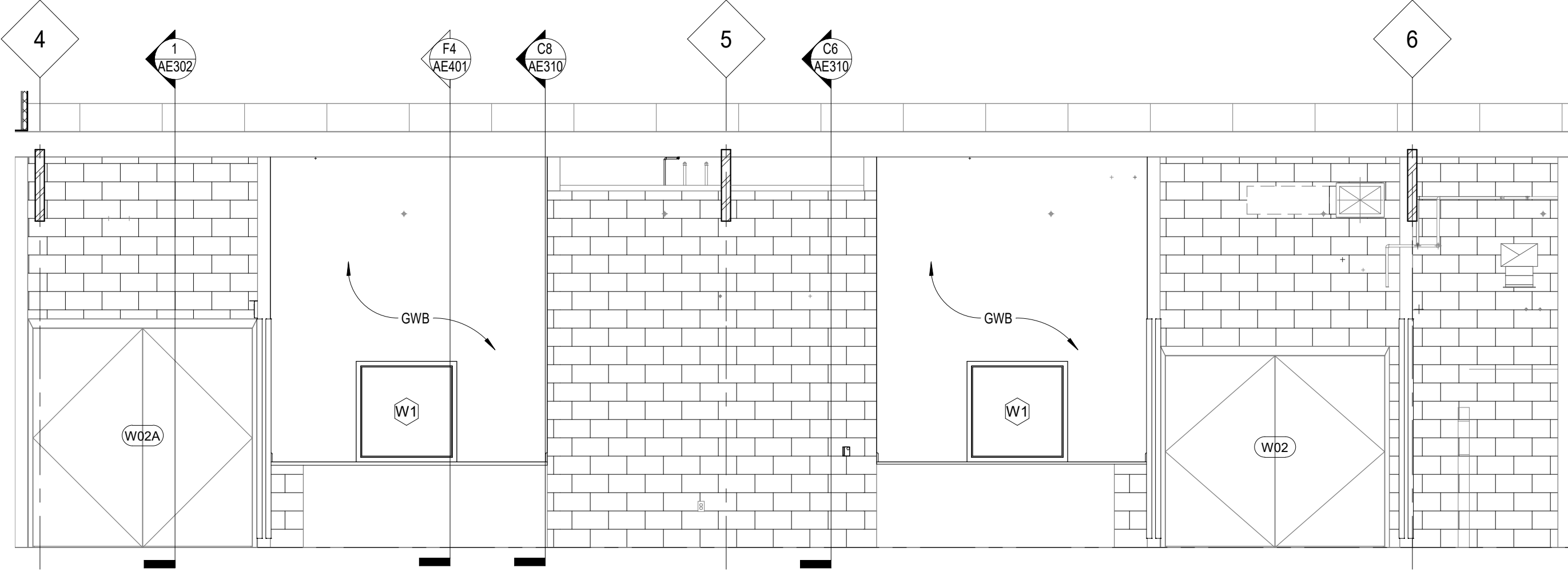
D5 W09 SOUTH ELEV RENO OFC
1/4" = 1'-0"



D7 W09 WEST ELEV RENO OFC
1/4" = 1'-0"



F1 W10 WORK STATIONS NORTH ELEV
1/4" = 1'-0"



F5 W02 RECEIVING DOCK NORTH ELEV
1/4" = 1'-0"

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BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

CLH
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Elkhorn, Nebraska 68022
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incandescence life safety
a fire protection engineering firm

STAMP

ARCHITECT
RICHARD JOSEPH OWEN
A-6125
STATE OF NEBRASKA
24 MAR 2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
INTERIOR ELEVATIONS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

Checked
AHT

Drawn
TJF

Project Number
58944-20-158

Building Number
14

Drawing Number
AE905
Dwg. # 44 of 94

REFLECTED CEILING PLAN GENERAL NOTES:

- REFER TO ROOM FINISH SCHEDULE ON SHEET AE01 FOR CEILING TYPES.
- CEILINGS SHOWN OPEN TO STRUCTURE AT UNDERSIDE OF MEZZANINE SHALL HAVE EXPOSED METAL DECK PAINTED WITH DRY-FALL PAINT PER COLOR AND ROOM FINISH SCHEDULES AS SCHEDULED FOR CEILINGS ON SHEET AE01. COLUMNS AND BEAMS TO BE PAINTED PER COLOR SCHEDULE.
- UNDERSIDE OF ROOF SHOWN OPEN TO STRUCTURE IN NEW CONSTRUCTION SHALL HAVE EXPOSED STRUCTURAL MEMBERS AND METAL DECK PAINTED WITH DRY-FALL PAINT PER COLOR AND ROOM FINISH SCHEDULES ON SHEET AE01.
- CEILINGS SHOWN OPEN TO STRUCTURE IN EXISTING CONSTRUCTION WILL NOT REQUIRE PAINTING OF PEMB ROOF PURLINS, FRAMES OR VINYL SCRM-FACED INSULATION.
- PAINT EXPOSED DUCTWORK AND PIPING NOT OTHERWISE SCHEDULED FOR FINISHES (I.E. FIRE SPRINKLER LINES, FIRE ALARM CONDUIT, HIGH-VOLTAGE ELECTRICAL CONDUIT, ETC.) WITH PAINT PER COLOR AND ROOM FINISH SCHEDULES AS SCHEDULED FOR CEILINGS ON SHEET AE01.
- SUSPENDED ITEMS IN AREAS EXPOSED TO STRUCTURE SHALL ATTEMPT TO MAINTAIN A MINIMUM CLEARANCE OF 12'-0" FROM FINISH FLOOR TO BOTTOM OF ITEM. FOR ITEMS BELOW 12'-0" REFER TO MEP DRAWINGS FOR DESIGNED MOUNTING HEIGHTS. COORDINATE CLEARANCES W/ COR.
- PROVIDE GYPSUM WALL BOARD AND METAL STUD BULK HEADS WHERE CEILINGS OF DIFFERENT HEIGHTS ADJUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIALS UNLESS SPECIFICALLY DETAILED.
- REFER TO MECHANICAL DRAWINGS (M-SERIES) FOR QUANTITY AND TYPE OF DIFFUSERS, RETURN AIR GRILLES, AND EXHAUST GRILLES. SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.
- REFER TO ELECTRICAL DRAWINGS (E-SERIES) FOR QUANTITY AND TYPE OF LIGHTS, SPEAKERS, DETECTORS, POWER OUTLETS, ETC. SCRIBE CEILING MATERIALS CAREFULLY. WHERE NO DEVICES ARE SHOWN ON PLANS, FIELD VERIFY LOCATION & QUANTITY OF DEVICES IN EXISTING CEILING.
- COORDINATE W/ COR FOR DEVICES THAT WILL BE RELOCATED TO EXISTING AND NEW CEILINGS.
- ALTHOUGH NOT SPECIFICALLY SHOWN, THE ENTIRE PROJECT HAS FIRE SPRINKLER HEADS IN CEILING. SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.
- CONTRACTOR TO FIELD VERIFY EXTENT OF CEILING REMOVAL AND REPLACEMENT WITH COR. CONTRACTOR TO COORDINATE WITH ALL TRADES.
- ALL EXISTING TO REMAIN GRILLES, DIFFUSERS AND LIGHTS ETC. TO BE CLEANED.

SHADED AREA NOT IN SCOPE OF WORK

EXISTING CEILING SHOWN HATCHED TO BE REMOVED AND REPLACED AS REQ'D. FOR ABOVE-CEILING MEP WORK. COORD. W/ MEP CONTR- SEE MEP DRAWINGS FOR EXTENTS OF MEP WORK.

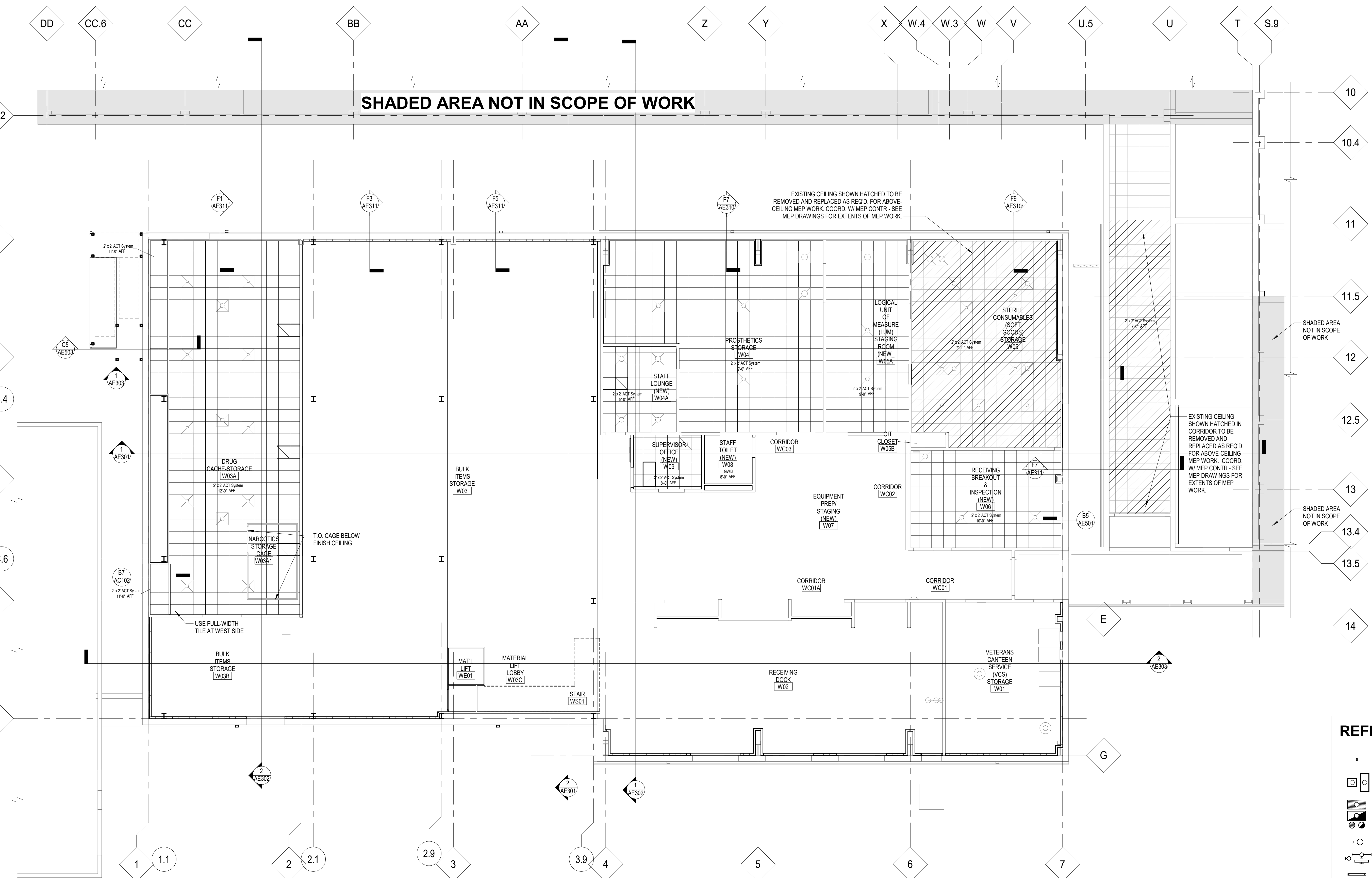
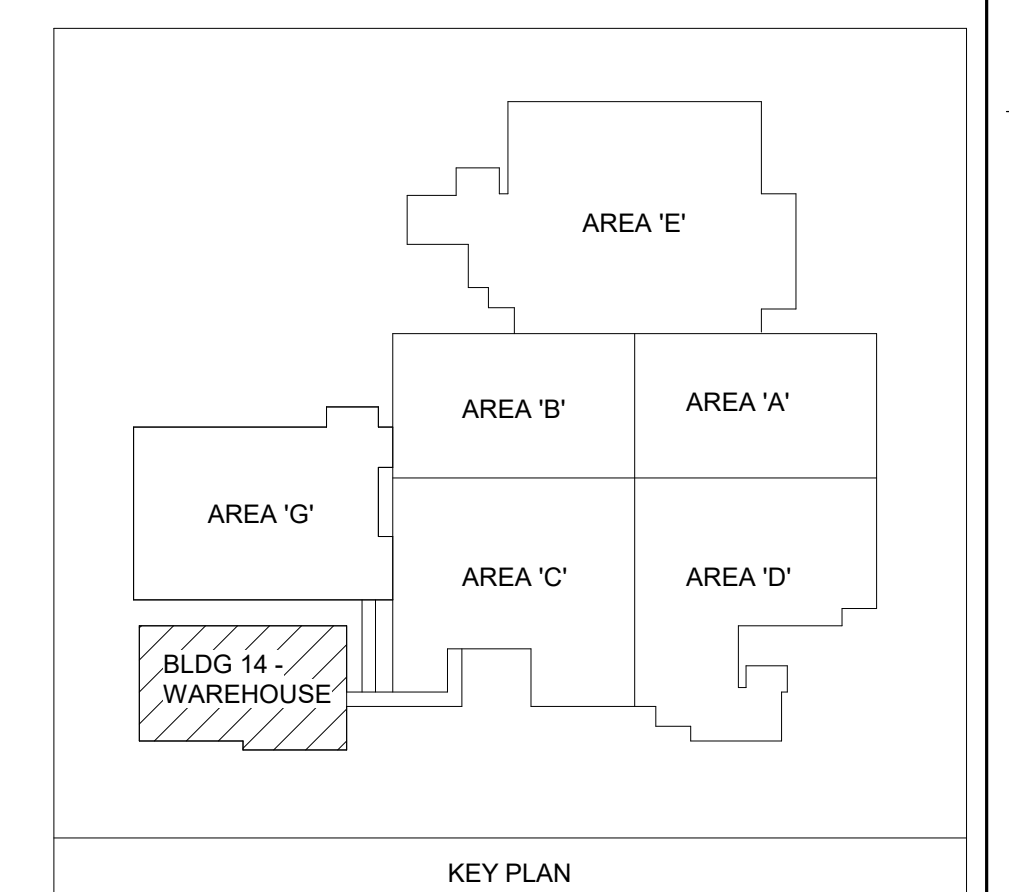
EXISTING CEILING SHOWN HATCHED IN CORRIDOR TO BE REMOVED AND REPLACED AS REQ'D. FOR ABOVE-CEILING MEP WORK. COORD. W/ MEP CONTR- SEE MEP DRAWINGS FOR EXTENTS OF MEP WORK.

SHADED AREA NOT IN SCOPE OF WORK

SHADED AREA NOT IN SCOPE OF WORK

REFLECTED CEILING PLAN LEGEND

	ROOM EMERGENCY INDICATOR LIGHT		RETURN / EXHAUST GRILLE
	RECESSED LIGHT FIXTURE		SUPPLY DIFFUSER
	EGRESS LIGHTING / EMERGENCY LIGHTING		2' x 2' ACOUSTICAL TILE CEILING
	RECESSED CAN LIGHT		2' x 4' ACOUSTICAL TILE CEILING
	WALL MOUNTED LUMINAIRE		SOLID SURFACE CEILING
	LINEAR PENDANT		ACCESS PANEL
	SECURITY CAMERA		OCCUPANCY SENSOR
	SPEAKER		CEILING FAN
	EXIT SIGN		SPRINKLER HEAD
	SMOKE DETECTOR		
	MOTION SENSOR		
	RADIO REPEATER		
	360 OR 180 SECURITY DOME MIRROR		



REFLECTED CEILING PLAN - FIRST FLOOR

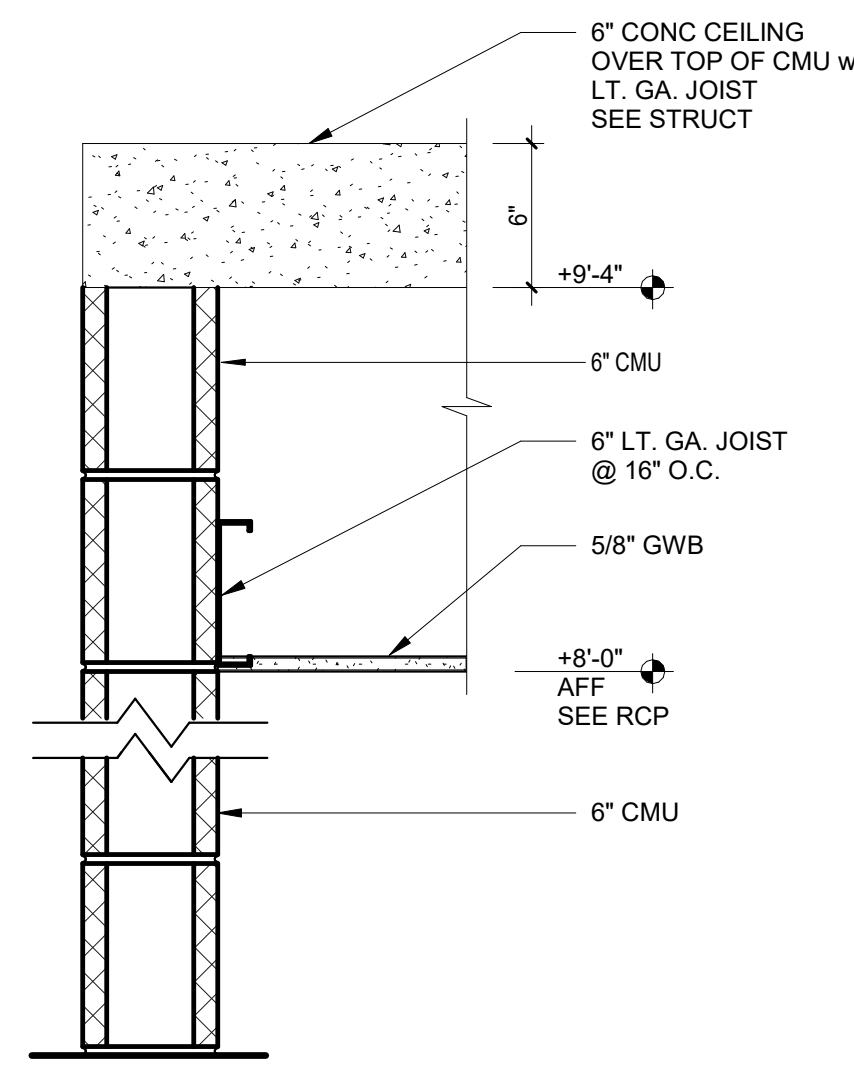
1/8" = 1'-0"

ARCHITECT/ENGINEER OF RECORD Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elkhorst, Nebraska 68022 Phone: 402.291.6941 Fax: 402.291.9193		IMEG IMEG Corp. 15 Summers Drive, Suite 104 St. Louis, MO 63143 Phone: (314) 954-2534		STAMP 		Office of Construction and Facilities Management U.S. Department of Veterans Affairs		Drawing Title FIRST FLOOR REFLECTED CEILING PLAN		Phase BID SET		Project Title RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS		Project Number 589A4-20-158	
BID SET Revisions:		03/24/2021 Date:				Approved:		Drawn TJF		Checked AHT		Issue Date 03/24/2021		Drawing Number AC101 Dwg. # 45 of 94	

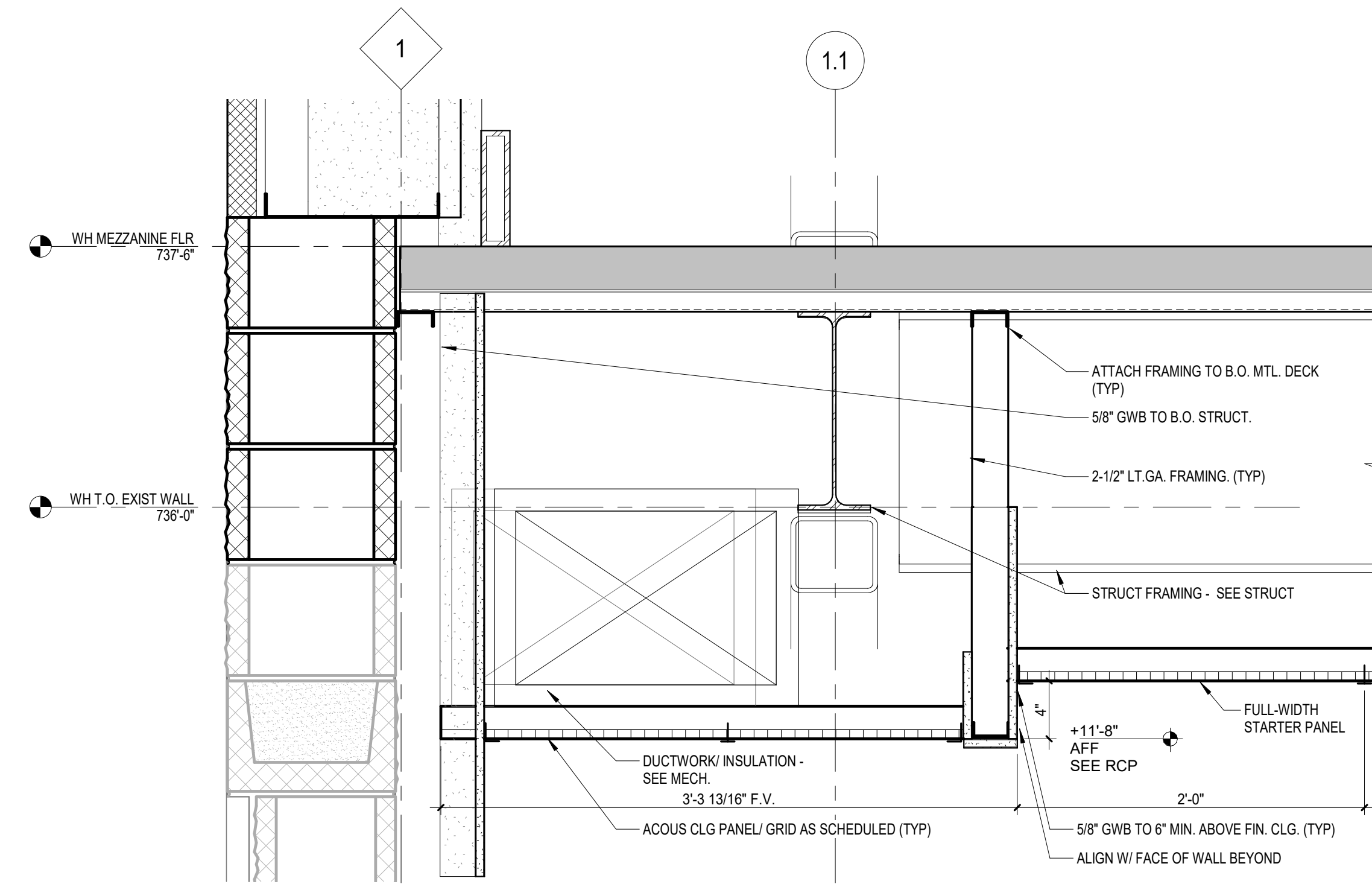
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**REFLECTED CEILING PLAN
GENERAL NOTES -
MEZZANINE:**

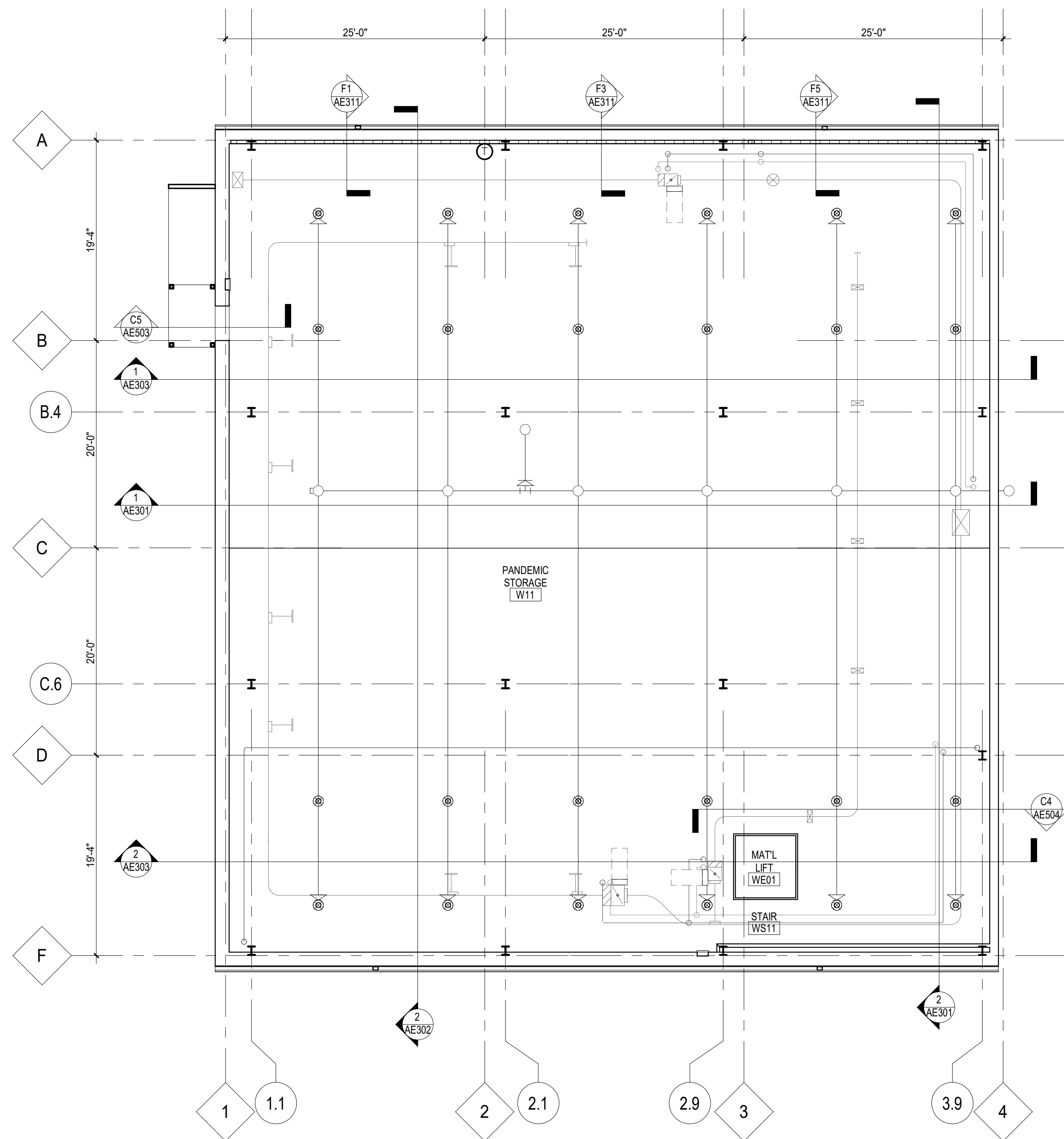
1. REFER TO SHEET AC101 FOR REFLECTED CEILING PLAN GENERAL NOTES
2. REFER TO SHEET AC101 FOR REFLECTED CEILING PLAN LEGEND
3. LIGHTS, FIRE SPRINKLERS & SECURITY EQPT. SHOWN FOR REFERENCE ONLY - REFER TO FIRE, MECH, ELEC & TECH DRAWINGS FOR ASSOCIATED WORK



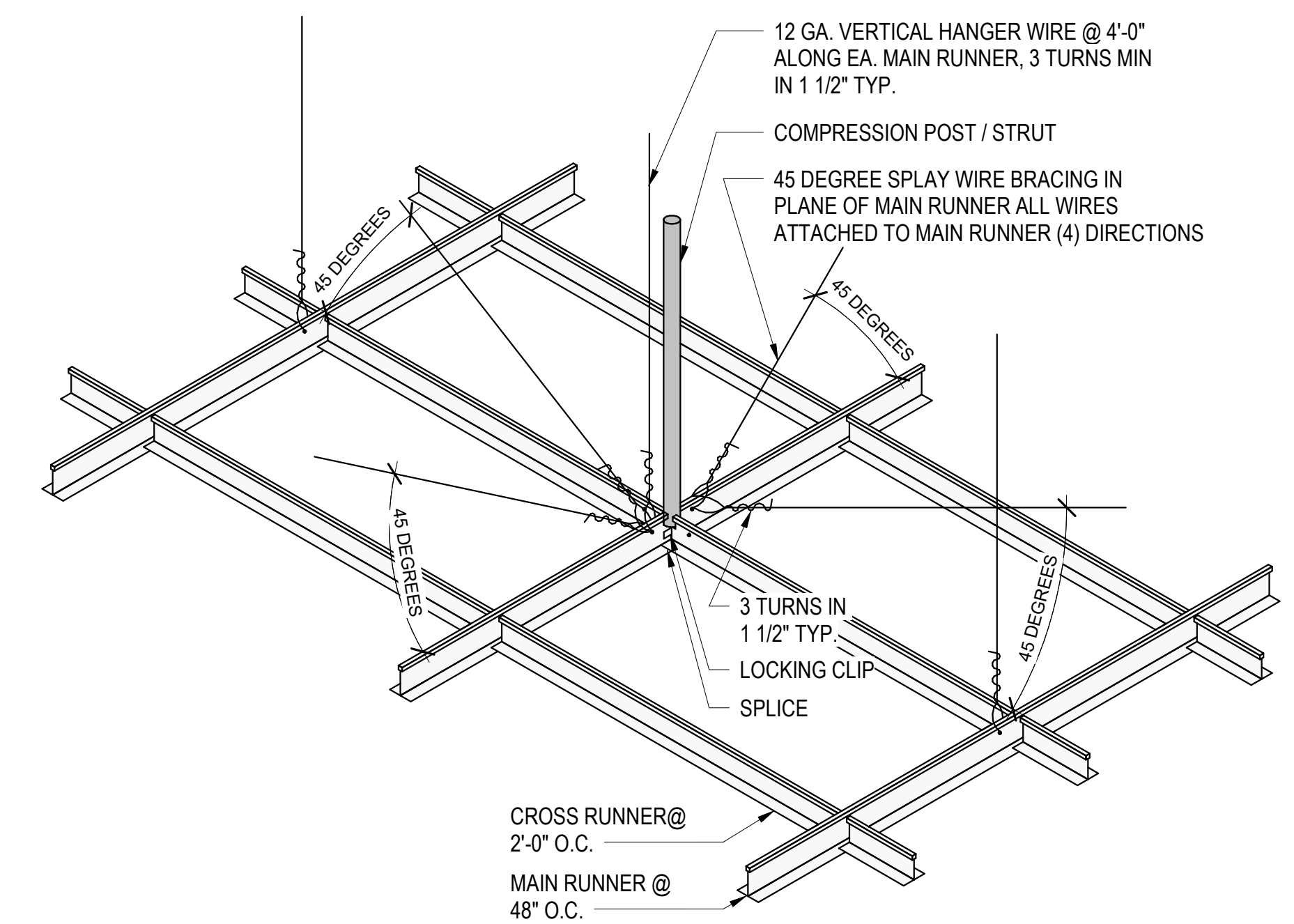
B5 W08 GWB CEILING DETAIL
1 1/2" = 1'-0"



B7 W03A WEST WALL SOFFIT DETAIL
1 1/2" = 1'-0"



F1 MEZZANINE REFLECTED CEILING PLAN
1/8" = 1'-0"



D7 LATERAL SEISMIC BRACE DETAIL FOR SUSPENDED CEILING
1 1/2" = 1'-0"

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ARCHITECT/ENGINEER OF RECORD Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elkhorst, Nebraska 68023 Phone: 402.291.6941 Fax: 402.291.9193		IMEG IMEG Corp. 45 Sumner Drive, Suite 104 St. Louis, MO 63143 Phone: (314) 954-2534		STAMP 	Office of Construction and Facilities Management 	Drawing Title RCP & MEZZ CEILING DETAILS Phase BID SET	Project Title RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS Location HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201	Project Number 589A4-20-158 Building Number 14 Drawing Number AC102 Dwg. # 46 of 94
BID SET 03/24/2021 Revisions: Date:		incandescence life safety a fire protection engineering firm Incandescence Life Safety, Inc. 2025 Douglas Court, #400, Denver, CO 80210 Phone: (720) 722-8010		Approved: Drawn TJF		FULLY SPRINKLERED	Issue Date 03/24/2021 Checked AHT	

**GENERAL NOTES
FINISH PLAN:**

- REFER TO G-002 FOR GENERAL ARCHITECTURAL NOTES.
- SEE SHEET AF501 FOR FLOOR TRANSITION DETAILS.
- SEE SHEET AE02 FOR SIGN MOUNTING HEIGHTS AND LOCATIONS.
- SEE SHEET AE01 FOR COLOR SCHEDULE AND ROOM FINISH SCHEDULE.
- FLOOR STRIPING SHOWN TO BE 2" WIDE SELF-ADHESIVE TAPE. COORDINATE W/ COR FOR FACILITY STANDARD.
- CONTR. TO COORDINATE W/ COR FOR FINAL COLORS LOCATIONS AND LAYOUTS OF FLOOR STRIPING.

**FINISH PLAN
SHEET NOTES:** (X)

- 2" WIDE YELLOW/BLACK FLOOR STRIPING TAPE TO DENOTE AREA TO BE KEPT CLEAR IN FRONT OF FIRE EXIT AND STAIRS.
- 2" WIDE ORANGE FLOOR STRIPING TAPE TO DENOTE AREA TO BE KEPT 3'-0" CLEAR IN FRONT OF ELECTRICAL EQUIPMENT.
- 2" WIDE YELLOW/BLACK FLOOR STRIPING TAPE TO DENOTE AREAS FOR OPEN AREA STORAGE / AISLEWAYS TO BE KEPT CLEAR.
- 2" WIDE YELLOW/BLACK FLOOR STRIPING TAPE TO DENOTE AREAS TO BE KEPT CLEAR IN FRONT OF MATERIAL LIFT.
- 2" WIDE YELLOW/BLACK FLOOR STRIPING TAPE TO DENOTE AREA TO BE KEPT CLEAR IN FRONT OF CANTILEVERED SAFETY GATE.
- 2" WIDE YELLOW/BLACK FLOOR STRIPING TAPE TO DENOTE AREA TO BE KEPT CLEAR IN FRONT OF MATERIAL LIFT EQUIPMENT DOOR.

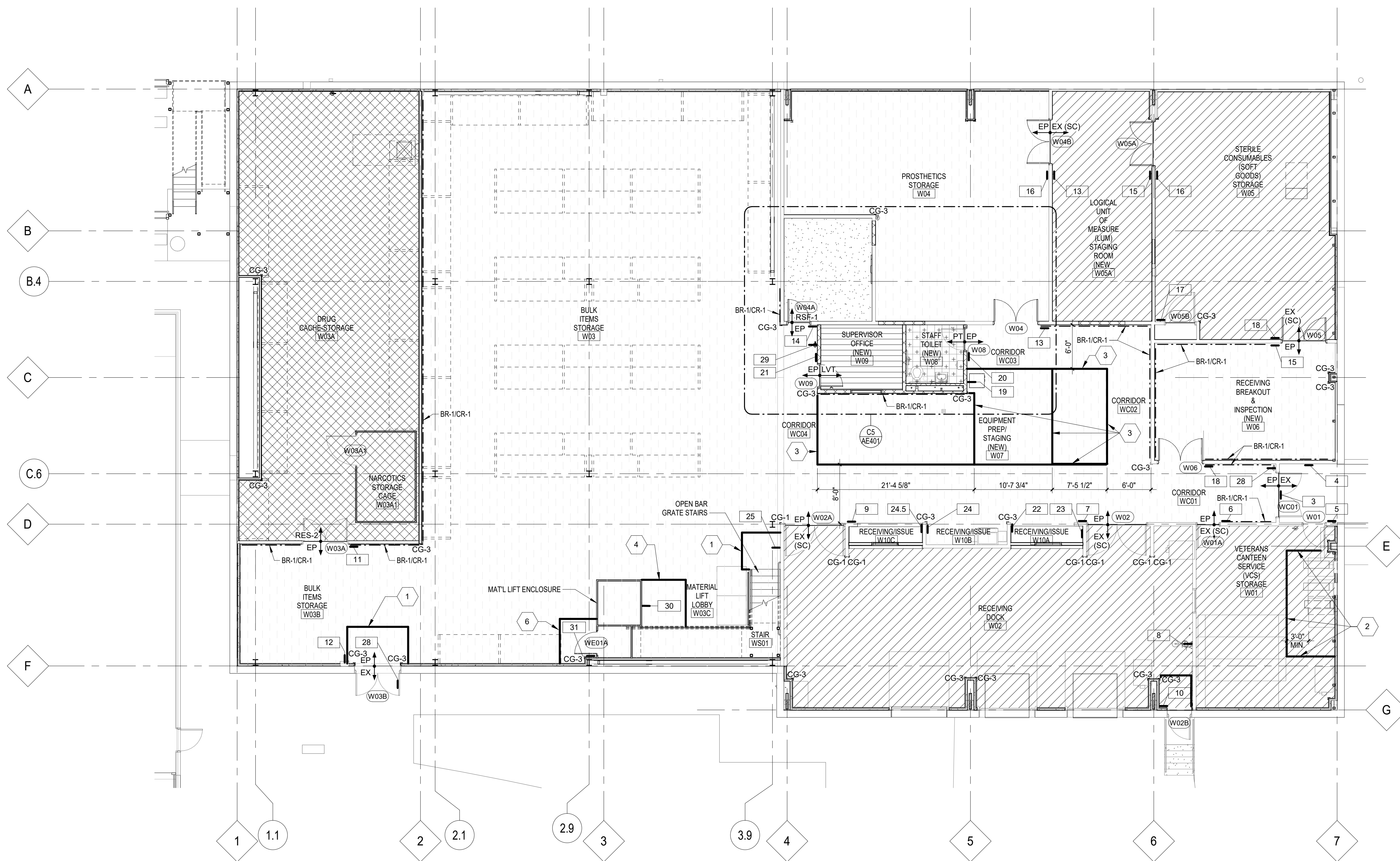
**INTERIOR FINISH
PLAN LEGEND**

	LVT-1
	PT-1
	RSF-1
	RES-2
	EXISTING FLOOR FINISH TO REMAIN
	EP- EPOXY PAINT w/ NON-SLIP AGGREGATE
	SC-1 - SEALED CONCRETE w/ COLORED HARDENER
	SIGNAGE - SEE SIGNAGE SCHEDULE & DETAILS
	BUMPER / CRASH RAIL
	CG- CORNER GUARD

SEE COLOR SCHEDULE FOR FINISH CODES
SEE ROOM FINISH SCHEDULE FOR FINISHES NOT IDENTIFIED ON PLAN

**BID ITEMS & DEDUCT
ALTERNATES:**

- REFER TO SECTION 01 00 00 FOR STATEMENT OF BID ITEMS
- BID ITEM #1. GENERAL CONSTRUCTION. BASE BID:** Renovate Warehouse for Pandemic Preparedness. Includes all scope communicated in the drawings and specifications.
 - Work includes general construction, alterations, walks, grading, drainage, necessary removal of existing structures and construction of certain other items.
 - BID ITEM #2. Renovate Warehouse for Pandemic Preparedness:** Includes all scope described in Bid Item #1 - excluding Bid Deduct #1 described below:
 - Work associated with new Material LR WED1.
 - Work associated with construction and finishes for new Rooms W08 and W09 (Demolition of existing Rooms W07, W08 and W09, including plumbing, fixtures and finishes in Room W08 will be retained in Base Bid).
 - Work associated with installation of new ceilings and finishes in Rooms W04, W05A and W06.
 - Demolition and renovation of work counters at Rooms W10A and W10C.



1 FINISH & SIGNAGE PLAN
1/8" = 1'-0"

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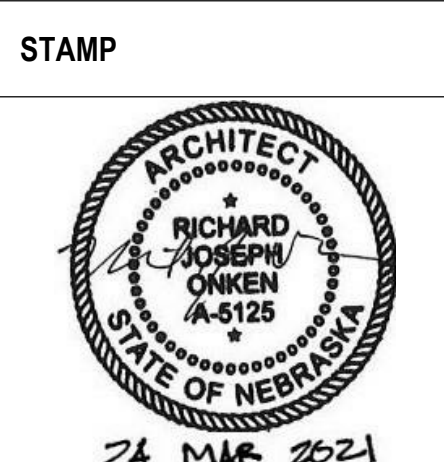
BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Phone: (303) 722-8010

incandescence life safety
a fire protection engineering firm



Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	FIRST FLOOR FINISH & SIGNAGE PLAN
Phase	BID SET
Approved:	

Project Title	RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS
Location	HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201
Issue Date	03/24/2021
Checked	AHT
Drawn	TJF
Project Number	589A4-20-158
Building Number	14
Drawing Number	AF101
	Dwg. # 47 of 94

Project Title	RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS
Location	HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201
Issue Date	03/24/2021
Checked	AHT
Drawn	TJF
Project Number	589A4-20-158
Building Number	14
Drawing Number	AF101
	Dwg. # 47 of 94

**GENERAL NOTES
FINISH PLAN:**

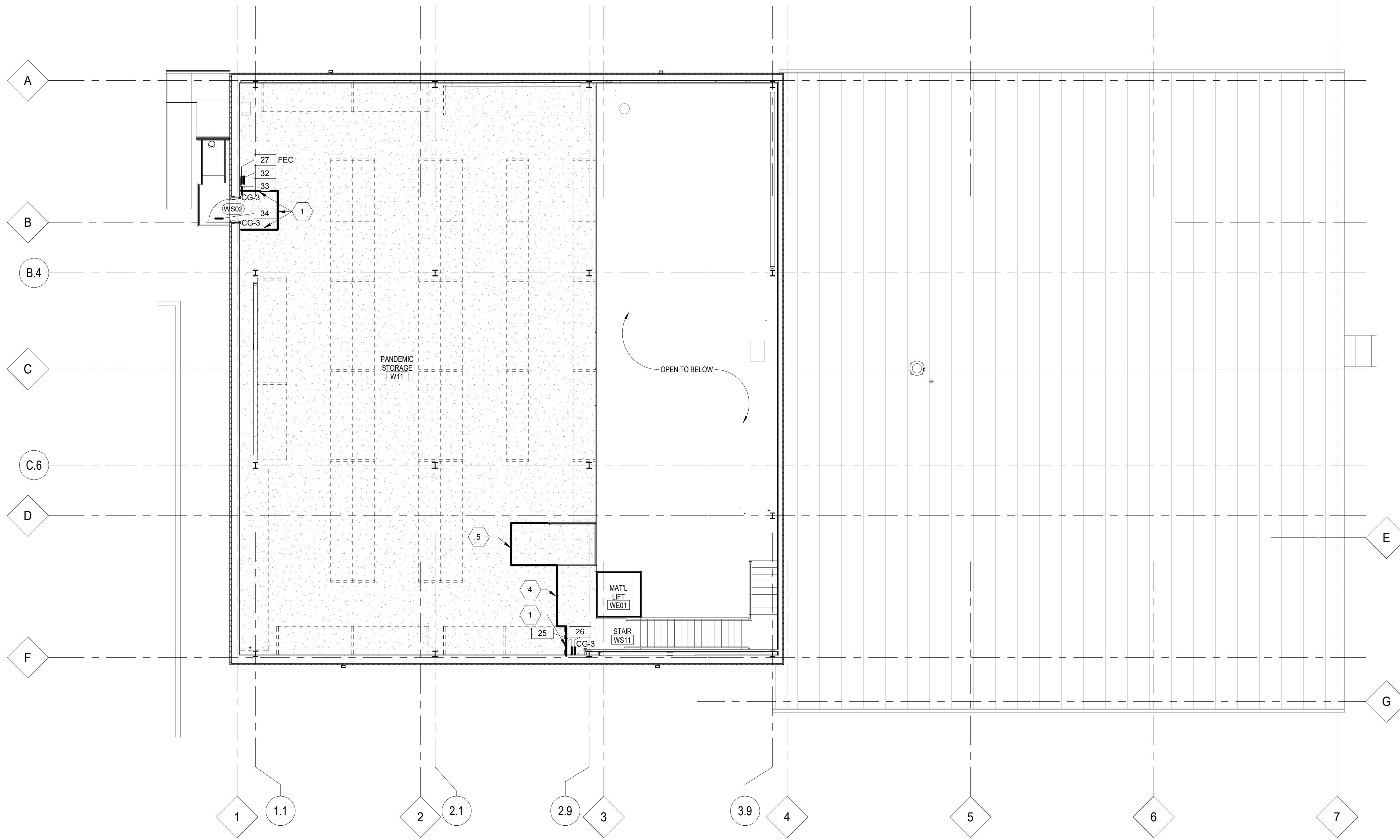
1. SEE SHEET AF101 FOR FINISH PLAN GENERAL NOTES.

**FINISH PLAN
SHEET NOTES:**

SEE SHEET AF101 FOR FINISH PLAN SHEET NOTE LEGEND.

**INTERIOR FINISH
PLAN LEGEND**

	LVT-1
	PT-1
	RSF-1
	RES-2
	EXISTING FLOOR FINISH TO REMAIN
	EP-EPOXY PAINT w/ NON-SLIP AGGREGATE
	SC-1 - SEALED CONCRETE W/ COLORED HARDENER
	SIGNAGE - SEE SIGNAGE SCHEDULE & DETAILS
	BUMPER / CRASH RAIL
	CG CORNER GUARD
SEE COLOR SCHEDULE FOR FINISH CODES	
SEE ROOM FINISH SCHEDULE FOR FINISHES NOT IDENTIFIED ON PLAN	



1 MEZZANINE FINISH & SIGNAGE PLAN
1/8" = 1'-0"

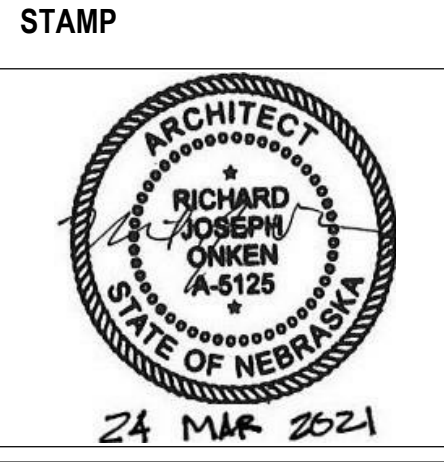
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BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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Incandescence Life Safety, Inc.
2025 Douglas Court, #400, Denver, CO 80216
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a fire protection engineering firm



Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

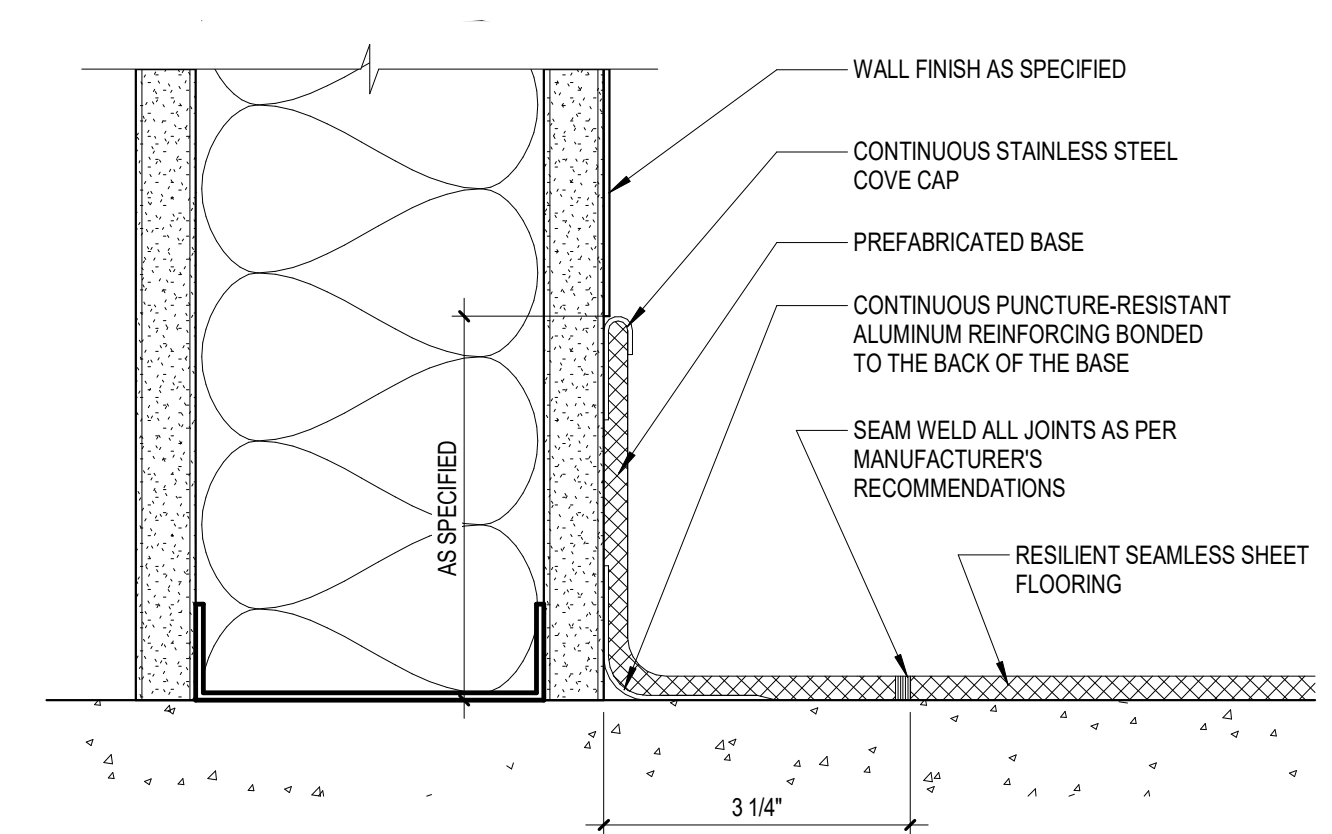
Drawing Title	MEZZANINE FINISH & SIGNAGE PLAN
Phase	BID SET
Approved:	

Project Title	RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS
Location	HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201
Issue Date	03/24/2021
Checked	AHT
Drawn	TJF

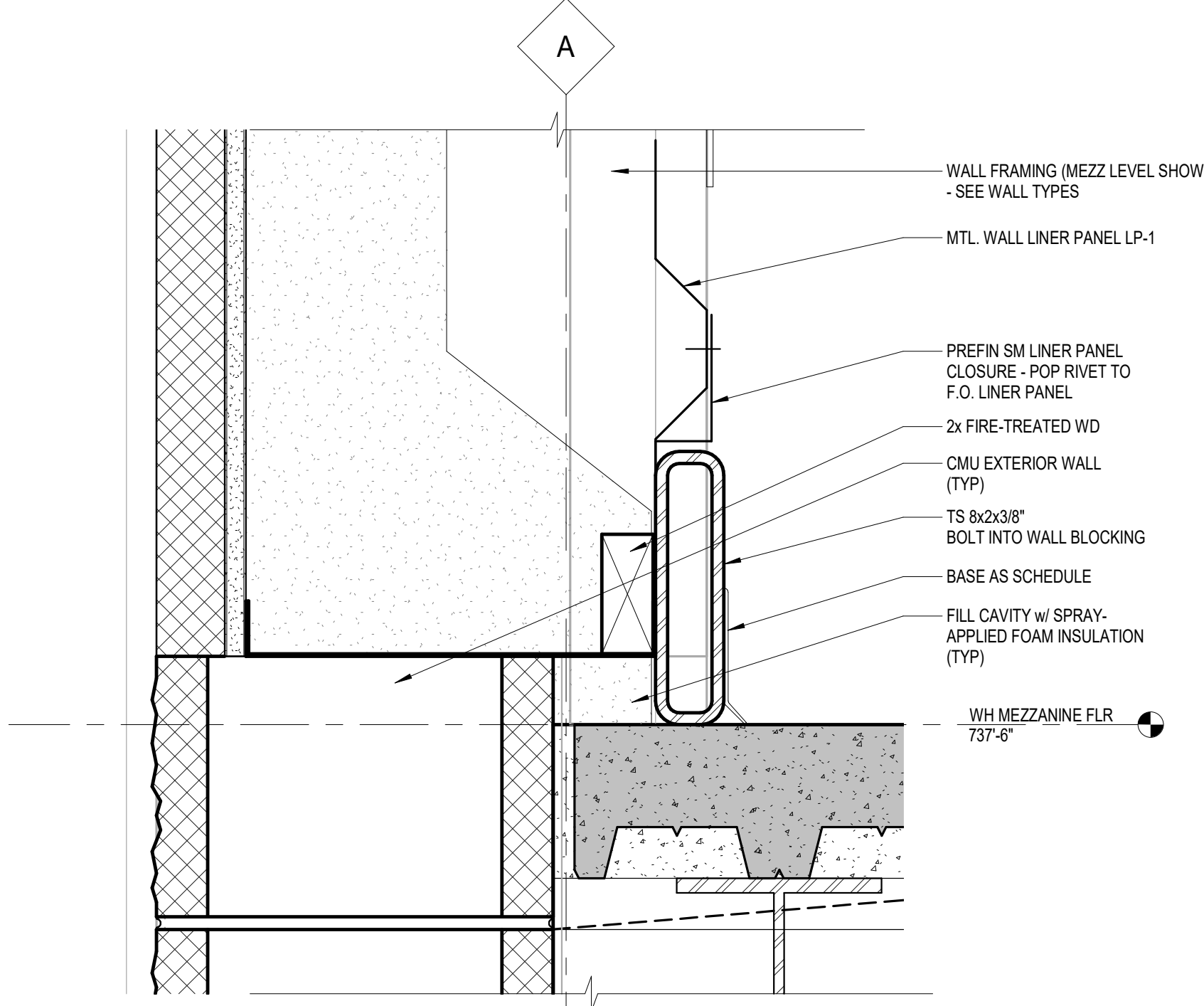
Project Number	589A4-20-158
Building Number	14
Drawing Number	AF102
	Dwg. # 48 of 94

**INTERIOR DETAILS
GENERAL NOTES:**

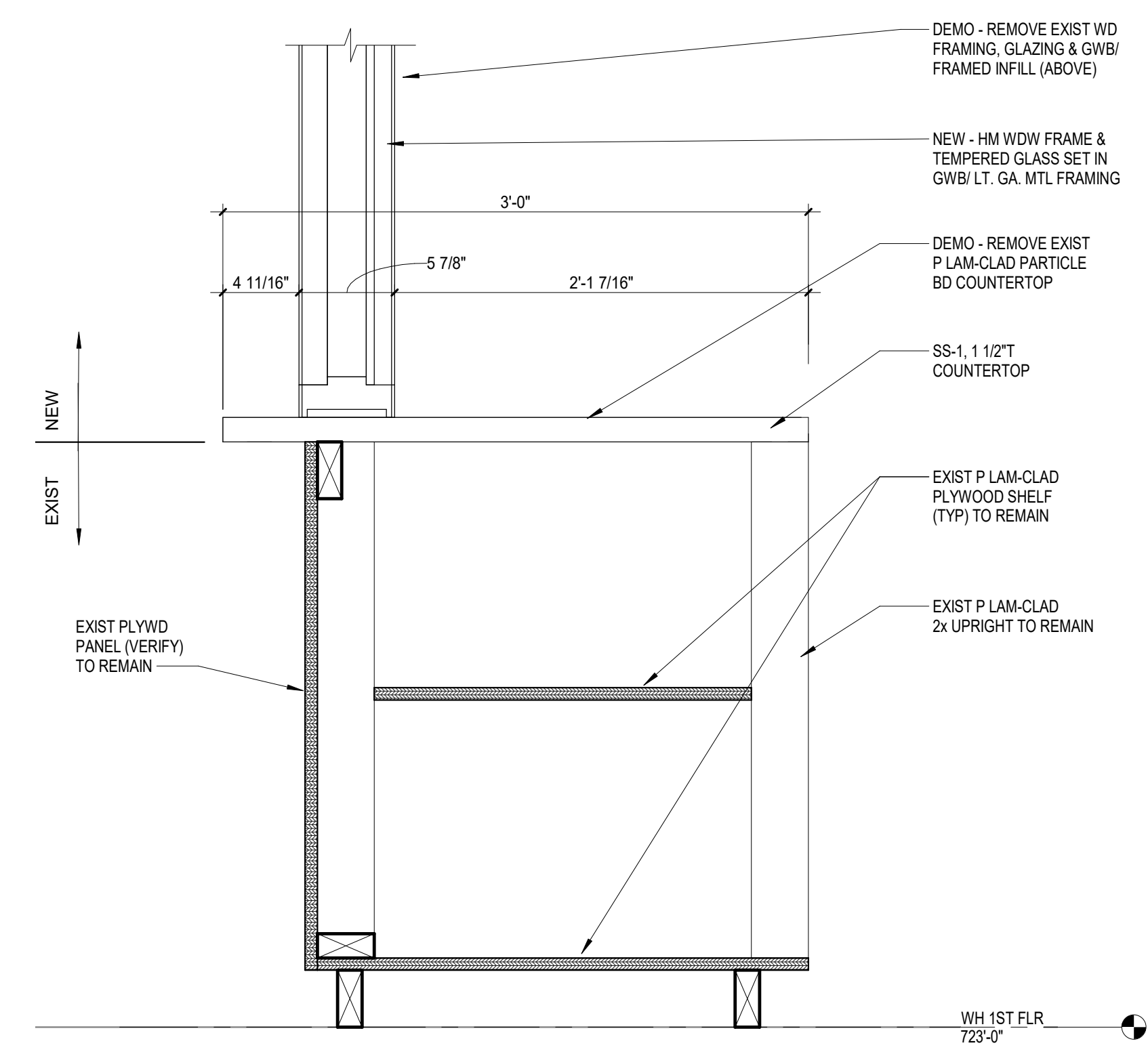
- REFER TO PHASING, DEMOLITION AND RENOVATION PLANS FOR REQUIREMENTS RELATED TO INTERIOR WORK.
- REFER TO COLOR SCHEDULE AND ROOM FINISH SCHEDULE ON SHEET A601 FOR INTERIOR AND EXTERIOR FINISH COLORS.
- REFER TO "TEMPORARY BARRIERS AND ENCLOSURES" NOTES ON SHEET G-002 FOR TEMPORARY ENCLOSURE, PROTECTION OF EXISTING UTILITIES AND PROTECTION OF THE BUILDING INTERIOR DURING DEMOLITION AND CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND CHANGES MADE TO THE BUILDING AND SITE SINCE THE PUBLISHED DATE OF THE CONSTRUCTION DOCUMENTS.



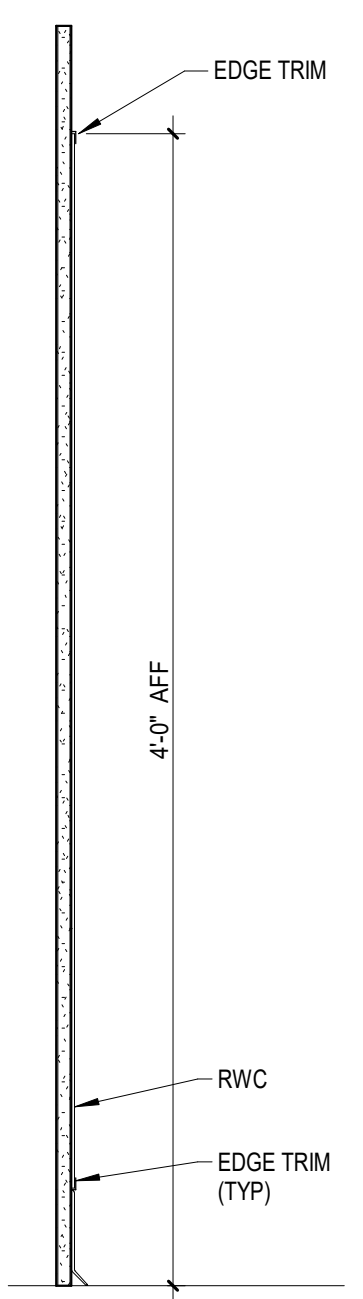
B1 RESILIENT SHEET FLOORING BASE DETAIL
6" = 1'-0"



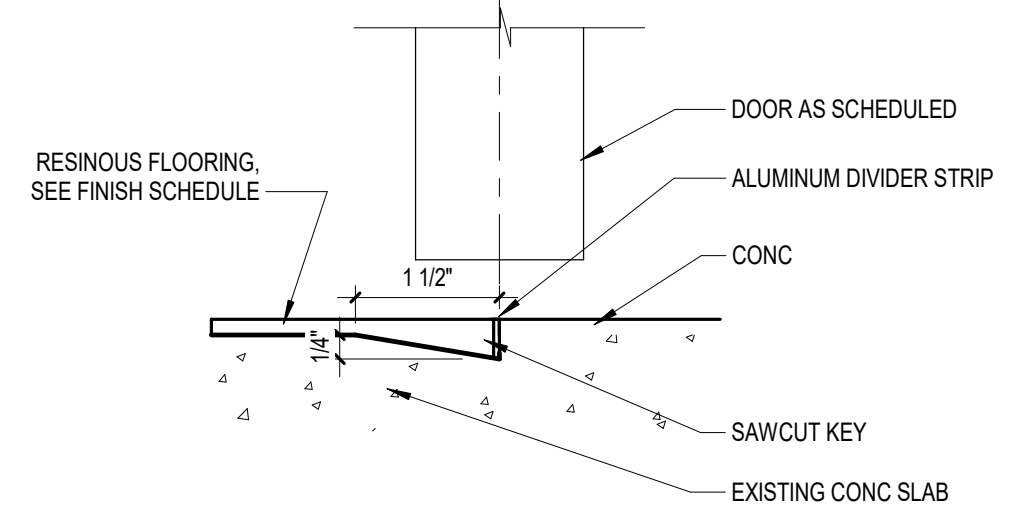
B4 WALL DETAIL
3" = 1'-0"



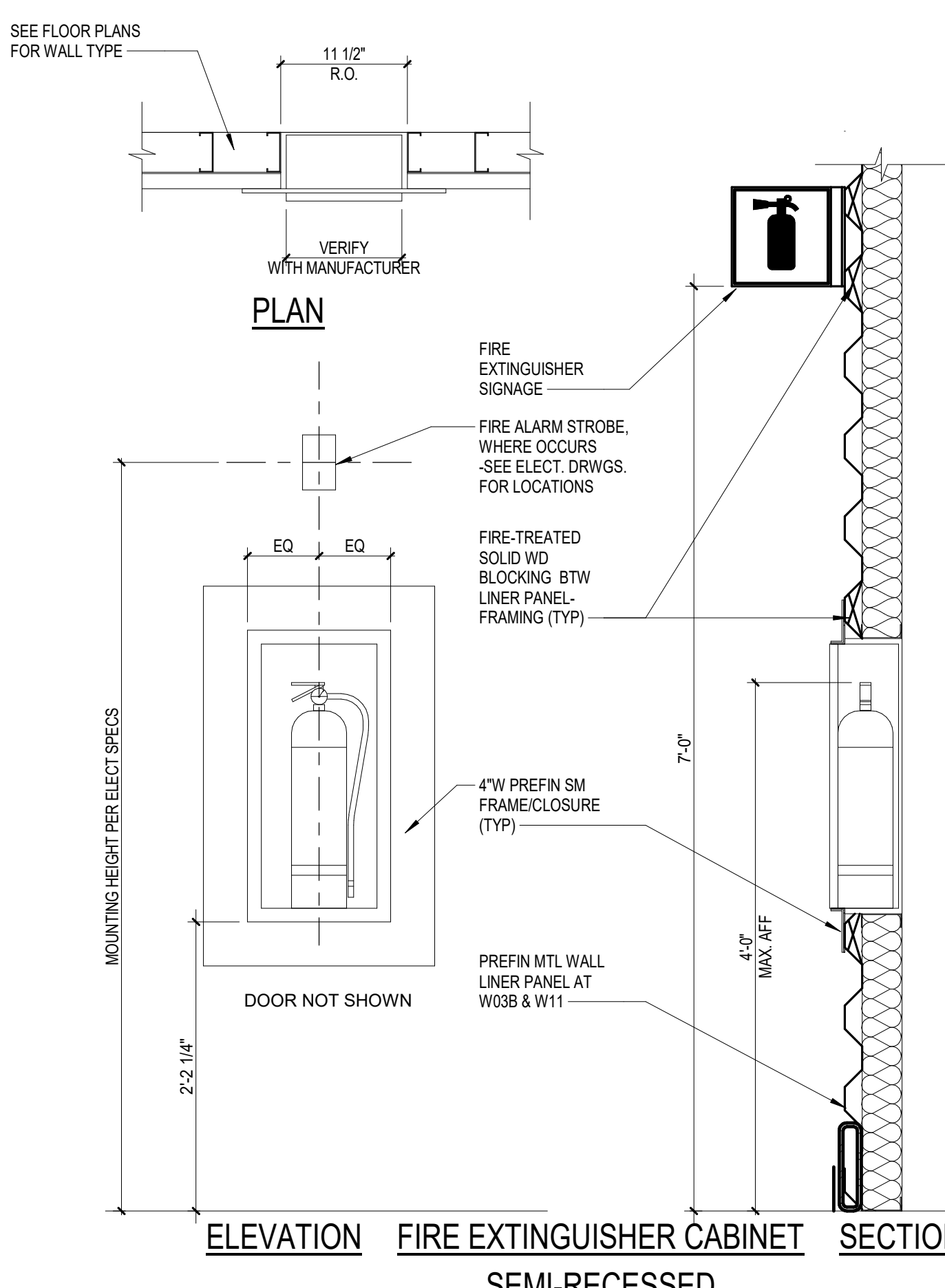
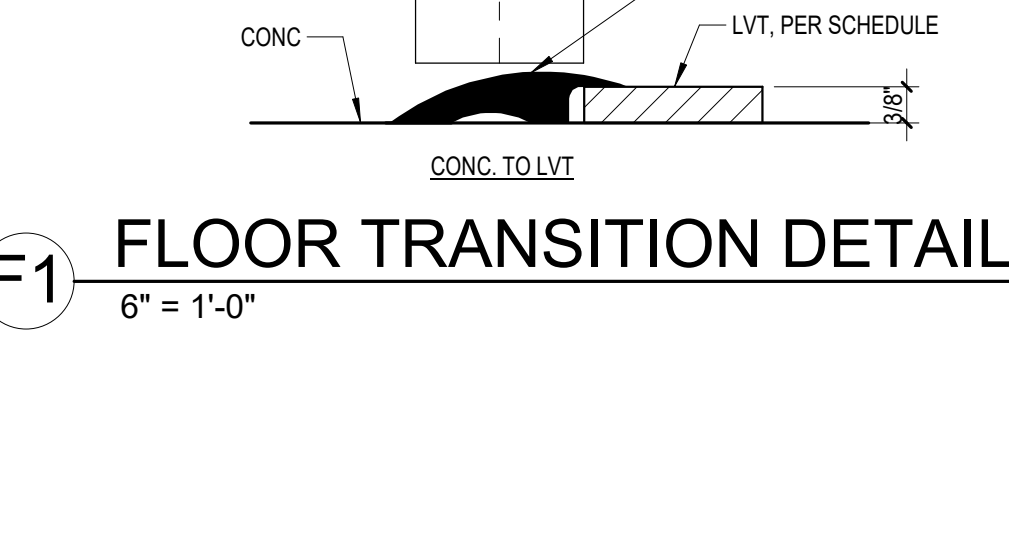
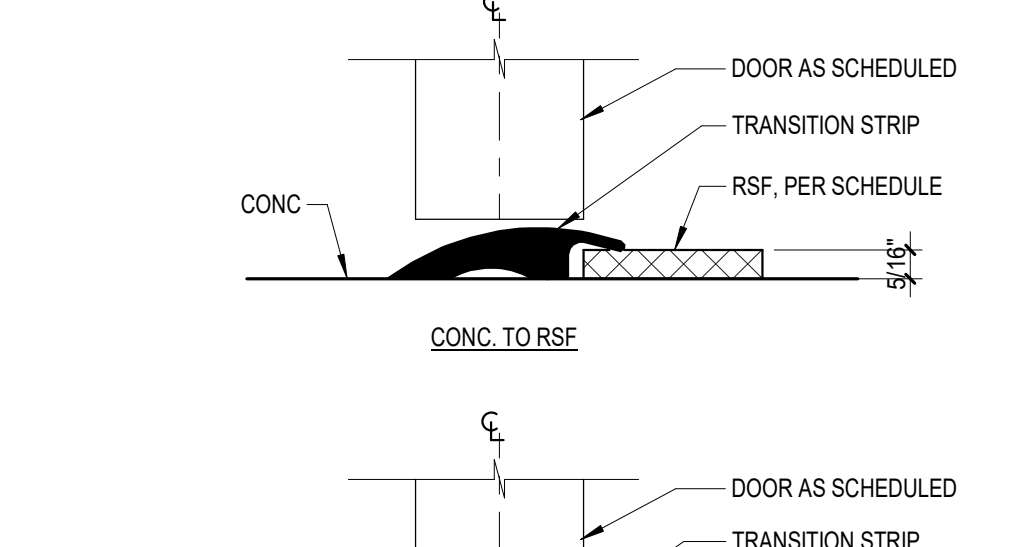
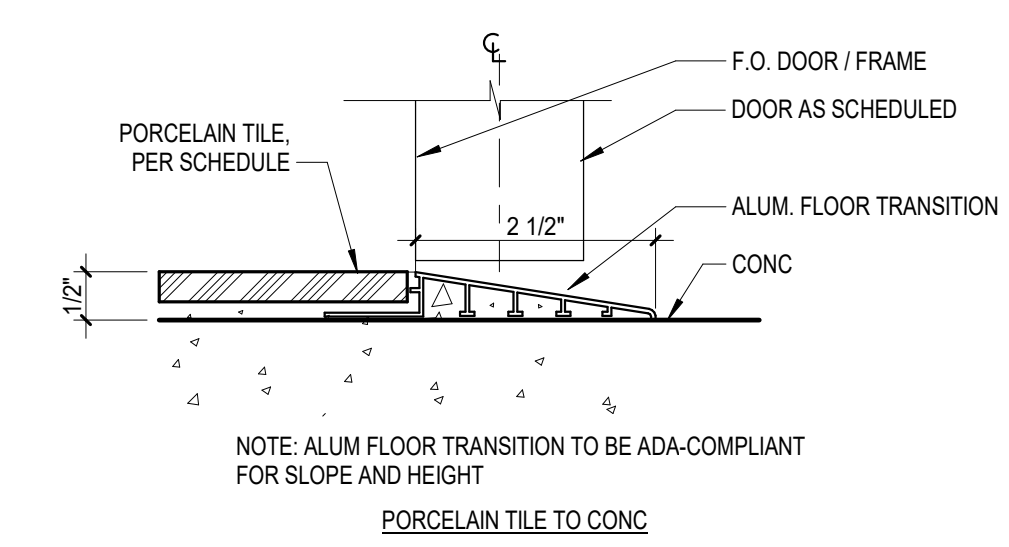
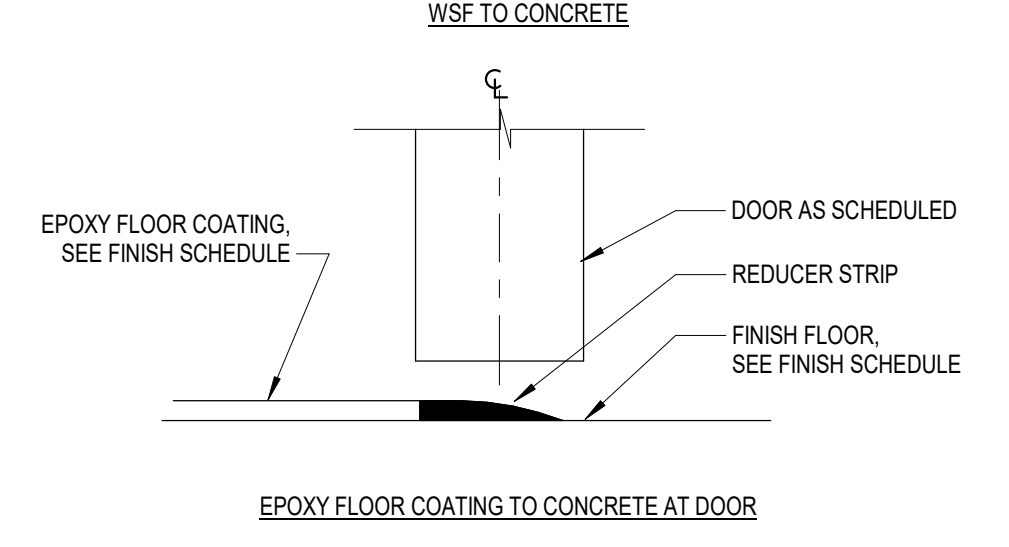
C6 WORK COUNTER DETAIL
1 1/2" = 1'-0"



