



DEVELOPMENT APPLICATION

City of Rockwall
Planning and Zoning Department
385 S. Goliad Street
Rockwall, Texas 75087

STAFF USE ONLY

PLANNING & ZONING CASE NO. _____

NOTE: THE APPLICATION IS NOT CONSIDERED ACCEPTED BY THE CITY UNTIL THE PLANNING DIRECTOR AND CITY ENGINEER HAVE SIGNED BELOW.

DIRECTOR OF PLANNING: _____

CITY ENGINEER: _____

PLEASE CHECK THE APPROPRIATE BOX BELOW TO INDICATE THE TYPE OF DEVELOPMENT REQUEST [SELECT ONLY ONE BOX]:

PLATTING APPLICATION FEES:

- ☐ MASTER PLAT (\$100.00 + \$15.00 ACRE) ¹
- ☐ PRELIMINARY PLAT (\$200.00 + \$15.00 ACRE) ¹
- ☐ FINAL PLAT (\$300.00 + \$20.00 ACRE) ¹
- ☐ REPLAT (\$300.00 + \$20.00 ACRE) ¹
- ☐ AMENDING OR MINOR PLAT (\$150.00)
- ☐ PLAT REINSTATEMENT REQUEST (\$100.00)

SITE PLAN APPLICATION FEES:

- ☐ SITE PLAN (\$250.00 + \$20.00 ACRE) ¹
- ☒ AMENDED SITE PLAN/ELEVATIONS/LANDSCAPING PLAN (\$100.00)

ZONING APPLICATION FEES:

- ☐ ZONING CHANGE (\$200.00 + \$15.00 ACRE) ¹
- ☐ SPECIFIC USE PERMIT (\$200.00 + \$15.00 ACRE) ^{1&2}
- ☐ PD DEVELOPMENT PLANS (\$200.00 + \$15.00 ACRE) ¹

OTHER APPLICATION FEES:

- ☐ TREE REMOVAL (\$75.00)
- ☐ VARIANCE REQUEST/SPECIAL EXCEPTIONS (\$100.00) ²

NOTES:

¹: IN DETERMINING THE FEE, PLEASE USE THE EXACT ACREAGE WHEN MULTIPLYING BY THE PER ACRE AMOUNT. FOR REQUESTS ON LESS THAN ONE ACRE, ROUND UP TO ONE (1) ACRE.

²: A \$1,000.00 FEE WILL BE ADDED TO THE APPLICATION FEE FOR ANY REQUEST THAT INVOLVES CONSTRUCTION WITHOUT OR NOT IN COMPLIANCE TO AN APPROVED BUILDING PERMIT.

PROPERTY INFORMATION [PLEASE PRINT]

ADDRESS 2065 Kristy Ln

SUBDIVISION Bodin Industrial Tract

LOT

1-E0

BLOCK

GENERAL LOCATION

ZONING, SITE PLAN AND PLATTING INFORMATION [PLEASE PRINT]

CURRENT ZONING Industrial, Light Manufacturing

CURRENT USE F2

PROPOSED ZONING Industrial, Light manufacturing

PROPOSED USE F2

ACREAGE 1.0043

LOTS [CURRENT]

1

LOTS [PROPOSED]

1

☒ **SITE PLANS AND PLATS:** BY CHECKING THIS BOX YOU ACKNOWLEDGE THAT DUE TO THE PASSAGE OF HB3167 THE CITY NO LONGER HAS FLEXIBILITY WITH REGARD TO ITS APPROVAL PROCESS, AND FAILURE TO ADDRESS ANY OF STAFF'S COMMENTS BY THE DATE PROVIDED ON THE DEVELOPMENT CALENDAR WILL RESULT IN THE DENIAL OF YOUR CASE.

OWNER/APPLICANT/AGENT INFORMATION [PLEASE PRINT/CHECK THE PRIMARY CONTACT/ORIGINAL SIGNATURES ARE REQUIRED]

☐ OWNER JCH Redhawk LLC

☒ APPLICANT Independence Engineering

CONTACT PERSON

CONTACT PERSON

Gayla Davis

ADDRESS 2461 N Stemmons Fwy

ADDRESS

123 Farnsworth Ave

CITY, STATE & ZIP Dallas, TX 75207-2601

CITY, STATE & ZIP

Bordentown, NJ 08505

PHONE

PHONE

239-265-2818

E-MAIL

E-MAIL

gdavis@independence.engineering

NOTARY VERIFICATION [REQUIRED]

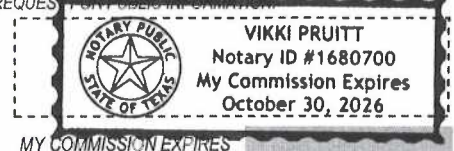
BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED Corby Hodgkiss [OWNER] THE UNDERSIGNED, WHO STATED THE INFORMATION ON THIS APPLICATION TO BE TRUE AND CERTIFIED THE FOLLOWING:

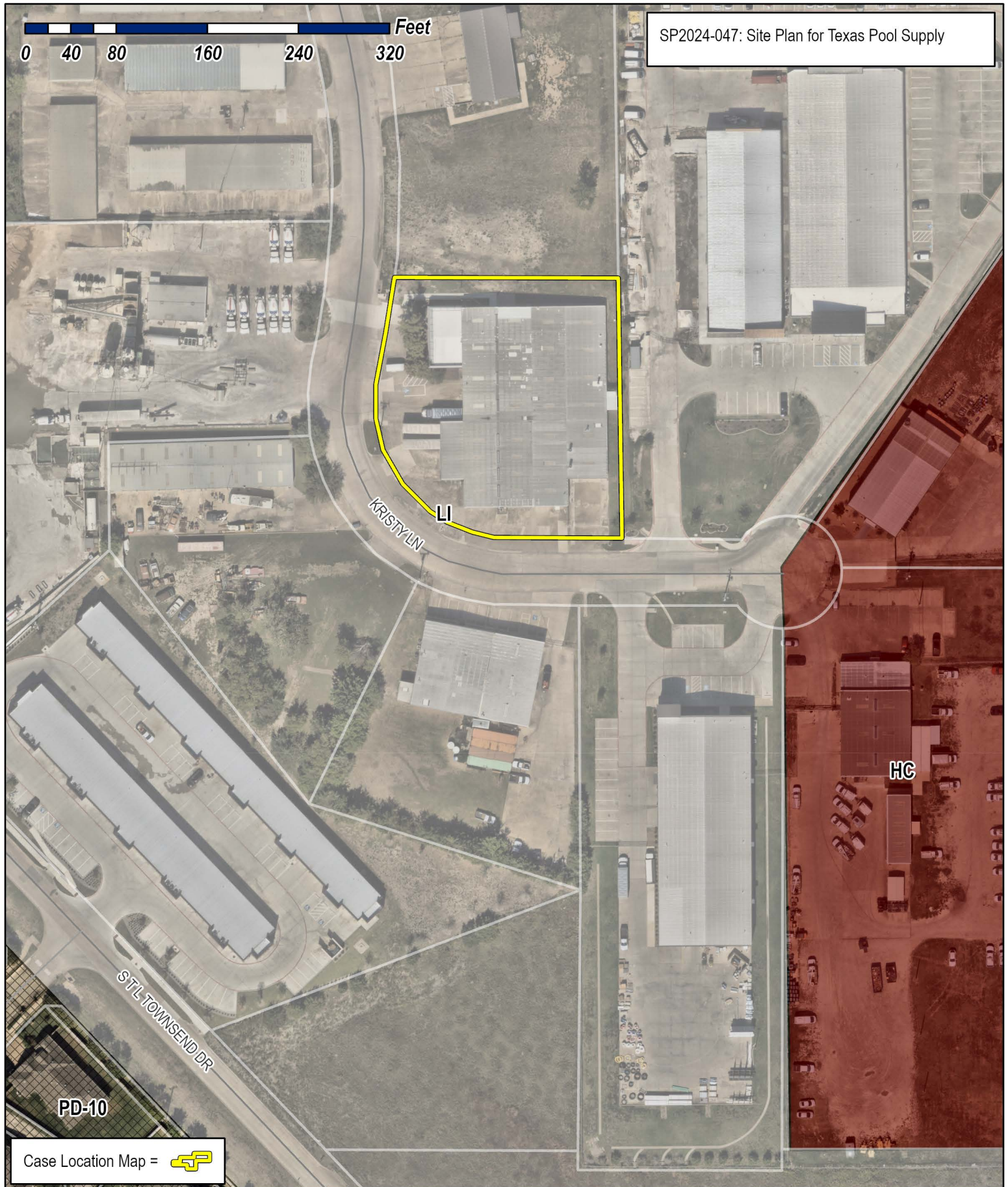
"I HEREBY CERTIFY THAT I AM THE OWNER FOR THE PURPOSE OF THIS APPLICATION; ALL INFORMATION SUBMITTED HEREIN IS TRUE AND CORRECT; AND THE APPLICATION FEE OF \$ 100.00 TO COVER THE COST OF THIS APPLICATION, HAS BEEN PAID TO THE CITY OF ROCKWALL ON THIS THE _____ DAY OF _____, 20____. BY SIGNING THIS APPLICATION, I AGREE THAT THE CITY OF ROCKWALL (I.E. "CITY") IS AUTHORIZED AND PERMITTED TO PROVIDE INFORMATION CONTAINED WITHIN THIS APPLICATION TO THE PUBLIC. THE CITY IS ALSO AUTHORIZED AND PERMITTED TO REPRODUCE ANY COPYRIGHTED INFORMATION SUBMITTED IN CONJUNCTION WITH THIS APPLICATION, IF SUCH REPRODUCTION IS ASSOCIATED OR IN RESPONSE TO A REQUEST FOR INFORMATION FROM THE CITY OF ROCKWALL."

GIVEN UNDER MY HAND AND SEAL OF OFFICE ON THIS THE 12 DAY OF November, 2024

OWNER'S SIGNATURE

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS





0 40 80 160 240 320 Feet


SP2024-047: Site Plan for Texas Pool Supply

KRISTY LN
LI

HC

STL TOWNSEND DR

PD-10

Case Location Map = 



City of Rockwall

Planning & Zoning Department
385 S. Goliad Street
Rockwall, Texas 75087
(P): (972) 771-7745
(W): www.rockwall.com

The City of Rockwall GIS maps are continually under development and therefore subject to change without notice. While we endeavor to provide timely and accurate information, we make no guarantees. The City of Rockwall makes no warranty, express or implied, including warranties of merchantability and fitness for a particular purpose. Use of the information is the sole responsibility of the user.





1777 SENTRY PARKWAY WEST, BUILDING 12, SUITE 103
BLUE BELL, PENNSYLVANIA 19422
(215) 798-4450

November 11, 2024

City of Rockwall
Planning and Zoning Commission
385 South Goliad Street
City of Rockwall, TX 75087

**Re: Texas Pool Supply
2065 Kristy Lane
Rockwall, TX 75087
Variance Request
IE Job #030-224**

Dear Sir or Madam,

On behalf of the applicant, SRS Distribution, Independence Engineering LLC (IE) is submitting a Variance Request to the Planning and Zoning Commission, to request the variances listed below to be applied to the proposed Texas Pool Supply in Rockwall, TX.

The existing Texas Pool Supply consists of 1.004 acres zoned Light Industrial (LI) and is located at 2065 Kristy Lane in the City of Rockwall. The subject property is bound by Kristy Lane on the west and south, a currently vacant property to the north, and Bacon Plumbing to the east. The property currently contains an approximately 22,625 sf warehouse with associated parking, loading, and storage. The site is mostly impervious with a narrow grass area along the east and north property lines. All runoff is directed towards Kristy Lane.

The applicant is proposing to build a 900-sf addition 900 on the southeast corner of the current warehouse, enclosing an existing concrete slab. The main entrance area on the northwest of the building, including parking, will be reconfigured to provide the required ADA parking spaces and the required ADA access to the building via a newly constructed ADA ramp. Additional parking spaces will be delineated with new paint along the west and south of the building.

The following variances are being requested from the City of Rockwall Unified Development Code:

Article 8, Paragraph 5.01(C) – Building and Paving within a Required Landscape Buffer

A variance from this section is required as the majority of the property along Kristy Lane is existing concrete that is not being removed and is therefore within the Required Landscape Buffer.

Article 8, Paragraph 5.02(A) – Loading Dock and Outside Storage Area Screening

A variance from this section is required to allow the existing loading docks to remain as is, without adding any landscape screening as the current property layout does not allow for any landscape screening to be installed.



1777 SENTRY PARKWAY WEST, BUILDING 12, SUITE 103
BLUE BELL, PENNSYLVANIA 19422
(215) 798-4450

Article 8, Paragraph 5.03(A) – Total Landscaping Requirements

A variance from this section is required as the current property layout does not allow for the minimum required landscape area percentages.

Per our pre-application meeting with the City of Rockwall on August 8, 2024, we are offering two (2) compensatory actions for each variance requested, for a total of six (6) actions:

1. Remove the existing bumpout on the east side of the building, encroaching on the adjacent property;
2. Remove the existing chain link fence on the east side of the property, also encroaching on the adjacent property;
3. The dumpster currently stored unenclosed outside the south side of the building will be relocated inside the building, and rolled outside for pickup;
4. The existing condenser unit on the south side of the building has been removed;
5. Additional landscaping has been proposed along the north side of the building; and
6. A vinyl fence has been proposed to screen the existing condenser on the north side of the building.

We believe this application is consistent with the requirements of the City of Rockwall. If you need anything else, or have any questions, please don't hesitate to call me at (609) 947-9787.

Sincerely,

Independence Engineering

A handwritten signature in blue ink that reads "Neil E. Sander". The signature is fluid and cursive, with the first name "Neil" and last name "Sander" clearly legible.

Neil E. Sander, President

Cc: John Arrowood, SRS
Lisa Francis, Randall Paulson

2065 KRISTY LN
ROCKWALL, TEXAS 75032

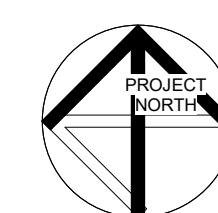
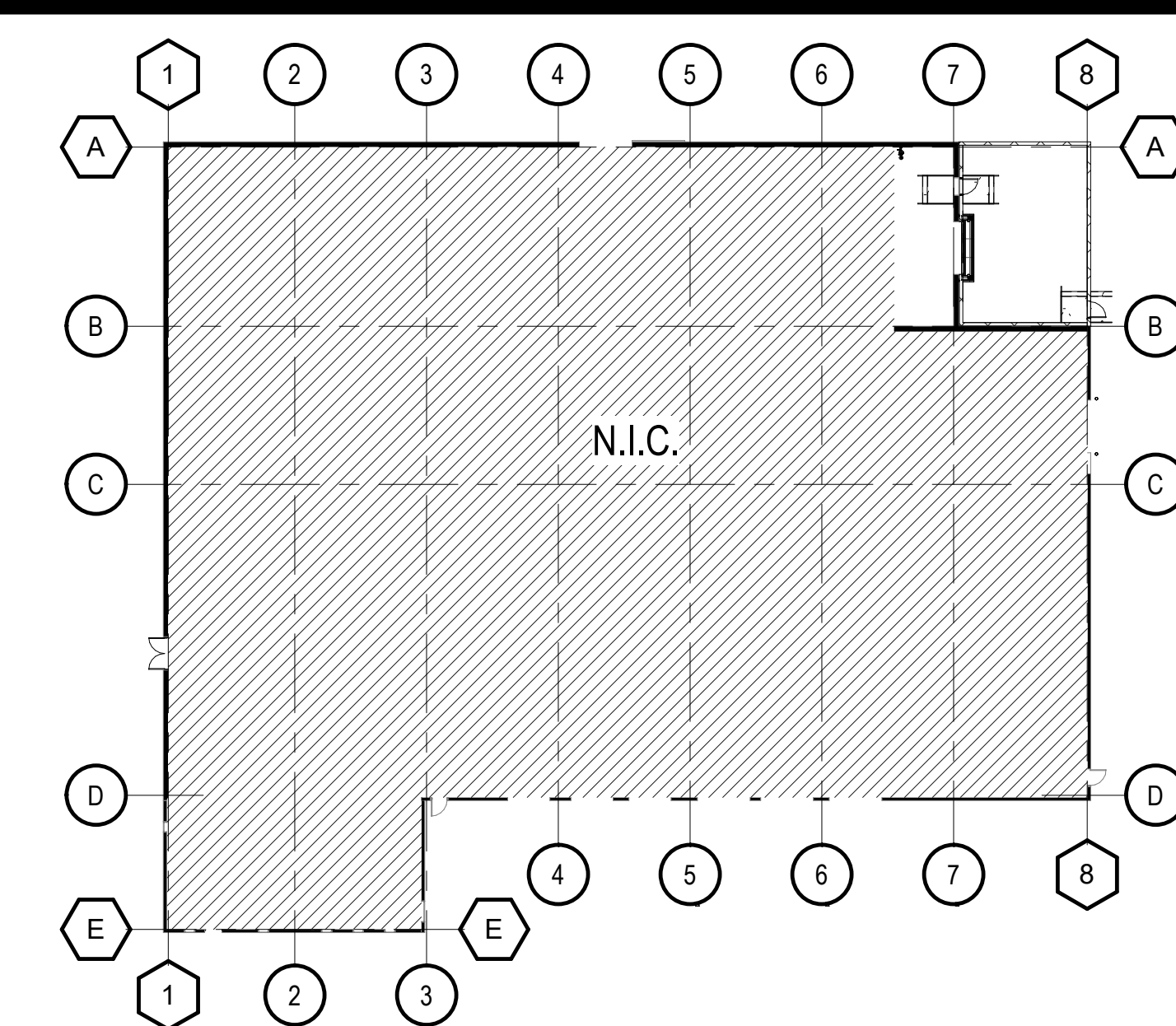
PROJECT DATA

OWNER:	SRS DISTRIBUTION, INC. 7440 STATE HIGHWAY 121 MCKINNEY, TX 75070-2196	JOHN ARROWOOD 469.646.7325	JOHN.ARROWOOD@SRSDISTRIBUTION.COM
CONTRACTOR:	TBD		
ARCHITECT: - POINT OF CONTACT - ARCHITECT OF RECORD	RANDALL-PAULSON ARCHITECTS LISA FRANCIS JOHN C. STANTZ, AIA HISTORIC ROSWELL MILL 85-A MILL STREET, SUITE 200 ROSWELL, GEORGIA 30075	770.650.7558	LFRANCIS@RANDALLPAULSON.COM JSTANTZ@RANDALLPAULSON.COM
STRUCTURAL ENGINEER:	HAINES GIPSON & ASSOCIATES 1550 N. BROWN ROAD SUITE 145 LAWRENCEVILLE, GA 30043	JEFF VANDIVER 770.491.7550	JVANDIVER@HAINESGIPSON.COM
MECHANICAL ENGINEER:	BARRETT WOODYARD & ASSOCIATES 3495 HOLCOMB BRIDGE RD NORCROSS, GEORGIA 30092	CHRIS LYLES 404.434.1237	CLYLES@BARRETTWOODYARD.COM
ELECTRICAL ENGINEER:	BARRETT WOODYARD & ASSOCIATES 3495 HOLCOMB BRIDGE RD NORCROSS, GEORGIA 30092	CHRIS LYLES 404.434.1237	CLYLES@BARRETTWOODYARD.COM
PLUMBING ENGINEER:	BARRETT WOODYARD & ASSOCIATES 3495 HOLCOMB BRIDGE RD NORCROSS, GEORGIA 30092	CHRIS LYLES 404.434.1237	CLYLES@BARRETTWOODYARD.COM

<u>ARCHITECTURAL:</u>		<u>STRUCTURAL:</u>	
A-001	COVER SHEET	S0.1	GENERAL NOTES
A-002	GENERAL NOTES, SYMBOLS, ABBREVIATIONS, & COMCHECK	S1.1	GRADE BEAM PLAN & DETAILS
A-080	DEMOLITION PLAN	S1.2	STORAGE ROOM PLAN & DETAILS
A-090	LIFE SAFETY PLAN	S2.1	SECTIONS & DETAILS
A-100	BUILDING PLAN	S2.2	SECTIONS & DETAILS
A-200	BUILDING ELEVATIONS	S2.3	GRADE BEAM & SLAB SCHEDULES
A-201	H-ROOM DETAILS		
A-601	DOOR SCHEDULE & NOTES		
<u>MECHANICAL:</u>		<u>MECHANICAL:</u>	
M-001	MECHANICAL LEGEND, ABBREVIATIONS, DETAILS, SCHEDULES	M-001	MECHANICAL LEGEND, ABBREVIATIONS, DETAILS, SCHEDULES
M-002	MECHANICAL SPECIFICATIONS	M-002	MECHANICAL SPECIFICATIONS
M-003	MECHANICAL SPECIFICATIONS	M-003	MECHANICAL SPECIFICATIONS
M-101	MECHANICAL PLAN - OVERALL	M-101	MECHANICAL PLAN - OVERALL
M-102	MECHANICAL PLAN - H ROOM	M-102	MECHANICAL PLAN - H ROOM
<u>ELECTRICAL:</u>		<u>ELECTRICAL:</u>	
E-001	ELECTRICAL LEGEND, NOTES, & DETAILS	E-001	ELECTRICAL LEGEND, NOTES, & DETAILS
E-002	PENETRATION DETAILS	E-002	PENETRATION DETAILS
E-003	ELECTRICAL RISER DIAGRAM & PANEL SCHEDULES	E-003	ELECTRICAL RISER DIAGRAM & PANEL SCHEDULES
E-004	ELECTRICAL SPECIFICATIONS	E-004	ELECTRICAL SPECIFICATIONS
E-005	ELECTRICAL SPECIFICATIONS	E-005	ELECTRICAL SPECIFICATIONS
E-100	FLOOR PLAN - ELECTRICAL	E-100	FLOOR PLAN - ELECTRICAL
<u>PLUMBING:</u>		<u>PLUMBING:</u>	
P-001	PLUMBING LEGEND, ABBREVIATIONS, DETAILS, SCHEDULES	P-001	PLUMBING LEGEND, ABBREVIATIONS, DETAILS, SCHEDULES
P-002	PLUMBING SPECIFICATIONS	P-002	PLUMBING SPECIFICATIONS
P-003	PLUMBING SPECIFICATIONS	P-003	PLUMBING SPECIFICATIONS
P-101	PLUMBING PLAN - OVERALL	P-101	PLUMBING PLAN - OVERALL
P-102	PLUMBING PLAN - H ROOM	P-102	PLUMBING PLAN - H ROOM
<u>FIRE ALARM:</u>		<u>FIRE ALARM:</u>	
FA-001	FIRE ALARM LEGEND, NOTES, & DETAILS	FA-001	FIRE ALARM LEGEND, NOTES, & DETAILS
FA-002	FIRE ALARM SPECIFICATIONS	FA-002	FIRE ALARM SPECIFICATIONS
FA-100	FLOOR PLAN - FIRE ALARM	FA-100	FLOOR PLAN - FIRE ALARM

NAME OF DEVELOPER:	SRS DISTRIBUTION, INC. - ROCKWALL, TEXAS (H-RM)
PROJECT ADDRESS:	2065 KRISTY LN. ROCKWALL, TEXAS 75032
ARCHITECT:	JOHN C. STANTZ, AIA PHONE #: 770.650.7558 STATE REGIS. #: 27618
A: SCOPE OF WORK:	HAZARD ROOM TO BE ADDED TO THE EXISTING BUILDING.
B: OCCUPANCY CLASSIFICATION:	STORAGE (S-1), BUSINESS (B), MERCANTILE (M), HIGH HAZARD (H-3/H-4)
C: TYPE OF CONSTRUCTION:	II-B
D: SPRINKLERED:	YES
E: SEISMIC RISK CATEGORY:	II
F: SEISMIC DESIGN CATEGORY:	C
G: TOTAL BUILDING AREA IN SQUARE FEET: ±	TENANT BUILD-OUT WAREHOUSE AREA IN SQUARE FEET: ± 20,981 TENANT BUILD-OUT INTERIOR OFFICE AREA IN SQUARE FEET: ± 1,572 TOTAL TENANT BUILD-OUT AREA IN SQUARE FEET: ± 23,236
H: BUILDING HEIGHT IN FEET:	
I: NUMBER OF STORIES:	1 , INCLUDES -- BASEMENT: N/A MEZZANINE: N/A
J: PERMIT APPLIED FOR:	BUILDING PERMIT
K: CALCULATED LOAD FOR OCCUPANCY:	WAREHOUSE: ± (20,981) SF/ 500 = (44) OCCUPANTS EXISTING TO... OFFICE: ± (1,090) SF/ 150 = (8) OCCUPANTS EXISTING TO REMAIN MERCANTILE: ± (482) SF/ 60 = (8) OCCUPANTS EXISTING TO REMAIN HIGH HAZARD: ± (875) SF/ 500 = (2) OCCUPANTS
L: ALL BUILDINGS DESCRIBED IN THESE PLANS SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE TEXAS STATE CODES AS LISTED BELOW:	
	BUILDING - INTERNATIONAL BUILDING CODE, 2021 EDITION, WITH CURRENT STATE AMENDMENT
	PLUMBING - INTERNATIONAL PLUMBING CODE, 2021 EDITION, WITH CURRENT STATE AMENDMENT
	MECHANICAL - INTERNATIONAL MECHANICAL CODE, 2021 EDITION, WITH CURRENT STATE AMENDMENT
	GAS - INTERNATIONAL FUEL AND GAS CODE, 2021 EDITION, WITH CURRENT STATE AMENDMENT
	ENERGY - INTERNATIONAL ENERGY CONSERVATION CODE, 2021 EDITION, WITH CURRENT STATE SUPPLEMENTS AND AMENDMENT
	FIRE - INTERNATIONAL FIRE CODE, 2021 EDITION, WITH CURRENT STATE AMENDMENT
	ELECTRICAL - NATIONAL ELECTRICAL CODE, 2020 EDITION, WITH CURRENT STATE AMENDMENT
	THE INTERNATIONAL EXISTING BUILDING CODE, 2021 EDITION, WITH CURRENT STATE AMENDMENT
	LIFE SAFETY - NFPA 101 LIFE SAFETY CODE, 2021 EDITION, WITH CURRENT STATE AMENDMENT
	ICC A117.1 ACCESSIBILITY STANDARDS
	EXISTING BUILDING - INTERNATIONAL BUILDING CODE, 2021 EDITION, WITH CURRENT STATE AMENDMENT
	SEE SHEET A-090 FOR ADDITIONAL CODE INFORMATION

REFERENCE PLAN

[illegible]

