

A. GENERAL

[1] THE STRUCTURAL ENGINEERS OF RECORD ARE RESPONSIBLE FOR THE ADEQUACY OF THE STRUCTURAL DESIGN AS SHOWN IN THE CONTRACT DOCUMENTS WHICH DEPICT THE STRUCTURE IN ITS COMPLETED FORM. THE STRUCTURE IS DESIGNED TO BE CAPABLE OF WITHSTANDING CODE PRESCRIBED DESIGN FORCES AND FULLY STABLE WHEN THE STRUCTURE IS FULLY CONSTRUCTED (I.E. FULLY BUILT). IT IS SOLELY THE RESPONSIBILITY OF OTHERS TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AS WELL AS TO PROVIDE FOR THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIE DOWNS, OR DOWELING WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.

[2] IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

[3] SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, IT SHALL BE ASSUMED THAT THE STRICTEST PROVISION SHALL GOVERN AND A WRITTEN REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE CONTRACTING OFFICER AND A/E. ADDITIONALLY, ALL ITEMS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, OR AMBIGUITIES IN THE PLANS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE A/E. CONTRACTOR SHALL SUBMIT RFI PRIOR TO COMMENCING WITH AFFECTED WORK AND SHALL AWAIT THE A/E'S APPROVAL TO PROCEED PRIOR TO PERFORMING WORK.

[4] ALL CONSTRUCTION ERRORS THAT CANNOT BE REMOVED AND REBUILT MAY BE SAVED AS FOLLOWS: THE CONTRACTOR MAY ARRANGE, AT THE CONTRACTOR'S EXPENSE, DESIGN CALCULATIONS SEALED BY A LICENSED SOUTH DAKOTA STRUCTURAL ENGINEER THAT CERTIFY AND APPROVE ANY CONSTRUCTION REPAIR IN COMPLIANCE WITH ALL APPLICABLE CODES AND GENERAL DESIGN INTENT.

[5] STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH THE OTHER DRAWINGS RELEASED FOR THE PROJECT. CONTRACTOR TO COORDINATE, TO THE EXTENT POSSIBLE, SUCH INTERRELATIONSHIPS IN PROJECT SHOP DRAWINGS AND FIELD WORK.

[6] DO NOT SCALE THESE DRAWINGS. USE DIMENSIONAL DATA PROVIDED.

[7] REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE-PROOFING METHODS, AND FIRE-PROOFING MATERIALS FOR STRUCTURAL MEMBERS.

B. DESIGN LOADS: (VUSBC 2012/ASCE 7-10)

[1] LIVE LOADS DISTRIBUTED LOAD

ROOF LIVE LOAD: 20 PSF
MINIMUM DESIGN ROOF LIVE LOAD

ROOF SNOW LOAD: 40 PSF
GROUND SNOW LOAD, P_g 31 PSF
FLAT ROOF SNOW LOAD, P_f 31 PSF
SLOPED ROOF SNOW LOAD, P_s 1.0
SNOW EXPOSURE FACTOR, C_e 1.1
SNOW THERMAL FACTOR, C_t
SNOW LOAD IMPORTANCE FACTOR, I

[3] WIND DESIGN PARAMETERS

a. BASIC WIND SPEED = 120 MPH
b. WIND EXPOSURE = EXPOSURE C

[4] SEISMIC DESIGN PARAMETERS

a. RISK CATEGORY III
b. DESIGN CATEGORY B
c. IMPORTANCE FACTOR 1.25
d. SITE CLASS D
e. 0.2 SECOND MAPPED SPECTRAL ACCELERATION, S_s 0.089 g
f. 1.0 SECOND MAPPED SPECTRAL ACCELERATION, S₁ 0.035 g
g. 0.2 SECOND DESIGN SPECTRAL RESPONSE, S_{0.2} 0.095 g
h. 1.0 SECOND DESIGN SPECTRAL RESPONSE, S_{1.0} 0.056 g
i. ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE PROCEDURE
j. SEISMIC BASE SHEAR V = C_s x WEIGHT

C. DESIGN SPECIFICATIONS

CODE REFERENCES

ASCE 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, ACI 318 - 2011
BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMMENTARIES, ACI 530 - 2011
COLD-FORMED STEEL DESIGN MANUAL, AISI - 2007
SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AISI - 2007
STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS - NOVEMBER 2007
STEEL DECK INSTITUTE ROOF DECK CONSTRUCTION HANDBOOK - 2000
STEEL DECK INSTITUTE DIAPHRAGM DESIGN MANUAL - SEPTEMBER 2004C, CODE
STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS - NOVEMBER 2007
STEEL DECK INSTITUTE MANUAL OF CONSTRUCTION WITH STEEL DECK - AUGUST 2006
STEEL DECK INSTITUTE STANDARD PRACTICE DETAILS - MAY 2007
AISC 360-10 MANUAL OF STEEL CONSTRUCTION - AISC, 13TH EDITION
AISC 341-10 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS
SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OF A490 BOLTS - 30 JUNE 2004
STRUCTURAL WELDING CODE - STEEL, AWS/AWS D1.1 - 2008

D. STRUCTURAL STEEL

[1] MATERIALS:

a. W-SHAPE MEMBERS: ASTM A992, F_y=50KSI
b. CHANNELS, M-SHAPES, S-SHAPES: ASTM A572, F_y=50KSI, AND ASTM 6
c. HOLLOW STRUCTURAL SHAPES (DESIGNATED AS HSS OR THS): ASTM 500, GRADE B, (ROUND HSS -> F_y=42KSI) (SQUARE & RECTANGULAR HSS -> F_y=48KSI)
d. TEES: SAME MATERIAL OF THE FULL SECTIONS THAT WERE SPLIT TO MAKE THE TEE SECTION
e. MISC. STEEL, PLATES, AND ANGLES: ASTM A36 F_y=36 KSI, OR ASTM A572, GRADE 50 WHERE NOTED ON THE DRAWINGS, AND ASTM A6
f. HIGH STRENGTH BOLTS: ASTM A325 OR A490
g. ELECTRODES: E70XX
h. SHOP DRAWINGS SHALL INDICATE MATERIAL STRENGTH ON DRAWINGS.