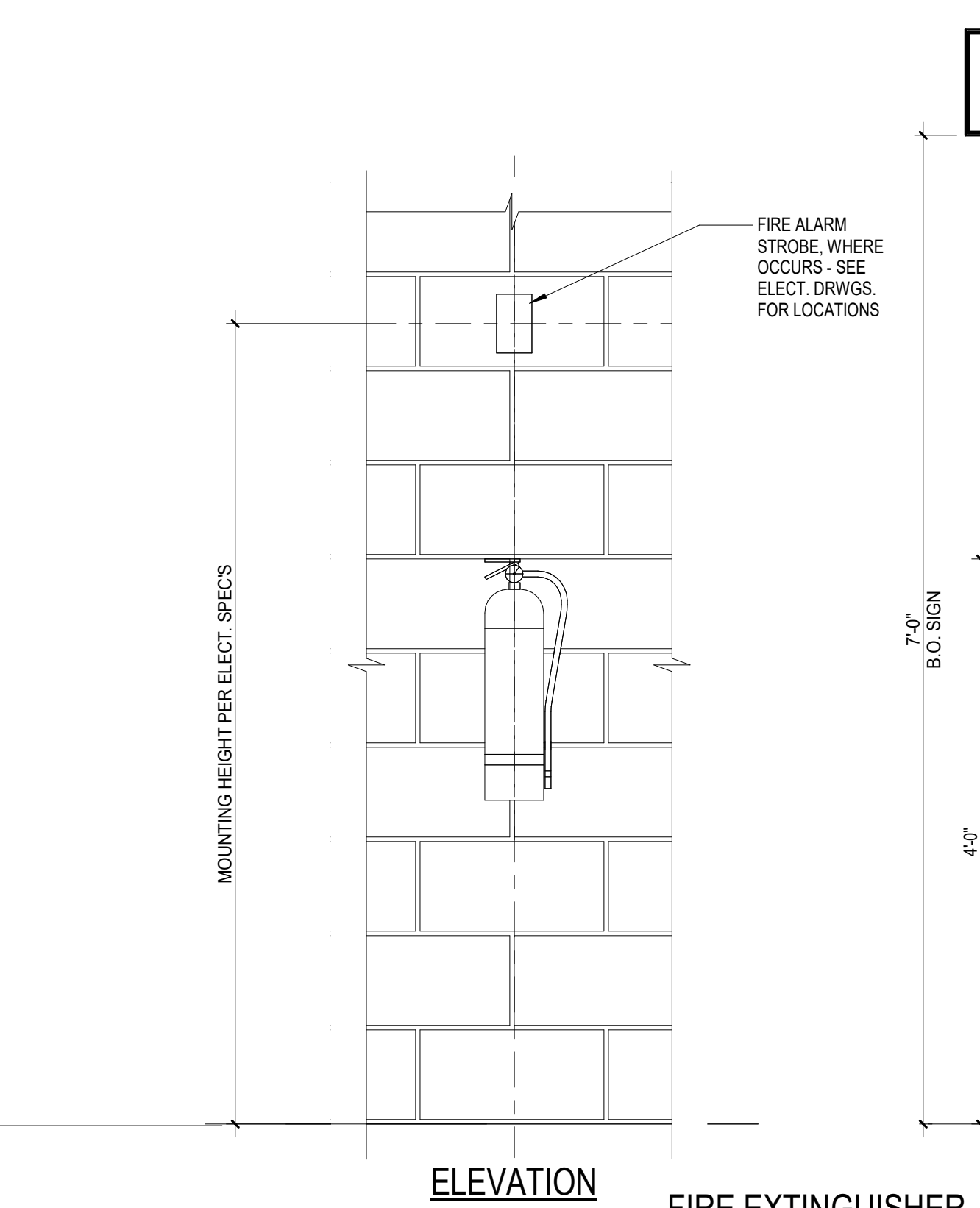
D9 RWC DETAIL
1 1/2" = 1'-0"



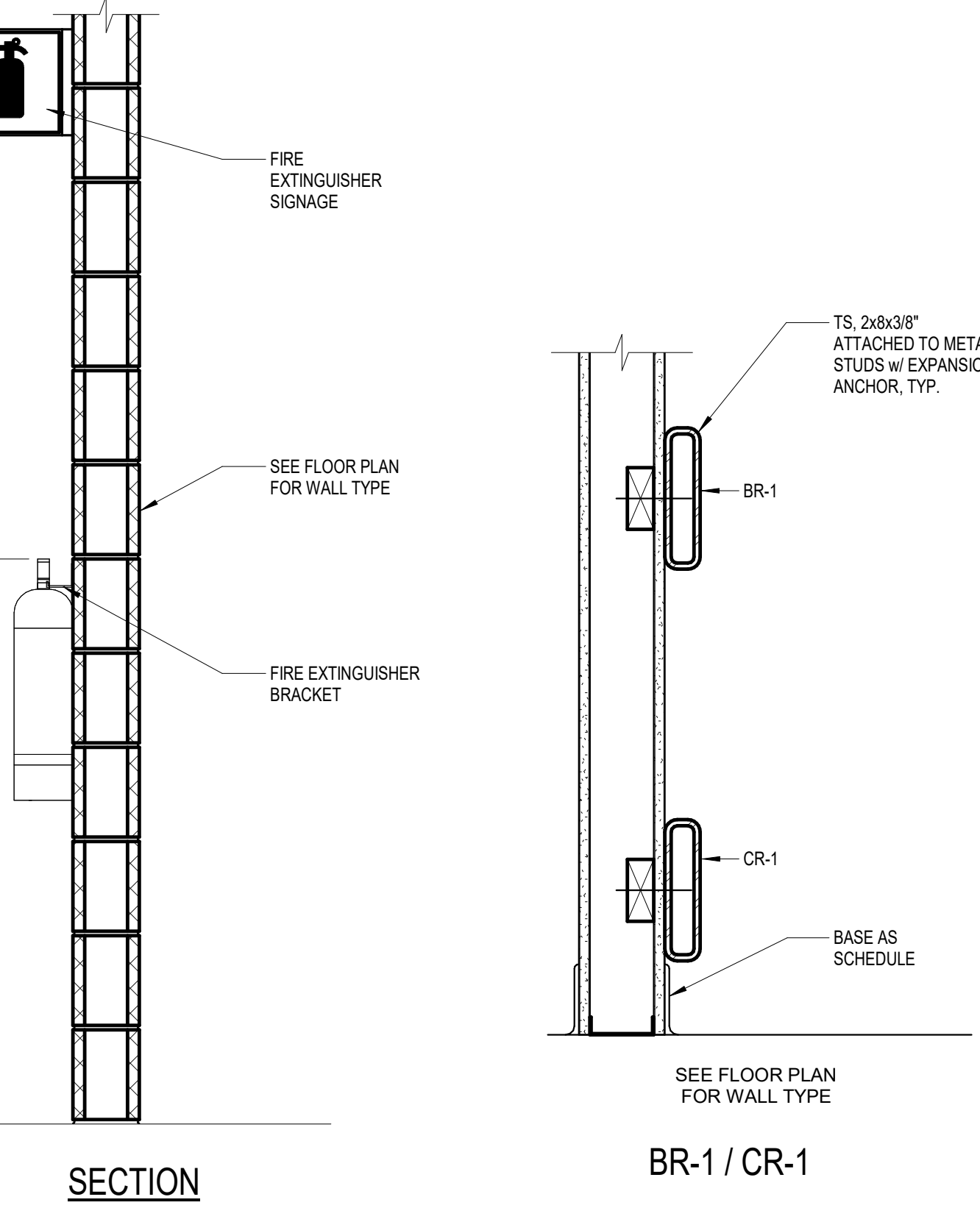
F1 FLOOR TRANSITION DETAILS
6" = 1'-0"



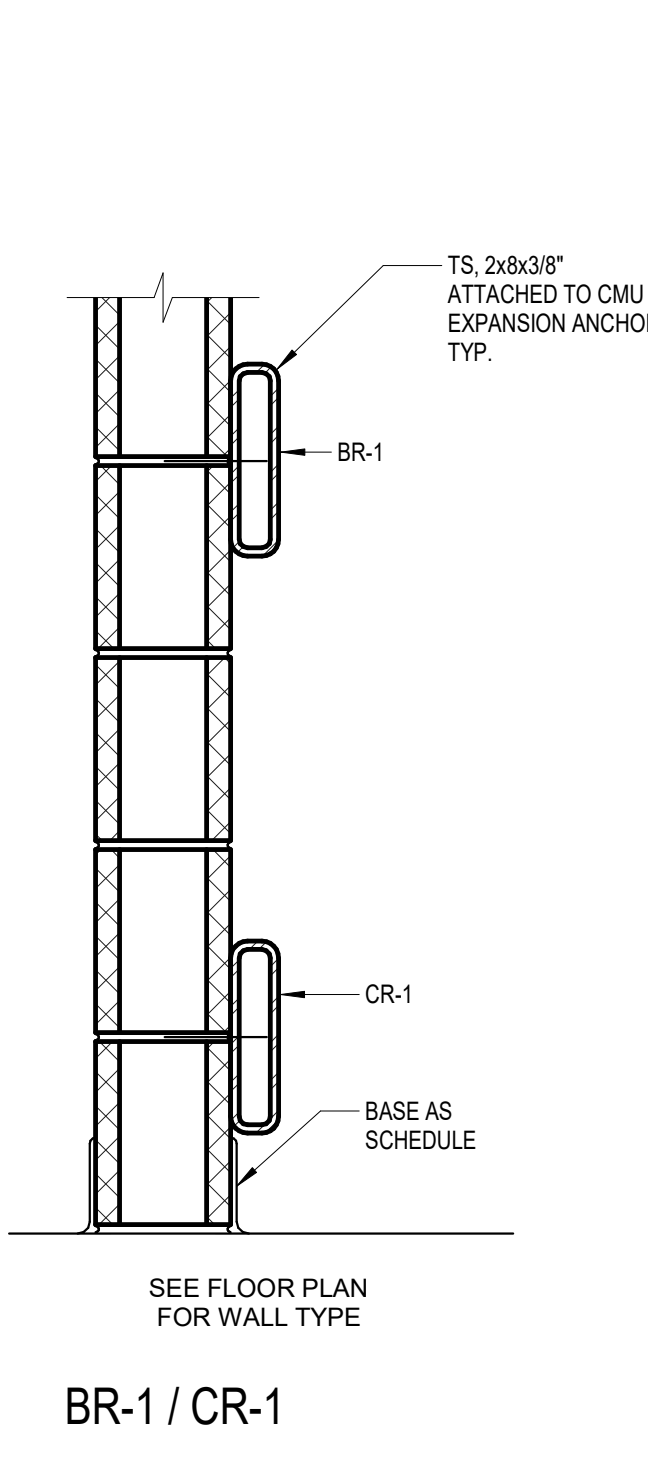
F3 FEC SEMI-RECESSED
1" = 1'-0"



F5 FE-MOUNT BRKT DTL (FE)
1" = 1'-0"



F7 BUMPER RAIL / CRASH RAIL
1 1/2" = 1'-0"



F9 CORNER GUARDS
3" = 1'-0"

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BID SET	03/24/2021
Revisions:	Date:

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ARCHITECT
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STATE OF NEBRASKA
24 MAR 2021

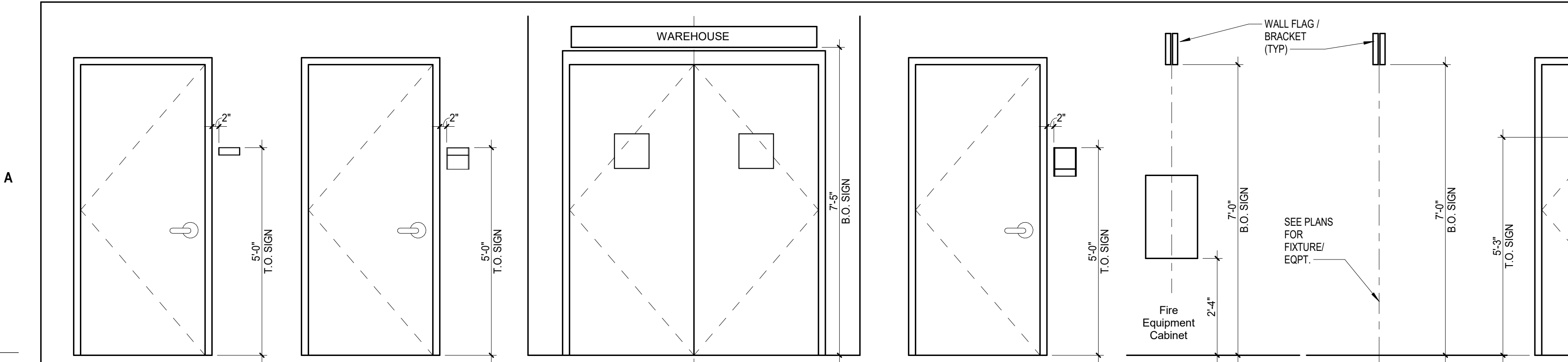
Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
INTERIOR FINISH DETAILS
Approved:

Phase
BID SET
FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS
Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**
Issue Date
03/24/2021
Checked
AHT
Drawn
TJF

Project Number
589A4-20-158
Building Number
14
Drawing Number
AF501
Dwg. # 49 of 94



Sign Type A
Room Identification Number only

Sign Type B, BB
Room Identification Service

Sign Type D
Department Identification sign

Sign Type E
Service Sign - Public

Sign Type F1
Fire Equipment Identification sign

Sign Types F#,K
Safety & Equipment Identification sign

Sign Type A,G,H
Stair Identification signs

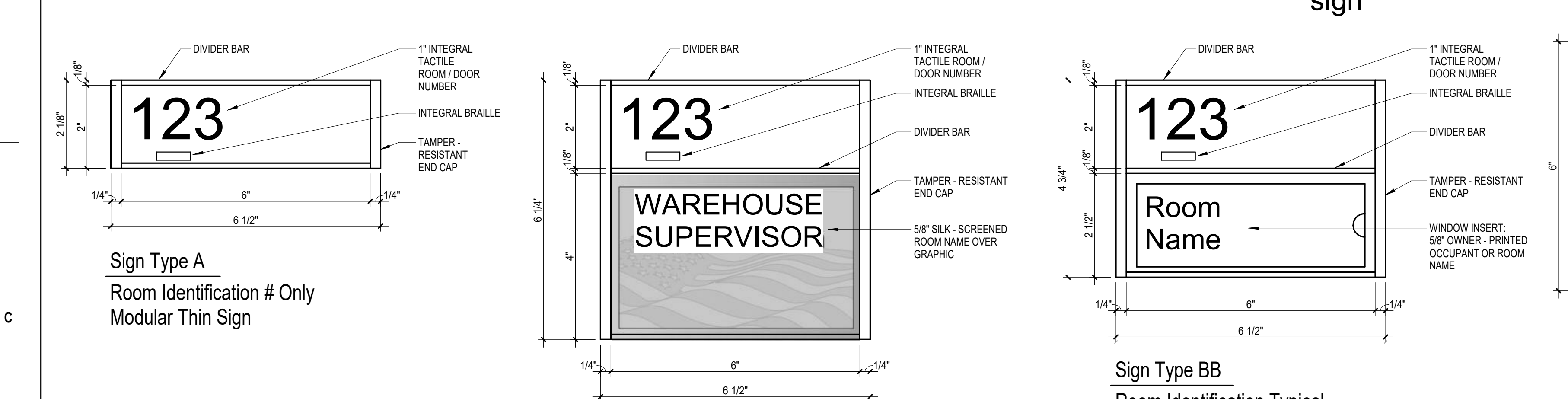
Sign Type A,J,H,L
Stair Identification signs

Sign Types J#,CB
Instructional signs

GENERAL NOTES SIGNAGE:

- REFER TO G-002 FOR GENERAL ARCHITECTURAL NOTES.
- SIGNAGE TO MATCH FACILITY STANDARDS AND COMPLY WITH THE VAS INTERIOR SIGN DESIGN GUIDE, MOST CURRENT EDITION. BASIS OF DESIGN: SIGNS, SLIDING RAIL FRAME INSERT AND FRAME COMPONENT SYSTEM AS PROVIDED BY CREATIVE SIGN SYSTEMS, INC. REFER TO SECTION 10 14 00 - SIGNAGE FOR ADDITIONAL SIGNAGE REQUIREMENTS.
- SEE SIGN ELEVATIONS FOR SIGNAGE LOCATION. REVIEW SIGNAGE SCHEDULE AND INTERIOR ELEVATIONS FOR ADDITIONAL DIRECTIONS.
- SEAL EDGES OF SIGNS WITH CLEAR SILICONE. TRIM AND SEAL TOP EDGE WITH TAMPER PROOF QUARTER ROUND ALUMINUM COLOR VINYL TRIM.
- EMERGENCY INSERTS TO BE RED UNLESS NOTED OTHERWISE.
- ALL EXISTING SIGNAGE TO BE REMOVED WITH THE EXCEPTION OF EMERGENCY EXIT SIGNS AND FIRE EXTINGUISHER SIGNS. COORDINATE LOCATION OF NEW SIGNS WITH EXISTING EMERGENCY EXIT SIGNS.
- CONTRACTOR TO COORDINATE WITH VA STAFF AND COR FOR FINAL SIGNAGE COPY ON EACH SIGN.

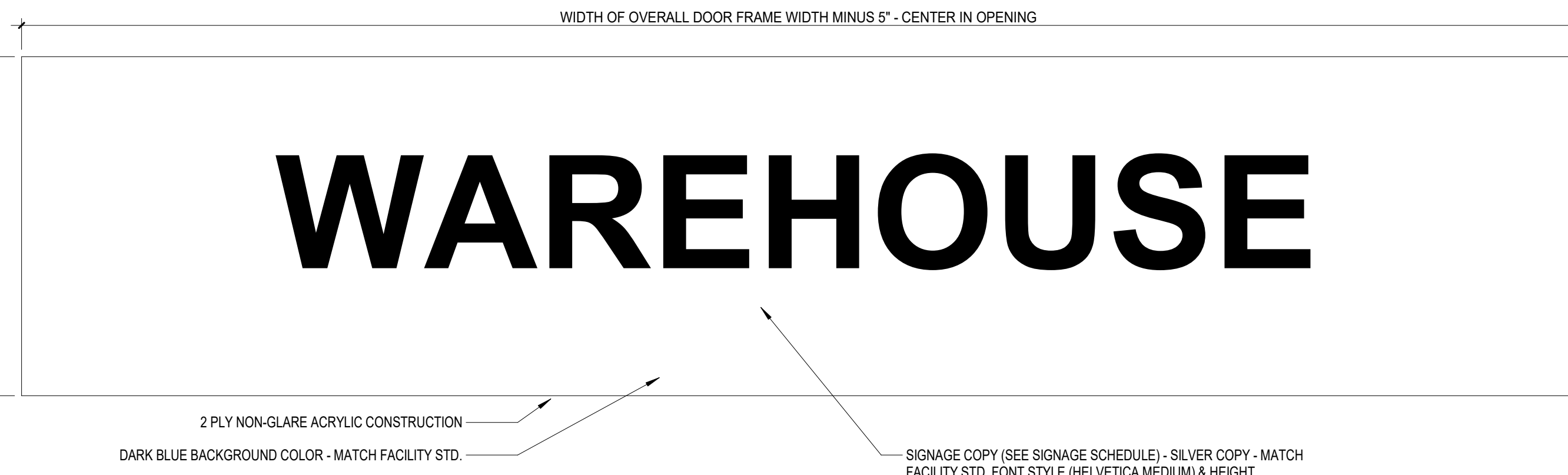
SIGNAGE SCHEDULE					
SIGN #	MOUNTING TYPE	ROOM/DOOR NO.	ROOM NAME	SIGNAGE COPY	SIGNAGE TYPE
1	FLAG	(TBD)	(TBD)	PICTOGRAM - AED	F3
2	WALL	-	TEMPORARY CONST BARRIER	CONSTRUCTION AREA - DANGER - AUTHORIZED PERSONNEL ONLY	CB1
3	OVERHEAD-WALL	CB2C	CORRIDOR	WAREHOUSE	D
4	WALL	CB2C	CORRIDOR	DIAL 5XXXX FOR ACCESS	J1
5	WALL	W01	VCS STORAGE	W01 - VCS STORAGE	B
6	WALL	W01A	VCS STORAGE	W01 - VCS STORAGE	B
7	WALL	W02	RECEIVING DOCK	W02	A
8	FLAG	W02	RECEIVING DOCK	PICTOGRAM - EMERGENCY EYE WASH - SHOWER	F2
9	WALL	W02A	RECEIVING DOCK	W02A	A
10	WALL	W02B	RECEIVING DOCK	EMERGENCY EXIT ONLY	H
11	WALL	W03A	DRUG CACHE	W03A - DRUG CACHE	B
12	FLAG	W03B	WAREHOUSE	EMERGENCY EXIT ONLY	H
13	WALL	W04	PROSTHETICS STORAGE	W04 - PROSTHETICS STORAGE	B
14	WALL	W04A	STAFF LOUNGE	W04A - STAFF LOUNGE	B
15	WALL	W05	STERILE CONSUMABLE GOODS	W05 - STERILE CONSUMABLE GOODS	B
16	WALL	W05A	LOGICAL UNIT OF MEASURE STAGING ROOM	W05A - LOGICAL UNIT OF MEASURE STAGING	B
17	WALL	W05B	OIT CLOSET	W05B	A
18	WALL	W06	RECEIVING BREAKOUT & INSPECTION	W06 - RECEIVING BREAKOUT & INSPECTION	B
19	FLAG	W07	EQUIPMENT PREP-STAGING	PICTOGRAM - DRINKING FOUNTAIN	F3
20	WALL	W08	STAFF TOILET	W08 - UNISEX - M/FWC PICTOGRAM	E
21	WALL	W09	SUPERVISOR OFFICE	W09 - WAREHOUSE SUPERVISOR	B
22	WALL	W10A	RECEIVING/ISSUE	W10A - RECEIVING / ISSUE	BB
23	WALL	W10A	RECEIVING/ISSUE	W10A - RECEIVING / ISSUE	J2
24	WALL	W10B	RECEIVING/ISSUE	W10A - RECEIVING / ISSUE	BB
24.5	WALL	W10C	RECEIVING/ISSUE	W10C - RECEIVING / ISSUE	BB
25	FLAG	W11	PANDEMIC STORAGE	STAIR PICTOGRAM	K
26	FLAG	W11	PANDEMIC STORAGE	FIRE EXTINGUISHER PICTOGRAM	F1
27	FLAG	W11	PANDEMIC STORAGE	FIRE EXTINGUISHER PICTOGRAM	F1
28	FLAG	WC01	CORRIDOR	FIRE EXTINGUISHER PICTOGRAM	F1
29	FLAG	WC04	CORRIDOR	FIRE EXTINGUISHER PICTOGRAM	F1
30	WALL	WE01	MATERIAL LIFT	MEZZANINE WEIGHT CAPACITY NOT TO EXCEED 125 LBS PER SQUARE FOOT	J3
31	WALL	WE01A	MATERIAL LIFT EOPT	W01A	A
32	WALL	WS02	EXIT STAIR	WS02	A
33	WALL	WS02	EXIT STAIR	EMERGENCY EXIT ONLY	H
34	DOOR	WS02	EXIT STAIR	NO RE-ENTRY	G



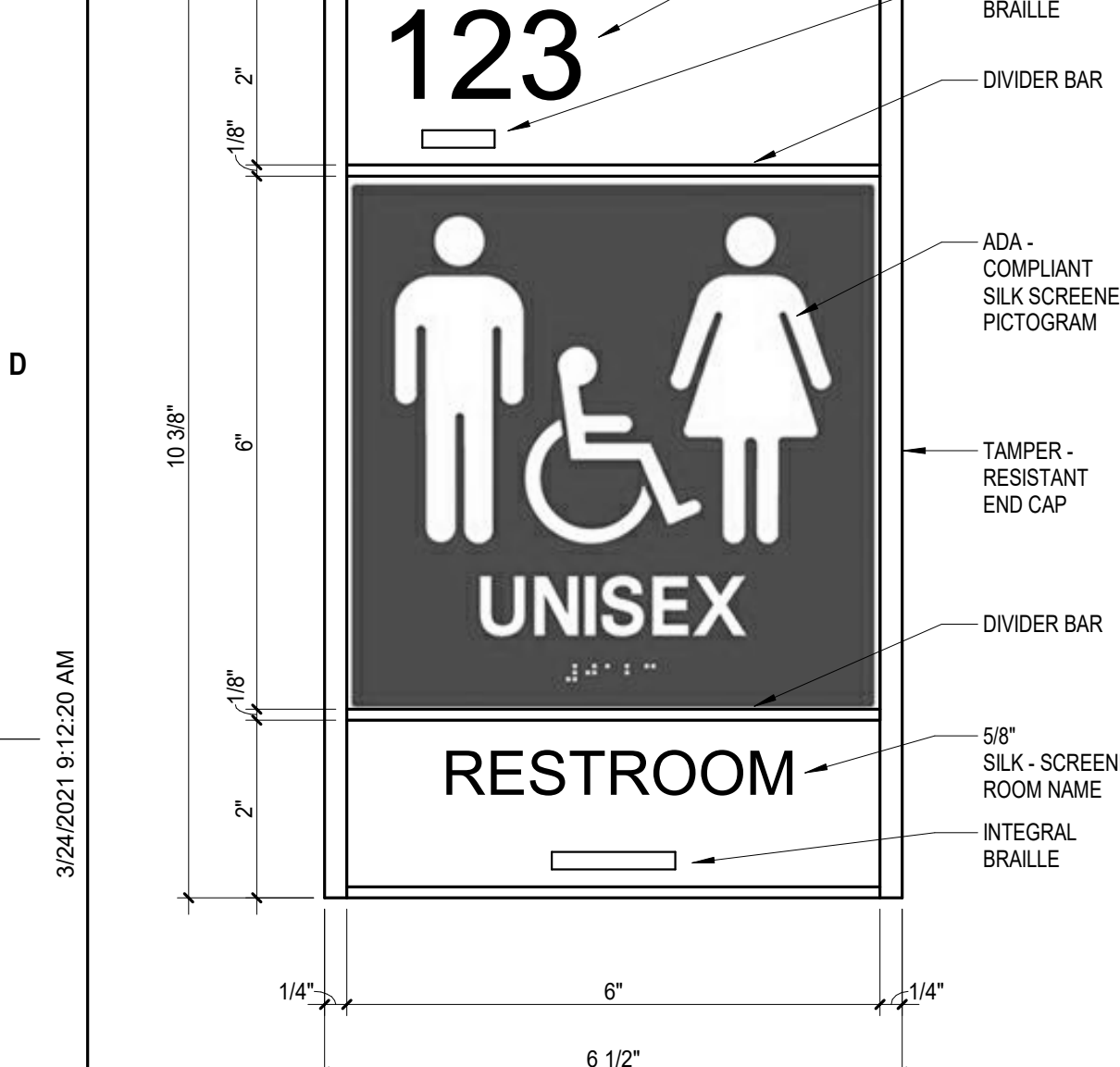
Sign Type A
Room Identification # Only Modular Thin Sign

Sign Type B
Room Identification Typical Modular Thin Sign

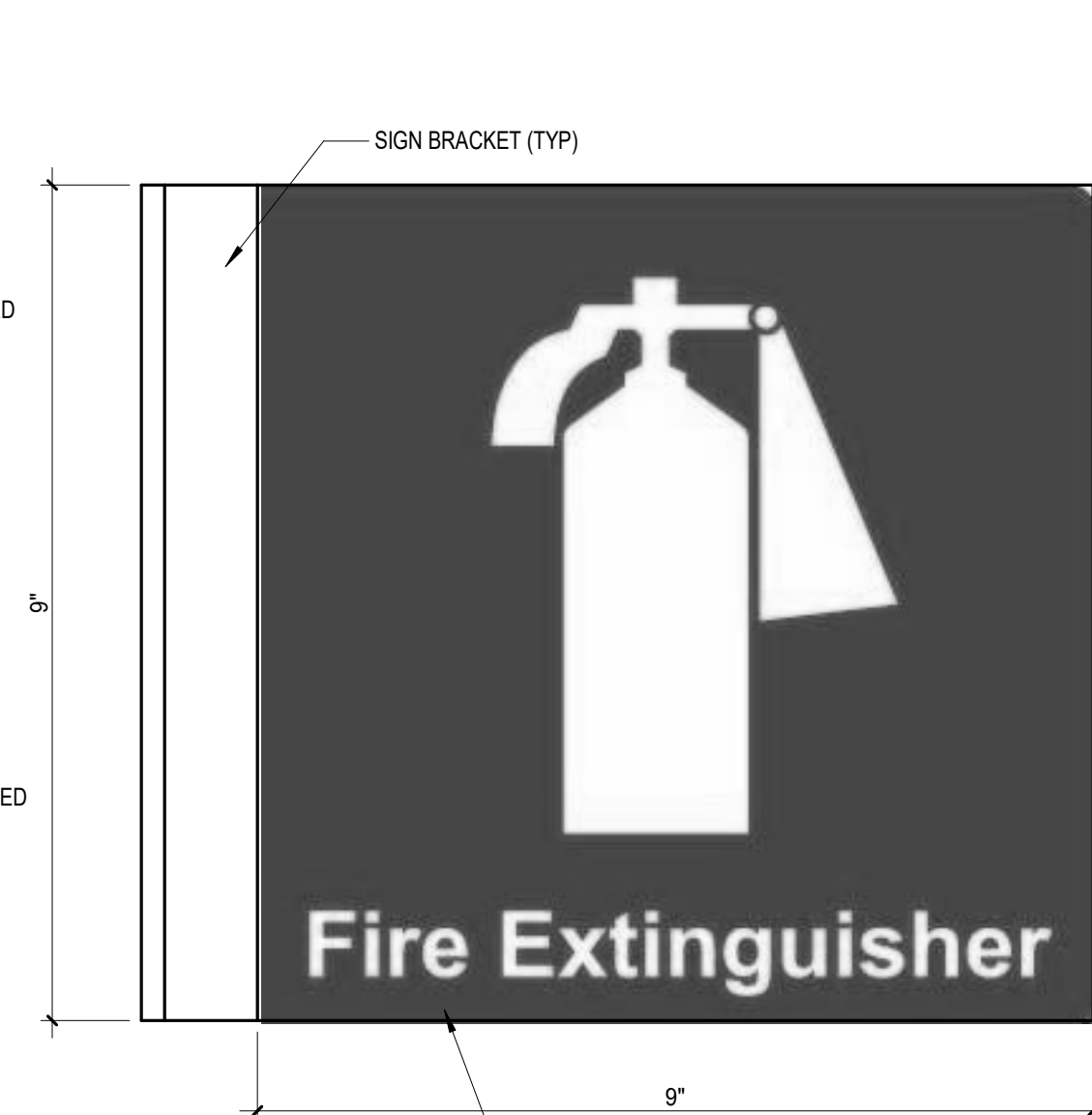
Sign Type BB
Room Identification Typical Modular Thin Sign



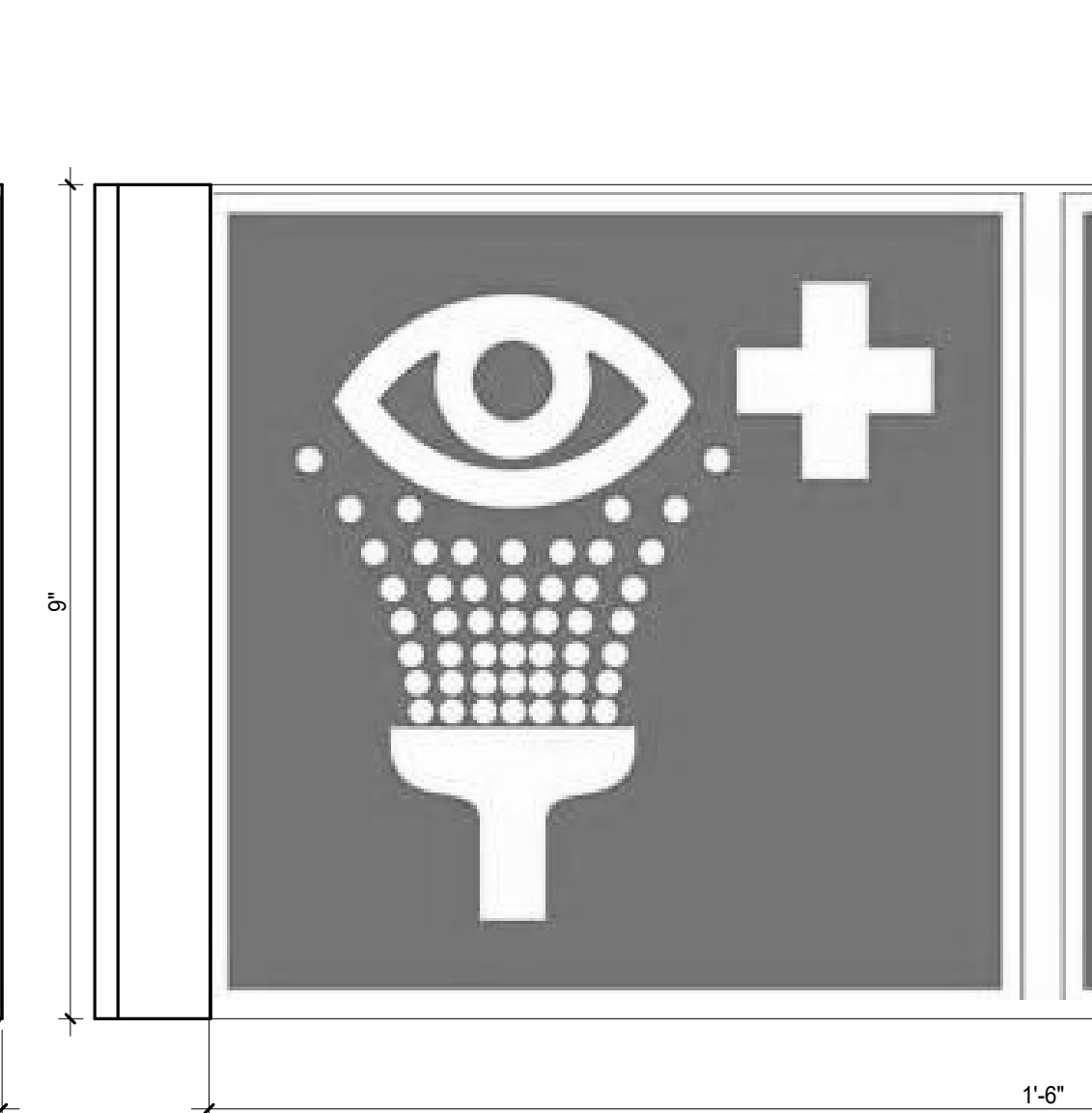
Sign Type D
Department Identification Single Face Overhead Sign - Wall-Mounted



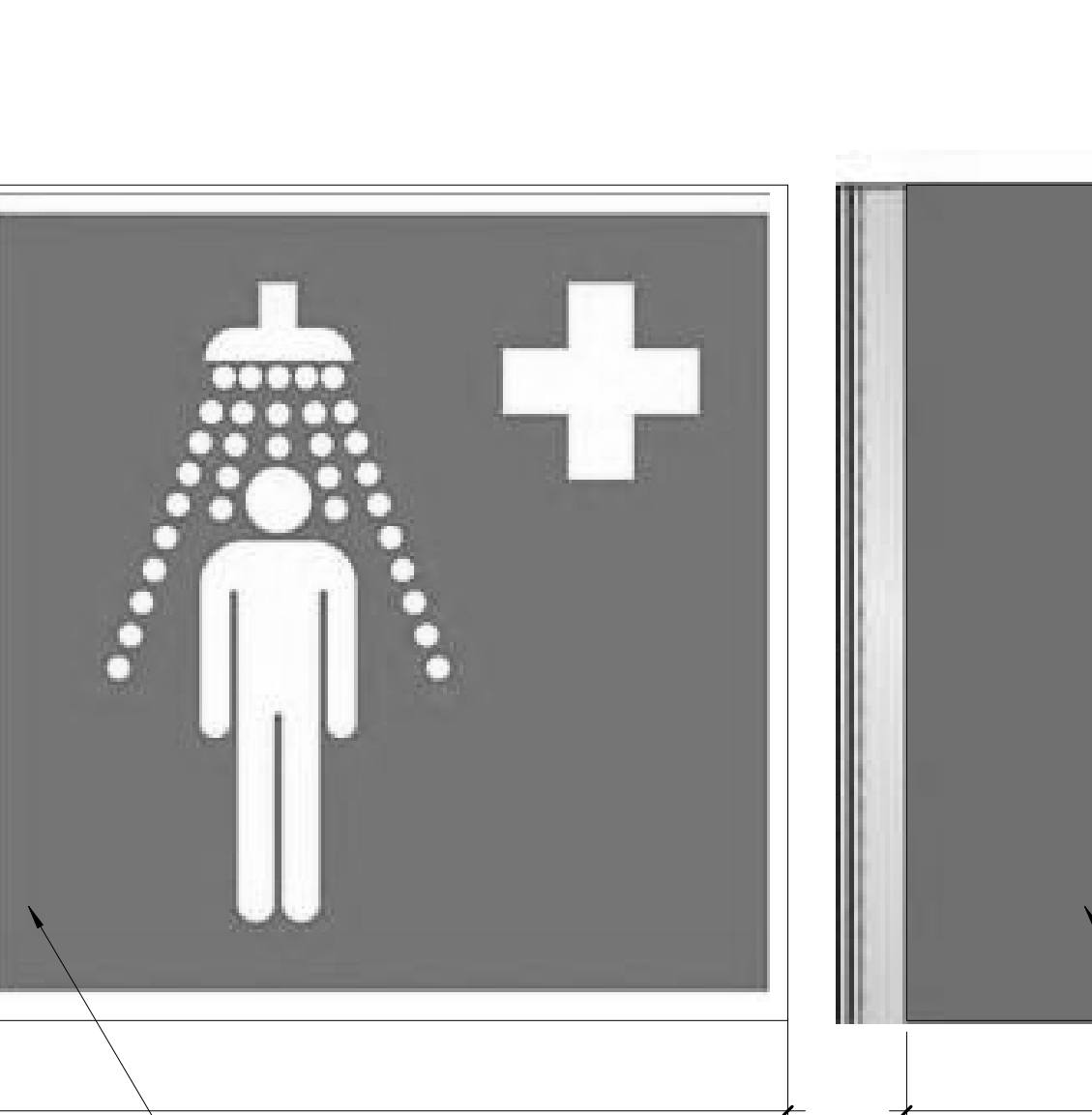
Sign Type E
Service Sign - Public Modular Thin Sign



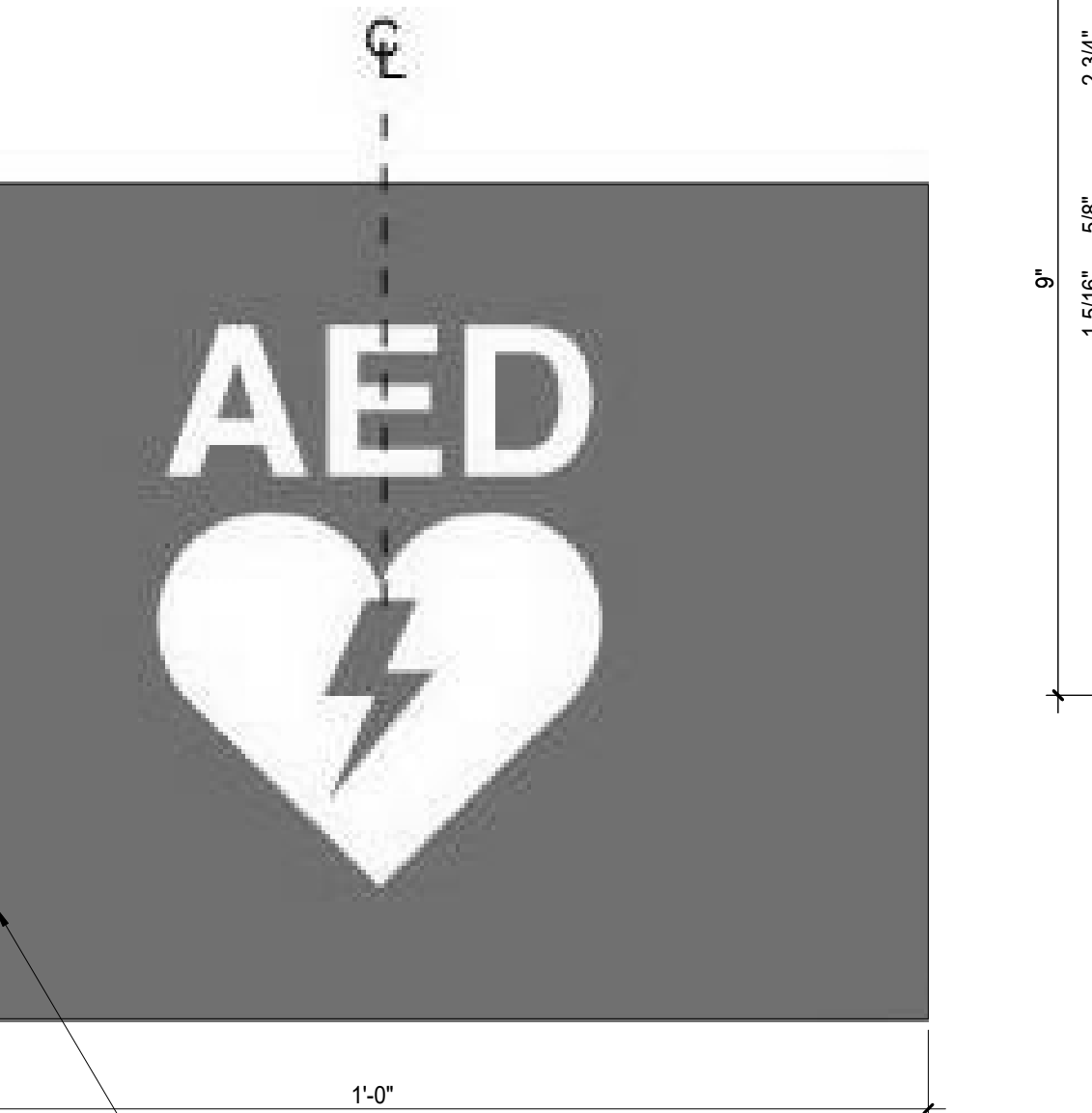
Sign Type F1
Fire Equipment Identification sign, overhead flag sign (see General Notes 5, 6 & 7)



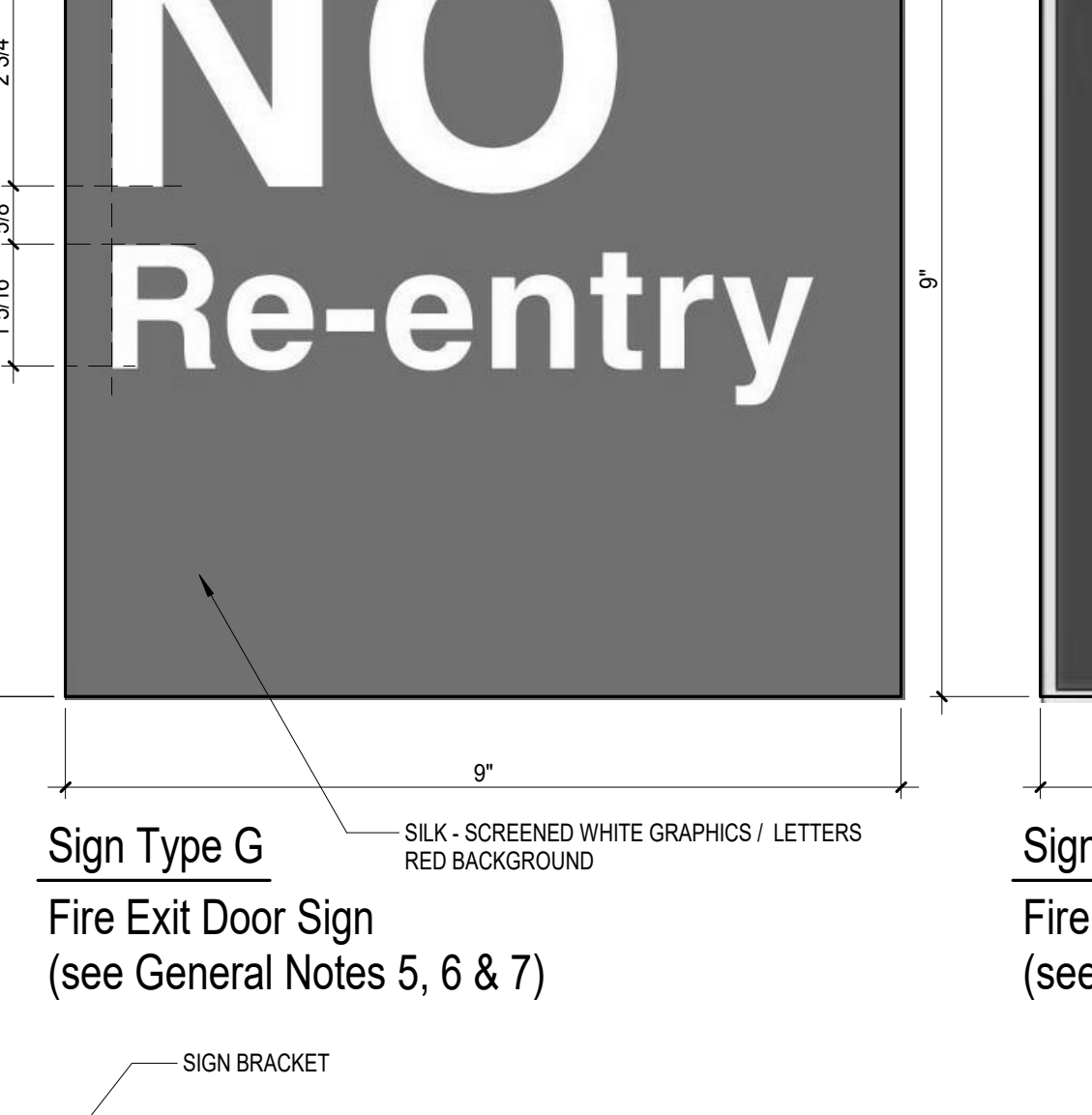
Sign Type F2
Identification sign, overhead flag sign (see General Note 6)



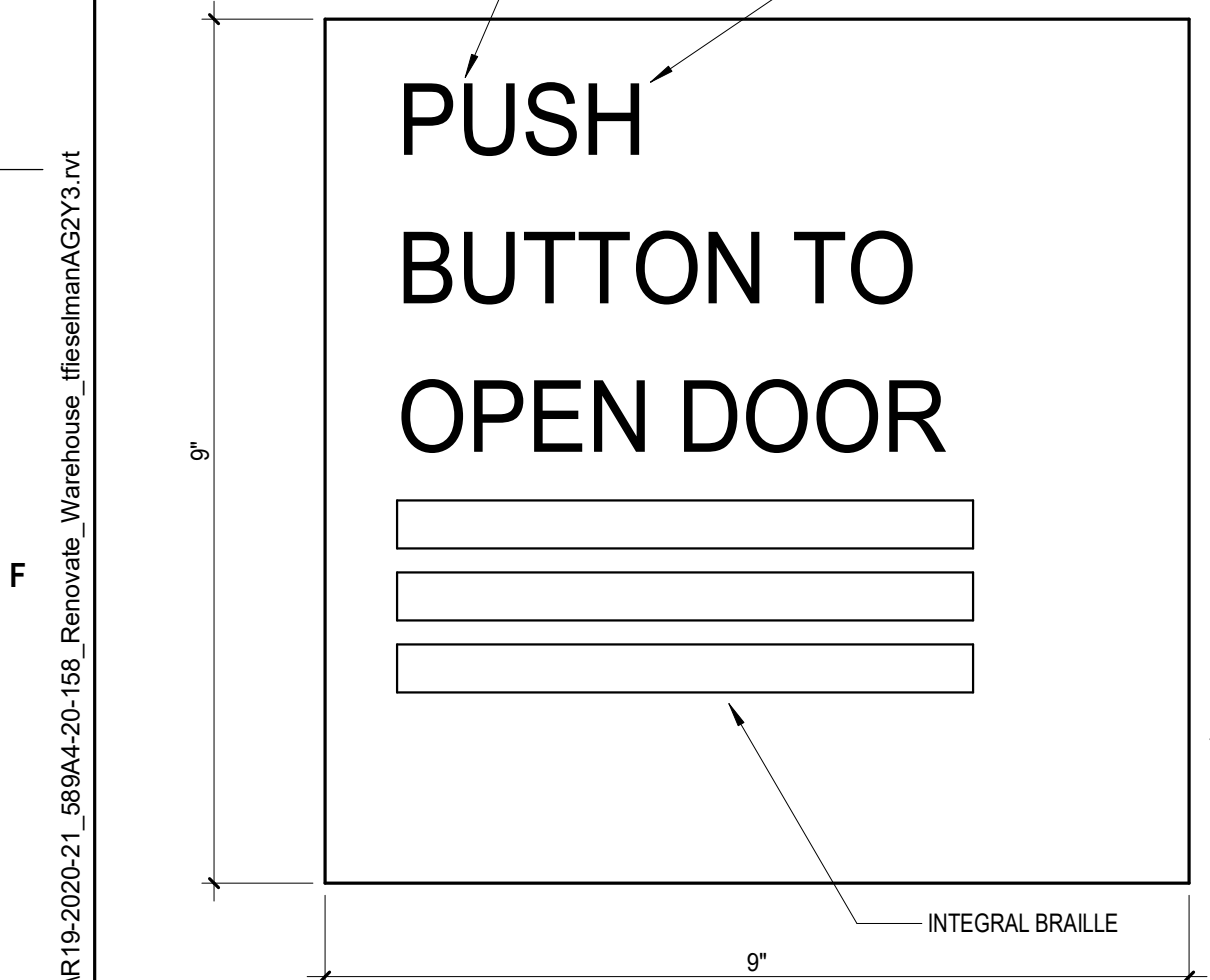
Sign Type F3
Identification sign, overhead flag sign (see General Note 6)



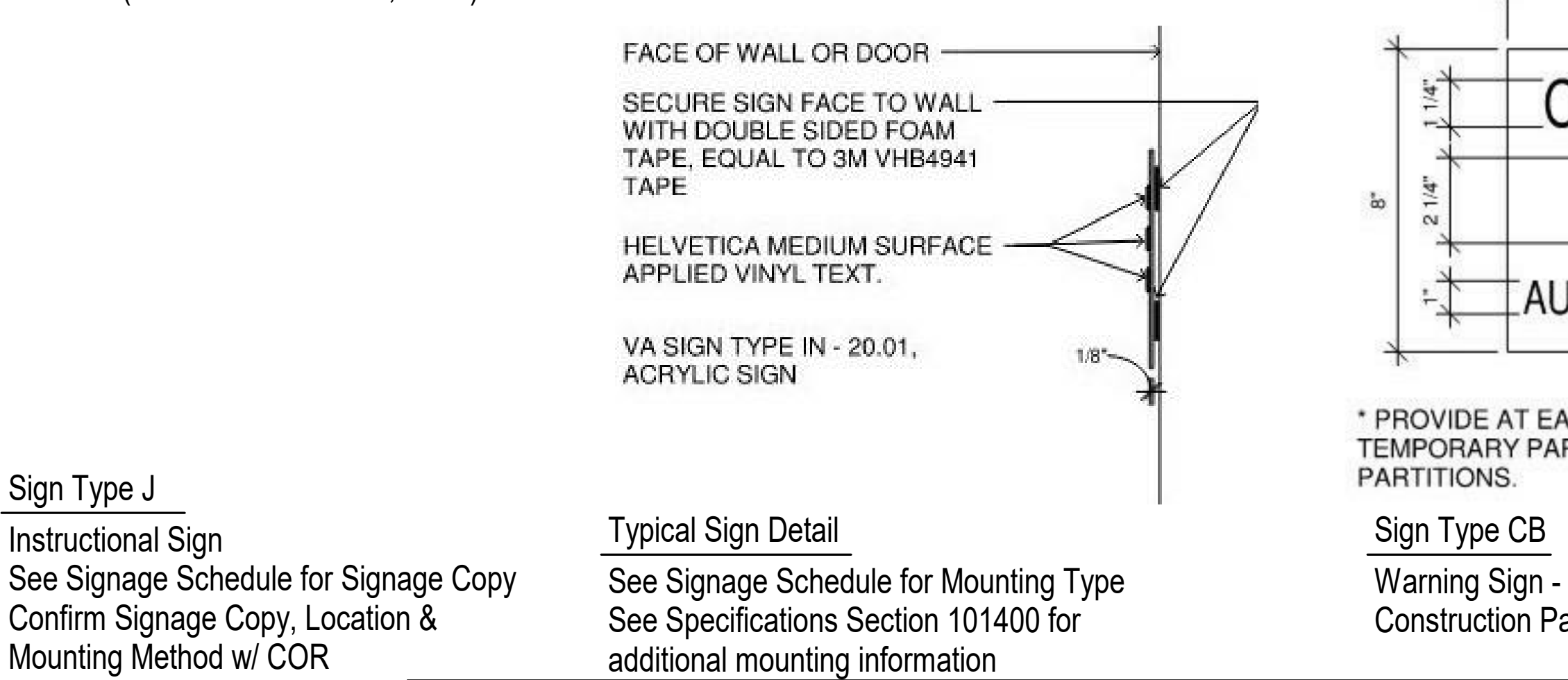
Sign Type G
Fire Exit Door Sign (see General Notes 5, 6 & 7)



Sign Type H
Fire Exit Door Sign (see General Notes 5, 6 & 7)

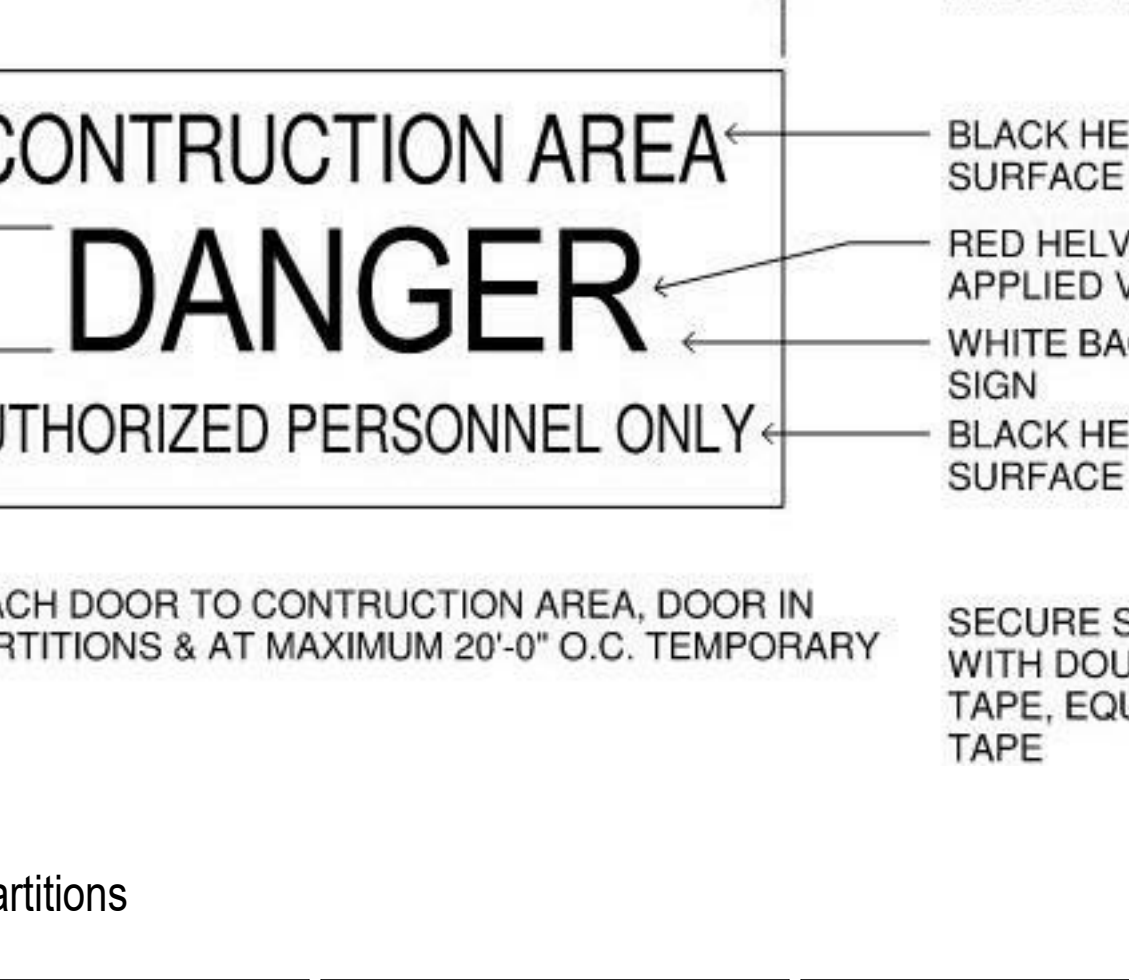


Sign Type J
Instructional Sign See Signage Schedule for Signage Copy Confirm Signage Copy, Location & Mounting Method w/ COR

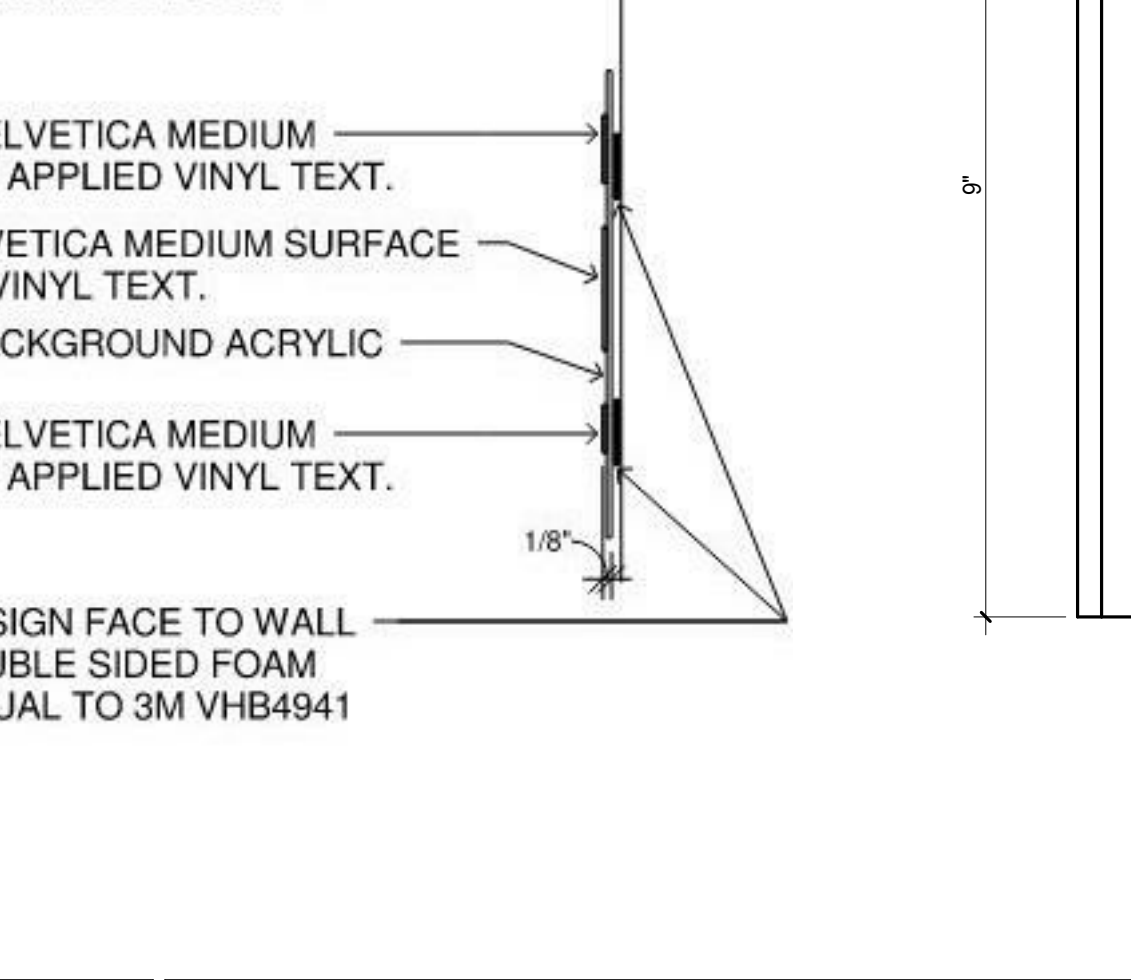


Typical Sign Detail
See Specifications Section 101400 for additional mounting information

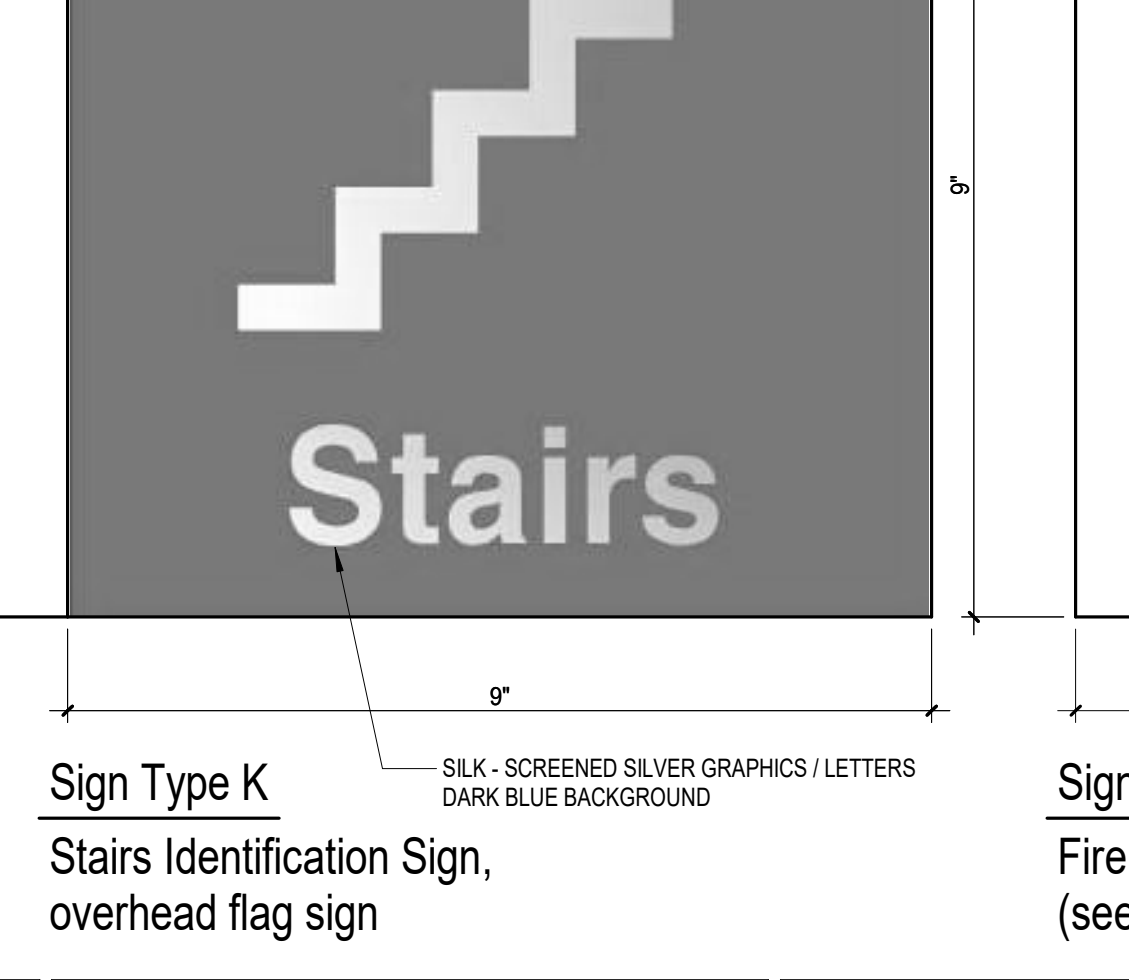
Sign Type CB
Warning Sign - Construction Partitions



Sign Type CB
Warning Sign - Construction Partitions

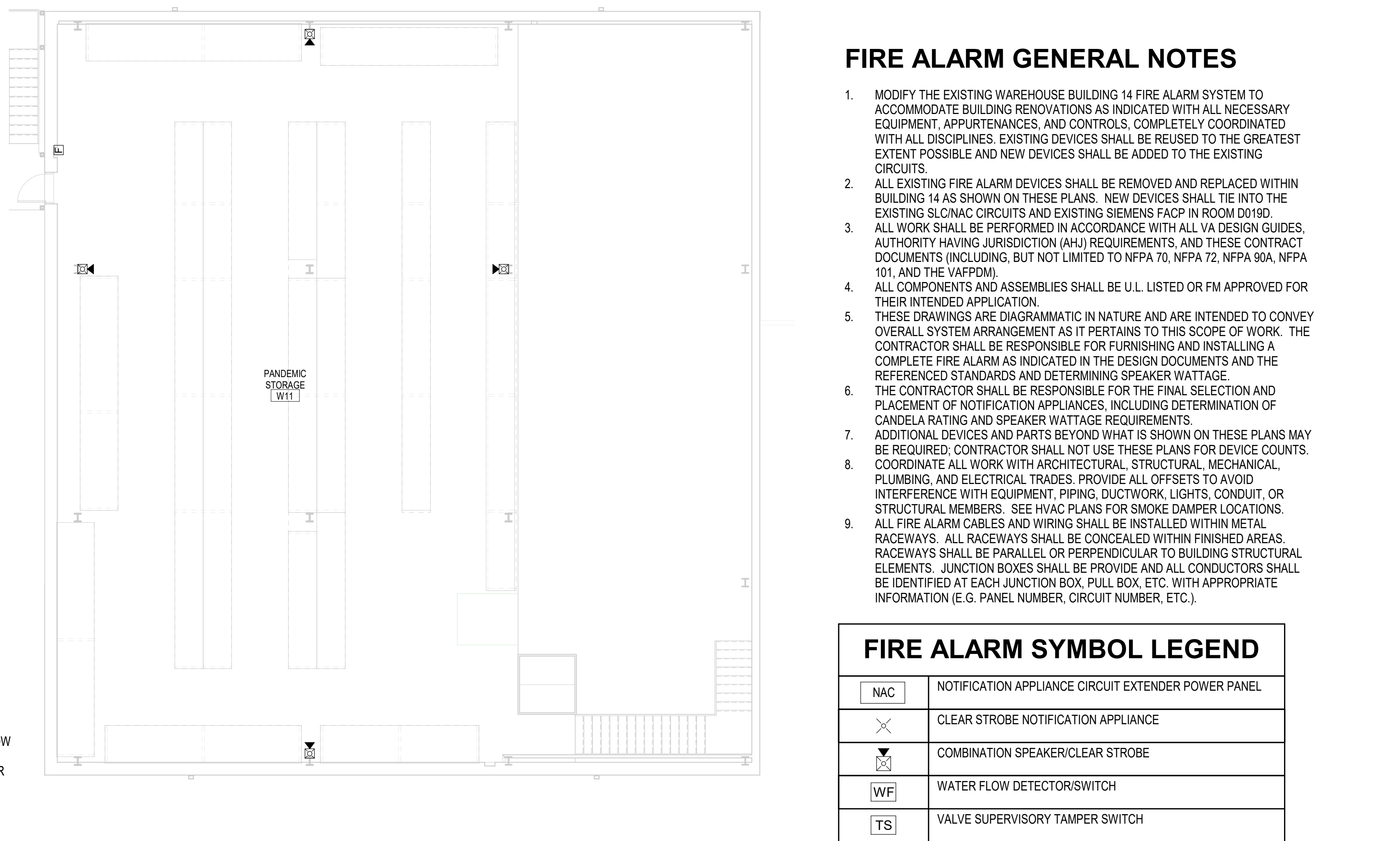
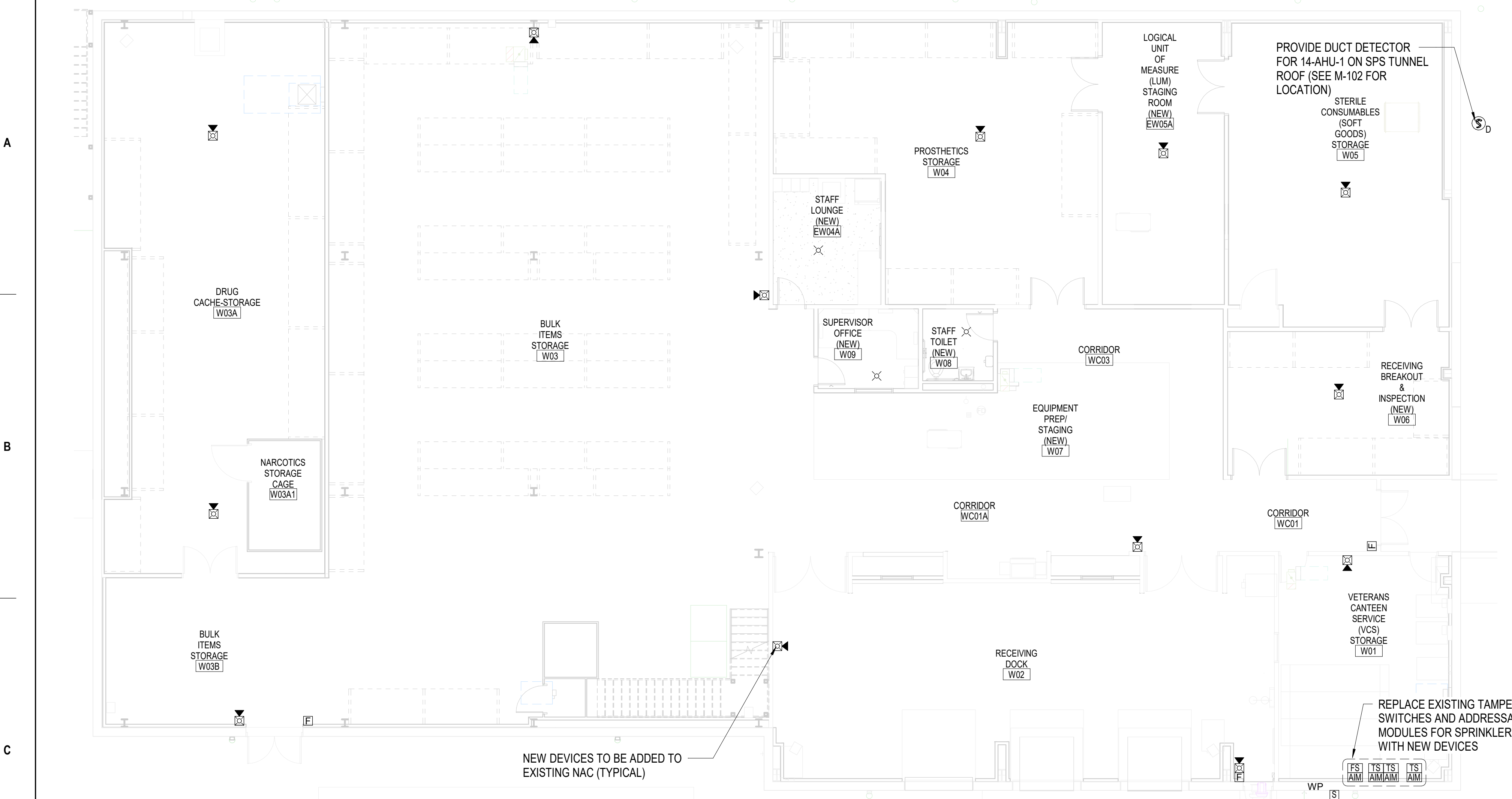


Sign Type K
Stairs Identification Sign, overhead flag sign



Sign Type L
Fire Door Sign (see General Notes 5,6)

ARCHITECT/ENGINEER OF RECORD Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elkhorst, Nebraska 68025 Phone: 402.291.6941 Fax: 402.291.9193		IMEG IMEG Corp. 15 Summer Drive, Suite 104 St. Louis, MO 63143 Phone: (314) 954-2534		STAMP ARCHITECT RICHARD JOSEPH OWEN A-6125 STATE OF NEBRASKA 24 MAR 2021		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title SIGNAGE SCHEDULE & DETAILS		Phase BID SET		Project Title RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS		Project Number 589A4-20-158	
Approved:		Fully Sprinklered		Location HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201		Issue Date 03/24/2021		Checked AHT		Drawn TJF		Building Number 14		Drawing Number AF502	
Revisions:		Date: 03/24/2021		Incandescence Life Safety, Inc. 2025 Douglas Court, #408, Denver, CO 80210 Phone: (720) 722-8010 incandescence life safety a fire protection engineering firm		U.S. Department of Veterans Affairs		Approved:		Fully Sprinklered		Issue Date 03/24/2021		Checked AHT	



FIRE ALARM GENERAL NOTES

1. MODIFY THE EXISTING WAREHOUSE BUILDING 14 FIRE ALARM SYSTEM TO ACCOMMODATE BUILDING RENOVATIONS AS INDICATED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. EXISTING DEVICES SHALL BE REUSED TO THE GREATEST EXTENT POSSIBLE AND NEW DEVICES SHALL BE ADDED TO THE EXISTING CIRCUITS.
2. ALL EXISTING FIRE ALARM DEVICES SHALL BE REMOVED AND REPLACED WITHIN BUILDING 14 AS SHOWN ON THESE PLANS. NEW DEVICES SHALL TIE INTO THE EXISTING SLC/NAC CIRCUITS AND EXISTING SIEMENS FACP IN ROOM D019D.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL VA DESIGN GUIDES, AUTHORITY HAVING JURISDICTION (AHJ) REQUIREMENTS, AND THESE CONTRACT DOCUMENTS (INCLUDING, BUT NOT LIMITED TO NFPA 70, NFPA 72, NFPA 90A, NFPA 101, AND THE VA/FDPM).
4. ALL COMPONENTS AND ASSEMBLIES SHALL BE U.L. LISTED OR FM APPROVED FOR THEIR INTENDED APPLICATION.
5. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO CONVEY OVERALL SYSTEM ARRANGEMENT AS IT PERTAINS TO THIS SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING A COMPLETE FIRE ALARM AS INDICATED IN THE DESIGN DOCUMENTS AND THE REFERENCED STANDARDS AND DETERMINING SPEAKER WATTAGE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL SELECTION AND PLACEMENT OF NOTIFICATION APPLIANCES, INCLUDING DETERMINATION OF CANDELA RATING AND SPEAKER WATTAGE REQUIREMENTS.
7. ADDITIONAL DEVICES AND PARTS BEYOND WHAT IS SHOWN ON THESE PLANS MAY BE REQUIRED; CONTRACTOR SHALL NOT USE THESE PLANS FOR DEVICE COUNTS.
8. COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. PROVIDE ALL OFFSETS TO AVOID INTERFERENCE WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, OR STRUCTURAL MEMBERS. SEE HVAC PLANS FOR SMOKE DAMPER LOCATIONS. ALL FIRE ALARM CABLES AND WIRING SHALL BE INSTALLED WITHIN METAL RACEWAYS. ALL RACEWAYS SHALL BE CONCEALED WITHIN FINISHED AREAS. RACEWAYS SHALL BE PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL ELEMENTS. JUNCTION BOXES SHALL BE PROVIDED AND ALL CONDUCTORS SHALL BE IDENTIFIED AT EACH JUNCTION BOX, PULL BOX, ETC. WITH APPROPRIATE INFORMATION (E.G. PANEL NUMBER, CIRCUIT NUMBER, ETC.).