RANDALL
PAULSON
architects
Roswell • Nashua



Roswell Mill
85-A Mill Street, Suite 200
Roswell, Georgia 30075
770.650.7558
www.randallpaulson.com

architecture/interiors

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A TENANT ADDITION

at
SRS
DISTRIBUTION,
INC. -
ROCKWALL,
TEXAS
(H-ROOM)
for



2065 KRISTY LN
ROCKWALL, TEXAS 75032

[illegible][illegible]

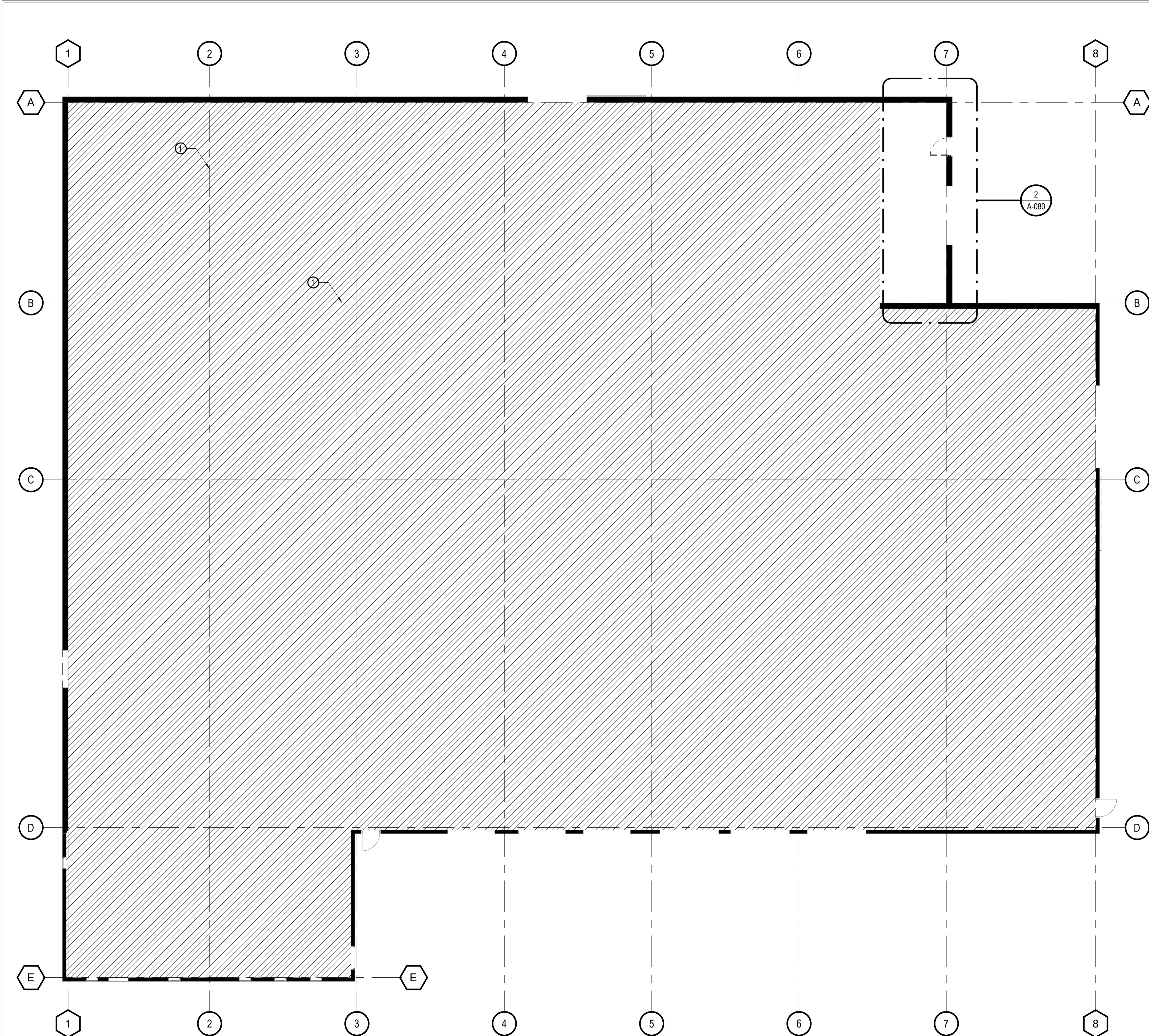
Date	Project No.
14 OCTOBER 2024	2023362.00
Sheet Title	
COVER SHEET	

Sheet No. **A-001**

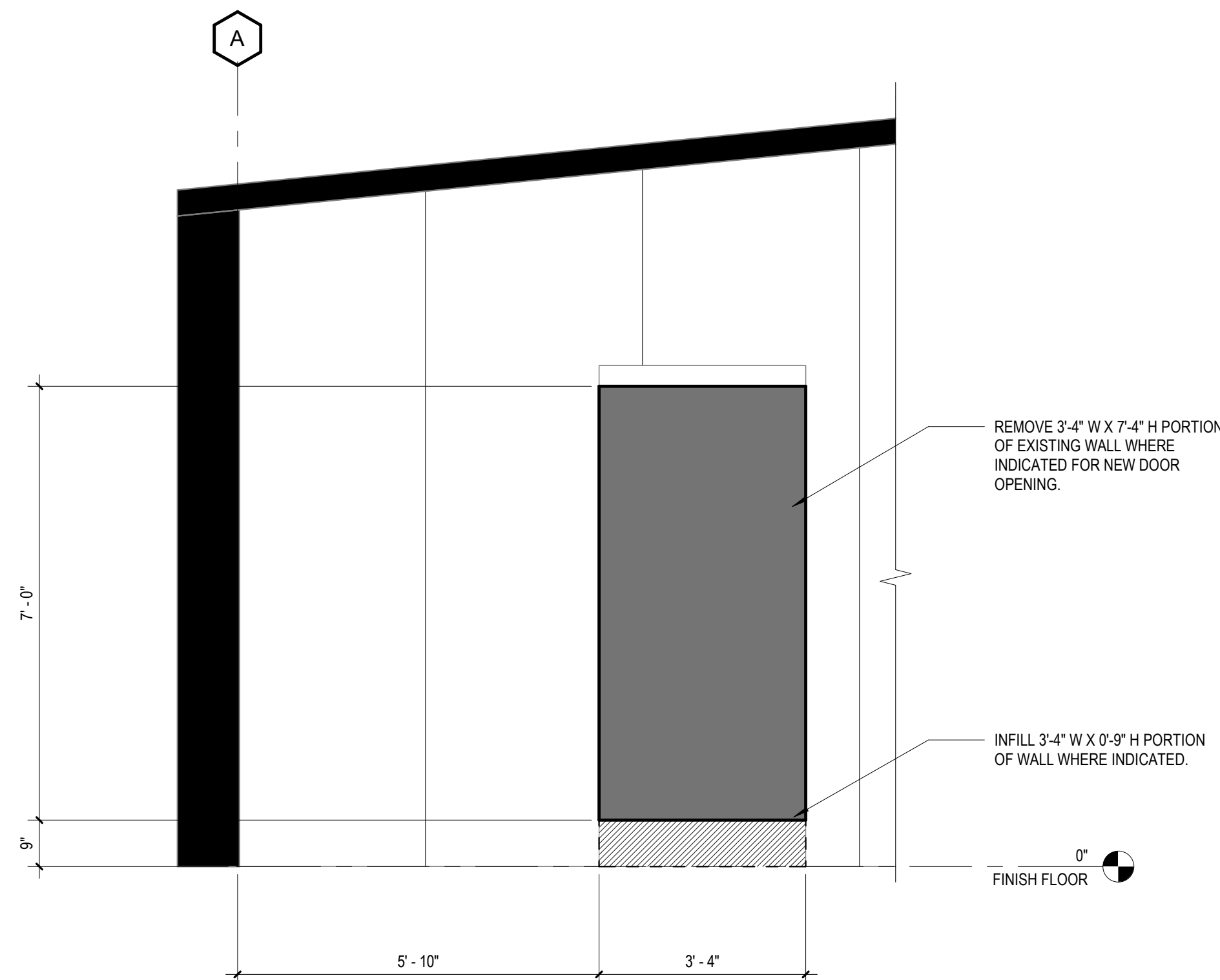
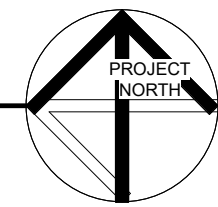
☒ Released for Construction
☐ Not Released for Construction

ABBREVIATIONS

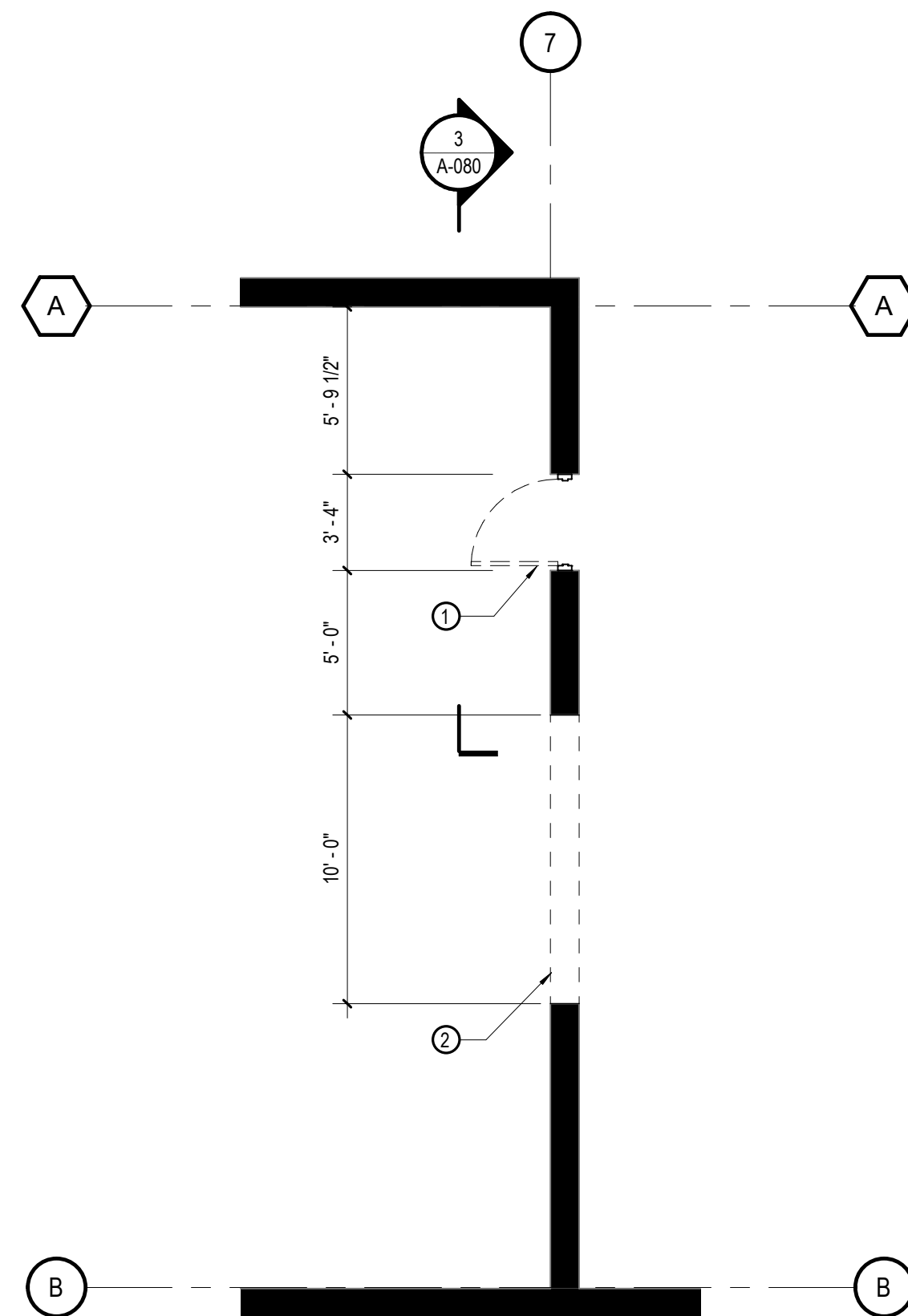
A	
@	AT
AB	ANCHOR BOLT
ABV	ABOVE
AC	ABOVE CEILING
ACI	AMERICAN CONCRETE INSTITUTE
ACT	ACOUSTICAL CEILING TILE
AD	ACCESS DOOR
ADA	AMERICAN DISABILITIES ACT
ADMIN	ADMINISTRATIVE
AF	ACCESS FLOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL
	CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS
	INSTITUTE
AP	ACCESS PANEL
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL / ARCHITECT
ASHRAE	AMERICAN SOCIETY HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AUX	AUXILIARY
B	
B	BOILER
B/O	BOTTOM OF
BB	BULLETIN BOARD
BD	BOARD
BFF	BELOW FINISHED FLOOR
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BOS	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNIT
C	
C	CONDUIT
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLOS	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CASED OPENING, CLEANOUT
COL	COLUMN
COMP	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATION
CONF	CONFERENCE
CONN	CONNECTION
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET
CRT	CIRCUIT
CT	CERAMIC TILE
CU	CUBIC
CW	COLD WATER
D	
D	DRAIN
DW	DISHWASHER
DBL	DOUBLE
DIA	DIAMETER
DIV	DIVISION
DN	DOWN
DOE	DEPARTMENT OF ENERGY
DS	DOWNSPOUT
DW	DOMESTIC WATER
DWG(S)	DRAWING(S)
DWLS	DOWELS
E	
EA	EACH
EF	EXHAUST FAN
EFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
ELEV, EL	ELEVATION
EMS	ENERGY MANAGEMENT SYSTEM
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
	EXISTING OVERHEAD ELECTRICAL
EPS	EXTERIOR PAINT SYSTEM
EQ	EQUAL
EQUIP	EQUIPMENT
ESFR	EARLY SUPPRESSION FAST RESPONSE
ESP	EXTERNAL STATIC PRESSURE
EW	ELECTRIC WATER COOLER
EWV	ELECTRIC WATER HEATER
EXIST	EXISTING
EXP	EXPANSION
EXPO	EXPOSED
EXT	EXTERIOR
F	
F	FAHRENHEIT
FA	FIRE ALARM
FAP	FIRE ALARM PANEL
FC	FOOT CANDLES
FD	FLOOR DRAIN, FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FN	FINISH
FM	FACTORY MUTUAL
FOLD PART	FOLDING PARTITION
FP	FIRE PROTECTION
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET
G	
G	GAS
GA	GAUGE
GALV	GALVANIZED
GEN	GENERATOR
GFI	GROUND FAULT (CURRENT) INTERRUPTER
GL	GLASS, GLAZING
G (Continued...)	
GND	GROUND
GWB	GYPSPUM WALLBOARD
H	
HB	HOSE BIBB
HC	HANDICAPPED
HD	HUB DRAIN
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HW	HOT WATER
HWH	HOT WATER HEATER
HZ	HERTZ
I	
IM	ICE MAKER
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIMENSION
IE	INVERT ELEVATION
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
IFC	INTERNATIONAL FIRE CODE
IMC	INTERNATIONAL MECHANICAL CODE
IN	INCH(ES)
INSUL	INSULATION, INSULATING
INV	INVERT
IPC	INTERNATIONAL PLUMBING CODE
J	
JAN	JANITOR
JB	JOIST BEARING
J-BOX	JUNCTION BOX
JST	JOIST
JT	JOINT
K	
KO	KNOCK OUT
KOP	KNOCK OUT PANEL
KV	KILOVOLTS
KVA	KILOVOLT AMPS
KW	KILOWATT
L	
LAM	LAMINATE
LAU	LAUNDRY
LAV	LAVATORY
LB(S)	POUND(S)
LD BRG	LOAD-BEARING
LF	LINEAR FEET
LG	LARGE
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LIB	LIBRARY
LN	LINE
LOCK	LOCKER
LSP	LIFE SAFETY PLAN
LT	LEFT
LVR	LOUVER
LVT	LUXURY VINYL TILE
M	
MW	MICROWAVE
MAINT	MAINTENANCE
MATL	MATERIAL
MAU	MAKEUP AIR UNIT
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFL	MAXIMUM FORESEEABLE LOSS
MFR(S)	MANUFACTURER(S)
MGR	MANAGER
MH	MANHOLE
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
MO	MASONRY OPENING
MOD	MOTOR OPERATED DOOR
MPH	MILES PER HOUR
MT(D)	MOUNTED
MTL	METAL
N	
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NEG	NEGATIVE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFVH	NOT-FREEZE WALL HYDRANT
NIC	NOT IN CONTRACT
NO#	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O	
OA	OVERALL
OC	ON CENTER
OCC	OCCUPANT
OD	OUTSIDE DIMENSION
OFF	OFFICE
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
P	
PA	PUBLIC ADDRESS
PAR	PARALLEL
PERP	PERPENDICULAR
PIV	POST INDICATOR VALVE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
POS	POSITIVE
PR	PAIR
PREFAB	PREFABRICATED
PREFIN, PF	PREFINISHED
PRI	PRIMARY
PROV	PROVIDED
PRV	PRESSURE REDUCTION VALVE
PSF	POUND-FORCE PER SQUARE FOOT
P (Continued...)	
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATMENT, PORCELAN TILE
PTD	PAINTED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
Q	
QA	QUALITY ASSURANCE
QC	QUALITY CONTROL
QT	QUARRY TILE
QTY	QUANTITY
R	
R	RADIUS
RA	RETURN AIR
RB	RUBBER BASE, RESILIENT BASE
RCP	REINFORCED CONCRETE PIPE
RCPTN	RECEPTION
RD	ROOF DRAIN
REF	REFRIGERATOR
REG	REGISTRATION, REGISTER
RENF	REINFORCE(D)
REQD	REQUIRED
RFG	ROOFING
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RR	RESTROOM
ROW	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RR	RESTROOM
RT	RIGHT
RTF	RUBBER TILE FLOOR
RTU	ROOF TOP UNIT
S	
SA	SUPPLY AIR
SAN	SANITARY
SC	SHADING COEFFICIENT
SCHED	SCHEDULE
SD	STORM DRAIN
SEC	SECONDARY
SEP	SEPARATE
SGL	SINGLE
SHGH	SOLAR HEAT GAIN COEFFICIENT
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SM	SMALL
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SO	SQUARE
SS	SANITARY SEWER LINE, SERVICE SINK, STANDING SEAM, STAINLESS STEEL
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STL, JST	STEEL JOIST
STOR	STORAGE
STRUCT	STRUCTURAL
SVT	STATIC DISSIPATIVE TILE
T	
T/O	TOP OF
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPERATURE
TF	TOP OF FINISHED FLOOR
THRESH	THRESHOLD
THRU	THROUGH
TI	TENANT IMPROVEMENT
TLT	TOILET
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TP	TOILET PARTITION
TR	TRANSITION STRIP
TRTD	TREATED
TSTAT	THERMOSTAT
TYP	TYPICAL
U	
UIS	UNDERSIDE
UBC	UNIFORM BUILDING CODE
UFC	UNIFORM FIRE CODE
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UMC	UNIFORM MECHANICAL CODE
UNO	UNLESS NOTED OTHERWISE
UPC	UNIFORM PLUMBING CODE
UTIL	UTILITY
V	
V	VOLTS, VENT
VA	VOLTAMPS
VAR	VARIATION
VCT	VINYL COMPOSITION TILE
VEND	VENDING
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	
W	WATER
WI	WITH
WH	WATER HEATER
WIO	WITHOUT
WC	WATER CLOSET, WALL COVERING
WCO	WALL CLEANOUT
WO	WOOD
WHSE	WAREHOUSE
WM	WOMEN
WP	WEATHERPROOF
WT	WALL TILE
Y	
YD	YARD



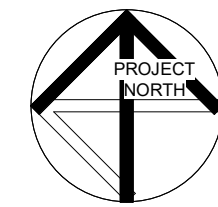
1
A-080
3/32" = 1'-0"



3
A-080
1/2" = 1'-0"



2
A-080
3/16" = 1'-0"



DEMOLITION LEGEND:	
	EXISTING PARTITION TO REMAIN
	DEMOLISHED PARTITION

DEMOLITION KEY NOTES	
①	REMOVE 3'-4" W X 7'-4" H PORTION OF EXISTING WALL WHERE INDICATED FOR NEW DOOR OPENING.
②	REMOVE 10'-0" W X 10'-0" H PORTION OF EXISTING WALL WHERE INDICATED FOR NEW OVERHEAD DOOR OPENING.

DEMOLITION PLAN GENERAL NOTES	
1.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL REQUIRED PERMITS, INSPECTION CERTIFICATES, ETC. FOR THE SCOPE OF THE WORK.
2.	ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PREVAILING EDITIONS OF ALL APPLICABLE STATE AND LOCAL CODES.
3.	DEMOLITION PLANS SHOW APPROXIMATE LAYOUT OF THE EXISTING BUILDING AND ARE NOT INTENDED TO REPRESENT PRECISE "AS-BUILT" CONDITIONS. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VISIT THE PROJECT SITE AND BECOME FAMILIAR WITH ALL JOB CONDITIONS, INCLUDING EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL WORK.
4.	VISITS TO THE SITE DURING THE BID PHASE SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING CONSTRUCTION AND SHALL VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS BEFORE ANY NEW CONSTRUCTION OF PARTITIONS OR WALLS IS COMMENCED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AT ONCE.
5.	SHOULD THE CONTRACTOR ENCOUNTER CONDITIONS AT THE SITE MATERIALLY DIFFERING FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY GIVE NOTICE TO THE OWNER'S REPRESENTATIVE OF SAID CONDITIONS BEFORE THEY ARE DISTURBED.
6.	THE CONTRACTOR SHALL CEASE OPERATIONS IMMEDIATELY IF HAZARDOUS OR CONTAMINATED MATERIALS SUCH AS ASBESTOS OR POLYCHLORINATED BIPHENYL (PCB), NOT PREVIOUSLY RENDERED HARMLESS, ARE ENCOUNTERED. CONTACT ARCHITECT AND OWNER IN WRITING. DO NOT RESUME OPERATIONS UNTIL DIRECTED. HAZARDOUS OR CONTAMINATED MATERIALS HAVE BEEN RENDERED HARMLESS, AND CONDITIONS ARE AGREED TO BY OWNER AND CONTRACTOR IN WRITING.
7.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL TRADES. THIS INCLUDES SCHEDULING OF ALL WORK TO BE PERFORMED, COORDINATION OF ALL CUTTING, FITTING, PATCHING AND REPAIRING AS REQUIRED, ETC.
8.	THE OWNER AND AFFECTED TENANT SHALL BE NOTIFIED PRIOR TO SHUTDOWN OF ANY SHARED MECHANICAL, PLUMBING AND/OR ELECTRICAL SYSTEMS.
9.	THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT THE BUILDING OCCUPANTS, MATERIALS AND EXISTING FINISHES THROUGHOUT THE DURATION OF THE WORK. INSIDE AND OUTSIDE THE SCOPED AREA, BARRIERS TO CONTROL NOISE, DUST, AND SECURITY BETWEEN CONSTRUCTION AREAS AND OCCUPIED AREAS OR PUBLIC AREAS SHALL BE ERRECTED AND MAINTAINED BY THE CONTRACTOR.
10.	THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING AS REQUIRED FOR TEMPORARY SUPPORT OF ALL WORK TO BE PERFORMED. THE SHORING AND BRACING SHALL PREVENT MOVEMENT, SETTLEMENT, AND/OR COLLAPSE OF STRUCTURE OR ELEMENT SHOWN TO REMAIN. IF REQUIRED, SHORING AND BRACING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE LOCAL JURISDICTION.
11.	EXISTING CONSTRUCTION SHOWN TO REMAIN INCLUDING BUT NOT LIMITED TO WALLS, PARTITIONS, DOORS, FRAMES, CONSTRUCTION AND MATERIALS BEYOND THE SCOPED AREA ETC. SHALL BE PROTECTED FROM WEATHER AND OTHER DAMAGE DURING CONSTRUCTION ACTIVITIES. DAMAGE TO EXISTING CONSTRUCTION SHOWN TO REMAIN SHALL BE RESTORED TO MATCH PRE-DAMAGED ADJACENT CONDITION AT NO ADDITIONAL COST TO OWNER.
12.	EXISTING ITEMS OR MATERIAL TO BE SALVAGED SHALL EITHER BE CAREFULLY REMOVED, CLEANED AND STORED AT A LOCATION PROVIDED BY THE OWNER OR SHALL BE CAREFULLY REMOVED, CLEANED, TEMPORARILY STORED AND RE-USED AS SHOWN ON DRAWINGS. CONTRACTOR SHALL MAINTAIN AND PROVIDE TO OWNER A LIST OF ALL REMOVED AND SALVAGED ITEMS AT THE COMPLETION OF DEMOLITION WORK. SALVAGE EXISTING RATED DOORS, WINDOWS AND FRAMES TO MAINTAIN RATINGS FOR RE-USE.
13.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATION OF MATERIAL WITHOUT PERMANENT DAMAGE OR MARRING. NEW MATERIAL SHALL BE SUBSTITUTED FOR EXISTING MATERIAL THE CONTRACTOR IS UNABLE TO PROTECT FROM PERMANENT DAMAGE OR MARRING.
14.	EXISTING UTILITIES OR OTHER MECHANICAL, ELECTRICAL OR PLUMBING EQUIPMENT REQUIRING REMOVAL, CAPPING, TERMINATION, AND/OR RELOCATION SHALL BE INCLUDED IN THE OVERALL SCOPE AND PERFORMANCE OF THE PROJECT BY THE CONTRACTOR.
15.	THE CONTRACTOR SHALL PROTECT AND SHALL NOT DISCONNECT ALL EXISTING FIRE ALARM DEVICES, SMOKE ALARMS, SPRINKLER HEADS, EXIT SIGNS, ASSOCIATED WIRING, AND OTHER LIFE SAFETY DEVICES IN OPERATION. RELOCATE AS REQUIRED IN NEW PLAN.
16.	EXISTING CONCRETE FLOOR SLABS, MASONRY WALLS AND EXISTING STRUCTURAL FRAMING SYSTEMS SHOWN TO BE REMOVED SHALL BE CLEANLY SAWCUT FROM EXISTING CONSTRUCTION. COMPLETELY REMOVE FOOTINGS, FOUNDATIONS AND ABOVEGROUND AND UNDERGROUND CONSTRUCTION AS INDICATED ON DRAWINGS.
17.	EXISTING EXTERIOR WALL INSULATION SHALL BE LEFT IN PLACE OR SHALL BE REPLACED WITH NEW MATERIAL OF EQUAL INSULATING VALUE.
18.	WHERE FINISHES ARE SHOWN TO BE REMOVED FROM EXISTING CONSTRUCTION, REPAIR AND PATCH REMAINING SUBSTRATES AND PREPARE FOR NEW FINISH. CAREFULLY REPAIR AND PATCH ALL REMAINING SUBSTRATES THAT WERE ORIGINALLY CONCEALED BY EXISTING FINISHES, BUT WILL NOW BE EXPOSED IN THE NEW CONSTRUCTION.
19.	ALL INFILL OR REPLACEMENT WORK IS TO MATCH EXISTING CONDITIONS IN MATERIALS, CONSTRUCTION, RATING AND FINISH, UNLESS SPECIFICALLY NOTED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
20.	EXISTING CONDITIONS DISTURBED BY NEW WORK MUST BE RESTORED WITH SIMILAR NEW MATERIAL TO A CLEAN NEW CONDITION. ALL NEW MATERIALS SHALL MATCH EXISTING UNLESS OTHERWISE NOTED.
21.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEBRIS REMOVAL. DO NOT ALLOW DEBRIS TO ACCUMULATE. ALL AREAS TO BE LEFT CLEAN DAILY. WASH AND CLEAN ALL WORK AFFECTED BY CONSTRUCTION AT COMPLETION OF PROJECT. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH TENANT AND SHALL VERIFY ALL TENANT REQUESTS WITH OWNERS REPRESENTATIVE PRIOR TO PERFORMING SUCH REQUESTS.
22.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF IRREGULARITIES IN FLOOR FINISH AND/OR ELEVATION THAT BECOME APPARENT DUE TO DEMOLITION.
23.	REMOVE AND REPLACE BROKEN CEILING TILES, TYP.
24.	REMOVE ALL OBSOLETE PLUMBING, MECHANICAL AND ELECTRICAL EQUIPMENT IN THEIR ENTIRETY THROUGHOUT TENANT SPACE AND ON THE ROOF. PARTICULARLY WHERE EXISTING ITEMS WILL INTERFERE WITH THE INSTALLATION OF NEW CONSTRUCTION OR WHERE EXISTING ITEMS WILL BE EXPOSED IN THE NEW CONSTRUCTION, UNLESS SPECIFICALLY NOTED ELSEWHERE IN THE CONTRACT DOCUMENTS TO REMAIN. REPAIR AND PATCH SYSTEMS TO REMAIN WITH MATCHING EXISTING CONSTRUCTION AND AS INDICATED IN CONTRACT DOCUMENTS. COORDINATE WITH NEW CONSTRUCTION.