[2] SPECIFICATIONS:

WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1 UNLESS SPECIFICALLY SHOWN OTHERWISE. DESIGN, FABRICATION, AND ERECTION TO BE GOVERNED BY THE LATEST REVISIONS OF:
a. AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
b. AISC CODE OF STANDARD PRACTICE
c. STRUCTURAL WELDING CODE, CURRENT AWS D1.1 OF THE AMERICAN WELDING SOCIETY.
d. SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR 490 BOLTS.
e. SEE ALSO GENERAL SPECIFICATIONS.

[3] CONNECTIONS:

a. IT IS THE RESPONSIBILITY OF THE FABRICATOR TO PROVIDE ALL STIFFENER PLATES, ETC., THAT MAY BE REQUIRED IN ADDITION TO THOSE SHOWN ON THE STRUCTURAL SCHEMATIC DETAILS TO ENSURE THAT THE MEMBERS CONNECTED TOGETHER HAVE ADEQUATE STRENGTH AT THE CONNECTION. COMPLETELY DETAILED INCLUDES PROVIDING THE FOLLOWING INFORMATION ON THE DETAIL:
[1] ALL PLATE DIMENSIONS AND GRADES
[2] ALL WELD SIZES, LENGTHS, PITCHES AND RETURNS
[3] ALL HOLE SIZES AND SPACINGS
[4] NUMBER AND TYPES OF BOLTS

[4] MISCELLANEOUS:

a. NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE AND HOLES, SLOTS, CUTS, ETC., ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.
b. FABRICATE ALL BEAMS AND MEMBERS WITH THE MILL CAMBER UP.
c. ALL COLUMNS TO HAVE 1/2" THICK CAP PLATES, UNLESS OTHERWISE NOTED.
d. ALL STEEL EXPOSED TO WEATHER, INCLUDING VENEER LINTEL ANGLES AND SUPPORTS, SHALL BE HOT-DIPPED GALVANIZED PER PLANS AND SPECIFICATIONS.
[5] PAINT:
a. SHOP PAINT ALL NEW STRUCTURAL AND MISCELLANEOUS STEEL TO MATCH EXISTING ROOF STRUCTURE.
b. ANY SCARRED AREAS SHALL BE TOUCHED UP WITH THE SAME PAINT AFTER ERECTION. PAINT COLOR SHALL BE BLACK.
E. MASONRY
[1] ANCHORS
a. ALL POST INSTALLED ANCHORS SHALL BE INSTALLED INTO SOLID-GROUTED MASONRY CELLS PER MANUFACTURER'S RECOMMENDATIONS.
b. EXPANSION AND EPOXY ANCHORS SHALL BE THE SIZE AND EMBEDMENT LENGTH AS SPECIFIED ON THE DRAWINGS. PROVIDE ANCHORS WITH THE FOLLOW MINIMUM ALLOWABLE STRESS DESIGN CAPACITIES: TENSION = 1500 POUNDS; SHEAR = 1000 POUNDS.
c. CAST ANCHORS AND BOLTS SHALL BE INSERTED INTO WALL FOR THE EMBEDMENT DEPTH SHOWN IN THE DRAWING DETAILS, 5" MINIMUM, AND SURROUNDING CELLS WITHIN 1.5 TIMES THE EMBEDMENT DEPTH SHALL BE GROUTED SOLID TO ENCAPSULATE THE ANCHOR.

ABBREVIATIONS & NOTATION

AB - ANCHOR BOLT ARCH - ARCHITECTURE BM - BEAM BRG - BEARING BLK - BLOCK B- BOTTOM B.O.M.D. - BOTTOM OF METAL DECK B.O.M. - BOTTOM OF MASONRY B.O.P.S. - BOTTOM OF PRECAST SLABS C - CENTERLINE CLR - CLEAR COL - COLUMN CONT. - CONTINUOUS CONC. - CONCRETE CMU - CONCRETE MASONRY UNIT CONNS. - CONNECTIONS CJ - CONTROL JOINT DBA - DEFORMED BAR ANCHOR DIA - DIAMETER DIM. - DIMENSION DWG - DRAWING EA - EACH EF - EACH FACE EW - EACH WAY ELEV. EL. - ELEVATION	EMBED - EMBEDMENT EQUIP. - EQUIPMENT EQ SPA. - EQUALLY SPACED EXP. - EXPANSION FF - FINISHED FLOOR FTG. - FOOTING GALV. - GALVANIZED GEN. - GENERAL G.L. - GRADE LINE HORIZ. - HORIZONTAL HR. - HANDRAIL H.S.S. - HOLLOW STRUCTURAL SHAPE I.J. - ISOLATION JOINT K - KIPS (1000 lbs.) L - ANGLE LG - LONG LLV - LONG LEG VERTICAL L.O.W. - TOP OF WALL T.O.B.L. - TOP OF BRICK LEDGE T.O.F.W. - TOP OF FOUNDATION WALL T.O.C.W. - TOP OF CONCRETE WALL T.O.M. - TOP OF MASONRY T.O.S.B. - TOP OF STEEL BEAM UNO. - UNLESS NOTED OTHERWISE VERT. - VERTICAL WS - WATERSTOP	P - PLATE PEMB - PRE-ENGINEERED METAL BUILDING SYSTEM PSF - POUNDS PER SQUARE FOOT PSI - POUNDS PER SQUARE INCH RD. - ROOF DRAIN REF. - REFERENCE REINF. - REINFORCING REQD. - REQUIRED SIM. - SIMILAR HR. - HANDRAIL T&B. - TOP AND BOTTOM TYP. - TYPICAL TFTG. - TOP OF FOOTING T.O.W. - TOP OF WALL T.O.B.L. - TOP OF BRICK LEDGE T.O.F.W. - TOP OF FOUNDATION WALL T.O.C.W. - TOP OF CONCRETE WALL T.O.M. - TOP OF MASONRY T.O.S.B. - TOP OF STEEL BEAM UNO. - UNLESS NOTED OTHERWISE VERT. - VERTICAL WS - WATERSTOP
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FINAL SUBMITTAL
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SEAL