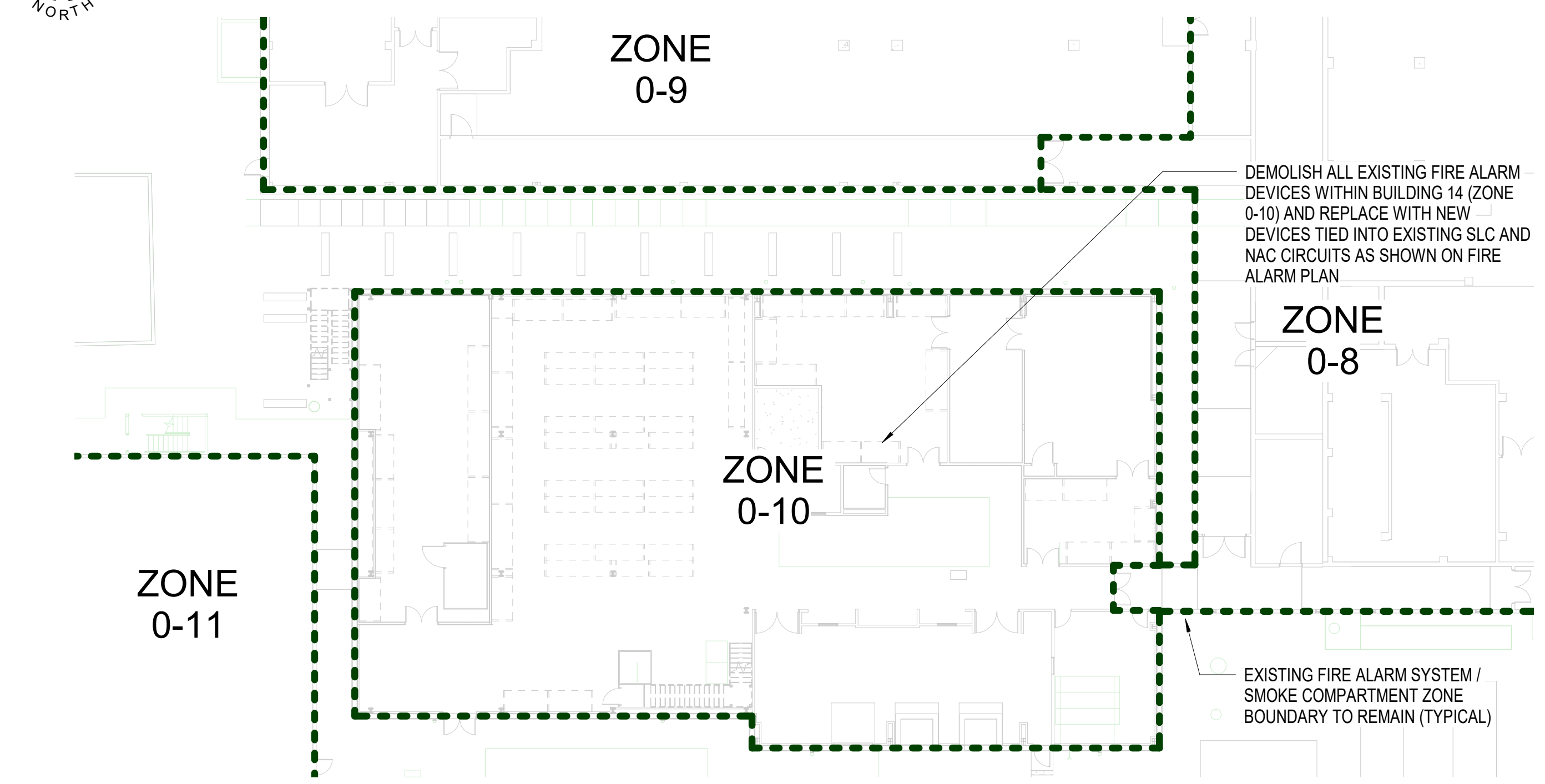
FIRE ALARM SYMBOL LEGEND

NAC	NOTIFICATION APPLIANCE CIRCUIT EXTENDER POWER PANEL
X	CLEAR STROBE NOTIFICATION APPLIANCE
⊠	COMBINATION SPEAKER/CLEAR STROBE
WF	WATER FLOW DETECTOR/SWITCH
TS	VALVE SUPERVISORY TAMPER SWITCH
F	ADDRESSABLE MANUAL PULL STATION
AIM	ADDRESSABLE INPUT MODULE
⊙P	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
⊙D	ADDRESSABLE PHOTOELECTRIC DUCT SMOKE DETECTOR

NOTE: DEVICES WITH 'WP' ACRONYM SHALL BE WEATHER PROOF

1 FIRST FLOOR - FIRE ALARM PLAN
1/8" = 1'-0"

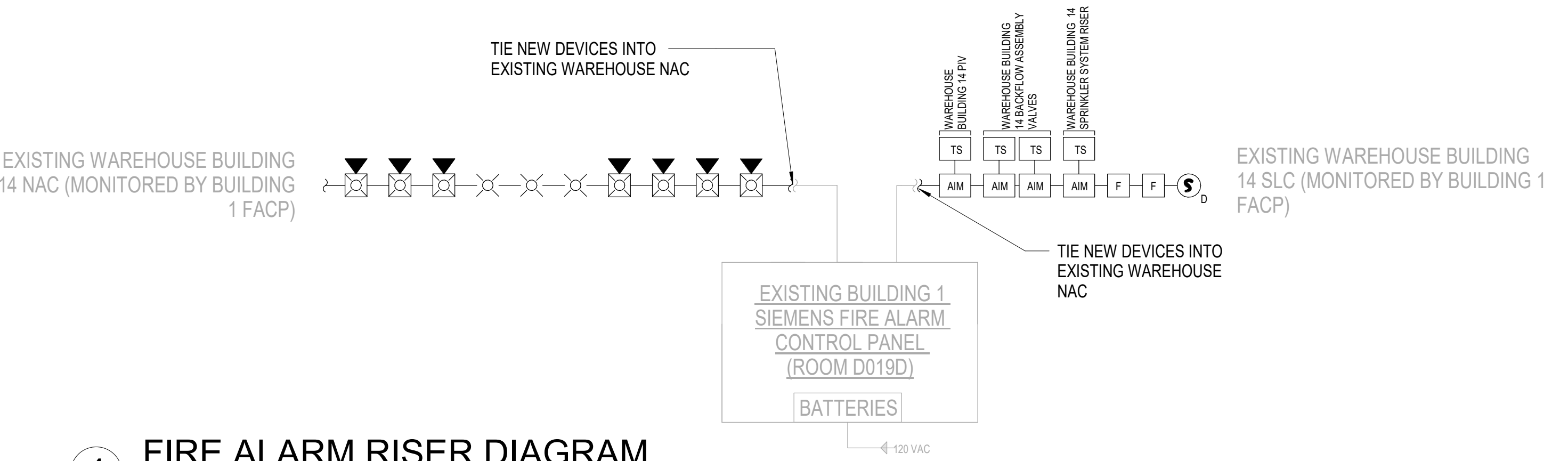
2 MEZZANINE LEVEL - FIRE ALARM PLAN
1/8" = 1'-0"



3 FIRST FLOOR - FIRE ALARM ZONING PLAN
1" = 20'-0"

	CONTROL UNIT ANNUNCIATION	TRANSMIT TO SITE RECEIVING STATION	NOTIFICATION SIGNALS	AUXILIARY FUNCTIONS									
	A	B	C	D	E	F	G	H	I	J	K	L	M
FIRE ALARM SIGNALS	●	●	●	●	●	●	●	●	●	●	●	●	●
1	●	●	●	●	●	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●	●	●	●	●	●
3	●	●	●	●	●	●	●	●	●	●	●	●	●
SUPERVISORY SIGNALS													
4	●												
5	●										●		
TROUBLE SIGNALS													
6		●				●							
7		●				●							
8		●				●							
9		●				●							
10		●				●							

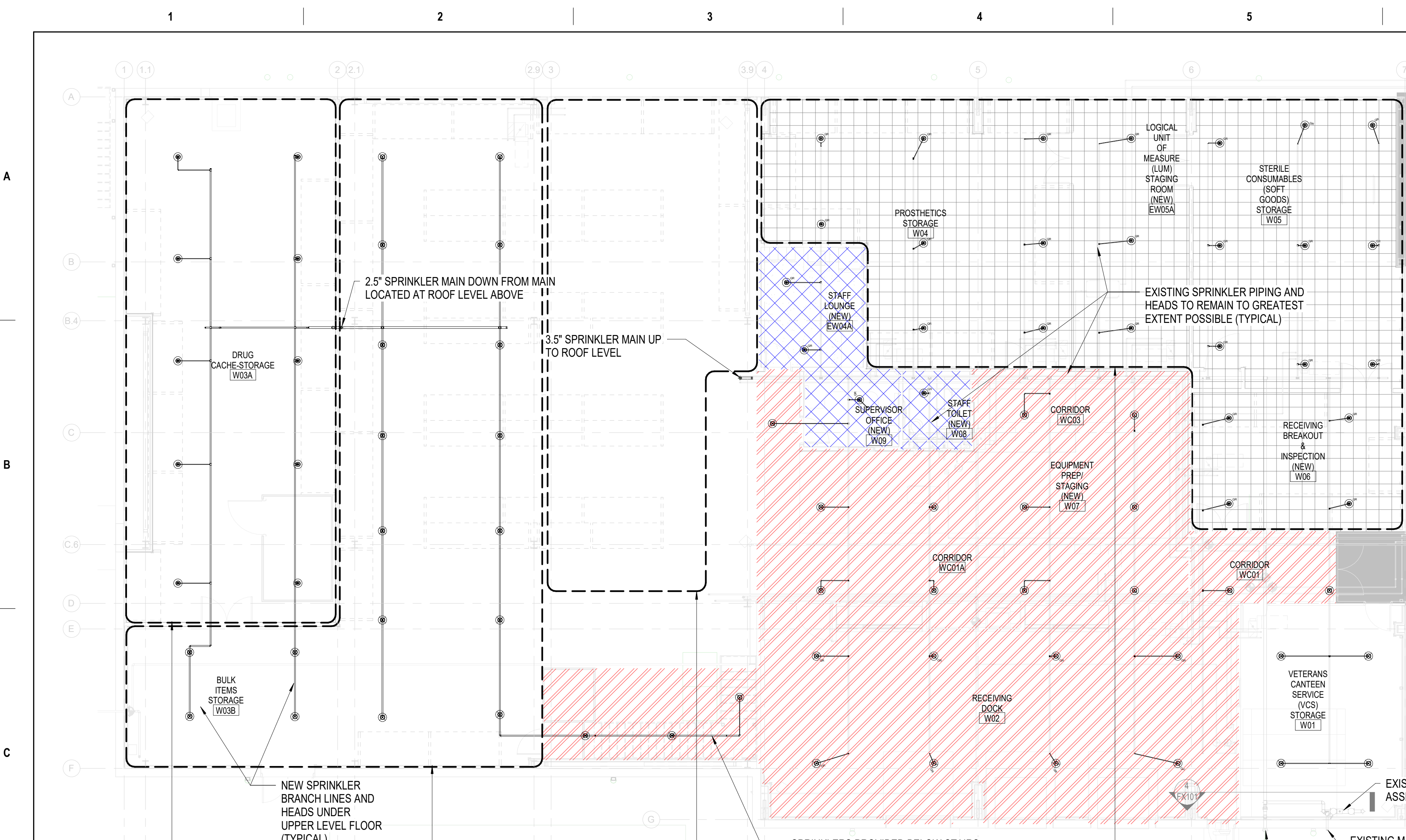
5 FIRE ALARM MATRIX OF OPERATIONS
1/2" = 1'-0"



4 FIRE ALARM RISER DIAGRAM
1/2" = 1'-0"

3/25/2021 10:41:00 AM
BIM 360://050-006-CLH/VA Truman Renovate Warehouse/050-006-CLH/VA Renovate Warehouse - PLS - R19.rvt

 Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elkhor n., Netherlands 68022 Phone: 402.291.6941 Fax: 402.291.9193	 IMEG Corp. 15 Summer Drive, Suite 104 St. Louis, MO 63143 Phone: (314) 954-2534	 CHAD A. SCHAEFER PROFESSIONAL ENGINEER	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title FIRE ALARM SYSTEM PLAN	Phase BID SET	Project Title RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS	Project Number 589A4-20-158
				Approved:	FULLY SPRINKLERED	Location HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201	Building Number 14
BID SET Revisions:		Date: 03/24/2021		Issue Date 03/24/2021	Checked TGD	Drawn APS	Drawing Number FA101 Dwg. # 51 of 94



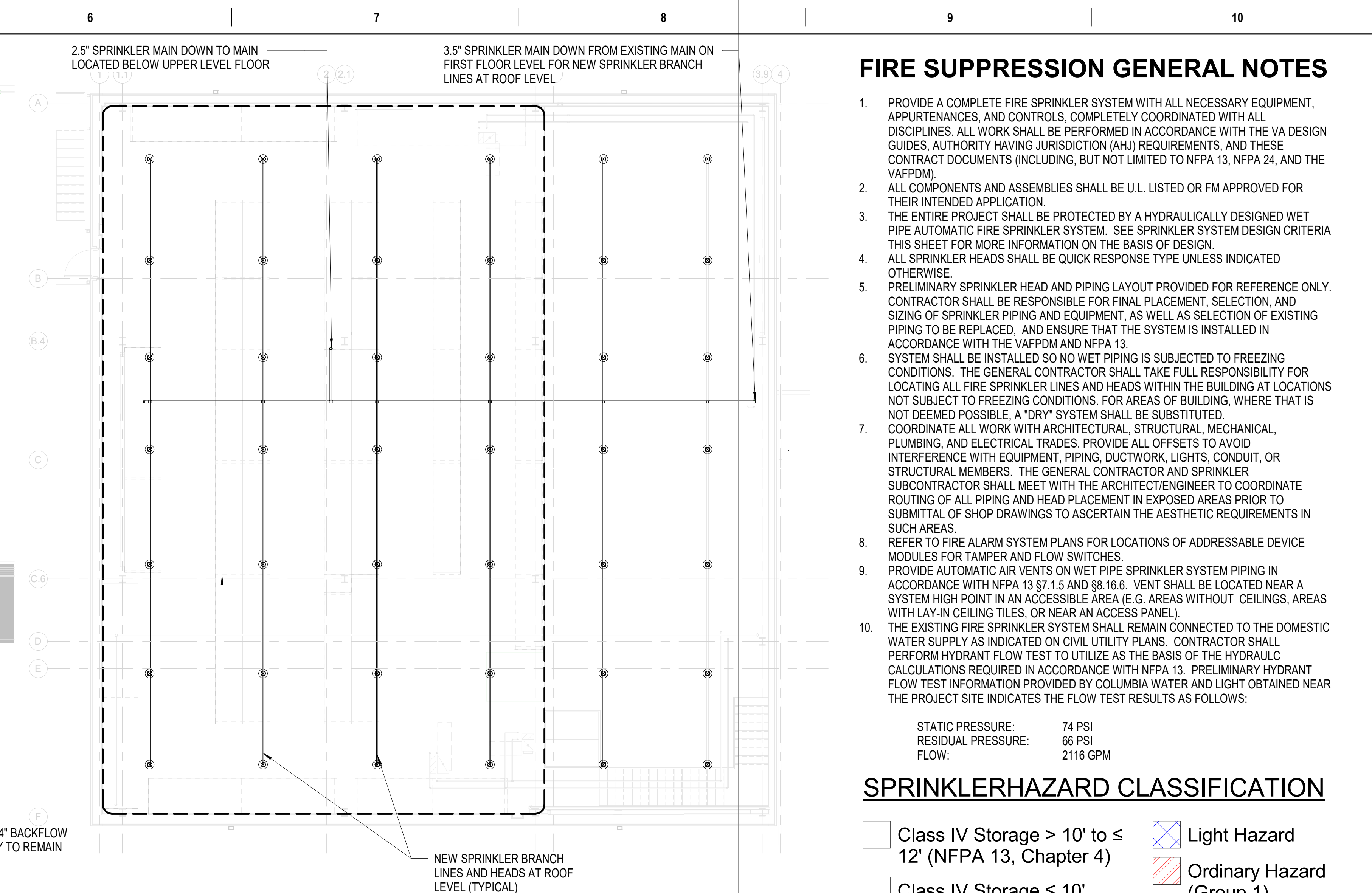
DRUG CACHE STORAGE CHARACTERISTICS: OPEN SINGLE-RACK, PALLETIZED, AND BIN BOX STORAGE CONSISTING OF CLASS IV COMMODITIES STORAGE RACKS ARE 3' AND 4' DEEP AND HAVE A TOP RACK HEIGHT OF APPROXIMATELY 7' AFF. DROP CEILING HEIGHT = 12' AFF. MAX STORAGE HEIGHT = 12'

BULK STORAGE (UNDER MEZZ) CHARACTERISTICS: OPEN SINGLE- AND DOUBLE-RACK, PALLETIZED, AND BIN BOX STORAGE CONSISTING OF CLASS IV COMMODITIES (6' AISLES) STORAGE RACKS ARE 3' AND 4' DEEP AND HAVE A TOP RACK HEIGHT OF APPROXIMATELY 7' AFF. BOTTOM OF STEEL HEIGHT = 12' -10' AFF. MAX STORAGE HEIGHT = 12'

BULK STORAGE (HIGH CEILING) CHARACTERISTICS: OPEN SINGLE- AND DOUBLE-RACK, PALLETIZED, AND BIN BOX STORAGE CONSISTING OF CLASS IV COMMODITIES (6' AISLES) STORAGE RACKS ARE 3' AND 4' DEEP AND HAVE A TOP RACK HEIGHT OF APPROXIMATELY 7' AFF. BOTTOM OF STEEL HEIGHT = 28' AT CENTER & 26' AT PERIMETER. MAX STORAGE HEIGHT = 12'

MISC. STORAGE AREAS CHARACTERISTICS: OPEN SINGLE-RACK, PALLETIZED, AND BIN BOX STORAGE CONSISTING OF CLASS IV COMMODITIES STORAGE RACKS ARE 3' AND 4' DEEP AND HAVE A TOP RACK HEIGHT OF APPROXIMATELY 7' AFF. DROP CEILING HEIGHTS = 8' 10' AFF. MAX STORAGE HEIGHT = 10'

1 FIRST FLOOR - FIRE SUPPRESSION SYSTEM PLAN
1/8" = 1'-0"



UPPER MEZZ. STORAGE AREA CHARACTERISTICS: OPEN SINGLE- AND DOUBLE-RACK, PALLETIZED, AND BIN BOX STORAGE CONSISTING OF CLASS IV COMMODITIES (6' AISLES) STORAGE RACKS ARE 3' AND 4' DEEP AND HAVE A TOP RACK HEIGHT OF APPROXIMATELY 7' AFF. BOTTOM OF STEEL HEIGHT = 14' AT CENTER & 12' AT PERIMETER. MAX STORAGE HEIGHT = 12'

2 MEZZANINE LEVEL - FIRE SUPPRESSION SYSTEM PLAN
1/8" = 1'-0"

FIRE SUPPRESSION GENERAL NOTES

1. PROVIDE A COMPLETE FIRE SPRINKLER SYSTEM WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE VA DESIGN GUIDES, AUTHORITY HAVING JURISDICTION (AHJ) REQUIREMENTS, AND THESE CONTRACT DOCUMENTS (INCLUDING, BUT NOT LIMITED TO NFPA 13, NFPA 24, AND THE VAFPM).
2. ALL COMPONENTS AND ASSEMBLIES SHALL BE U.L. LISTED OR FM APPROVED FOR THEIR INTENDED APPLICATION.
3. THE ENTIRE PROJECT SHALL BE PROTECTED BY A HYDRAULICALLY DESIGNED WET PIPE AUTOMATIC FIRE SPRINKLER SYSTEM. SEE SPRINKLER SYSTEM DESIGN CRITERIA THIS SHEET FOR MORE INFORMATION ON THE BASIS OF DESIGN.
4. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE UNLESS INDICATED OTHERWISE.
5. PRELIMINARY SPRINKLER HEAD AND PIPING LAYOUT PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL PLACEMENT, SELECTION, AND SIZING OF SPRINKLER PIPING AND EQUIPMENT, AS WELL AS SELECTION OF EXISTING PIPING TO BE REPLACED, AND ENSURE THAT THE SYSTEM IS INSTALLED IN ACCORDANCE WITH THE VAFPM AND NFPA 13.
6. SYSTEM SHALL BE INSTALLED SO NO WET PIPING IS SUBJECT TO FREEZING CONDITIONS. THE GENERAL CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR LOCATING ALL FIRE SPRINKLER LINES AND HEADS WITHIN THE BUILDING AT LOCATIONS NOT SUBJECT TO FREEZING CONDITIONS. FOR AREAS OF BUILDING, WHERE THAT IS NOT DEEMED POSSIBLE, A "DRY" SYSTEM SHALL BE SUBSTITUTED.
7. COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL TRADES. PROVIDE ALL OFFSETS TO AVOID INTERFERENCE WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, OR STRUCTURAL MEMBERS. THE GENERAL CONTRACTOR AND SPRINKLER SUBCONTRACTOR SHALL MEET WITH THE ARCHITECT/ENGINEER TO COORDINATE ROUTING OF ALL PIPING AND HEAD PLACEMENT IN EXPOSED AREAS PRIOR TO SUBMITTAL OF SHOP DRAWINGS TO ASCERTAIN THE AESTHETIC REQUIREMENTS IN SUCH AREAS.
8. REFER TO FIRE ALARM SYSTEM PLANS FOR LOCATIONS OF ADDRESSABLE DEVICE MODULES FOR TAMPER AND FLOW SWITCHES.
9. PROVIDE AUTOMATIC AIR VENTS ON WET PIPE SPRINKLER SYSTEM PIPING IN ACCORDANCE WITH NFPA 13 §7.1.5 AND §8.16.6. VENT SHALL BE LOCATED NEAR A SYSTEM HIGH POINT IN AN ACCESSIBLE AREA (E.G. AREAS WITHOUT CEILINGS, AREAS WITH LAY-IN CEILING TILES, OR NEAR AN ACCESS PANEL).
10. THE EXISTING FIRE SPRINKLER SYSTEM SHALL REMAIN CONNECTED TO THE DOMESTIC WATER SUPPLY AS INDICATED ON CIVIL UTILITY PLANS. CONTRACTOR SHALL PERFORM HYDRANT FLOW TEST TO UTILIZE AS THE BASIS OF THE HYDRAULIC CALCULATIONS REQUIRED IN ACCORDANCE WITH NFPA 13. PRELIMINARY HYDRANT FLOW TEST INFORMATION PROVIDED BY COLUMBIA WATER AND LIGHT OBTAINED NEAR THE PROJECT SITE INDICATES THE FLOW TEST RESULTS AS FOLLOWS:

STATIC PRESSURE:	74 PSI
RESIDUAL PRESSURE:	66 PSI
FLOW:	2116 GPM

SPRINKLERHAZARD CLASSIFICATION

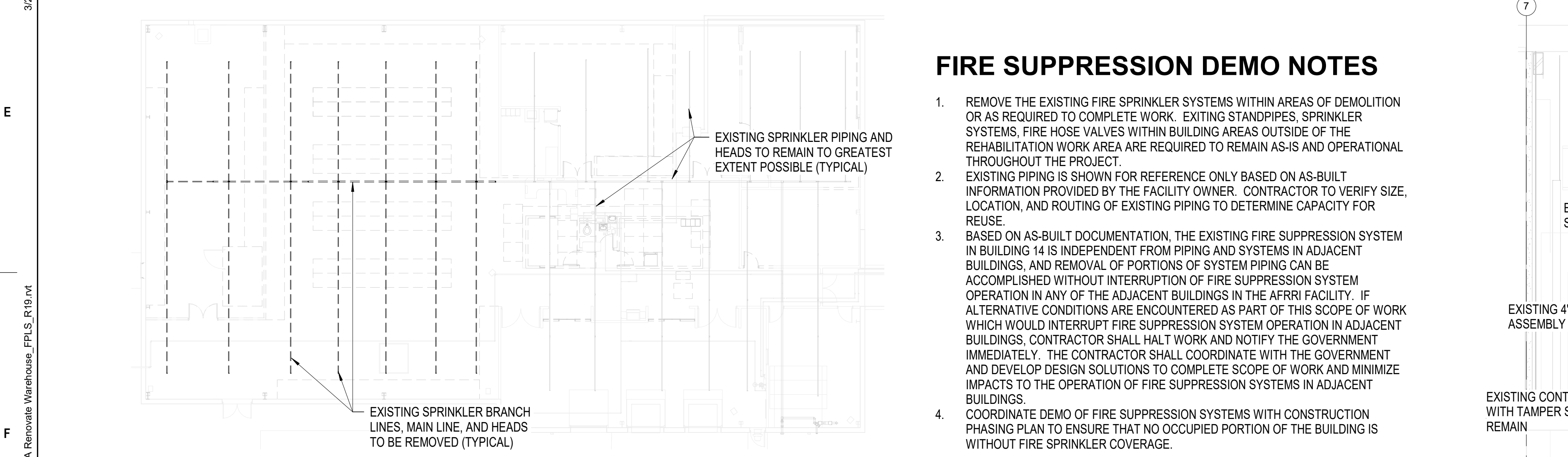
- Class IV Storage > 10' to ≤ 12' (NFPA 13, Chapter 4)
- Class IV Storage ≤ 10' (NFPA 13, Chapter 4)
- Light Hazard
- Ordinary Hazard (Group 1)
- Not In Scope

SPRINKLER SYMBOL LEGEND

	RECESSED PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD

NOTE: DEVICES WITH 'QR' ACRONYM SHALL BE QUICK RESPONSE TYPE

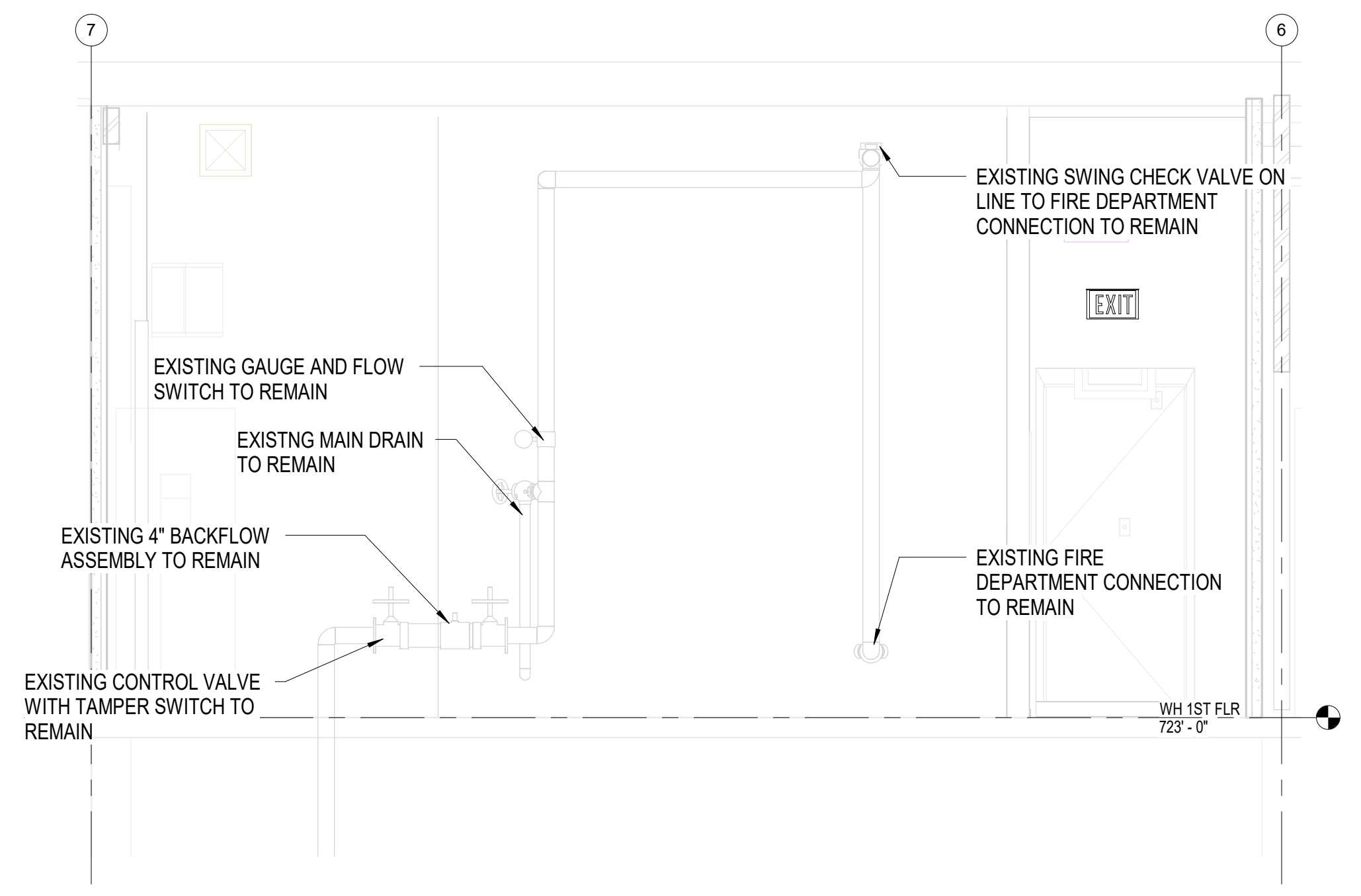
AUTOMATIC SPRINKLER SYSTEM DESIGN CRITERIA					
Sprinkler System Hazard Classification	Sprinkler Density [GPM/SF]	Sprinkler Design Area	Sprinkler Hose Allowance [gpm]	Sprinkler Duration [MIN]	Sprinkler Design Reference
Class IV Storage > 10' to ≤ 12' (NFPA 13, Chapter 4)	0.3	2,500 SF	500	120	NFPA 13 Table 4.3.1.7.1 & EH1 Curve in Figure 19.3.3.1.1
Class IV Storage ≤ 10' (NFPA 13, Chapter 4)	0.2	1,500 SF	250	60	NFPA 13 Table 4.3.1.7.1 & OH2 Curve in Figure 19.3.3.1.1
Light Hazard	0.1	1,500 SF	100	30	NFPA 13 Figure 19.3.3.1.1
Ordinary Hazard (Group 1)	0.15	1,500 SF	250	60	NFPA 13 Figure 19.3.3.1.1



3 FIRST FLOOR - FIRE SUPPRESSION SYSTEM DEMO PLAN
1/16" = 1'-0"

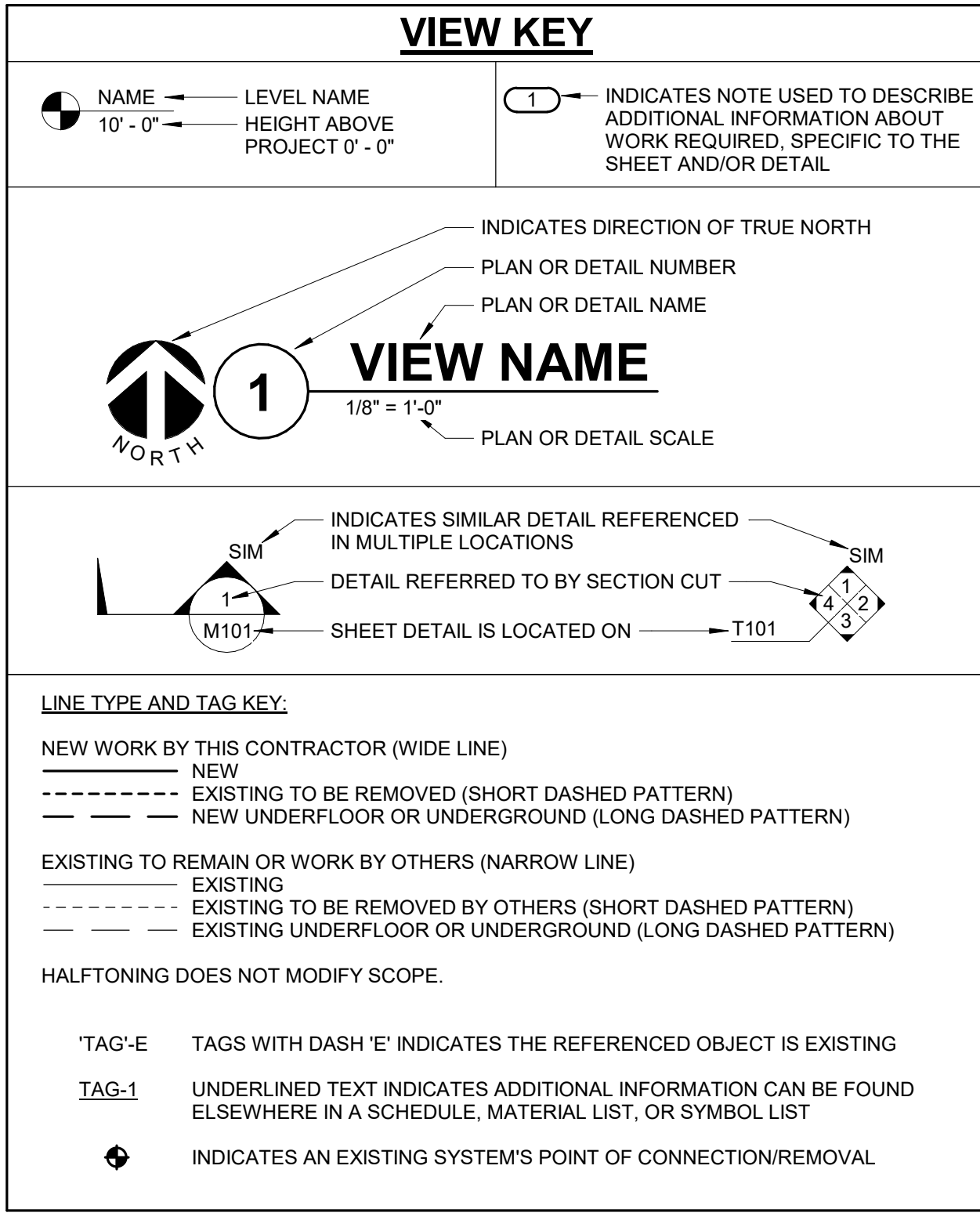
FIRE SUPPRESSION DEMO NOTES

1. REMOVE THE EXISTING FIRE SPRINKLER SYSTEMS WITHIN AREAS OF DEMOLITION OR AS REQUIRED TO COMPLETE WORK. EXISTING STANDPIPES, SPRINKLER SYSTEMS, FIRE HOSE VALVES WITHIN BUILDING AREAS OUTSIDE OF THE REHABILITATION WORK AREA ARE REQUIRED TO REMAIN AS-IS AND OPERATIONAL THROUGHOUT THE PROJECT.
2. EXISTING PIPING IS SHOWN FOR REFERENCE ONLY BASED ON AS-BUILT INFORMATION PROVIDED BY THE FACILITY OWNER. CONTRACTOR TO VERIFY SIZE, LOCATION, AND ROUTING OF EXISTING PIPING TO DETERMINE CAPACITY FOR REUSE.
3. BASED ON AS-BUILT DOCUMENTATION, THE EXISTING FIRE SUPPRESSION SYSTEM IN BUILDING 14 IS INDEPENDENT FROM PIPING AND SYSTEMS IN ADJACENT BUILDINGS, AND REMOVAL OF PORTIONS OF SYSTEM PIPING CAN BE ACCOMPLISHED WITHOUT INTERRUPTION OF FIRE SUPPRESSION SYSTEM OPERATION IN ANY OF THE ADJACENT BUILDINGS IN THE AFRR1 FACILITY. IF ALTERNATIVE CONDITIONS ARE ENCOUNTERED AS PART OF THIS SCOPE OF WORK WHICH WOULD INTERRUPT FIRE SUPPRESSION SYSTEM OPERATION IN ADJACENT BUILDINGS, CONTRACTOR SHALL HALT WORK AND NOTIFY THE GOVERNMENT IMMEDIATELY. THE CONTRACTOR SHALL COORDINATE WITH THE GOVERNMENT AND DEVELOP DESIGN SOLUTIONS TO COMPLETE SCOPE OF WORK AND MINIMIZE IMPACTS TO THE OPERATION OF FIRE SUPPRESSION SYSTEMS IN ADJACENT BUILDINGS.
4. COORDINATE DEMO OF FIRE SUPPRESSION SYSTEMS WITH CONSTRUCTION PHASING PLAN TO ENSURE THAT NO OCCUPIED PORTION OF THE BUILDING IS WITHOUT FIRE SPRINKLER COVERAGE.



4 EXISTING SPRINKLER RISE LEAD-IN SECTION
3/8" = 1'-0"

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APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

BUILDING CODE:	IBC 2018 EDITION
FIRE CODE:	NFPA: 1 2018 EDITION
PLUMBING CODE:	IPC 2018 EDITION
MECHANICAL CODE:	IMC 2018 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2018 EDITION
ENERGY CONSERVATION CODE:	ASHRAE 90.1 2013
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

PLUMBING SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
CW	COLD WATER - POTABLE
D	DRAIN
DT	DRAIN TILE
G	NATURAL GAS
GRV	GAS REGULATOR VENT
GSAN	SANITARY DRAINAGE (GREASE SANITARY DRAINAGE)
HW	HOT WATER - POTABLE
HWC	HOT WATER CIRCULATING - POTABLE
HW140	HOT WATER - POTABLE NUMBER INDICATES TEMP
HWC140	HOT WATER CIRC. - POTABLE NUMBER INDICATES TEMP
NCW	NON-POTABLE COLD WATER
SAN	SANITARY DRAINAGE
ST(1,000)	STORM DRAINAGE (ROOF SQUARE FOOTAGE)
STS	STORM DRAINAGE (SECONDARY)
V	VENT
W	SERVICE WATER - POTABLE
→	PIPE CONTINUATION
⊖	PIPE CAP
↓	PIPE DOWN
↑	PIPE UP OR UP/DOWN
○	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
↘	PITCH PIPE IN DIRECTION
→	ROUTE TO DRAIN
RD-1 6"(1000)	ROOF DRAIN PROPERTIES SYMBOL SIZE (ROOF SQ. FT.)
⊕	DIELECTRIC CONNECTION
⊕	UNION/FLANGE
⊕	SHUTOFF VALVE NORMALLY OPEN
⊕	SHUTOFF VALVE NORMALLY CLOSED
GPM	BALANCING VALVE (NUMBER INDICATES GPM)
⊕	CHECK VALVE
⊕	BACKFLOW PREVENTER
⊕	SOLENOID VALVE
⊕	SAFETY/RELIEF VALVE
⊕	VACUUM BREAKER
⊕	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
⊕	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
⊕	TEMPERATURE SENSOR WITH WELL
⊕	THERMOMETER WITH WELL (DIAL TYPE)
⊕	THERMOMETER WITH WELL (FILLED TYPE)
⊕	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
⊕	PRESSURE REDUCING VALVE (LIQUID/GAS)
⊕	PUMP
M	METER
—	ALIGNMENT GUIDE
×	PIPE ANCHOR
⊕	EXPANSION JOINT

PLUMBING ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
CB	CATCH BASIN
CI	CAST IRON
CO	CLEANOUT
CS	CLINICAL SINK
DB	DIALYSIS BOX
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
E	EXISTING
EE	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESE	EMERGENCY SHOWER/EYEWASH
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FM	FLOW METER
FS	FLOOR SINK
GD	GARBAGE DISPOSER
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
IE	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MB	MOP BASIN
MH	MANHOLE
MV	MIXING VALVE
NIC	NOT IN CONTRACT
NT	NEUTRALIZATION TANK
OS	OIL SEPARATOR
RD	ROOF DRAIN
SCCR	SHORT CIRCUIT CURRENT RATING
SH	SHOWER
SK	SINK
SS	SERVICE SINK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TYP	TYPICAL
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WATER HEATER
WMF	WASHING MACHINE FIXTURE
WM	WATER METER
WS	WATER SOFTENER
UB	UTILITY BOX
UNO	UNLESS NOTED OTHERWISE
YCO	YARD CLEANOUT

- ### MECHANICAL RENOVATION NOTES:
- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
 - NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
 - WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
 - PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
 - OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
 - MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR THE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.
 - DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

- ### PLUMBING GENERAL NOTES:
- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
 - CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
 - CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
 - ALL FIXTURES SHALL CONFORM TO FEDERAL ACT 53874.
 - INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
 - VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
 - REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
 - EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL DEMOLITION INFORMATION.
 - P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

- ### MECHANICAL PHASING NOTES:
- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- REFER TO DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK.
 - MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
 - REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTGAS, ETC. WITH AFFECTED ADJACENT AREAS.
 - PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
 - INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT.
 - PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

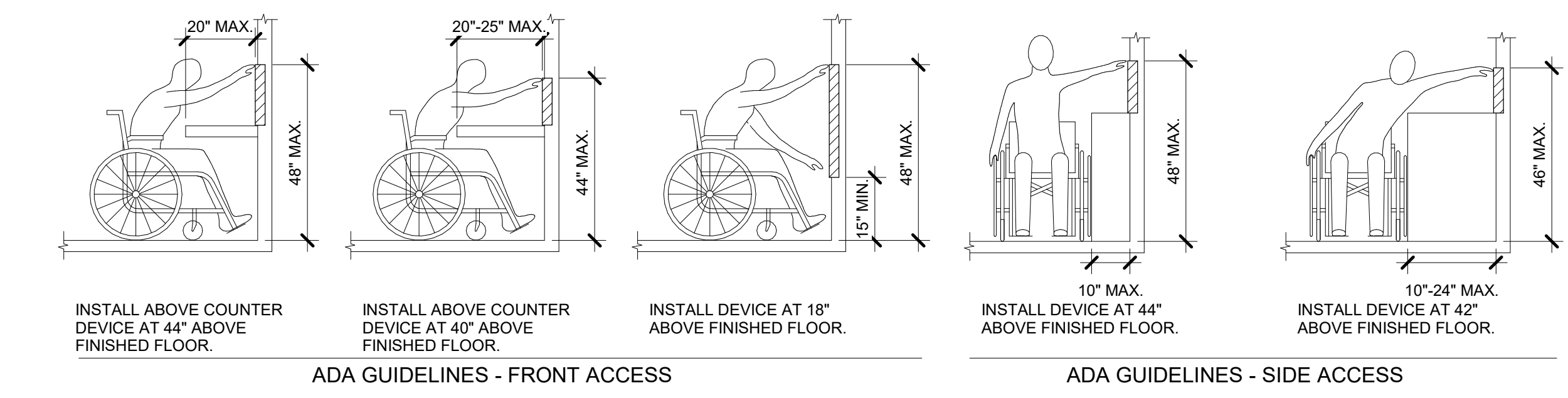
PLUMBING SLOPE REQUIREMENTS:

BASED ON PLUMBING CODE: [IPC-2018]

INTERIOR: SANITARY WASTE:	≤2-1/2" @ 1/4" PER FOOT 2 3/8" @ 1/8" PER FOOT 2 5/8" @ 1/16" PER FOOT
STORM (GRAVITY): CONDENSATE AND INDIRECT DRAINAGE: SANITARY VENT: DOMESTIC WATER:	1/8" PER FOOT NO SPECIFIC PITCH, PITCH TO FIXTURES NO SPECIFIC PITCH, PITCH TO FIXTURES

PLUMBING FIXTURE SCHEDULE

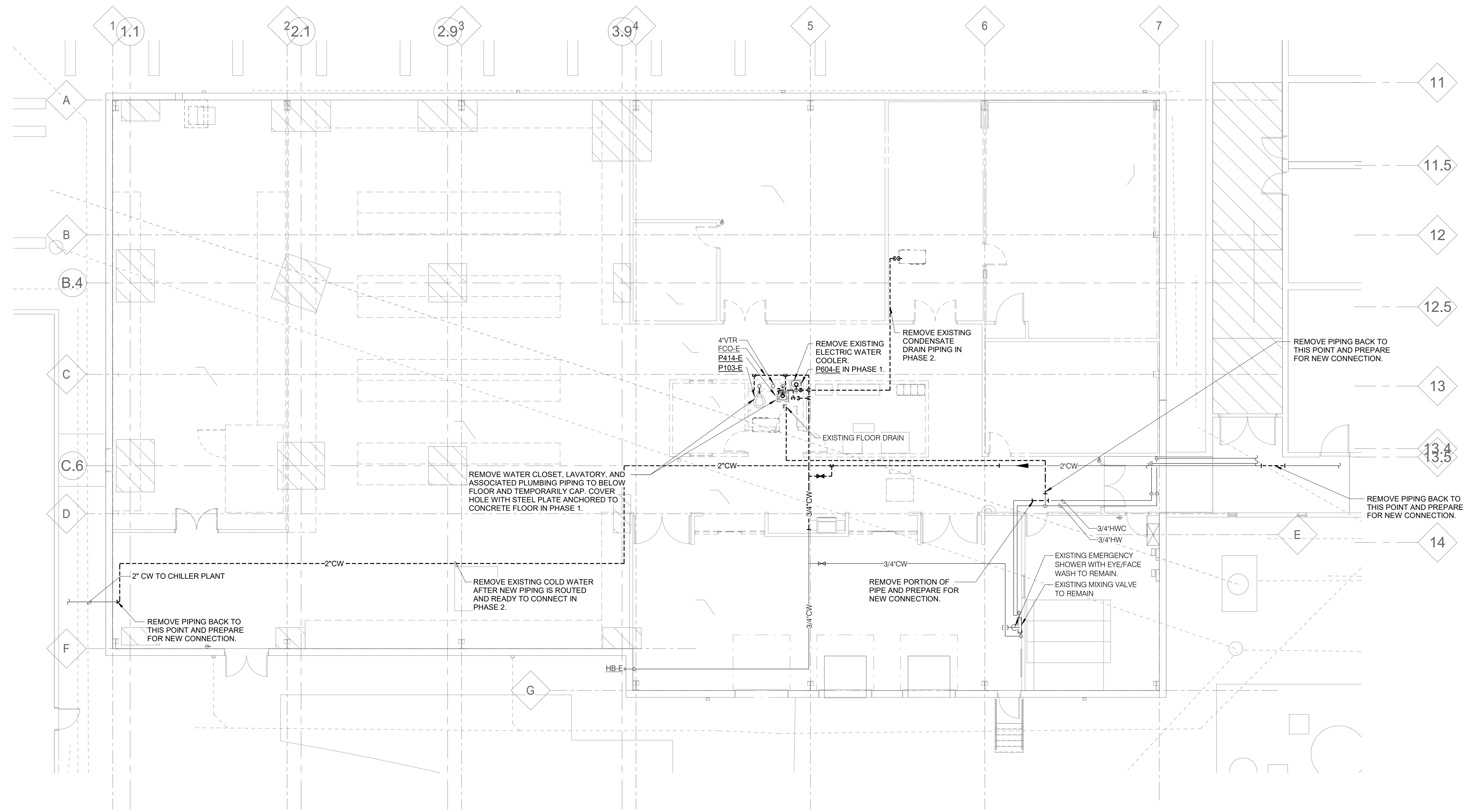
MARK	DESCRIPTION	WASTE PIPE		VENT PIPE		COLD WATER		HOT WATER		WASTE FIXTURE UNITS	WATER FIXTURE UNITS	WRIST BLADE HANDLES	ELECTRIC SENSOR	REMARKS
		IN	[mm]	IN	[mm]	IN	[mm]	IN	[mm]					
P-103	WATER CLOSET, WALL HUNG	3	[75]	2	[50]	1.25	[31]			6	10	NA	YES	
P-418	LAVATORY	2	[50]	1.5	[38]	5	[13]	5	[13]	2	2	NA	YES	
P-812	WATER SUPPLY BOX	2	[50]	1.5	[38]	5	[13]			1	1	NA	NO	SERVES OWNER PROVIDED ICE/WATER DISPENSER



ADA STANDARDS FOR ACCESSIBLE DESIGN

BID SET Revisions:	03/24/2021 Date:	ARCHITECT/ENGINEER OF RECORD Calvin L. Hinz Architects, P.C. 3705 North 290th Street Elkhor, Va, Virginia 22022 Phone: 402.291.6941 Fax: 402.291.9193	IMEG Incandescence Life Safety, Inc. 3025 Ringwood Court, #400, Denver, CO, 80216 St. Louis, MO 63143 Phone: (314) 954-2534	STAMP RUSSELL J. ARNOLD LICENSE NUMBER: 14-3636 REGISTERED PROFESSIONAL ENGINEER	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title PLUMBING COVERSHEET	Phase BID SET	Project Title RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS	Project Number 589A4-20-158
						Approved:	FULLY SPRINKLERED	Location HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201	Building Number 14
Issue Date 03/24/2021		Checked GORPAT		Drawn ANUSHA		Drawing Number P-000		Dwg. # 53 of 94	

SHEET NOTES:
 1. REFER TO ARCHITECTURAL PHASING DRAWINGS PH101, PH102, AND PH103 FOR ADDITIONAL INFORMATION.



1 FIRST FLOOR PLAN - PLUMBING DEMOLITION
 1/8" = 1'-0"

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 3/24/2021

BID SET	03/24/2021
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 REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management
 VA U.S. Department of Veterans Affairs

Drawing Title
 FIRST FLOOR PLAN - PLUMBING DEMOLITION

Approved:

Phase
 BID SET

FULLY SPRINKLERED

Project Title
 RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
 HARRY S. TRUMAN MEM. VETERANS HOSPITAL
 800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
 03/24/2021

Checked
 GORPAT

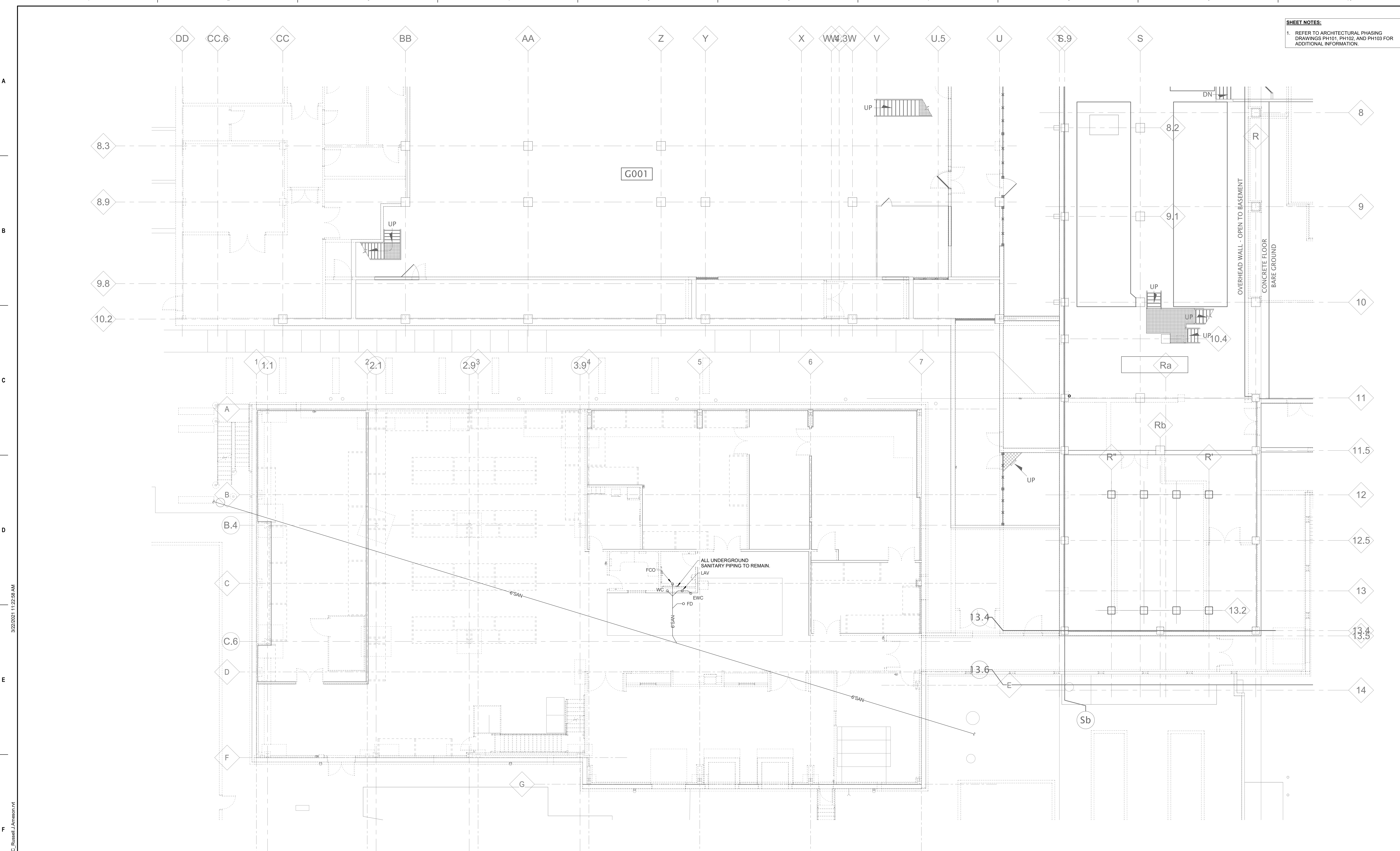
Drawn
 ANUSHA

Project Number
 589A4-20-158

Building Number
 14

Drawing Number
 PD101
 Dwg. # 54 of 94

SHEET NOTES:
 1. REFER TO ARCHITECTURAL PHASING DRAWINGS PH101, PH102, AND PH103 FOR ADDITIONAL INFORMATION.



1 UNDER FLOOR PLAN - PLUMBING
 1/8" = 1'-0"

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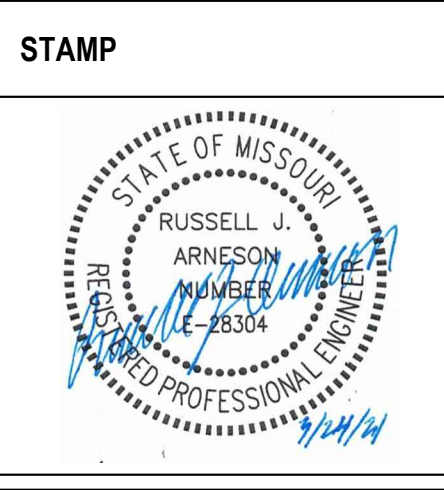
BID SET	03/24/2021
Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

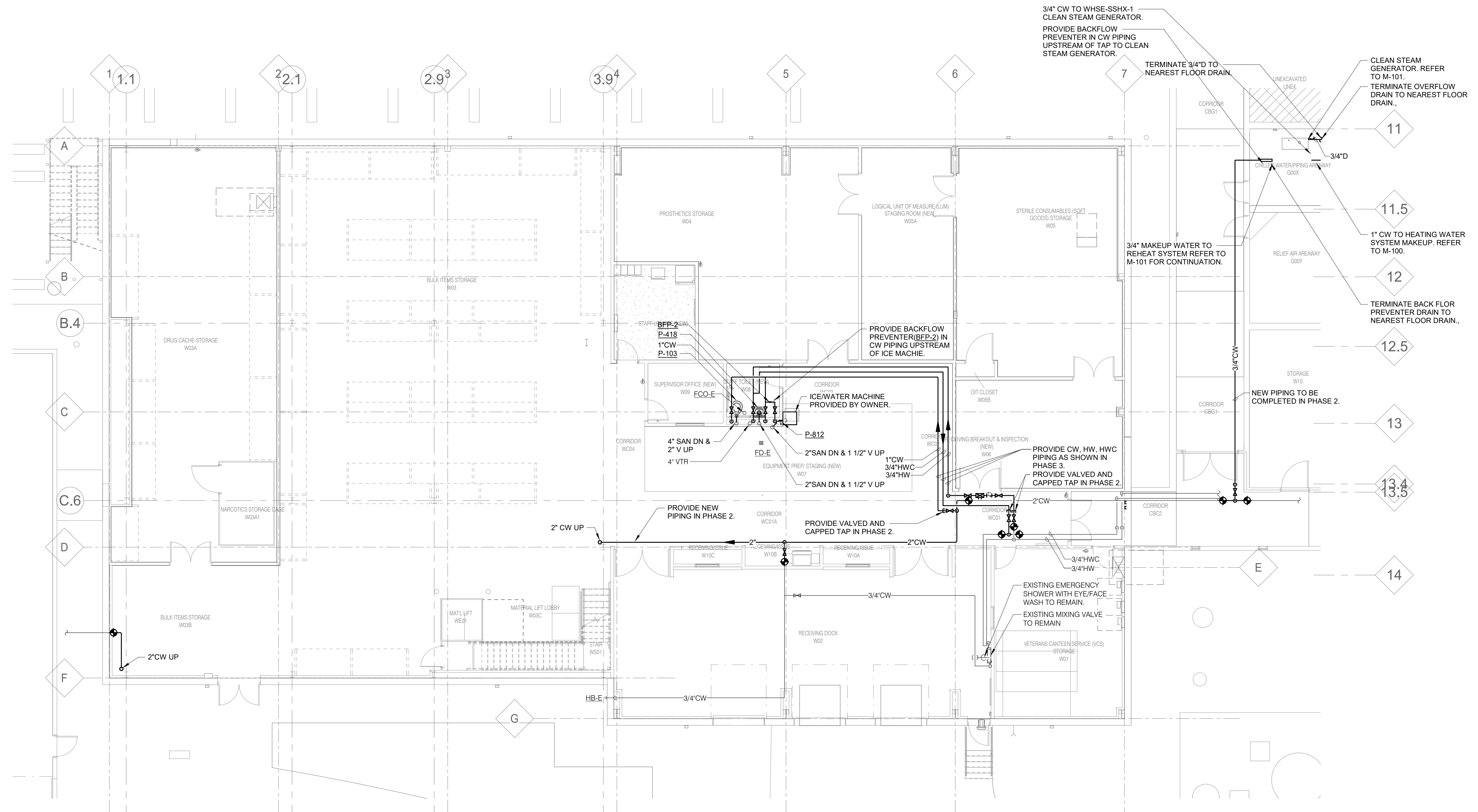
Drawing Title	UNDER FLOOR PLAN - PLUMBING
Approved:	

Phase	BID SET
	FULLY SPRINKLERED

Project Title	RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS
Location	HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201
Issue Date	03/24/2021
Checked	GORPAT
Drawn	ANUSHA

Project Number	589A4-20-158
Building Number	14
Drawing Number	P-100
	Dwg. # 55 of 94

SHEET NOTES:
 1. REFER TO ARCHITECTURAL PHASING DRAWINGS PH101, PH102, AND PH103 FOR ADDITIONAL INFORMATION.



1 FIRST FLOOR PLAN - PLUMBING
 1/8" = 1'-0"

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Revisions:	Date:

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
 FIRST FLOOR PLAN - PLUMBING

Approved:

Phase
 BID SET

FULLY SPRINKLERED

Project Title
 RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
 HARRY S. TRUMAN MEM. VETERANS HOSPITAL
 800 HOSPITAL DR., COLUMBIA MO 65201

Project Number
 589A4-20-158

Building Number
 14

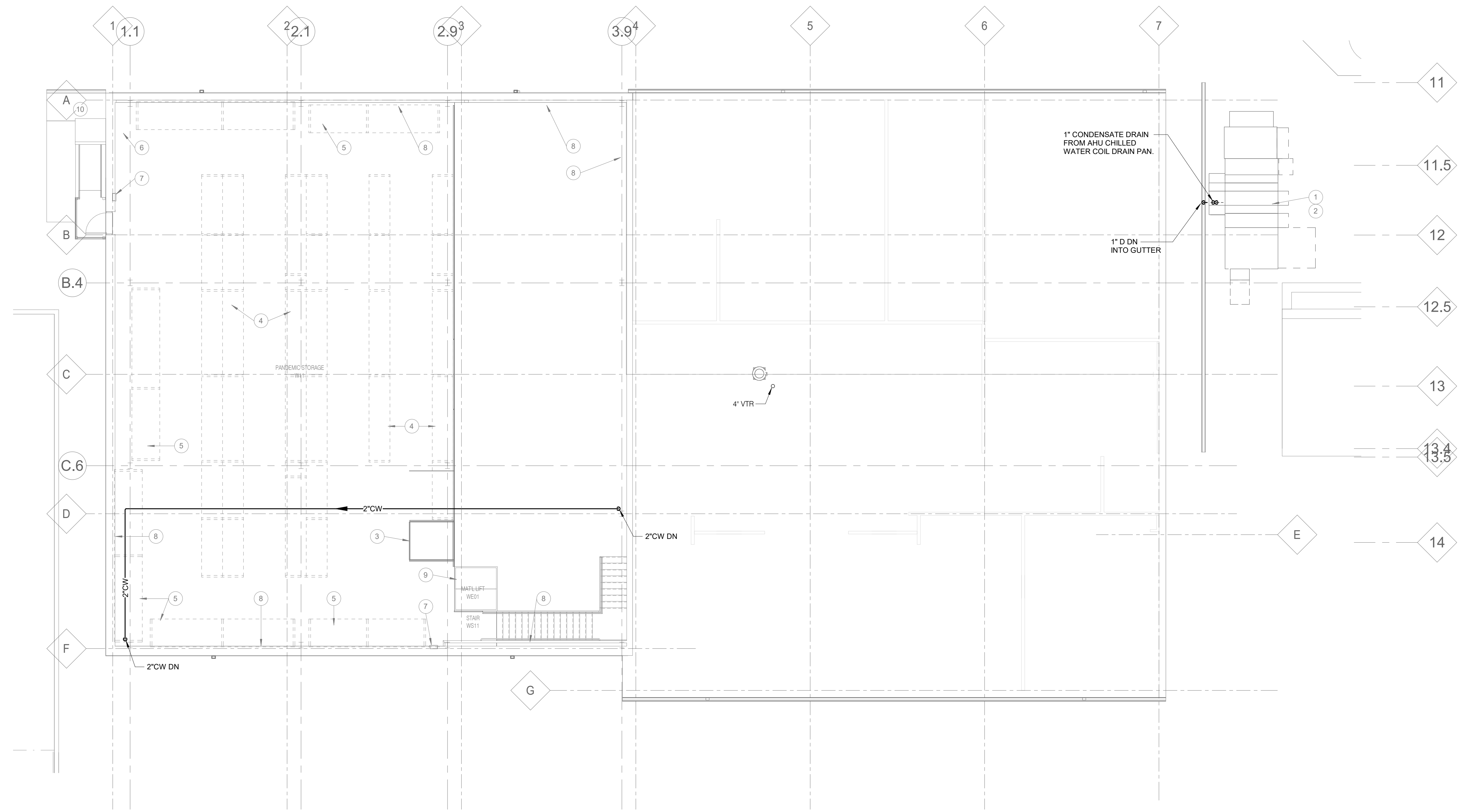
Issue Date
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Checked
 GORPAT

Drawn
 ANUSHA

Drawing Number
 P-101
 Dwg. # 56 of 94

SHEET NOTES:
 1. REFER TO ARCHITECTURAL PHASING DRAWINGS PH101, PH102, AND PH103 FOR ADDITIONAL INFORMATION.