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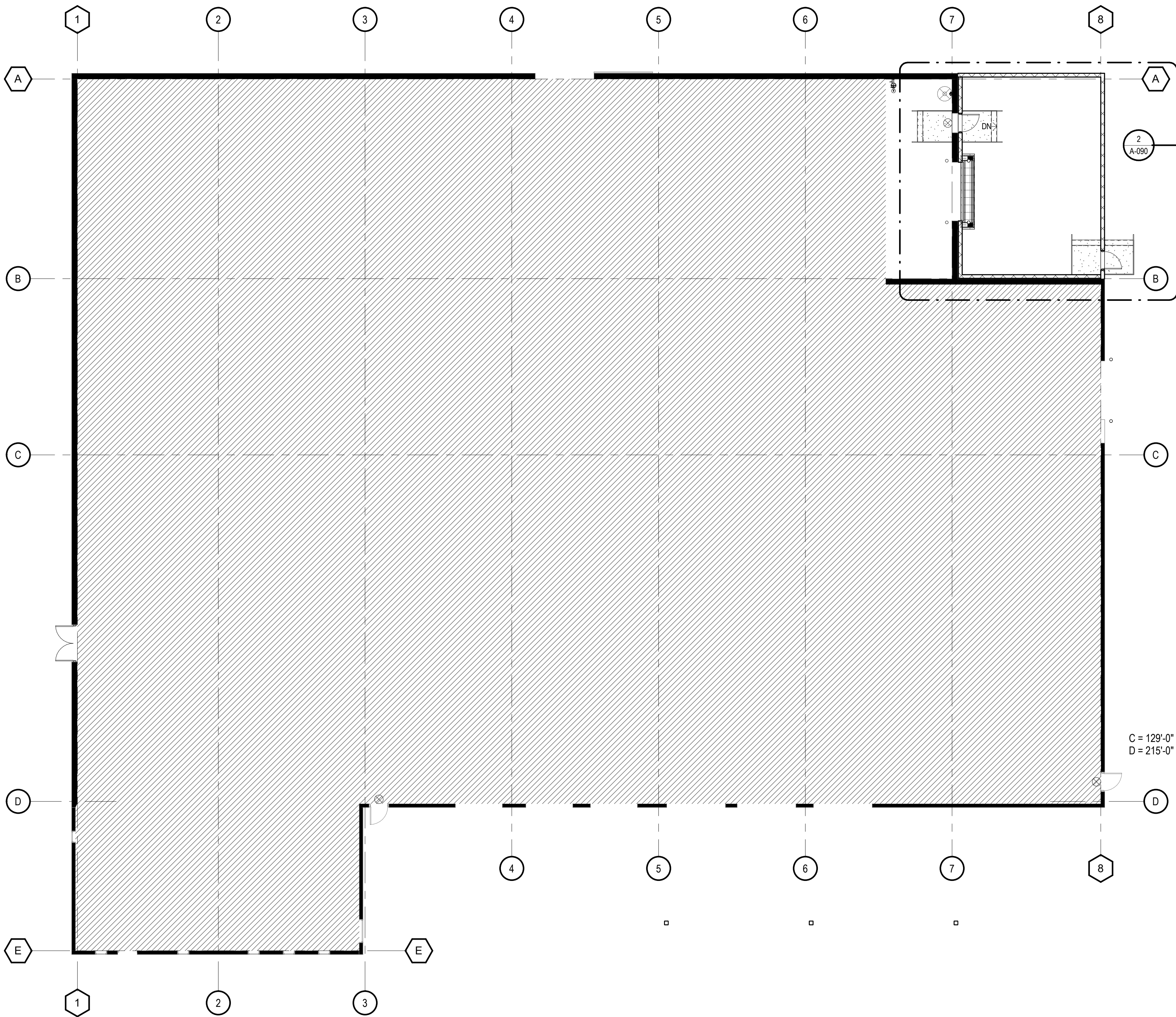
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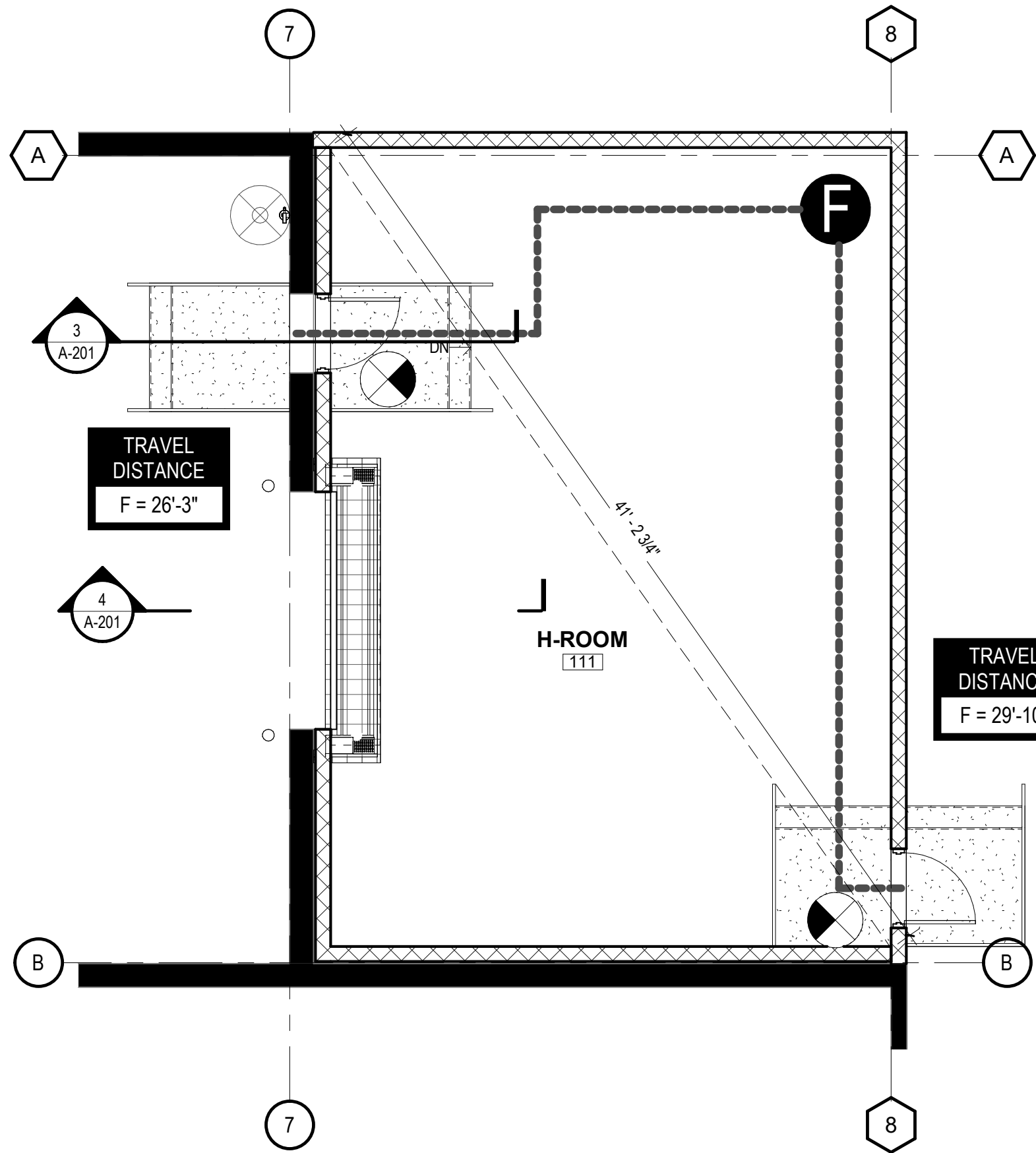
Revisions	

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Sheet Title
DEMOLITION PLAN

Sheet No.
A-080
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1
A-090
LIFE SAFETY PLAN - OVERALL
3/32" = 1'-0"



2
A-090
LIFE SAFETY PLAN - H-ROOM
3/16" = 1'-0"

LIFE SAFETY LEGEND

DENOTES SURFACE MOUNTED FIRE EXTINGUISHER TO COMPLY WITH PRODUCT REQUIREMENTS OF NFPA 10 AND APPLICABLE CODES, WHICHEVER IS MORE STRINGENT.

- DRY CHEMICAL TYPE FIRE EXTINGUISHERS: CARBON STEEL TANK, WITH PRESSURE GAGE.
- STORED PRESSURE OPERATED: DEEP DRAWN
- CLASS: 4A - 60B:C
- SIZE: 10 POUND
- SIZE: 10 POUND

ALL FIRE EXTINGUISHER LOCATIONS TO BE APPROVED BY FIRE MARSHAL AND/OR AHJ

WALL MOUNTED EXIT SIGN

CEILING MOUNTED EXIT SIGN

2021 BUILDING CODE SUMMARY										
OCCUPANCY USE	CLASSIFICATION	AREA	SPRINKLER	CONST. TYPE	STORY LIMIT	ACTUAL STORIES	HEIGHT LIMIT	COMMON PATH OF TRAVEL	DEAD END CORR.	EXIT TRAVEL DISTANCE
OFFICE	B	1,090	YES	II-B	2	1	55'-0"	100' PER IBC TABLE 1006.2.1	50' PER IBC 1020.5.2	400' PER IBC 1017.2.2
SHOWROOM	M	482	YES	II-B	2	1	55'-0"	75' PER IBC TABLE 1006.2.1	50' PER IBC 1020.5.2	250' PER IBC TABLE 1017.2
WAREHOUSE	S-1	21,678	YES	II-B	2	1	55'-0"	100' PER IBC TABLE 1006.2.1	50' PER IBC 1020.5.2	300' PER IBC 1017.2.2
H-ROOM	HIGH HAZARD...	875	YES	II-B	2	1	55'-0"	25' PER IBC PER 1006.2.1	20' PER IBC 1020.5	150' PER IBC TABLE 1017.2



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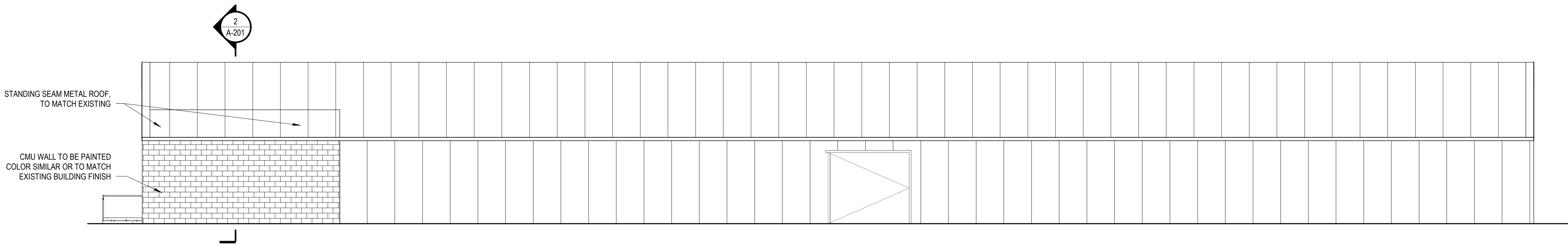
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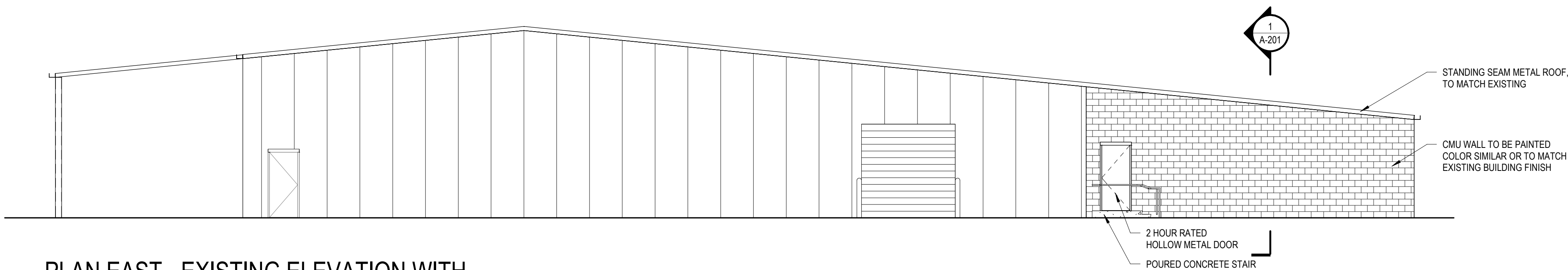
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LIFE SAFETY PLAN

Sheet No.
A-090

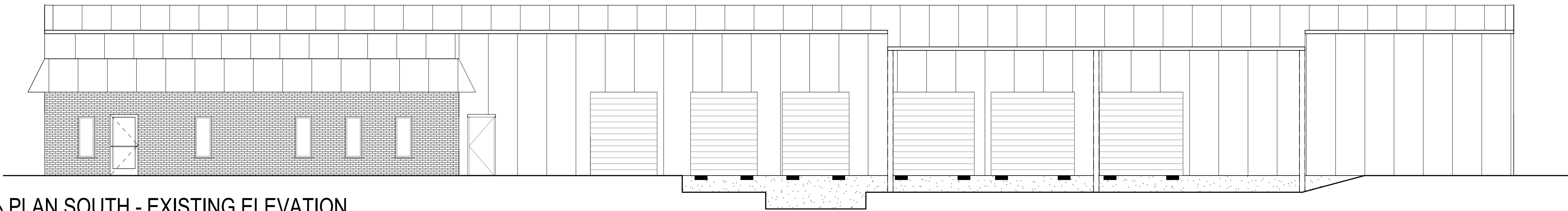
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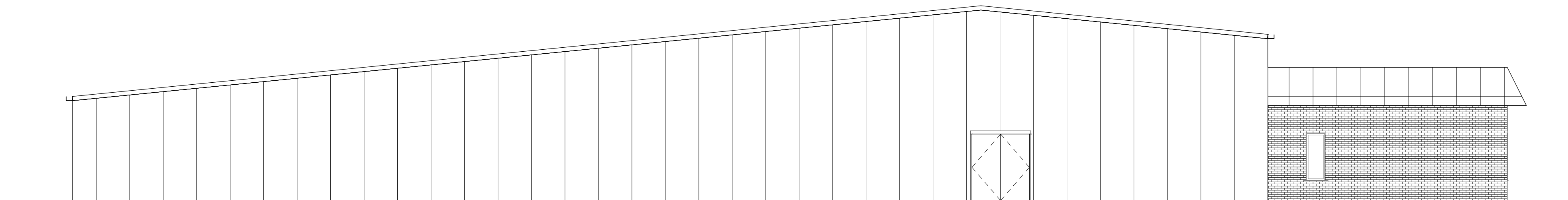
1
A-200
PLAN NORTH - EXISTING ELEVATION WITH
ADDED H-ROOM
1/8" = 1'-0"



2
A-200
PLAN EAST - EXISTING ELEVATION WITH
ADDED H-ROOM
1/8" = 1'-0"



3
A-200
PLAN SOUTH - EXISTING ELEVATION
1/8" = 1'-0"



4
A-200
PLAN WEST - EXISTING ELEVATION
1/8" = 1'-0"



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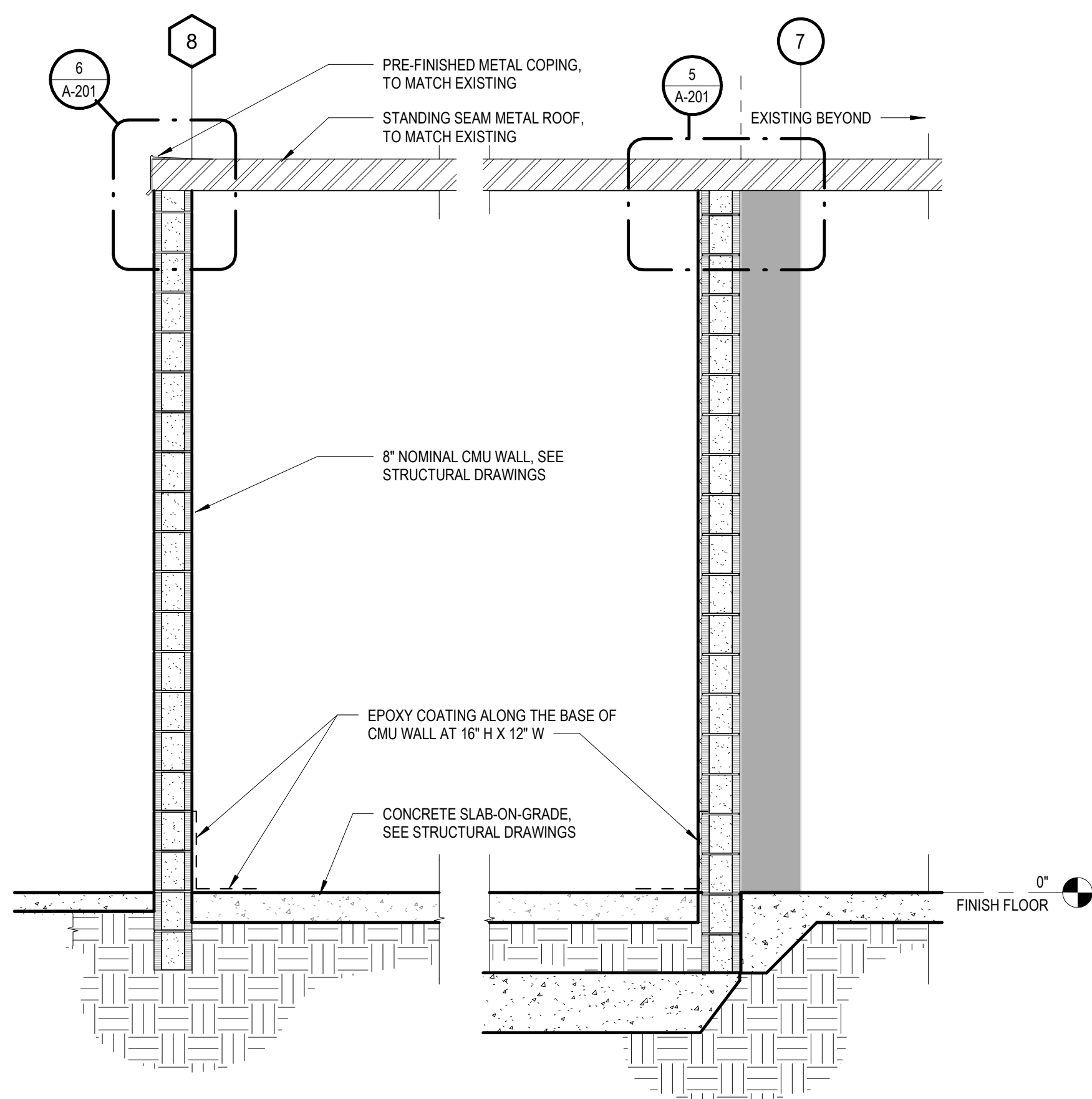
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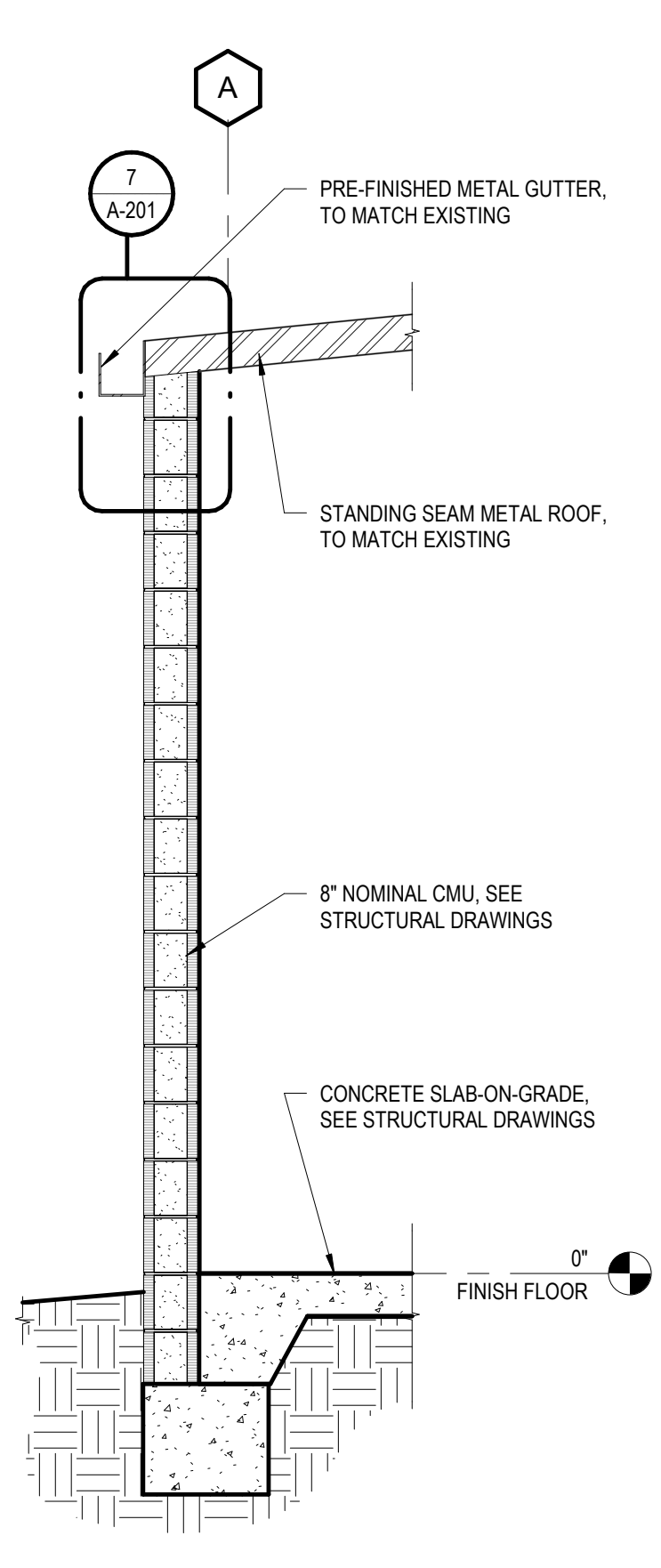
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BUILDING ELEVATIONS