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Drawing Title

GENERAL NOTES

Approved: Project Director
Approver

Project Title

VA HEALTH CARE SYSTEM

Location
VAS 438-16-104 BLDG. 5 CHAPEL
SIOUX FALLS, SD 57105

Project Number

438-16-104 2016.052

Building Number

5

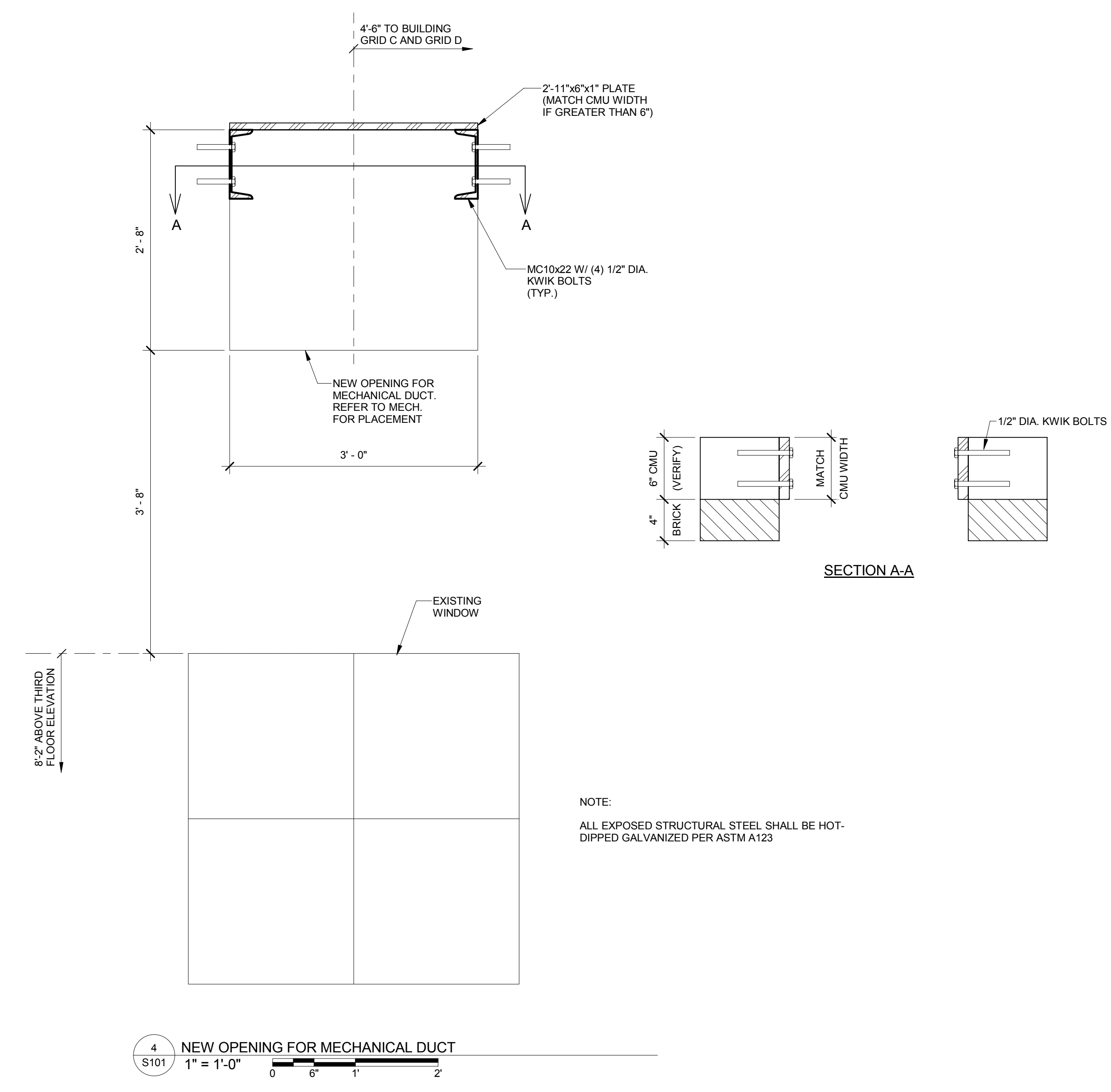