1 MEZZANINE FLOOR PLAN - PLUMBING
 1/8" = 1'-0"

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 RUSSELL J. ARNOLD
 LICENSE # 3635
 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management
 VA U.S. Department of Veterans Affairs

Drawing Title
MEZZANINE FLOOR PLAN - PLUMBING

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
 800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
 03/24/2021

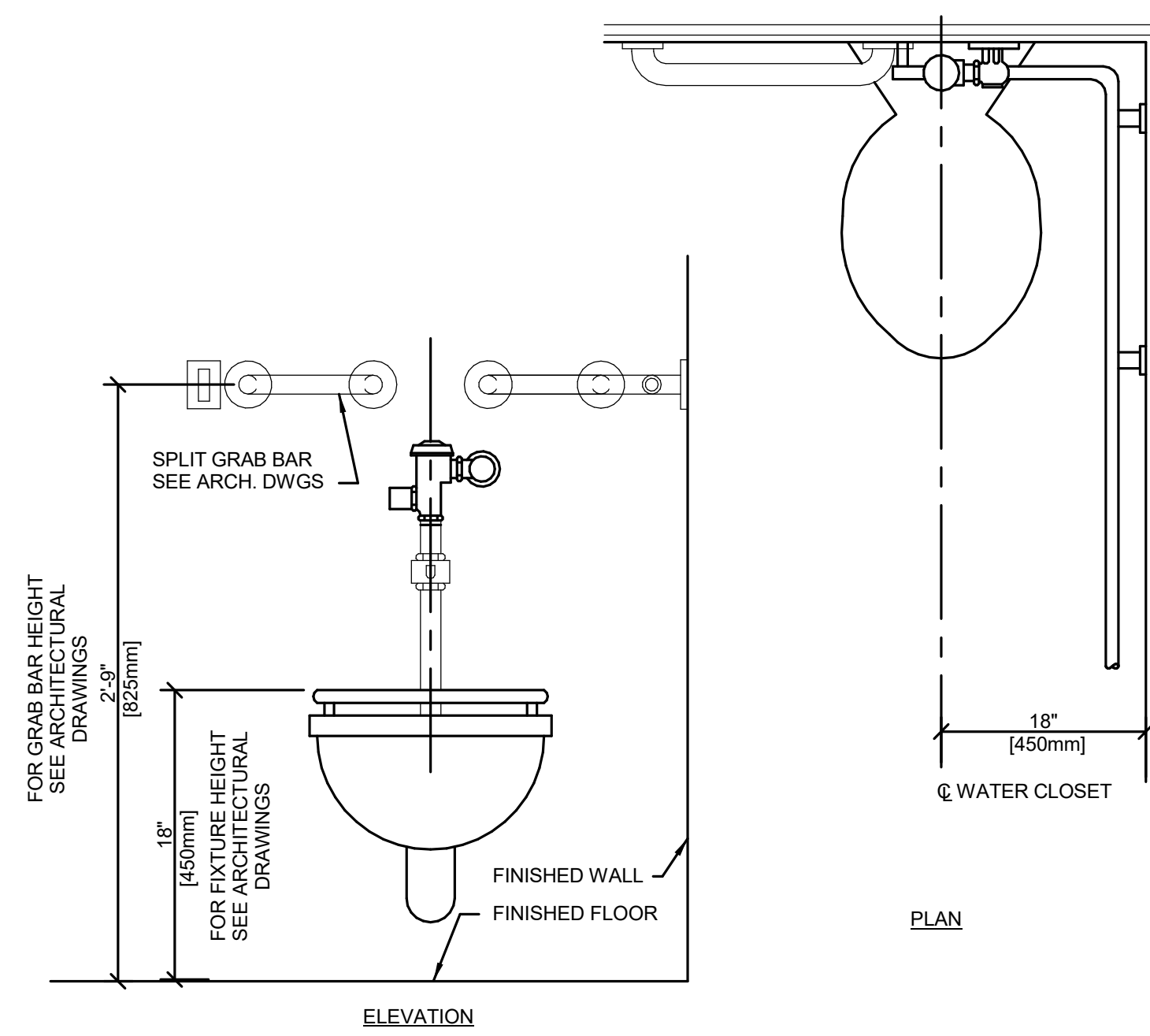
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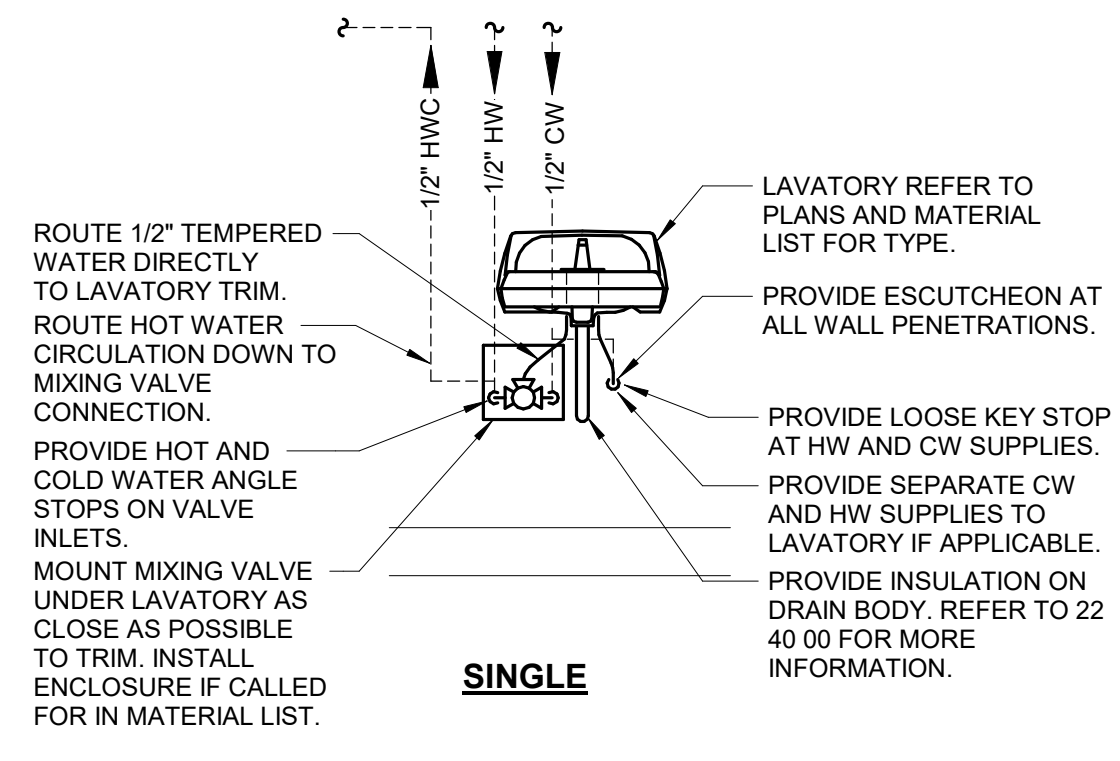
Project Number
589A4-20-158

Building Number
14

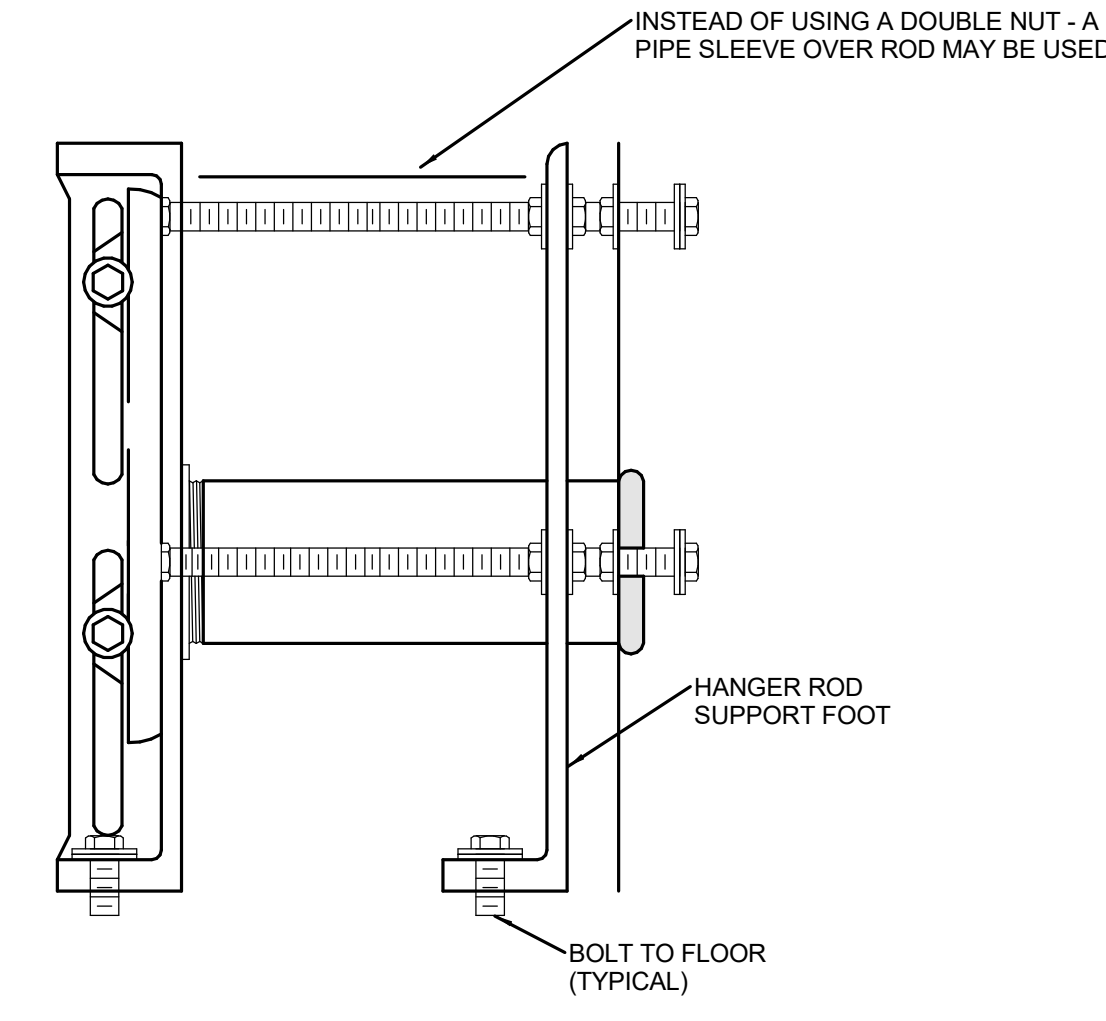
Drawing Number
P-102
 Dwg. # 57 of 94



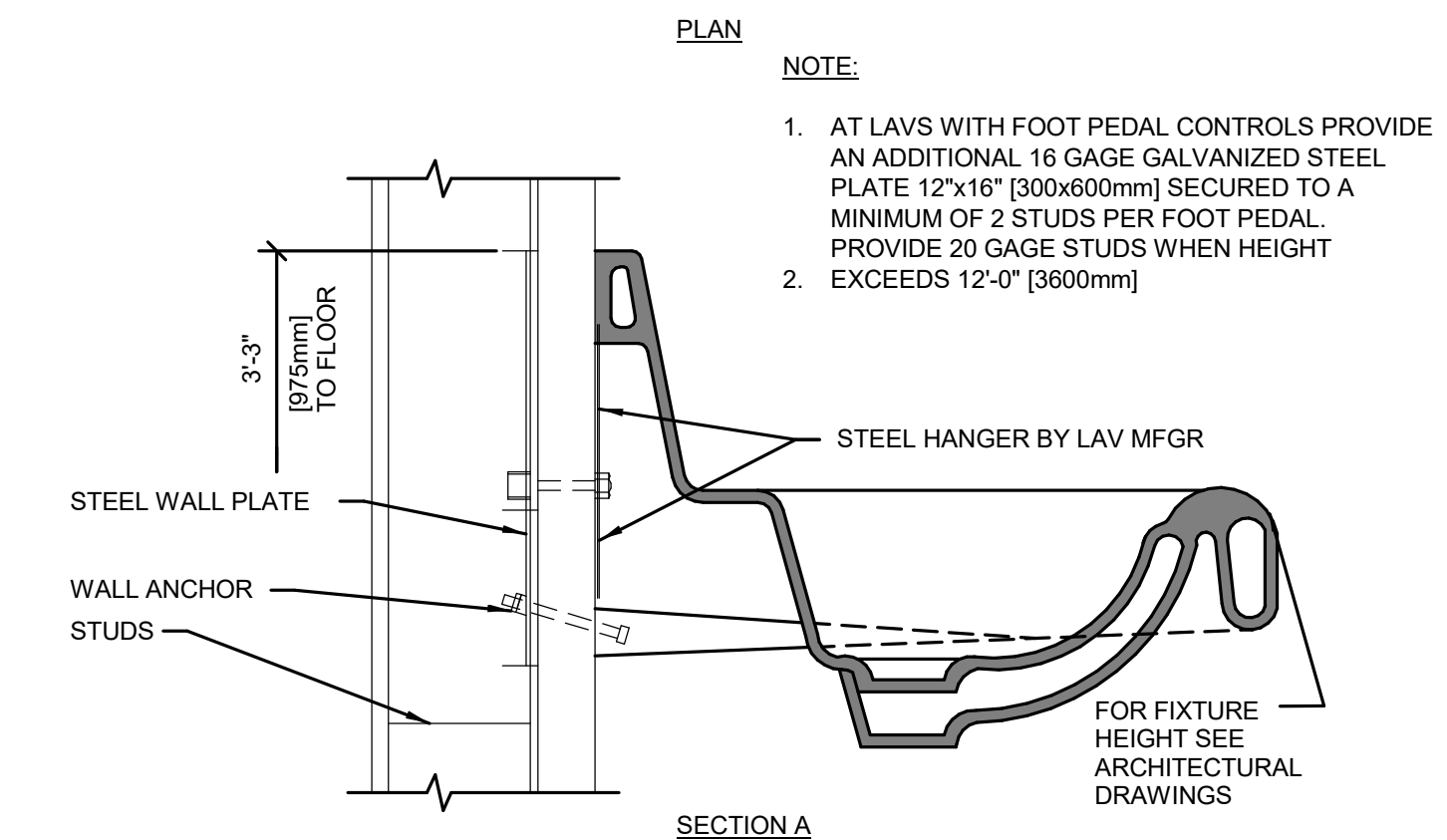
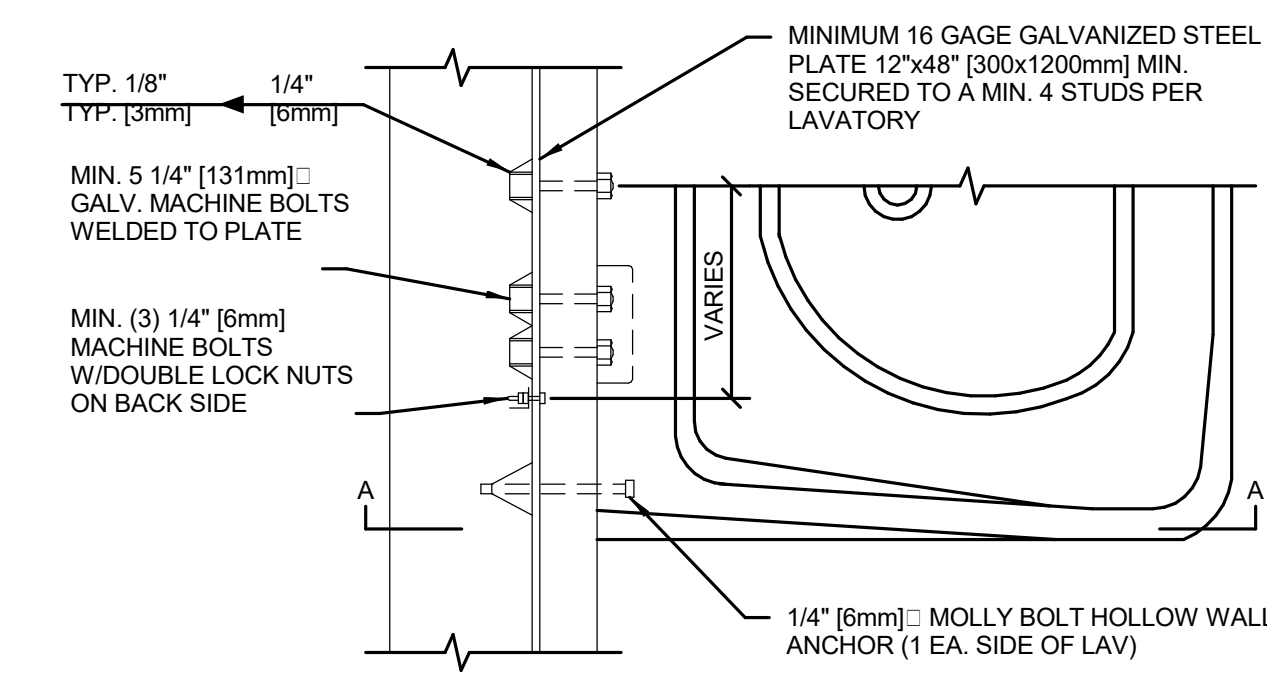
1 P-103 WATER CLOSET DETAIL



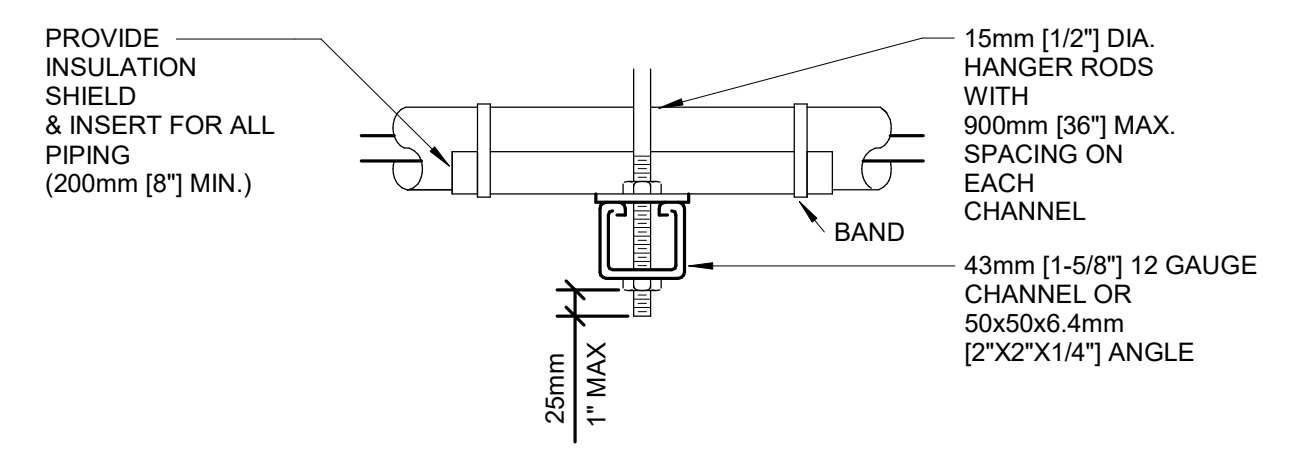
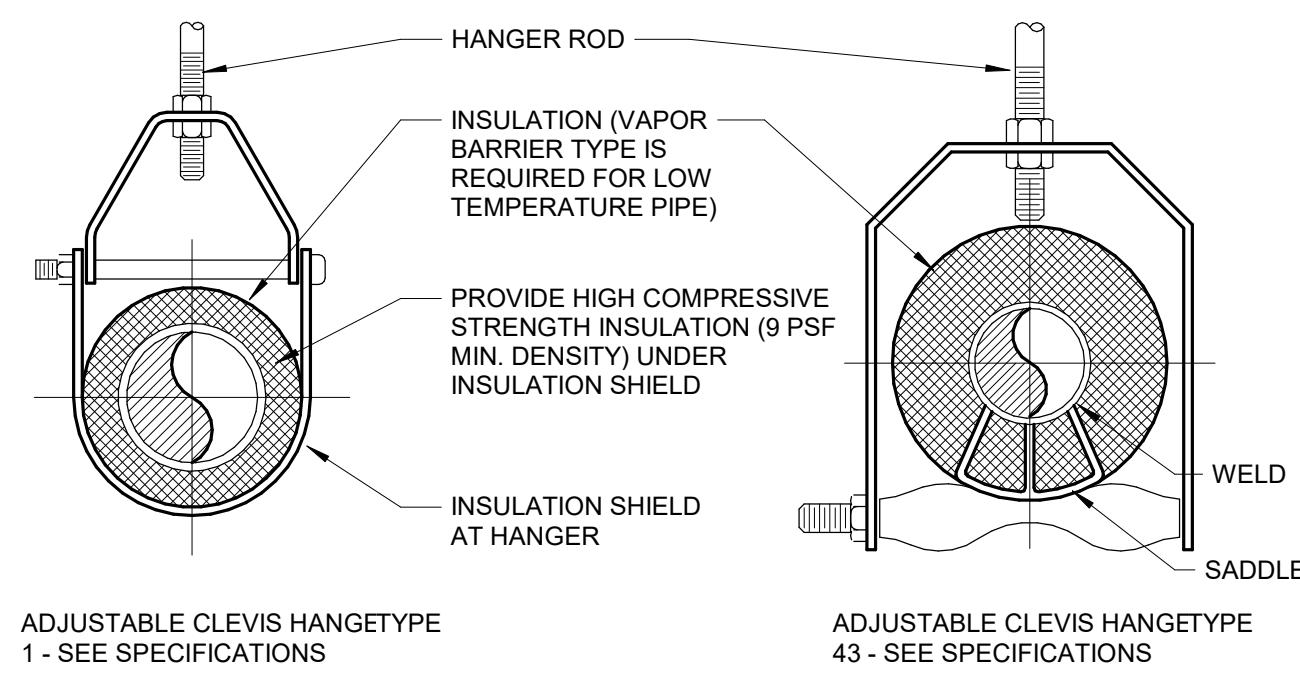
2 LAVATORY MIXING VALVE DETAIL
NO SCALE



3 INSTALLATION OF HANGER SUPPORT FOOT



4 LAVATORY MOUNTING DETAIL

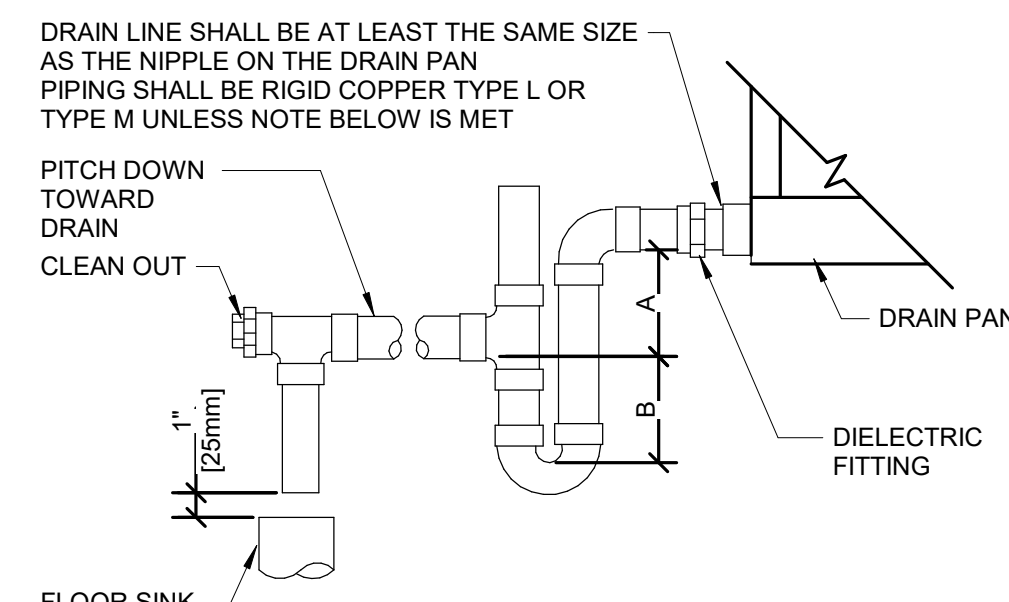


SIDE VIEW TRAPEZE HANGER FOR UP TO 453KG (1000 LB.) UNIFORM LOAD

NOM. SIZEmm [IN]	MAXIMUM PIPE/TUBING SUPPORT SPACING																							
	THRU 20 [3/4]	25 [1]	32 [1 1/4]	40 [1 1/2]	50 [2]	65 [2 1/2]	75 [3]	100 [4]	125 [5]	150 [6]	200 [8]	250 [10]	300 [12]	350 [14]	400 [16]	450 [18]	500 [20]	600 [24]						
PIPE mm [FT]	2100 [7]	2100 [7]	2100 [7]	2700 [9]	3000 [10]	3400 [11]	3700 [12]	4100 [14]	4900 [16]	5200 [17]	5800 [19]	6700 [22]	7000 [23]	7600 [25]	8200 [27]	8500 [28]	9100 [30]	9600 [32]						
TUBING mm [FT]	1500 [5]	1800 [6]	2100 [7]	2400 [8]	2700 [9]	3000 [10]	3700 [12]	4000 [13]	4100 [14]	4900 [16]														

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

5 PIPE HANGERS



NOTE 1. CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS.
2. DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.

UNIT TYPE	A	B
DRAW THRU	2" [50mm] PLUS X	X
BLOW THRU	1" [25mm] MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

6 AIR HANDLING UNIT DRAIN TRAP DETAIL

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BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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incandescence life safety
a fire protection engineering firm

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REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI
NO. 16336
EXPIRES 12/31/2021

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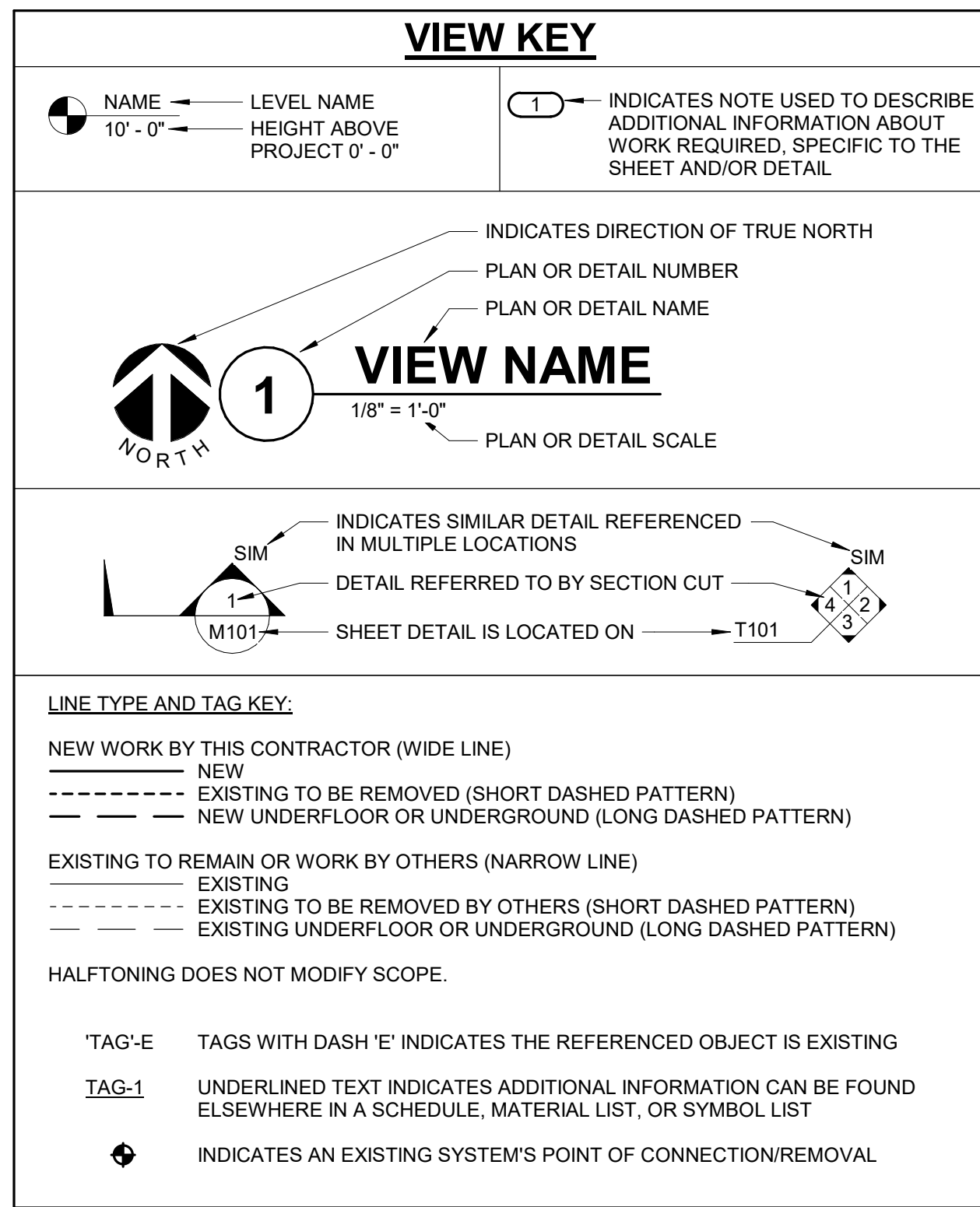
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ANUSHA

Project Number
589A4-20-158

Building Number
14

Drawing Number
P-300
Dwg. # 58 of 94



APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

BUILDING CODE:	IBC 2018 EDITION
FIRE CODE:	NFPA: 1 2018 EDITION
PLUMBING CODE:	IPC 2018 EDITION
MECHANICAL CODE:	IMC 2018 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2018 EDITION
ENERGY CONSERVATION CODE:	ASHRAE 90.1 2013
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
—CR	CONDENSER WATER RETURN
—CS	CONDENSER WATER SUPPLY
—CS15	CLEAN STEAM - NUMBER INDICATES PRESSURE IN PSIG
—CWR	CHILLED WATER RETURN
—CWS	CHILLED WATER SUPPLY
—DPP	DRAIN
—HWR	HEATING WATER RETURN
—HWS	HEATING WATER SUPPLY
—LCS	LOW PRESSURE CLEAN STEAM
—LPC	LOW PRESSURE CONDENSATE
—LPS	LOW PRESSURE STEAM
—LWR	LOOP WATER RETURN
—LWS	LOOP WATER SUPPLY
—PC	PUMPED CONDENSATE
—PD	PUMPED DISCHARGE
—RWR	REHEAT WATER RETURN
—RWS	REHEAT WATER SUPPLY
—SV	SAFETY RELIEF VENT
—	PIPE CAP
—	PIPE DOWN
—	PIPE UP OR UP/DOWN
—	PITCH PIPE IN DIRECTION
—	DIRECTION OF FLOW IN PIPE
—	DIELECTRIC CONNECTION
—	UNION/FLANGE
—	SHUTOFF VALVE NORMALLY OPEN
—	SHUTOFF VALVE NORMALLY CLOSED
—	THROTTLING VALVE
—	BALANCING VALVE (NUMBER INDICATES GPM)
—	AUTOMATIC BALANCING VALVE
—	MIXING VALVE
—	CONTROL VALVE (THREE-WAY)
—	CONTROL VALVE (TWO-WAY)
—	SOLENOID VALVE
—	CHECK VALVE
—	BACKFLOW PREVENTER
—	SAFETY/RELIEF VALVE
—	PRESSURE REDUCING VALVE (LIQUID/GAS)
—	PRESSURE REDUCING VALVE (STEAM)
—	TRIPLE DUTY VALVE (ANGLE TYPE)
—	TRIPLE DUTY VALVE (IN-LINE TYPE)
—	PUMP
—	VACUUM BREAKER
—	"WYE" - STRAINER
—	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
—	BASKET STRAINER
—	FLEXIBLE CONNECTION
—	PRESSURE/TEMPERATURE TEST PLUG
—	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
—	SUCTION DIFFUSER WITH SUPPORT FOOT
—	AUTOMATIC AIR VENT
—	MANUAL AIR VENT
—	DRAIN VALVE WITH HOSE CONNECTION AND CAP
—	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)
—	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
—	DIFFERENTIAL PRESSURE SENSOR
—	STATIC SWITCH
—	FLOW METER

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
—	DIRECTION OF AIR FLOW
—	FLEXIBLE DUCT
—	MANUAL VOLUME DAMPER
—	RISE IN DIRECTION OF AIR FLOW
—	DROP IN DIRECTION OF AIR FLOW
—	DUCT CAP
—	DUCT DOWN
—	DUCT UP
—	SUPPLY/OUTSIDE AIR DUCT SECTION
—	RETURN AIR DUCT SECTION
—	EXHAUST/RELIEF AIR DUCT SECTION
—	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
—	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
—	TERMINAL AIR BOX (REFER TO SCHEDULE)
—	TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
—	HUMIDIFIER
—	OPPOSED BLADE DAMPER (REFER TO SCHEDULE)
—	PARALLEL BLADE DAMPER (REFER TO SCHEDULE)
—	DIFFERENTIAL PRESSURE SENSOR
—	HUMIDISTAT SENSOR
—	HUMIDISTAT / SENSOR
—	CARBON MONOXIDE SENSOR
—	CARBON DIOXIDE SENSOR
—	OCCUPANCY SENSOR
—	PRESSURE SENSOR/MONITOR
—	PRESSURE SENSOR (DUCT MOUNTED)
—	THERMOSTAT/SENSOR
—	TEMPERATURE SENSOR
—	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE
—	TEMPERATURE SENSOR WITH WELL
—	THERMOMETER WITH WELL (DIAL TYPE)
—	THERMOMETER WITH WELL (FILLED TYPE)
—	AIRFLOW MEASUREMENT SYMBOL
—	XX - AHU SYMBOL
—	Y - SEQUENTIAL NUMBER
—	FLOW SWITCH
—	FLOW SENSOR
—	STEAM TRAP (REFER TO SCHEDULE)
—	F&T STEAM TRAP (REFER TO SCHEDULE)
—	INVERTED BUCKET STEAM TRAP (REFER TO SCHEDULE)
—	ALIGNMENT GUIDE
—	PIPE ANCHOR
—	EXPANSION JOINT
—	#/# IS THE EXPANSION TRAVEL INCHES
—	METER

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
- WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGES TO NEW SYSTEMS WITH MINIMUM OUTAGE.
- DISCONNECT AND REMOVE MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

MECHANICAL PHASING NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- REFER TO DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK.
- MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
- REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
- PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
- INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT.
- PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

MECHANICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
C	COMMON
CO	CLEANOUT
CFSD	CONTROL/FIRE/SMOKE DAMPER
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EA	EXHAUST/RELIEF AIR
ECFSD	EXISTING CONTROL FIRE SMOKE DAMPER
EFD	EXISTING FIRE DAMPER
EFSD	EXISTING FIRE SMOKE DAMPER
EP	ELECTRICAL TO PNEUMATIC VALVE
ESD	EXISTING SMOKE DAMPER
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
MA	MIXED AIR
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
PS	PRESSURE SWITCH
RA	RETURN AIR
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UNO	UNLESS NOTED OTHERWISE

PIPING GENERAL NOTES:

- THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
- PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.

VENTILATION GENERAL NOTES:

- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL BE THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN FIFTEEN (15) FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE AS SHOWN ON PLANS.
- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.
- ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.
- PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.
- EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY.

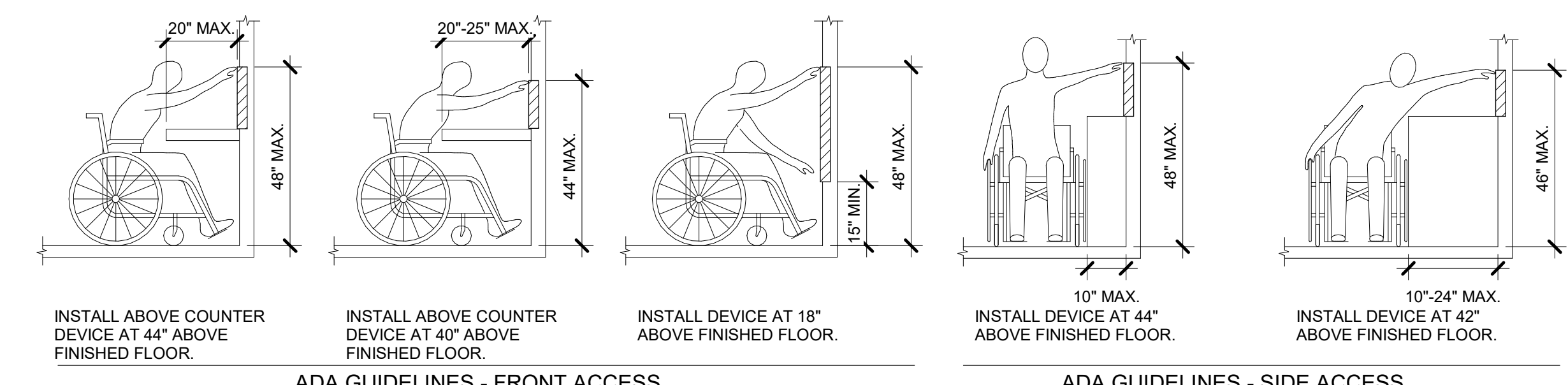
MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO PLUMBING, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC. AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
- CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NO LEVELS WITHIN ROOMS.
- WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
- MAINTAIN MINIMUM 3'-6" CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
- PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL, DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

TAB POST-CONSTRUCTION NOTES:

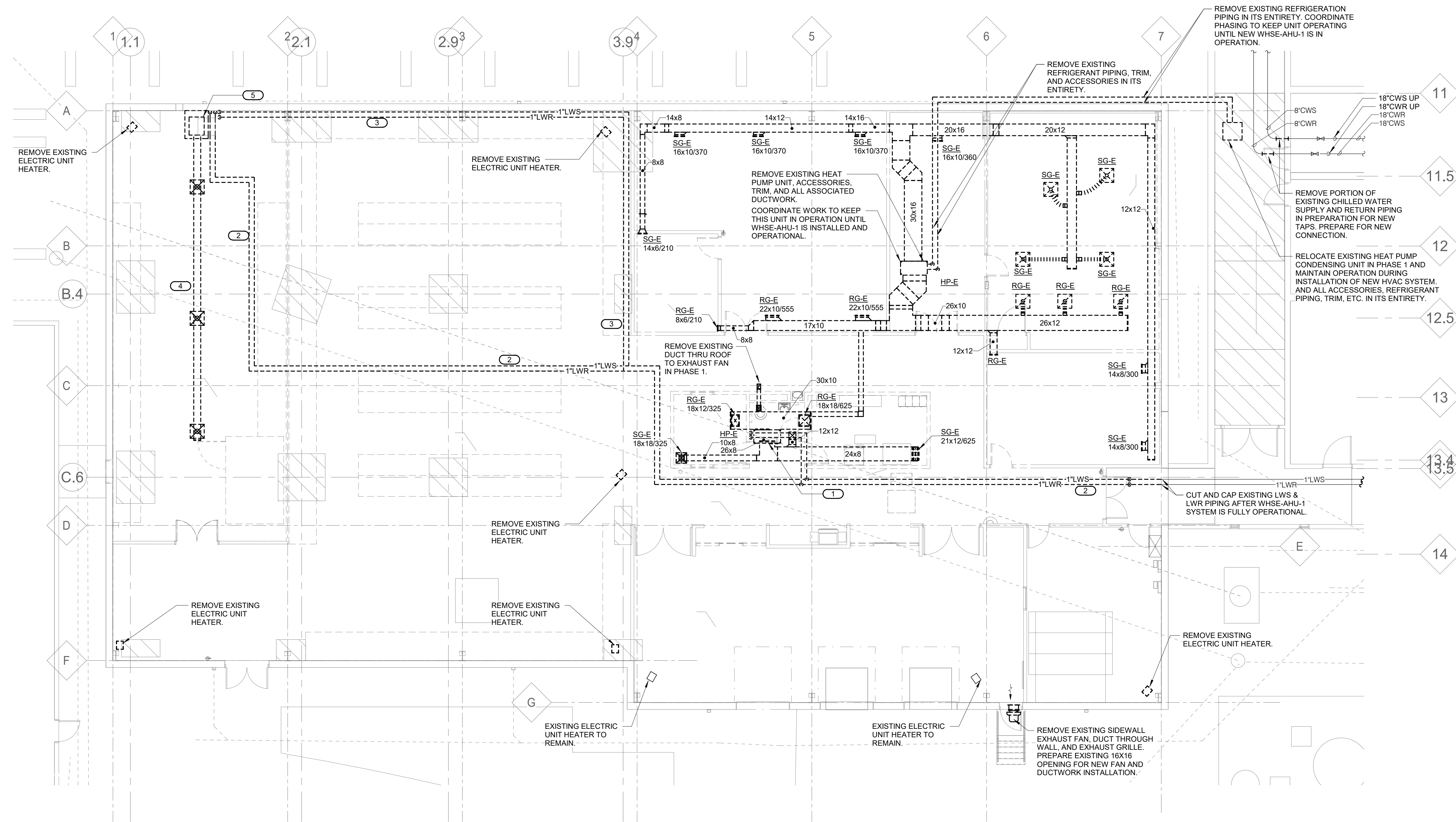
- AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL BALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
- TAB CONTRACTOR SHALL COMPARE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
- THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.



ADA STANDARDS FOR ACCESSIBLE DESIGN

ARCHITECT/ENGINEER OF RECORD Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elkhor, Nebraska 68022 Phone: 402.291.6941 Fax: 402.291.9193		IMEG INCORPORATED 15 Summit Drive, Suite 104 St. Louis, MO 63143 Phone: (314) 954-2534		STAMP STATE OF MISSOURI RUSSELL J. ARNSON LICENSE # 12-8636 REGISTERED PROFESSIONAL ENGINEER		Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		Drawing Title MECHANICAL COVERSHEET		Phase BID SET		Project Title RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS		Project Number 589A4-20-158	
BID SET Revisions:		03/24/2021 Date:		CLH Calvin L. Hinz ARCHITECTS, P.C.		incandescence life safety a fire protection engineering firm		Approved:		FULLY SPRINKLERED		Location HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201		Building Number 14	
										Issue Date 03/24/2021		Checked JASSNE		Drawn ANUSHA	
												Drawing Number M-000		Dwg. # 59 of 94	

- SHEET NOTES:**
- REFER TO ARCHITECTURAL PHASING DRAWINGS PH101, PH102, AND PH103 FOR ADDITIONAL INFORMATION.
- KEYNOTES: (C #)**
- REMOVE EXISTING HEAT PUMP, ACCESSORIES, TRIM, HANGERS, BRACKETS, ALL ASSOCIATED DUCTWORK ETC. IN ITS ENTIRETY AS PART OF PHASE 1. REMOVE WATER SOURCE PIPING BACK TO MAINS AND CAP AS PART OF PHASE 1.
 - EXISTING WATER SOURCE LOOP PIPING LOCATION.
 - RE-ROUTE WATER SOURCE LOOP PIPING AS SHOWN FOR TEMPORARY OPERATION OF WSPH IN ROOM W03 UNTIL NEW WSHE-AHU-1 SYSTEM IS FULLY OPERATIONAL.
 - REMOVE EXISTING DUCTWORK SYSTEM IN ITS ENTIRETY AS PART OF PHASE 1. PROVIDE TEMPORARY DUCTWORK WITH HORIZONTAL DISCHARGE TO MAINTAIN TEMPERATURE CONTROL OF ROOM W03 UNTIL WSHE-AHU-1 SYSTEM IS FULLY OPERATIONAL.
 - REMOVE EXISTING HEAT PUMP, ACCESSORIES, WATER PUMP, ASSOCIATED PIPING, ETC. IN ITS ENTIRETY AFTER NEW WSHE-AHU-1 SYSTEM IS FULLY OPERATIONAL.



1 FIRST FLOOR PLAN - MECHANICAL DEMOLITION
1/8" = 1'-0"

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STAMP

STATE OF MISSOURI
RUSSELL J. ARNOLD
Professional Engineer
No. 14-3636
Expiration 12/31/2024

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FIRST FLOOR PLAN - MECHANICAL DEMOLITION

Approved:

Phase
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FULLY SPRINKLERED

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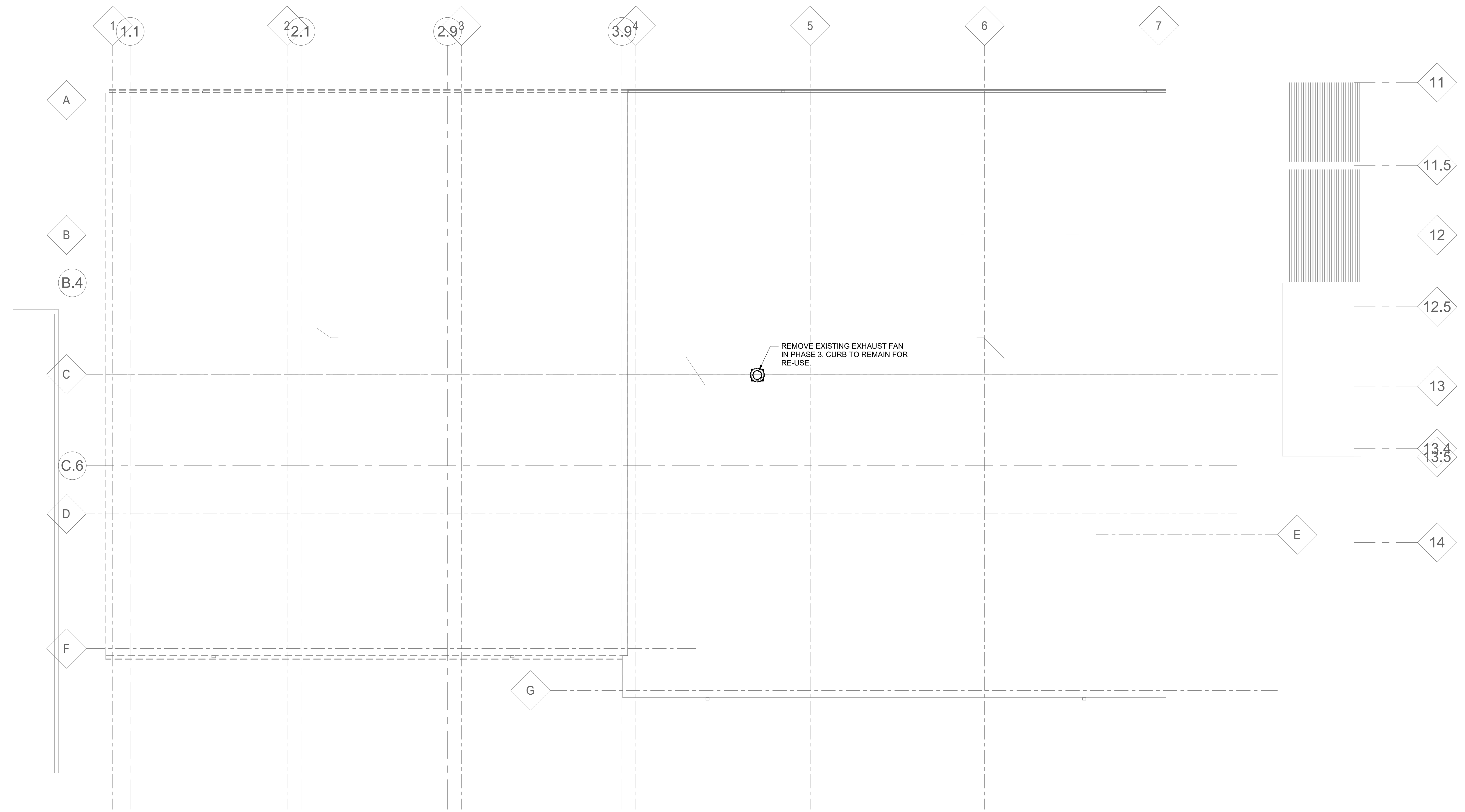
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Drawing Number
MD101
Dwg. # 60 of 94

SHEET NOTES:
 1. REFER TO ARCHITECTURAL PHASING DRAWINGS PH101, PH102, AND PH103 FOR ADDITIONAL INFORMATION.



1 ROOF PLAN - MECHANICAL DEMOLITION
 1/8" = 1'-0"

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 RUSSELL J. ARMSCON
 LICENSE # 8635
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
 ROOF PLAN - MECHANICAL DEMOLITION

Approved:

Phase
 BID SET

FULLY SPRINKLERED

Project Title
 RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
 HARRY S. TRUMAN MEM. VETERANS HOSPITAL
 800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
 03/24/2021

Checked
 JASSNE

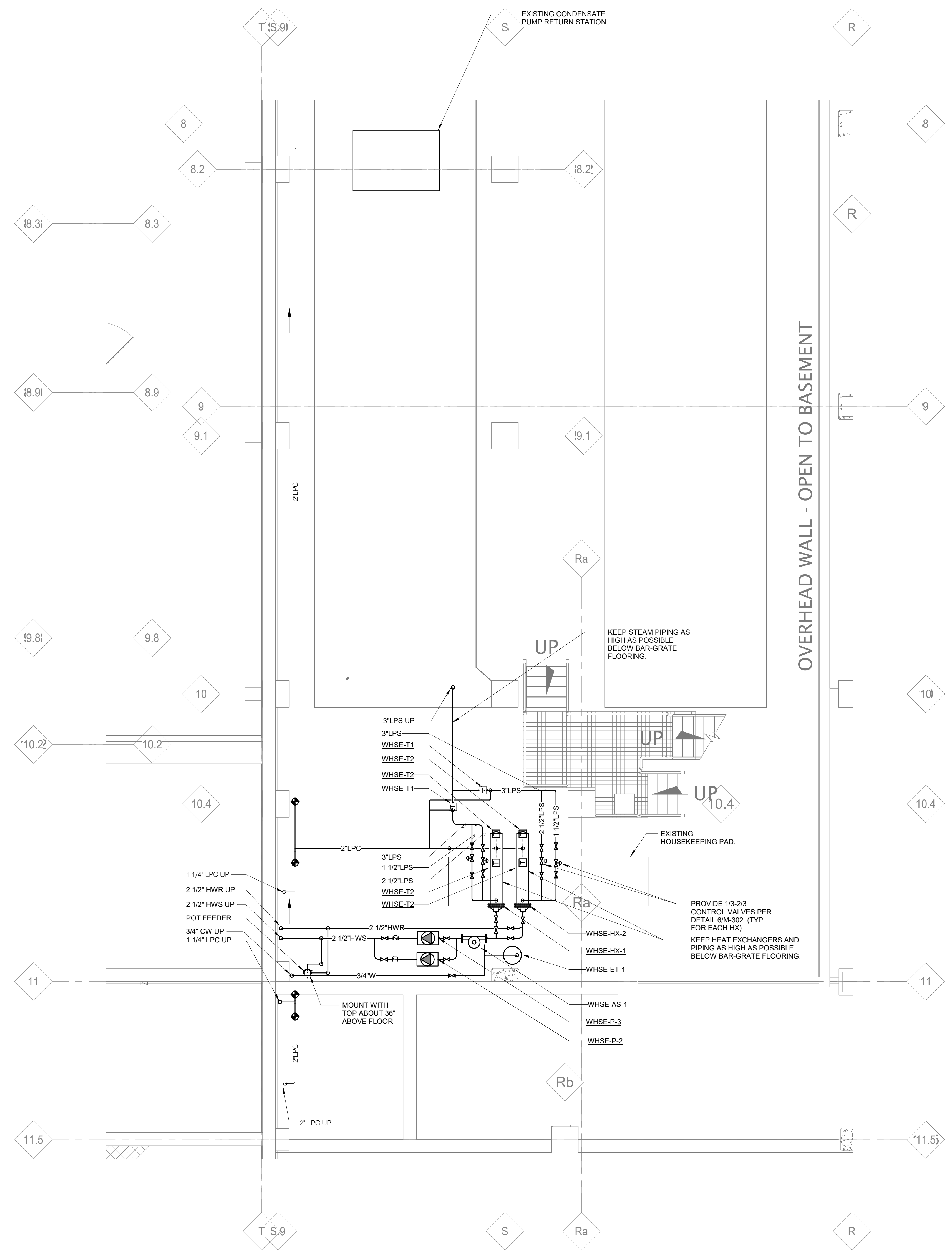
Drawn
 ANUSHA

Project Number
 589A4-20-158

Building Number
 14

Drawing Number
 MD102
 Dwg. # 61 of 94

SHEET NOTES:
 1. REFER TO ARCHITECTURAL PHASING DRAWINGS PH101, PH102, AND PH103 FOR ADDITIONAL INFORMATION.



1 BUILDING 1 BASEMENT PLAN - MECHANICAL
 1/4" = 1'-0"

NOTE: ALL WORK ON THIS SHEET SHALL BE COMPLETED IN PHASE 1.

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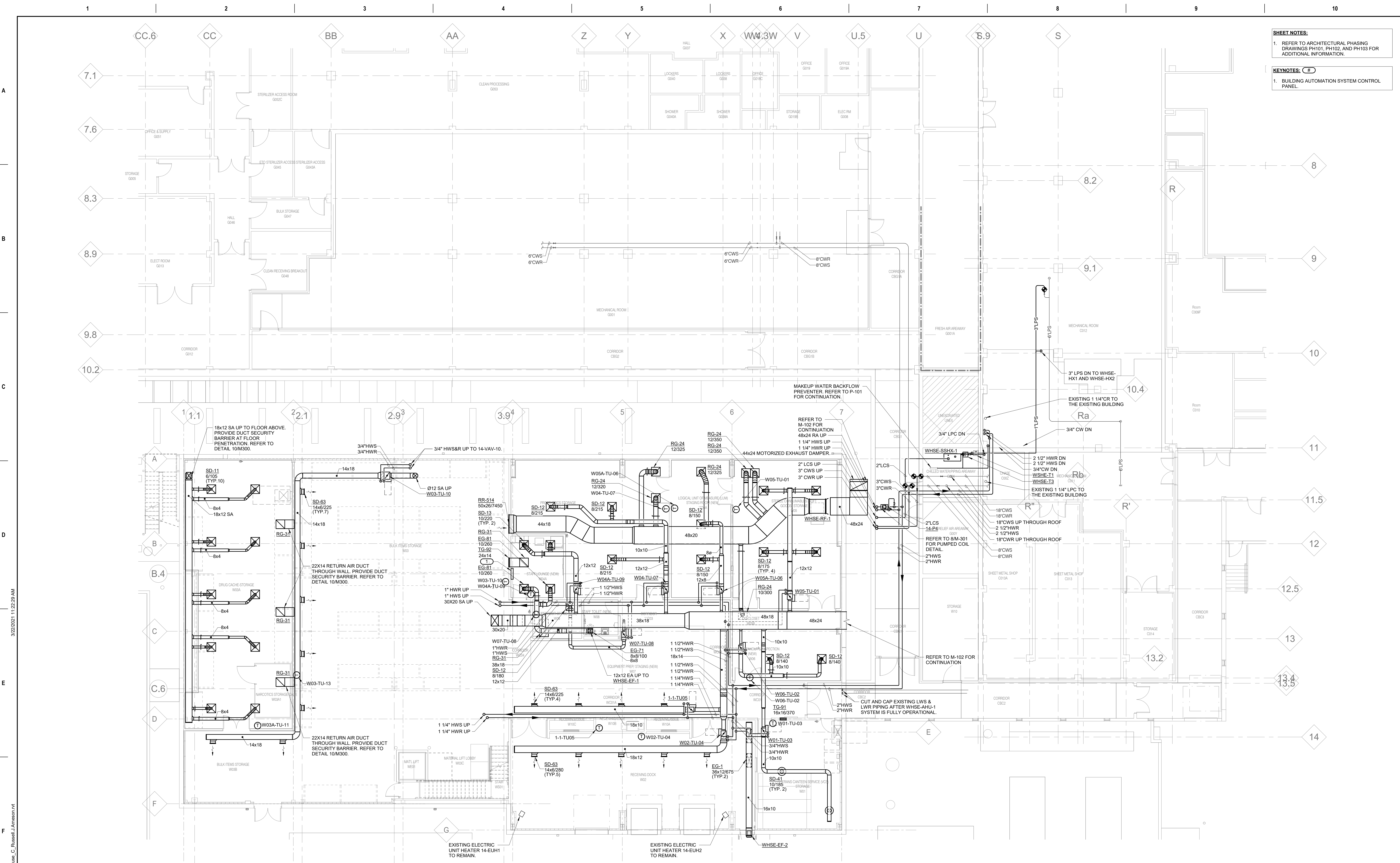
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Approved:	

Phase	BID SET
	FULLY SPRINKLERED

Project Title	RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS
Location	HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201
Issue Date	03/24/2021
Checked	JASSNE
Drawn	ANUSHA

Project Number	589A4-20-158
Building Number	14
Drawing Number	M-100
	Dwg. # 62 of 94

SHEET NOTES:
 1. REFER TO ARCHITECTURAL PHASING DRAWINGS PH101, PH102, AND PH103 FOR ADDITIONAL INFORMATION.
KEYNOTES: (R)
 1. BUILDING AUTOMATION SYSTEM CONTROL PANEL.



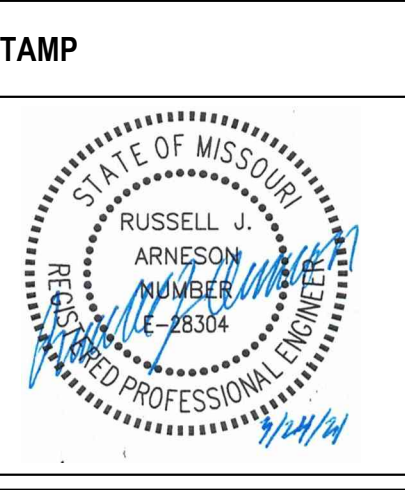
FIRST FLOOR PLAN - MECHANICAL
 1/8" = 1'-0"

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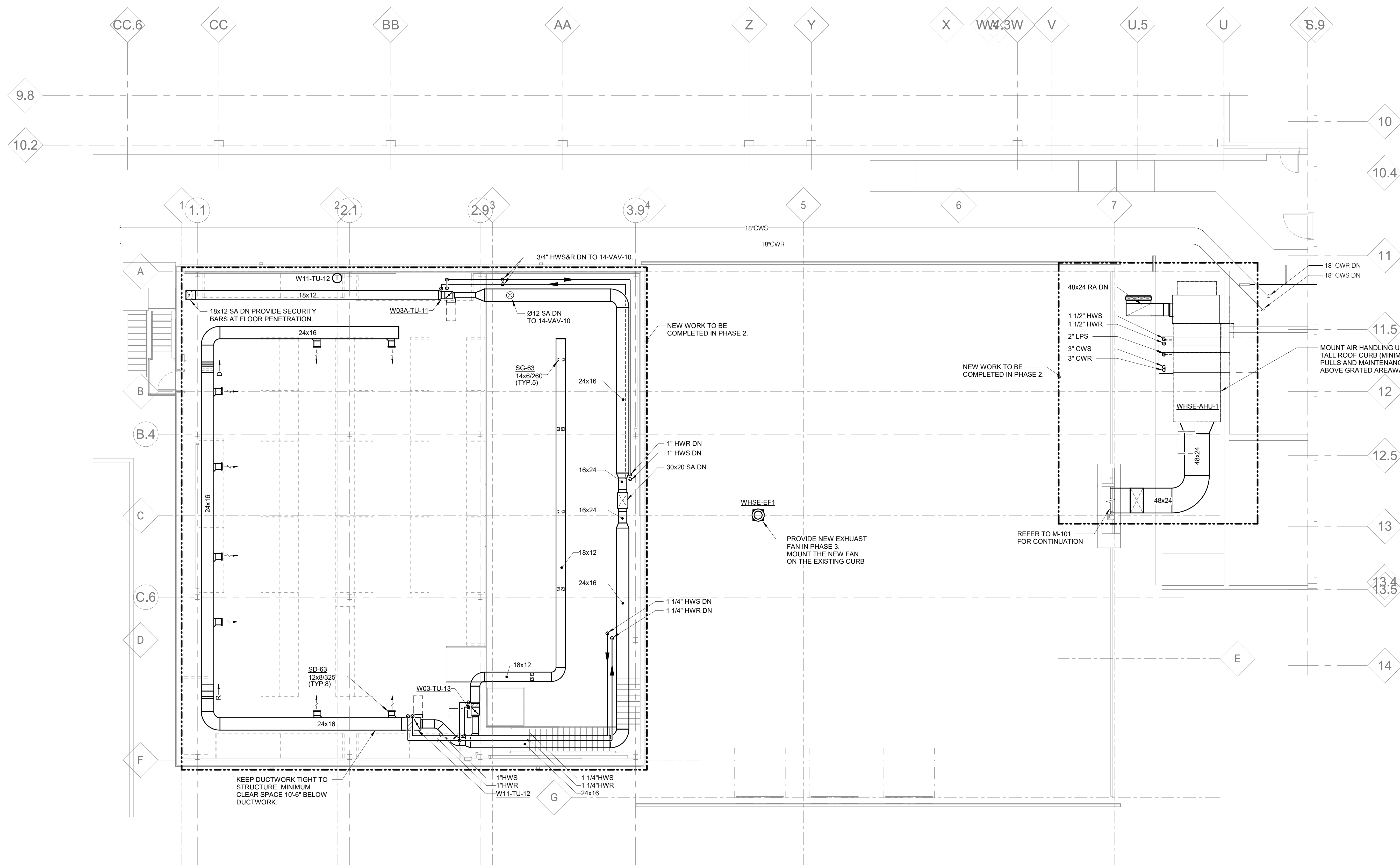
Office of Construction and Facilities Management
 VA U.S. Department of Veterans Affairs

Drawing Title	FIRST FLOOR PLAN - MECHANICAL
Approved:	

Phase	BID SET
	FULLY SPRINKLERED

Project Title	RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS
Project Number	589A4-20-158
Building Number	14
Drawing Number	M-101
Dwg. #	63 of 94

SHEET NOTES:
 1. REFER TO ARCHITECTURAL PHASING DRAWINGS PH101, PH102, AND PH103 FOR ADDITIONAL INFORMATION.



MEZZANINE FLOOR PLAN - MECHANICAL
 1/8" = 1'-0"

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STATE OF MISSOURI
 RUSSELL J. ARNSON
 LICENSE # 3630
 MECHANICAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
 MEZZANINE FLOOR PLAN - MECHANICAL

Approved:

Phase
 BID SET

FULLY SPRINKLERED

Project Title
 RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
 HARRY S. TRUMAN MEM. VETERANS HOSPITAL
 800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
 03/24/2021

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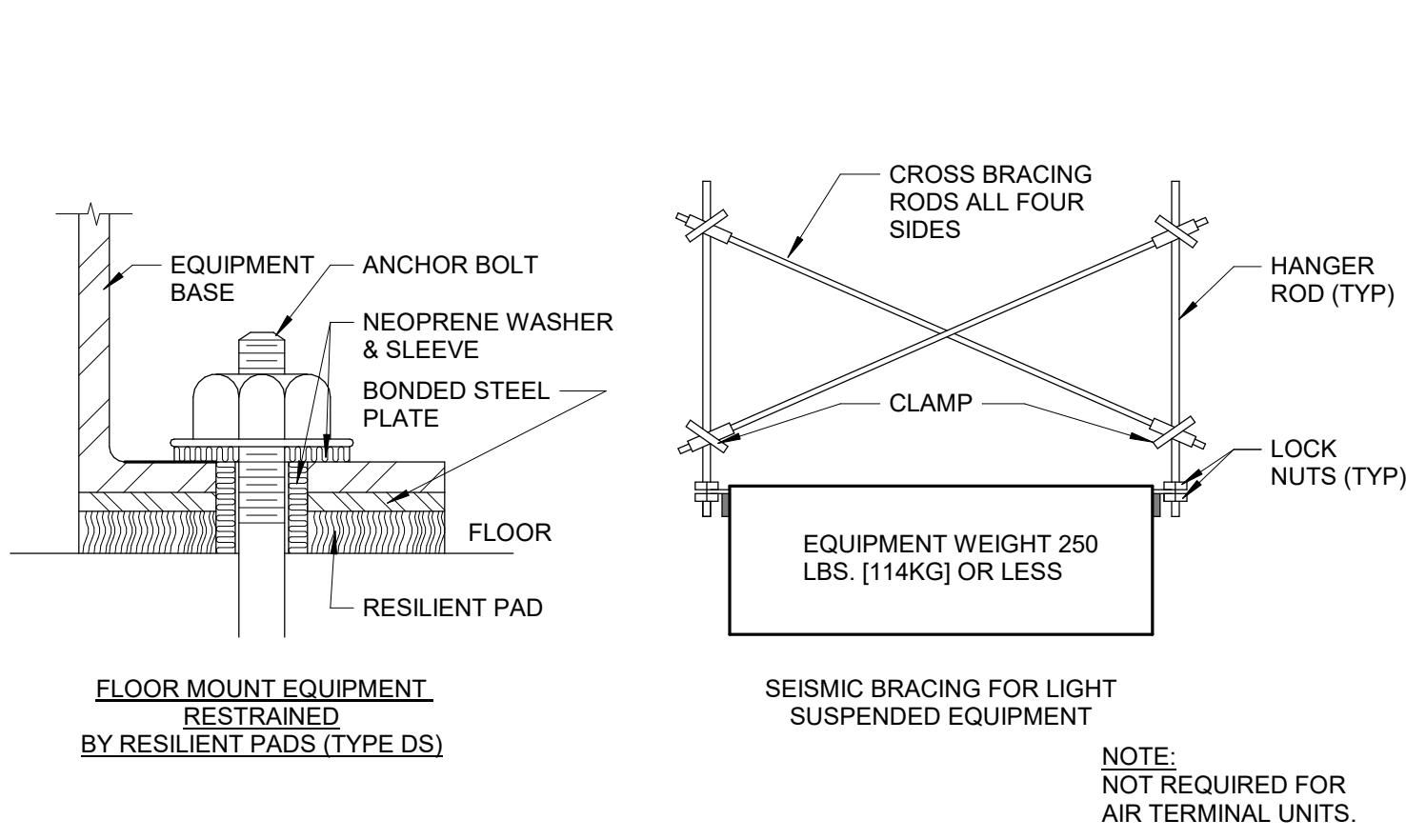
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Project Number
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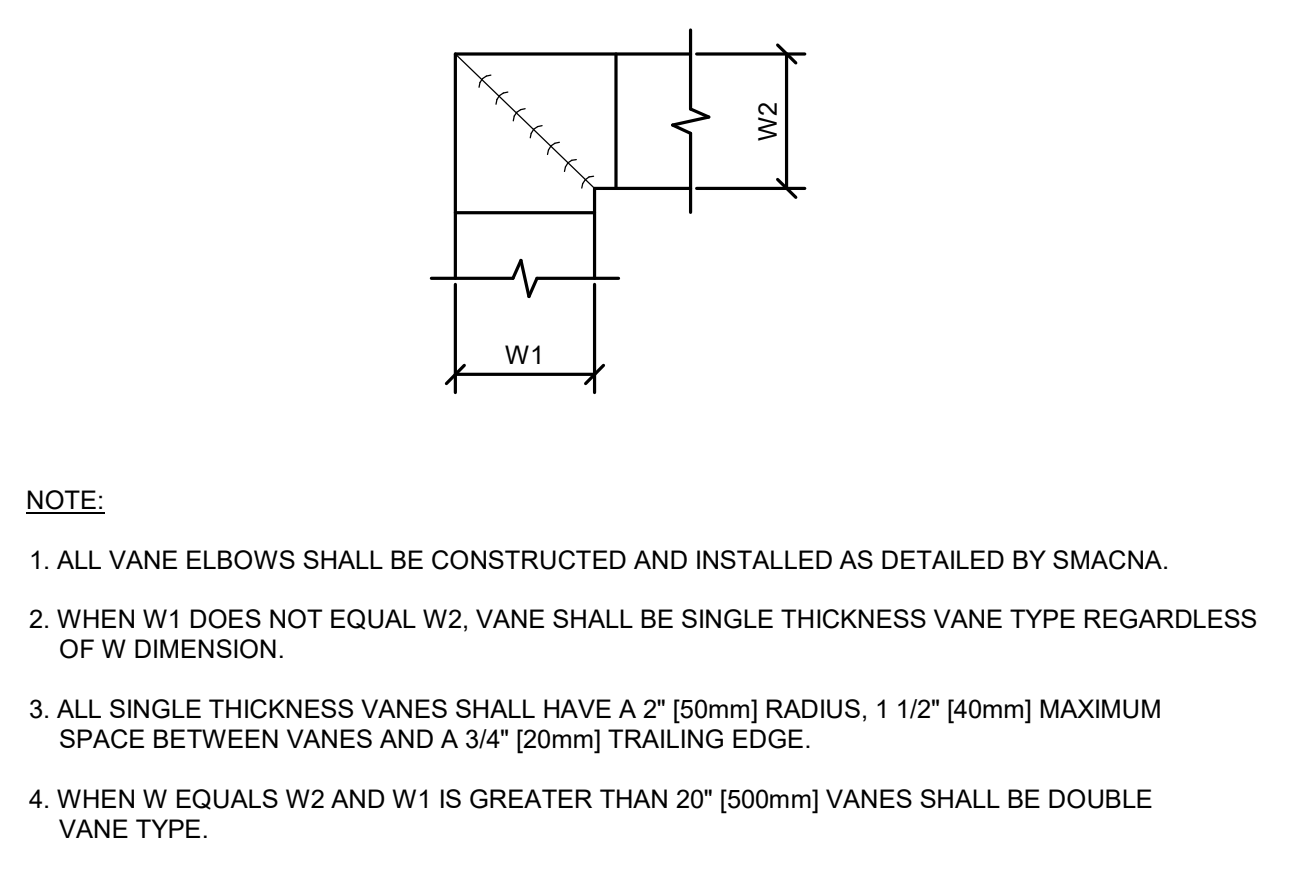
Building Number
 14

Drawing Number
 M-102
 Dwg. # 64 of 94

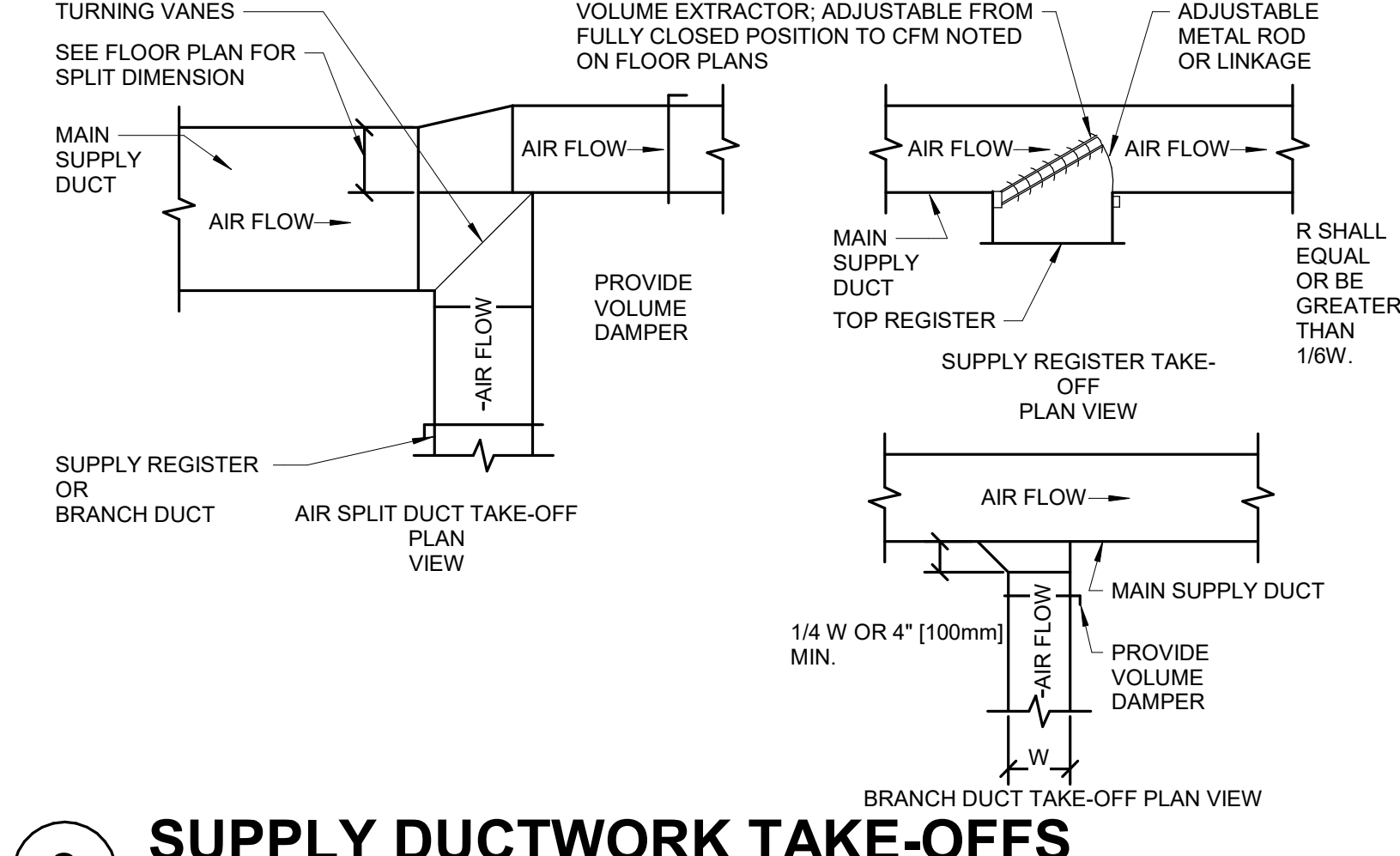
1 SEISMIC BRACING FOR EQUIPMENT



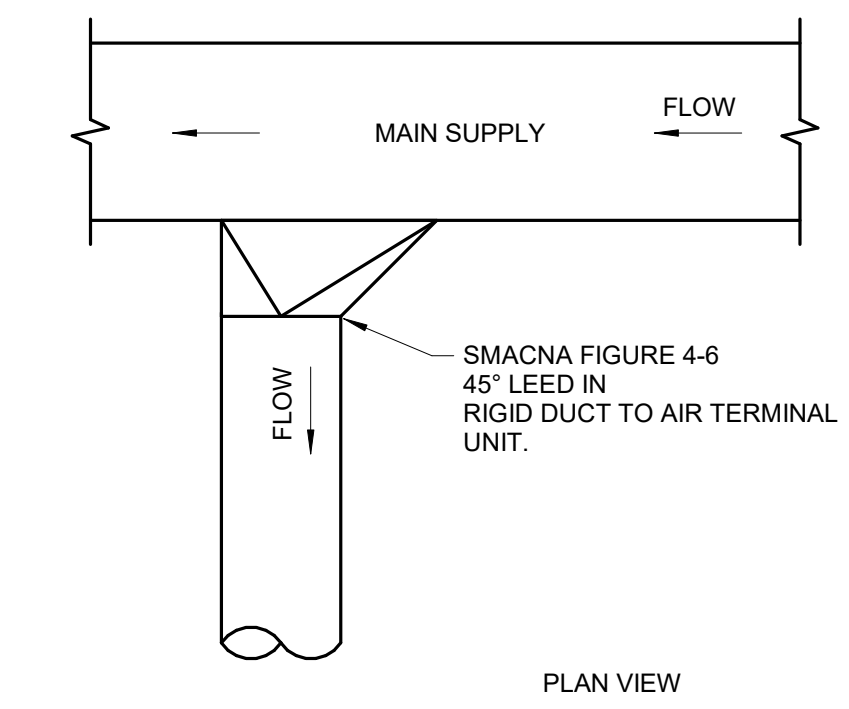
2 DUCTWORK SQUARE VANE ELBOWS



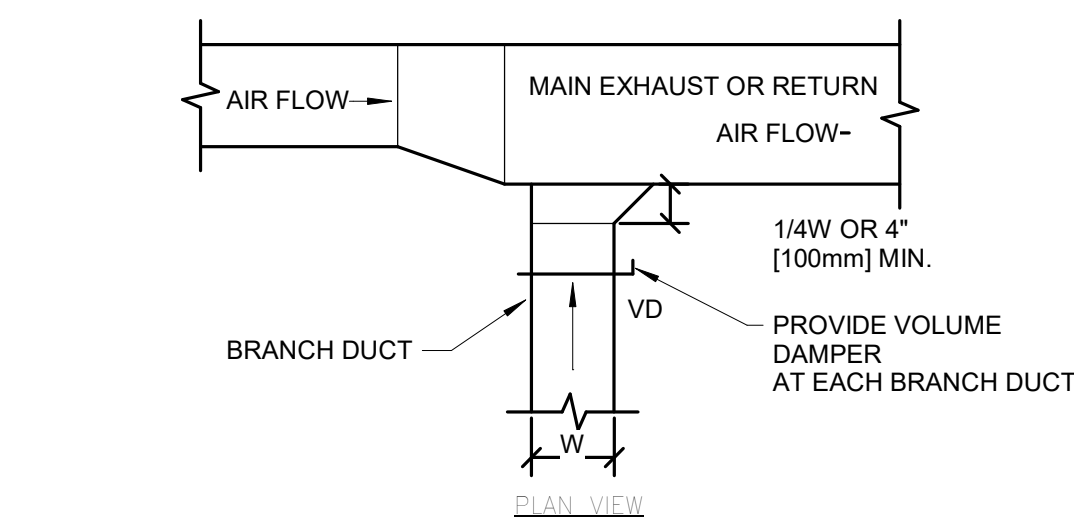
3 SUPPLY DUCTWORK TAKE-OFFS



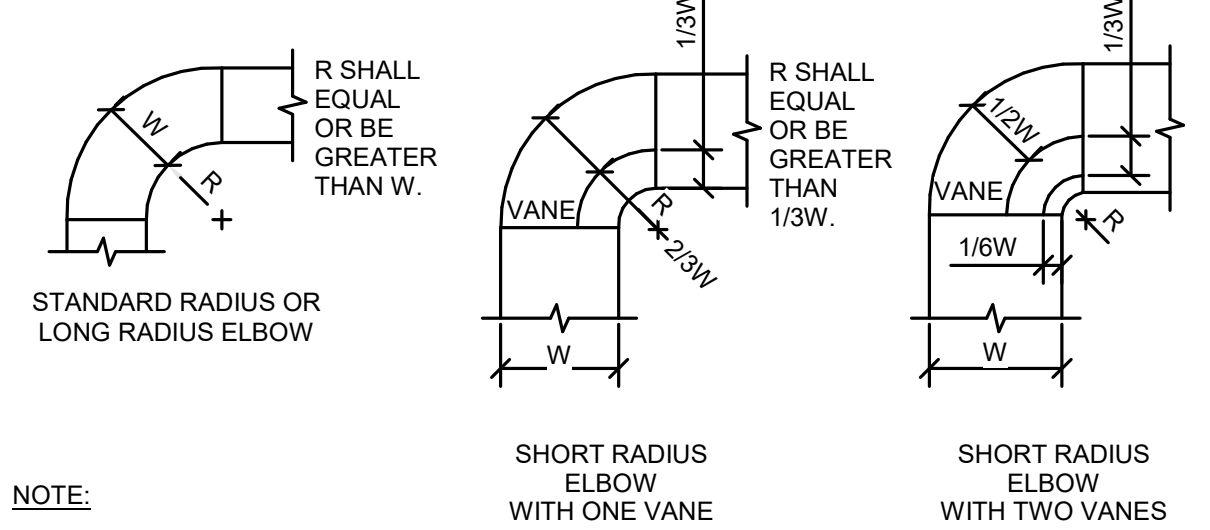
4 ALTERNATE SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS