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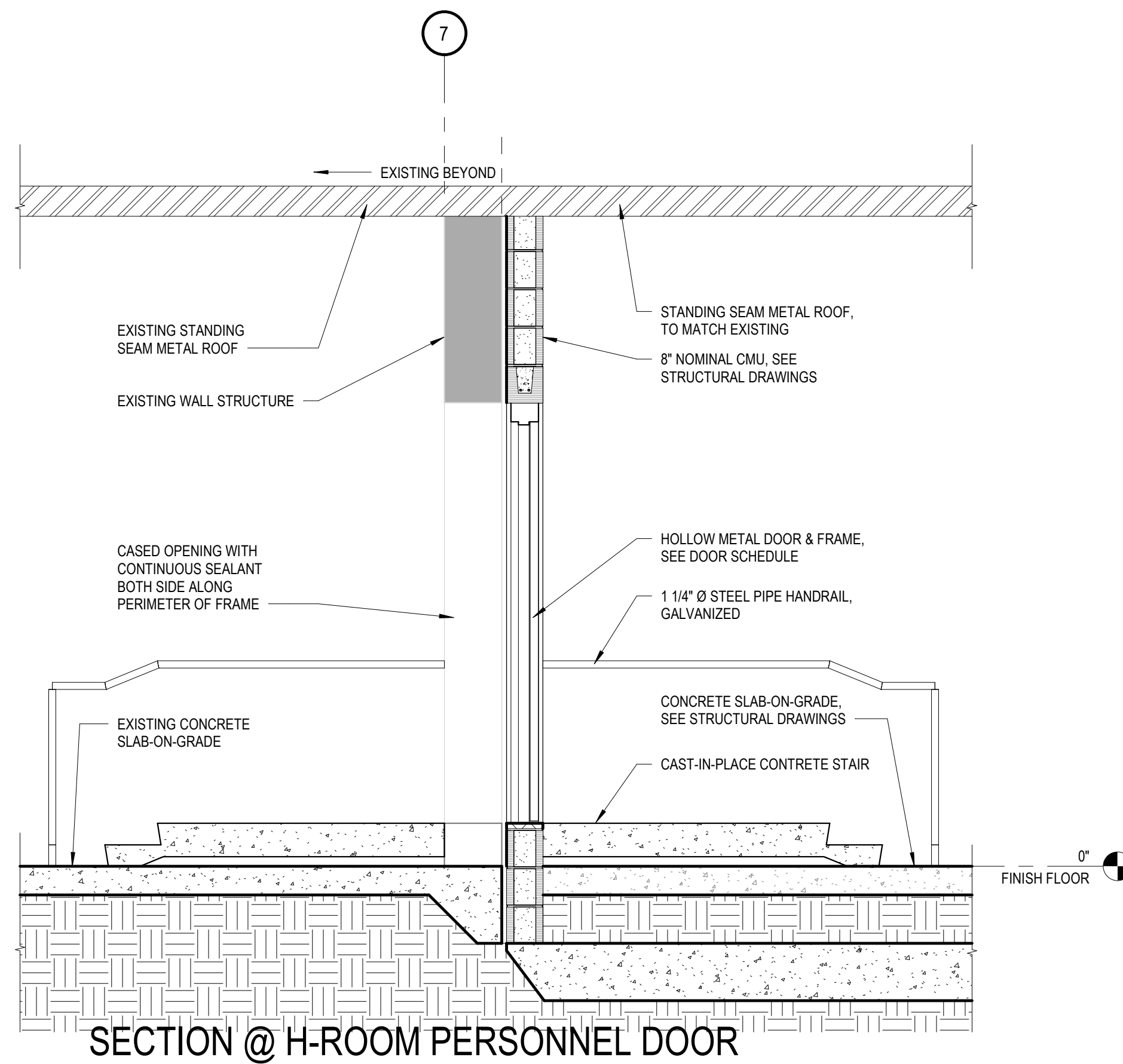
1 SECTION @ THRU H-ROOM

A-201 1/2" = 1'-0"



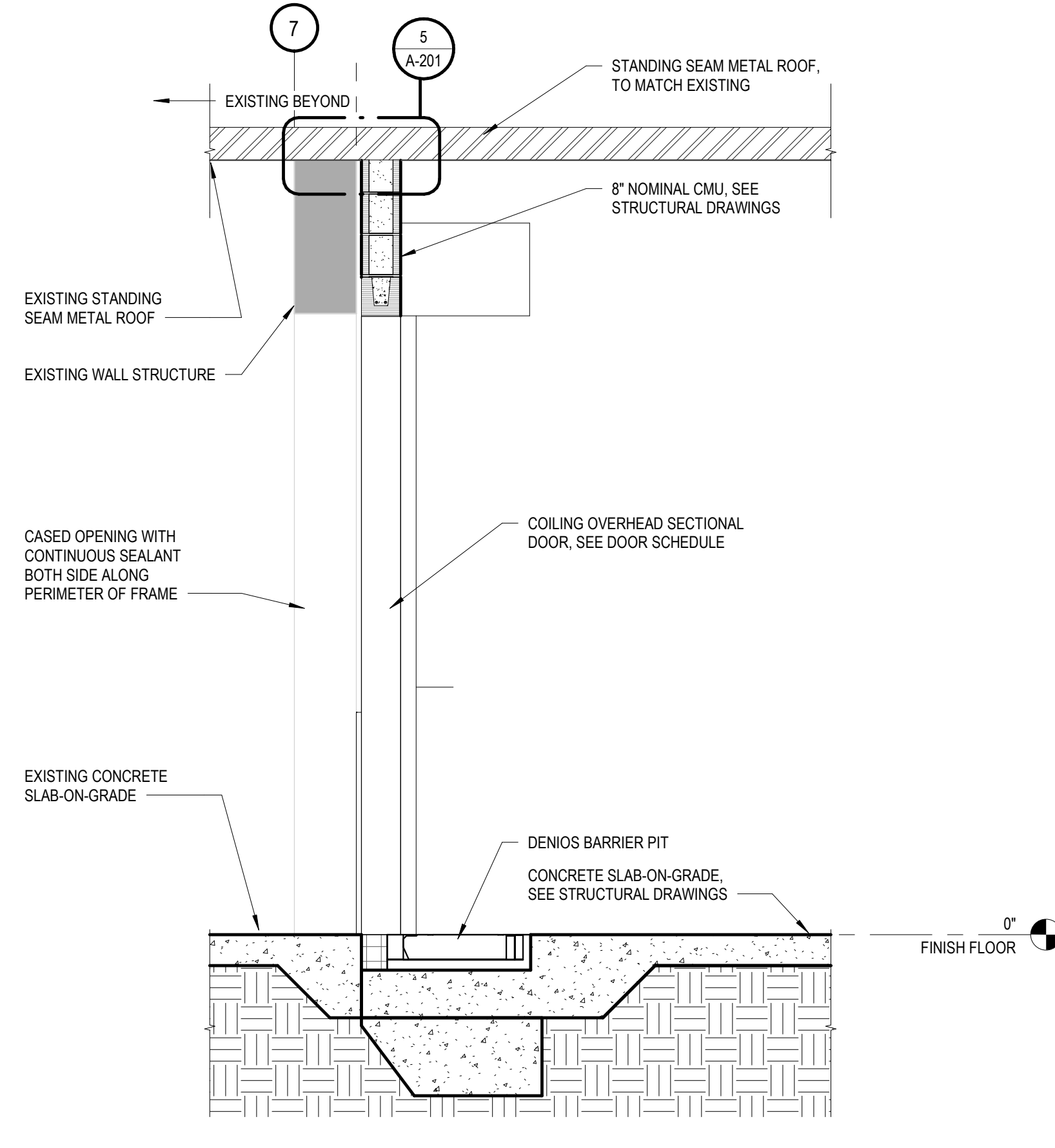
2 SECTION @ H-ROOM GUTTER WALL

A-201 1/2" = 1'-0"



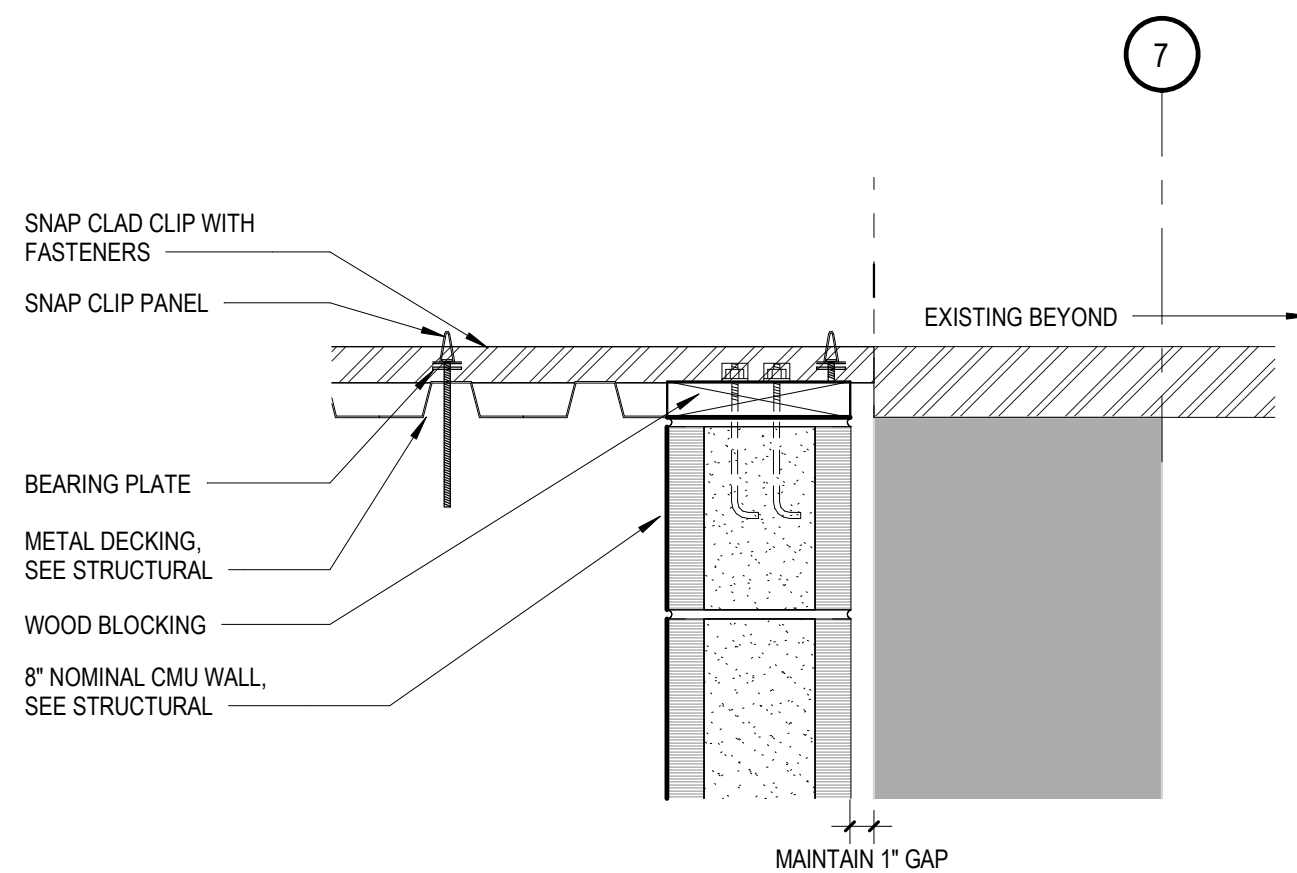
3 SECTION @ H-ROOM PERSONNEL DOOR ENTRY

A-201 1/2" = 1'-0"



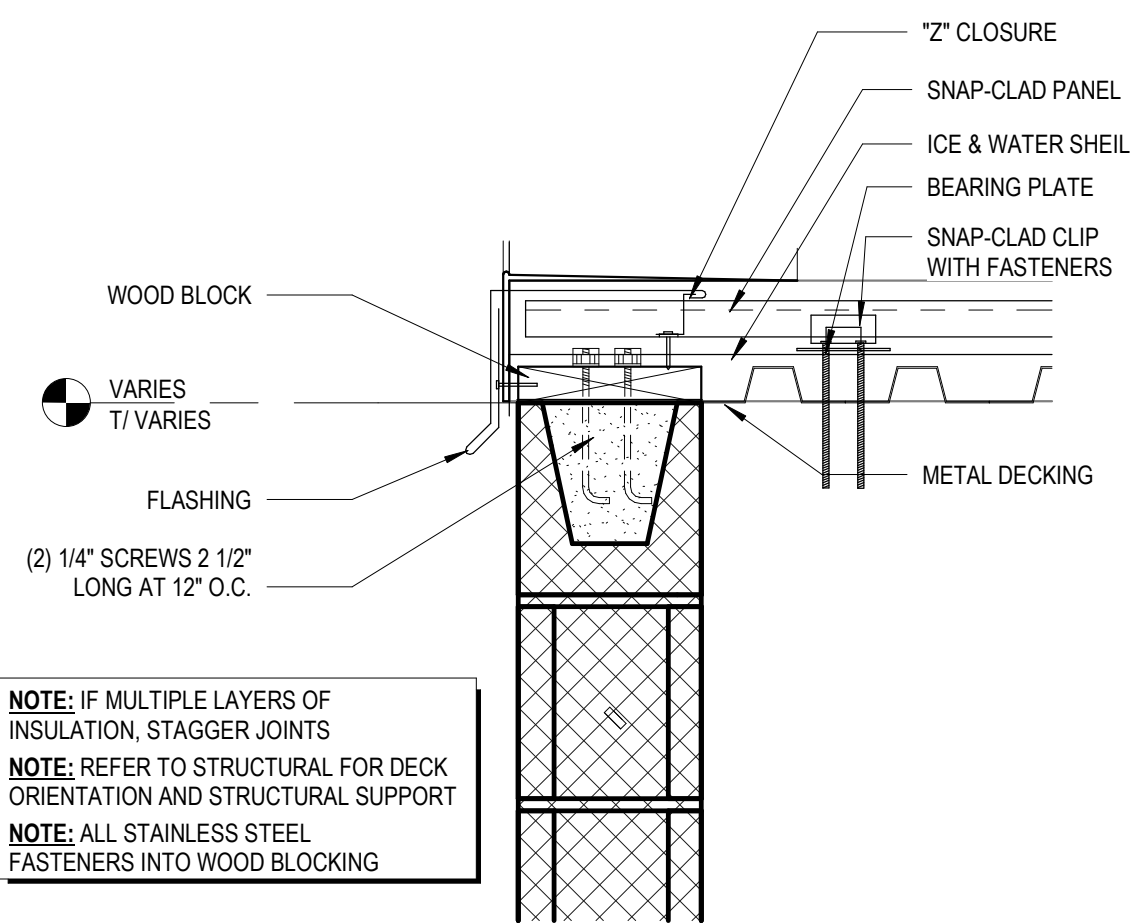
4 SECTION @ H-ROOM OVERHEAD DOOR

A-201 1/2" = 1'-0"



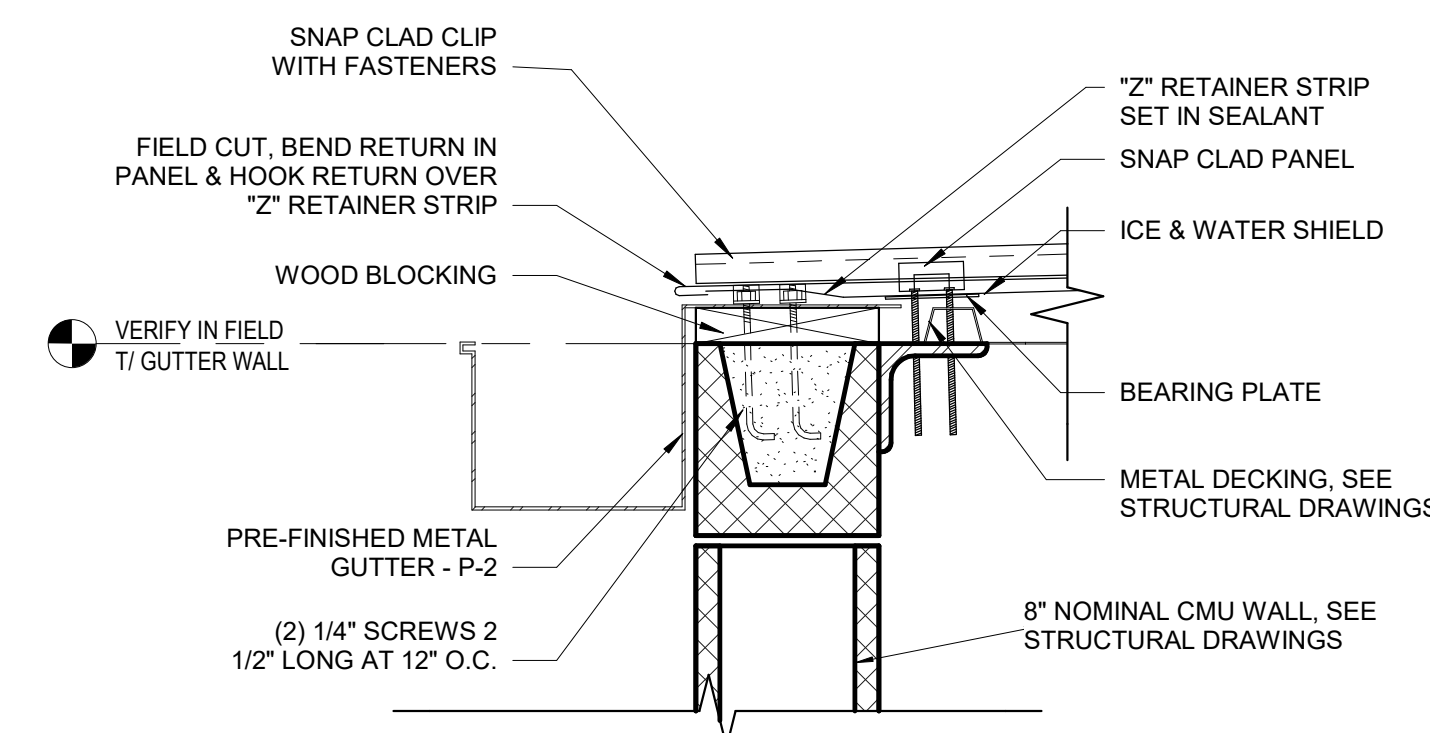
5 DETAIL - METAL ROOF AT EXISTING

A-201 1 1/2" = 1'-0"



6 METAL ROOF @ GRAVEL STOP

A-201 1 1/2" = 1'-0"



7 METAL ROOF @ GUTTER

A-201 1 1/2" = 1'-0"



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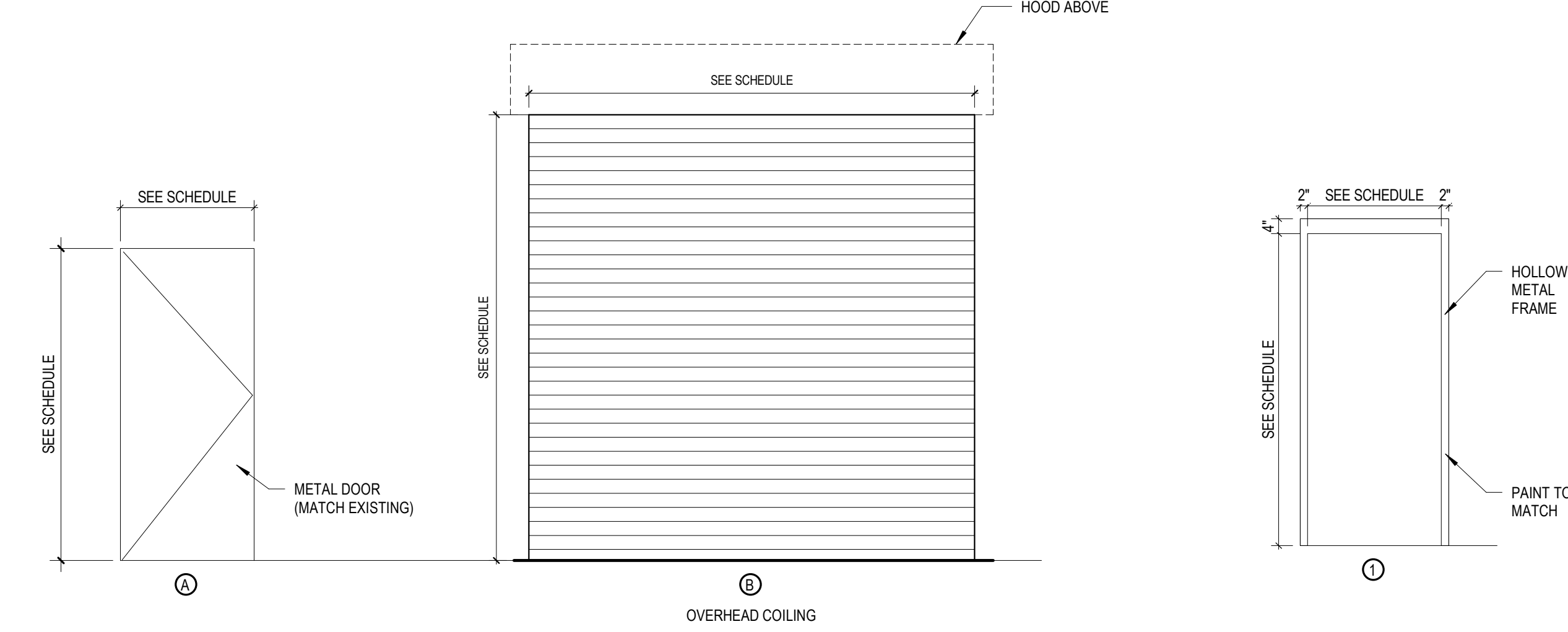
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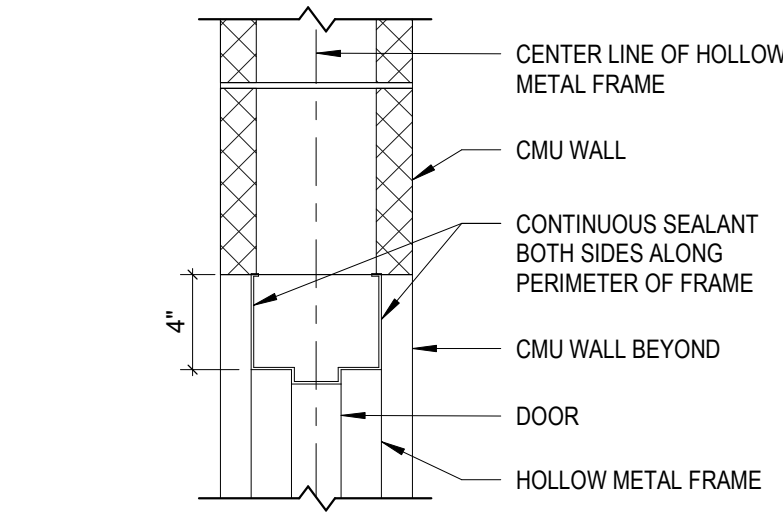
Date 14 OCTOBER 2024 Project No. 2023362.00
Sheet Title H-ROOM DETAILS

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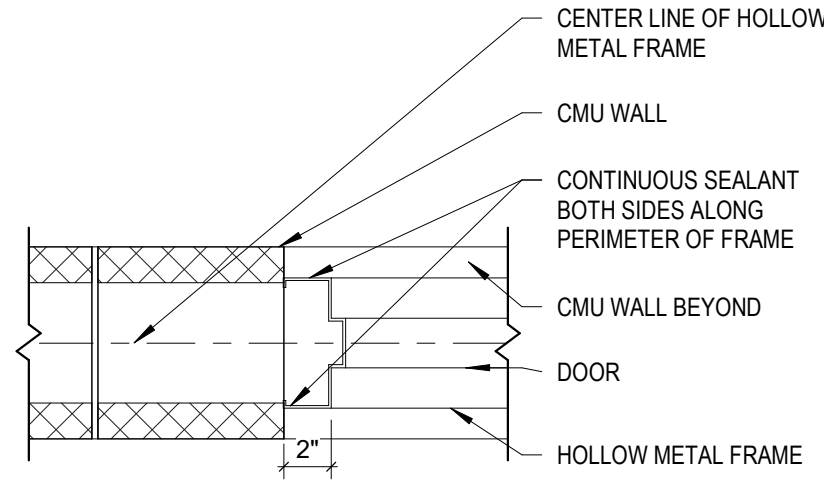


TYPES - DOORS
3/8" = 1'-0"

TYPES - FRAMES
3/8" = 1'-0"



1 HEAD DETAIL @ CMU
A-601 1 1/2" = 1'-0"



2 JAMB DETAIL @ CMU
A-601 1 1/2" = 1'-0"

- DOOR AND HARDWARE NOTES
- (DOORS/HARDWARE) HANDLES, PULLS, LATCHES LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGN.
 - ALL DOORS TO HAVE SILENCERS.
 - HARDWARE TO MATCH BUILDING STANDARD.
 - DOORS SHALL BE PAINTED TO MATCH BUILDING STANDARD.