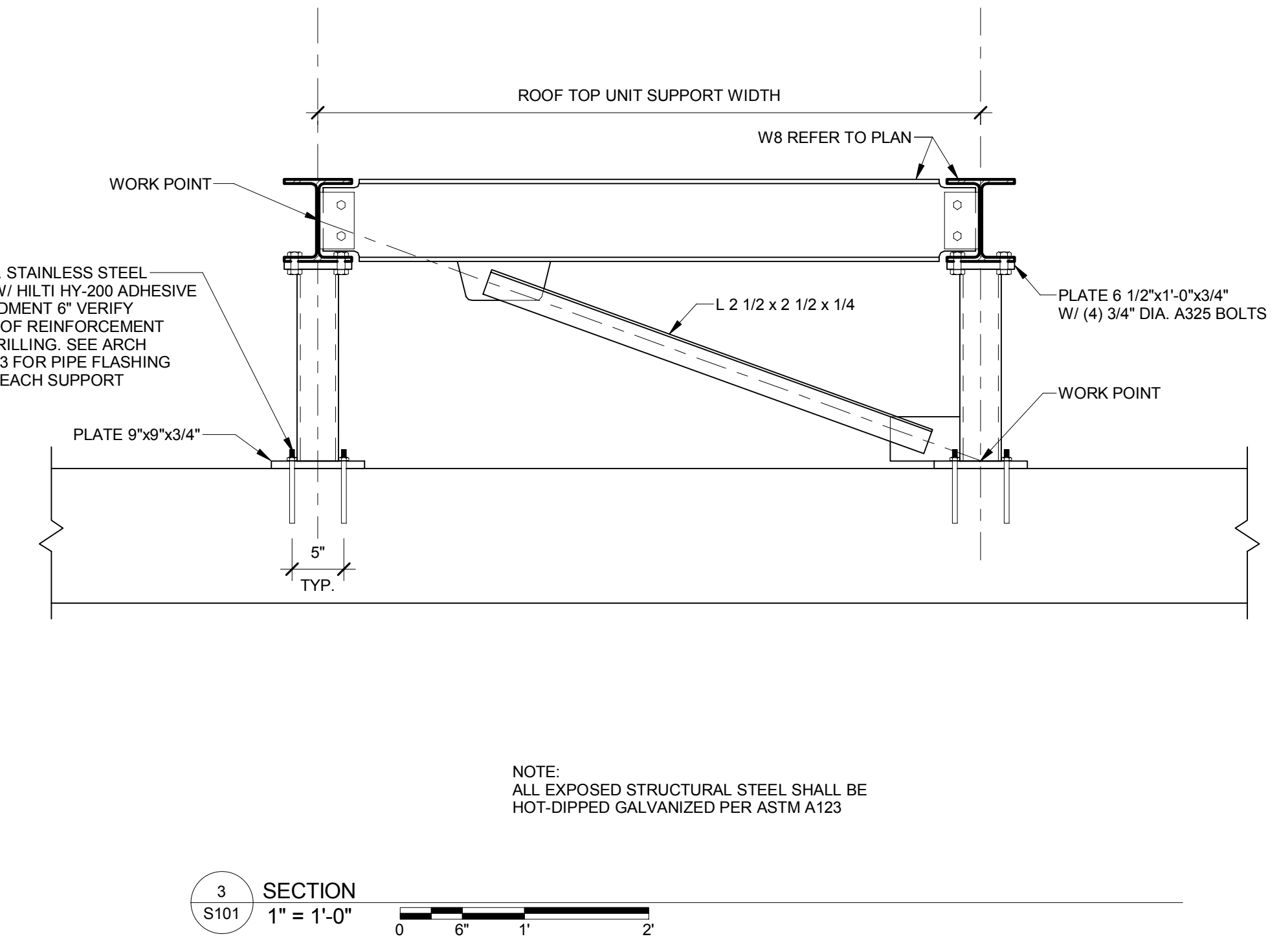
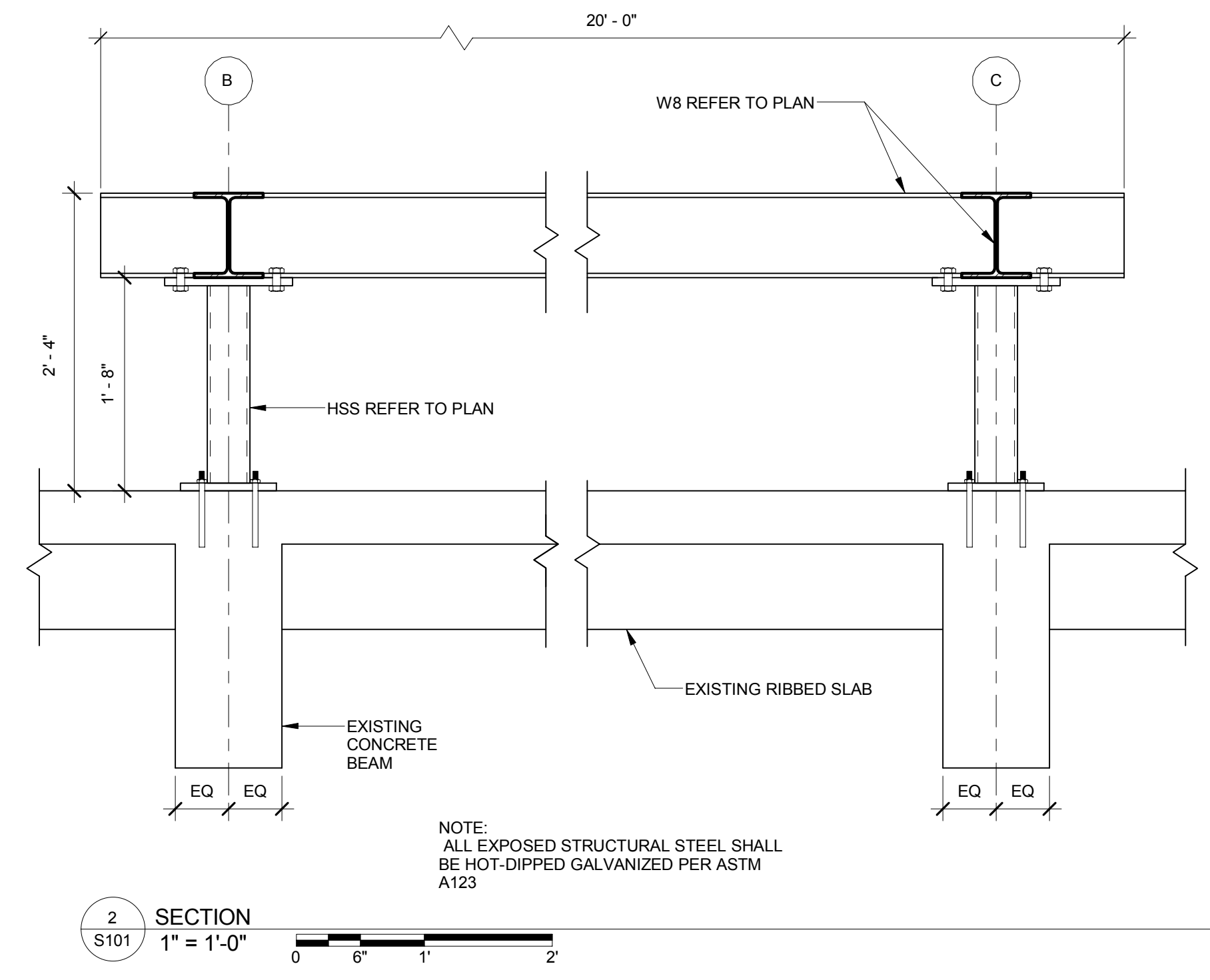
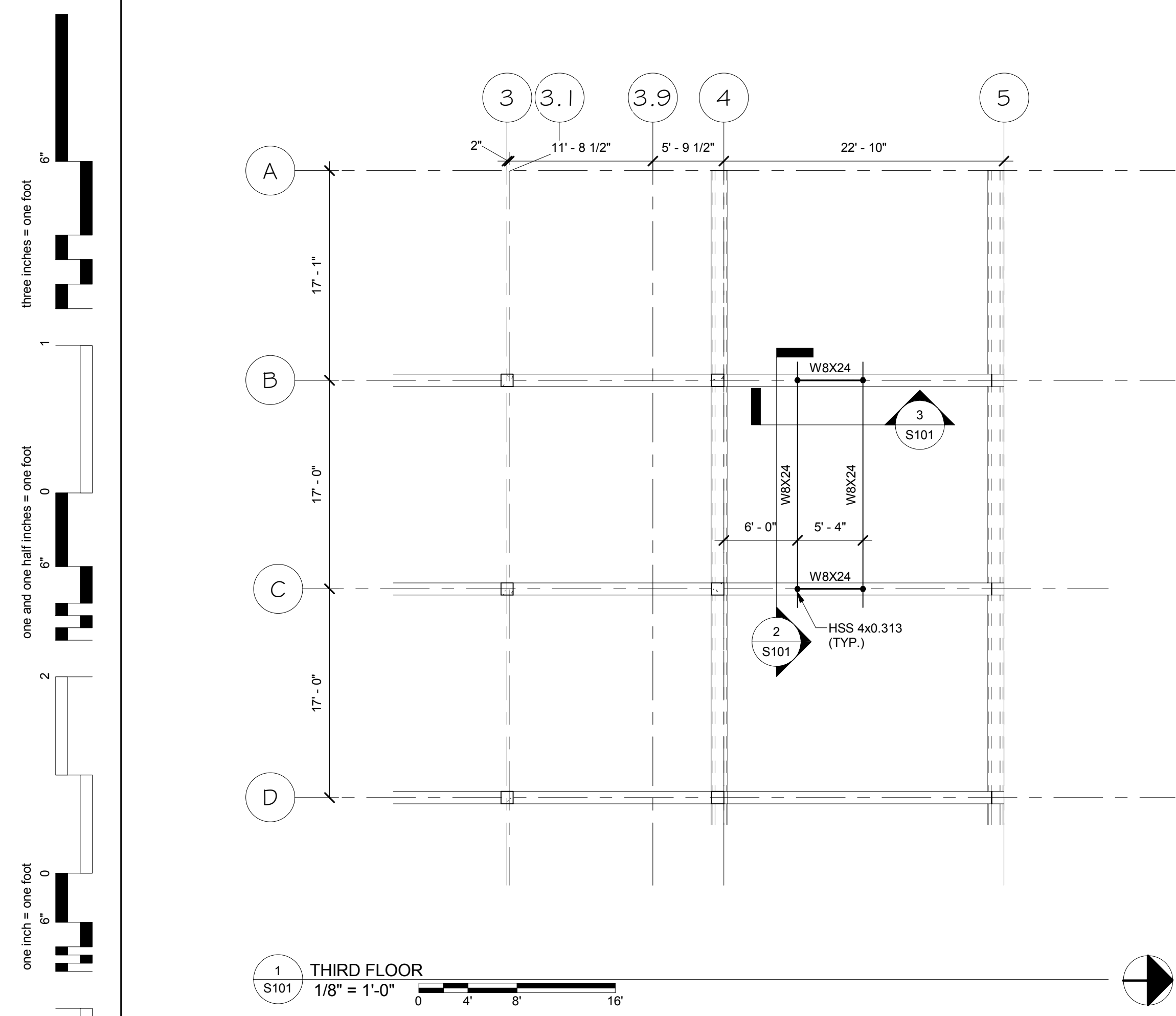
Drawing Number