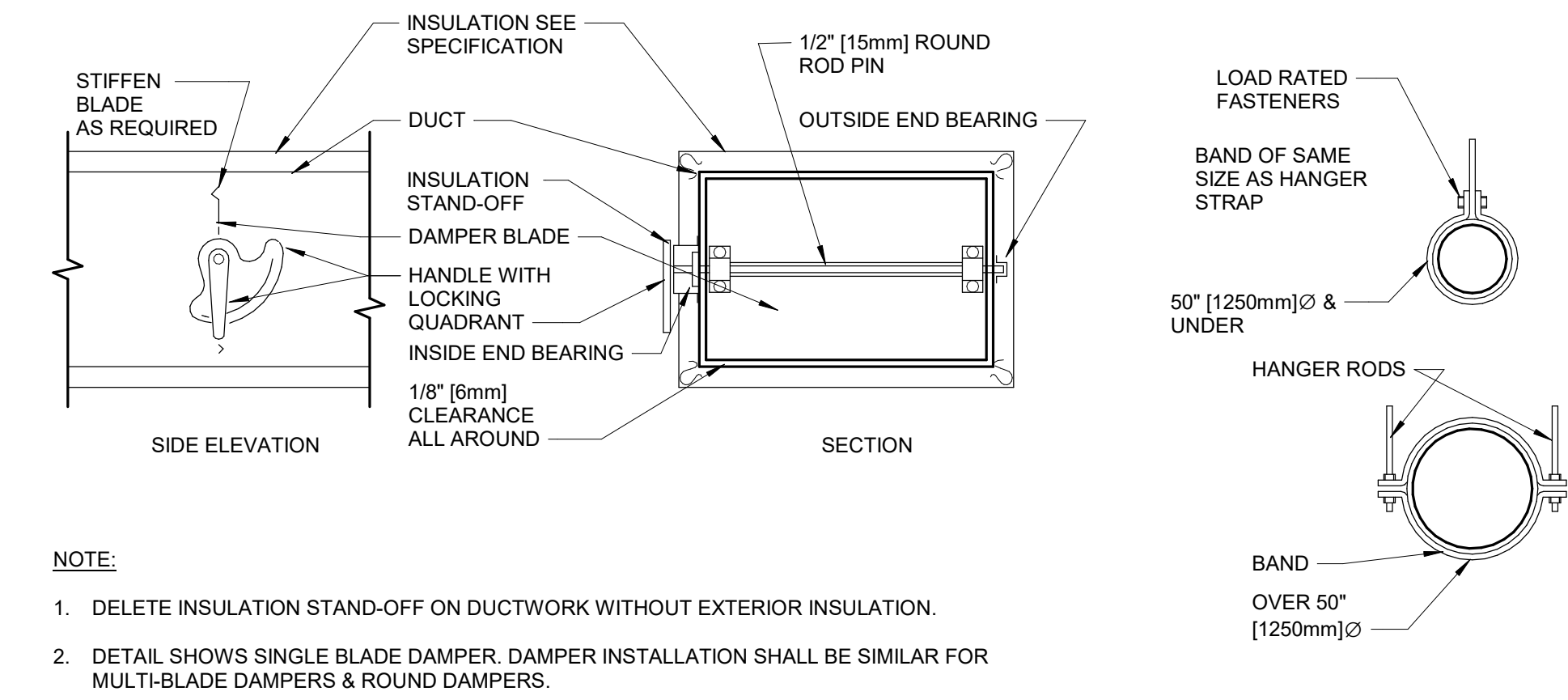
5 EXHAUST OR RETURN BRANCH DUCTWORK



6 DUCTWORK RADIUS ELBOWS

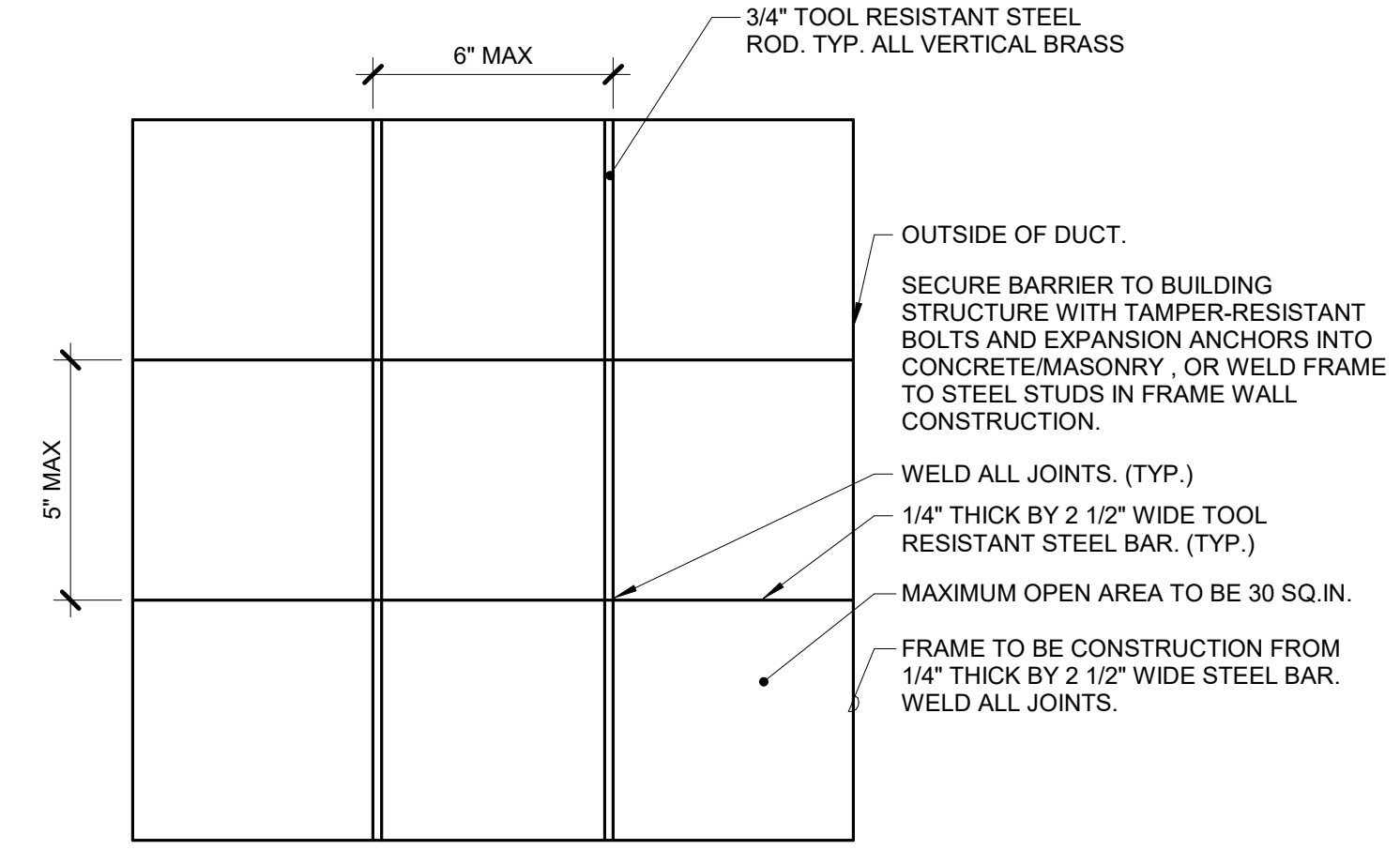


7 VOLUME DAMPER DETAIL

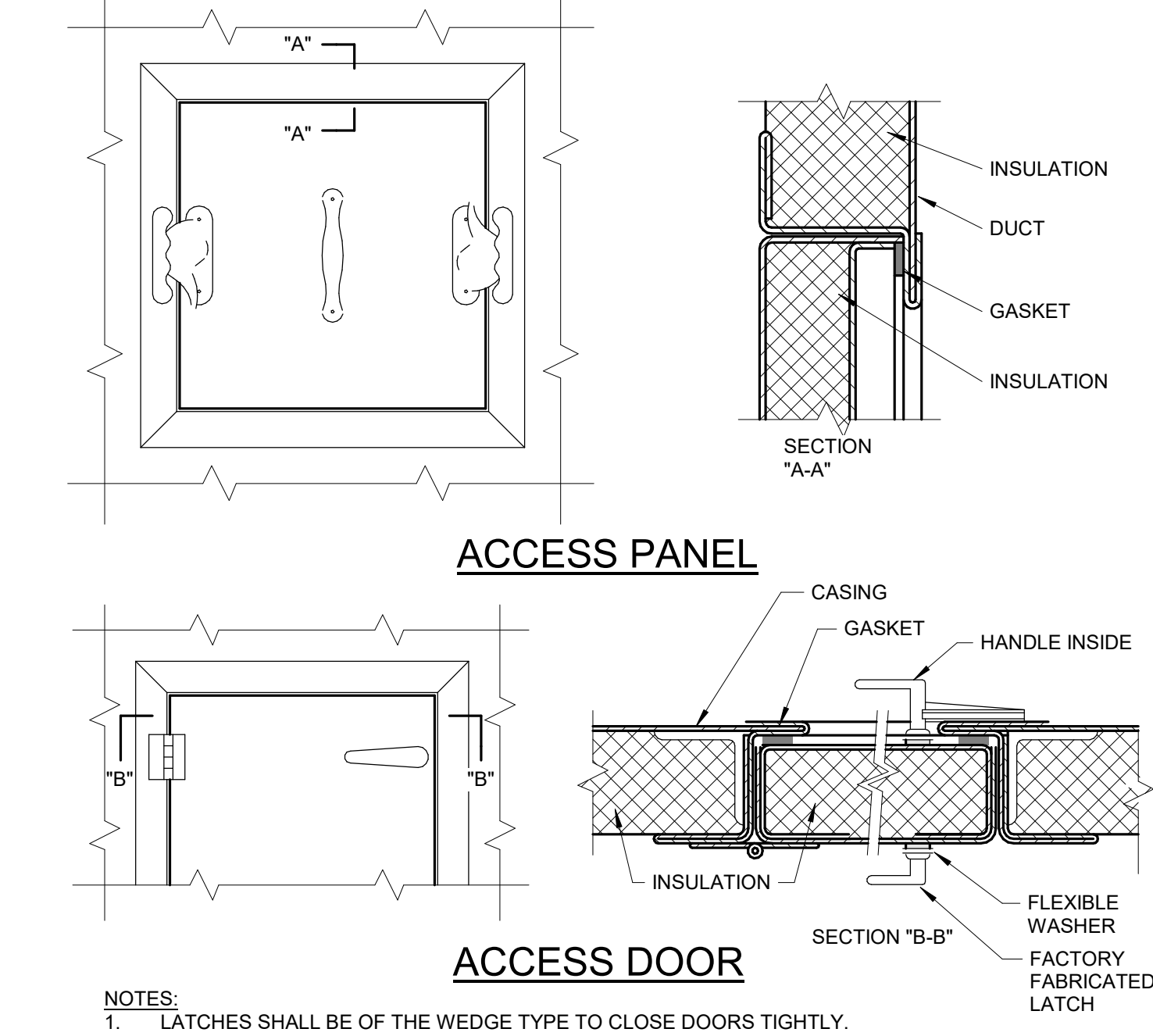


HANGER STRAPS OR RODS			
MAX. DUCT Ø IN. (mm)	QUANTITY/SIZE IN. (mm)	MAX. LOAD LBS. (kg)	MAX. SPACING IN. (mm)
26 [650]	ONE 1 [25] x 22 GA STRAP	260 [119]	144 [3600]
36 [900]	ONE 1 [25] x 18 GA STRAP	420 [190]	144 [3600]
50 [1250]	ONE 1 [25] x 16 GA STRAP	700 [317]	144 [3600]
60 [1500]	TWO 3/8 [10] Ø RODS	1320 [598]	144 [3600]
84 [2100]	TWO 1/2 [13] Ø RODS	2500 [1133]	144 [3600]

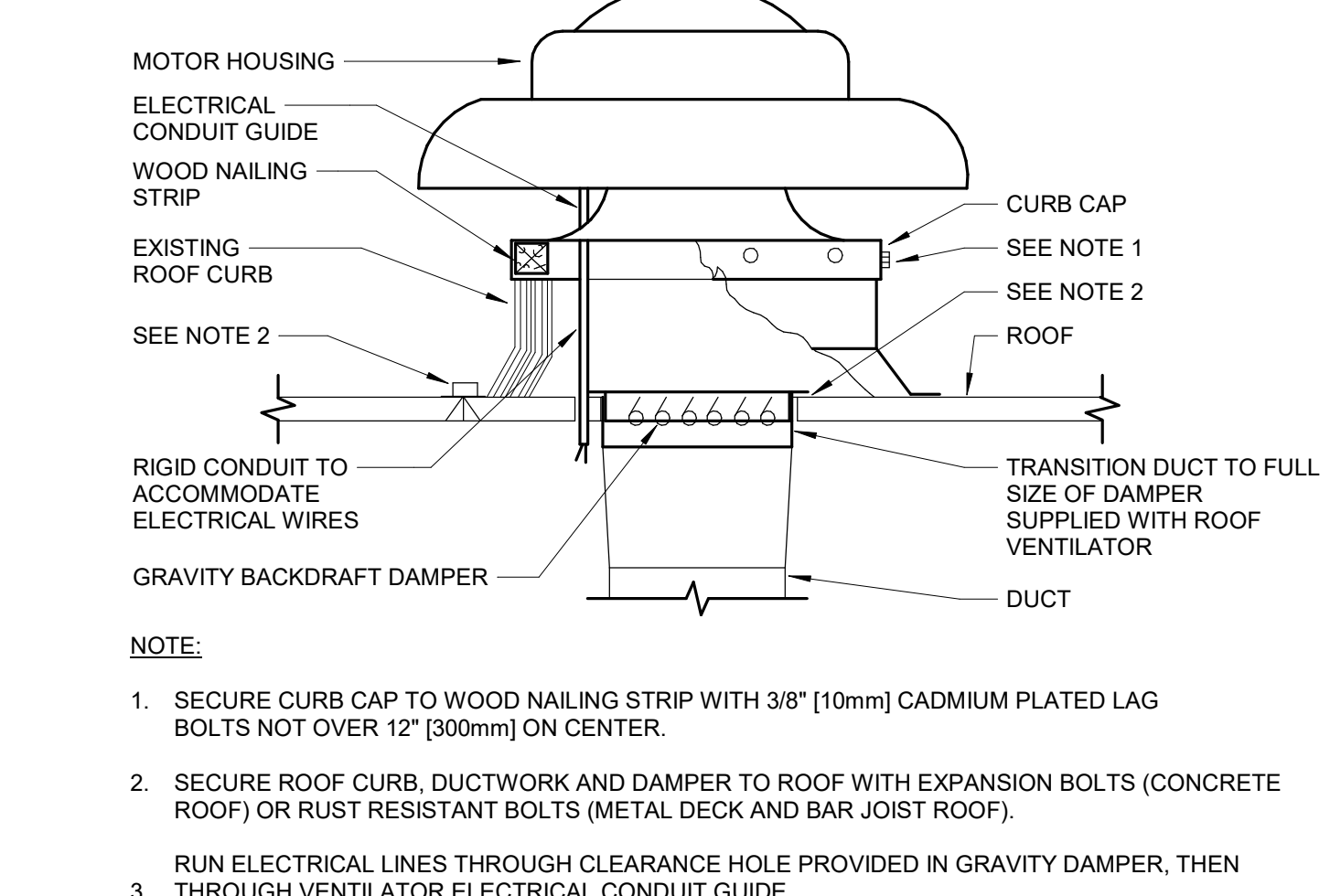
9 DUCT SECURITY BARRIER DETAIL



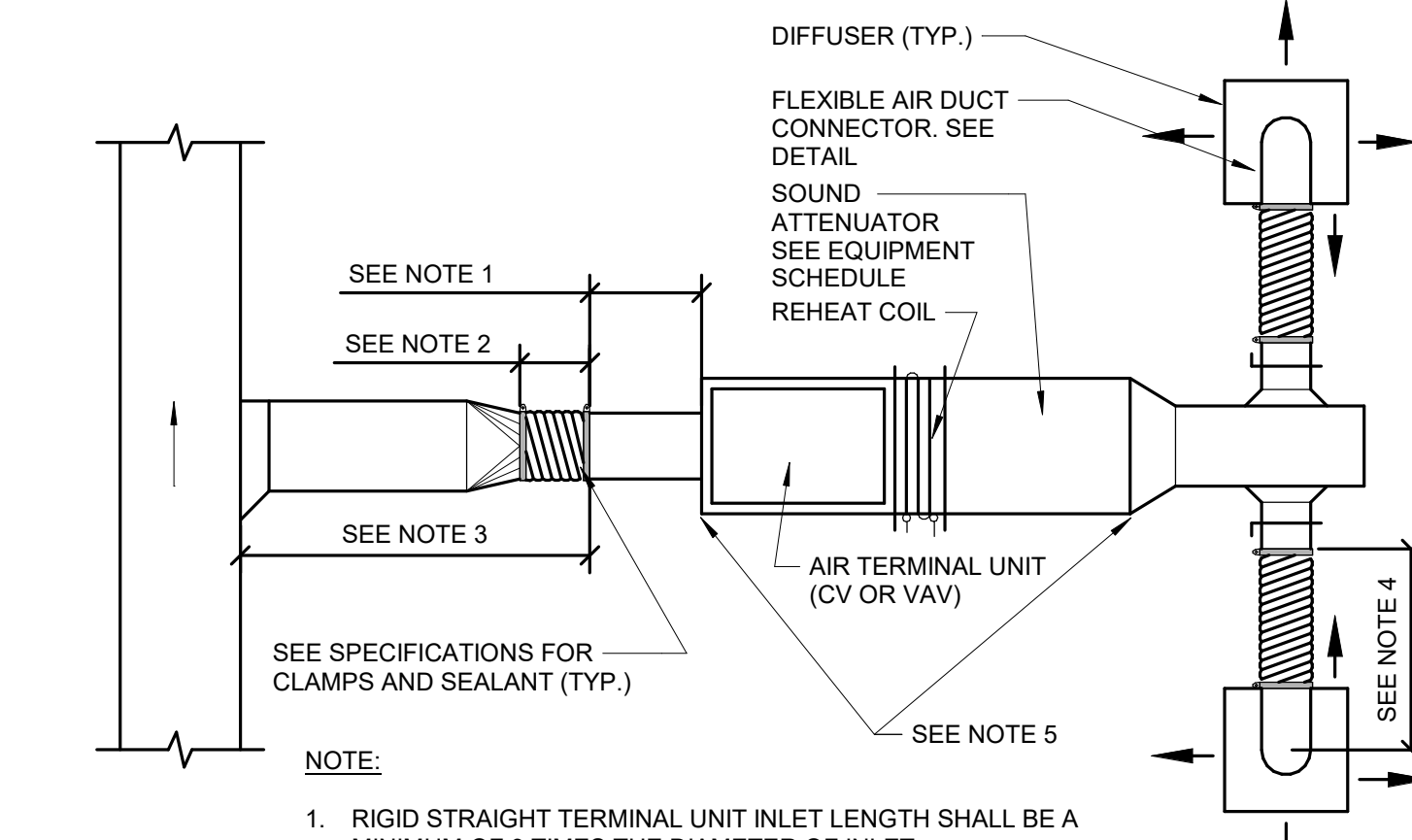
10 ACCESS PANEL AND DOOR DETAIL



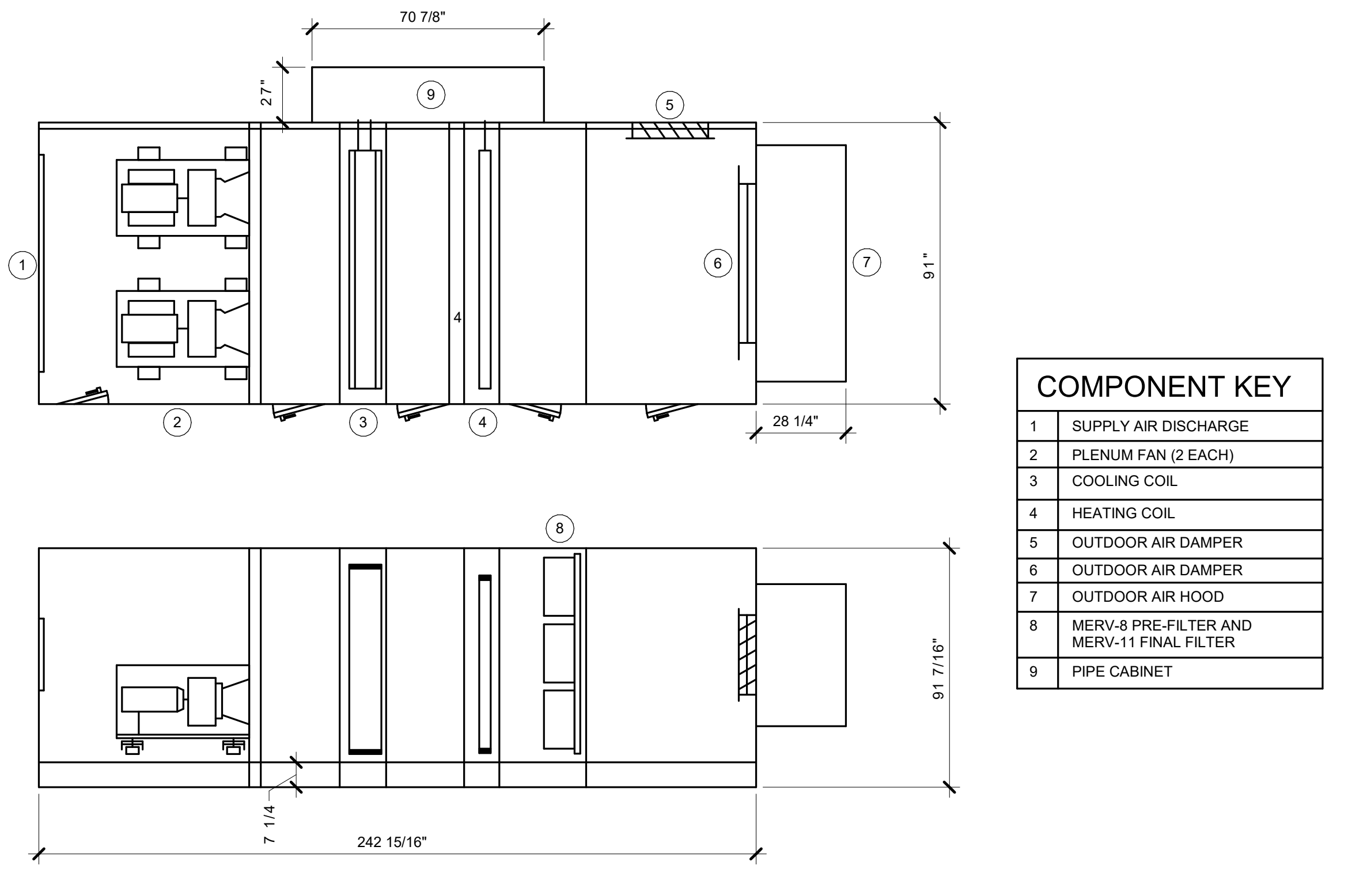
11 POWER ROOF VENTILATOR



12 DUCT CONNECTIONS - AIR TERMINAL UNITS



13 ACCESS DOOR SWING AND COMPONENT DETAIL FOR AIR HANDLER UNIT



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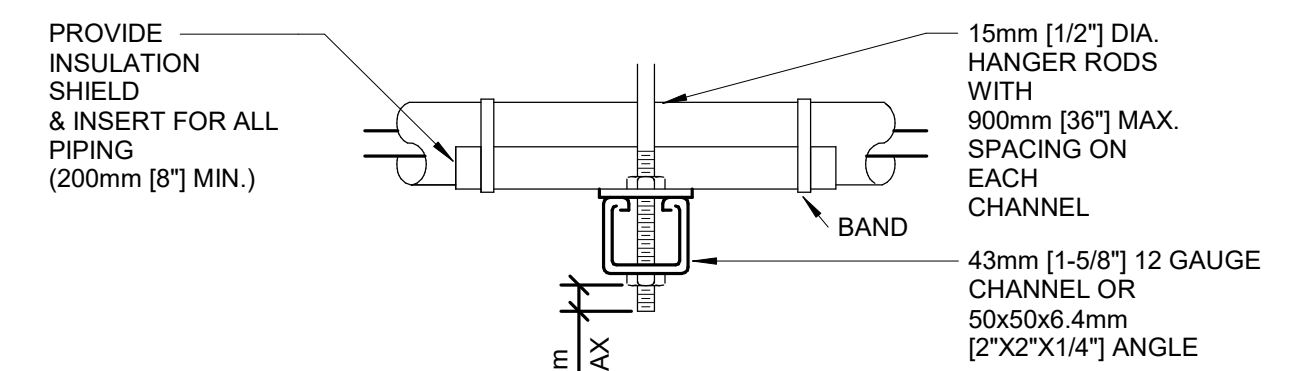
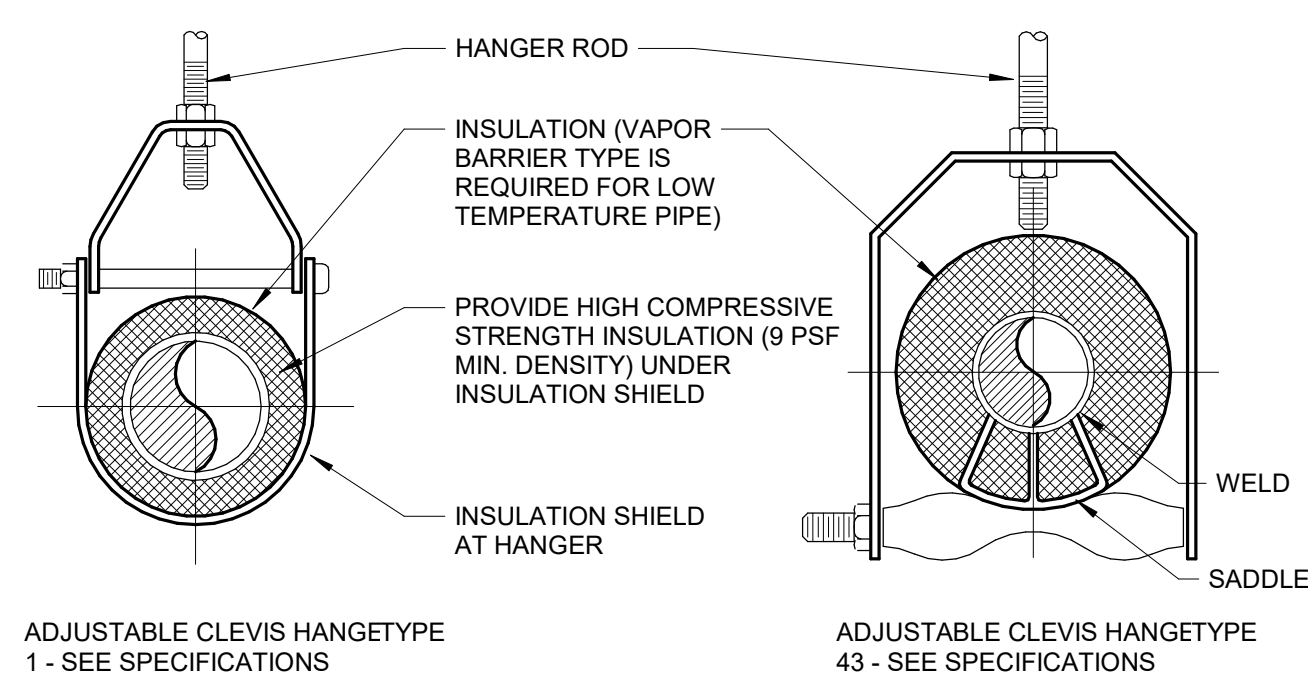
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 STATE OF MISSOURI
 RUSSELL J. ARNSON
 LICENSE NO. 46356
 PROFESSIONAL ENGINEER

Office of Construction and Facilities Management
 VA U.S. Department of Veterans Affairs

Drawing Title: **MECHANICAL DETAILS**
 Approved:

Phase: **BID SET**
FULLY SPRINKLERED

Project Title: **RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS**
 Project Number: **589A4-20-158**
 Building Number: **14**
 Location: **HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201**
 Issue Date: **03/24/2021**
 Checked: **JASSNE**
 Drawn: **ANUSHA**
 Drawing Number: **M-300**
 Dwg. # **65 of 94**

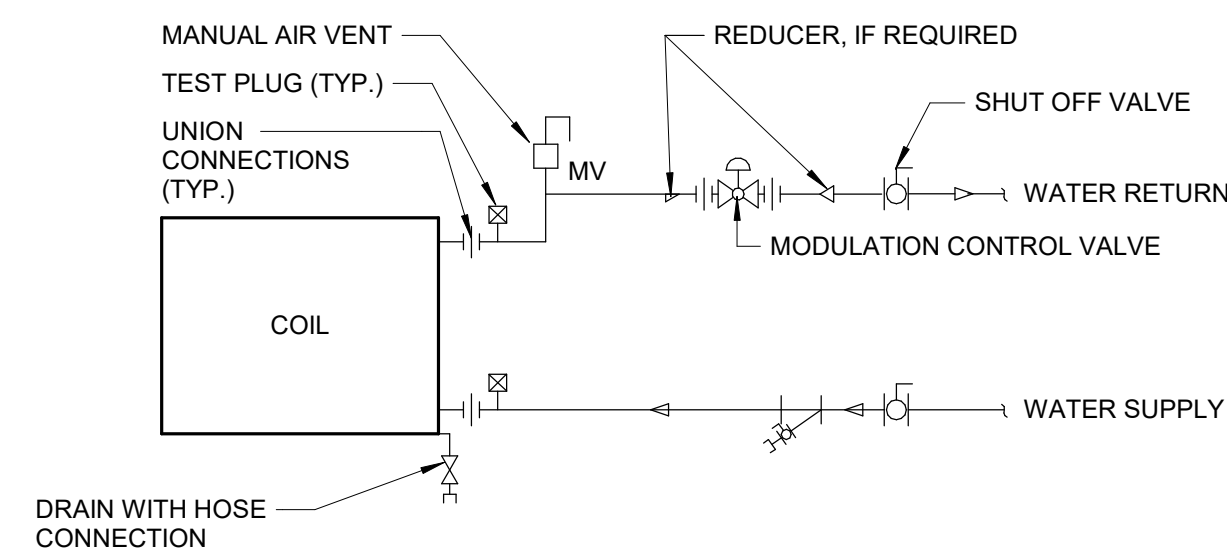


SIDE VIEW TRAPEZE HANGER FOR UP TO 453KG (1000 LB.) UNIFORM LOAD

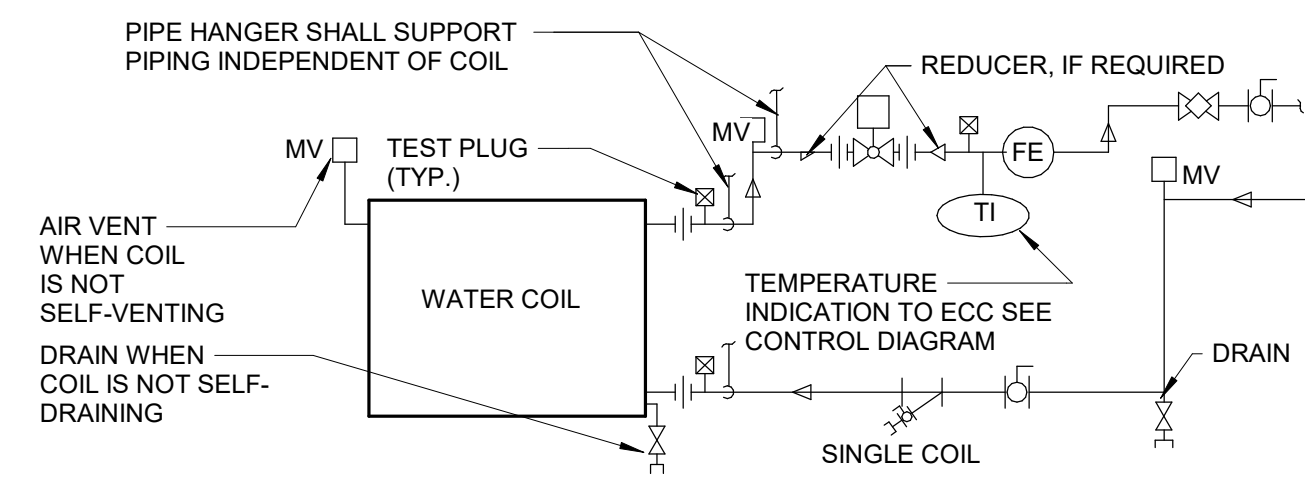
		MAXIMUM PIPE/TUBING SUPPORT SPACING																	
NOM. SIZEmm [IN]		THRU 20 [3/4]	25 [1]	32 [1 1/4]	40 [1 1/2]	50 [2]	65 [2 1/2]	75 [3]	100 [4]	125 [5]	150 [6]	200 [8]	250 [10]	300 [12]	350 [14]	400 [16]	450 [18]	500 [20]	600 [24]
PIPE	mm [FT]	2100 [7]	2100 [7]	2100 [7]	2700 [9]	3000 [10]	3400 [11]	3700 [12]	4100 [14]	4900 [16]	5200 [17]	5800 [19]	6700 [22]	7000 [23]	7800 [25]	8200 [27]	8500 [28]	9100 [30]	9600 [32]
TUBING	mm [FT]	1500 [5]	1800 [6]	2100 [7]	2400 [8]	2400 [8]	2700 [9]	3000 [10]	3700 [12]	4000 [13]	4100 [14]	4900 [16]	-	-	-	-	-	-	-

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

1 PIPE HANGERS

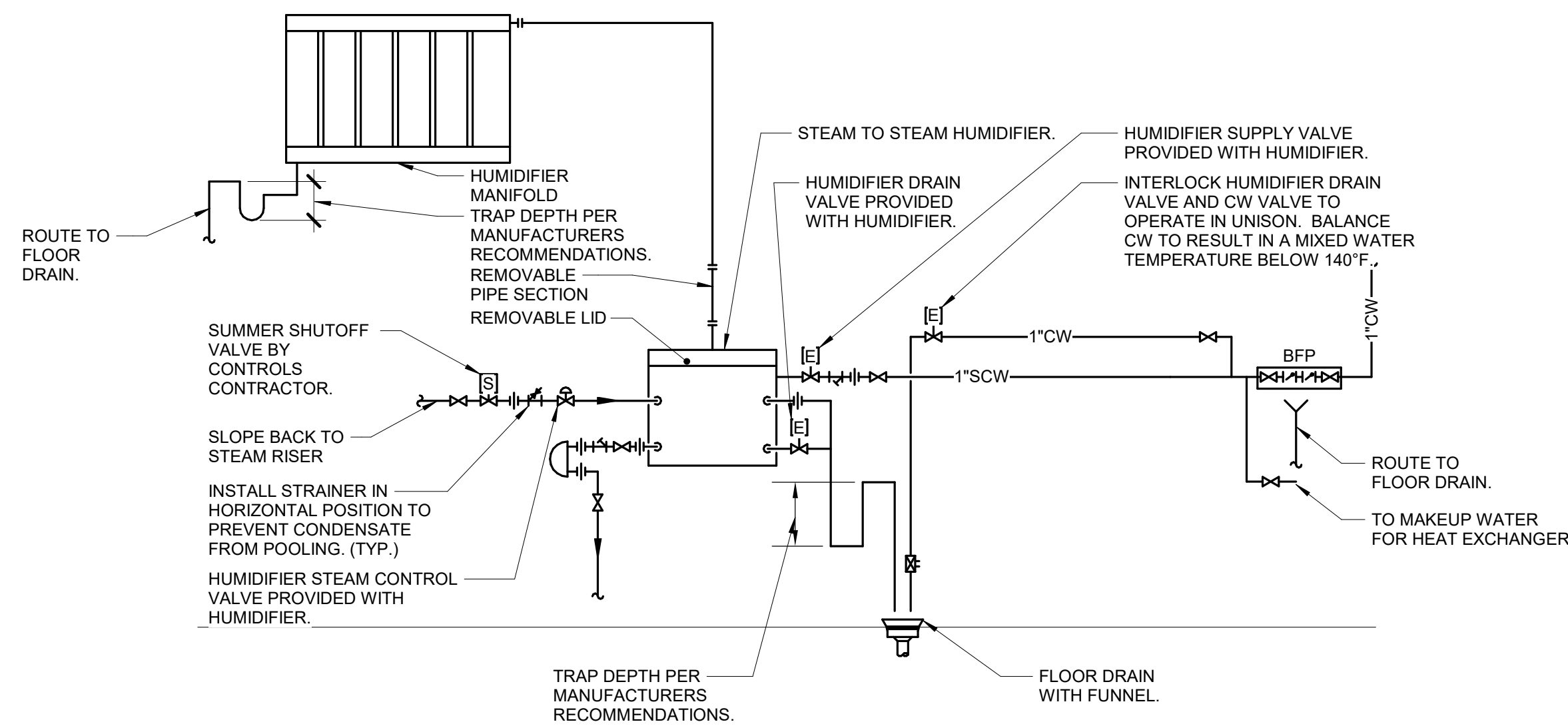


2 TERMINAL UNIT WATER COILS - PIPING CONNECTIONS

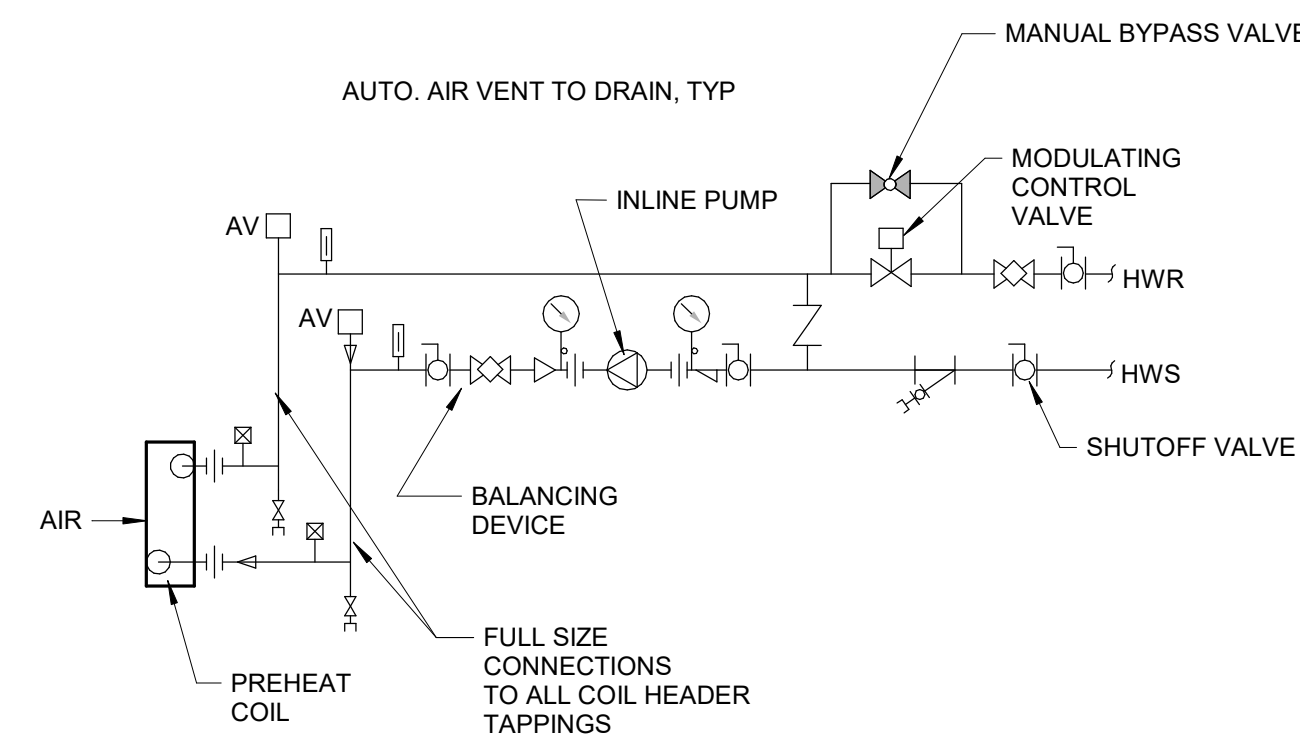


3 AHU WATER COILS - PIPING CONNECTIONS

NOTES:
1. CHILLED WATER COIL CONTROL VALVE SHALL BE PRESSURE INDEPENDANT TYPE (PICV).



4 HUMIDIFIER (STEAM TO STEAM) DETAIL



NOTE:
SIZE AND SELECT COIL FOR PARALLEL FLOW AND MINIMUM TUBE WATER VELOCITY OF .91 M/S (3.0 FPS)

EXPANSION LOOP		
LOOP NO.	W	H
100-EL1	---	---
---	---	---

5 PREHEAT COIL (HOT WATER) - PIPING CONNECTIONS

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EXPIRES 12/31/2024

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VA U.S. Department of Veterans Affairs

Drawing Title
MECHANICAL DETAILS

Approved:

Phase
BID SET

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Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

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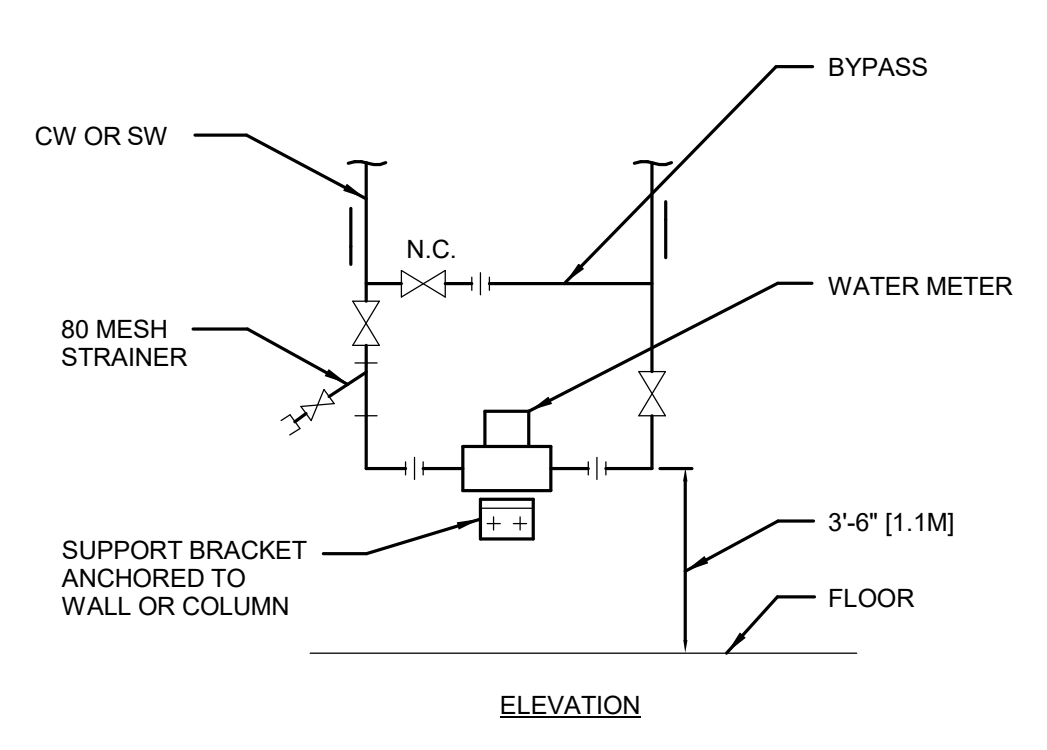
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Project Number
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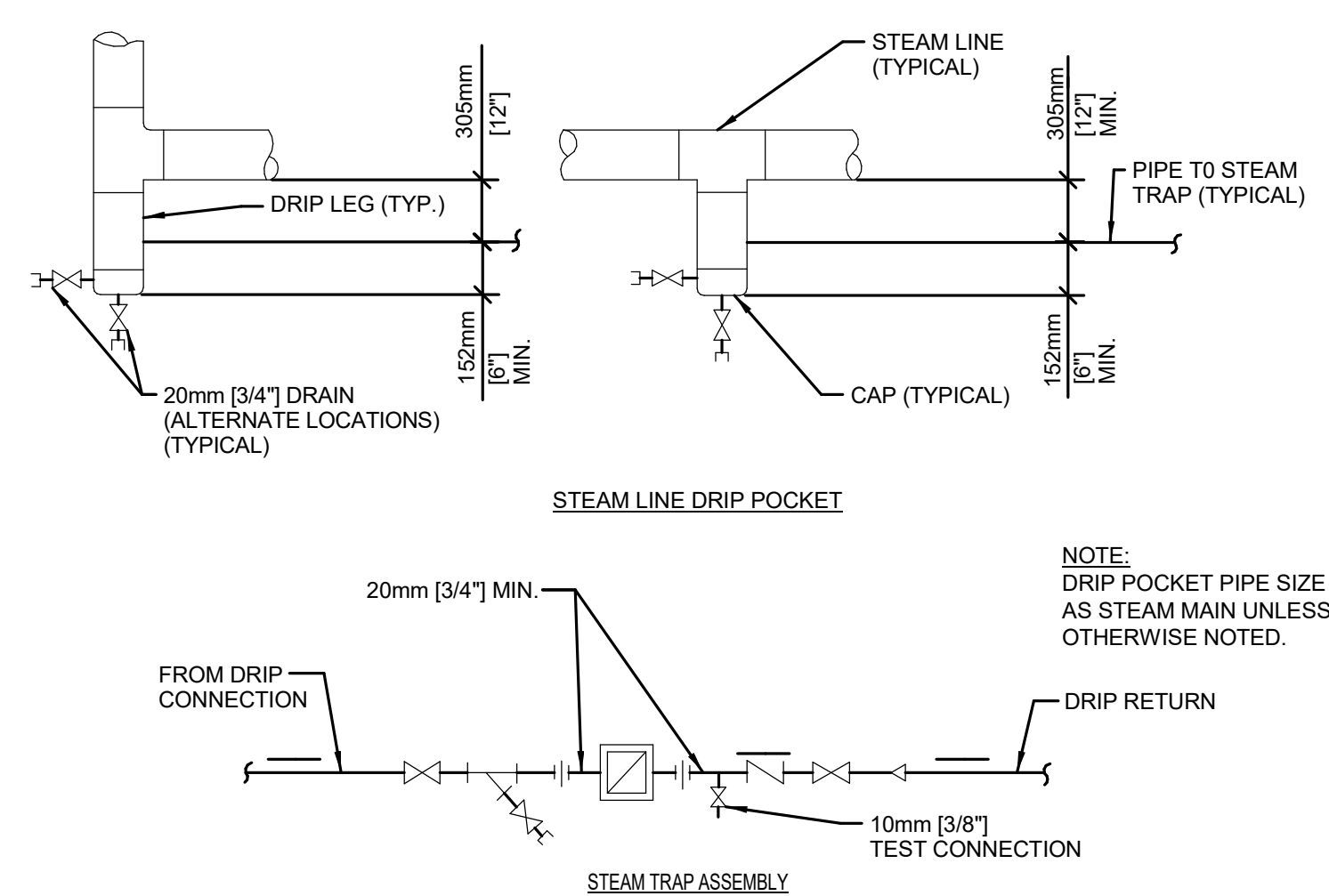
Building Number
14

Drawing Number
M-301
Dwg. # 66 of 94

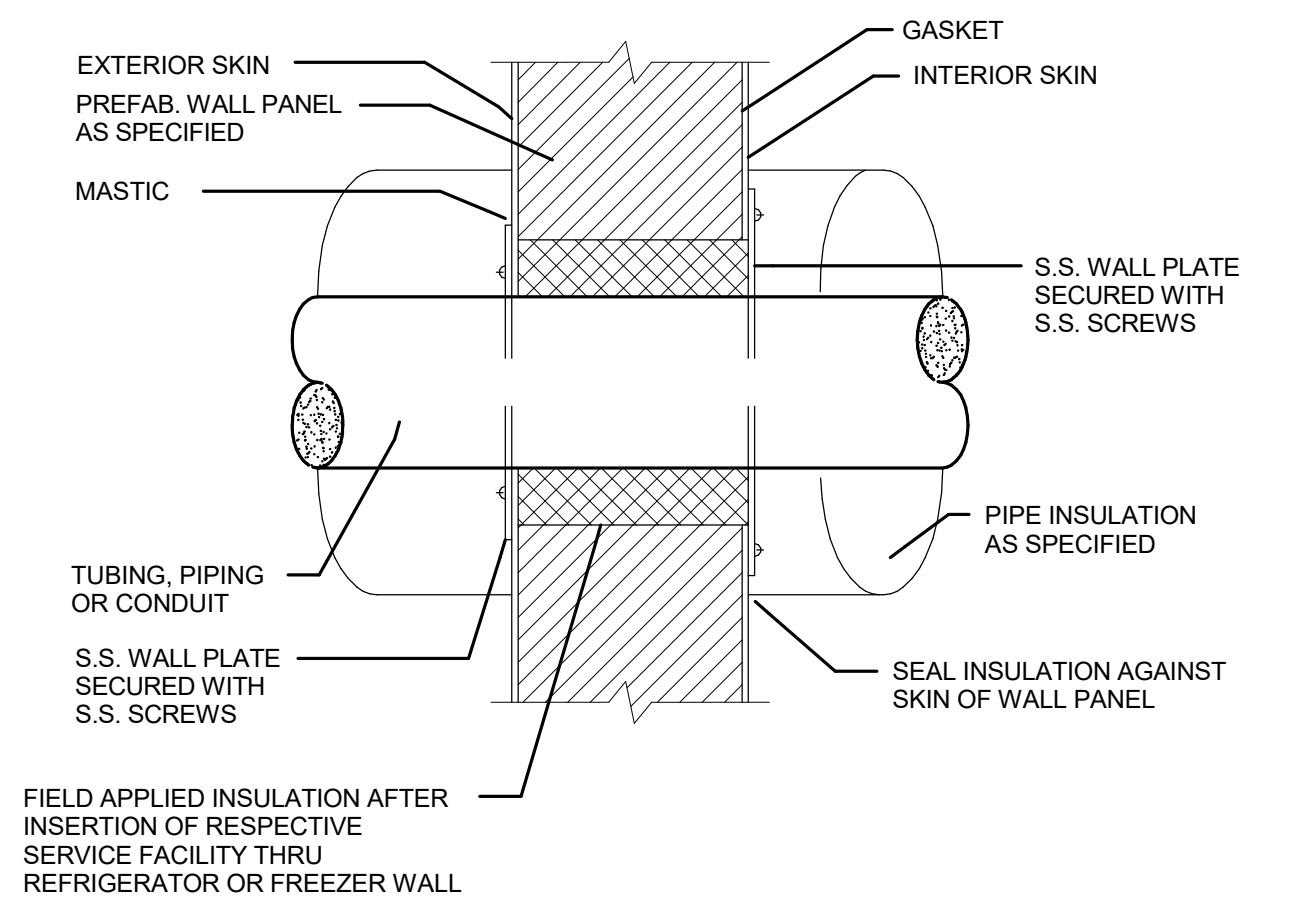
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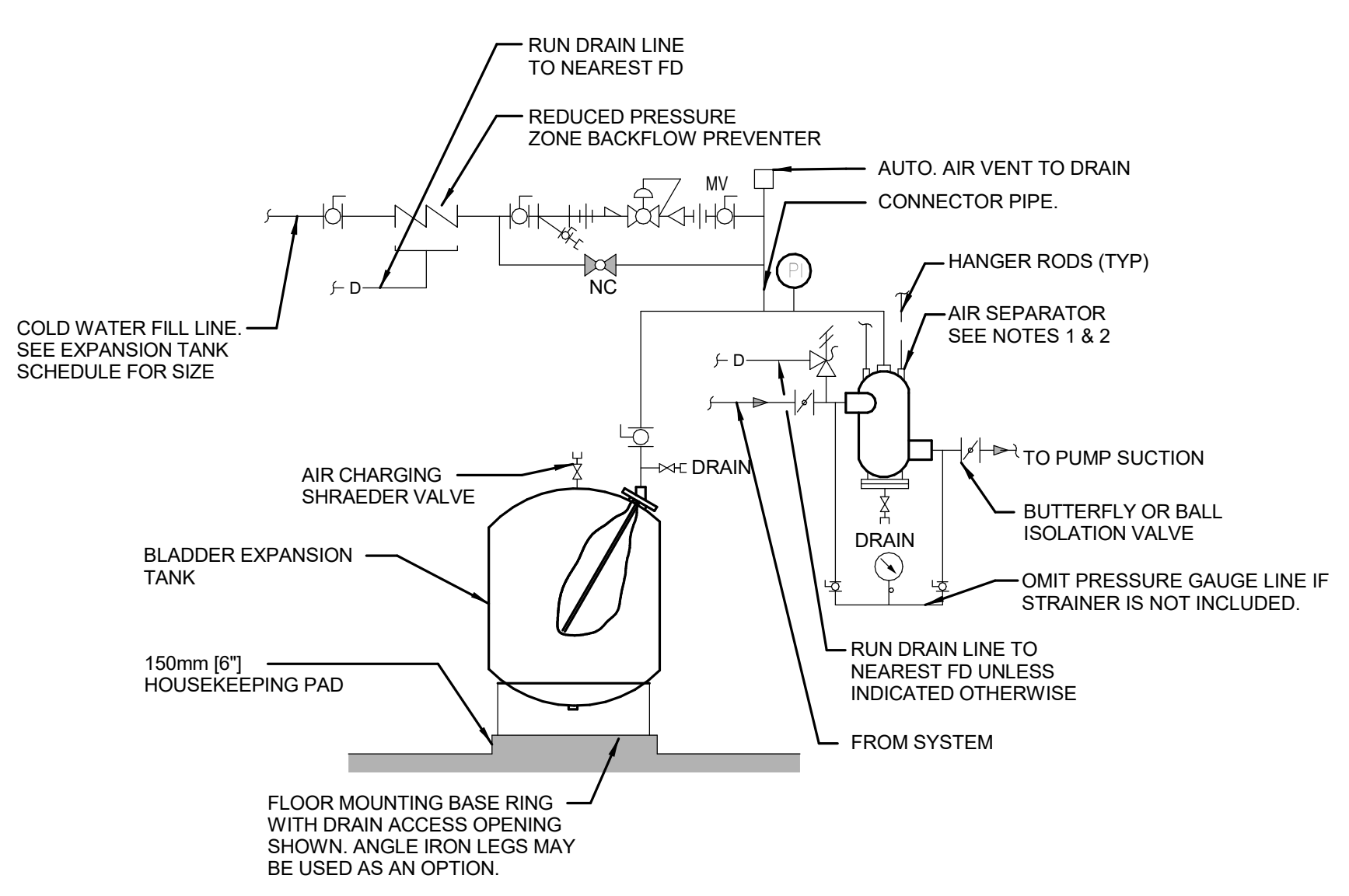
1 WATER METER INSTALLATION



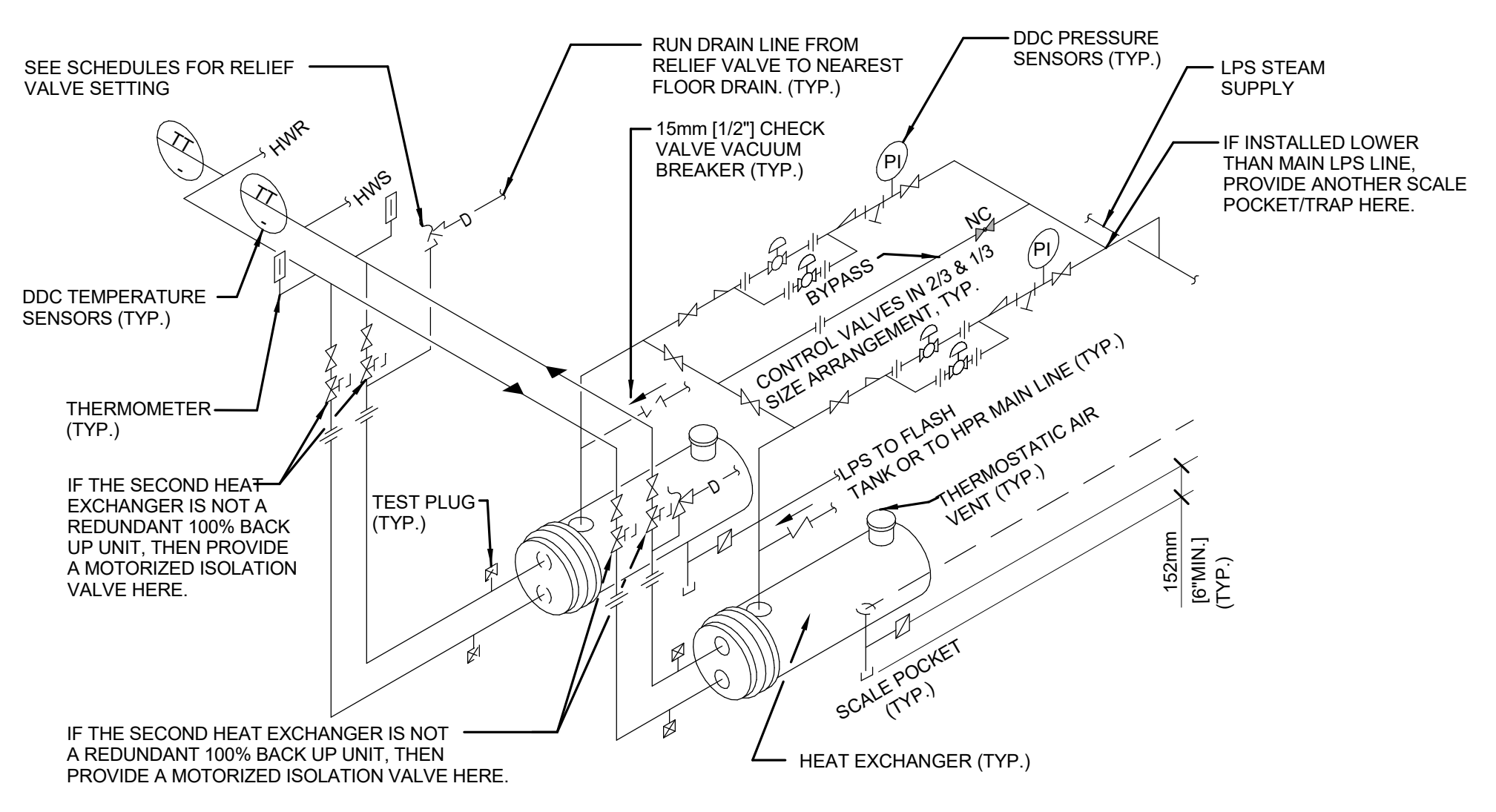
2 STEAM LINE DRIP POCKET AND STEAM TRAP ASSEMBLY



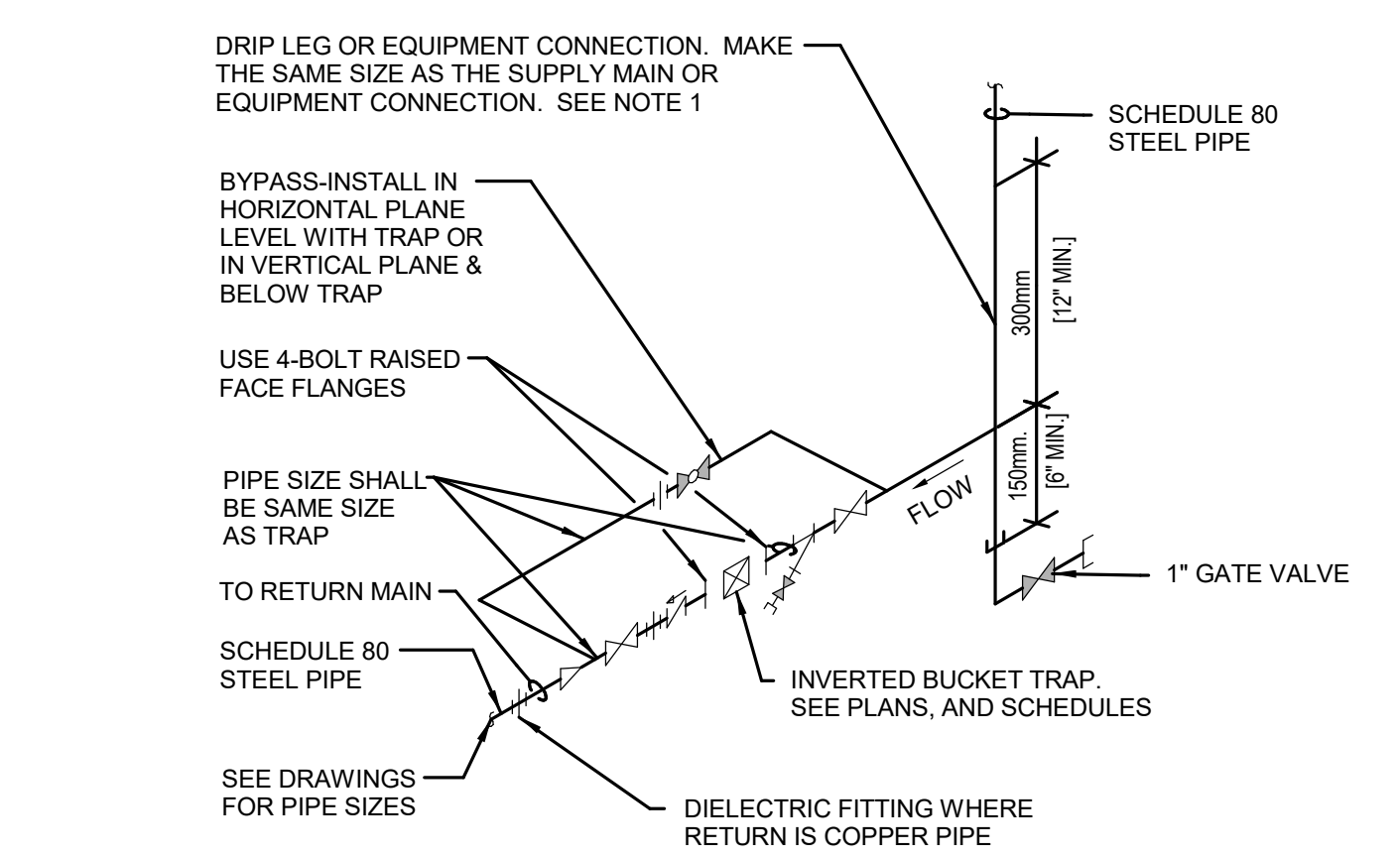
3 TUBING, PIPING, AND CONDUITS PASSING THROUGH PRE-FAB INSULATED WALL PANELS



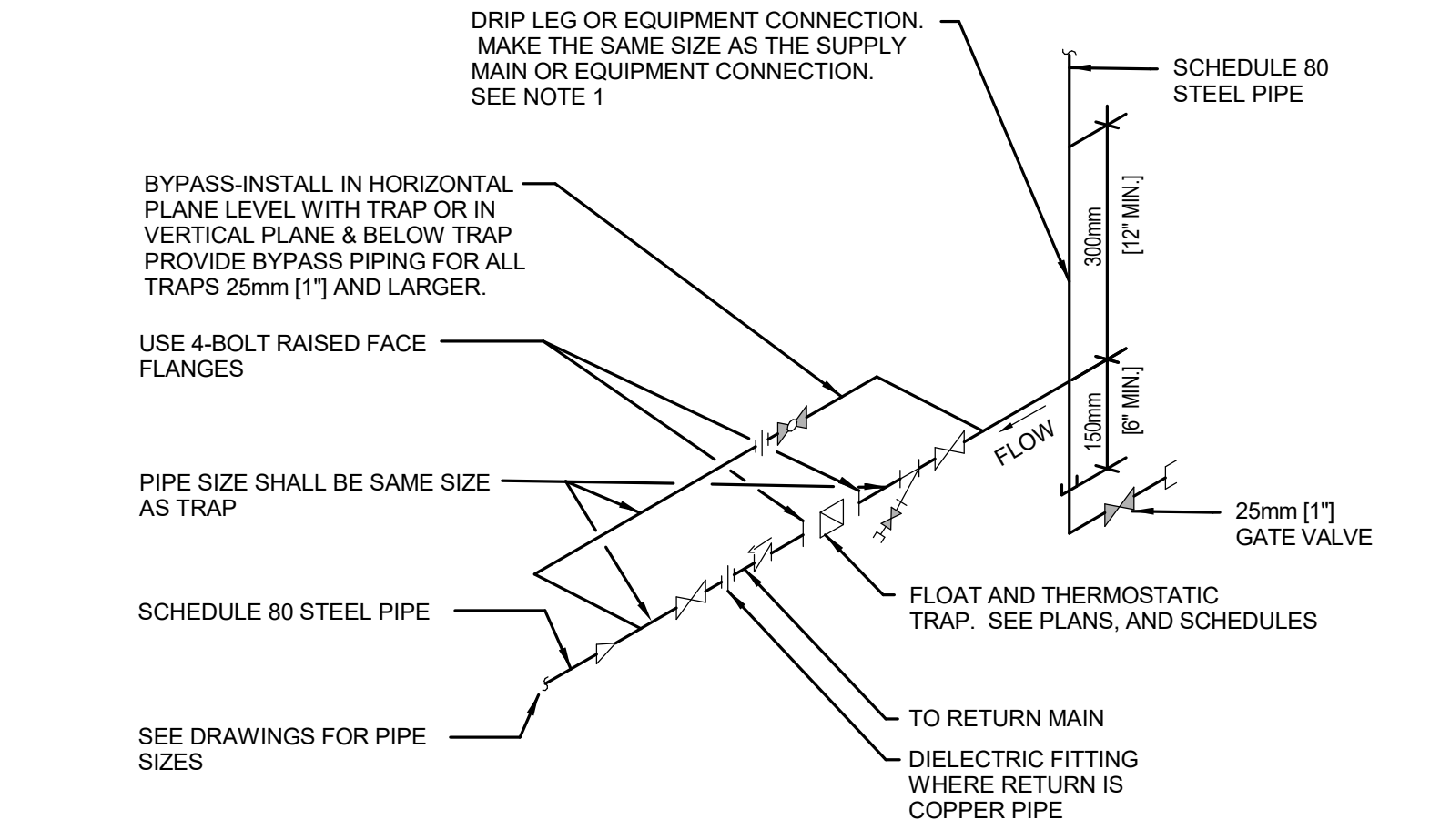
4 FLOOR MOUNTED EXPANSION TANK - PIPING CONNECTIONS



5 HEAT EXCHANGER - STEAM TO HOT WATER



6 INVERTED BUCKET STEAM TRAP ASSEMBLY



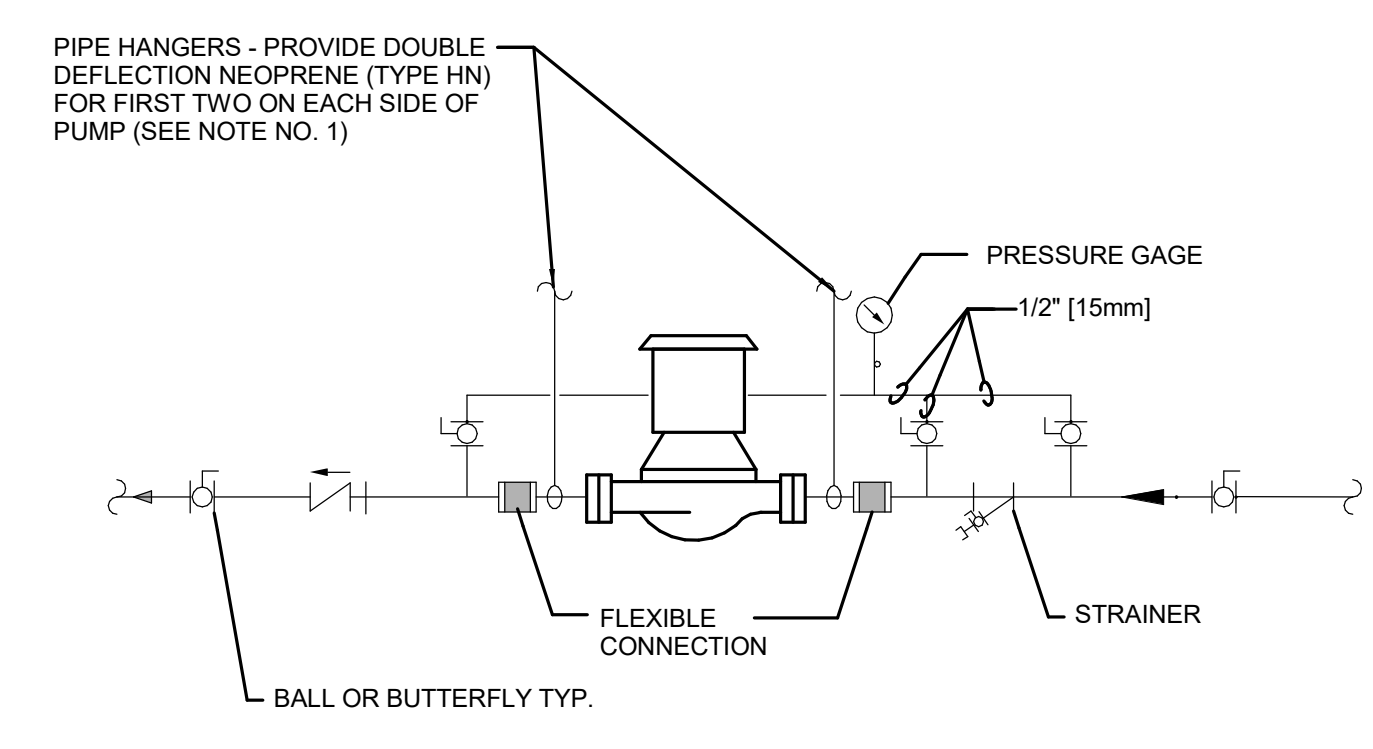
7 FLOAT AND THERMOSTATIC STEAM TRAP ASSEMBLY

- NOTES:**
- SEE EXPANSION TANK SYSTEM SCHEDULE FOR COMPONENT SIZES.
 - FOR HOT WATER SYSTEMS 50mm [2"] AND SMALLER AND CHILLED WATER SYSTEMS USE IN-LINE AIR PURGER IN LIEU OF AIR SEPARATOR.
 - SET PRESSURE REDUCING VALVE SO PRESSURE AT HIGHEST POINT IN SYSTEM HAS A MINIMUM OF 28kPa [4 PSIG].
 - PROVIDE STRAINER IN AIR SEPARATOR IF INDICATED IN EXPANSION TANK SCHEDULE.
 - RELIEF VALVE FOR CHILLED WATER SYSTEM IS SHOWN. OMIT WHEN RELIEF VALVE IS SHOWN ON HEAT EXCHANGER DETAIL AND SYSTEM IS USED ONLY FOR HOT WATER HEATING.