HARDWARE SCHEDULE:	
SET NO.	DESCRIPTION
NO. 1	3 EA. HINGES, FULL MORTISE
	1 EA. LOCKSET
	1 EA. SURFACE CLOSER
	1 KICK PLATE
	1 DOOR STOP
	1 GASKETING

SCHEDULE - DOOR																
NUMBER	LOCATION	DOOR					FRAME			DETAILS			HARDWARE SET	RATING	REMARKS	
		TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB				THRESHOLD
111A	H-ROOM	B	10'-0"	10'-0"	2"	MANUF.	MANUF.	MANUF.	MANUF.	MANUF.	N/A	N/A	N/A	N/A		
111B	H-ROOM	A	3'-0"	7'-0"	1 3/4"	HM	PAINT	1	HM	PAINT	1/A-601	2/A-601	-	1	2 HR	ADD LATCH PROTECTOR & RAIN DRIP EDGE
111C	H-ROOM	A	3'-0"	7'-0"	1 3/4"	HM	PAINT	1	HM	PAINT	3/A-601	4/A-601	-	1	2 HR	



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DOOR SCHEDULE & NOTES

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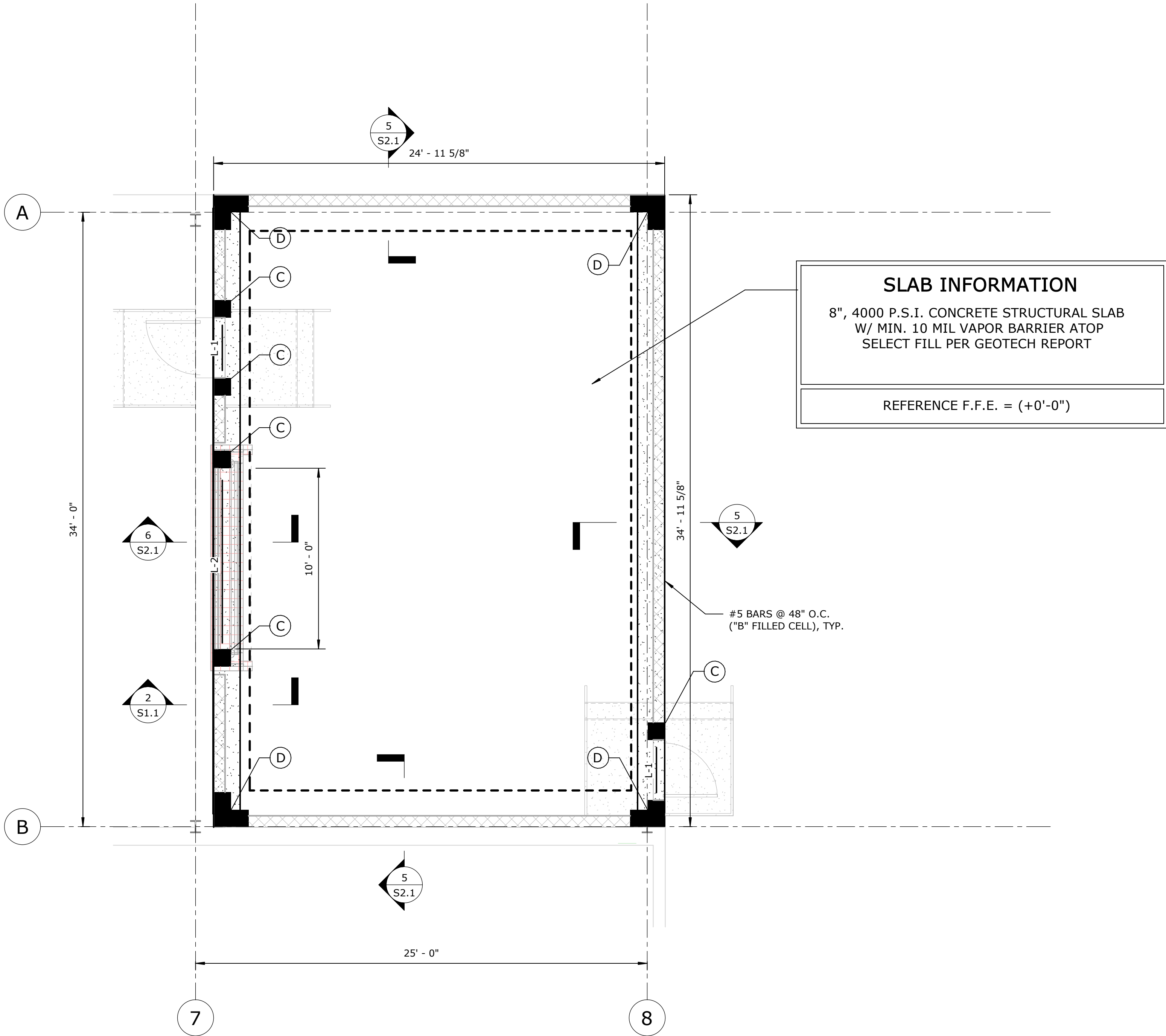
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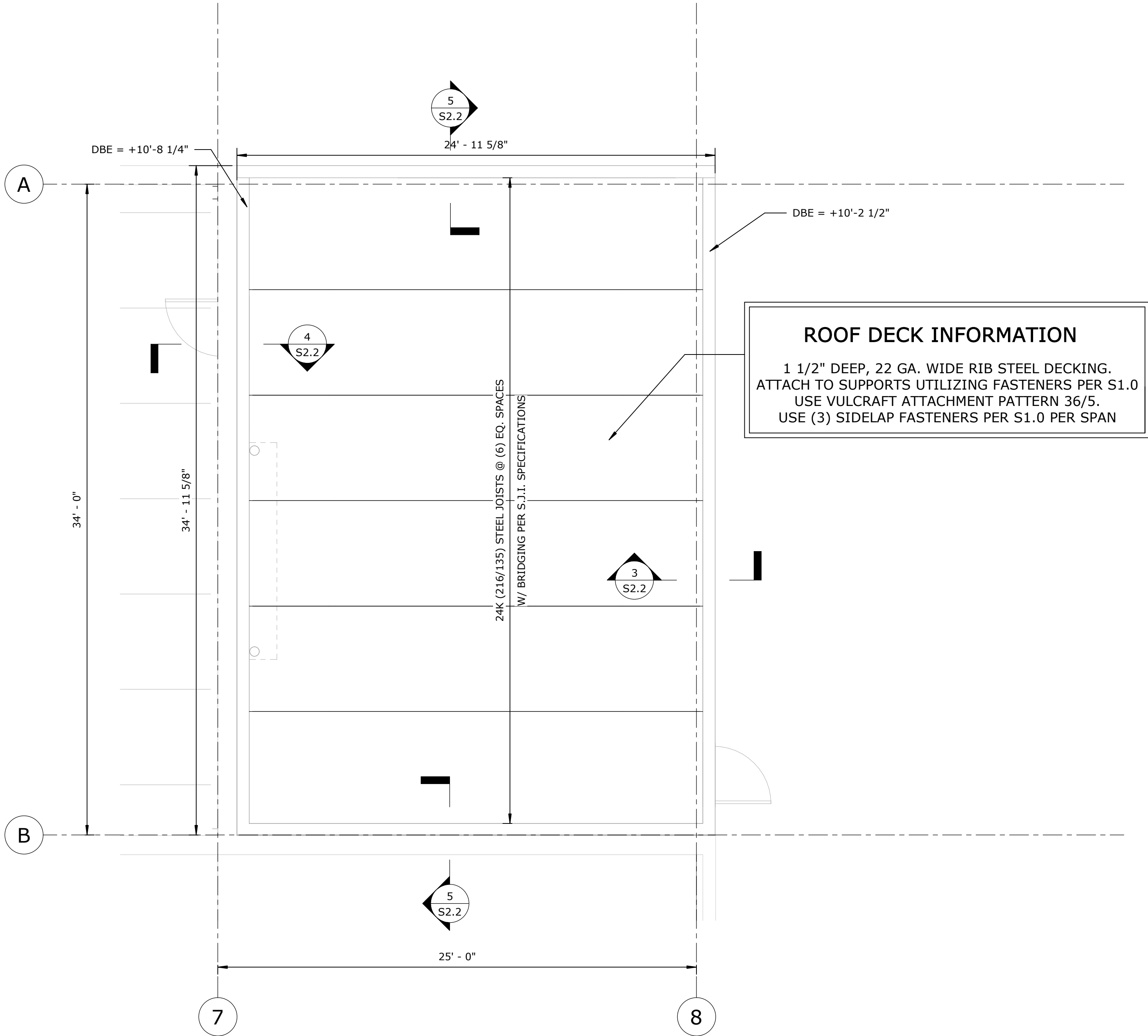
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Project No.: 2023362.00
Sheet Title: STORAGE ROOM PLAN & DETAILS

Sheet No.: **S1.2**
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1
S1.2 STORAGE ROOM PARTIAL FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

- FOUNDATION PLAN NOTES:**
1. L"x" - SEE LINTEL DETAILS ON S2.2 FOR LINTEL SIZES AND DETAILS.
 2. SEE SHEET S2.2 FOR ALL FILLED CELL DETAILS.
 3. SEE ARCHITECTURAL ELEVATIONS FOR EXACT MASONRY C.J. LOCATIONS.
 4. SEE S2.1 FOR SLAB REINFORCEMENT DETAILS.
 5. GROUT FILL ALL CELLS BELOW GRADE.
 6. SEE ARCH. FOR ALL DIMENSIONS NOT SHOWN. VERIFY DIMENSIONS SHOWN W/ ARCH. DWGS.
 7. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR LOCATIONS OF MISTURE BARRIER, CURBS, EXTERIOR SLABS, DRAINAGE,RAMPS, STEPS, WALKS, UTILITY, ETC.
 8. EXISTING BUILDING WALLS AND SLAB-ON-GRADE NEED TO BE FIELD VERIFIED PRIOR TO FABRICATION.



2
S1.2 STORAGE ROOM PARTIAL ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

- ROOF FRAMING PLAN NOTES:**
1. D.B.E. - INDICATES DECK BEARING ELEVATION IN RELATION TO F.F.E.
 2. ALL LOADS SHOWN ARE ALLOWABLE (ASD) LEVEL SERVICE LOADS.
 3. SEE GENERAL NOTES FOR UPLIFT PRESSURES FOR JOIST.
 4. JOIST SIZES SHOWN ARE THE MINIMUM SIZE TO SUPPORT ROOF DEAD AND LIVE LOADS. PROVIDE SPECIAL JOISTS AT ROOF SUPPORTED EQUIPMENT USING WEIGHTS AND LOCATIONS SHOWN ON PLAN. STRUCTURAL PLANS REFLECT THE LATEST INFORMATION PROVIDED TO THE STRUCTURAL ENGINEER FOR ROOF SUPPORTED EQUIPMENT. JOIST MANUFACTURER TO COORDINATE WITH LATEST MECHANICAL DRAWINGS IF DIFFERENT THAN STRUCTURAL DRAWINGS.
 5. SEE TYP. RTU FRAMING DETAIL FOR FRAMING AT RTUs & OTHER OPENINGS IN ROOF GREATER THAN 12" SQUARE OR DIAMETER.
 6. ALL JOISTS SHALL HAVE BRIDGING PER S.J.I. SPECIFICATIONS. JOIST BRIDGING NOT SHOWN FOR CLARITY.
 7. ALL ROOF CHORD ANGLES AND BENT PLs SHALL BE CONTINUOUS AROUND THE PERIMETER OF THE DECK. SEE TYPICAL ROOF CHORD ANGLE SPLICE DETAILS WHERE SPLICES ARE NECESSARY.

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ADDITION**

at
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- ROCKWALL,
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(H-ROOM)**
for



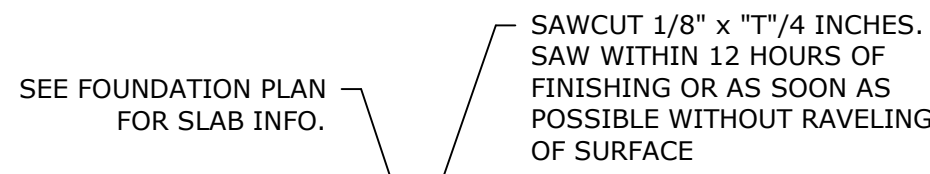
2065 KRISTY LN
ROCKWALL, TEXAS 75032

Print Record	Dwn.	Chk.
14 OCT 24	ISSUED FOR PERMIT	

Revisions	

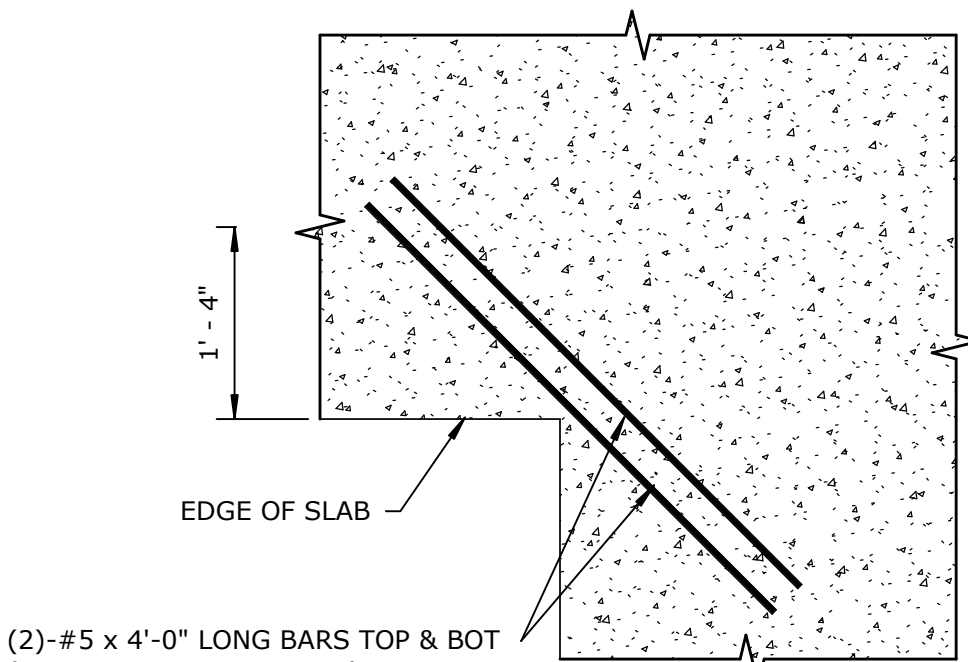
Date: 08/23/2024 Project No.: 2023362.00
Sheet Title: SECTIONS & DETAILS

Sheet No.: **S2.1**
☒ Released for Construction
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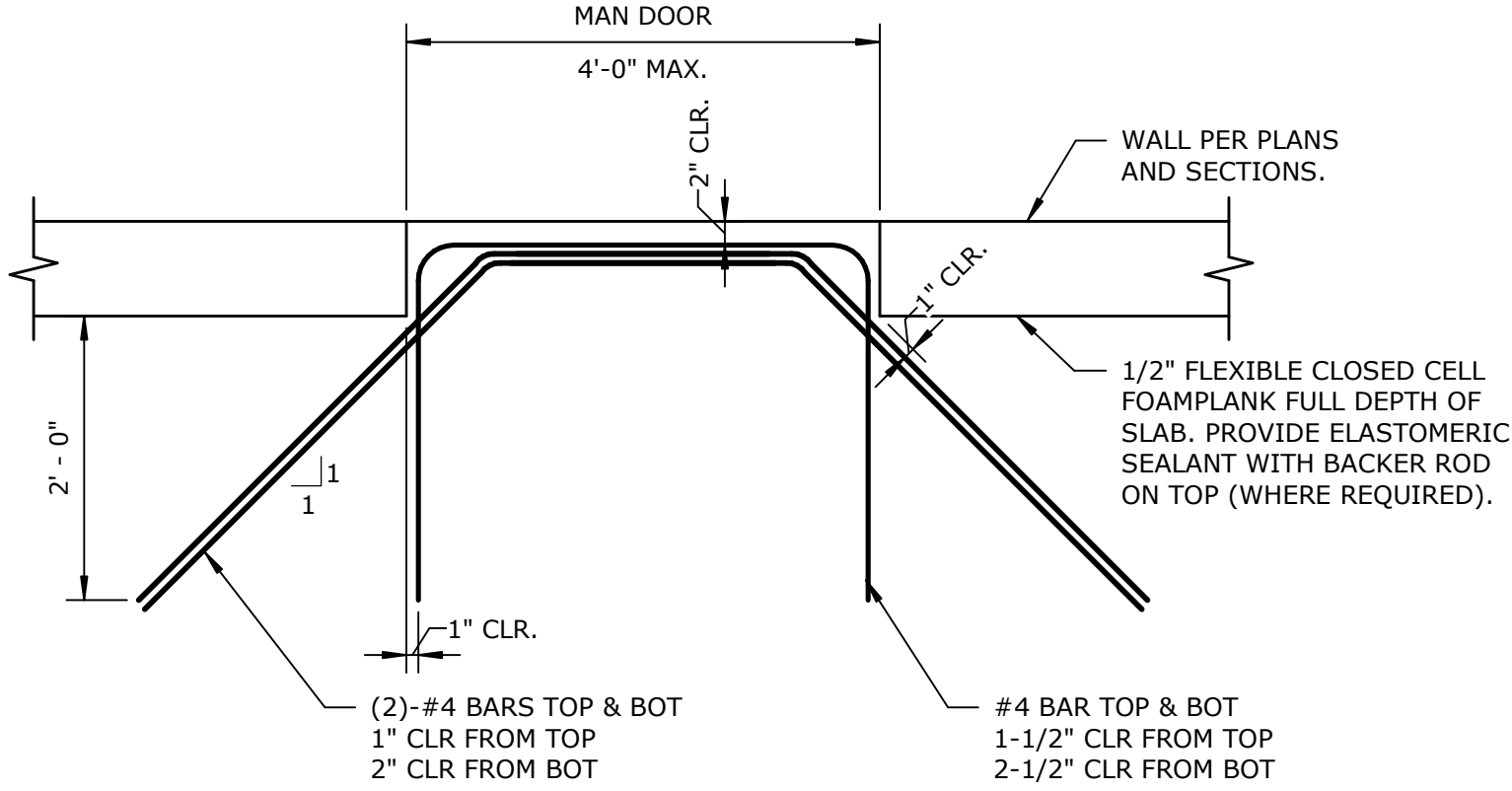
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S2.1

TYPICAL SLAB CONTRACTION JOINT
SCALE: 3/4" = 1'-0"



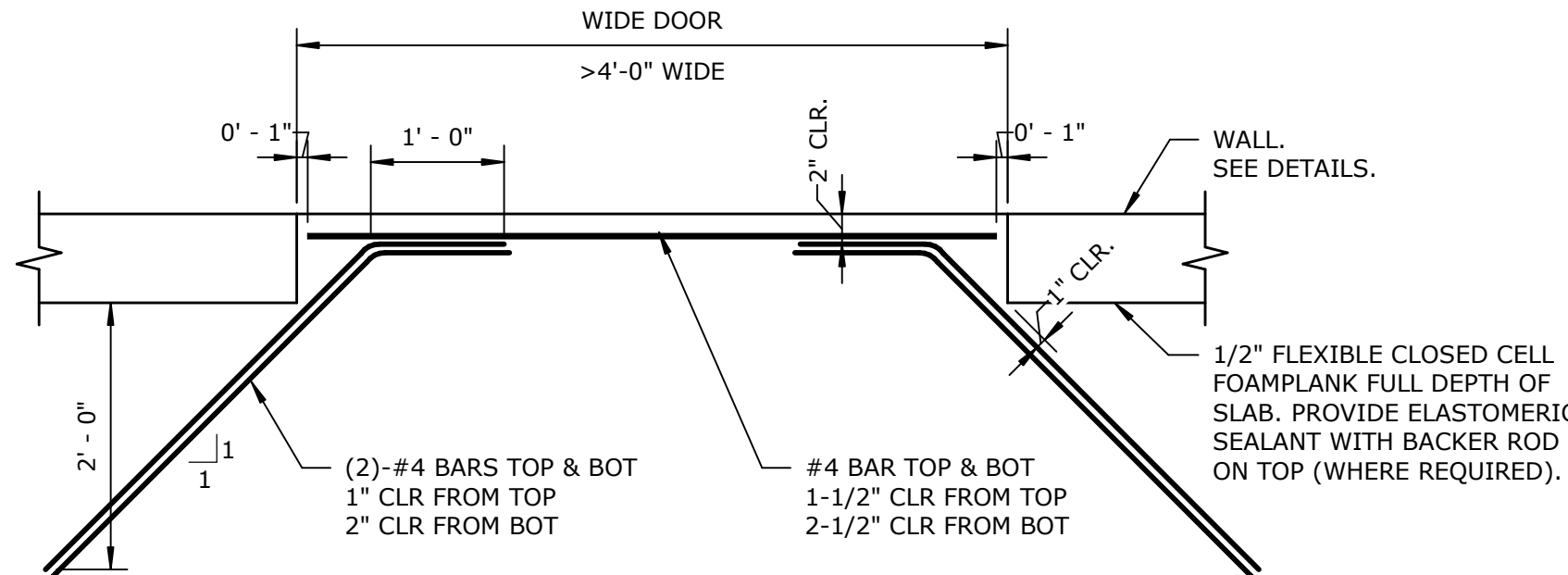
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RE-ENTRANT CORNER
SCALE: 3/4" = 1'-0"



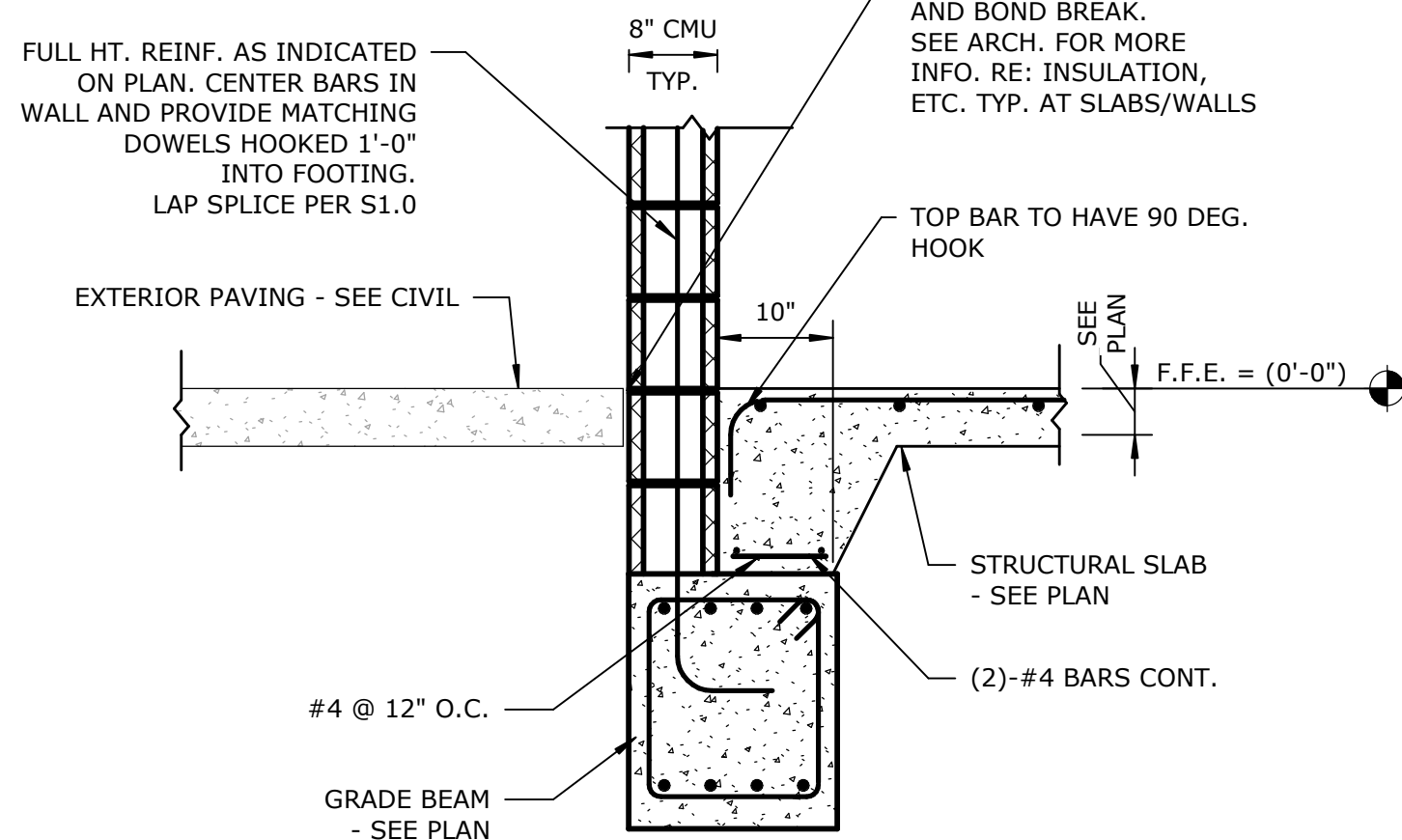
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MAN DOOR SLAB REINFORCEMENT
SCALE: 3/4" = 1'-0"



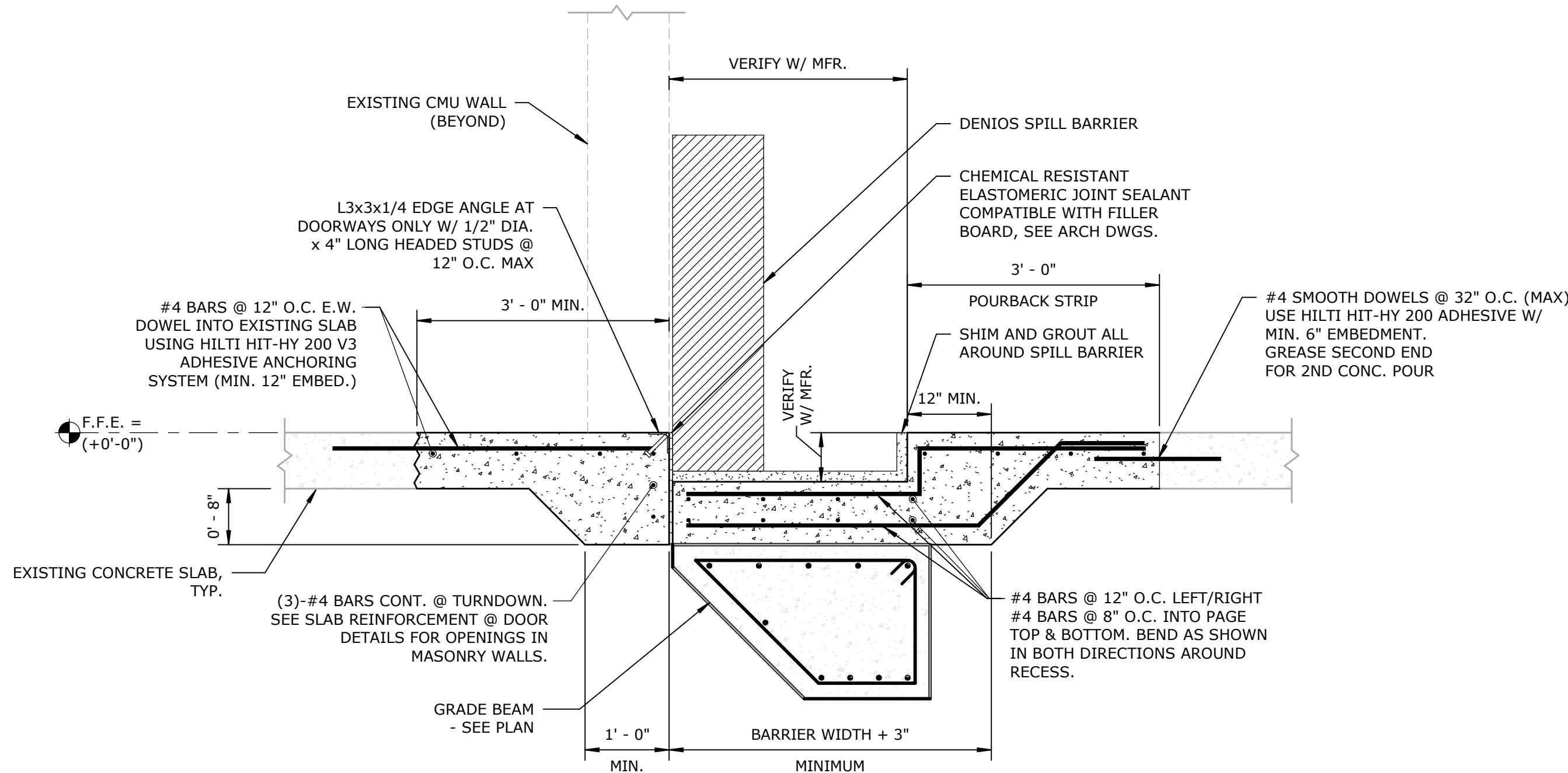
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S2.1

WIDE DOOR SLAB REINFORCEMENT
SCALE: 3/4" = 1'-0"



5
S2.1

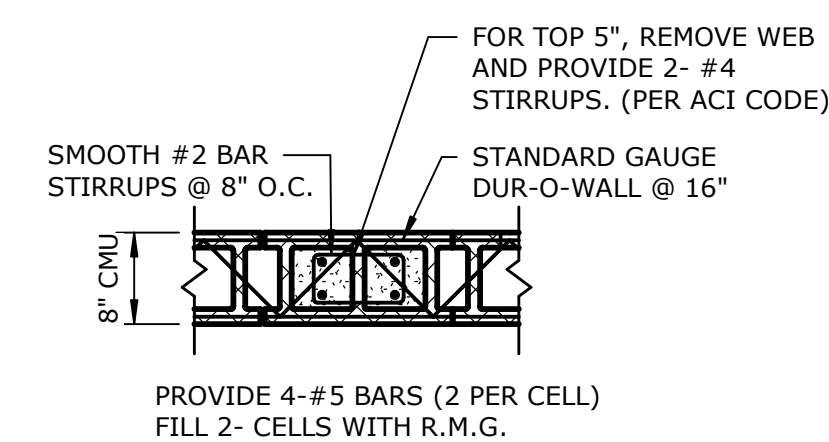
TYP. 8" CMU WALL - TURNDOWN
SCALE: 3/4" = 1'-0"