S001

Scale:

OWNER





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

2 SECTION
1" = 1'-0"

3 SECTION
1" = 1'-0"

4 SECTION
1" = 1'-0"

Revisions: _____ Date _____

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FINAL SUBMITTAL FOR CONSTRUCTION

Drawing Title
MECHANICAL SUPPORT FRAMING AND DETAILS

Approved: Project Director
Approver

Project Title
VA HEALTH CARE SYSTEM

Project Number
438-16-104 2016.052

Building Number
5

Drawing Number
S101

Date
2017.03.13

Checked
SY

Drawn
LB

Location
VAS 438-16-104 BLDG. 5 CHAPEL
SIOUX FALLS, SD 57105

OWNER
Department of Veterans Affairs

HVAC ABBREVIATION LEGEND

Table with 3 columns: Abbreviation, Full Name, and Description. Includes items like AMPS, AIR-CONDITIONING UNIT, ALUMINUM, etc.

PIPE SYMBOL LEGEND

Table with 3 columns: Symbol, Pipe Name, and Description. Includes symbols for chilled water supply/return, condenser water, heating hot water, etc.

DUCTWORK SYMBOL LEGEND

Table with 3 columns: Symbol, Duct Name, and Description. Includes symbols for supply/exhaust air ducts, return air ducts, and various transitions.

ANNOTATION SYMBOL LEGEND

Table with 3 columns: Symbol, Annotation Name, and Description. Includes symbols for thermostat, humidistat, switch, and equipment plan marks.

AIR DEVICE AND DUCT ACCESS. LEGEND

Table with 3 columns: Symbol, Device Name, and Description. Includes symbols for return air grilles, diffusers, and transfer openings.

GENERAL PROJECT NOTES

GENERAL:

- 1. INSTALL THE H.V.A.C. SYSTEM AS INDICATED IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. COORDINATE ALL WORK WITH OTHER TRADES... 12. THE LOCATION OF CONCEALED PIPING, CONDUIT, DUCTWORK, WIRING, ETC. PRIOR TO CUTTING OR DRILLING THROUGH WALLS, FLOORS, CEILING OR ROOF DECKS.

PIPING NOTES:

- 1. PRESSURE TEST ALL STEAM AND STEAM CONDENSATE PIPING SYSTEMS TO 100 PSIG OR 1.5 TIMES THE SYSTEM OPERATING PRESSURE... 12. PROVIDE TRAPS WITH CLEANOUT ON ALL FAN COIL UNITS, UNIT VENTILATORS, OX FURNACE COIL CONDENSATE DRAIN CONNECTIONS.

PAINTING:

- 1. MECHANICAL SUPPORTS, INTERIOR, FINISHED SPACE, EXPOSED UNPAINTED, PRIMED OR NON-PLATED STEEL SUPPORTS, HANGERS, BRACKETS, ETC. LOCATED WITHIN INTERIOR FINISHED SPACES... 12. WHERE EXISTING PIPING, DUCTWORK, EQUIPMENT, CONDUIT, WIRE MOLD, ETC. HAVE BEEN REMOVED FROM WALLS, PATCH WALL AND PAINT TO NEAREST 'EYE BREAK' OR MASONRY UNIT.

EQUIPMENT - GENERAL:

- 1. INSTALL STEAM SYSTEM THERMOMETERS WHERE INDICATED ON THE DRAWINGS AND AT THE INLET AND OUTLET CENTER STATION AIR HANDLING UNIT COIL AND HEAT EXCHANGER, STEAM AND PROBE MUST EXTEND TO AT LEAST THE CENTER OF THE PIPE... 12. THE MECHANICAL CONTRACTOR SHALL NOTIFY THE OWNER OF ANY ADDITIONAL CHARGES TO EXTEND THE EQUIPMENT WARRANTY PERIOD AS NECESSARY.

EQUIPMENT SUPPORTS:

- 1. COORDINATE THE EXACT SUPPORT PAD SIZE AND EQUIPMENT MOUNTING REQUIREMENTS WITH ALL INVOLVED CONTRACTORS... 12. THE MECHANICAL CONTRACTOR SHALL NOTIFY THE OWNER OF ANY ADDITIONAL CHARGES TO EXTEND THE EQUIPMENT WARRANTY PERIOD AS NECESSARY.

DEMOLITION:

- 1. THE CONTRACTOR SHALL MAKE ALL PROVISIONS TO PROTECT THE PREMISES FROM DAMAGE DURING DEMOLITION WORK... 12. WHERE EXISTING PIPING, DUCTWORK, EQUIPMENT, CONDUIT, WIRE MOLD, ETC. HAVE BEEN REMOVED FROM WALLS, PATCH WALL AND PAINT TO NEAREST 'EYE BREAK' OR MASONRY UNIT.

IDENTIFICATION:

- 1. PROVIDE PLASTIC LAMINATE IDENTIFICATION LABELS ON ALL EQUIPMENT SCHEDULED ON THE DRAWINGS... 12. PROVIDE PLASTIC LAMINATE IDENTIFICATION LABELS ON ALL TEMPERATURE CONTROL COMPONENTS SUCH AS VALVE AND DAMPER ACTUATORS, CONTROL PANELS, TEMPERATURE SENSORS, HUMIDITY SENSORS, ETC.

TEMPERATURE CONTROL NOTES:

- 1. PROVIDE PROJECT SPECIFIC TEMPERATURE CONTROL SYSTEM MANUAL FOR THE PROJECT. THE MANUAL SHALL CONTAIN A DIAGRAM OF THE CONTROL SYSTEM ARCHITECTURE, WIRING DIAGRAMS... 12. THE MECHANICAL CONTRACTOR SHALL NOTIFY THE OWNER OF ANY ADDITIONAL CHARGES TO EXTEND THE EQUIPMENT WARRANTY PERIOD AS NECESSARY.