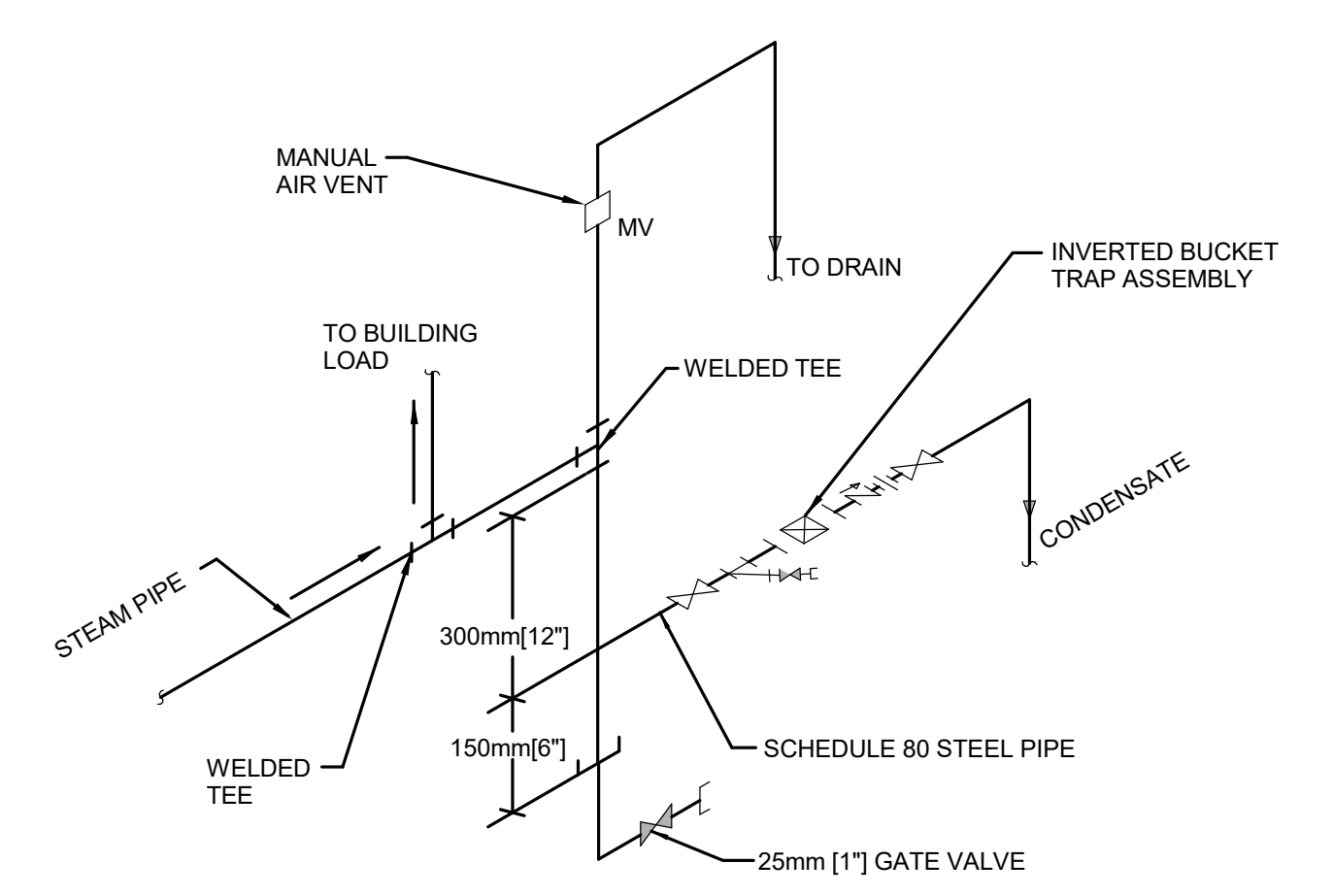
- NOTES:**
- THE ABOVE DETAIL SHOWS REQUIRED PIPING FOR TWO HEAT EXCHANGERS IN PARALLEL. INDICATE IF 100% REDUNDANT OR NOT.
 - PROVIDE SADDLE SUPPORTS AND LEGS OR HANGERS FOR HEAT EXCHANGER. MOUNTING HEIGHT SHALL BE ADJUSTED TO FACILITATE GRAVITY RETURN OF STEAM CONDENSATE.
 - MAKE THE BYPASS THE SAME SIZE AS THE CONNECTIONS TO THE CONTROL VALVES.
 - CONTROL VALVES SHALL BE IN A 1/2" AND 3/4" SIZE ARRANGEMENT.

- NOTES:**
- ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 300mm [12"] MINIMUM HIGH DRIP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 150mm [6"] SCALE POCKET BELOW TRAP INLET.
 - PROVIDE BYPASS PIPING.

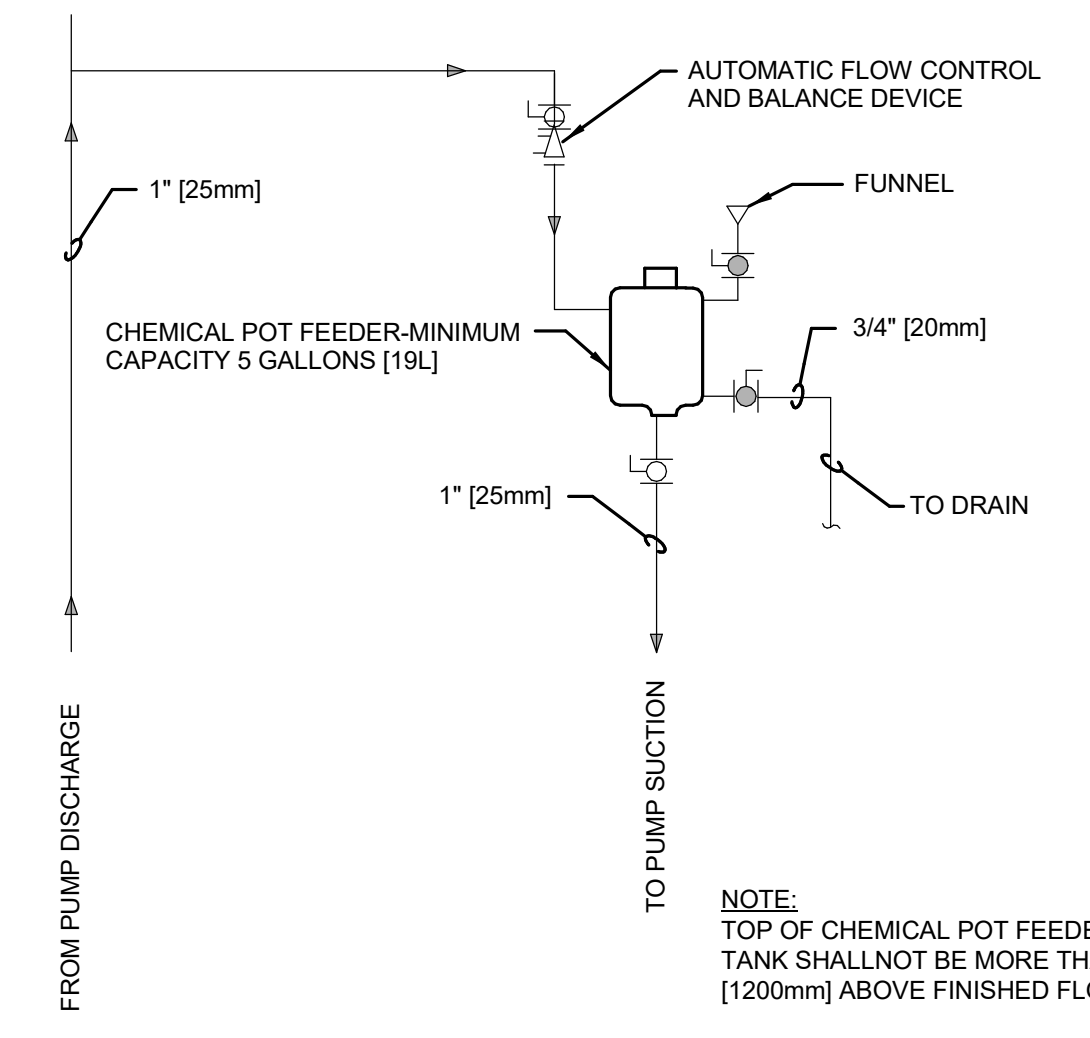
- NOTE:**
- ALL DRIP POINTS ON STEAM MAINS SHALL BE PROVIDED WITH A 300mm [12"] MINIMUM HIGH DRIP LEG FROM BOTTOM OF STEAM MAIN TO TRAP INLET. DRIP LEG SHALL HAVE 150mm [6"] SCALE POCKET BELOW TRAP INLET.



8 IN-LINE PUMPS - CONNECTIONS



9 END OF STEAM LINE DRIP TRAP



10 WATER TREATMENT - CLOSED SYSTEMS

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STATE OF MISSOURI
NO. 14835

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
MECHANICAL DETAILS

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Project Number
589A4-20-158

Building Number
14

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
03/24/2021

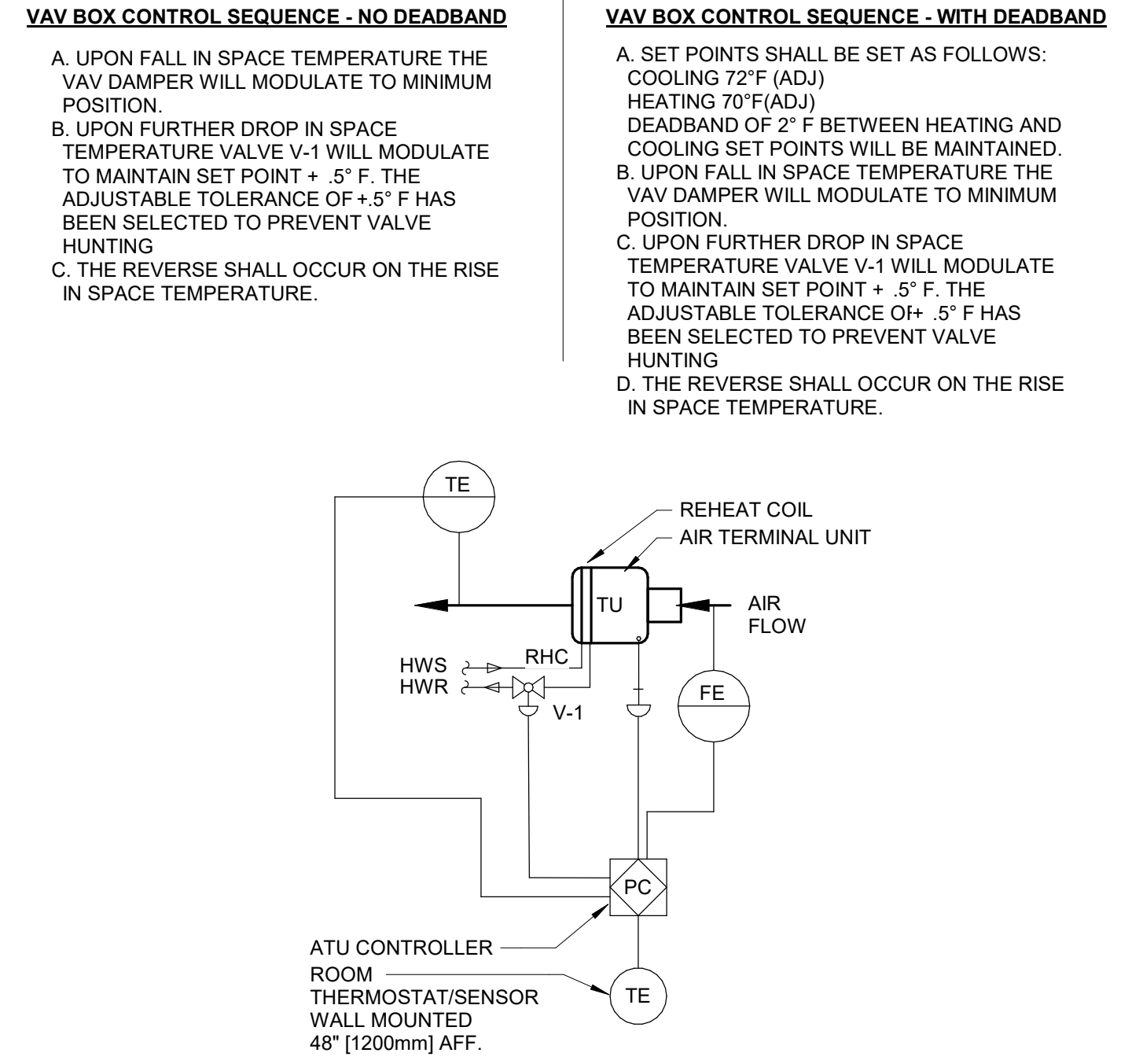
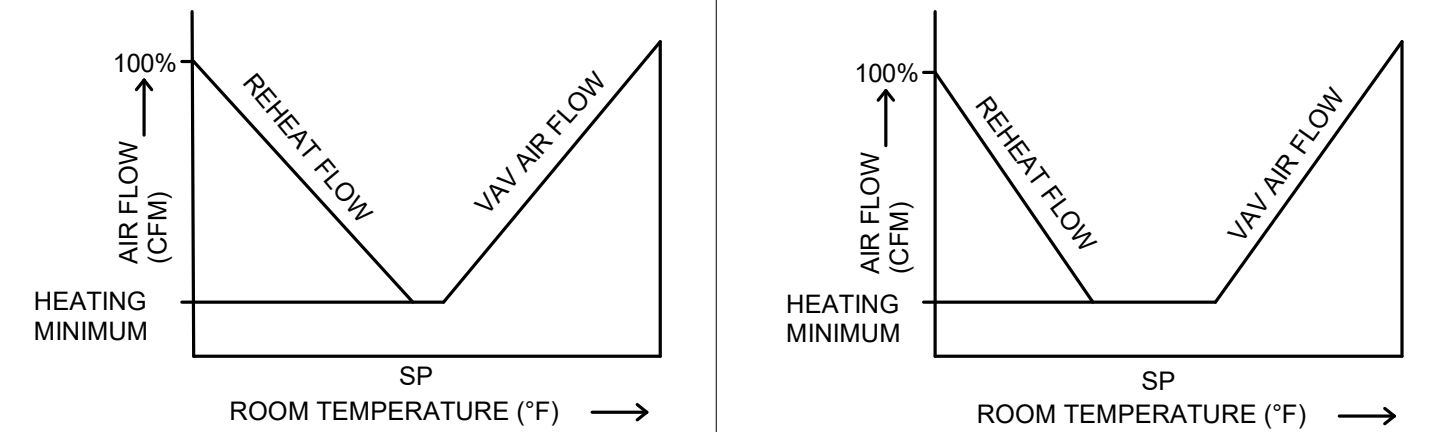
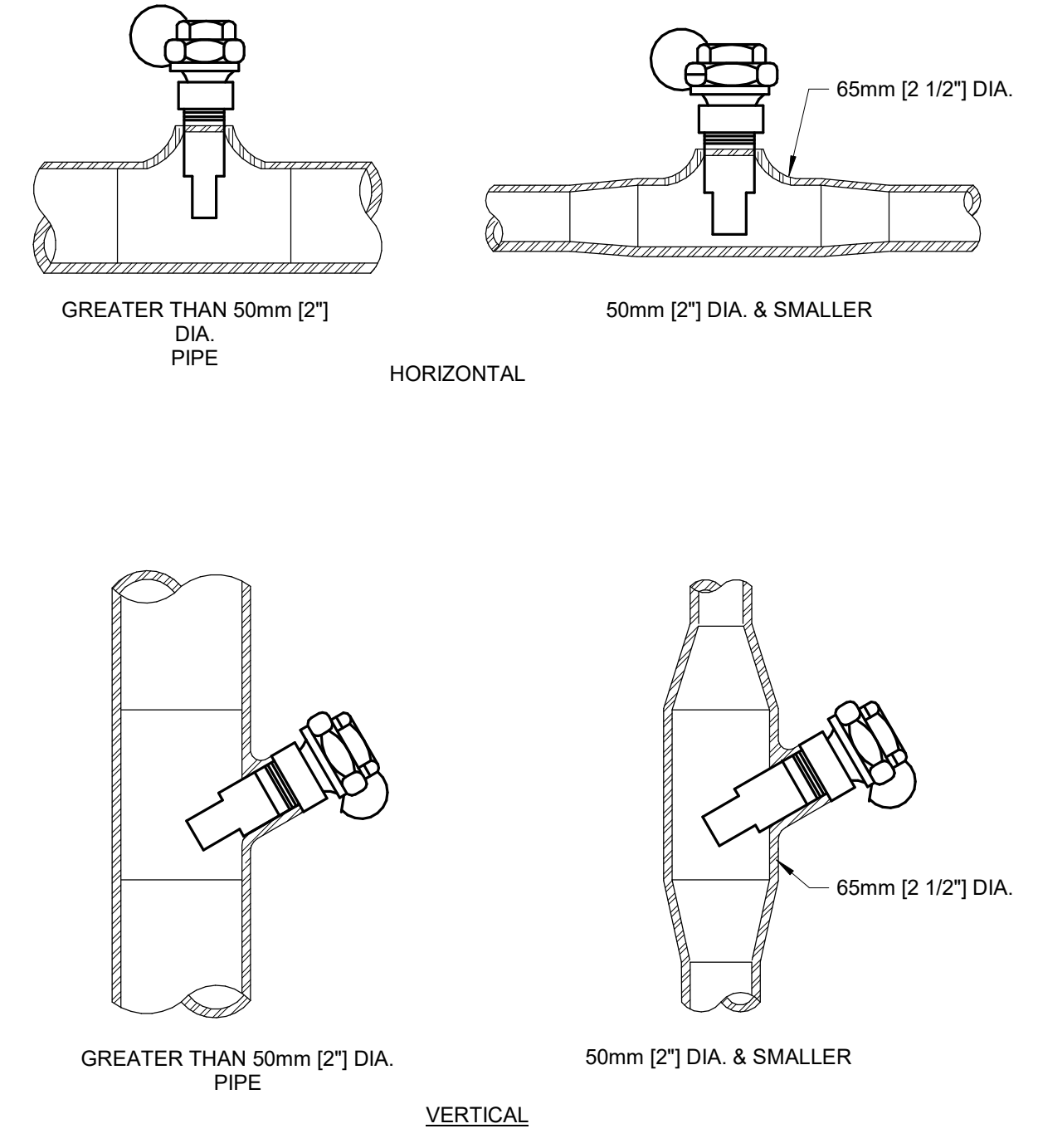
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Drawing Number
M-302

Dwg. #
67 of 94

A B C D E F



1 INSTALLATION OF THERMOMETER WELLS

NOTE: PROVIDE THE APPROPRIATE WELL DEPTH TO HAVE THE NECESSARY INSULATION STAND-OFF DISTANCE.

2 VARIABLE VOLUME AIR TERMINAL UNIT CONTROL DIAGRAM

3 BACNET SYSTEM ARCHITECTURE

NOTES:
 1. EXISTING ECC, ASSOCIATED COMMUNICATION NETWORK AND CONTROLLERS TO REMAIN.
 2. INSTALL NEW BACNET COMMUNICATION NETWORK TO AREA OF NEW WORK.
 3. INSTALL BUILDING CONTROLLER (B-BC) AND BACNET COMMUNICATION NETWORK AS REQUIRED.
 4. INSTALL NEW CONTROLLERS (B-AAC, B-ASC) AS REQUIRED.
 5. PROVIDE NEW PORTABLE OPERATORS TERMINAL.

CONTROLS SYMBOLS

T	ROOM THERMOSTAT/TRANSMITTER - WALL MOUNT
M	ROOM HUMIDISTAT (MOISTURE)/TRANSMITTER - WALL MOUNT
TT	TEMPERATURE TRANSMITTER
TT	TEMPERATURE TRANSMITTER, AVERAGING ELEMENT
MT	MOISTURE (HUMIDITY) TRANSMITTER
PT	PRESSURE TRANSMITTER
SPS	STATIC PRESSURE SENSOR
FT	FLOW TRANSMITTER
IT	CURRENT TRANSMITTER
SD	SMOKE DETECTOR
PDT	PRESSURE DIFFERENTIAL TRANSMITTER
PDS	PRESSURE DIFFERENTIAL SWITCH
HS	HAND SWITCH (HAND-OFF-AUTO SWITCH)
ZC	VALVE OR DAMPER POSITION CONTROLLER
TSL	TEMPERATURE SWITCH, LOW (FREEZESTAT)
PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
HVAC	HVAC CONTROL PANEL
VSMC	VARIABLE SPEED MOTOR CONTROLLER
ECC	INTEGRATE CONTROL POINT ON REMOTE GRAPHICS WORKSTATION AT ENERGY CONTROL CENTER
TC	TEMPERATURE CONTROLLER. SEE SEQUENCE OF OPERATION

5 DUAL HEAT EXCHANGER CONTROLS (HEATING SYSTEM)

SEQUENCE OF OPERATION:
 1. STEAM CONTROL VALVES SHALL MODULATE TO MAINTAIN THE LEAVING HOT WATER TEMPERATURE AT SET POINT.
 2. THE LEAVING HOT WATER TEMPERATURE SHALL BE RESET INVERSELY WITH THE OUTDOOR TEMPERATURE AS SCHEDULED.
 3. THE DUTY/STANDBY PUMPS AND HEAT EXCHANGERS SHALL BE SEQUENCED BY THE OPERATOR CONTROLS AT THE PRE-DETERMINED INTERVAL (USUALLY 7 DAYS). IN THE EVENT THE PUMP FAILS TO START WITHIN 30 SECONDS, AN ALARM SHALL BE INITIATED AND THE SECOND PUMP SHALL START AUTOMATICALLY.

VALVE SEQUENCE:
 1. V-1 (1/3) MODULATES TO MAINTAIN HW TEMPERATURE AT SETPOINT. WHEN V-1 HAS REACHED FULLY OPEN POSITION, V-1 (1/3) SHALL CLOSE AND V-2 (2/3) STARTS TO MODULATE OPEN. WHEN V-2 HAS REACHED FULLY OPEN POSITION, V-1 (1/3) SHALL MODULATE OPEN.
 2. HX-2, V-3 AND V-4 ARE FULLY REDUNDANT AND SHALL BE OPERATED ON A DUTY/STANDBY MODE.

6 STEAM HUMIDIFIER CONTROLS

STEAM HUMIDIFIER CONTROL NOTES:
 RETURN (OR EXHAUST) AIR HUMIDITY SHALL BE MONITORED. ON A CALL FOR HUMIDIFICATION, HUMIDIFIER VALVE V-1 SHALL MODULATE TO MAINTAIN THE RETURN (OR EXHAUST) AIR HUMIDITY SET POINT TO 30% (ADJUSTABLE). PRIOR TO ACTIVATION OF V-1, THE ON/OFF CONTROL VALVE V-2 SHALL BE ENABLED THROUGH BAS.
 THE HIGH LIMIT HUMIDITY SENSOR, LOCATED IN THE SUPPLY AIR DUCT 3000MM [10 FEET] AWAY FROM THE HUMIDIFIER SHALL DISABLE THE HUMIDIFIER AND GIVE AN ALARM SIGNAL TO THE BAS. IF THE SUPPLY AIR HUMIDITY EXCEEDS 90% RH (ADJUSTABLE), THE AIRFLOW SWITCH SHALL PROVE AIRFLOW BEFORE HUMIDITY CONTROLS ARE ACTIVATED.

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Office of Construction and Facilities Management
 VA U.S. Department of Veterans Affairs

Drawing Title
 MECHANICAL DIAGRAMS

Approved:

Phase
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FULLY SPRINKLERED

Project Title
 RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

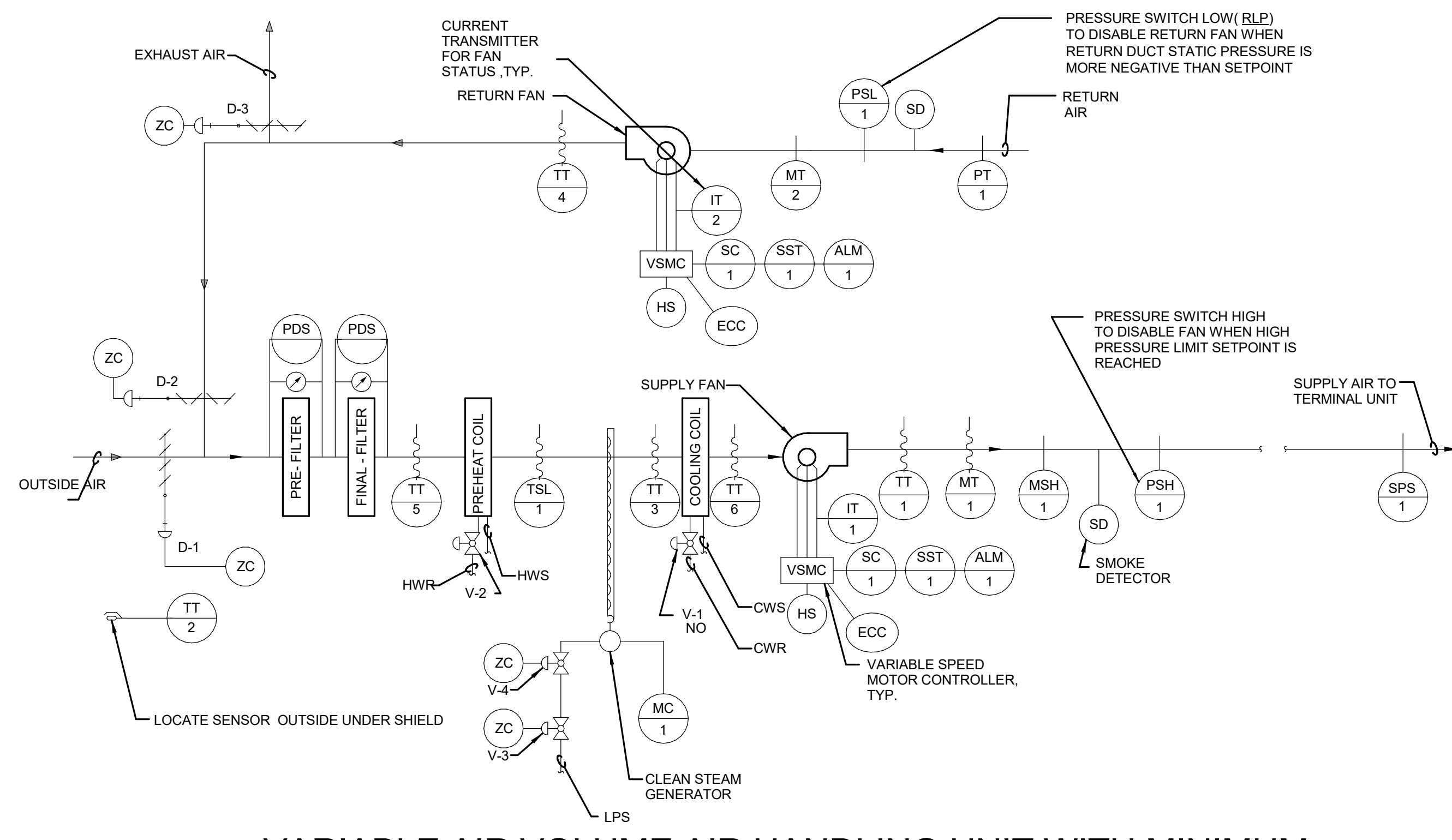
Location
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Issue Date: 03/24/2021
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Drawing Number
 M-400
 Dwg. # 68 of 94



1 VARIABLE AIR VOLUME AIR HANDLING UNIT WITH MINIMUM OUTSIDE AIR CONTROL DIAGRAM

SEQUENCE OF OPERATION FOR VARIABLE AIR VOLUME AIR HANDLING UNIT WITH MINIMUM OUTSIDE AIR

- 1. GENERAL**
 - 1.1 UNIT IS NORMALLY STARTED AND STOPPED REMOTELY AT THE ECC. H-O-A SWITCH SHALL BE KEPT IN THE "AUTO" POSITION. "HAND" AND "OFF" POSITIONS SHALL BE USED ONLY FOR MAINTENANCE. WHEN THE UNIT IS "OFF" D-1 AND D-3 SHALL BE FULLY CLOSED. WHEN THE UNIT IS "ON" D-1 SHALL BE FULLY OPEN. D-2 AND D-3 SHALL MODULATE IN ACCORDANCE WITH THE FOLLOWING SEQUENCE:
- 2. TEMPERATURE CONTROL**
 - 2.1 SUPPLY AIR TEMPERATURE, SENSED BY TT-1, SHALL BE MAINTAINED AT SETPOINT VIA DIGITAL CONTROL PANEL BY MODULATING V-1 OR D-2 AND D-3 OR V-2 IN SEQUENCE.
 - 2.2 WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY TT-2, IS ABOVE 75°F (23.8°C), THE DIGITAL CONTROL PANEL SHALL PREVENT THE MODULATION OF D-2 AND D-3 AND SHALL ASSUME THE MINIMUM OUTSIDE AIR POSITION (D-2 FULLY OPENED AND D-3 FULLY CLOSED). THE DIGITAL CONTROL PANEL SHALL MODULATE V-1 TO MAINTAIN THE SUPPLY AIR TEMPERATURE, SENSED BY TT-1.
 - 2.3 WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY TT-2, IS BETWEEN 65°F (18.3°C) AND THE SUPPLY AIR TEMPERATURE SENSED BY TT-1, DAMPER D-2 SHALL FULLY CLOSE AND D-1 AND D-3 SHALL BE FULLY OPEN (MAXIMUM OUTSIDE AIR POSITION). THE DIGITAL CONTROL PANEL SHALL MODULATE V-1 TO MAINTAIN THE SUPPLY AIR TEMPERATURE, SENSED BY TT-1.
 - 2.4 WHEN THE TEMPERATURE OF THE OUTSIDE AIR, SENSED BY TT-2, IS BELOW THE SUPPLY AIR TEMPERATURE, SENSED BY TT-1, DAMPERS D-1, D-2 AND D-3 SHALL MODULATE TO MAINTAIN THE SCHEDULED SUPPLY AIR TEMPERATURE. IF D-2 IS OPEN AND D-3 IS CLOSED TO MINIMUM OUTSIDE AIR, V-2 SHALL MODULATE OPEN TO MAINTAIN THE SUPPLY AIR TEMPERATURE, SENSED BY TT-1.
- 3. AIR FLOW CONTROL**
 - 3.1 THE SUPPLY AIR FLOW SHALL BE CONTROLLED BY THE DIGITAL CONTROL PANEL MODULATING THE SUPPLY FAN VARIABLE SPEED MOTOR CONTROLLER TO MAINTAIN 1.5' (37mm) OF DUCT STATIC PRESSURE (FIELD ADJUSTABLE), SENSED BY SPS-1. RESET STATIC PRESSURE BASED ON ACTUAL BUILDING LOAD BY POLLING ALL ATU.
 - 3.2 THE DIGITAL CONTROL PANEL, USING TOTAL SUPPLY AIR AND RETURN AIR FLOW SIGNALS, SHALL RESET THE RETURN AIR FAN VSMC TO MAINTAIN A CONSTANT AIR FLOW DIFFERENCE BETWEEN THE SUPPLY AIR AND THE RETURN AIR EQUAL TO MINIMUM OUTSIDE AIR.
 - 3.3 USING HIGH PRESSURE SENSOR SPS-2 LOCATED AT THE SUPPLY FAN DISCHARGE, SHALL PREVENT THE SUPPLY FAN FROM DEVELOPING OVER 3" (75mm) OF STATIC PRESSURE (FIELD ADJUSTABLE). IF STATIC PRESSURE AT SPS-2 DOES EXCEED 3" (75mm) THE SUPPLY AIR FAN SHALL STOP. SPS-2 SHALL BE HARDWIRED TO THE SUPPLY FAN VSMC AND UNIT SHALL BE SHUTDOWN IN HAND/AUTO OR BYPASS MODE. SPS-2 WILL REQUIRE MANUAL RESET AT THE DEVICE.
- 4. HUMIDITY CONTROL**
 - 4.1 WHEN THE DIGITAL CONTROL PANEL IS NOT CALLING FOR HUMIDITY, SENSED BY RETURN AIR HUMIDITY MT-2, 2-WAY "ON-OFF" CONTROL VALVE V-3 SHALL REMAIN CLOSED. WHEN THE DIGITAL CONTROL PANEL IS CALLING FOR HUMIDITY, V-3 SHALL REMAIN OPEN.
 - 4.2 RETURN AIR HUMIDITY SHALL BE MAINTAINED AT OR ABOVE MINIMUM SETPOINT OF 35% RH (ADJ) VIA DIGITAL CONTROL PANEL (DCP) BY MODULATING CONTROL VALVE V-4 TO MAINTAIN THE DESIRED HUMIDITY. THE DCP SHALL OVERRIDE THIS CONTROL TO MAINTAIN A MAXIMUM SUPPLY AIR HUMIDITY OF 80% AS SENSED BY MT-1. DCP SHALL CLOSE VALVE V-3 WHENEVER THE SUPPLY FAN IS OFF.
- 5. FREEZE PROTECTION**
 - 5.1 IF THE AIR TEMPERATURE AS SENSED BY TT-3 FALLS BELOW 45°F (7°C), AN ALARM SIGNAL SHALL INDICATE AT THE DCP AND ECC. IF THIS TEMPERATURE FALLS BELOW 40°F (4.4°C), AS SENSED BY THE TSL, THE SUPPLY AND RETURN FANS SHALL SHUT DOWN AND A CRITICAL ALARM SHALL INDICATE AT THE DIGITAL CONTROL PANEL AND ECC. TSL SHALL BE HARDWIRED TO THE SUPPLY FAN UPD AND UNIT SHALL BE SHUTDOWN IN HAND/AUTO OR BYPASS MODE. TSL WILL REQUIRE MANUAL RESET AT THE DEVICE.
- 6. AUTOMATIC SHUTDOWN/RESTART**
 - 6.1 WHEN SMOKE IS DETECTED BY DUCT SMOKE DETECTOR, SD, THE SUPPLY AND RETURN FANS SHALL SHUT "OFF" AND AN ALARM SIGNAL SHALL BE TRANSMITTED TO THE FIRE ALARM SYSTEM. ALL SMOKE DAMPERS IN THE SUPPLY AND RETURN DUCTS SHALL CLOSE.
 - 6.2 EXHAUST FANS SERVING AREA OF THE SUPPLY FAN SHALL CONTINUE TO RUN. SUPPLY AND RETURN FANS SHALL RESTART AND SMOKE DAMPERS SHALL OPEN WHEN FIRE ALARM CIRCUIT IS RESET.
- 7. EMERGENCY CONSTANT SPEED OPERATION**
 - 7.1 UPON FAILURE OF THE VSMC, THE SUPPLY AND RETURN FANS SHALL BE STARTED/STOPPED MANUALLY AT THE DIGITAL CONTROL PANEL OR THE ECC THROUGH THE BY-PASS STARTER. FANS SHALL THEN BE OPERATED AT CONSTANT SPEED.

SYSTEM COMPONENT	POINT ID	ABBREVIATION	SYSTEM OUTPUTS		SYSTEM INPUTS		SYSTEM SOFTWARE/CONTROL		PAGE:
			BINARY	ANALOG	BINARY	ANALOG	ALARM PROCESSING	APPLICATION/FUNCTION	
RETURN AIR TEMPERATURE	AI-1	TT-4							
RETURN AIR HUMIDITY	AI-2	MT-2							
MIXED AIR TEMPERATURE	AI-4	TT-5							
PRE-HEAT TEMPERATURE	AI-5	TT-3							
COOLING COIL TEMPERATURE	AI-6	TT-6							
DISCHARGE AIR TEMPERATURE	AI-7	TT-1							
DISCHARGE STATIC PRESSURE	AI-8	SPS-1							
DISCHARGE AIR HUMIDITY	AI-9	MT-1							
OUTSIDE AIR TEMPERATURE	AI-11	TT-2							
RETURN LOW PRESSURE	BI-1	PSL-1							
SUPPLY FAN STATUS	BI-2	IT-2							
SUPPLY FAN STATUS	BI-3	IT-1							
MIXED AIR LOW LIMIT	BI-4	TSL-1							
STATIC PRESSURE HIGH LIMIT	BI-5	PSH-1							
HUMIDITY HIGH LIMIT	BI-6	MSH-1							
SUPPLY FAN VSMC ALARM	BI-7	ALM-1							
RETURN FAN VSMC ALARM	BI-8	ALM-2							
RETURN FAN VSMC	AD-1	SC-2							FULL COMMUNICATION
SUPPLY FAN VSMC	AD-2	SC-1							FULL COMMUNICATION
OUTSIDE AIR DAMPER	AO-3	D-1							
RETURN AIR DAMPER	AO-4	D-2							
EXHAUST AIR DAMPER	AO-5	D-3							
PRE-HEAT VALVE V-2	AO-6	V-2							
COOLING VALVE V-1	AO-9	V-1							
STEAM HUMIDIFIER VALVE	AO-10	V-4							
RETURN FAN START/STOP	BO-1	SST-2							
SUPPLY FAN START/STOP	BO-2	SST-1							
STEAM ISOLATION VALVE	BO-3	V-3							

2 POINTS LIST FOR VAV AIR HANDLING UNIT WITH MINIMUM OUTSIDE AIR

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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
MECHANICAL DIAGRAMS

Approved:

Phase
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FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
03/24/2021

Checked
JASSNE

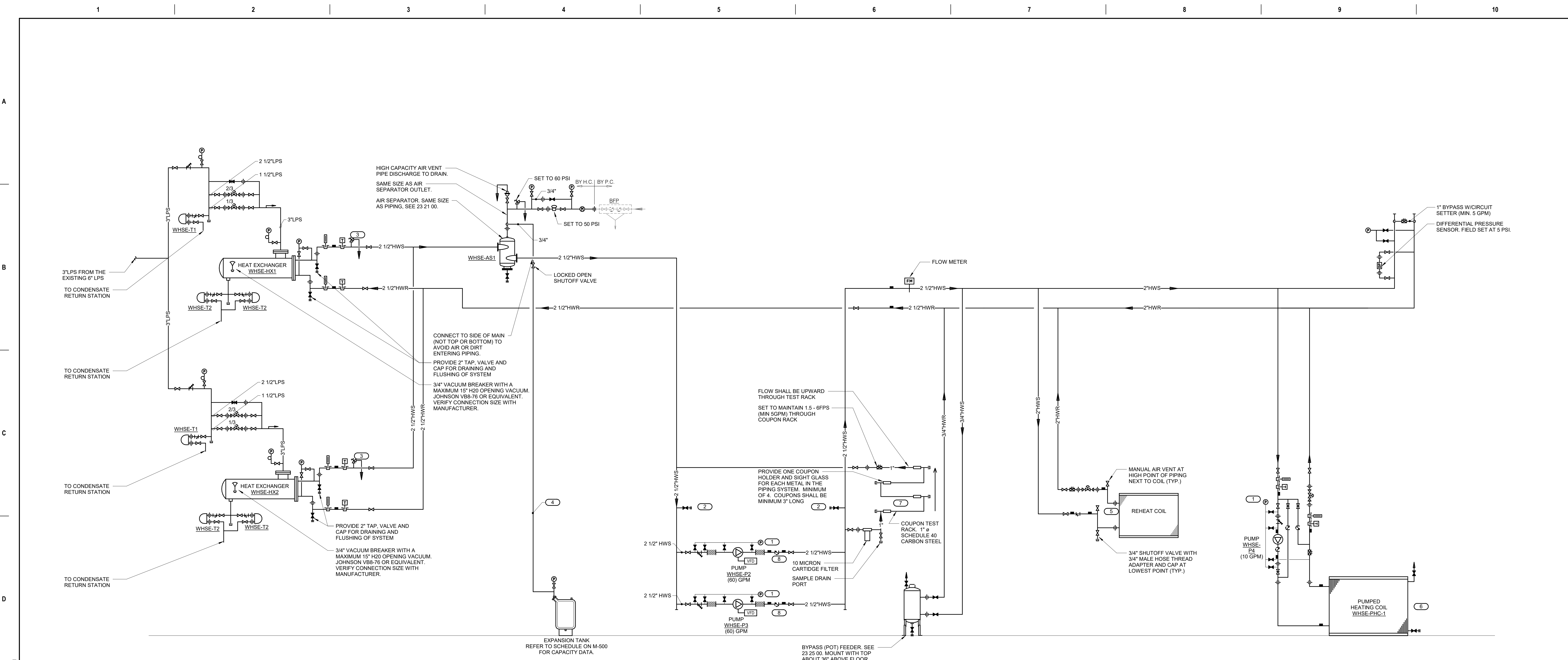
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ANUSHA

Project Number
589A4-20-158

Building Number
14

Drawing Number
M-401

Dwg. # 69 of 94



HEATING WATER FLOW DIAGRAM SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	COLD WATER - POTABLE
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	FLEXIBLE CONNECTION
	PRESSURE/TEMPERATURE TEST PLUG
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
	METER
	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	SUCTION DIFFUSER WITH SUPPORT FOOT
	AUTOMATIC AIR VENT
	MANUAL AIR VENT W/ BALL VALVE
	DRAIN WITH HOSE CONNECTION, CAP & BALL VALVE
	FLOW SWITCH
	FLOW METER
	TEMPERATURE SENSOR WITH WELL
	THERMOMETER WITH WELL (FILLED TYPE)
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	THROTTLING VALVE
	BALANCING VALVE
	CONTROL VALVE (TWO-WAY)
	CONTROL VALVE (THREE-WAY)
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	"WYE" - STRAINER
	"WYE" - STRAINER W/ SHUTOFF VALVE AND HOSE CONNECTION WITH CAP

- KEYNOTES**
- PRESSURE GAUGE WITH SNUBBER PER SECTION 23 09 13. INSTALL WITH MOUNTING ON WALL, STAND, OR VIBRATION-FREE PIPE ABOVE PUMP FLEXIBLE CONNECTOR. INSTALL FLEXIBLE COPPER TUBING TO PIPING CONNECTIONS TO AVOID VIBRATION DAMAGE TO THE GAUGE. PREFERRED CONNECTION LOCATIONS ARE: (a) JUST UPSTREAM OF STRAINER, (b) GAUGE PORT ON SUCTION DIFFUSER OR BETWEEN STRAINER AND PUMP INLET (c) GAUGE TAPPING ON PUMP INLET FLANGE, (d) GAUGE TAPPING ON PUMP OUTLET FLANGE.
 - PROVIDE 2 1/2" OR LARGER CONNECTIONS FOR CONNECTION OF FIRE HOSES FOR FLUSHING AND CLEANING OF SYSTEM, IF CHEMICAL CLEANING IS NOT USED.
 - INSTALL SAFETY RELIEF VALVE. PIPE TO DRAIN. SUPPORT SOLIDLY.
 - SIZE PER BLADDER TANK MANUFACTURER'S RECOMMENDATIONS BUT NOT SMALLER THAN CONNECTION TO TANK.
 - ARRANGE PIPING SO COILS CAN BE REMOVED WITHOUT REMOVING PIPING ABOVE THE UNIONS OR FLANGES. PIPE LOCATION MUST NOT RESTRICT OPENING OF ACCESS DOORS.
 - THE NUMBER OF COILS MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR SHALL SIZE PIPING TO EACH COIL SECTION AT NOT OVER 4 FEET OF PRESSURE DROP PER 100 FEET OF PIPE AND PROVIDE ADDITIONAL UNIONS, VALVES, AND FIT PLUGS AS SHOWN FOR COILS.
 - PROVIDE COUPON TEST RACK AS INDICATED FOR EACH SYSTEM AS SHOWN.
 - TRIPLE DUTY OR BALANCING VALVES ARE NOT PERMITTED ON VARIABLE VOLUME SYSTEMS.

1 HEATING WATER FLOW DIAGRAM - HEAT EXCHANGER VARIABLE/PRIMARY
NO SCALE

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VA U.S. Department of Veterans Affairs

Drawing Title
MECHANICAL DIAGRAMS

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Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201

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Drawn
ANUSHA

Project Number
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Building Number
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Drawing Number
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Dwg. # 70 of 94

AIR HANDLING UNIT SCHEDULE table with columns: MARK, LOCATION, AREA AND/OR BLDG SERVED, TYPE, AIR FLOW, SUPPLY, MIN OA, RETURN, SUPPLY FAN MARK, RETURN OR RELIEF FAN MARK, EXHAUST FAN MARK, PREFILTER MARK, AFTER FILTER MARK, FINAL FILTER MARK, HEAT RECOVERY MARK, PREHEAT COIL MARK, COOLING COIL MARK, REHEAT COIL, HUMIDIFIER MARK, REMARKS.

CHILLED WATER COOLING COIL SCHEDULE table with columns: MARK, LOCATION, AREA AND/OR BLDG SERVED, SYSTEM AND/OR SERVICE, AIR FLOW, MAX FACE VELOCITY, APD, EAT, LAT, TOTAL CAPACITY, SENSIBLE CAPACITY, FLOW, EWT, LWT, WPD, REMARKS.

AIR FILTER SCHEDULE table with columns: MARK, LOCATION, AREA AND/OR BLDG SERVED, SYSTEM AND/OR SERVICE, MERV RATING, AIR FLOW, APD, HOUSING TYPE, CARTRIDGES (IN, SIZE, ARRANGEMENT), REMARKS.

HOT WATER HEATING COIL SCHEDULE table with columns: MARK, LOCATION, AREA AND/OR BLDG SERVED, SYSTEM AND/OR SERVICE, APPLICATION, AIR FLOW, MAX FACE VELOCITY, MAX APD, TEMPERATURES (EAT, LAT), TOTAL MIN CAPACITY, FLOW, EWT, LWT, WPD, % GLYCOL, REMARKS.

SINGLE DUCT AIR TERMINAL UNIT SCHEDULE table with columns: MARK, LOCATION, AREA AND/OR ROOM SERVED, SYSTEM AIR HANDLING, SIZE, AIR FLOW (MAX, MIN), ADDITIONAL SOUND ATTENUATION REQUIRED, CONTROL TYPE, CONTROL SEQUENCE, REHEAT (HW, ELEC, NONE), PERIMETER SUPPLEMENTAL HEAT LINK, REMARKS.

AIR TERMINAL UNIT SIZING SCHEDULE table with columns: SIZE, MIN ALLOWABLE AIR FLOW, MAX ALLOWABLE AIR FLOW, DUCT INLET SIZE, MAX APD, MAXIMUM SOUND POWER LEVEL (Re: 10-12 WATTS) FOR BOX DISCHARGE AT MAXIMUM INLET DUCT STATIC, HOT WATER HEATING COIL (EAT, EWT, FLOW, MAX WPD, PIPE RUNOUT SIZE), REMARKS.

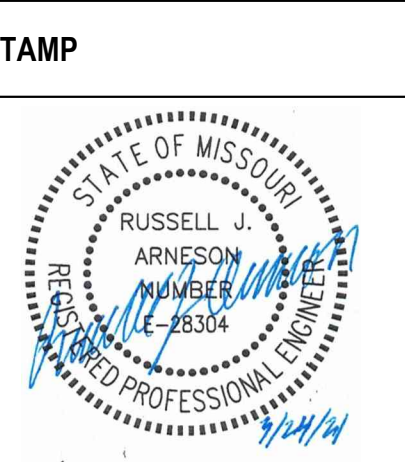
ELECTRIC UNIT HEATER SCHEDULE table with columns: MARK, LOCATION, AREA AND/OR BLDG SERVED, TYPE, AIR FLOW, EAT, MIN CAPACITY, POWER (AMP, PHASE, VOLT), FAN MOTOR (FAN POWER, PHASE, VOLT), REMARKS.

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Office of Construction and Facilities Management U.S. Department of Veterans Affairs

Drawing Title: MECHANICAL SCHEDULES Approved:

Phase: BID SET FULLY SPRINKLERED

Project Title: RENOVATE WAREHOUSE FOR PANDemic PREPAREDNESS Location: HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201 Issue Date: 03/24/2021 Checked: JASSNE Drawn: ANUSHA

Project Number: 589A4-20-158 Building Number: 14 Drawing Number: M-501 Dwg. # 72 of 94

ELECTRICAL SYMBOL LIST		
SYMBOL:	SPEC SECTION:	DESCRIPTION:
	26 05 33	ELECTRICAL CONNECTION
	26 05 33	JUNCTION BOX
	26 05 35	MULTI OUTLET SYSTEM
	26 05 35	ELECTRICAL WIREWAY w DEVICES SHOWN
	26 24 16	PANELBOARD - SURFACE MOUNT
	26 24 19	MANUAL SWITCH / STARTER / COMBINATION STARTER CIRCUIT BREAKER. REFER TO DISCISTA SCHEDULE
	26 22 00	TRANSFORMER. REFER TO TRANSFORMER SCHEDULE
	26 28 16	DISCONNECT SWITCH. REFER TO DISCISTA SCHEDULE

ELECTRICAL SYMBOL LIST		
SYMBOL:	SPEC SECTION:	DESCRIPTION:
	26 27 26	DUPLEX RECEPTACLE, 125V
	26 27 26	DUPLEX GFI RECEPTACLE, 125V
	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
	26 27 26	DUPLEX RECEPTACLE, USB CHARGING
	26 27 26	QUAD RECEPTACLE, 125V

ELECTRICAL ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

APPLICABLE CODES	
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.	
BUILDING CODE:	IBC 2018 EDITION
FIRE CODE:	NFPA 1 2018 EDITION
PLUMBING CODE:	IPC 2018 EDITION
MECHANICAL CODE:	IMC 2018 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2018 EDITION
ENERGY CONSERVATION CODE:	ASHRAE 90.1 2013
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

ELECTRICAL SYMBOL LIST		
SYMBOL:	SPEC SECTION:	DESCRIPTION:
	26 09 23	SWITCH - SINGLE POLE
	26 09 23	SWITCH - THREE WAY
	26 09 23	DIMMER - LED
	26 09 23	DIMMER - WALL DIMMER
	26 09 23	OCCUPANCY SENSOR
	26 09 23	PHOTOCELL
	26 09 23	OCCUPANCY SENSOR - DUAL TECHNOLOGY
	26 09 23	OCCUPANCY SENSOR - HIGH BAY AISLE COVERAGE
	26 09 23	OCCUPANCY SENSOR - HIGH BAY
	26 09 23	SWITCH - OCCUPANCY SENSOR WALL SWITCH
	26 09 23	OCCUPANCY SENSOR - PASSIVE INFRARED 360 DEGREE COVERAGE
	26 09 23	OCCUPANCY SENSOR - ULTRASONIC 360 DEGREE COVERAGE
	26 09 23	OCCUPANCY SENSOR - ULTRASONIC - WALL MOUNTED
	26 09 23	WALL CONTROL STATION
	26 09 23	TIME SWITCH

ELECTRICAL SYMBOL LIST			
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
			LINEAR LUMINAIRE
			TROFFER
			DOWNLIGHT LUMINAIRE
			INDUSTRIAL LUMINAIRE
			WALL BRACKET LUMINAIRE
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN
			WALL/CEILING EMERGENCY EXIT SIGN
			EMERGENCY UNIT

ELECTRICAL EQUIPMENT TAGS		
TAG:	DESCRIPTION:	RELATED SPECIFICATION
MCC#	MOTOR CONTROL CENTER	EXISTING
MS#	MANUAL SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19
SPD#	SURGE PROTECTION DEVICE	26 43 13

LUMINAIRE SYMBOL KEY	
SYMBOL:	DESCRIPTION:
	EMERGENCY BRANCH LUMINAIRE

VIEW KEY

NAME: LEVEL NAME
10' - 0"

HEIGHT ABOVE PROJECT: 0' - 0"

INDICATES DIRECTION OF TRUE NORTH

1: VIEW NAME
1/8" = 1'-0"
PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

NEW

EXISTING TO BE REMOVED (SHORT DASHED PATTERN)

NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

EXISTING

EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)

EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

TAG-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 UNDERLINED TEXT INDICATES ADDITIONAL INFORMATION CAN BE FOUND ELSEWHERE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEMS POINT OF CONNECTION/REMOVAL

CONDUIT INSTALLATION SCHEDULE			
THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 25 05 33 FOR ADDITIONAL INFORMATION.			
INSTALLATION TYPE	RMC	IMC	EMT
FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, MOTOR CONTROL CENTERS, ETC.		X	X
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X	X
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X	X
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		X	X
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X	X
FINISHED SPACES / CONCEALED			X
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X		
INTERIOR LOCATIONS: CONCEALED			X
INTERIOR LOCATIONS: EXPOSED		X	X

ELECTRICAL RENOVATION NOTES:

- THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
 - NOT ALL EXISTING EQUIPMENT, LUMINAIRE, AND CONDUIT ARE SHOWN. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS WITH NEW WORK BEFORE STARTING WORK.
 - FIELD VERIFY THE AVAILABLE CLEARANCES FOR CABLE TRAY, BUSWAY AND CONDUITS BEFORE FABRICATION. RISERS AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
 - EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
 - WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

ELECTRICAL PHASING NOTES:

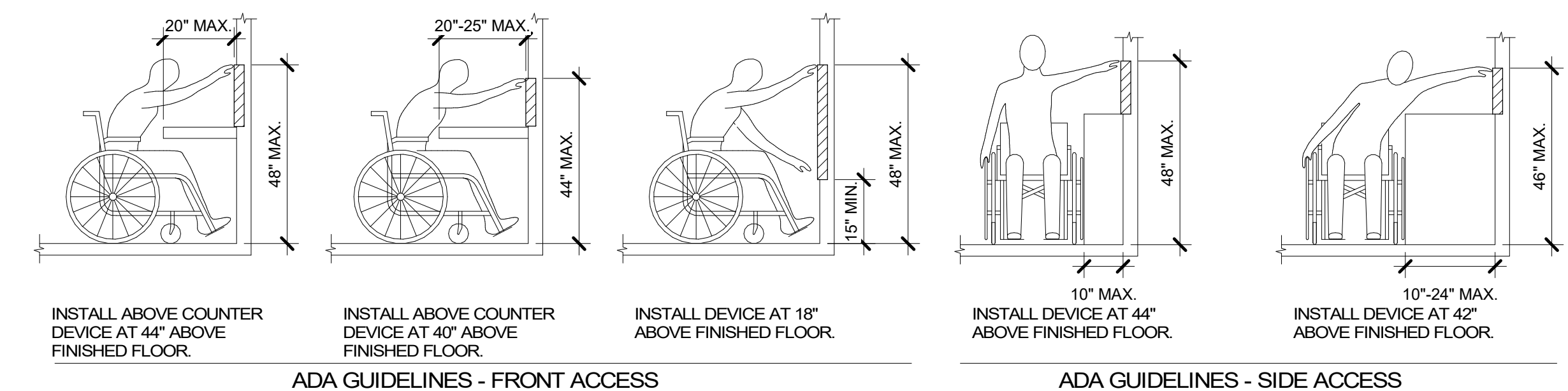
- THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.
- REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO ARCHITECT'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
 - REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
 - PROVIDE TEMPORARY LIGHTING, POWER, SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
 - INSTALL TEMPORARY LIGHTING, CIRCUITS, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
 - PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

ELECTRICAL GENERAL NOTES:

- INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE. NOT ELECTRICAL EQUIPMENT TAG NAME. REFER TO SPECIFICATIONS.
 - INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E-400.
 - "NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.
 - REFER TO SHEET E-400 FOR LIGHTING CONTROL ONE-LINE DIAGRAM.
 - REFER TO SHEET E-400 FOR LUMINAIRE SCHEDULE.
 - "LUM" DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE. REFER TO SHEET E-400.
 - VACANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER SPECIFIC FLOOR PLAN LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH CONTROL DEVICE, SENSOR, AND CONTROLLER/INTERFACE. AREAS REQUIRING MULTIPLE SENSOR DEVICES FOR APPROPRIATE COVERAGE, SUBMIT SPECIFIC MANUFACTURER-APPROVED SENSOR LAYOUT AS AN OVERLAY DIRECTLY ON THE PROJECT DRAWINGS, EITHER IN PRINT OR APPROVED ELECTRONIC FORM.
- LUMINAIRE KEY:**
- F1 = FIXTURE TAG
1 = CIRCUIT NUMBER
= SWITCH DESIGNATION
NL = SUBSCRIPT (IF APPLICABLE)
- *IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL
- DEVICE KEY:**
- A = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER
- *IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1
- ELECTRICAL MOUNTING SUBSCRIPT KEY:**
- A = MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPASH

ELECTRICAL INSTALLATION NOTES:

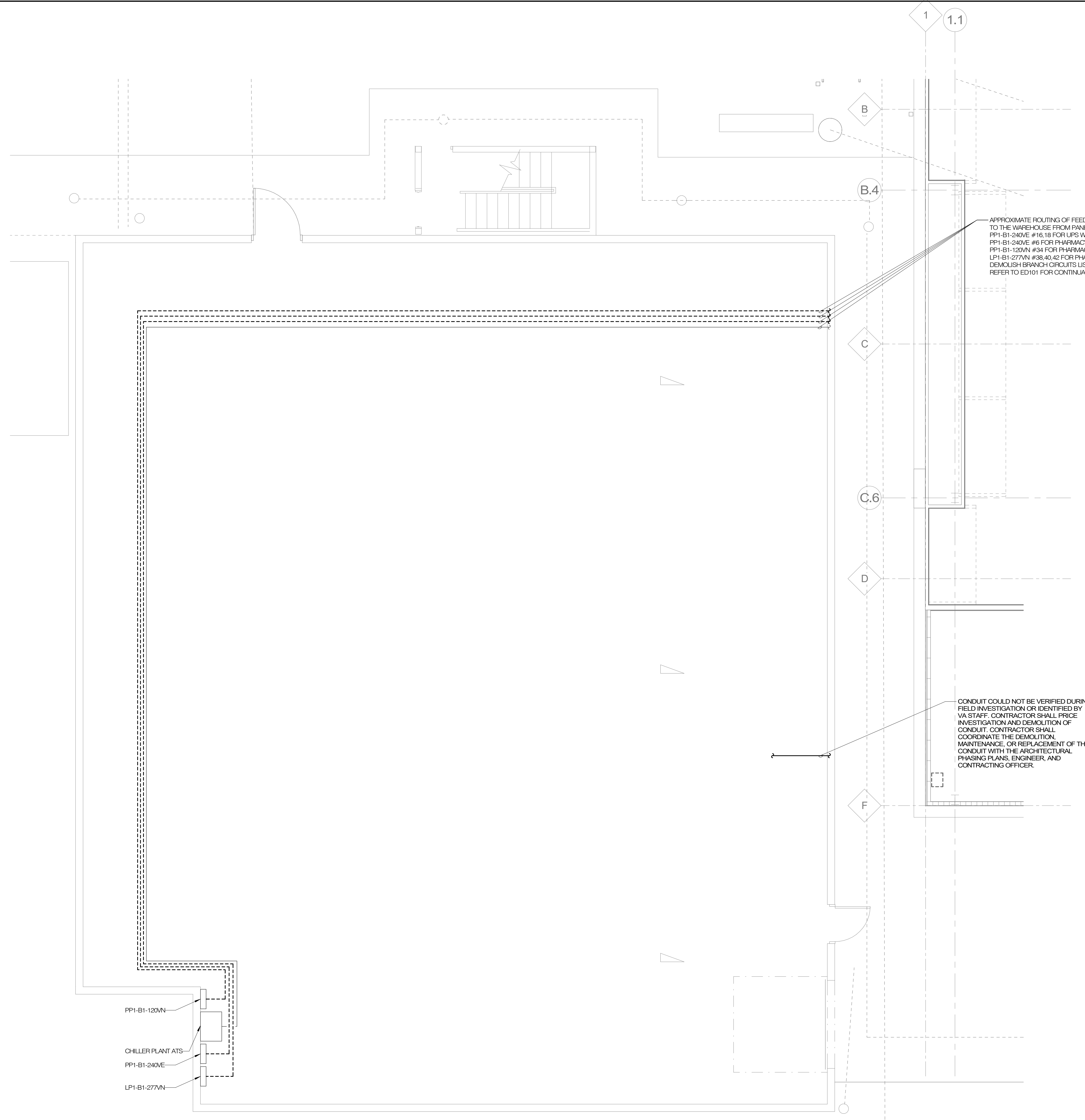
- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- LIFE SAFETY AND EQUIPMENT BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS** SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH.
- FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
- FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO DIVISION 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRE, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
- ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, OR EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER. PRIOR TO START OF WORK, THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
- CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- ELECTRICAL IDENTIFICATION: REFER TO APPROPRIATE SPECIFICATION SECTION 26 05 11 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLEWIRE, AND EQUIPMENT.



ADA STANDARDS FOR ACCESSIBLE DESIGN

<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elkhorn, Nebraska 68022 Phone: 402.291.6941 Fax: 402.291.9193</p>		<p>IMEG Incandescence Life Safety, Inc. 3025 Binquet Court #100, Bellevue, CO, 80236 Phone: (720) 222-9010</p> <p>incandescence life safety a fire protection engineering firm</p>		<p>STAMP</p> <p>ZACHARY W. CRITER Professional Engineer No. 000000000 03/24/2021</p>		<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>		<p>Drawing Title</p> <p>ELECTRICAL COVERSHEET</p>		<p>Phase</p> <p>BID SET</p>		<p>Project Title</p> <p>RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS</p>		<p>Project Number</p> <p>589A4-20-158</p>			
<p>BID SET</p> <p>Revisions:</p>		<p>03/24/2021</p> <p>Date:</p>		<p>CLH Calvin L. Hinz ARCHITECTS, P.C.</p>		<p>VA</p>		<p>Approved:</p>		<p>FULLY SPRINKLERED</p>		<p>Location</p> <p>HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201</p>		<p>Building Number</p> <p>14</p>			
										<p>Issue Date</p> <p>03/24/2021</p>		<p>Checked</p> <p>MARHAR</p>		<p>Drawn</p> <p>MASRYA</p>		<p>Drawing Number</p> <p>E-000</p>	
														<p>Dwg. # 73 of 94</p>			

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APPROXIMATE ROUTING OF FEED TO CHILLER PLANT ATS AND EXISTING BRANCH CIRCUITS TO THE WAREHOUSE FROM PANELS:
 PP1-B1-240VE #16, 18 FOR UPS WAREHOUSE (FEEDS IT SWITCH IN CLOSET W065);
 PP1-B1-240VE #6 FOR PHARMACY ALARM WHS;
 PP1-B1-120VN #34 FOR PHARMACY REFR. WHS;
 LP1-B1-277VN #38, 40, 42 FOR PHARMACY A/C IN WAREHOUSE.
 DEMOLISH BRANCH CIRCUITS LISTED ABOVE.
 REFER TO ED101 FOR CONTINUATION.

CONDUIT COULD NOT BE VERIFIED DURING FIELD INVESTIGATION OR IDENTIFIED BY VA STAFF. CONTRACTOR SHALL PRICE INVESTIGATION AND DEMOLITION OF CONDUIT. CONTRACTOR SHALL COORDINATE THE DEMOLITION, MAINTENANCE, OR REPLACEMENT OF THE CONDUIT WITH THE ARCHITECTURAL PHASING PLANS, ENGINEER, AND CONTRACTING OFFICER.

PP1-B1-120VN
 CHILLER PLANT ATS
 PP1-B1-240VE
 LP1-B1-277VN

1 CHILLER PLANT PLAN - ELECTRICAL
1/4" = 1'-0"

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BID SET	03/24/2021
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ZACHARY W. CARTER
Professional Engineer
No. 17220
03/24/2021

Office of Construction and Facilities Management
 VA U.S. Department of Veterans Affairs

Drawing Title
CHILLER PLANT PLAN - ELECTRICAL

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
 HARRY S. TRUMAN MEM. VETERANS HOSPITAL
 800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
 03/24/2021

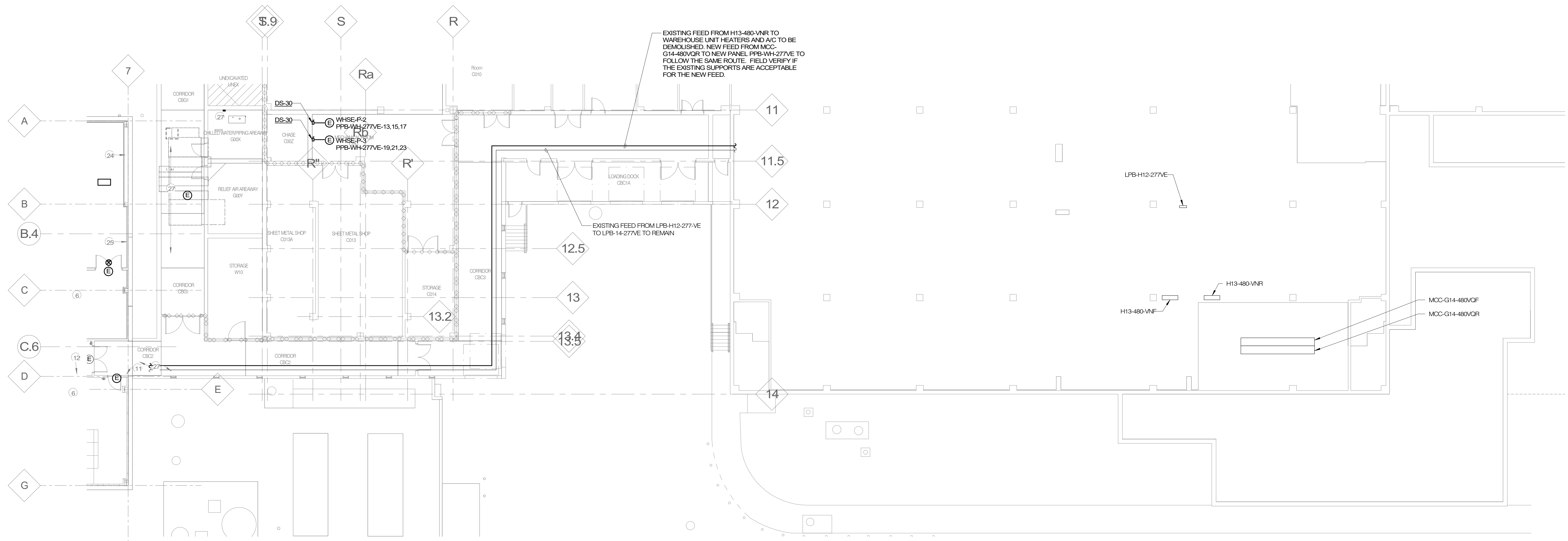
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 MARHAR

Drawn
 MASRYA

Project Number
 589A4-20-158

Building Number
 14

Drawing Number
E-110
 Dwg. # 74 of 94



EXISTING FEED FROM H13-480-VNR TO WAREHOUSE UNIT HEATERS AND A/C TO BE DEMOLISHED. NEW FEED FROM MCC-G14-480VDR TO NEW PANEL PPB-WH-277VE TO FOLLOW THE SAME ROUTE. FIELD VERIFY IF THE EXISTING SUPPORTS ARE ACCEPTABLE FOR THE NEW FEED.