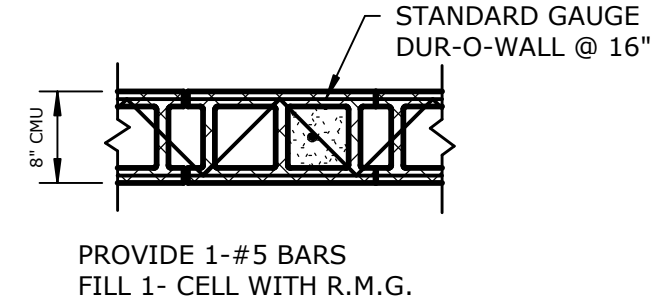
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TYPICAL SPILL BARRIER DETAIL
SCALE: 3/4" = 1'-0"

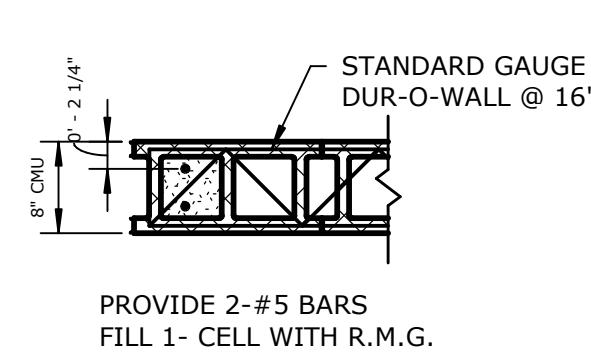
1. FILLED CELLS (CMU) SHALL BE CONTINUOUS FROM FOOTING TO TOP BOND BEAM COURSE IN ANY GIVEN WALL SEGMENT. AT DETAIL "A" FILLED CELLS ARE CONTINUOUS FROM FOOTING TO BOND BEAM COURSE. AT DETAIL "B" FILLED CELLS STOP AT TOP OF FOOTING. PROVIDE NON-SHRINK GROUT AND BEARING PLATE AS DETAILED WITH ANCHOR BOLTS OR CAST-IN-PLACE STUD ANCHORS. EXPANSION BOLTS OR SLEEVE ANCHORS ARE NOT ALLOWED AS A SUBSTITUTE FOR CAST-IN-PLACE ANCHOR BOLTS WHERE CAST-IN-PLACE ANCHOR BOLTS ARE SHOWN ON THE DRAWINGS.
2. VERTICAL REINFORCEMENT IN FILLED CELLS SHALL BE DOWELED INTO FOOTING AT BOTTOM BOND BEAM COURSE AT EACH GRID LINE. PROVIDE DOUBLE END LAPS IN EQUAL QUANTITY AS VERTICAL BAR REINFORCEMENT AND SHALL HAVE A 1'-6" BEND INTO EITHER FOOTING OR BOND BEAM.
3. CONTRACTOR SHALL PROVIDE STANDARD GAUGE "DUR-O-WALL" (JOINT REINFORCEMENT) AT 16" O.C. IN ALL CMU WALLS UNLESS SPECIFIED OTHERWISE ON THE STRUCTURAL DRAWINGS.
4. CONTRACTOR SHALL PROVIDE SMOOTH #2 BAR STIRRUPS (AROUND VERTICAL REINFORCING) AT 16" O.C. IN DETAIL "A". THESE STIRRUPS SHALL BE IN MORTAR JOINTS ALTERNATING WITH "DUR-O-WALL".
5. REINFORCED MASONRY GROUT (R.M.G.) FOR FILLING CELLS IN CONCRETE MASONRY UNITS (VERTICAL FILLED CELLS AND BOND BEAMS) SHALL CONFORM TO "STANDARD SPECS FOR MORTAR AND GROUT FOR REINFORCED MASONRY", A.S.T.M. A-476-62, WITH A SLUMP OF BETWEEN 9" AND 11" AND PLACED NOT MORE THAN 2.5 HOURS AFTER WATER HAS BEEN FIRST ADDED IN 40-45 LBS MAXIMUM (1-PART CEMENT TO 2.5 PARTS FINE AGGREGATE BY VOLUME.) (3,000 P.S.I. AT 28 DAYS).
6. SEE GENERAL NOTES SHEET FOR VERTICAL CELL BARS LAP'S.
7. BARS SHALL BE A.S.T.M. A-615, GRADE 60; EXCEPT TIES AND STIRRUPS, WHICH MAY BE GRADE 40.



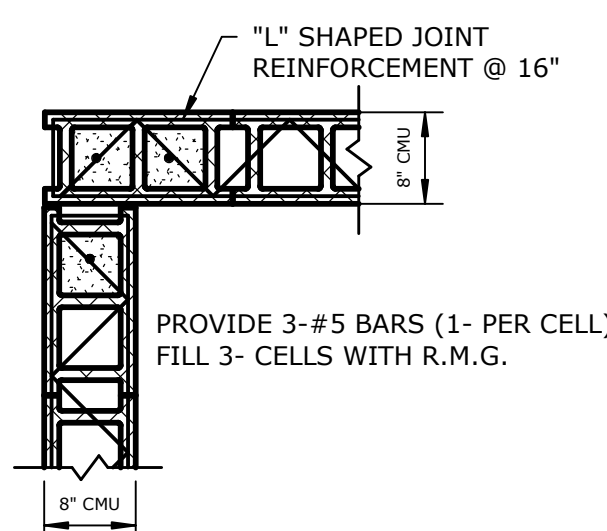
FILLED CELL DETAIL (A)
AT BEAM (OR GIRDER) BEARING



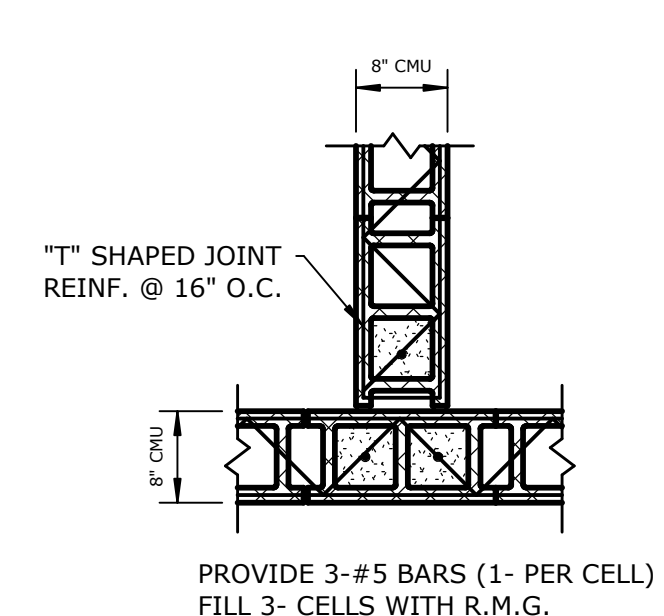
FILLED CELL DETAIL (B)



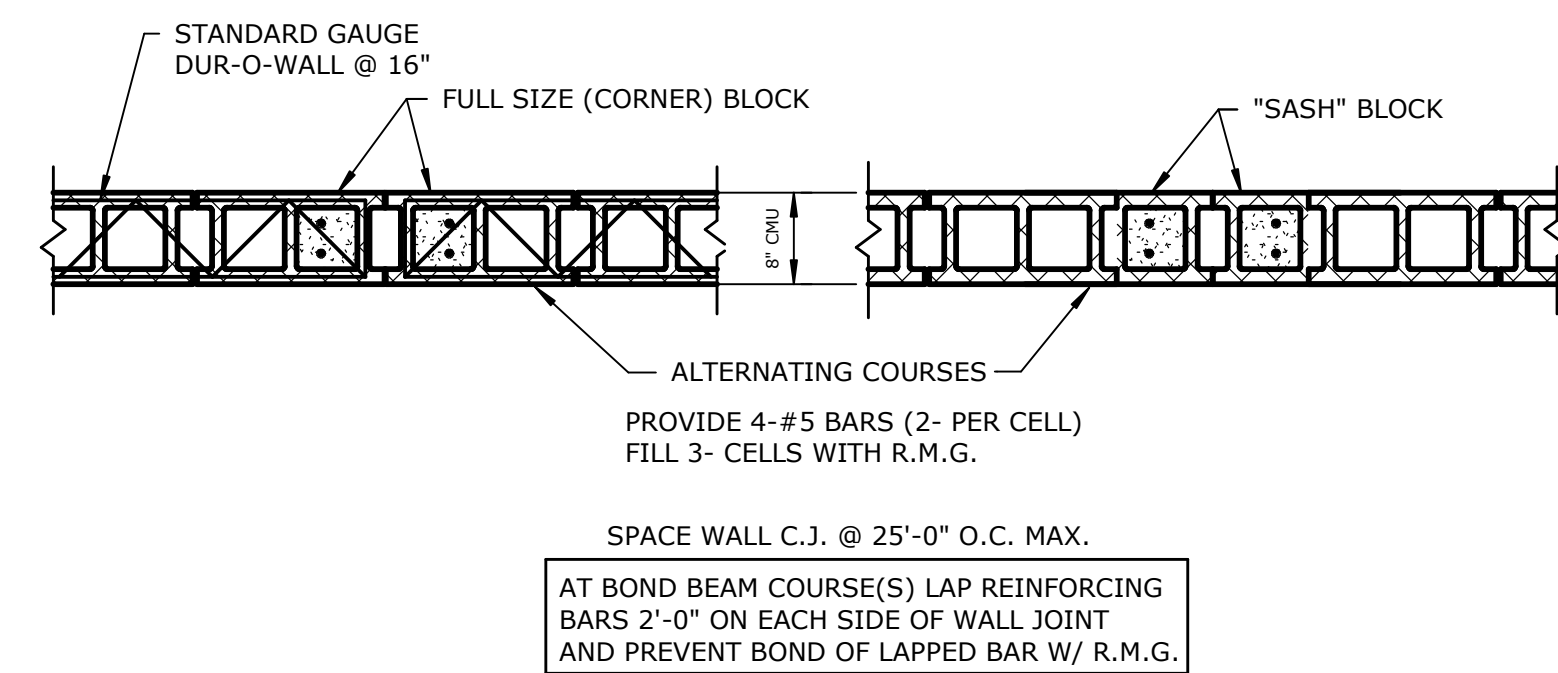
FILLED CELL DETAIL 
AT LINTELS/MASONRY OPENINGS



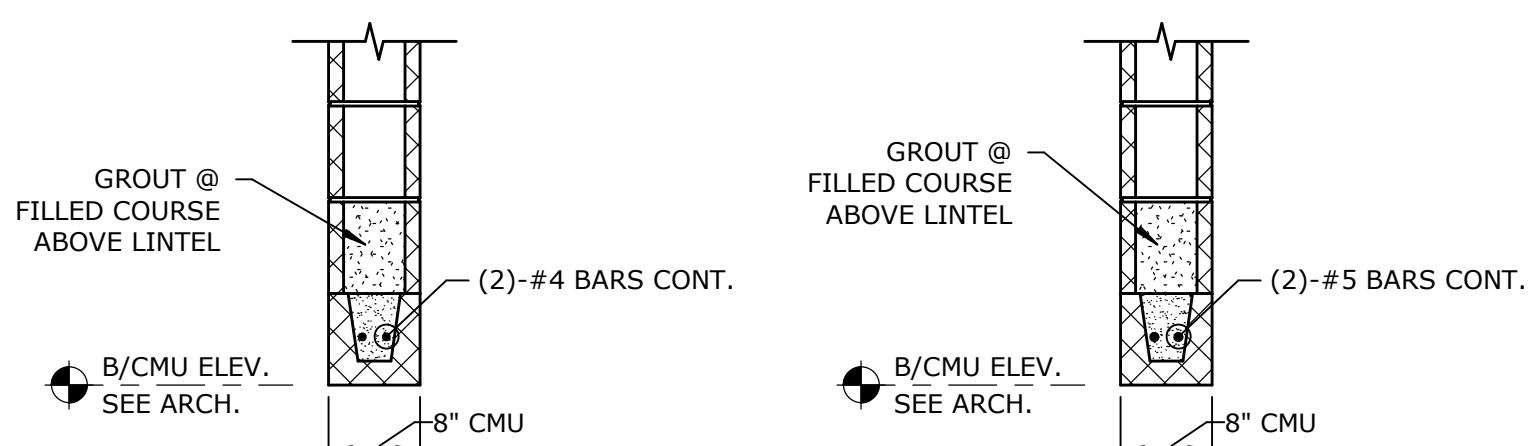
FILLED CELL DETAIL
AT CORNERS



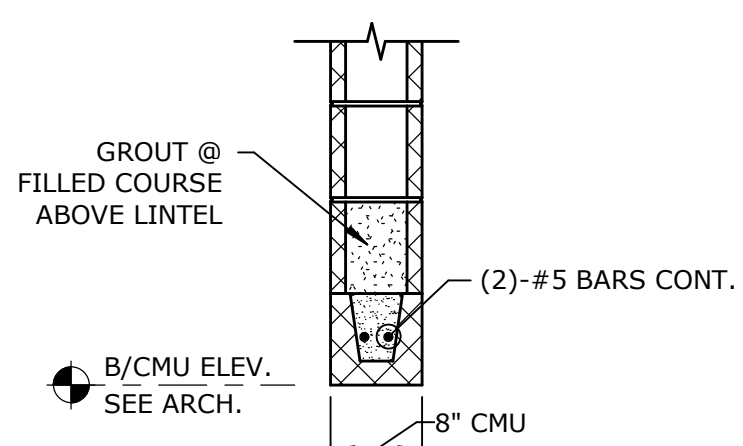
FILLED CELL DETAIL AT RIGID INTERSECTIONS



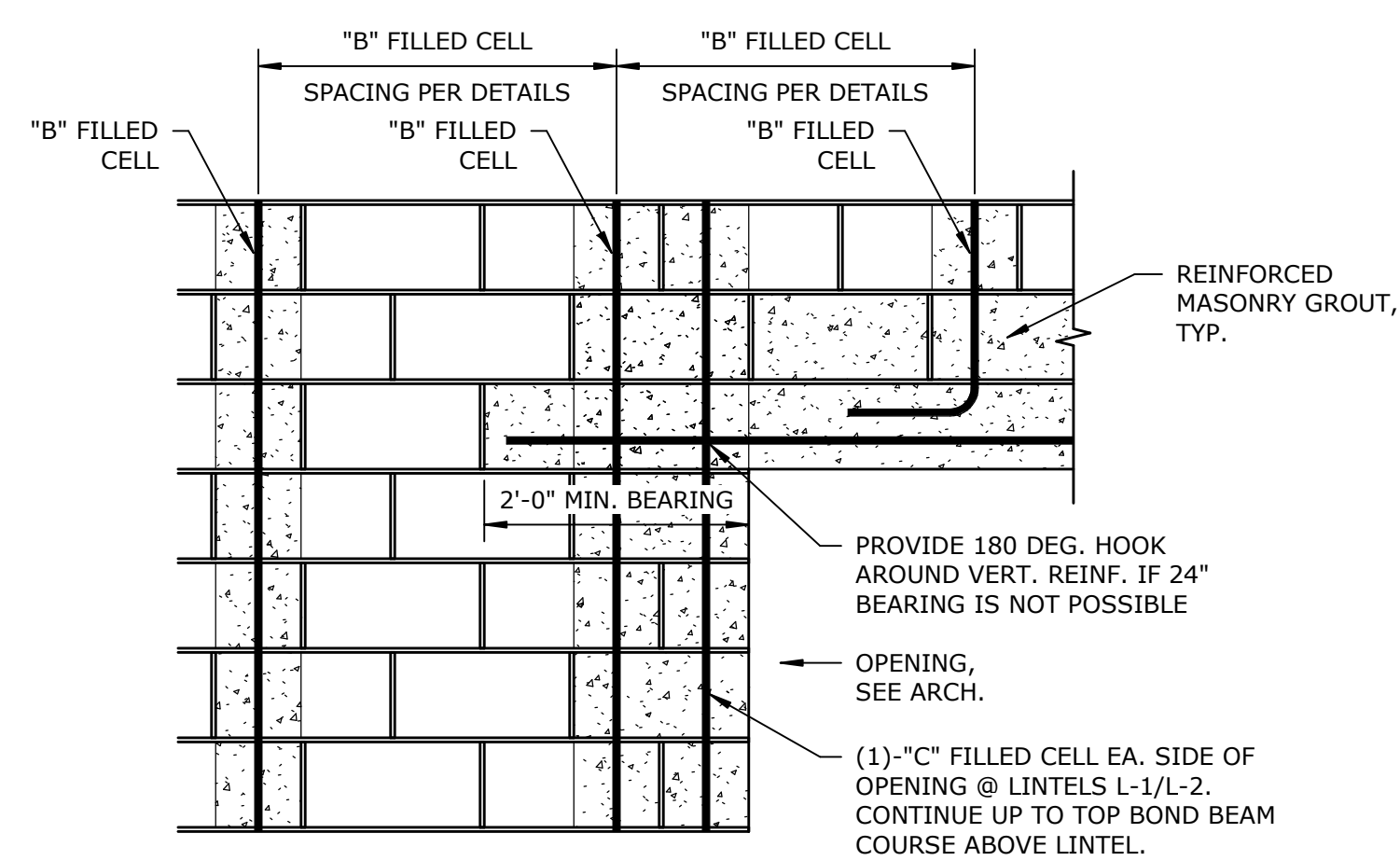
FILLED CELL DETAIL
AT WALL CONTROL JOINT



LINTEL TYPE L-1



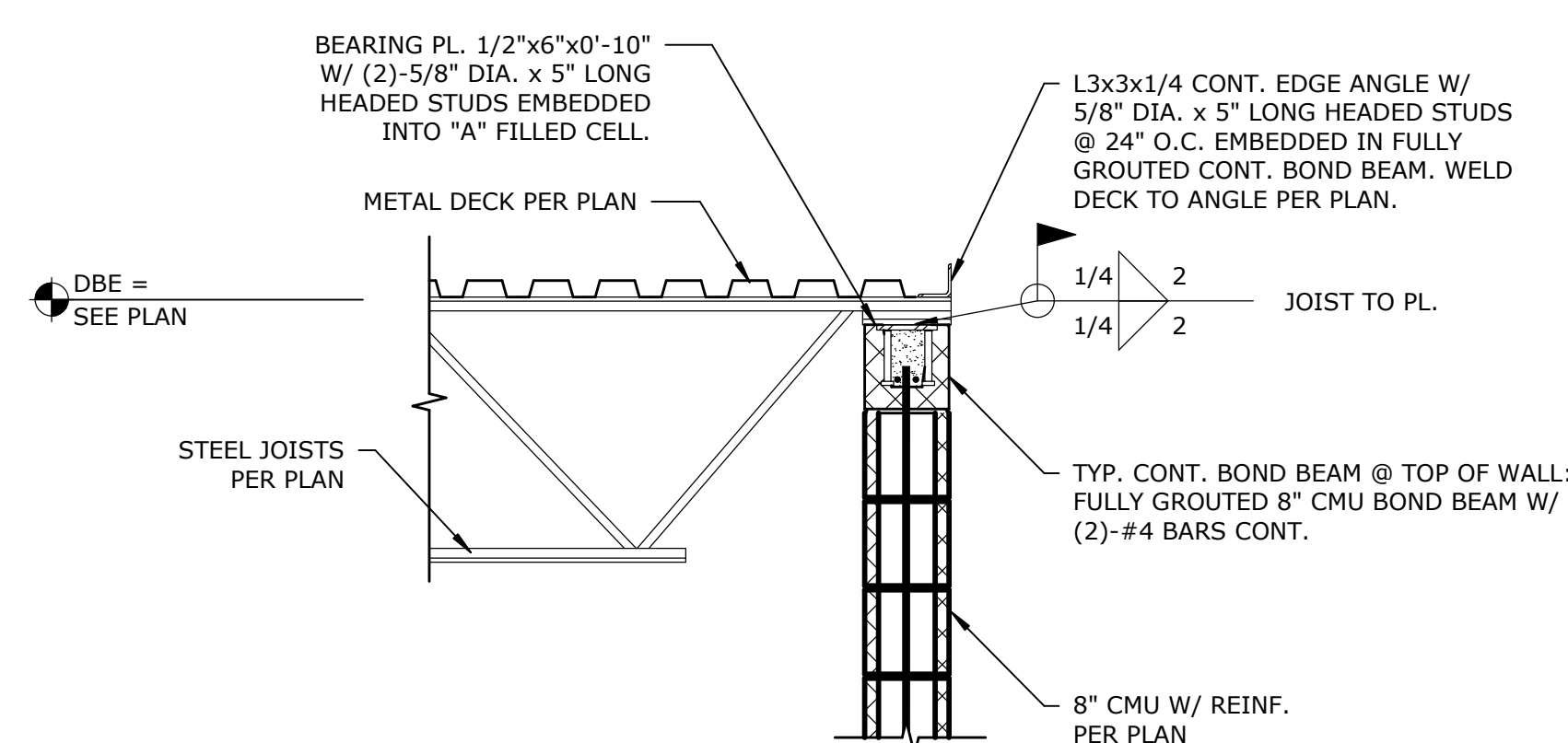
LINTEL TYPE L-2



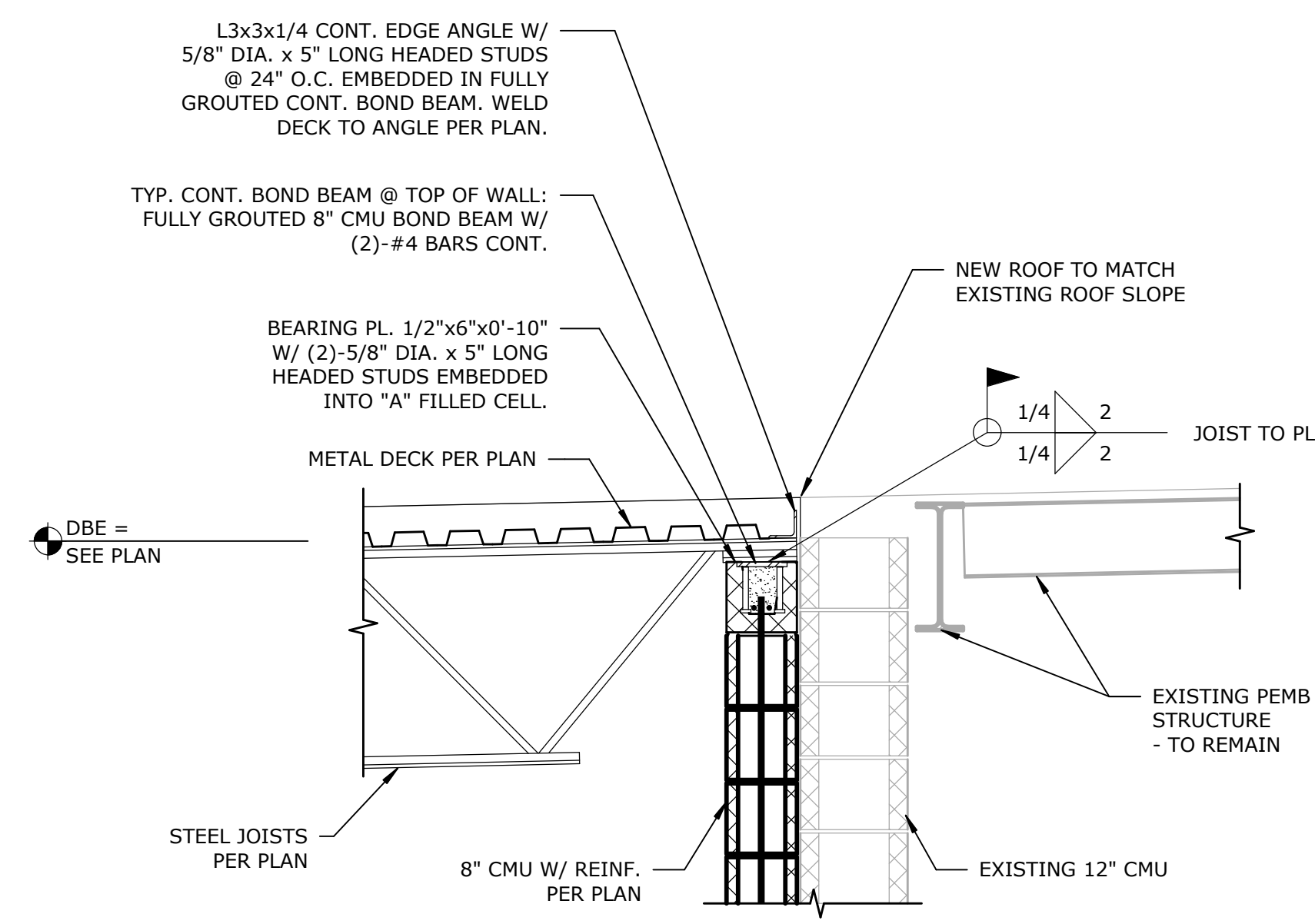
LINTEL L-1/L-2 BEARING ELEV

AS AN ALTERNATE TO HEADED STUDS, GC OPTION TO EPOXY DOWEL RODS INTO CMU, FULLY WELD TO PLATE, AND GRIND SMOOTH

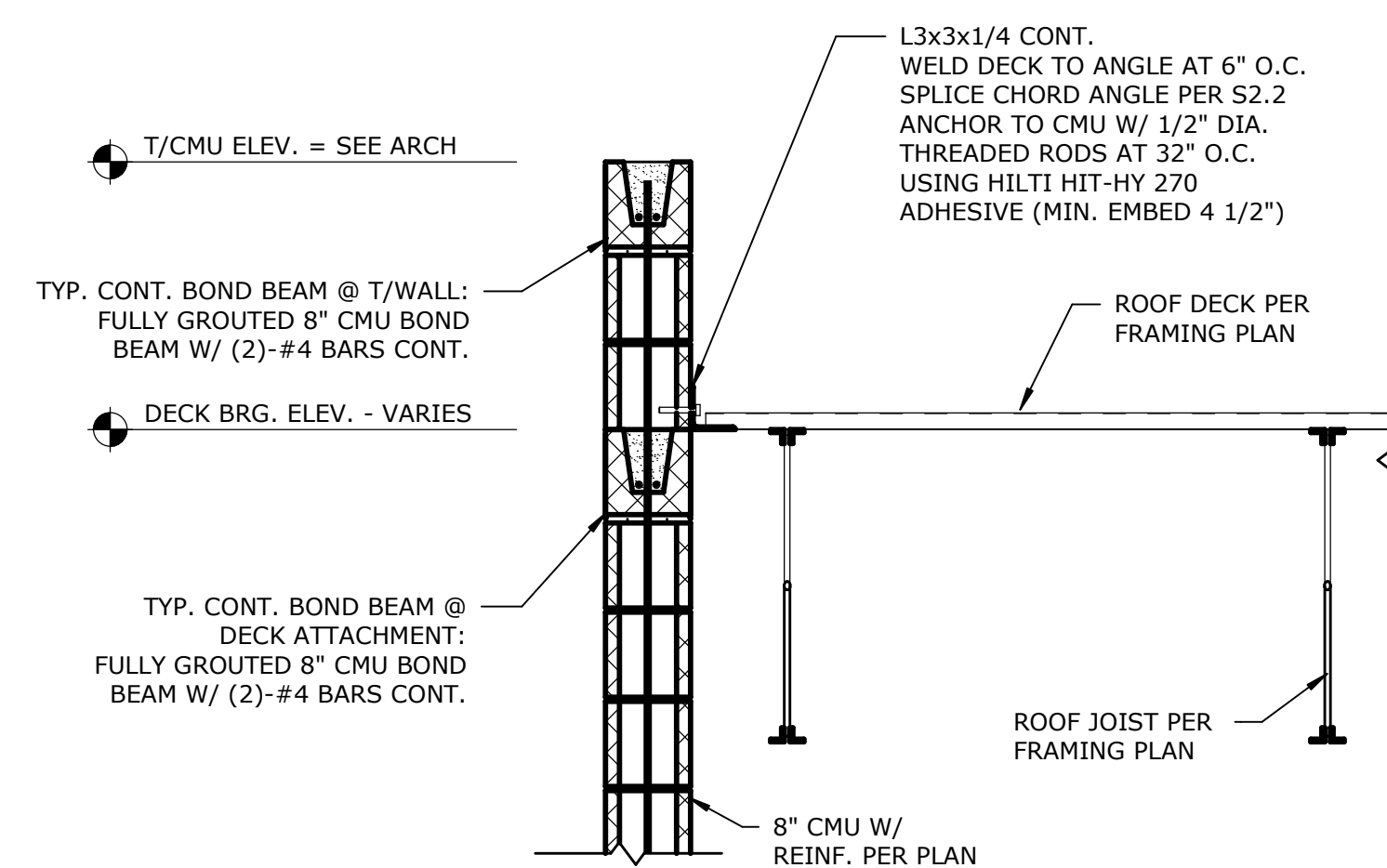
2 FILLED CELL LINTELS
S2 2 SCALE: 3/4" = 1'-0"