DUCTWORK - GENERAL:

- 1. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER THE LATEST VERSION OF THE S.M.A.C.N.A. H.V.A.C. CONSTRUCTION STANDARDS... 12. ALL DUCTWORK SHALL BE PROVIDED WITH SEISMIC RESTRAINTS IN ACCORDANCE WITH THE SEISMIC RESTRAINT MANUAL.

ENGINEERS/CONSULTANTS:

Table listing engineering and consulting firms: WOOLPERT, INC., SCI ENGINEERING, INC., FAIRVIEW HEIGHTS, IL, etc.



ARCHITECT: Chiodini ARCHITECTS. Architecture / Interior Design / Graphics. 1401 S. Brentwood Blvd. / Suite 075-10, Oak, Missouri 63144.

MECHANICAL LEGENDS AND NOTES

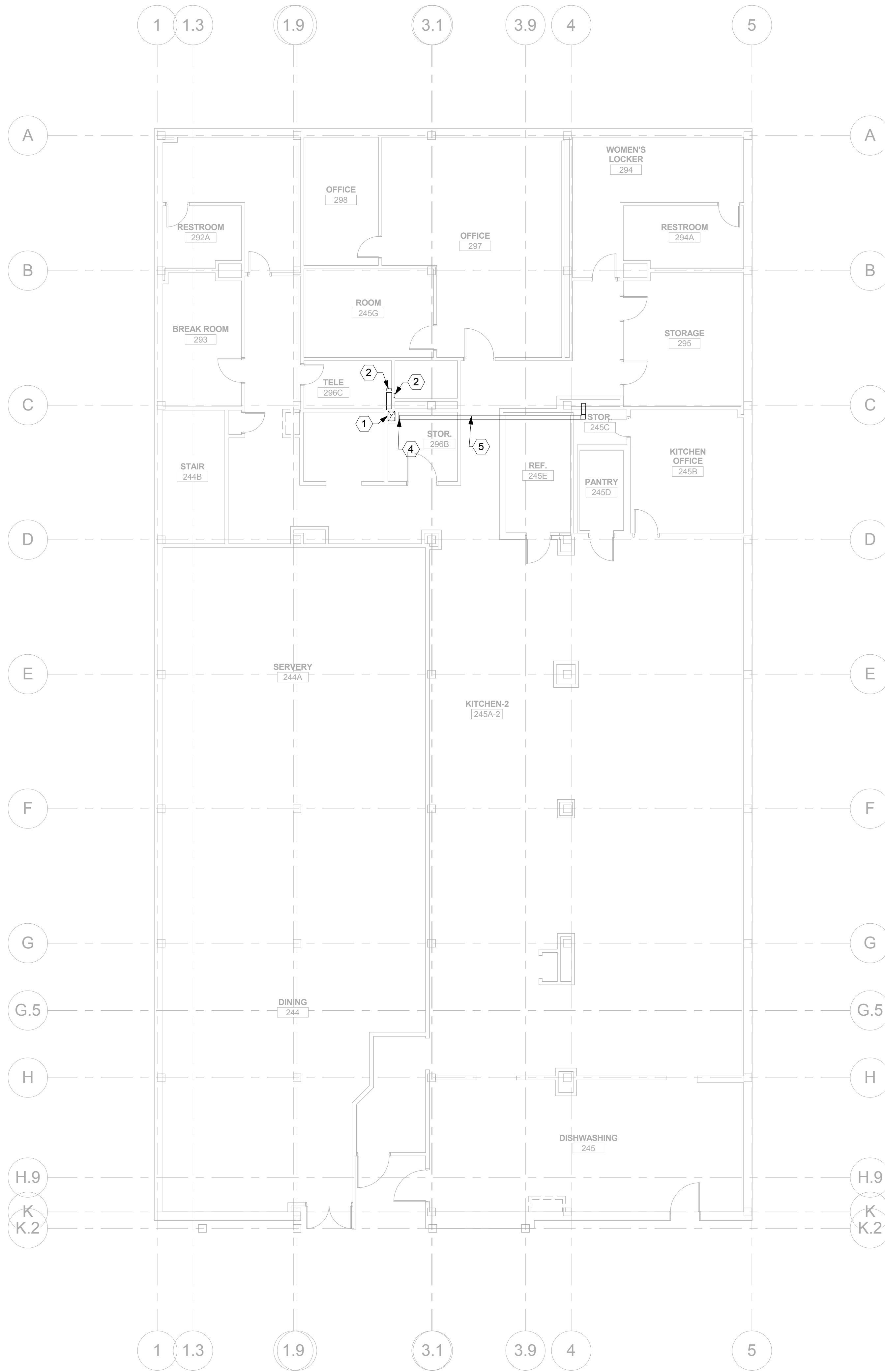
Approved: Project Director Approver. Drawing Title: MECHANICAL LEGENDS AND NOTES.

Table with project details: Project Title (VA HEALTH CARE SYSTEM), Project Number (438-16-104), Building Number (5), Drawing Number (M001), Date (2017.03.13), Checked (AWS), Drawn (MCB).