EXISTING FEED FROM LPB-H12-277VE TO LPB-14-277VE TO REMAIN

1 BASEMENT BUILDING 1 PLAN - ELECTRICAL
3/32" = 1'-0"

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 ZACHARY W. CARTER
 PROFESSIONAL ENGINEER
 03/24/2021

Office of Construction and Facilities Management
 VA U.S. Department of Veterans Affairs

Drawing Title
BASEMENT BUILDING 1 PLAN - ELECTRICAL

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
 HARRY S. TRUMAN MEM. VETERANS HOSPITAL
 800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
 03/24/2021

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 MARHAR

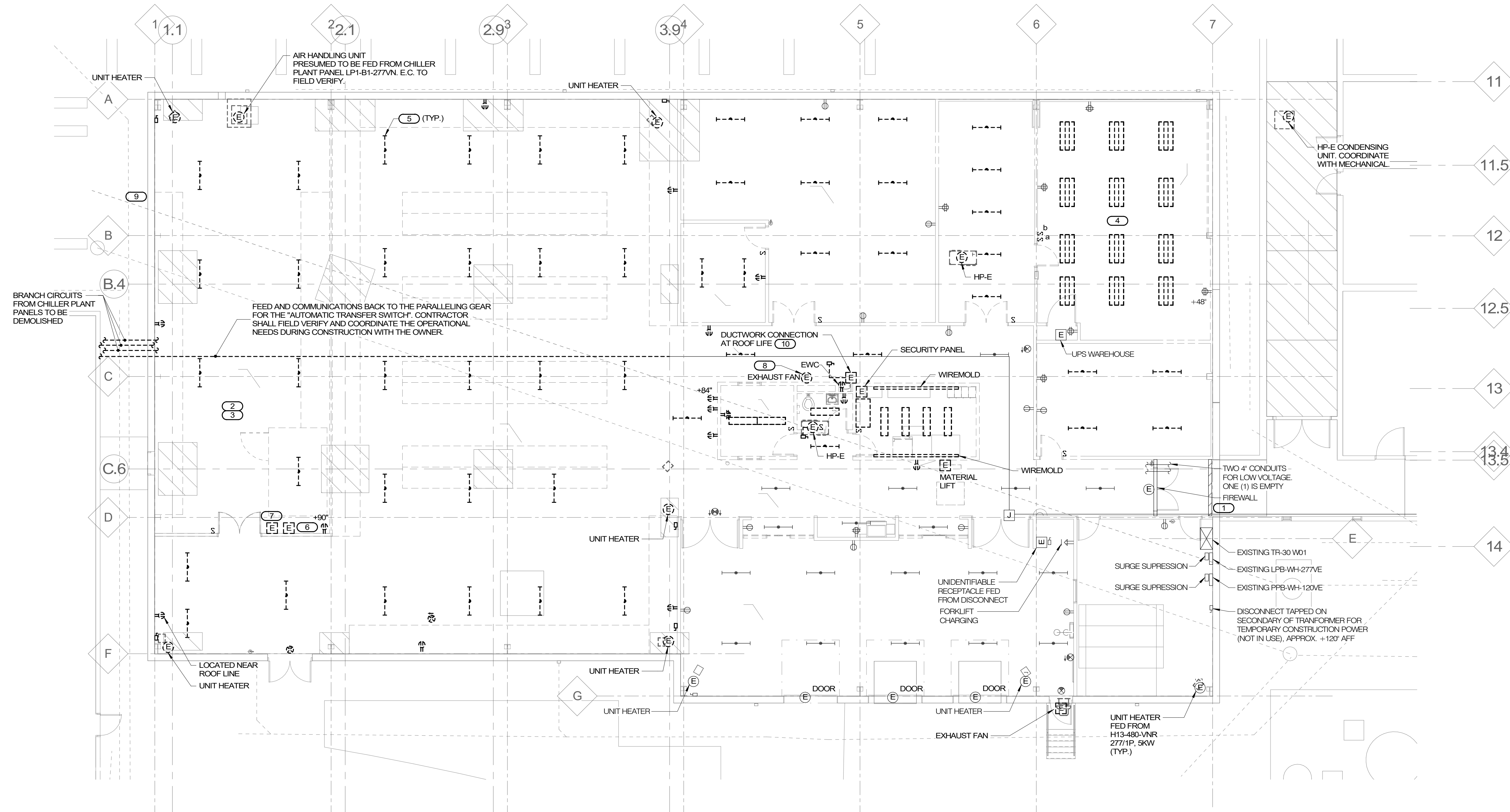
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 MASRYA

Project Number
 589A4-20-158

Building Number
 14

Drawing Number
E-111
 Dwg. # 75 of 94

- SHEET NOTES:**
- COORDINATE PHASING WITH ARCHITECTURAL PLANS AND OTHER DISCIPLINES.
- KEYNOTES: (#)**
- EXISTING OVERHEAD CMU IN CORRIDOR WITH ELECTRICAL CONDUITS PENETRATING IT, INCLUDING FEEDS TO WAREHOUSE UNIT HEATERS AND LFB-WH-277VE. FEEDS TO WAREHOUSE UNIT HEATERS AND A/C ORIGINATE IN BUILDING 1 ROOM D020. MOTOR CONTROL CENTER H13-480-VNR. CONDUIT TO BE MADE SAFE FOR REUSE AND SECTIONS WITHIN H13-480-VNR FOR WAREHOUSE UNIT HEATERS AND A/C TO BE MADE SPARES.
 - THE FOLLOWING CIRCUITS IN THE EXISTING DRUG CACHE ARE FED FROM PANELS IN THE CHILLER PLANT: PP1-B1-240VE #16 FOR "UPS WAREHOUSE", PP1-B1-240VE #6 FOR "PHARMACY ALARM-WHS", PP1-B1-120VN #34 FOR "PHARMACY REFR-WHS", AND LFB-WH-277VN #38,40,42 FOR "PHARMACY A/C IN WAREHOUSE". THESE CIRCUITS ARE TO BE DEMOLISHED AND THE BREAKERS MADE SPARE. THESE LOADS WILL BE REFEED OUT OF WAREHOUSE PANELS IN NEW WORK.
 - ALL EXISTING BRANCH CIRCUITRY IN THE EXISTING DRUG CACHE SHALL BE DEMOLISHED.
 - DEMOLISH EXISTING LUMINAIRE IN THIS ROOM AND SALVAGE FOR REUSE DURING NEW CONSTRUCTION. REFER TO NEW WORK SHEET EL101 FOR LOCATION.
 - EXISTING SUSPENDED INDUSTRIAL LINEAR FIXTURES SHOWN AS DEMO SHALL BE PREPARED FOR REUSE.
 - PHARMACY ALARM-WHS, PRESUMED TO BE FED FROM CHILLER PLANT PANEL PP1-B1-240VE. E.C. TO FIELD VERIFY.
 - APPROXIMATE LOCATION OF UPS WAREHOUSE, PRESUMED TO BE FED FROM CHILLER PLANT PANEL PP1-B1-240VE. E.C. TO FIELD VERIFY.
 - CONNECTION TO EXISTING EXHAUST FAN ON ROOF ABOVE TO BE DEMOLISHED. COORDINATE WITH M.C.
 - REFER TO V-100 FOR EXISTING "UE" LINE RUNNING DIAGONALLY BELOW THE BUILDING. THIS ELECTRIC LINE IS FROM THE ORIGINAL CONSTRUCTION OF THE CHILLER PLANT. THE LINE SHALL BE CUT AND CAP JUST WEST OF THE WAREHOUSE IN APPROXIMATELY THIS LOCATION.
 - E.C. TO FIELD VERIFY THIS CONNECTION AND ASSOCIATED DISCONNECT AND COORDINATE DEMOLITION WITH CONTRACTING OFFICER.



1 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION
1/8" = 1'-0"

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03/24/2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

Approved:

Phase
BID SET

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Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
03/24/2021

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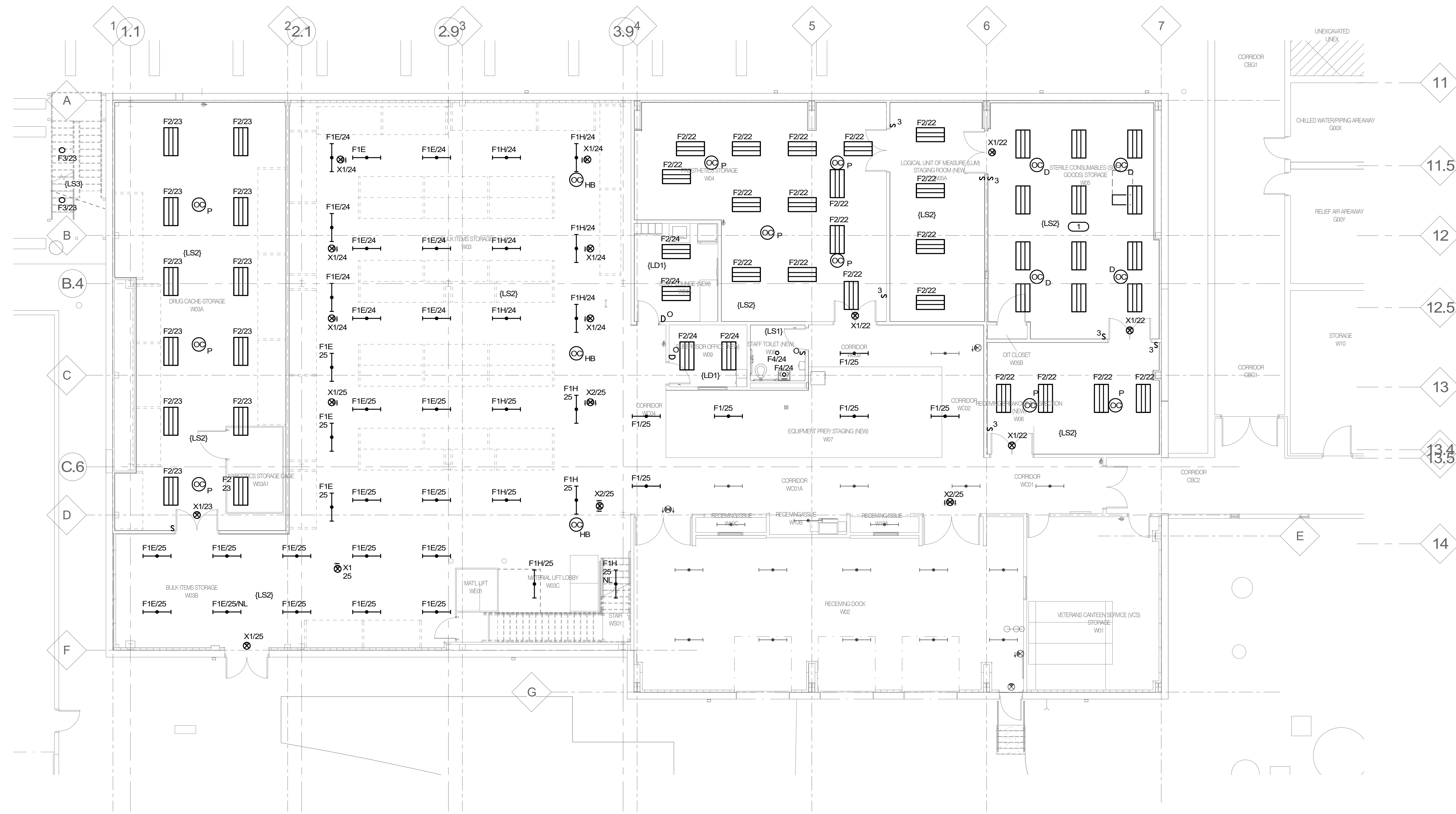
Project Number
58944-20-158

Building Number
14

Drawing Number
ED101

Dwg. # 76 of 94

- SHEET NOTES:**
- ALL SHOWN LIGHTING CIRCUITS ON THIS SHEET SHALL BE CIRCUITED TO PANEL LPB-14-277VE LOCATED IN VETERANS CANTEN SERVICE (VCS) STORAGE ROOM W01, UNLESS NOTED OTHERWISE.
 - REFER TO SHEET E000 FOR ELECTRICAL SYMBOLS AND NOTES.
 - EXIT SIGNS SHALL PENDENT MOUNT FROM HIGH ROOF STRUCTURES SO THAT BOTTOM OF EXIT SIGN SHALL BE LESS THAN 9' AFF.
- KEYNOTES: #**
- REINSTALL EXISTING LUMINAIRES SALVAGED DURING DEMOLITION AND USE EXISTING CIRCUIT OR CONNECT TO CIRCUIT 22 IN LPB-14-277VE PANEL IN THE CASE OF EXISTING CIRCUIT CANNOT BE UTILIZED.



1 FIRST FLOOR PLAN - ELECTRICAL LIGHTING
1/8" = 1'-0"

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
FIRST FLOOR PLAN - ELECTRICAL LIGHTING

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
03/24/2021

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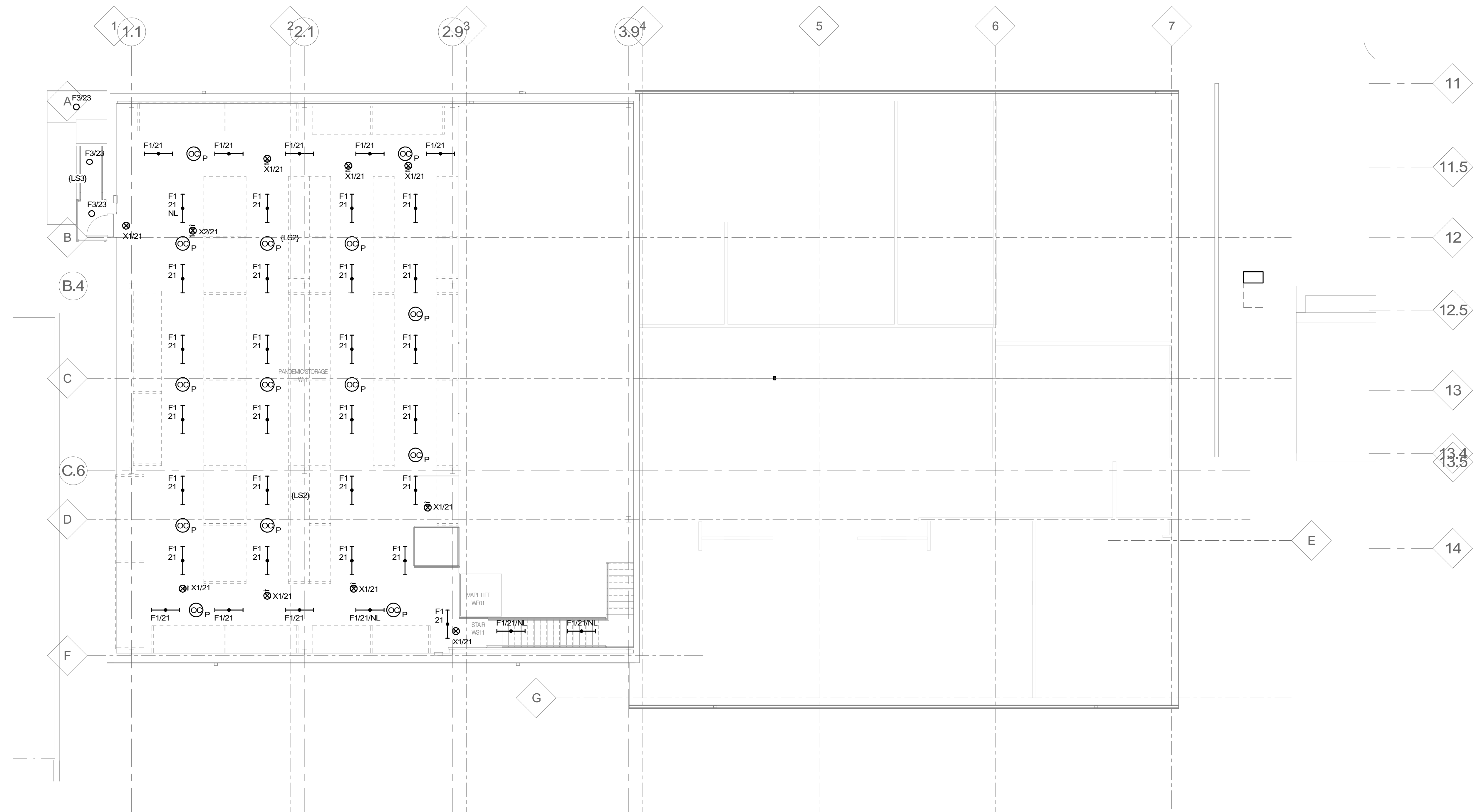
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MASRYA

Project Number
589A4-20-158

Building Number
14

Drawing Number
EL101
Dwg. # 77 of 94

- SHEET NOTES:**
1. ALL SHOWN LIGHTING CIRCUITS ON THIS SHEET SHALL BE CIRCUITED TO PANEL LPB-14-27/VE LOCATED IN VETERANS CANTINEEN SERVICE (VCS) STORAGE ROOM W01, UNLESS NOTED OTHERWISE.
 2. REFER TO SHEET E000 FOR ELECTRICAL SYMBOLS AND NOTES.
 3. EXIT SIGNS SHALL PENDENT MOUNT FROM HIGH ROOF STRUCTURES SO THAT BOTTOM OF EXITSIGN SHALL BE LESS THAN 9' AFF.



1 MEZZANINE FLOOR PLAN - ELECTRICAL LIGHTING
1/8" = 1'-0"

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03/24/2021

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title
MEZZANINE FLOOR PLAN - ELECTRICAL LIGHTING

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

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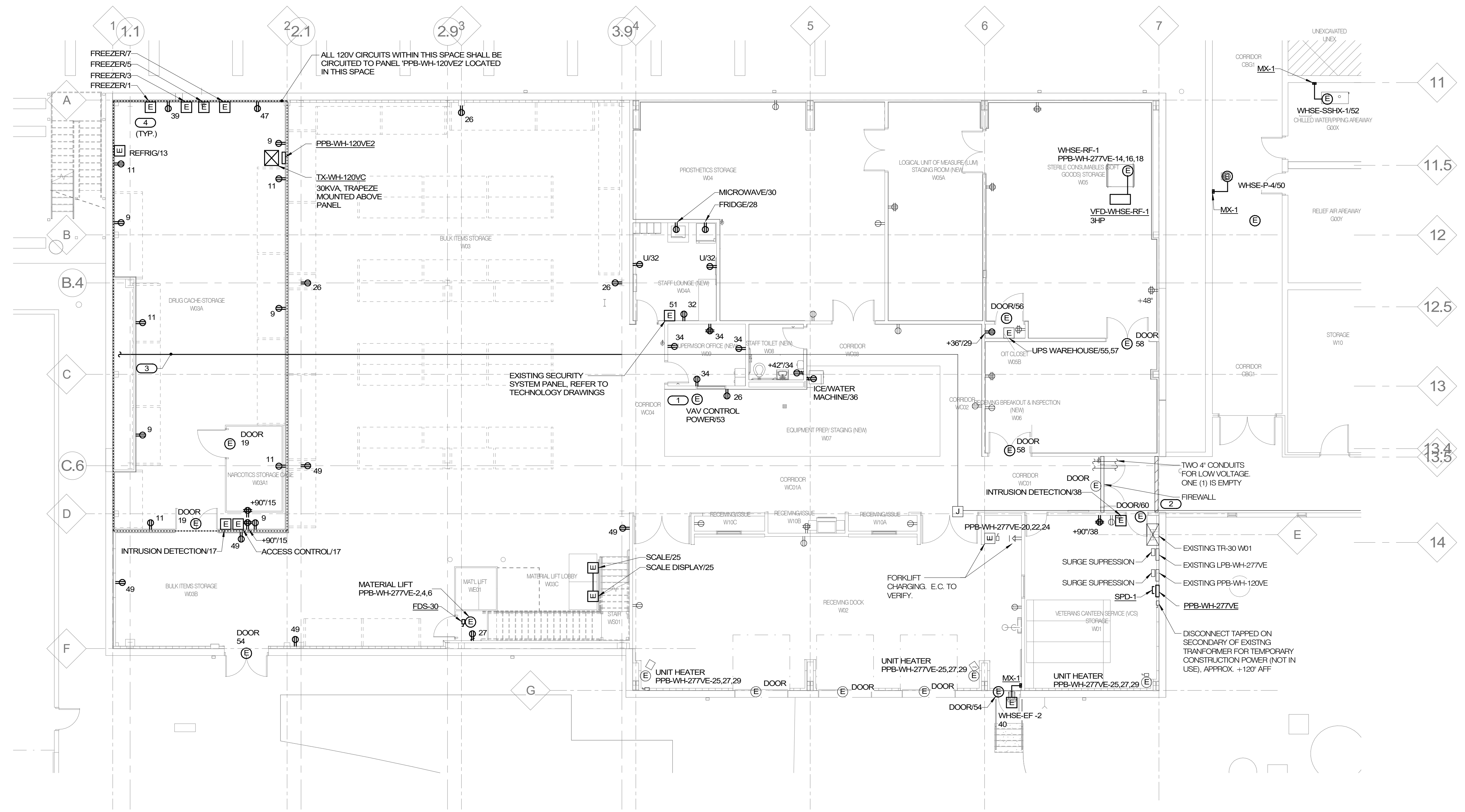
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MASRYA

Project Number
589A4-20-158

Building Number
14

Drawing Number
EL102
Dwg. # 78 of 94

- SHEET NOTES:**
- COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND CONTRACTOR
 - ALL 208 OR 120V CIRCUITS IN THIS SHEET SHALL BE CIRCUITED TO PANEL PPB-WH-120VE2 LOCATED IN VETERANS CANTINE SERVICE (VCS) STORAGE ROOM W01. UNLESS OTHERWISE NOTED.
- KEYNOTES: (E)**
- E.C. SHALL PROVIDE A 500VA 120/24VDC TRANSFORMER FOR VAV CONTROLS. COORDINATE LOCATION AND TERMINATION TO TRANSFORMER WITH TEMPERATURE CONTROLS CONTRACTOR. SEE DETAIL 9E-300.
 - EXISTING OVERHEAD CMU. CORE DRILLING MAY BE REQUIRED FOR NEW FEEDS FROM BUILDING 1.
 - FEEDS OF CHILLER PLANT ITS NOTED ON ED101. MATCH EXISTING WIRE AND CONDUIT.
 - E.C. SHALL VERIFY AND PROVIDE CORRECT CONNECTION TYPES FOR ALL VAV-PROVIDED FRIDGES AND FREEZERS IN W03A.



1 FIRST FLOOR PLAN - ELECTRICAL POWER
1/8" = 1'-0"

1 2 3 4 5 6 7 8 9 10

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BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

CLH
Calvin L. Hinz Architects, P.C.
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ZACHARY W. CARTER
Professional Engineer
No. 000000000
03/24/2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FIRST FLOOR PLAN - ELECTRICAL POWER

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

Checked
MARHAR

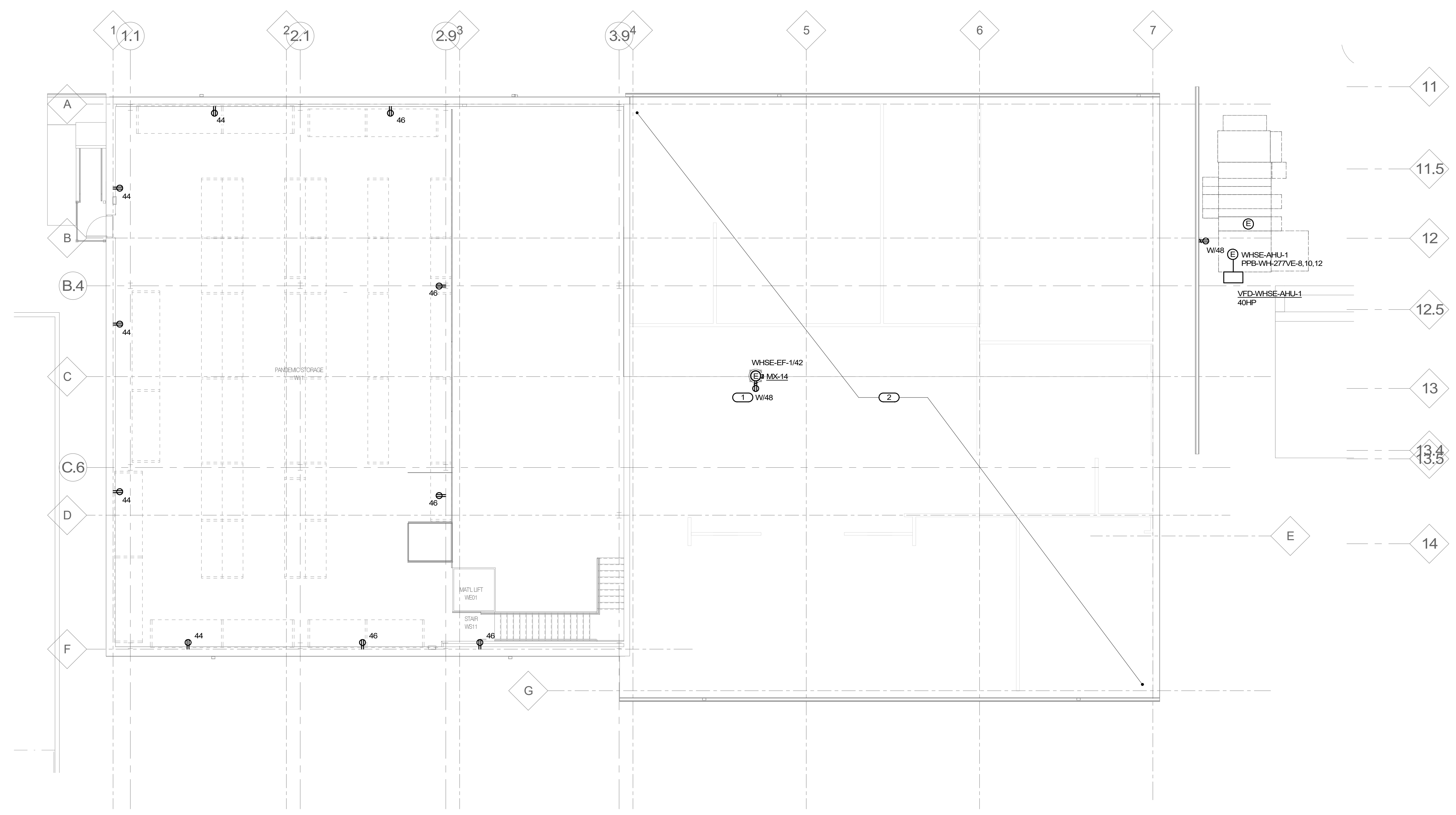
Drawn
MASRYA

Project Number
58944-20-158

Building Number
14

Drawing Number
EP101
Dwg. # 79 of 94

- SHEET NOTES:**
- COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND CONTRACTOR.
- KEYNOTES:** (#)
- MOUNT TO EXISTING CURB.
 - PROVIDE LIGHTNING PROTECTION ON THE ROOF OF THE ENTIRE WAREHOUSE PER SPECIFICATION SECTION 26 41 00. THIS INCLUDES THE UPPER ROOF (OVER THE MEZZANINE) AND THE LOWER ROOF.



MEZZANINE FLOOR PLAN - ELECTRICAL POWER
 1/8" = 1'-0"

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BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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incandescence life safety
a fire protection engineering firm

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ZACHARY W. CARTER
Professional Engineer
03/24/2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
MEZZANINE FLOOR PLAN - ELECTRICAL POWER

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
**HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date
03/24/2021

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Drawn
MASRYA

Project Number
589A4-20-158

Building Number
14

Drawing Number
EP102
Dwg. # 80 of 94

A

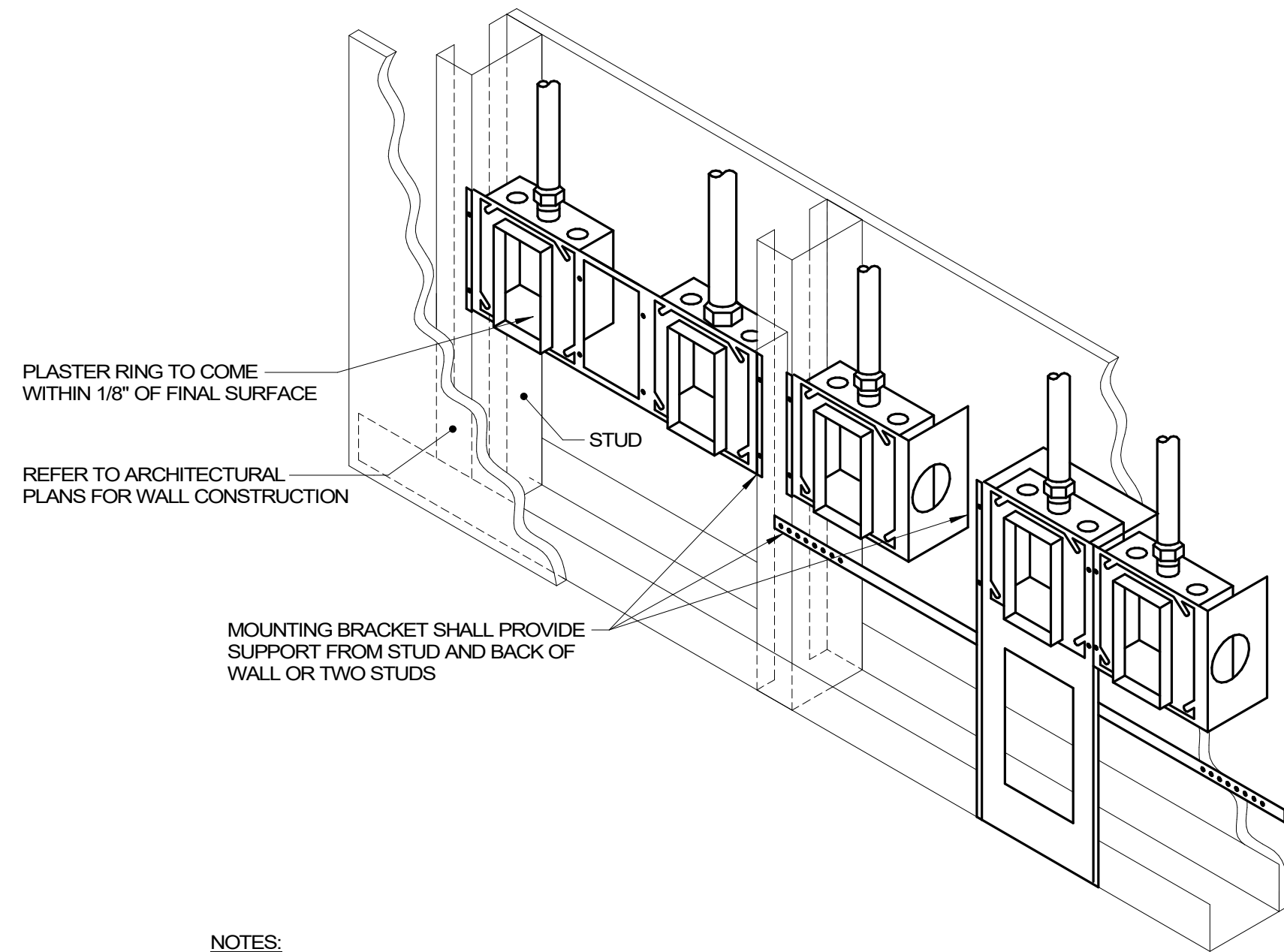
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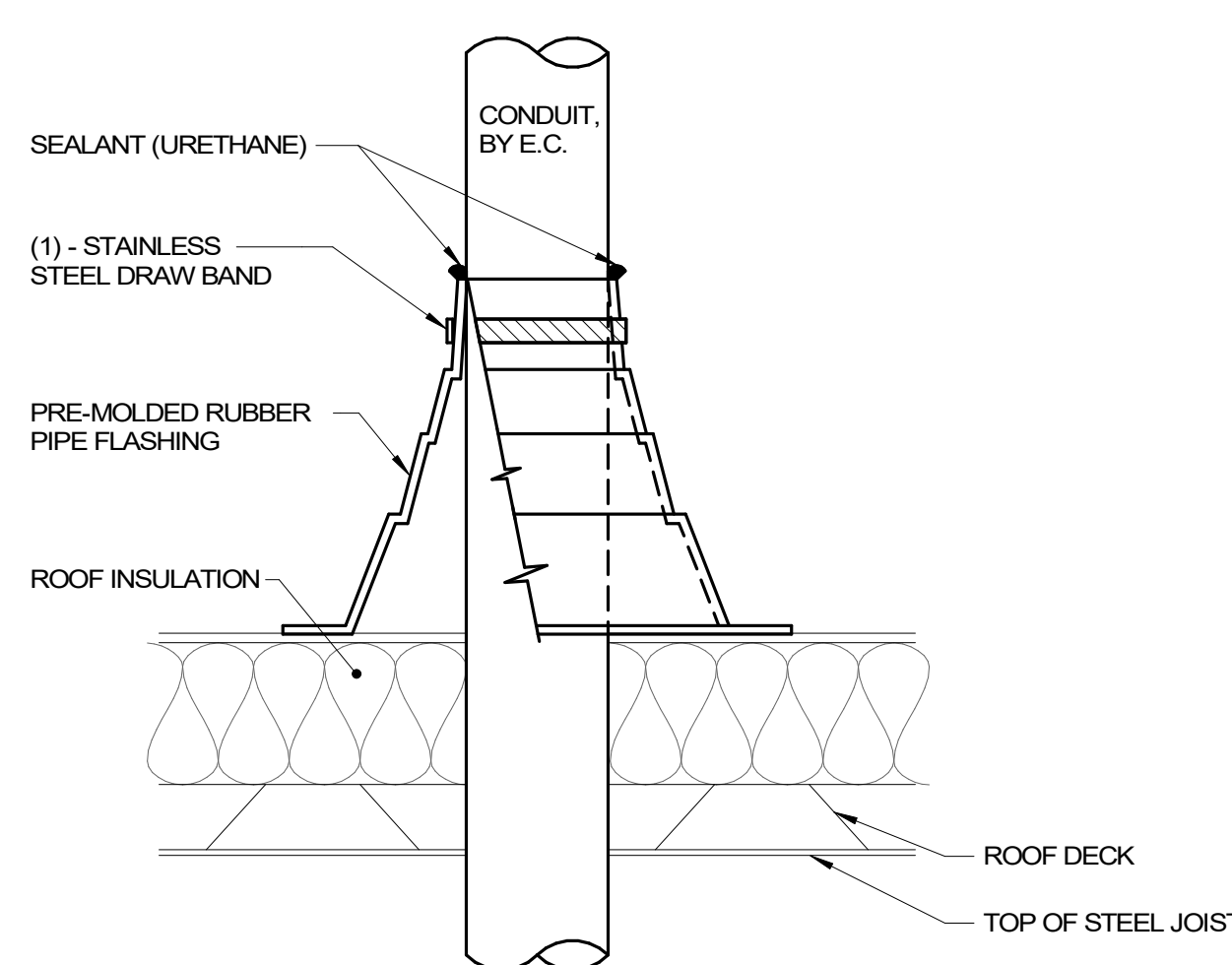
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F



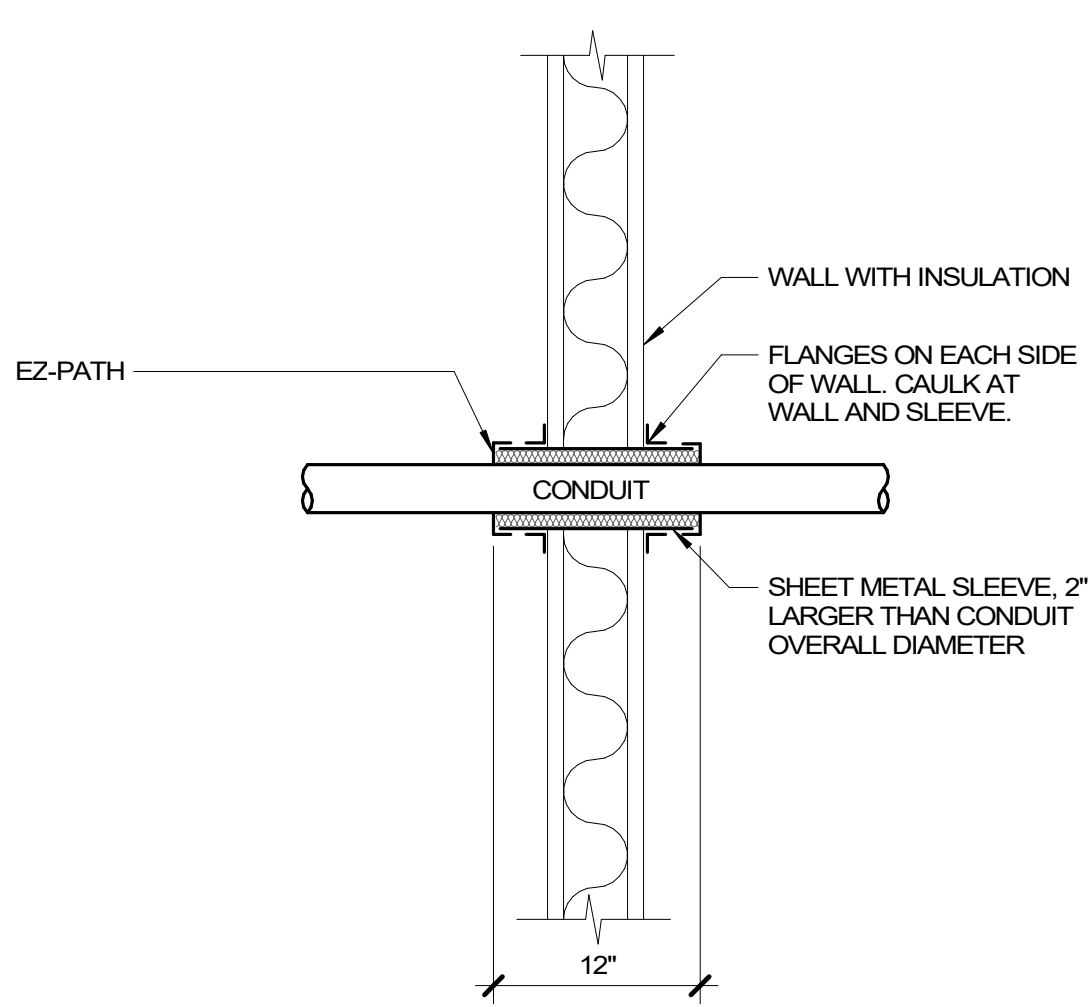
- NOTES:**
1. THE INTENT OF THE DETAIL IS TO ENSURE DEVICE ROUGH-INS ARE ALIGNED, SOLIDLY MOUNTED AND THE SURFACE OF THE TRIM IS EITHER FLUSH WITH THE WALL SURFACE OR WITHIN 1/8" OF THE WALL SURFACE. JUNCTION BOXES LARGER THAN 4" SQUARE SHALL BE MOUNTED IN A MANNER THAT IS SIMILAR TO THE SYSTEM NOTED ABOVE OR ACHIEVES THE SAME RESULTS.
 2. PLASTER RINGS DEPTH SHALL BE 1/8" DEEPER THAN THE GYP BOARD APPLIED TO THE WALL. PLASTER RING SHALL BE 3/4" FOR USE WITH 5/8" GYP BOARD.
 3. MOUNTING BRACKET FOR 2 1/2" OR 3 1/2" STUDS SHALL BE CADDY #423, OR B-LINE BB4-23. MOUNTING BRACKET FOR 4" OR 6" STUDS SHALL BE CADDY #446TC OR B-LINE BB4-4. FOR MULTIPLE BOXES BETWEEN STUDS, BRACKET SHALL BE CADDY #RBS16#RBS24 OR B-LINE BB6-# OR BBF# FLOOR MOUNT SUPPORT WITH BBFC.
 4. WHERE RECEPTACLE AND TECHNOLOGY DEVICES ARE SHOWN SERVING A COMMON COMPUTER OR EQUIPMENT, OR SHOWN IN SIMILAR LOCATIONS ON THE DRAWINGS THE DEVICES SHALL BE INSTALLED ON OPPOSITE SIDES OF A COMMON STUD OR IN ADJACENT OPENINGS WITH MOUNTING BRACKETS.

1 BACKBOX MOUNTING DETAIL
NO SCALE



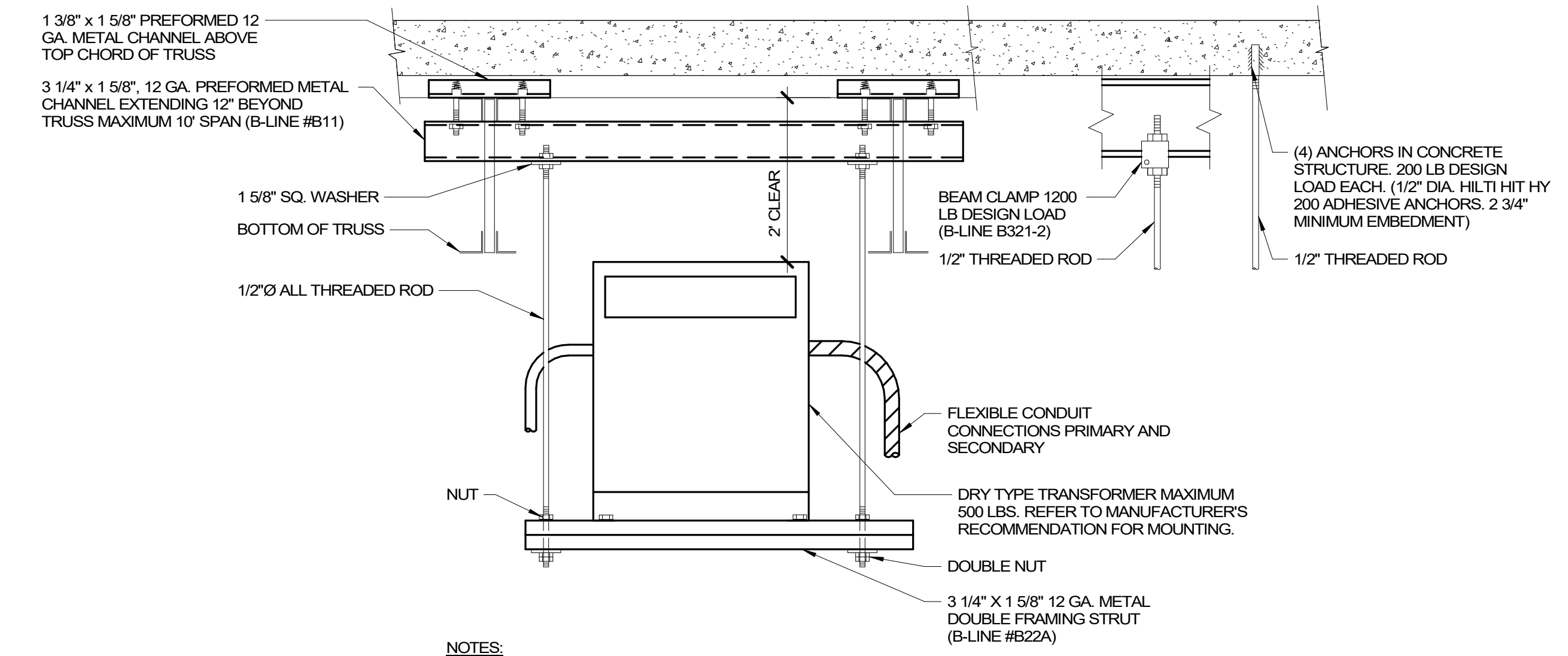
- NOTES:**
1. CONDUIT SHALL BE SUPPORTED WITHIN 24 INCHES ABOVE AND BELOW ROOF.
 2. VERIFY FINAL REQUIREMENTS WITH GENERAL CONTRACTOR (G.C.) AND ROOFING INSTALLER PRIOR TO INSTALLATION.

2 CONDUIT ROOF PENETRATION
NO SCALE



- NOTES:**
1. USE EZ-PATH FIRE-RATED PATHWAY FOR ALL FIRE WALL PENETRATIONS.

3 CONDUIT WALL PENETRATION
NO SCALE



- NOTES:**
1. (2) - HANGER ASSEMBLIES SHALL BE REQUIRED FOR EACH TRANSFORMER.

4 TRANSFORMER MOUNTING TRAPEZE
NO SCALE

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BID SET	03/24/2021
Revisions:	Date:

ARCHITECT/ENGINEER OF RECORD

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--	--

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Office of
Construction
and Facilities
Management

VA U.S. Department
of Veterans Affairs

Drawing Title ELECTRICAL DETAILS
Approved:

Phase BID SET
FULLY SPRINKLERED

Project Title RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS	Project Number 589A4-20-158
Location HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201	Building Number 14
Issue Date 03/24/2021	Checked MARHAR
Drawn MASRYA	Drawing Number E-300
	Dwg. # 81 of 94

PPB-WH-277VE

MOUNTING: SURFACE
ENCLOSURE: BOLT-ON
FED FROM: ROOM D022, MCC-G14-480VGR
LOCATION: VETERANS CANTEN SERVICE (VCS) STORAGE W01

SOLID NEUTRAL

MAIN: 225 A MLO
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 14,000

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OC PD AMPS	WIRE SIZE H N G	A	B	C	WIRE SIZE H N G	OC PD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y	
10	1	EXISTING TR-30 W01	70 A	3	5.91	2.03		12 12 12 3	20 A	MATERIAL LIFT RM W01A	2	Y	
3	--	--	--	--	6.48	2.03		--	--	--	4	--	
5	--	--	--	--			6.19	2.03	--	--	6	--	
7	7	TX-WH-120VC	70 A	3	5.32	6.41		12 12 12 3	60 A	WHSE-AHU-1, ROOF	8	Z	
9	--	--	--	--	3.06	6.41		--	--	--	10	--	
11	--	--	--	--			2.7	6.41	--	--	12	--	
13	13	WHSE P-2 CORRIDOR CBG1	20 A	3	1.27	2.03		12 12 12 3	20 A	WHSE-RF-1 RM W05	14	--	
15	--	--	--	--			1.27	2.03	--	--	16	--	
17	--	--	--	--			1.27	2.03	--	--	18	--	
19	19	WHSE P-3 CORRIDOR CBG1	20 A	3	1.27	0		12 12 12 3	20 A	FORKLIFT CHARGING RM W02	20	--	
21	--	--	--	--		1.27	0	--	--	--	22	--	
23	--	--	--	--			1.27	0	--	--	24	--	
25	25	UNIT HEATERS RMS W01, W02	20 A	3	1.27	5	0	--	--	1 20 A	SPARE	26	--
27	--	--	--	--		5	0	--	--	1 20 A	SPARE	28	--
29	--	--	--	--			5	0	--	1 20 A	SPARE	30	--
31	31	SPARE	20 A	1	0	0		--	--	1 20 A	SPARE	32	--
33	33	SPARE	20 A	1	0	0		--	--	1 20 A	SPARE	34	--
35	--	--	--	--			0	0	--	--	36	--	
37	--	--	--	--		0	0		--	--	38	--	
39	--	--	--	--		0	0		--	--	40	--	
41	--	--	--	--		0	0		--	--	42	--	
Total Load:					29.24 kVA	27.55 kVA	26.90 kVA						
Total Amps:					105.92	99.82	97.11						

LOAD CLASSIFICATION				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
HVAC				35.93 kVA	100.00%	35.93 kVA	
Power				35.46 kVA	100.00%	35.46 kVA	TOTAL CONNECTED LOAD: 83.69 kVA
Receptacles				12.3 kVA	90.65%	11.15 kVA	TOTAL ESTIMATED DEMAND LOAD: 81.04 kVA
							TOTAL CONNECTED AMPS: 100.66 A
							TOTAL ESTIMATED DEMAND AMPS: 97.5 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.
CIRCUIT KEY NOTES: '0' = REFER TO ONE-LINE FOR WIRE SIZE, 'Z' = 4# & 1#8 GND IN 1/2".

EXISTING PANEL: PPB-WH-120VE

MOUNTING: SURFACE
ENCLOSURE: BOLT-ON
FED FROM: EXIST. 30 KVA TRANSFORMER
LOCATION: RM W01

SOLID NEUTRAL

MAIN: 100 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4

NOTES: EXISTING GE A-SERIES II PANELBOARD. PANEL IS RENAMED FROM PPB-14-120VE TO PPB-WH-120VE. E.C. TO VERIFY ALL CIRCUITS AND DEMOLISH AND MAKE SPARES WHERE APPLICABLE. E.C. TO PROVIDE UPDATED, TYPED PANEL SCHEDULE. NO EMPTY SPACES SHALL BE LEFT IN THIS PANEL WITHOUT A 20A/1P BREAKER.

K E Y	CKT NO.	LOAD DESCRIPTION	OC PD AMPS	WIRE SIZE H N G	A	B	C	WIRE SIZE H N G	OC PD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y
1	1	BATTERY CHARGER (BLUE)	20 A	1				12 12 12 1	20 A	RECEPT COPYING MACHINE	2	--
3	3	RECEPT RM 101	20 A	1				12 12 12 1	20 A	RECEPT RM 102-3-4-5-9	4	--
5	5	RECEPT RM 106-7-8	20 A	1				12 12 12 1	20 A	RECEPT RM 101-3	6	--
7	7	EXH FANS 101	20 A	1				12 12 12 1	20 A	DOCK LITS LOAD	8	--
9	9	EXH FANS 104	20 A	1				12 12 12 1	20 A	WATER HEATER	10	--
11	11	CORRIDOR RECEPTS	20 A	1				12 12 12 1	20 A	SECURITY SYST.	12	--
13	13	UNIT = D.H.T RM 107	20 A	2				12 12 12 1	30 A	BATTERY CHARGER (BLUE)	14	--
15	15	DUCT + HEATER RM 104	20 A	2				12 12 12 1	20 A	BATTERY CHARGER (BLUE)	18	--
19	19	W-05 SPARE W. WALL	20 A	1				12 12 12 1	30 A	BATTERY CHARGER (BLUE)	20	--
21	21	W-05 RCPT W. WALL + NW	20 A	1				12 12 12 1	20 A	RCPTS PANDEMIC STORAGE W11	22	--
23	23	SCALE, SCALE DISPLAY RM W03C	20 A	1				12 12 12 1	20 A	RCPTS PANDEMIC STORAGE W11	24	--
25	25	RCPT LIFT EQUIPT W01A	20 A	1				12 12 12 1	20 A	RCPT BULK ITEM STOR. W03, W03A	26	--
27	27	RCPT OIT CLOSET W05B	20 A	1				12 12 12 1	20 A	FRIDGE STAFF LOUNGE W04A	28	--
29	29	PHARMACY FREEZER	20 A	1				12 12 12 1	20 A	MICROWAVE STAFF LOUNGE W04A	30	--
31	31	COVID FRZR	20 A	1				12 12 12 1	20 A	RCPTS STAFF LOUNGE W04A	32	--
33	33	COVID FRZR	20 A	1				12 12 12 1	20 A	RCPTS RM W01A, W08, W09	34	--
35	35	COVID FRZR	20 A	1				12 12 12 1	20 A	ICEWATER MACHINE RM W03	36	--
37	37	COVID FRZR	20 A	1				12 12 12 1	20 A	RCPT. INTRUSION DET. RM W01	38	--
39	39	RECEPTS DRUG STOR W03A	20 A	1				12 12 12 1	20 A	WHSE-EF-2 RM W01	40	--
41	41	SPD	30 A	3				12 12 12 1	20 A	WHSE-EF-1 ROOF	42	--
43	43	RECEPTS DRUG STOR W03A	20 A	1				12 12 12 1	20 A	RCPTS PANDEMIC STORAGE W11	44	--
45	45	RECEPTS DRUG STOR W03A	20 A	1				12 12 12 1	20 A	RCPTS PANDEMIC STORAGE W11	46	--
47	47	RECEPTS DRUG STOR W03A	20 A	1				12 12 12 1	20 A	RCPTS ROOF	48	--
49	49	RCPTS STORAGE W03, W03B, W03C	20 A	1				12 12 12 1	20 A	WHSE-P-4 CORRIDOR CBG1	50	--
51	51	SYSTEM PANEL RM W04A	20 A	1				12 12 12 1	20 A	WHSE-SSHX-1, GOOX	52	--
53	53	IVAV CONTROL POWER, W07	20 A	1				12 12 12 1	20 A	EXTERIOR DOOR W02B, W03B	54	--
55	55	UPS WAREHOUSE OIT CLOSET	20 A	2				12 12 12 1	20 A	DOOR W05B (OIT CLOSET)	56	--
57	57	WHSE-AHU-1 CONTROLS	20 A	1				12 12 12 1	20 A	DOOR W06	58	--
59	59	WHSE-AHU-1 CONTROLS	20 A	1				12 12 12 1	20 A	DOOR W01	60	--
Total Load:					5.91 kVA	6.48 kVA	6.19 kVA					
Total Amps:					49.25	54.36	51.94					

LOAD CLASSIFICATION				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
HVAC				3 kVA	100.00%	3 kVA	
Power				5.8 kVA	100.00%	5.8 kVA	TOTAL CONNECTED LOAD: 18.58 kVA
Receptacles				9.78 kVA	100.00%	9.78 kVA	TOTAL ESTIMATED DEMAND... 17.08 kVA
							TOTAL CONNECTED AMPS: 51.57 A
							TOTAL ESTIMATED DEMAND... 47.4 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.
CIRCUIT KEY NOTES:

PPB-WH-120VE2

MOUNTING: SURFACE
ENCLOSURE: BOLT-ON
FED FROM: TX-WH-120VC
LOCATION: DRUG CACHE-STORAGE W03A

SOLID NEUTRAL

MAIN: 100 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10,000

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OC PD AMPS	WIRE SIZE H N G	A	B	C	WIRE SIZE H N G	OC PD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y
1	1	FREEZER RM W03A	20 A	1	1.44	0		12 12 12 1	20 A	SPARE	2	--
3	3	FREEZER RM W03A	20 A	1	1.44	0		12 12 12 1	20 A	SPARE	4	--
5	5	FREEZER RM W03A	20 A	1	1.44	0		12 12 12 1	20 A	SPARE	6	--
7	7	FREEZER RM W03A	20 A	1	1.44	0		12 12 12 1	20 A	SPARE	8	--
9	9	RCPTS RM W03A	20 A	1	0.9	0		12 12 12 1	20 A	SPARE	10	--
11	11	RCPTS RM W03A	20 A	1	0.9	0		12 12 12 1	20 A	SPARE	12	--
13	13	REFRIG. RM W03A, W03A1	20 A	1	1.44	0		12 12 12 1	20 A	SPARE	14	--
15	15	SECURITY RCPTS RM W03A	20 A	1	0.72	0		12 12 12 1	20 A	SPARE	16	--
17	17	ACCESS CTRL. INT DET RM W03A	20 A	1	0.36	0		12 12 12 1	20 A	SPARE	18	--
19	19	DOOR W03A, W03A1	20 A	1	1	0		12 12 12 1	20 A	SPARE	20	--
21	21	SPARE	--	--				--	--	SPARE	22	--
23	23	SPARE	--	--				--	--	SPARE	24	--
25	25	SPARE	--	--				--	--	SPARE	26	--
27	27	SPARE	--	--				--	--	SPARE	28	--
29	29	SPARE	--	--				--	--	SPARE	30	--
31	31	SPARE	--	--				--	--	SPARE	32	--
33	33	SPARE	--	--				--	--	SPARE	34	--
35	35	SPARE	--	--				--	--	SPARE	36	--
37	37	SPARE	--	--				--	--	SPARE	38	--
39	39	SPARE	--	--				--	--	SPARE	40	--
41	41	SPARE	--	--				--	--	SPARE	42	--
Total Load:					5.32 kVA	3.06 kVA	2.70 kVA					
Total Amps:					44.79	25.96	22.50					

LOAD CLASSIFICATION				CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*
Power				8.56 kVA	100.00%	8.56 kVA	TOTAL CONNECTED LOAD: 11.08 kVA
Receptacles				2.52 kVA	100.00%	2.52 kVA	TOTAL ESTIMATED DEMAND LOAD: 11.08 kVA
							TOTAL CONNECTED AMPS: 30.76 A
							TOTAL ESTIMATED DEMAND AMPS: 30.8 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.
CIRCUIT KEY NOTES:

EXISTING PANEL: LPB-WH-277VE

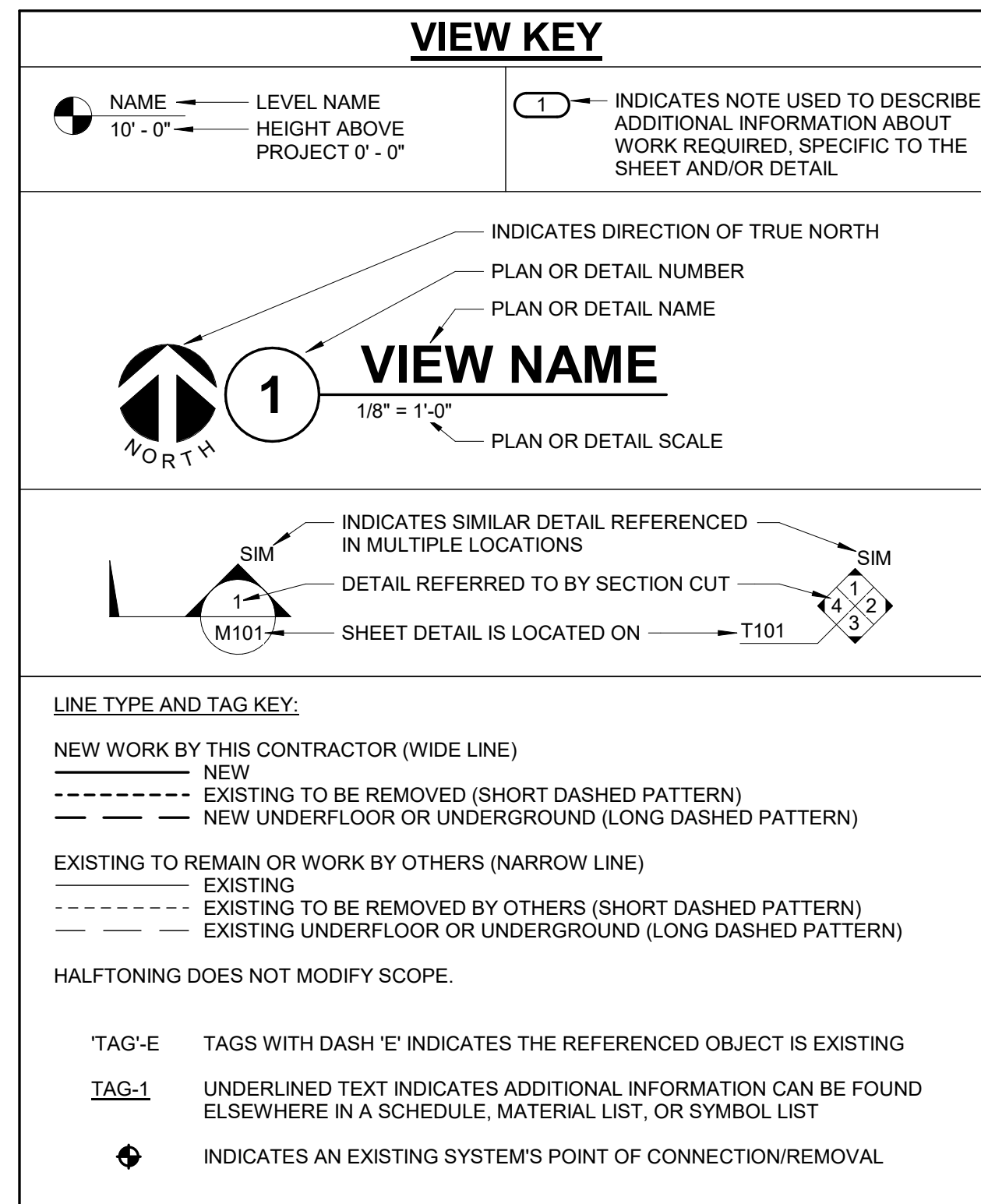
MOUNTING: SURFACE
ENCLOSURE: BOLT-ON
FED FROM: LPB-H12-277VE
LOCATION: RM W01

SOLID NEUTRAL

MAIN: 100 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4

NOTES: EXISTING GE A-SERIES II PANELBOARD. PANEL IS RENAMED FROM PPB-14-120VE TO PPB-WH-120VE. E.C. TO VERIFY ALL CIRCUITS AND DEMOLISH AND MAKE SPARES WHERE APPLICABLE. E.C. TO PROVIDE UPDATED, TYPED PANEL SCHEDULE.

K E Y	CKT NO.	LOAD DESCRIPTION	OC PD AMPS	WIRE SIZE H N G	A	B	C	WIRE SIZE H N G	OC PD AMPS	LOAD DESCRIPTION	CKT NO.	K E Y
1	1	SPARE	50 A	3				12 12 12 3	30 A	SPARE	2	--
3	3	SPARE	--	--				--	--	SPARE	4	--
5	5	SPARE	--	--				--	--	SPARE	6	--
7	7	LTS - 101 MEN STOR.	20 A	1				12 12 12 1	20 A	LTS X-RAY 109 - SUB STOR 104	8	--
9	9	LTS - OUTSIDE DOOR	20 A	1				12 12 12 1	20 A	LTS DRUG 102 + 103	10	--
11	11	LTS - CORR 110	20 A	1				12 12 12 1	20 A	LTS REC. 111 + FORM 112	12	--
13	13	LTS - CORR 113	20 A	1				12 12 12 1	20 A	SPARE	14	--
15	15	SPARE	30 A	3				12 12 12 1	30 A	BATT CH-AR	16	--
17	17	SPARE	--	--				--	--	SPARE	18	--
19	19	SPARE	--	--				--	--	SPARE	20	--
21	21	LIGHTING - PANDEMIC STORA. W11	20 A	1				12 12 12 1	20 A	LIGHTING - RM W04, W05A, W06	22	--
23	23	LIGHTING - STAIR, RM W03A1	20 A	1								



CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.T.C.	AUTOMATIC TEMPERATURE CONTROL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

TECHNOLOGY ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
C	CONDUIT
J-BOX	JUNCTION BOX
SIM	SIMILAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
TR-#	TELECOMMUNICATIONS ROOM

TECHNOLOGY SYMBOL LIST

SYMBOL:	EQUIPMENT LIST ABBREV:	DESCRIPTION:	NOTE:
WAP	SC-IO-C	CEILING INFORMATION OUTLET, DATA COMMUNICATION ONLY, WIRELESS ACCESS POINT	1.
#	SC-IO-W	WALL INFORMATION OUTLET, COMBINATION TELEPHONE/DATA COMMUNICATION	1.
#	SC-IO-W	WALL INFORMATION OUTLET, WALL TELEPHONE COMMUNICATION	1.
#	SC-RIO-W	WALL INFORMATION OUTLET, ROUGH-IN ONLY	1.
#	N/A	CARD ACCESS READER, LETTER INDICATES AS FOLLOWS: M = MOUNT C - CEILING D - DESK F - FLUSH H - HIDDEN M - MULLION P - PEDESTAL R - RACK S - SURFACE W - WALL	4.
#	AC-GR1-W	CARD ACCESS READER WITH KEYPAD, LETTER INDICATES AS FOLLOWS: M = MOUNT C - CEILING D - DESK F - FLUSH H - HIDDEN M - MULLION P - PEDESTAL R - RACK S - SURFACE W - WALL	2.
#	AC-EDH	ELECTRONIC LOCK; LETTER INDICATES AS FOLLOWS: M = MOUNT C - CEILING D - DESK F - FLUSH H - HIDDEN M - MULLION P - PEDESTAL R - RACK S - SURFACE W - WALL	2.
#	AC-PB	DOOR CONTACT; LETTER INDICATES AS FOLLOWS: M = MOUNT C - CEILING D - DESK F - FLUSH H - HIDDEN M - MULLION P - PEDESTAL R - RACK S - SURFACE W - WALL	2.
#	AC-DC	DOOR CONTACT; LETTER INDICATES AS FOLLOWS: M = MOUNT S - SURFACE R - RECESSED	4.
#	AC-MD	MOTION DETECTOR; LETTER INDICATES AS FOLLOWS: M = MOUNT C - CEILING D - DESK F - FLUSH H - HIDDEN M - MULLION P - PEDESTAL R - RACK S - SURFACE W - WALL	2.
#		T = TECHNOLOGY/TYPE D - DEADBOLT H - HYBRID L - LATCH SET M - MAGNETIC S - STRIKE PUSH BUTTON, LETTER INDICATES AS FOLLOWS: M = MOUNT C - CEILING D - DESK F - FLUSH H - HIDDEN M - MULLION P - PEDESTAL R - RACK S - SURFACE W - WALL	
#		T = TECHNOLOGY/TYPE B - BELL PUSH D - DURESS P - PANIC R - DOOR RELEASE X - REQUEST-FOR-EXIT	
#		T = TECHNOLOGY/TYPE DUAL TECHNOLOGY IR-INFRARED M - MICROWAVE U - ULTRASONIC X - REQUEST-FOR-EXIT	

TECHNOLOGY SYMBOL LIST

SYMBOL:	EQUIPMENT LIST ABBREV:	DESCRIPTION:	NOTE:
CCTV	N/A	VIDEO SURVEILLANCE CAMERA WITH LENS, WALL MOUNT OR CEILING MOUNT	3.
PA-S-C		FACILITY PAGING SPEAKER (CEILING)	
S	N/A	FACILITY PAGING SPEAKER (WALL) EXISTING	4.
H	N/A	FACILITY PAGING HORN (WALL) EXISTING	4.
VC	N/A	FACILITY PAGING VOLUME CONTROL (WALL) EXISTING	4.
AA	ID-AA-W	INTRUSION DETECTION AUDIBLE ALARM (WALL)	2, 4.
IKP	ID-IKP-W	INTRUSION DETECTION SECURITY KEYPAD (WALL)	2, 4.
WIDTH X HEIGHT		CABLE TRAY, CHANNEL TRAY, BASKET TRAY	
WIDTH X HEIGHT		LADDER RACK	
DIAMETER		CONDUIT	
→		CONDUIT DOWN	
○		CONDUIT UP OR UPDOWN	
←		CONDUIT SLEEVE	
←		CONTINUATION	

GENERAL NOTES:

- ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
- ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
- ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.
- REFER TO RISERS ON SHEET(S) T-400.

TECHNOLOGY SYMBOL NOTES:

- "CIP" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION. REFER TO HORIZONTAL CABLE SCHEDULE ON SHEET T-500 FOR ADDITIONAL INFORMATION.
- SYMBOL SUBSCRIPT INDICATES DEVICE TYPE. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON T-500 FOR ADDITIONAL INFORMATION.
- REFER TO CLOSED CIRCUIT (CCTV) INDIVIDUAL CAMERA REQUIREMENTS SCHEDULE ON T-500 AND CAMERA TYPE SCHEDULE ON T-500 FOR ADDITIONAL INFORMATION. SYMBOL SUBSCRIPT INDICATES FLOOR NUMBER-CAMERA NUMBER. A CAMERA HEIGHT IDENTIFIES THE HEIGHT FROM THE FLOOR TO THE CENTER OF THE CAMERA LENS. NO HEIGHT REFERS TO MOUNTING THE CAMERA ON THE CEILING. REFER TO THE INDIVIDUAL CAMERA SCHEDULE AND THE INDIVIDUAL CAMERA TYPE SCHEDULE FOR ADDITIONAL INFORMATION.
- REFER TO LINE TYPE KEY FOR NEW, EXISTING TO REMAIN, OR DEMO LINE TYPE.

CABLE COLOR DESIGNATIONS

RED	FIRE ALARM SYSTEM
BLUE	DATA
WHITE	VOICE
NEON GREEN	NURSE CALL SYSTEM
GREEN	(OIT) (WI FI)
PINK	GUEST WI FI (BIOMED)
ORANGE	TELEMETRY
BROWN	GET WELL NETWORK (TV)
PURPLE	SECURITY

SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3, 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2, 4.
TELECOMMUNICATION SYSTEMS	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLE, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
LADDER RACK	T-SERIES	T.C.	T.C.	5.
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6.
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUNDING SYSTEM	T-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2, 4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

- LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
- BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
- INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
- ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
- UNLESS TRADE RULES DICTATE OTHERWISE.
- FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.

TECHNOLOGY GENERAL NOTES:

- ###-### INDICATES GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION"
- REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.

TECHNOLOGY MOUNTING SUBSCRIPT KEY:

A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH

H MOUNT ORIENTED HORIZONTALLY

L MOUNT IN CASEWORK

M MOUNT IN MODULAR FURNITURE

S MOUNT IN SURFACE RACEWAY

A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., AH.

TECHNOLOGY INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
- BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUDED OR SEALED INTO OPENINGS.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPPS. REFER TO DIVISION 7 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
- REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF TELECOMMUNICATIONS WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.

TECHNOLOGY SHEET INDEX

T-000	TECHNOLOGY COVERSHEET
TD101	FIRST FLOOR PLAN - TECHNOLOGY DEMOLITION
T-101	FIRST FLOOR PLAN - TECHNOLOGY
T-102	MEZZANINE FLOOR PLAN - TECHNOLOGY
T-300	TECHNOLOGY DETAILS
T-400	TECHNOLOGY ROOM ENLARGEMENTS AND DIAGRAMS
T-500	TECHNOLOGY SCHEDULES
GRAND TOTAL 7	

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BID SET	03/24/2021
Revisions:	Date:

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incandescence life safety
a fire protection engineering firm

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03/24/2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: **TECHNOLOGY COVERSHEET**

Approved:

Phase: **BID SET**

FULLY SPRINKLERED

Project Title: **RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS**

Location: **HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201**

Issue Date: 03/24/2021

Checked: NICWNU

Drawn: SCOTHO

Project Number: **589A4-20-158**

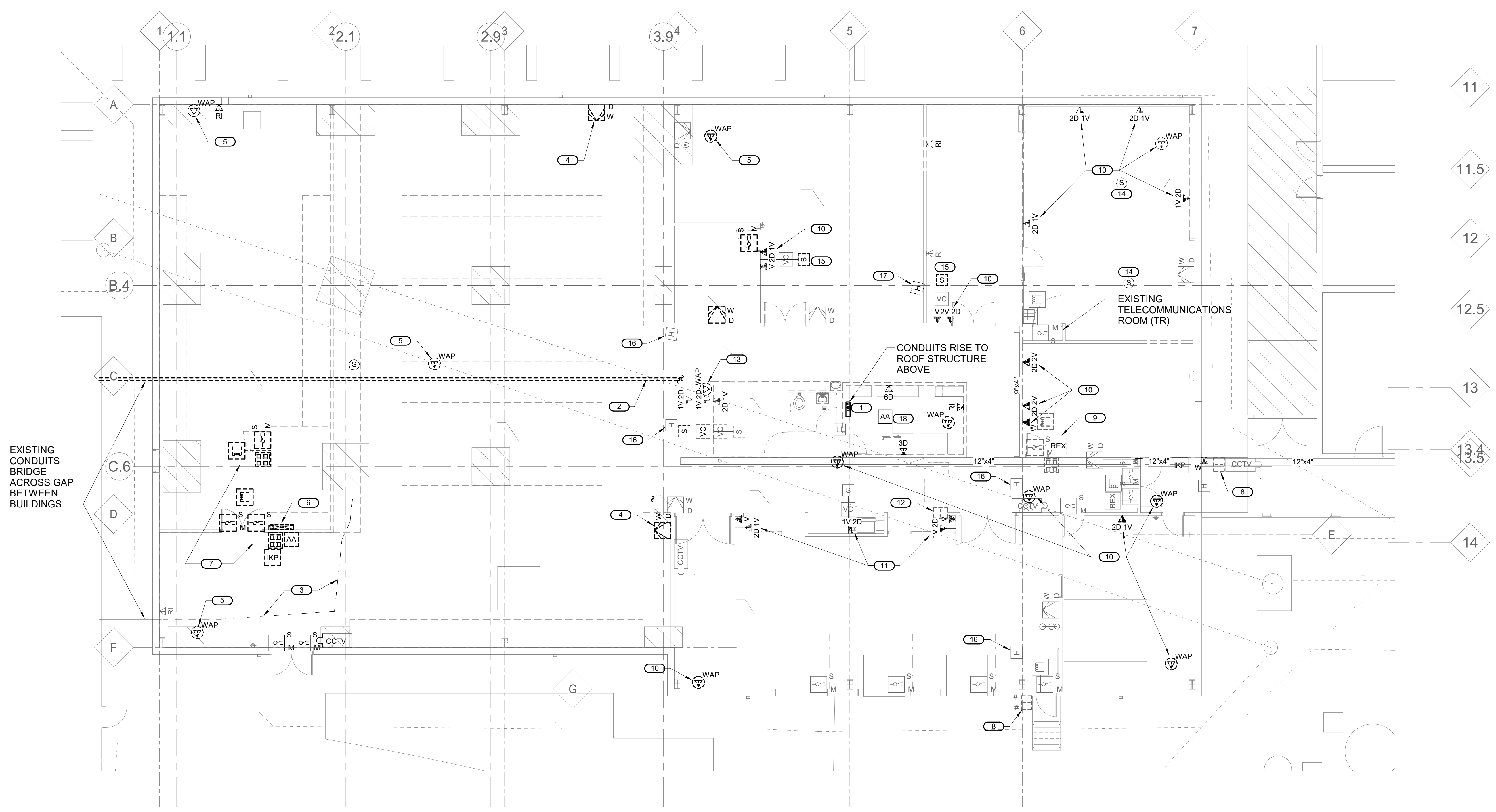
Building Number: **14**

Drawing Number: **T-000**

Dwg. # 84 of 94

- SHEET NOTES:**
- REFER TO SHEET T-000 FOR TECHNOLOGY SYMBOLS AND NOTES.
 - REFER TO T-300 SERIES SHEETS FOR TECHNOLOGY DETAILS.
 - REFER TO T-400 SERIES SHEETS FOR TECHNOLOGY DIAGRAMS.
 - REFER TO T-500 SERIES SHEETS FOR TECHNOLOGY SCHEDULES.
 - UNLESS OTHERWISE NOTED, ALL EXISTING TECHNOLOGY DEVICES AND SYSTEMS, WHETHER SHOWN OR NOT SHOWN, ARE EXISTING TO REMAIN IN SERVICE. CONTRACTOR SHALL NOT DISCONNECT OR OTHERWISE TAKE OUT OF SERVICE ANY DEVICE OR SYSTEM WITHOUT CONSENT AND SCHEDULING BY THE COR. COORDINATE WITH ARCHITECTURAL PHASING PLANS FOR SEQUENCE OF CONSTRUCTION.
 - ALL TECHNOLOGY CABLING FOR DEVICES AND SYSTEMS ON THIS SHEET TERMINATES IN EXISTING TR UNLESS NOTED OTHERWISE.