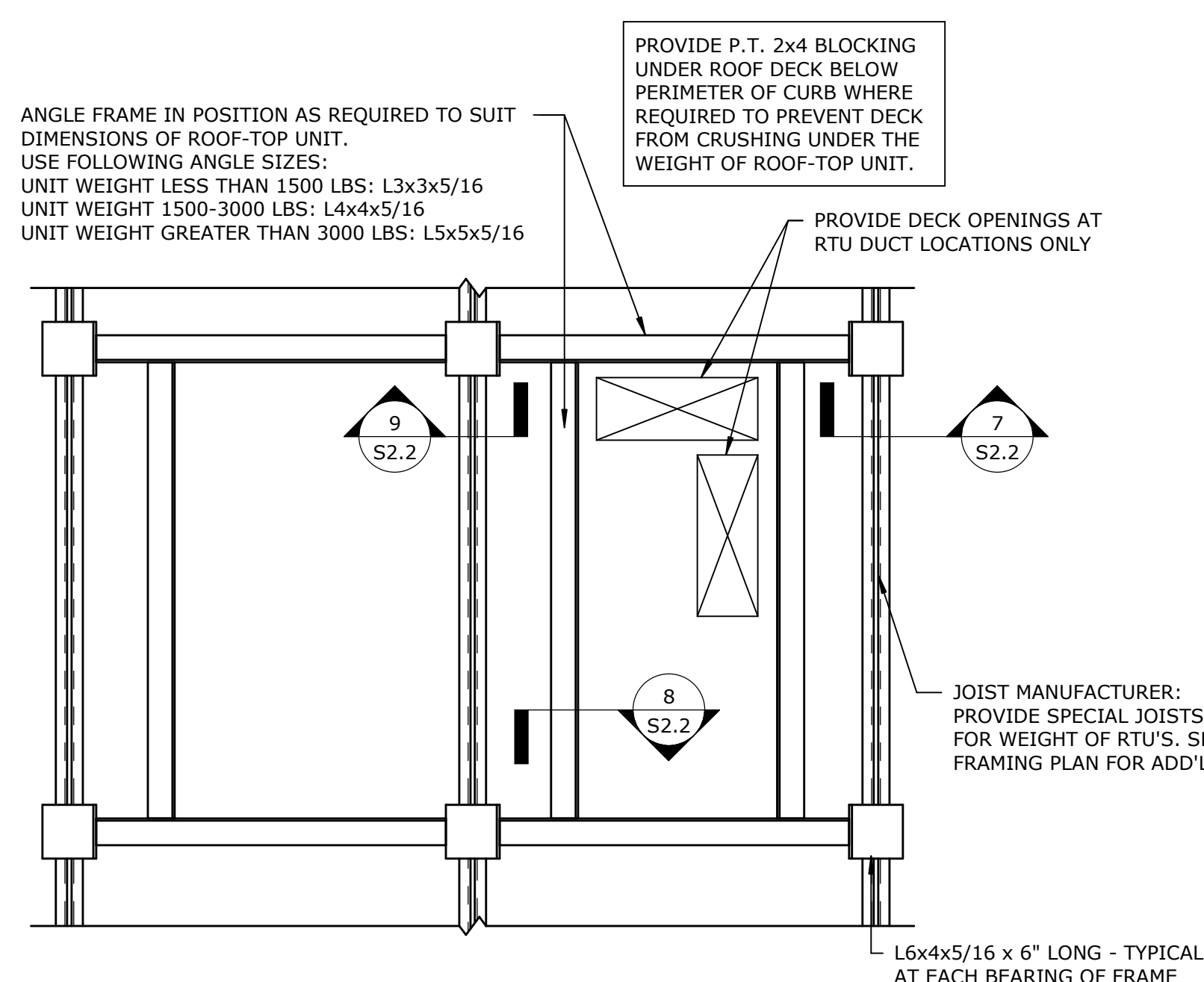
3 SECTION @ PUMP/ELECTRICAL ROOM BEAM END
S2 2 SCALE: 3/4" = 1'-0"



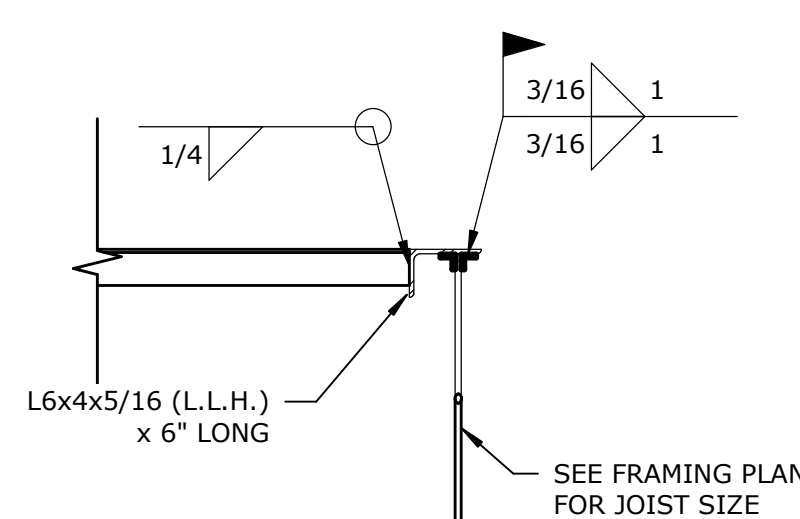
SECTION @ PUMP/ELECTRICAL ROOM BEAM END



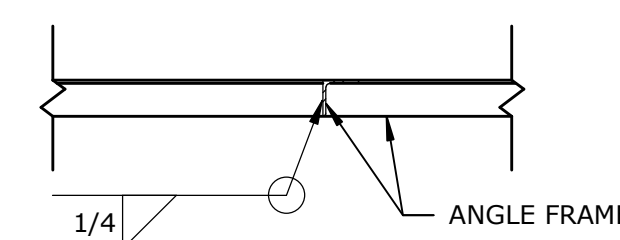
5 SECTION @ PUMP/ELECTRICAL ROOM PERIMETER
S2 2 SCALE: 3/4" = 1'-0"



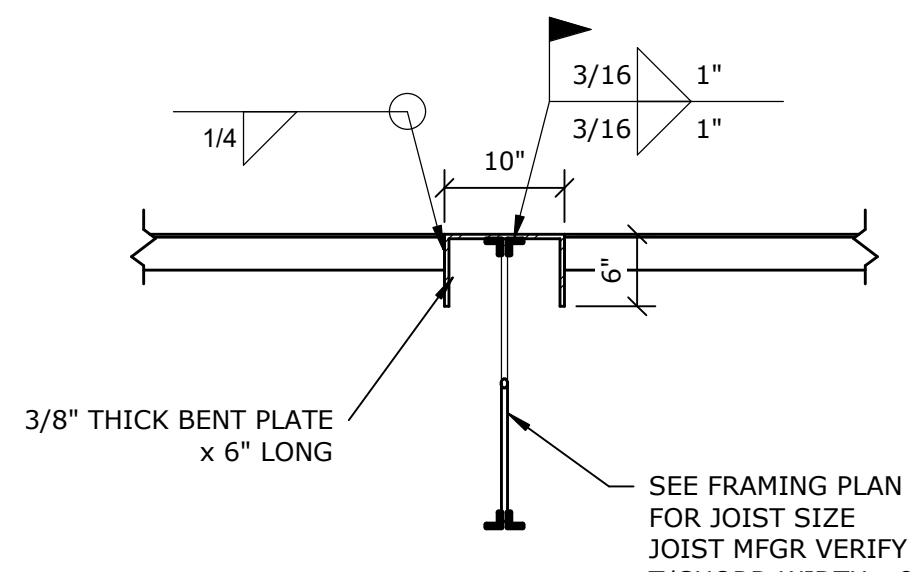
6 TYPICAL R.T.U. SUPPORT FRAME



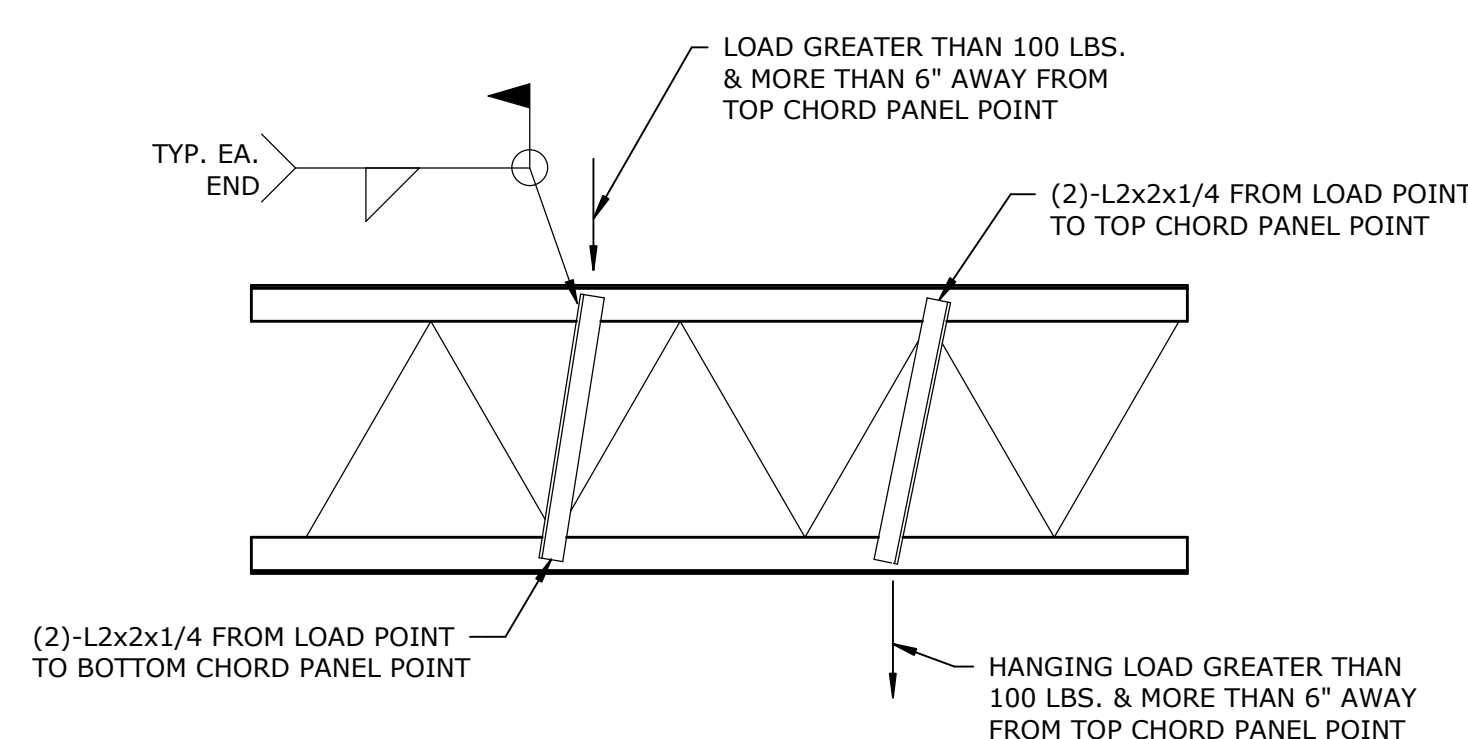
7 SECTION
S2.2 SCALE: 3/4" = 1'-0"



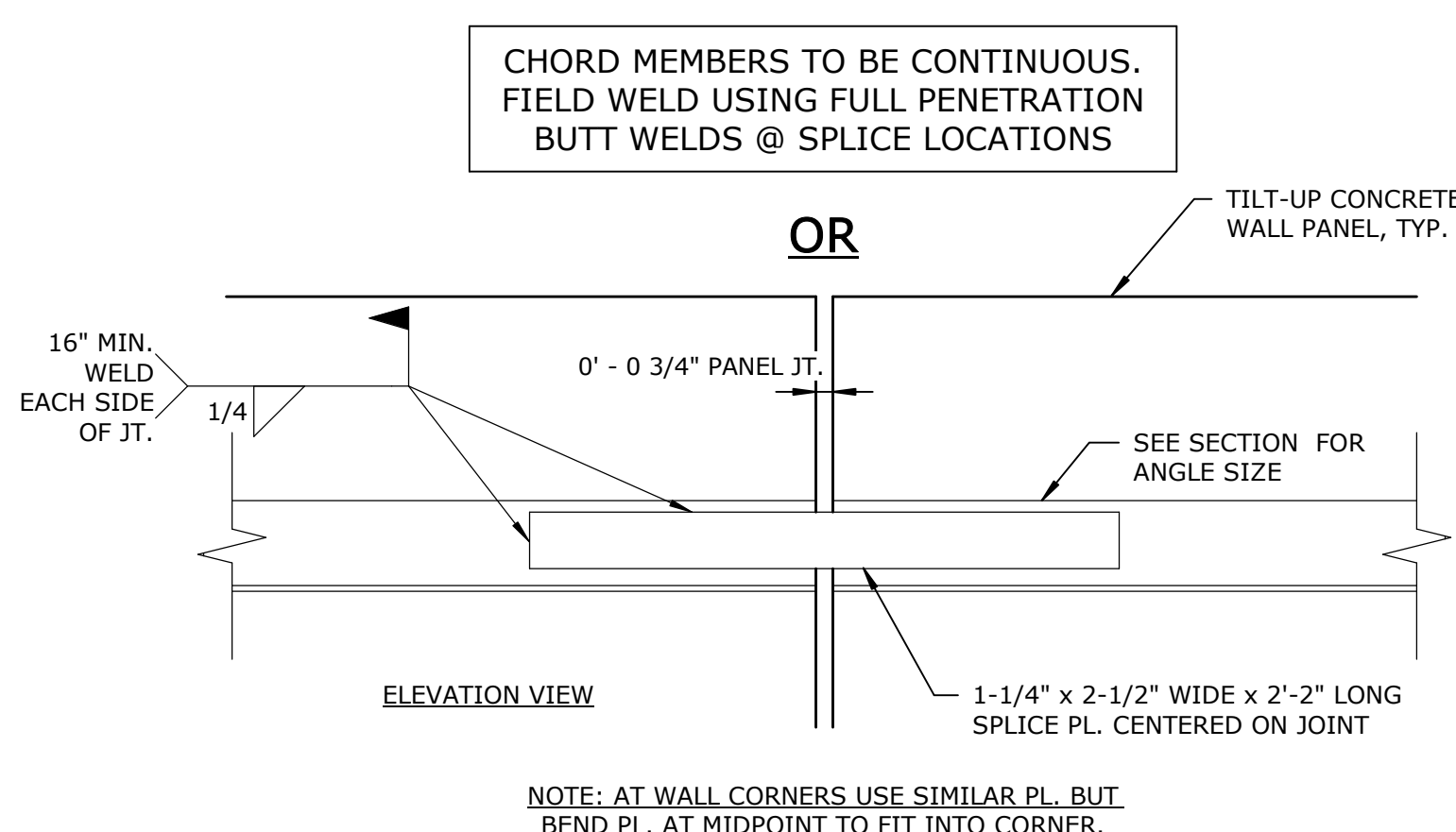
8 SECTION
S2.2 SCALE: 3/4" = 1'-0"



9 SECTION
S2.2 SCALE: 3/4" = 1'-0"



10 TYPICAL JOIST WEB REINFORCEMENT DETAIL
S2.2 SCALE: 3/4" = 1'-0"



11 TYPICAL CLOSURE ANGLE SPLICE



STATE OF TEXAS
★
DAVID H. LOVVORN
150364
LICENSED
PROFESSIONAL ENGINEER

architecture/interiors

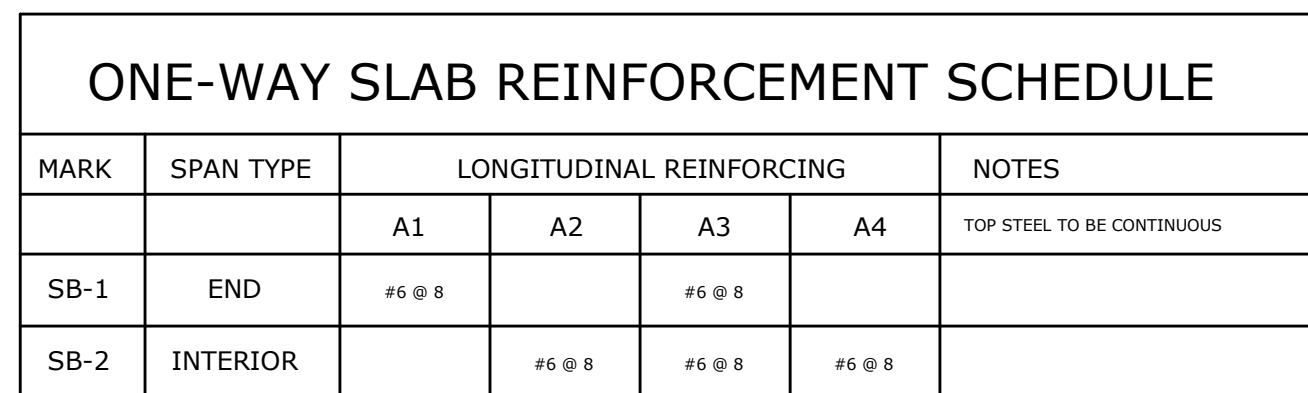
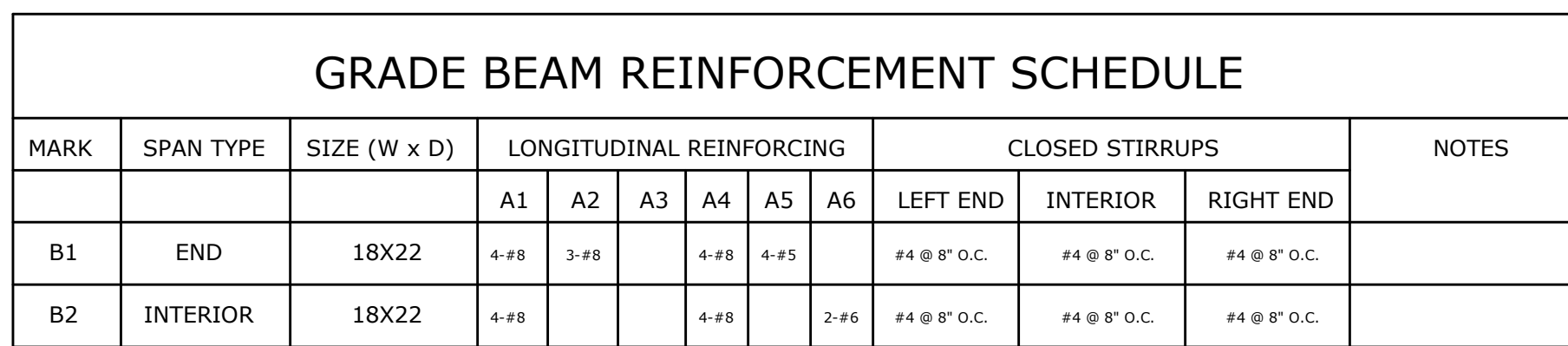
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TEXAS
(H-ROOM)**
for

[illegible]

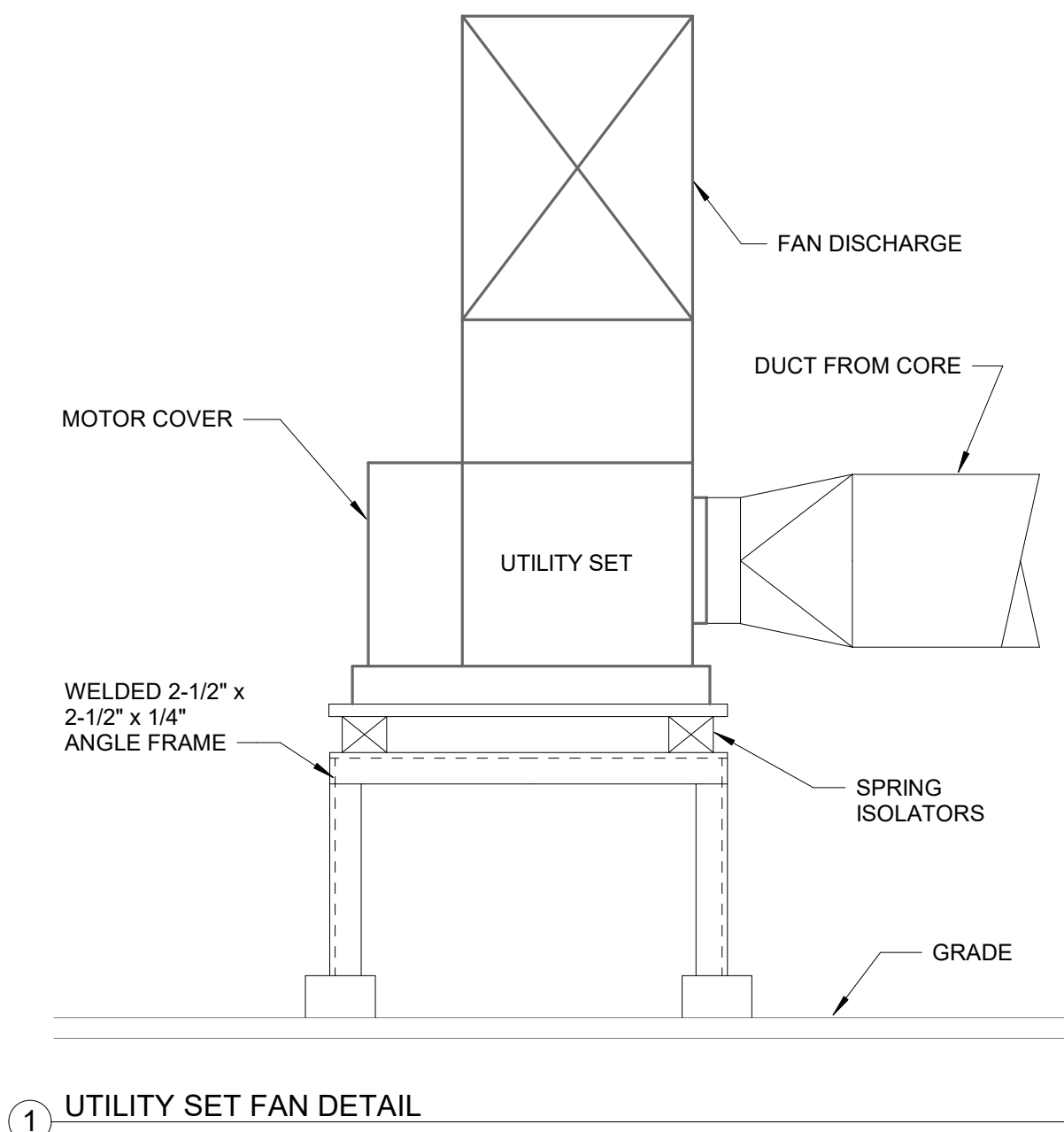
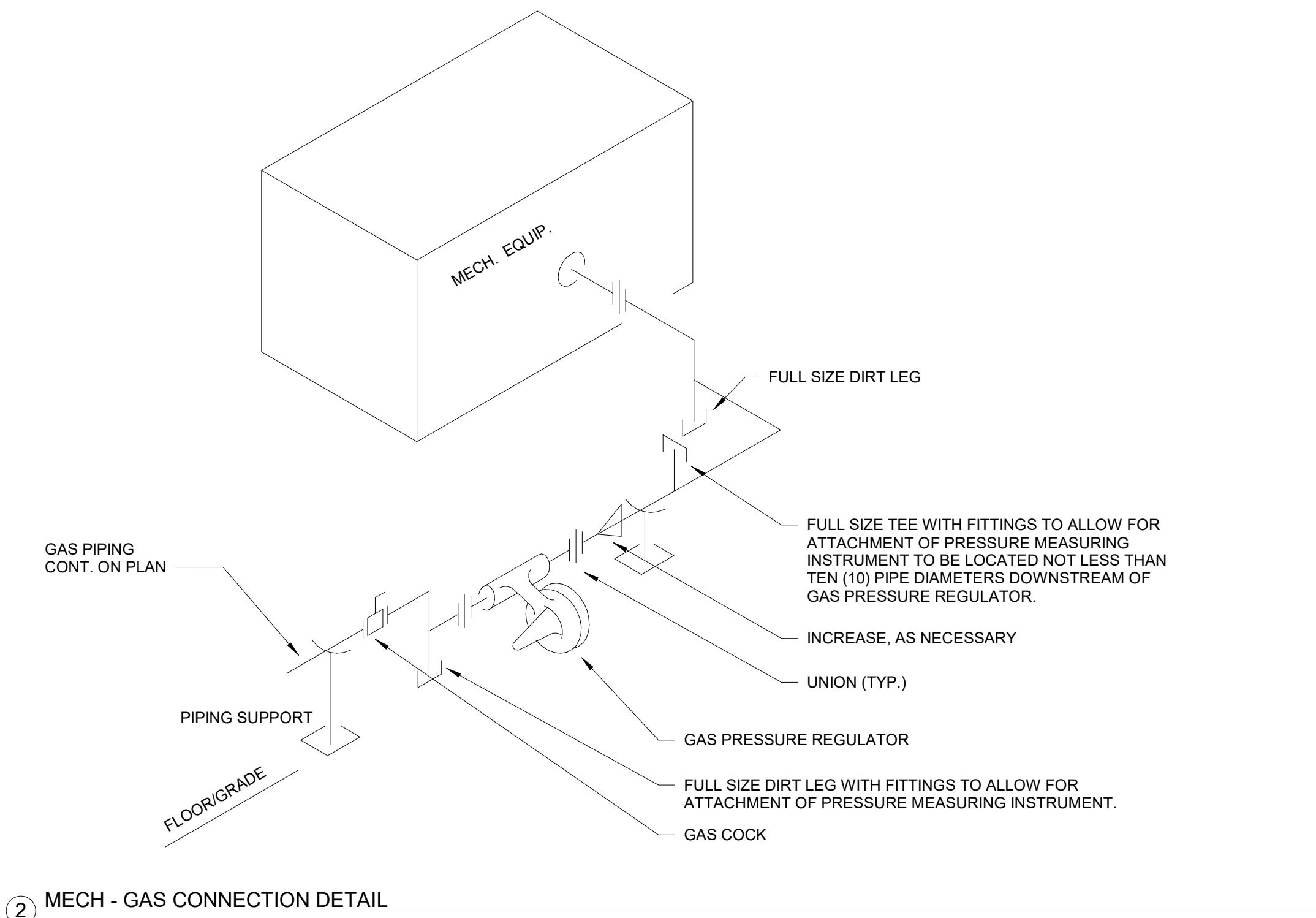
Date	Project No.
08/23/24	2023362.00
Sheet Title	
GRADE BEAM & SLAB	
SCHEDULES	