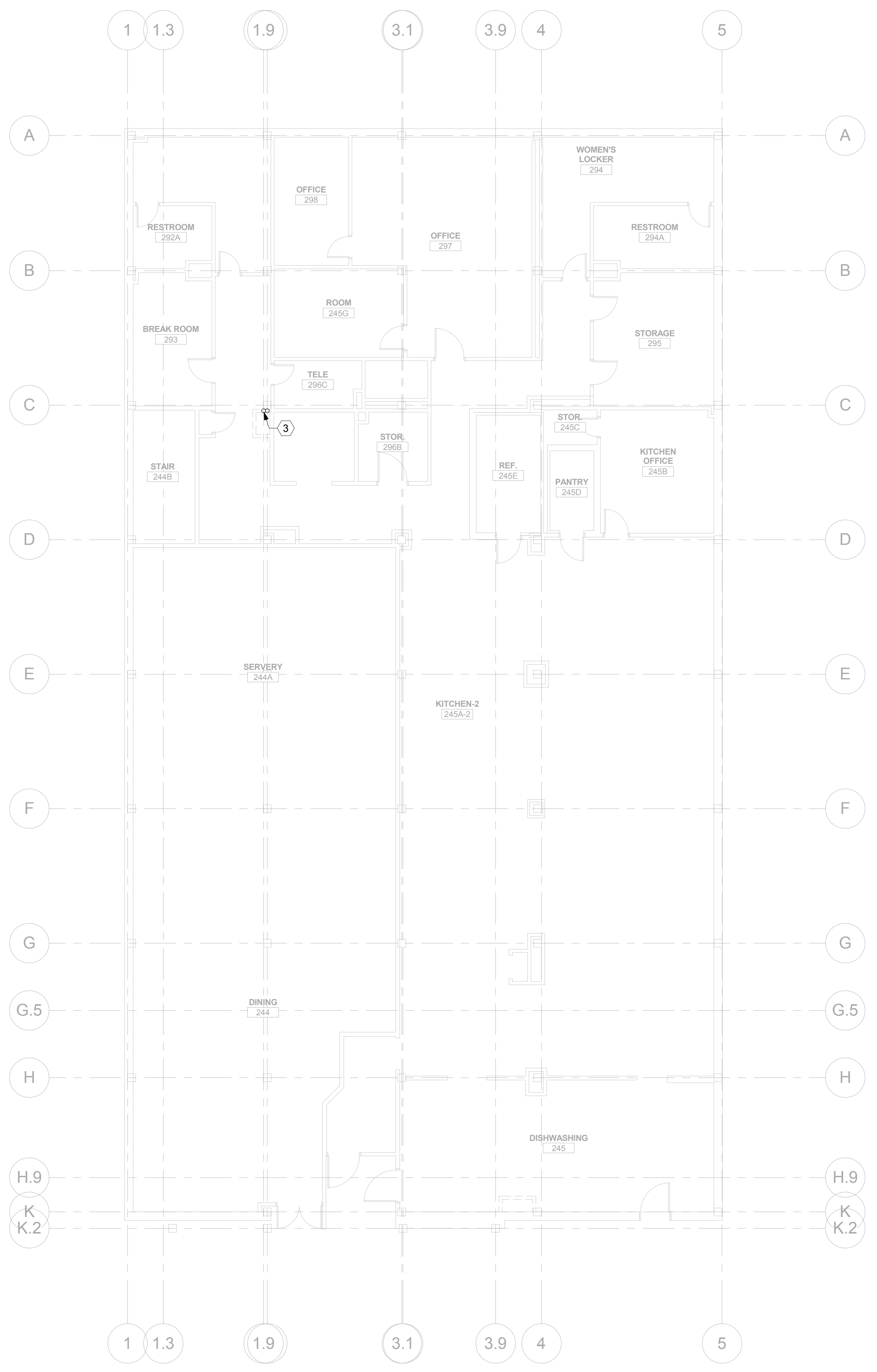


KEYED NOTES	
1	EXISTING EXHAUST DUCT MAIN DOWN FROM THIRD FLOOR TO REMAIN.
2	EXISTING EXHAUST GRILLES IN ROOM TO REMAIN.
3	EXISTING STEAM AND CONDENSATE RETURN IN VERTICAL CHASE. CHASE TO BE OPENED UP FOR CONNECTION OF NEW STEAM AND CONDENSATE RETURN PIPING. SEE SHEET M102.
4	DISCONNECT 6X4 EXHAUST DUCT BRANCH FROM MAIN IN CHASE. DUCT IS LOCATED ABOVE CEILING OF ROOM. CAP END OF ABANDONED DUCT RUN.
5	ABANDONED 6X4 EXHAUST DUCT ABOVE CEILING TO REMAIN.

GENERAL DEMO NOTES	
1.	REMOVE ALL ASSOCIATED CONTROLS, THERMOSTATS, CONDUIT, WIRING ASSOCIATED WITH THE HVAC SYSTEMS BEING DEMOLISHED. REMOVE ALL ABANDONED PNEUMATIC PIPING BACK TO THE DISTRIBUTION PANEL AND CAP AND SEAL ALL AS REQUIRED TO ALLOW EXISTING PNEUMATIC SYSTEM TO REMAIN OPERATIONAL.
2.	ALL REFRIGERANT SHALL BE RECLAIMED PER STATE AND FEDERAL CODES AND EPA REGULATIONS.
3.	PROVIDE TEMPORARY FILTER ELEMENTS OVER ACTIVE RETURN GRILLES OF THE PULMONARY WING TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE MAIN HVAC SYSTEM.
4.	CONSTRUCTION PHASING PLANS SHALL BE CLEARLY DOCUMENTED TO ALLOW THE RESPIRATORY WING TO BE ACTIVE FOR AS LONG AS POSSIBLE.



1 MECHANICAL HVAC SECOND FLOOR DEMO PLAN
1/8" = 1'-0"
0 4 8 16'



2 MECHANICAL PIPING SECOND FLOOR DEMO PLAN
1/8" = 1'-0"
0 4 8 16'

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FINAL SUBMITTAL FOR CONSTRUCTION	



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Drawing Title	MECHANICAL SECOND FLOOR DEMO PLAN
Approved: Project Director	Approver

Project Title	VA HEALTH CARE SYSTEM
Project Number	438-16-104 2016.052
Building Number	5
Drawing Number	MD102
Date	2017.03.13
Checked	AWS
Drawn	MCB

OWNER

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

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