- KEYNOTES: (#)**
- RELOCATE INTRUSION ALARM PANEL TO NEW LOCATION AS INDICATED ON SHEET T-101. DISMANTLE CONDUITS THAT RISE TO ABOVE CONCRETE CEILING STRUCTURE AND PULL BACK WIRING TO A POINT WHERE JUNCTION BOXES CAN BE SET CLOSE TO OVERHEAD STRUCTURE. EXTEND ALL WIRING TO NEW PANEL LOCATION. REFER TO KEYNOTE #1 ON SHEET T-101.
 - REMOVE LOW VOLTAGE CONDUITS AND PULL WIRING SERVING THE CHILLER PLANT BACK TO A POINT WHERE IT CAN BE RE-ROUTED THROUGH NEW PATHWAY.
 - DISCONNECT LOW VOLTAGE CABLING IN CHILLER PLANT AND REMOVE CABLING BACK TO A POINT TO CLEAR NEW STRUCTURAL WORK. CABLING SHALL BE REPATHED TO REACH EXISTING END DEVICES. ROUTE THROUGH NEW CONDUIT AS SHOWN ON SHEET T-101. REFER TO KEYNOTE #3. EXTEND OR REPLACE CABLING AS REQUIRED.
 - DISCONNECT AND REMOVE MOTION DEVICE. SAVE FOR REMOUNTING AFTER BUILDING MODIFICATIONS ARE COMPLETE. REFER TO KEYNOTE #4 ON SHEET T-101.
 - DISCONNECT AND REMOVE WIRELESS ACCESS POINT. SAVE FOR REMOUNTING AFTER BUILDING MODIFICATIONS ARE COMPLETE. REFER TO KEYNOTE #5 ON SHEET T-101.
 - REMOVE SECURITY AND ACCESS CONTROL PANELS IN PREPARATION OF VAULT WALL AND DOOR DEMOLITION. SAVE FOR REINSTALLATION IN SAME RELATIVE LOCATION. PULL WIRING BACK TO A POINT WHERE IT WILL BE SAFE FROM DAMAGE DURING THE CONSTRUCTION OF THE MEZZANINE LEVEL AND SEAL RACEWAYS TO PREVENT ENTRY OF WATER.
 - REMOVE SECURITY ACCESS CONTROL DEVICES AT DOOR TO DRUG ROOM AND CEILING. SAVE FOR REINSTALLATION IN SAME RELATIVE LOCATION. PULL WIRING BACK TO A POINT WHERE IT WILL BE SAFE FROM DAMAGE DURING THE CONSTRUCTION OF THE MEZZANINE LEVEL AND SEAL RACEWAYS TO PREVENT ENTRY OF WATER.
 - REPLACE CARD READER WITH READER AND KEYPAD COMBINATION UNIT. DOOR CANNOT BE LEFT UNSECURE AT THE END OF THE WORK DAY. SCHEDULE ACCORDINGLY.
 - REMOVE SECURITY ACCESS CONTROL DEVICES AT THIS DOOR INCLUDING ALL WIRING BACK TO SOURCE. HARDWARE SHALL BE REUSED ON DOOR INTO VETERANS CANTEN SERVICE STORAGE ROOM W01. REFER TO KEYNOTE #11 ON SHEET T-101.
 - REMOVE RJ-45 JACKS AND CATEGORY UTP CABLING BACK TO SOURCE TELECOM ROOM (TR). REPLACE JACKS AND CABLING WITH CAT-6A RATED MATERIALS. TERMINATE CABLING ON CAT-6A PATCH PANEL ADDED TO EXISTING RACK IN TR. REFER TO KEYNOTE #9 ON SHEET T-101.
 - AT THESE WORK STATIONS THE TIMING OF WORK MUST BE COORDINATED WITH THE CONTRACT PHASING SCHEDULE. THESE WORKSTATIONS CANNOT BE OUT OF SERVICE FOR EXTENDED PERIODS.
 - REMOVE THIS CARD READER AND REPLACE WITH A DOOR RELEASE PUSHBUTTON. REFER TO KEYNOTE #12 ON SHEET T-101.
 - WAP SHALL BE RELOCATED TO NEW WALL OF BREAK ROOM. REFER TO SHEET T-101 FOR LOCATION.
 - TEMPORARILY REMOVE CEILING SPEAKERS WHILE CEILING IS DEMOLISHED FOR HVAC CHANGES. REMOUNT SPEAKERS INTO CEILING AFTER CEILING IS REPLACED.
 - RELOCATE WALL MOUNTED SPEAKER TO BE BELOW NEW LAY-IN CEILING. REVISE SURFACE RACEWAY AND REMOUNT TO WALL AFTER NEW CEILING WORK IS COMPLETE.
 - EXISTING PA HORN SPEAKER TO REMAIN. ENSURE THAT THIS CIRCUIT IS KEPT ACTIVE DURING ALL PHASES OF THE RENOVATION. REMOVE HORN TYPE PA SPEAKER PRIOR TO INSTALLATION OF NEW LAY-IN CEILING. EXTEND WIRING TO NEW CEILING MOUNT SPEAKERS. REFER TO KEYNOTE #17 ON SHEET T-101.
 - EXISTING ALARM ANNUNCIATOR MOUNTED TO DUCTWORK ABOVE THE BREAK ROOM. MOVE HORN TYPE ANNUNCIATOR TO OVERHEAD STRUCTURE AND EXTEND WIRING TO RELOCATED ALARM PANEL LOCATION. REFER TO KEYNOTE #1 ABOVE.



1 FIRST FLOOR PLAN - TECHNOLOGY DEMOLITION
1/8" = 1'-0"

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BID SET	03/24/2021
Revisions:	Date:

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Professional Engineer
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FIRST FLOOR PLAN - TECHNOLOGY DEMOLITION

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Project Number
589A4-20-158

Building Number
14

Drawing Number
TD101
Dwg. # 85 of 94

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
03/24/2021

Checked
NICWNU

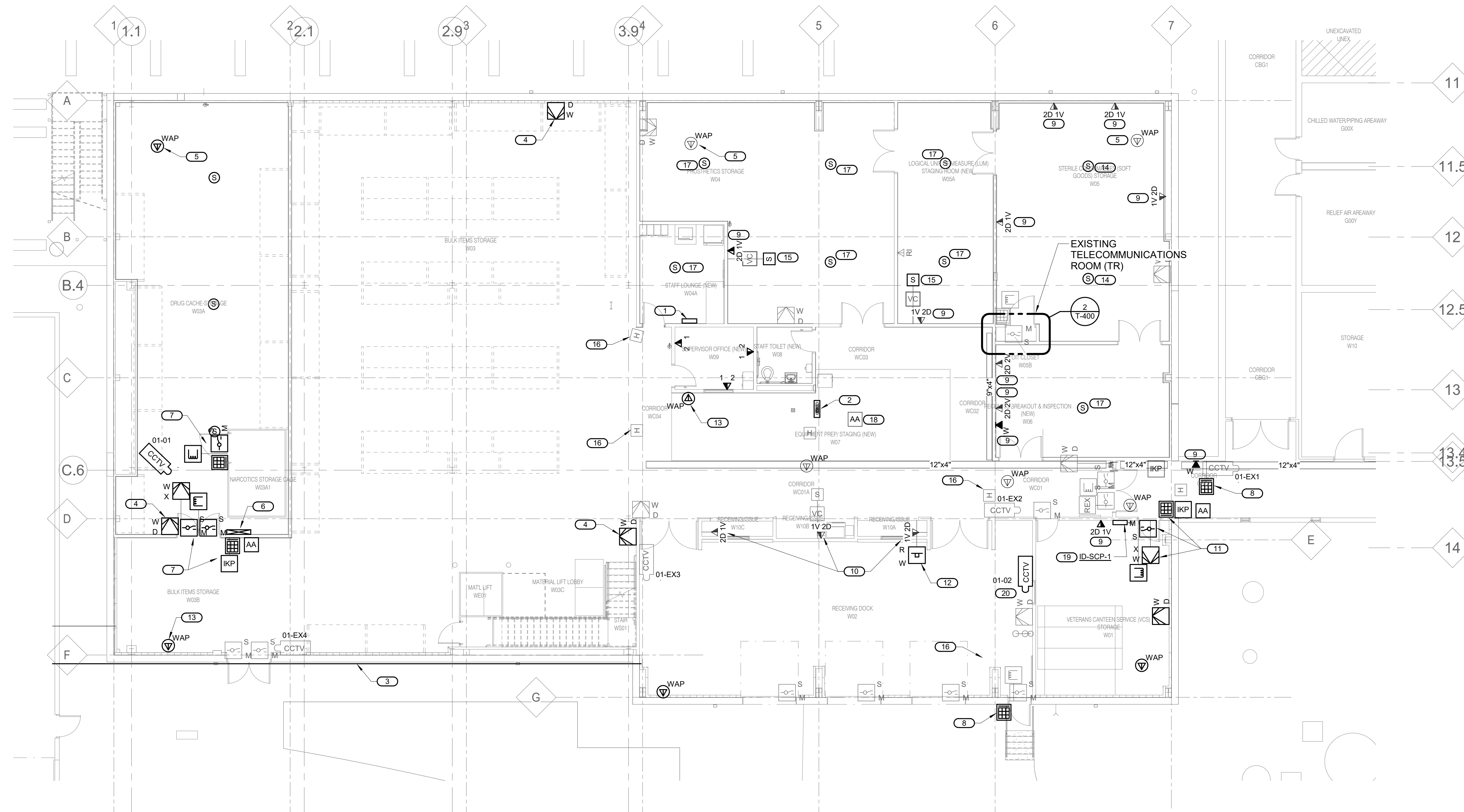
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SHEET NOTES:

- REFER TO SHEET T-000 FOR TECHNOLOGY SYMBOLS AND NOTES.
- REFER TO T-300 SERIES SHEETS FOR TECHNOLOGY DETAILS.
- REFER TO T-400 SERIES SHEETS FOR TECHNOLOGY DIAGRAMS.
- REFER TO T-500 SERIES SHEETS FOR TECHNOLOGY SCHEDULES.
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- ALL TECHNOLOGY CABLING FOR DEVICES AND SYSTEMS ON THIS SHEET SHALL TERMINATE IN EXISTING TR UNLESS NOTED OTHERWISE. ALL NETWORK CABLING MUST BE REPLACED WITH NEW CAT-6A UTP CABLE. PROVIDE NEW TERMINATIONS ON NEW CAT-6A PATCH PANELS IN TR. MOUNT NEW PATCH PANELS IN AVAILABLE SPACE OF EXISTING 2-POST RACK.

KEYNOTES:

- RELOCATE SECURITY ALARM PANEL TO LOCATION SHOWN. RECONFIGURE CONDUITS THAT WERE CONNECTED AT FORMER LOCATION. EXTEND AND RECONNECT ALL WIRING SERVING EXISTING SECURITY DEVICES LOCATED THROUGHOUT THE WAREHOUSE. PROVIDE JUNCTION BOXES AS REQUIRED.
- FORMER LOCATION OF SECURITY INTRUSION ALARM PANEL. REFER TO KEYNOTE #1 ON SHEET TD-101. PROVIDE NEW JUNCTION BOX MOUNTED TO EXISTING CONDUITS. J-BOX SHALL BE MOUNTED HIGH AS POSSIBLE BUT NOT LESS THAN 12'-0" AFF. PROVIDE 1-1/2" EMT CONDUIT FOR NEW ROUTING OF LOW VOLTAGE CABLING THAT SERVES CHILLER PLANT. ALL ETHERNET UTP CABLING SHALL BE NEW PULLED FROM EXISTING TR. RECONNECT ALL EXISTING DEVICES IN CHILLER PLANT. PAINT CONDUIT WHITE WITH APPROVED PAINT TO MATCH EXISTING BUILDING COLOR.
- REMOUNT EXISTING MOTION DEVICE IN SAME RELATIVE LOCATION AFTER NEW STRUCTURE IS COMPLETE. RECONNECT ALL WIRING AS PREVIOUSLY INSTALLED.
- REMOUNT AND RECONNECT WIRELESS ACCESS POINT TO NEW LAY-IN CEILING. REUSE EXISTING BISQUIT STYLE JACK HOUSING AND COIL 15' OF NEW CAT-6A UTP NETWORK CABLING FOR LOCATION ADJUSTMENTS. TIE TO OVERHEAD STRUCTURE WITH VELCRO STRAPS.
- REMOUNT AND RECONNECT SECURITY ALARM AND ACCESS CONTROL PANELS. PULL NEW CAT 6A NETWORK CABLING AS APPLICABLE. RE-PULL AND RECONNECT EXISTING WIRING SERVING DOOR CONTROL AND MONITORING DEVICES. ROUTE ALL CABLING THROUGH EXISTING CONDUITS. PROVIDE NEW J-HOOK PATHWAY ACROSS BOTTOM OF NEW MEZZANINE LEVEL FLOOR STRUCTURE.
- REMOUNT AND RECONNECT ALL SECURITY DEVICES IN SAME RELATIVE LOCATION AS PREVIOUSLY INSTALLED.
- REPLACE EXISTING CARD READER WITH NEW READER WITH KEYPAD. RECONNECT ALL WIRING AS NECESSARY. COORDINATE WITH THE VA SECURITY DIRECTOR FOR PROGRAMMING AND ACCESS PREFERENCES.
- EXISTING INFORMATION OUTLET LOCATION SHALL HAVE NEW CAT-6A CABLING AND CAT-6A JACKS INSTALLED. FACEPLATE MAY BE REUSED IF NOT DAMAGED. TERMINATE CABLING ON NEW CAT-6A PATCH PANEL IN EXISTING RACK. REFER TO DETAIL 3/T-400.
- AT THESE WORK STATIONS THE TIMING OF WORK MUST BE COORDINATED WITH THE CONTRACT PHASING SCHEDULE. THESE WORKSTATIONS CANNOT BE OUT OF SERVICE FOR EXTENDED PERIODS.
- REINSTALL CARD READER, REX MOTION DETECTOR AND SURFACE MOUNT DOOR CONTACTS. REMOVED FROM DOOR TO ROOM W06. AT THIS LOCATION. PULL NEW CABLING TO EXISTING DOOR CONTROLLER AND MODIFY SYSTEM PROGRAMMING AS REQUIRED. CONNECT NEW ELECTRIC LOCK AND SURFACE MOUNTED DOOR CONTACTS. COORDINATE WITH ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS.
- PROVIDE A DOOR RELEASE PUSHBUTTON TO OPEN THE MAIN WAREHOUSE DOOR. MOUNT BUTTON IN AN INCONSPICUOUS LOCATION AS DIRECTED BY COR. BUTTON SHALL BE +46" AFF. THIS BUTTON REPLACES A CARD READER REMOVED IN DEMOLITION. REFER TO KEYNOTE #12 ON SHEET TD101.
- REMOUNT WAP TO WALL APPROXIMATELY 10'-0" AFF. PROVIDE 90 DEGREE WALL BRACKET TO MOUNT WAP IN HORIZONTAL ORIENTATION. BRACKET SHALL BE OBERON #1011-00-WH OR EQUIV. EQUAL.
- REMOUNT EXISTING CEILING SPEAKER AFTER MECHANICAL WORK IS COMPLETE AND CEILING IS RESTORED. REFER TO KEYNOTE #14 ON SHEET TD101.
- REMOUNT WALL SPEAKER BELOW NEW LAY-IN CEILING HEIGHT. RECONFIGURE SURFACE RACEWAY AND RECONNECT AS PREVIOUSLY INSTALLED.
- EXISTING PA HORN SPEAKER TO REMAIN. EXTEND THIS CIRCUIT TO NEW CEILING MOUNTED SPEAKERS IN STORE ROOMS RECEIVING NEW LAY-IN CEILINGS. REFERENCE KEYNOTE #17 BELOW.
- PROVIDE NEW FLUSH MOUNT SPEAKER MOUNTED IN NEW LAY-IN CEILING. COORDINATE WITH NEW INSTALLATION AND PHASING. CONNECT TO CIRCUIT SERVING PA SYSTEM SPEAKERS IN ADJACENT SPACES.
- REMOUNT HORN TYPE ALARM ANNUNCIATOR TO OVERHEAD STRUCTURE. REFER TO KEYNOTE #18 ON SHEET TD101. EXTEND WIRING TO RELOCATED ALARM PANEL. REFERENCE KEYNOTE #1.
- MOUNT INTRUSION DETECTION SYSTEM CONTROL PANEL HIGH ON WALL AT +84" TO BOTTOM OF PANEL. CONNECT KEYPAD STATION AND ANNUNCIATION DEVICE IN CORRIDOR. CONNECT MOTION DEVICE IN THIS ROOM.
- MOUNT CAMERA ON WALL AT APPROX. 9'-0" AFF. PROVIDE 4" OCTAGONAL J-BOX. PROVIDE 3/4" EMT CONDUIT WITH BUSHING STUBBED UP TO STRUCTURE. ROUTE UTP CABLING TO TR VIA J-HOOKS AND CABLE TRAYS.



1 FIRST FLOOR PLAN - TECHNOLOGY
1/8" = 1'-0"

ARCHITECT/ENGINEER OF RECORD

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Professional Engineer
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03/24/2021

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: **FIRST FLOOR PLAN - TECHNOLOGY**
Approved: _____

Phase: **BID SET**
FULLY SPRINKLERED

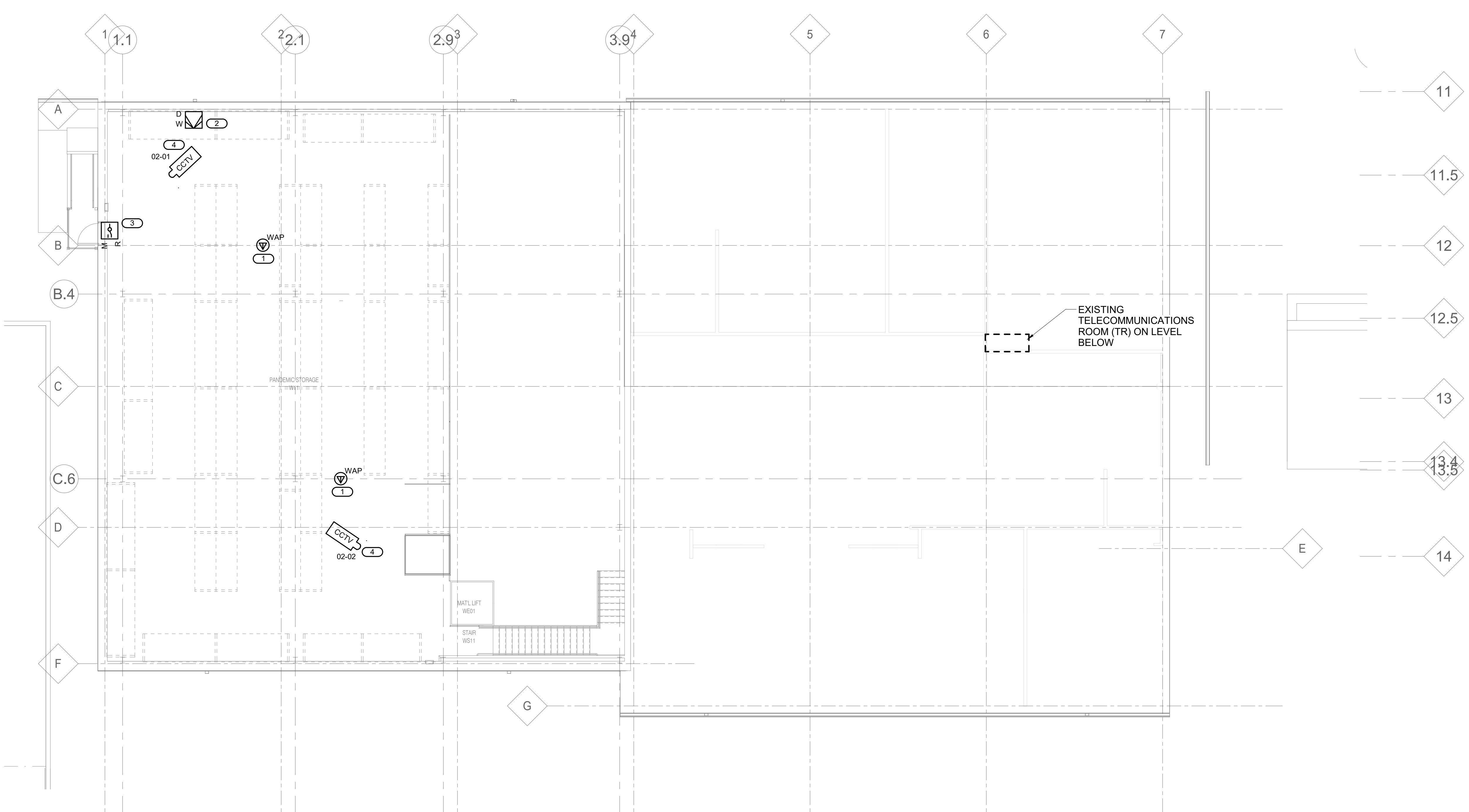
Project Title: **RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS**
Location: **HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201**

Project Number: **589A4-20-158**
Building Number: **14**
Drawing Number: **T-101**
Dwg. # 86 of 94

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- SHEET NOTES:**
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 - ALL TECHNOLOGY CABLING FOR DEVICES AND SYSTEMS ON THIS SHEET SHALL TERMINATE IN EXISTING TR UNLESS NOTED OTHERWISE. ANY NETWORK CABLING THAT MUST BE REPLACED OR PROVIDED NEW SHALL BE CAT-6 UTP RISER RATED CABLE. PROVIDE NEW TERMINATIONS ON EXISTING PATCH PANELS IN TR TO MATCH ALL EXISTING MATERIALS. PROVIDE NEW PATCH PANEL IF EXISTING HAVE INSUFFICIENT SPARE PORTS.

- KEYNOTES:** (#)
- PROVIDE INFORMATION OUTLET FOR GOVERNMENT FURNISHED WIRELESS ACCESS POINT. PROVIDE BISQUIT STYLE JACK HOUSING AND COIL. 15' OF UTP NETWORK CABLING FOR LOCATION ADJUSTMENTS. TIE TO OVERHEAD STRUCTURE WITH VELCRO STRAPS. PROVIDE TRAPEZE HANGER SYSTEM ON 3/8" THREADED ROD TO MOUNT WAP AT APPROX. 10'-0" AFF.
 - PROVIDE MOTION DEVICE CONNECTED TO EXISTING RELOCATED ALARM PANEL. REFERENCE KEYNOTE #1 ON SHEET T-101. CONNECT TO SPARE ZONE #Z8 IN PANEL.
 - CONNECT DOOR CONTACTS TO EXISTING RELOCATED ALARM PANEL. REFERENCE KEYNOTE #1 ON SHEET T-101. DOOR CONTACTS FURNISHED WITH DOOR. CONNECT TO SPARE ZONE #Z11 IN PANEL.
 - MOUNT CAMERA AT APPROX. 9'-0" AFF. PROVIDE 4" OCTAGONAL J-BOX SUSPENDED FROM STRUCTURE ON THREADED ROD. PROVIDE 3/4" EMT CONDUIT WITH BUSHING STUBBED UP TO STRUCTURE. ROUTE UTP CABLING TO TR VIA J-HOOKS.



MEZZANINE FLOOR PLAN - TECHNOLOGY
 1/8" = 1'-0"

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Professional Engineer
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Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
MEZZANINE FLOOR PLAN - TECHNOLOGY

Approved:

Phase
BID SET

FULLY SPRINKLERED

Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
03/24/2021

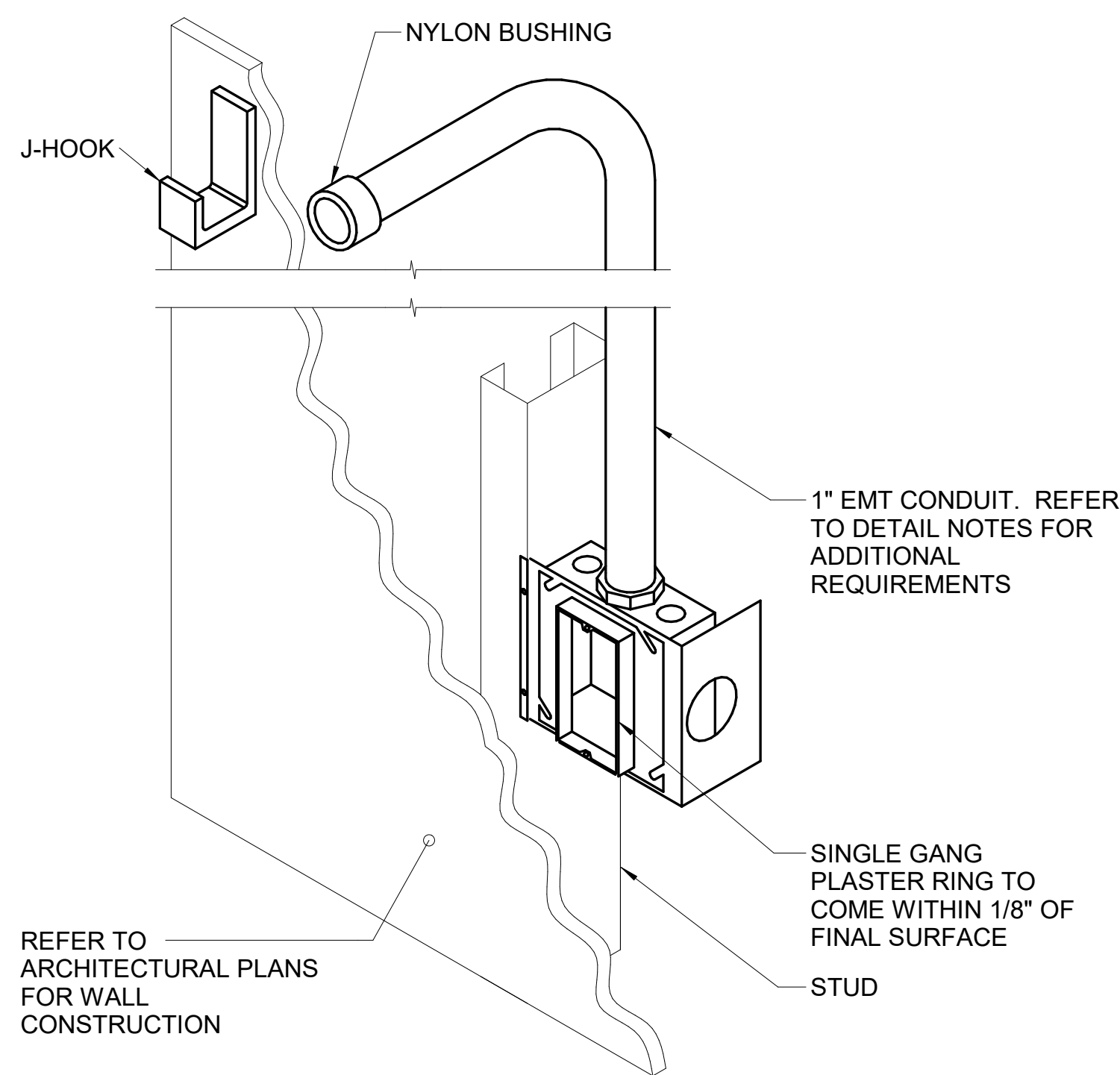
Checked
NICWNU

Drawn
SCOTHO

Project Number
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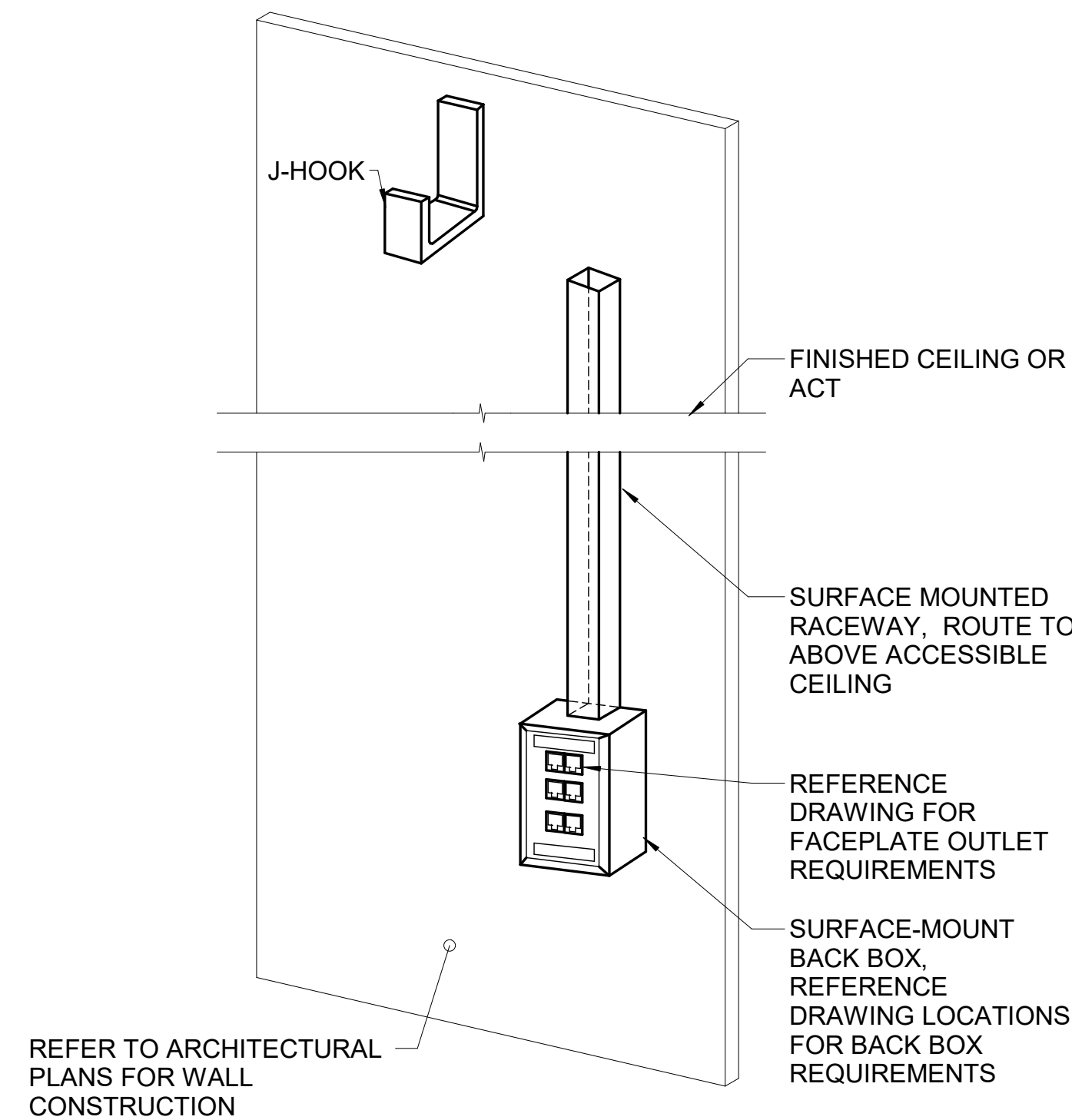
Building Number
14

Drawing Number
T-102
Dwg. # 87 of 94



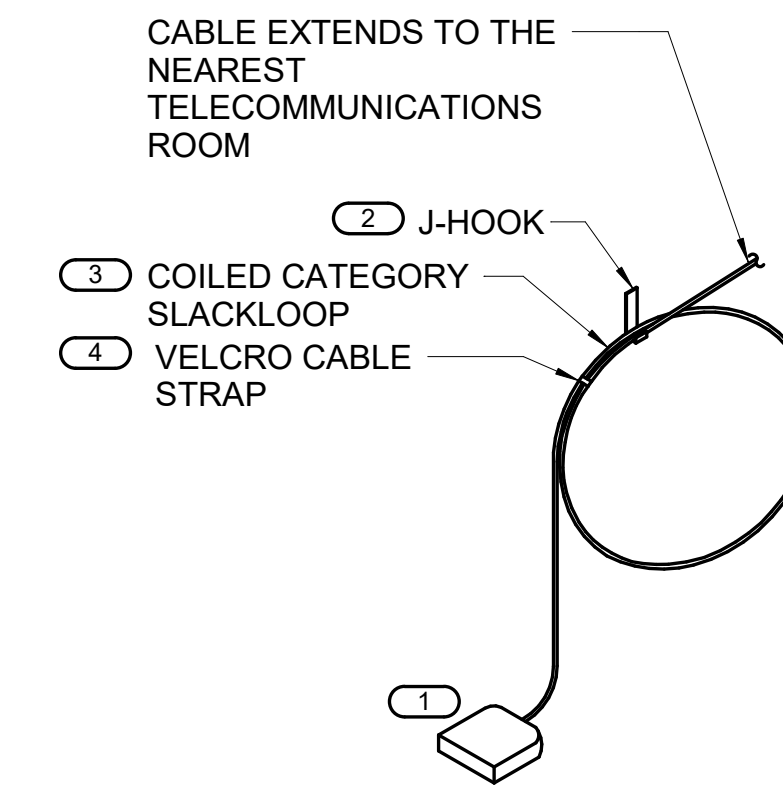
1 TECHNOLOGY ROUGH-IN MOUNTING DETAIL

- NO SCALE
- NOTES:**
1. 1" EMT CONDUIT SHALL STUB UP TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
 2. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.
 3. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
 4. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.



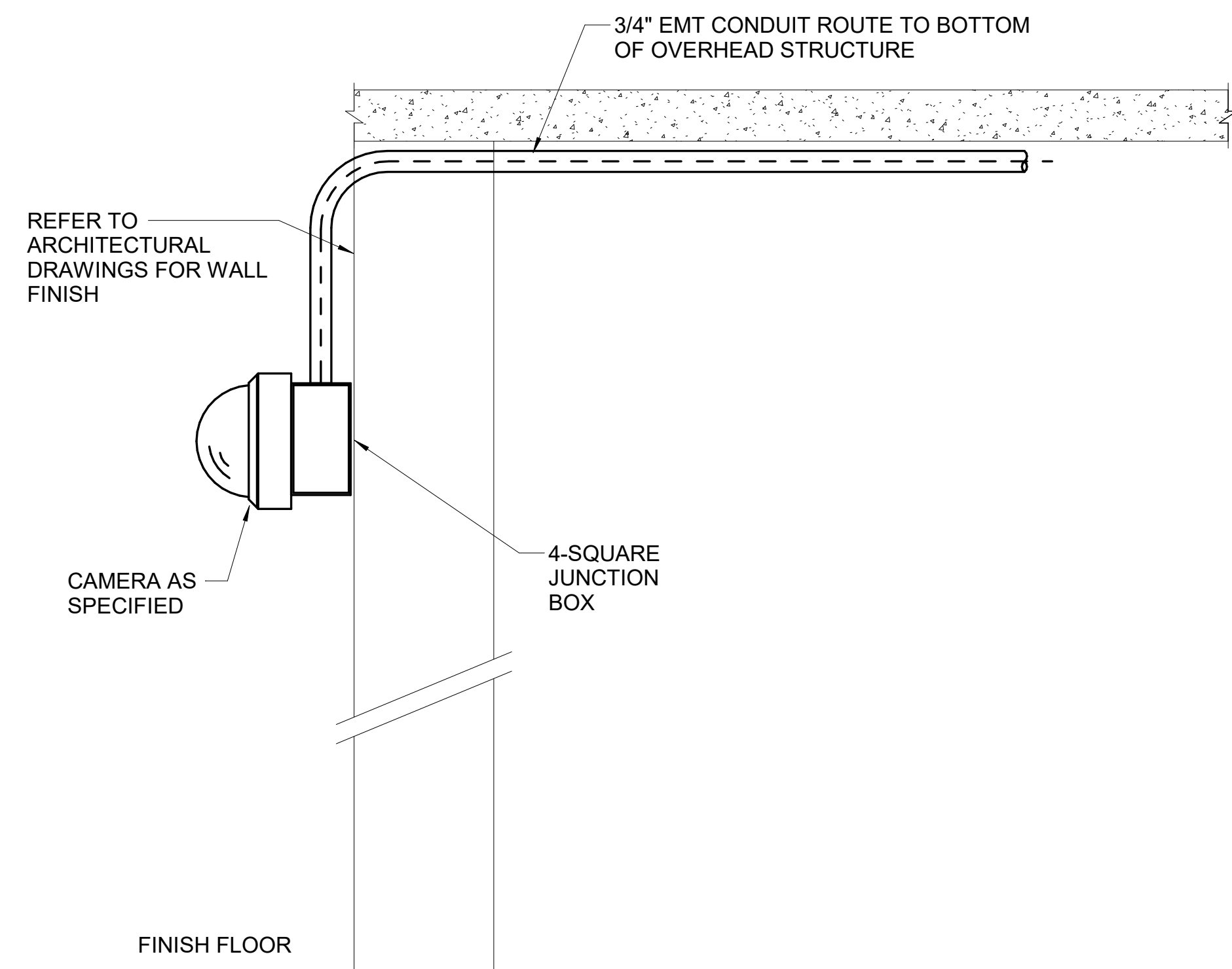
2 TECHNOLOGY ROUGH-IN SURFACE MOUNT RACEWAY DETAIL

- NO SCALE
- NOTES:**
1. WIREMOLD RACEWAY SHALL STUB UP TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE.
 2. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE WIREMOLD.



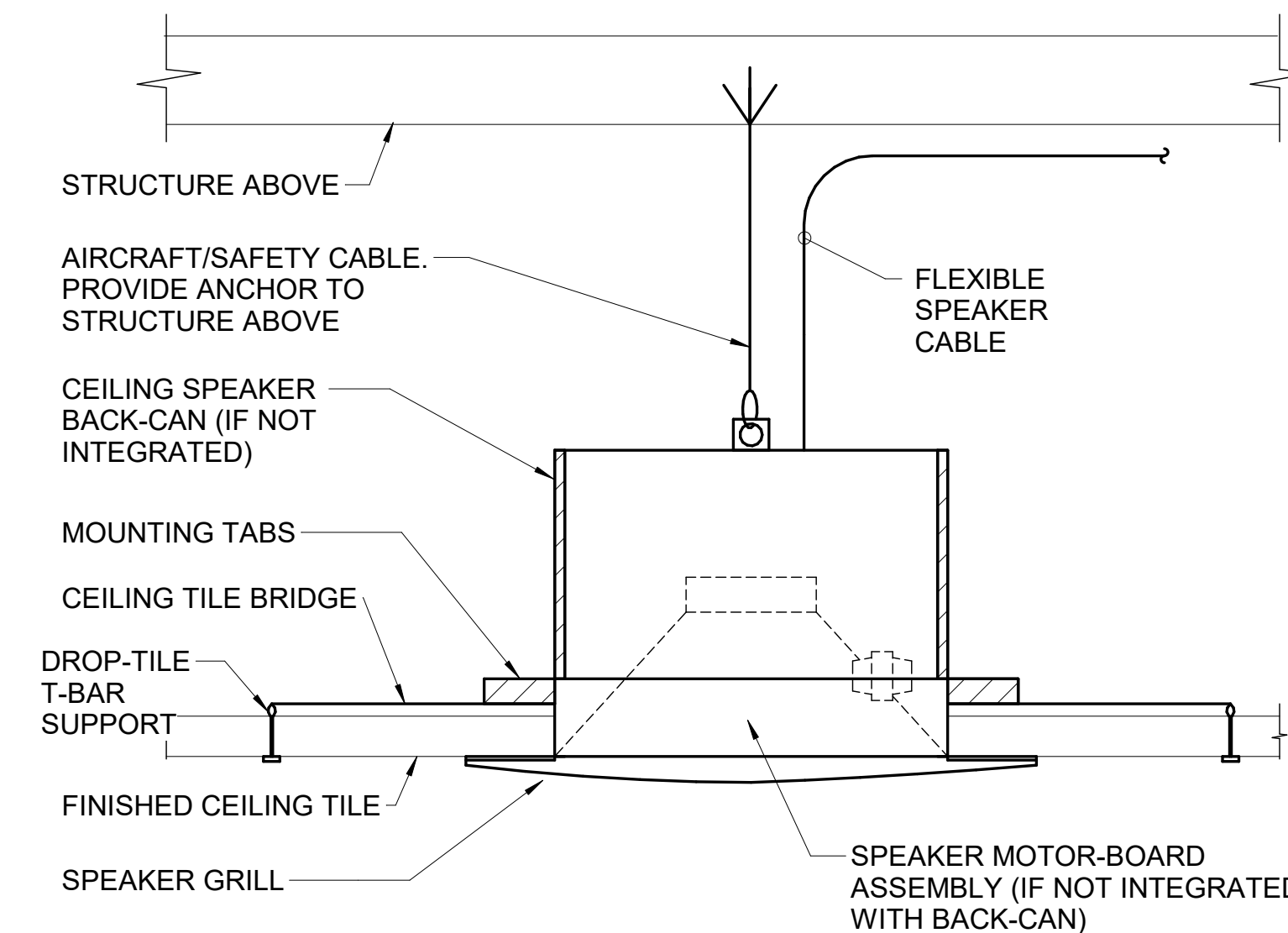
3 ABOVE CEILING INFORMATION OUTLET DETAIL

- NO SCALE
- NOTES:**
1. THIS DIAGRAM MAY NOT REPRESENT THE QUANTITY OF CABLES TO EACH INFORMATION OUTLET JUNCTION BOX. REFER TO THE DRAWINGS AND THE INFORMATION OUTLET SCHEDULE ON T-500 FOR ADDITIONAL INFORMATION.
 2. ALL DEVICES ARE INSTALLED ABOVE THE CEILING UNLESS OTHERWISE NOTED.
- KEYNOTES:** (C)
1. 1 OR 2-PORT PLENUM RATED SURFACE MOUNTED BOX. SUPPORT FROM J-HOOK. REFER TO THE INFORMATION OUTLET SCHEDULE AND GENERAL TECHNOLOGY EQUIPMENT LIST FOR ADDITIONAL INFORMATION.
 2. MOUNT A DEDICATED J-HOOK TO THE NEAREST CEILING SUBSTRUCTURE, COLUMN, JOIST, OR WALL ABOVE THE CEILING AS SHOWN ON THE DRAWINGS. PROVIDE THE PROPER SUPPORT WHEN HANGING FROM THE CEILING SUBSTRUCTURE OR COLUMN WALL OR JOIST.
 3. PROVIDE MINIMUM OF 15' SLACK LOOP FOR POSSIBLE DEVICE LOCATION ADJUSTMENTS. MAINTAIN THE MANUFACTURERS BEND RADIUS FOR SLACKLOOP SIZE.
 4. PROVIDE AND INSTALL A VELCRO CABLE STRAP ON THE SLACKLOOP APPROXIMATELY EVERY 6" ALONG THE SLACKLOOP. A MINIMUM OF THREE (3) STRAPS WILL BE INSTALLED.



4 INTERIOR WALL MOUNTED CAMERA ROUGH-IN DETAIL

- NO SCALE
- NOTES:**
1. COORDINATE EXACT LOCATION ON SITE WITH WORK BY OTHER TRADES TO ENSURE DESIRED VIEWING AREA AND SERVICE ACCESS AFTER COMPLETION OF PROJECT AND TO MINIMIZE ANY POSSIBLE DAMAGE TO INSTALLED CAMERA OR ASSOCIATED CABLING.
 2. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR CAMERA ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.
 3. CAMERA MOUNTING ACCESSORY SHALL BE FROM THE SAME MANUFACTURER OF THE CAMERA AND APPROVED BY THE MANUFACTURER FOR USE WITH THE SPECIFIC MODEL NUMBER OF CAMERA INSTALLED. CONTRACTOR SHALL INSTALL CAMERA MOUNTING ACCESSORY AND CAMERA PER MANUFACTURER'S INSTRUCTIONS.



5 CEILING SPEAKER MOUNTING DETAIL

- NO SCALE
- NOTES:**
1. WHERE SUPPORTS ATTACH TO METAL ROOF DECKING, EXCLUDING CONCRETE ON METAL DECKING, DO NOT EXCEED 25 LBS. PER HANGAR AND A MINIMUM SPACING OF 2'-0" ON CENTER. THIS 25 LB. LOAD AND 2'-0" SPACING INCLUDE ELECTRICAL AND MECHANICAL ITEMS HANGING FROM DECK.

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Revisions:	Date:

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 Calvin L. Hinz Architects, P.C. 3705 North 200th Street Elkhorst, Nebraska 68022 Phone: 402.291.6941 Fax: 402.291.9193	 IMEG Corp. 15 Summit Drive, Suite 104 St. Louis, MO 63143 Phone: (314) 954-2534
 Incandescence Life Safety, Inc. 3525 Ringier Court, #100, Denver, CO 80216 Phone: (720) 222-8910	 ZACHARY W. CARTER No. 19201 Expires 12/31/2022 03/24/2021

Office of Construction and Facilities Management

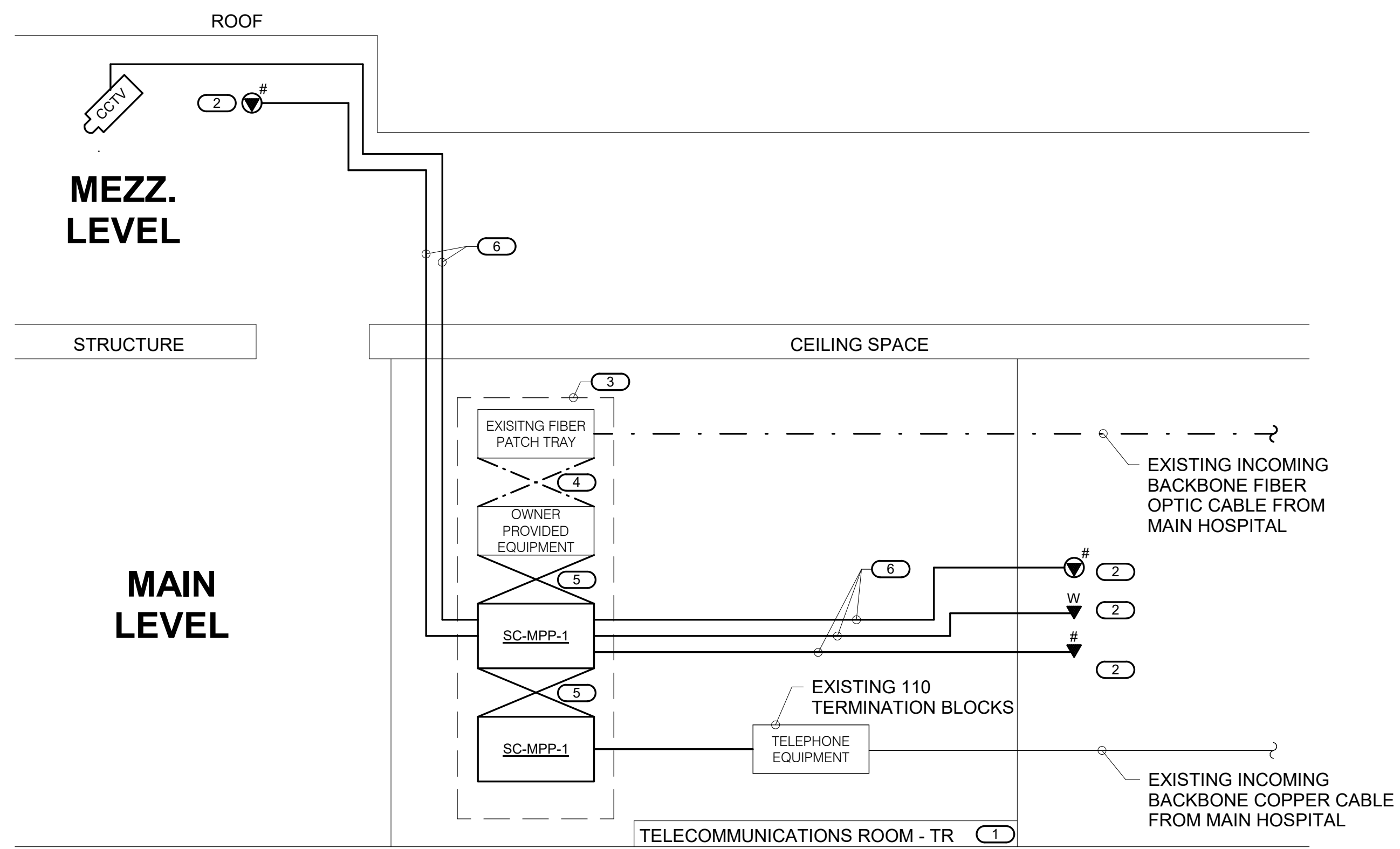
VA U.S. Department of Veterans Affairs

Drawing Title	TECHNOLOGY DETAILS
Approved:	

Phase	BID SET
	FULLY SPRINKLERED

Project Title	RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS
Location	HARRY S. TRUMAN MEM. VETERANS HOSPITAL 800 HOSPITAL DR., COLUMBIA MO 65201
Issue Date	03/24/2021
Checked	NICWNU
Drawn	SCOTHO

Project Number	589A4-20-158
Building Number	14
Drawing Number	T-300
	Dwg. # 88 of 94



1 LOCAL TELECOMMUNICATIONS ROOM RISER DIAGRAM

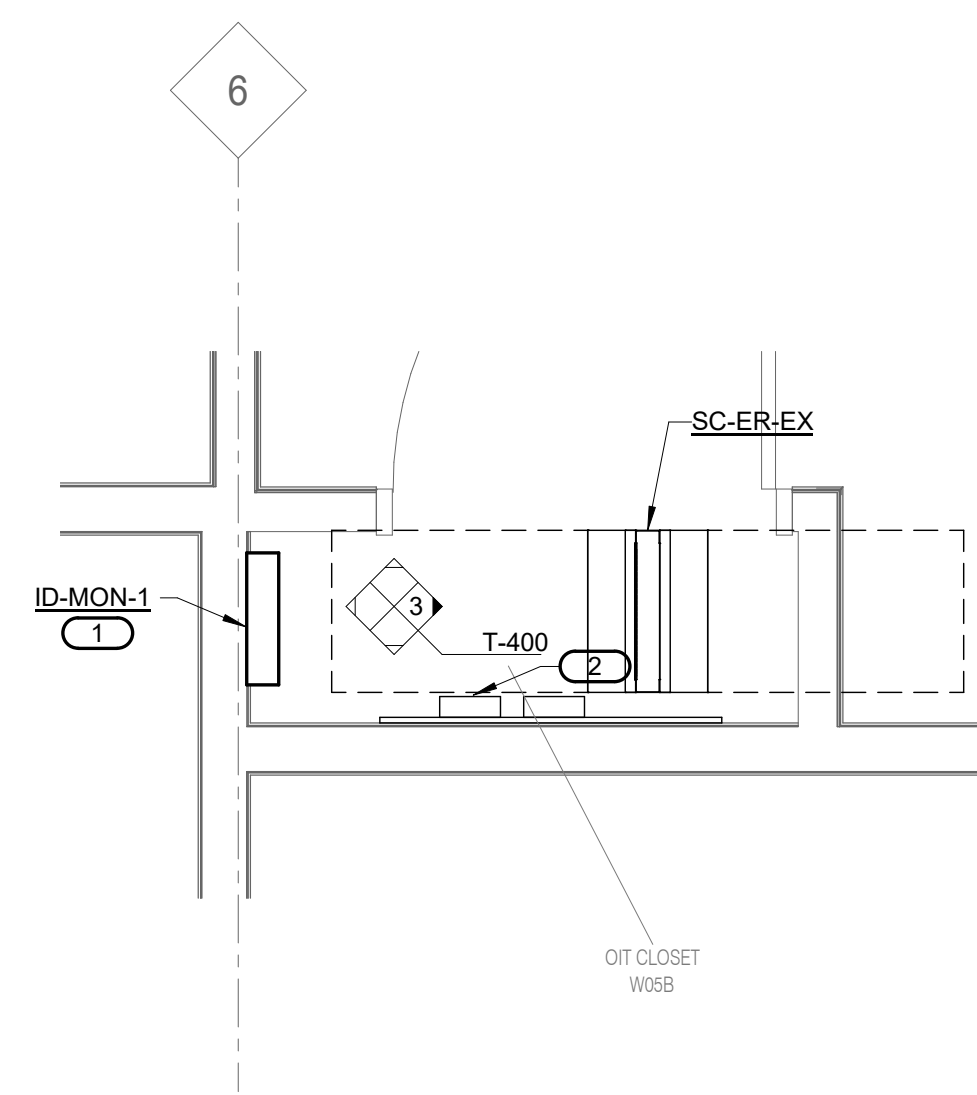
NO SCALE

NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.

KEYNOTES: (#)

1. REFER TO FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
2. # INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO THE HORIZONTAL CABLE SCHEDULE ON T-400 FOR ADDITIONAL INFORMATION.
3. EXISTING EQUIPMENT RACK OR CABINET.
4. EXISTING OPTICAL FIBER PATCH CABLES.
5. RJ-45 TO RJ45 CATEGORY 6A UTP PATCH CORDS. REFER TO SPECIFICATIONS.
6. 4-PAIR, CATEGORY 6A, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.



2 DATA ROOM ENLARGEMENT - FIRST FLOOR - WAREHOUSE TR



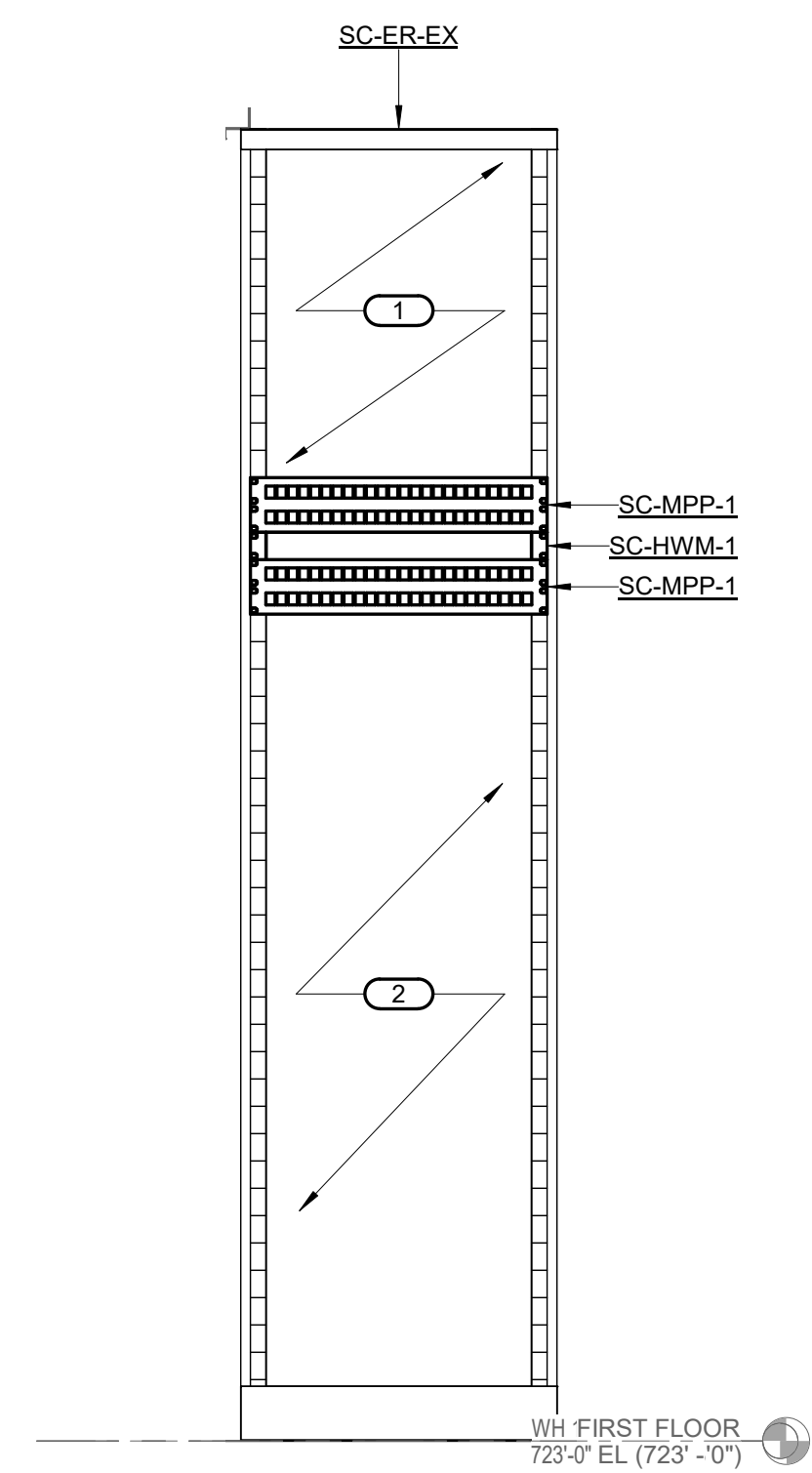
1/2" = 1'-0"

NOTES:

1. NOT ALL EQUIPMENT AND DEVICES ARE SHOWN, ROOM IS RELATIVELY CROWDED. COORDINATE WITH VA OIT DIRECTOR FOR EXACT MOUNTING LOCATION OF ANY NEW EQUIPMENT.

KEYNOTES:

1. MOUNT LYNX ALARM SYSTEM MONITORING DEVICE TO WALL IN EXISTING TR. CONNECT TO ALL EXISTING AND NEW SECURITY SYSTEMS PANELS LOCATED WITHIN THE WAREHOUSE. TOTAL OF THREE. TO PROVIDE ANNUNCIATION AT THE MAIN SECURITY OFFICE. CONNECT ETHERNET OUTPUT TO AVAILABLE SWITCH PORT PER VA OIT DIRECTION. PROVIDE WIRING TO MONITORED DEVICES PER MANUFACTURERS INSTRUCTIONS.
2. EXISTING PLYWOOD BACKBOARD WITH 110 TELEPHONE TERMINATION BLOCKS TO REMAIN. MODIFY WIRING FOR TELEPHONE OUTLETS AS REQUIRED.



3 EQUIPMENT RACK ELEVATION - WAREHOUSE TR

NO SCALE

NOTES:

1. THIS DETAIL IS DIAGRAMMATIC AND DOES NOT SHOW ALL EXISTING ITEMS LOCATED WITHIN THE RACK. THIS ELEVATION IS SHOWN FOR GENERAL LOCATIONS OF NEW RACK EQUIPMENT.
2. COORDINATE WITH COR AND OIT STAFF FOR PREFERRED MOUNTING LOCATION OF ALL NEW MATERIAL.

KEYNOTES: (#)

1. EXISTING PATCH PANELS AND SWITCHING EQUIPMENT. ALL DEMOLISHED CAT-5E OR CAT-6 JACKS AND CABLING SHALL BE COMPLETELY REMOVED. DO NOT ABANDON ANY MATERIALS IN PLACE.
2. SPACE FOR FUTURE EQUIPMENT.

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ZACHARY W. CARTER
Professional Engineer
No. 000000000
03/24/2021

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
TECHNOLOGY ROOM ENLARGEMENTS AND DIAGRAMS

Approved:

Phase
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Project Title
RENOVATE WAREHOUSE FOR PANDEMIC PREPAREDNESS

Location
HARRY S. TRUMAN MEM. VETERANS HOSPITAL
800 HOSPITAL DR., COLUMBIA MO 65201

Issue Date
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Project Number
589A4-20-158

Building Number
14

Drawing Number
T-400
Dwg. # 89 of 94

CAMERA TYPE CODE	CAMERA										LENS					ENCLOSURE					BASIS OF DESIGN	NOTES:							
	SENSOR SIZE	MAXIMUM RESOLUTION	SENSITIVITY TYPE		SHUTTER SPEED	COMPRESSION CODEC	MAXIMUM FRAME RATE	FEATURES				FEATURES		TYPE		MOUNT		FINISH											
PTZ CAMERA	1/3"	1080	HORIZONTAL	VERTICAL				DYNAMIC LOW LIGHT	WIDE DYNAMIC RANGE	MINIMUM ILLUMINATION	DAY/NIGHT	INFRARED	DIGITAL ZOOM	WIRELESS	TCP/IP	CMOS	3.5mm	VARIFOCAL	AUTO IRIS	AUTO ZOOM	MEGAPIXEL	DAY/NIGHT	RECESSED DOME	SURFACE MOUNTED DOME	PENDANT MOUNTED DOME	CEILING PENDANT	WALL MOUNT	CEILING MOUNT	INDOOR (NEMA 1)
CAM1																													

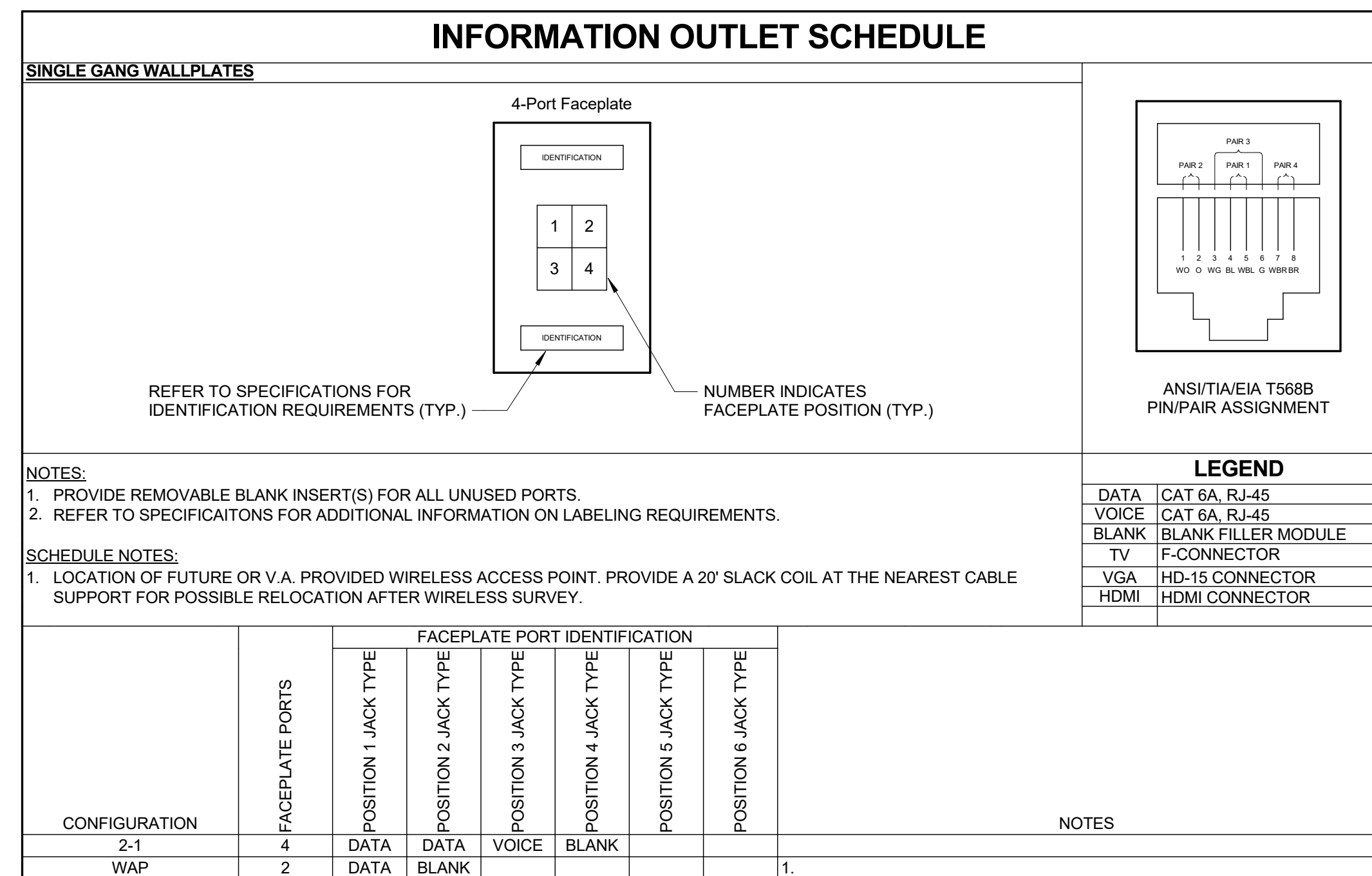
CAMERA #	CAMERA TYPE CODE	ROUGH-IN		IP CAMERA STORAGE CALCULATION BASIS	RECORDED RESOLUTION		NOTES	
		ROUGH-IN ONLY	NOTES		H. RESOLUTION	V. RESOLUTION		
01-01	CAM1			H.264	30	5	1920 1080	
01-02	CAM1			H.264	20	15	1920 1080	
01-EX1	CAM1			H.264	20	40	1920 1080	
01-EX2	CAM1			H.264	20	40	1920 1080	
01-EX3	CAM1			H.264	20	15	1920 1080	
01-EX4	CAM1			H.264	20	15	1920 1080	
02-01	CAM1			H.264	20	15	1920 1080	
02-02	CAM1			H.264	20	30	1920 1080	

VA TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
AC-CR1-W	ACCESS CONTROL AUTHORIZATION DEVICE, CARD READER WITH KEYPAD, FIPS 201 COMPLIANT, TRIMS TO SINGLE GANG BACKBOX.	HID RK40-H OR APPROVED EQUAL
AC-DC	ACCESS CONTROL DOOR CONTACT, FLUSH MOUNTED IN NEW DOORS, SURFACE MOUNTED FOR EXISTING DOORS.	PROVIDED BY DOOR VENDOR OR RELOCATED EXISTING
AC-EDH	ACCESS CONTROL ELECTRONIC LOCK DEVICE.	EXISTING TO REMAIN OR FURNISHED BY OTHER
AC-MD	INTRUSION DETECTION MOTION SENSOR.	BOSCH BLUE LINE DETECTOR ISC-CDL1-WA15HE BRACKET B328 OR APPROVED EQUAL
AC-PB	ACCESS CONTROL PUSH BUTTON REQUEST TO EXIT (REX) DEVICE, WITH TIME DELAY RELAY FUNCTION ADJUSTABLE FROM 0-100 SECONDS.	SECURITRON EEB2 OR APPROVED EQUAL
ID-AA-W	INTRUSION DETECTION ALARM AUDIBLE ANNUCIATOR.	HONEYWELL 747 OR APPROVED EQUAL
ID-IP-W	INTRUSION DETECTION KEYPAD.	BOSCH KEYPAD D1255 BACKBOX D55 OR APPROVED EQUAL
ID-MON-1	LYNX ALARM SYSTEM MONITORING DEVICE, WALL MOUNT, 4-DIFFERENT ALERTS, ETHERNET CONNECTED, TCP/IP COMMUNICATION, CONNECTION TO SERVER EVERY 5 MINUTES FOR STATUS REPORT, RS-232 AND USB PORT, LED INDICATORS, +120VDC FROM POWER SUPPLY.	LYNX SYSTEMS 950-LYNX-4I-3
ID-SCP-1	INTRUSION DETECTION ALARM CONTROL PANEL WITH POWER SUPPLY, BATTERY BACK-UP, CHARGING CIRCUIT AND A KEYPAD METAL LOCK ON DOOR WITH TAMPER SWITCH, PROVIDE ANY MISCELLANEOUS WIRING HARNESS AND MANAGEMENT FOR A COMPLETE ASSEMBLED AND TESTED UNIT.	BOSCH CONTROLLER 3512 ENCLOSURE D8108A OR APPROVED EQUAL
PA-S-C	PA SYSTEM SPEAKER, CEILING MOUNT, 8" DRIVER WITH ROUND METAL PERFORATED BAFFLE PAINTED WHITE, INTEGRAL 70VOLT TRANSFORMER WITH MULTIPLE TAPS.	QUAM SOLUTION 1 SPEAKER C10X/BU/WS BAFFLE BR8WS BACKBOX ERD8U OR APPROVED EQUAL
SC-ER-EX	EQUIPMENT RACK, STANDARD 19" TIA-EIA MOUNTING RAILS, 45 RACK MOUNTING UNITS.	EXISTING TO REMAIN
SC-HWM-1	HORIZONTAL WIRE MANAGER, 1 RU.	LEGRAND ORTRONICS OR-SHM2RU OR APPROVED EQUAL
SC-IO-C	INFORMATION OUTLET FOR WIRELESS ACCESS POINT, MODULAR SURFACE MOUNT JACK HOUSING WITH RJ-45 CAT-6A RATED JACKS. REFER TO DETAIL 3/T-300 FOR ADDITIONAL INFORMATION	LEGRAND ORTRONICS HOUSING WP3502IV JACK (CAT-6A, RJ-45) TJ6A-36 (BLUE) OR APPROVED EQUAL
SC-IO-W	INFORMATION OUTLET, WALL MOUNT, COVERPLATE AS INDICATED ON DRAWINGS, REFER TO INFORMATION OUTLET DETAILS ON T-300 FOR ADDITIONAL INFORMATION.	LEGRAND ORTRONICS FACEPLATE 40300545 JACK (CAT-6A, RJ-45) TJ6A-36 (BLUE) OR APPROVED EQUAL
SC-MPP-1	PATCH PANEL, CAT-6A, 48 PORTS WITH LABEL FIELDS, PORT NUMBERING AND REAR CABLE MANAGEMENT BAR, RJ-45 PORTS WITH 110 STYLE IDC PUNCH DOWN CONNECTORS ON EACH PORT. STANDARD BLACK FINISH, REQUIRES 2U OF RACK SPACE.	LEGRAND ORTRONICS SP6AU48 OR APPROVED EQUAL



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Drawing Title
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Dwg. # 90 of 94