Sheet No.
S2.3

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2 BEAM LONGITUDINAL STEEL DIAGRAM



ABBREVIATIONS

A/C	ABOVE CEILING	HHWR	HEATING HOT WATER RETURN
AC	AIR CONDITIONING	HHWS	HEATING HOT WATER SUPPLY
AD	ACCESS DOOR	HWRR	HOT WATER REVERSE RETURN
ADJ	ADJUSTABLE	ID	INSIDE DIMENSION
AFF	ABOVE FINISHED FLOOR	IN	INCHES
AHU	AIR HANDLING UNIT	KW	KILOWATTS
AUTO	AUTOMATIC	LAT	LEAVING AIR TEMPERATURE
B/G	BELOW GRADE	LB	POUNDS
B/S	BELOW SLAB	LSD	LINEAR SLOT DIFFUSER
BAL	BALANCING	LWR	LOOP WATER RETURN
BCO	BASE CLEANOUT	LWS	LOOP WATER SUPPLY
BDD	BACKDRAFT DAMPER	MAX	MAXIMUM
BFLY	BUTTERFLY	MD	MANUAL DAMPER
BHP	BRAKE HORSEPOWER	MIN	MINIMUM
BOD	BASIS OF DESIGN	MOD	MOTOR OPERATED DAMPER
BOD	BOTTOM OF DUCT	MFR	MANUFACTURER
CD	CEILING DIFFUSER	NC	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NG	NATURAL GAS
CHWR	CHILLED WATER RETURN	NOM	NOMINALLY OPEN
CHWS	CHILLED WATER SUPPLY	OA	OUTSIDE AIR
CLEANOUT	CLEANOUT	OBD	OPPOSED BLADE DAMPER
COND	CONDENSATE	OD	OUTSIDE DIMENSION
CSR	CURVED SUPPLY REGISTER	PIU	POWERED INDUCTION UNIT
CW	COLD WATER (DOMESTIC)	PSI	POUNDS PER SQUARE INCH
CWR	CONDENSER WATER RETURN	RA	RETURN AIR
CWS	CONDENSER WATER SUPPLY	RAD	RADIUS
dB	DECIBELS	RAG	RETURN AIR GRILLE
DB	DRY BULB	RAR	RETURN AIR REGISTER
DN	DOWN	RED	REDUCER
DR	DRAIN	RL	REFRIGERANT LIQUID
DWG	DRAWING	RS	REFRIGERANT SUCTION
EA	EACH	RTU	ROOFTOP UNIT
EAT	ENTERING AIR TEMP.	SA	SUPPLY AIR
ECC	ECCENTRIC	SAN	SANITARY
EF	EXHAUST FAN	SD	SMOKE DAMPER
EFF	EFFICIENCY	SD	SLOT DIFFUSER
EG	EXHAUST GRILLE	SEN	SENSIBLE
ER	EXHAUST REGISTER	SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE	SQ	SQUARE
EWT	ENTERING WATER TEMP.	SR	SUPPLY REGISTER
EX	EXISTING	SS	SPLIT SYSTEM
EXH	EXHAUST	ST	STORM
F	FAHRENHEIT	TEMP	TEMPERATURE
FCO	FLOOR CLEANOUT	TG	TRANSFER GRILLE
FCU	FAN COIL UNIT	TYP	TYPICAL
FD	FIRE DAMPER	UON	UNLESS OTHERWISE NOTED
FLR	FLOOR	V	VENT
FOB	FLAT ON BOTTOM	VA	VALVE
FOR	FUEL OIL RETURN	VAV	VARIABLE AIR VOLUME
FOS	FUEL OIL SUPPLY	VTR	VENT THRU ROOF
FOT	FLAT ON TOP	WB	WET BULB
FPB	FAN POWERED BOX	WC	WATER COLUMN
FPM	FEET PER MINUTE	WHA	WATER HAMMER ARRESTOR
FPS	FEET PER SECOND	WT	WEIGHT
FSD	FIRE/SMOKE DAMPER	W	WASTE
FT	FEET		
G	GATE		
GA	GAUGE		
GPM	GALLONS PER MINUTE		
HD	HUB DRAIN		
HP	HORSEPOWER		
HTG	HEATING		
HW	HOT WATER (DOMESTIC)		



COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: 2024-1025 SRS Rockwall H-Room
Location: Rockwall, Texas
Climate Zone: 3a
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Mechanical Systems List

Quantity System Type & Description

- HVAC System (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 39 kBtu/h
Proposed Efficiency = 92.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Fan System: MAU-1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
Fans:
MAU-1 Supply, Constant Volume, 800 CFM, 0.5 motor nameplate hp, 0.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW
- Water Heater:
Gas Storage Water Heater, Capacity: 100 gallons, Input Rating: 250 kBtu/h
Proposed Efficiency: 80.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

John Edwards - Mechanical Engineer
Name - Title
Sheet is Signed.
Signature
10/02/2024
Date

FAN SCHEDULE												
I.D. TAG	AREA SERVED	CAPACITY (CFM)	SP (IN. WC)	MOTOR HP	DRIVE	MAX. FAN RPM	MAX. NOISE	VOLTS/ PHASE	TYPE OF FAN	WEIGHT (LBS)	BASIS OF DESIGN	REMARKS
EF-1	H ROOM	800	0.75	1/2	B	1,216	61 dBA	208/3	UTILITY SET	250	GREENHECK 8-BCSW-FRP	1, 2, 3, 4

- FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS. INTERLOCK TO TIMER AS NEEDED.
- INSTALL FAN ON 6" CONCRETE PAD ON GRADE OUTSIDE OF WAREHOUSE.
- PROVIDE FAN WITH VFD MOUNTED NEXT TO THE FAN. PROVIDE WITH NEMA 3R ENCLOSURE.
- PROVIDE FAN WITH DRAIN PLUG.

MAKE-UP AIR UNIT SCHEDULE													
I.D. TAG	OA AIRFLOW (CFM)	SUPPLY FAN SECTION		HEATING SECTION		WINTER CONDITIONS			WEIGHT (LBS)	VOLTS/ PHASE	BASIS OF DESIGN	REMARKS	
		EXT. SP (IN. WC) (1)	DESIGN HP	TYPE	CAPACITY (MBH) (5)	EAT °F	°F w/b --	Unit LAT °F					°F w/b --
MAU-1	800	0.75	1/2	GAS	38.8 / 35.7	28.7	--	70.0	--	1,000	208/3	GREENHECK DGX-P109-H12	1, 2, 3, 4, 5, 6, 7, 8

- THIS IS THE SP EXTERNAL TO THE ENTIRE FAN COIL UNIT ASSEMBLY (WET COIL, CASING, CLEAN FILTERS, AND FURNACE LOSSES ARE NOT INCLUDED IN THIS EXT. SP)
- PROVIDE WITH MOTORIZED LOW-LEAKAGE OA DAMPERS, DIRTY FILTER SENSOR, 2" 30% MERV 8 FILTERS.
- PROVIDE UNIT WITH POWERED GFI SERVICE RECEPTACLE, SINGLE-POINT ELECTRICAL CONNECTION, AND DISCONNECT. COORDINATE WITH DIVISION 26.
- UNIT SHALL BE HORIZONTAL/SIDE DISCHARGE.
- INPUT/OUTPUT CAPACITY.
- PROVIDE UNIT WITH DIRECT GAS FIRED HEATER WITH MODULATING INDUCER, MINIMUM 30:1 TURNDOWN LOW FIRE START CAPABILITY, GAS VALVE LEAK TEST, AND GAS STRAINER.
- PROVIDE CONTROLS TO VERIFY OA MOD IS OPEN PRIOR TO FURNACE FIRING.
- PROVIDE WITH SUPPORT STAND ON TOP OF 4" THICK BEVELED EDGE HOUSEKEEPING PAD.

MECHANICAL LEGEND	
	CEILING DIFFUSER
	CEILING RETURN AIR GRILLE
	CEILING EXHAUST GRILLE
	SUPPLY REGISTER
	SLOT DIFFUSER U.O.N.
	FIRE DAMPER U.O.N.
	MANUAL VOLUME DAMPER U.O.N.
	MOTOR OPERATED DAMPER
	THERMOSTAT
	HUMIDISTAT
	CARBON DIOXIDE SENSOR
	SMOKE DETECTOR
	CONNECT TO EXISTING
	NEW WORK
	WORK TO BE REMOVED
	SHUTOFF VALVE (BALL U.O.N.)
	CHECK VALVE
	BALL VALVE
	MOTOR ACTUATED GATE VALVE
	MOTOR ACTUATED 3-WAY VALVE
	CIRCUIT SETTER
	PRESSURE GAUGE
	GAUGE COCK
	FLOOR DRAIN
	FLOOR CLEANOUT
	WALL CLEANOUT
	HOSE BIBB U.O.N.
	KEYNOTE

BW & A Barrett, Woodyard & Associates, Inc.
1255 Crescent Green
Ste. 230 | Cary, NC 27518
Phone: 919-747-9884
BWA COOP 13267
BWA Project #: 2024-1025
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Roswell - Nashua



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Sheet Title: MECHANICAL LEGEND, ABBREVIATIONS, DETAILS, SCHEDULES
Sheet No.: M-001
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architects

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Date Signed: 10/14/2024

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for



2065 KRISTY LN
ROCKWALL, TEXAS 75082

Print Record	Dwg.	Chk.
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Revisions	

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10/14/2024	2023362.0
Sheet Title	MECHANICAL SPECIFICATIONS

Sheet No.
M-002
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&A
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& Associates, Inc.

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Ste. 230 | Cary, NC 27518
Phone: 919-747-9884
BWA COAH 13267

BWA Project #: 2024-1025
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other equipment so specified in other Sections.

3.11 OWNER TRAINING

- Owner training shall be provided for all systems and equipment and shall include the following:
 - 8-hours for overall system and individual equipment operational training
- A training summary and schedule shall be submitted to the Architect for approval within ninety (90) days of the date of substantial completion.

3.12 BID REQUIREMENTS

- The Contractor shall include all systems, equipment and accessories shown on the plans and specifications.
- The Contractor is responsible for providing all design documents to all SubContractors. All systems, equipment and accessories shall be included in the bid, whether shown on the SubContractor applicable plans or other design documents.
- Should any discrepancy occur in the Design Documents, the Contractor shall provide a request for clarification prior to bid or note the discrepancy in the bid and provide an appropriate cost allowance in the bid.
- The Contractor shall acknowledge that the Design Documents are diagrammatic and shall provide all systems, equipment and accessories required for a complete facility. Any areas that appear to be void of systems or inappropriate systems shall be noted in the bid. No post bid change order shall be considered for areas or discrepancies not noted in the bid.
- All installation coordination and means and methods and labor and materials required for proper system installation shall be included.
- These requirements are in addition to bid procedures and requirements of the RFP or general specifications.

END OF SECTION

SECTION 23 05 93

TESTING, ADJUSTING, AND BALANCING FOR HVAC

1.0 GENERAL

1.01 DESCRIPTION

- All work specified in this Section is governed by the Common Work Results for HVAC Section 23 05 00.
- This Section 23 05 93 and the accompanying drawings cover the provision of all labor, equipment, appliances, and materials and performing all operations in connection with the testing and balancing (T&B) of the heating, ventilating and air conditioning (HVAC) systems as specified herein and as shown. These systems include, but are not limited to, the following:
 - Supply distribution systems
 - Return and exhaust air systems
 - Heating, ventilating and air conditioning equipment (all scheduled equipment as a minimum)

1.02 INTENT

- It is the intent of this Section of the specifications to provide a complete operable and balanced HVAC system as shown and specified which is reasonably airtight, comfortable, and free of objectionable noise and vibration.

1.03 SCOPE OF WORK

- HVAC test and balance shall be performed by an Independent Agency certified by the Associated Air Balance Council (AABC) or National Environmental Balancing Bureau (NEBB) with an direct contract to the General Contractor. All work performed by this Agency shall be performed by qualified Technicians under the direct supervision of an AABC or NEBB Certified Test and Balance Engineer. The Agency shall be independent and shall not be associated in any way with the installing HVAC SubContractor.
- HVAC Test and Balance shall be performed in accordance with the 7th edition of the AABC National Standards, 2016 for Total System Balance or the NEBB Procedural Standards for TAB of Environmental Systems, 8th Edition, 2015 together with the NEBB TAB Manual for Technicians, 2nd Edition.
- The final Test and Balance report shall serve to substantiate compliance with the intent of the Contract Documents, specifically the HVAC systems.
- HVAC Test and Balance shall not begin until the systems are substantially complete.
- Upon the completion of the Test and Balance work, the Agency shall submit four (4) copies of the complete HVAC Test and Balance Report directly to the Architect.
- The Agency, as a part of its contract with the General Contractor, shall act as an Authorized Inspection Agency, responsible to the General Contractor and the Architect and shall, during the test and balance, list those items which require correction or have not been installed in accordance with the Contract Documents.
- The Agency shall plainly mark the settings of all valves, dampers, and other adjustable devices. If a balancing device is provided with a memory stop, it shall be set, locked and marked.
- The Agency shall record all of the final set points on all variable speed drives.

1.04 SUBMITTALS

- The name and certification of the Agency, along with the name and certification of the Certified Test and Balance Engineer, shall be submitted to the Architect for review within 30 days after the award of the General Contract.
- The selected Agency shall submit to the Owner:
 - Procedural Manual
 - Report Forms
 - AABC or NEBB Performance Guaranty
 - Instrument List and Calibration Dates
 - Schedule
 - Floorplans as Needed to Uniquely Identify Device Locations
- A reviewed copy of each of the above shall be returned to the Agency before the HVAC Test and Balance begins.
- If a complete submittal in accordance with these requirements is not received within 60 days from award of the General Contract, then the Architect reserves the right to select the Agency.

2.0 PRODUCTS

2.01 (Not applicable).

3.0 EXECUTION

3.01 GENERAL CONTRACTOR'S DUTIES

- The General Contractor shall provide the following, within 10 days after his receipt, to the Agency:
 - Contract Drawings
 - Contract applicable specification Division 23 (others as applicable)
 - Addenda
 - Change orders
 - Reviewed submittals
- The General Contractor shall start-up and maintain the HVAC systems and shall continue the operation of the HVAC systems during each day of testing and balancing. Start-up and operation shall include, as a minimum, the following:
 - All equipment operable and in safe condition.
 - Temperature control system complete.
 - Proper thermal overload protection in place for electrical equipment.
 - Ductwork leakage rates not exceeding those specified and all duct systems clean of debris.
 - Air transfer systems shall have:
 - Correct fan rotation and RPM.
 - Coil fins cleaned and cleaned.
 - Filters clean and in place.
 - Access doors closed.
 - All dampers in place and open.
 - All grilles, registers and diffusers installed.
- Provide sufficient time before final completion date so that testing and balancing can be accomplished. Coordinate the submitted T&B schedule.
- Provide immediate labor and tools to make required corrections and repairs without undue delay.
- The General Contractor and his SubContractors shall cooperate fully with the Agency to provide the following:
 - Access to HVAC system components.
 - The right to adjust the systems.
- Any conditions which prevent a proper HVAC Test and Balance shall be reported by the Agency to the General Contractor and Architect within 7 days of their discovery.

END OF SECTION

SECTION 23 11 23

NATURAL GAS PIPING

specified control sequences. All electrical connections shall be specifically coordinated with Division 26 and any necessary scope included as part of Division 23.

- All control wiring over 30 volts shall be installed by a licensed Electrician working under this Division 23.

1.08 SLEEVES, SEALS AND ESCUTCHEONS

- This Division 23 and the accompanying drawings cover the provision of all labor, equipment, appliances, and materials and performing all operations in connection with the construction of the air conditioning, ventilating, heating, fire suppression and plumbing systems as specified herein and as shown.
 - The General Provisions and Division 01, including the general, supplementary and other conditions and other Divisions, as appropriate, apply to work specified in this Division.
- 1.02 EXISTING CONDITIONS
- Attention is called to the fact that the work is to be performed within an existing facility. Prior to the submission of bids, each bidder shall visit the project site, thoroughly investigate and be familiar with all existing conditions which will affect their work; especially the work to be performed above the existing ceilings.
 - Connect new work to existing work in a neat and workmanlike manner. Where an existing structure must be cut or existing utilities interfere, such obstructions shall be bypassed, removed, replaced or relocated, patched and repaired. Work disturbed or damaged shall be replaced or repaired to its prior condition.
 - Prior to the start of any demolition or construction, secure the services of a qualified, EPA Certified Asbestos Abatement Agency to check the existing insulation, etc. for asbestos. Should asbestos be found, do not proceed with demolition or construction; notify the Architect in any case in writing of the Agency's findings.

1.03 INTENT OF DRAWINGS AND SPECIFICATIONS

- The implied and stated intent of the drawings and specifications is to establish minimum acceptable standards for materials, equipment, and workmanship, and to provide operable mechanical systems complete in every respect.
- The engineering drawings are diagrammatic, intended to show general arrangement and sizes of system components, and shall not be scaled. Rather, the architectural and structural drawings shall govern space constraints, dimensions, and finishes. All offsets and fittings which will be necessary to accomplish the finished installation shall be provided at no additional cost or increase in the Contract.

1.04 SPACE PRIORITY

- Ensure optimum use of available space for materials and equipment installed above ceilings. Allocate space in the order of priority as listed below except as otherwise detailed. Items are listed in the order of priority, with items of equal importance listed under a single priority number.
 - Gravily flow piping systems
 - Vent piping systems
 - Recessed lighting fixtures
 - Concealed HVAC terminals and equipment
 - Air duct systems
 - Sprinkler piping systems
 - Pressurized piping systems
 - Electrical conduit, wiring, control air tubing
- Order of space priority does not dictate installation sequence. Installation sequence shall be as required to install all affected trades.
- The work of this Division 23 shall not obstruct access for installation, operation, and maintenance of the work of any other Division.
- All major items of equipment shall be arranged so as to provide a minimum of 28" clear aisle space. Additional space shall be provided between and around equipment for maintenance and proper operation as shown in the Equipment Manufacturer's literature.

1.05 COORDINATION

- Coordinate all work under this Division 23 with work under all other Divisions, providing adjustment as necessary.
- Coordination of space requirements with respect to Division 26 shall be performed such that:
 - No equipment, piping or ductwork, other than electrical, shall be installed within 42" of switchboards or panelboards.
 - No piping or ductwork which ever operates at a temperature in excess of 120°F shall be installed within 3" of any electrical conductor.
- All items mounted in or below the ceiling, and all items penetrating the ceiling, shall be coordinated with the architectural reflected ceiling plans. If any items are not shown on these plans, or any items need to be relocated for coordination purposes, prepare a reflected ceiling plan and submit it to the Architect for approval.
- Fused disconnects shall be provided under this Division 23 for all equipment connected directly to bus duct, and rating shall match bus duct rating. Coordinate with Division 26.

1.06 CODE COMPLIANCE

- All workmanship and materials provided under this Division 23 shall comply with all laws, ordinances, codes and regulations of all Federal, State and Local Authorities Having Jurisdiction.
- All fire suppression, plumbing, heating, ventilating, and air conditioning materials and workmanship shall comply with the current codes and standards as minimum requirements:
 - National Electrical Code – 2020 Edition
 - International Building Code (w/ Local Amendments) – 2021 Edition
 - International Mechanical Code (w/ Local Amendments) – 2021 Edition
 - International Plumbing Code (w/ Local Amendments) – 2021 Edition
 - International Fuel Gas Code (w/ Local Amendments) – 2021 Edition
 - International Energy Conservation Code (w/ Local Amendments) – 2021 Edition
 - International Fire Code (w/ Local Amendments) – 2021 Edition
 - NFPA 101 Life Safety Code – 2003 Edition
 - Texas Accessibility Standards – 2012 Edition
 - American with Disabilities Act, January 26, 1992
 - American National Standard Handicapped Code, A117.1 – 1986 Edition
 - ASME A17.1 Safety Code Elevators and Escalators, 2013 Edition
- Secure and pay all fees associated with all permits and licenses required for execution of the Contract. Arrange for all inspections required by City, County, State, and other Authorities Having Jurisdiction, and deliver certificates of approval to the Architect.
- The code requirements are strictly a minimum and shall be met without incurring additions to the Contract. Where requirements of the drawings or specifications exceed the code requirements, the work shall be provided in accordance with these drawings or specifications. In the event of conflict or ambiguity between the various codes, the most stringent requirement shall govern.

1.07 ELECTRICAL REQUIREMENTS AND INTERFACE

- All electrical equipment and wiring provided under this Division 23 shall comply with the electrical system characteristics indicated on the electrical drawings and specified in Division 26.
- Electric controls, contactors, starters, pilot lights, push buttons, etc., shall be provided complete as part of the motor, heater, or other equipment which it operates. All electrical components shall be in conformance with the requirements of the National Electrical Code and Division 26. Starters shall be wye-delta, closed transition type. Reference Division 26 and the electrical engineering drawings for those motor starters provided under that Division 26. All starters not shown shall be provided under this Division 23. Unless specified otherwise under other individual equipment Sections, motor starters shall conform to the following minimum requirements:
 - Starters for motors 1/3 horsepower or smaller shall be manual unless remote or automatic starting is required, in which case the starters shall be magnetic, full voltage, non-reversing, single-speed, unless otherwise indicated. All other starters shall be magnetic.
 - Individually mounted motor starters shall be in a NEMA Type 1 general purpose enclosure in unfinished areas and shall be flush mounted in all finished areas. All starters mounted in exterior areas shall have a NEMA 3R enclosure. Each starter shall have a laminated nameplate to indicate equipment unit number, function and circuit number.
 - All motor starters, push buttons and pilot lights shall be of the same Manufacturer as the switchboard and shall be General Electric, Square D, Siemens I.T.E., or Westinghouse.
- Motor starters for the following equipment shall be provided under this Division 23 by the Manufacturer of the equipment.
 - Other equipment hereinafter specified in other Sections to be provided with integral starters
- All power wiring and final connections to equipment shall be provided under Division 26.
- Control components, all interlocks, (VAVs, actuators, smoke dampers, fire/smoke dampers, motor-operated dampers, fire alarm motors, etc.) and control wiring (277 volt, single phase and less) shall be provided under this Division 23 as required to achieve the

- Are submitted as complete packages which pertain to all related items in Division 23. Separate packages shall be submitted as follows:
 - All HVAC equipment and components
- Are properly marked with equipment, service, or function identification as related to the project and are marked with pertinent specification paragraph number

- Submit catalog information, factory assembly drawings, field installation drawings and certifications as required for complete explanation and description of all items of equipment. The submittal data shall provide ample, unquestionable compliance with the Contract Documents.
- Review of submittals shall not be construed as authorizing any deviations from the plans and specifications unless such deviations are clearly identified and separately submitted in the form of a letter that is enclosed with the submittals.

- Submittals are required on all manufactured equipment, especially energy consuming equipment. Submittals shall include, but are not limited to, the following items of equipment:
 - Piping and Piping Specialties
 - Ductwork and Piping Insulation
 - Split Systems
 - Air Distribution Devices
 - Ductwork Accessories (Including All Dampers)
 - Fans
 - T&B Company Certifications and Final Report

3.02 INSTALLATION REQUIREMENTS

- All equipment shall be installed in strict conformance with the recommendations of the Equipment Manufacturer, as indicated on the Drawings and as specified.
- Provide installation manuals for each piece of equipment. Submit in separately bound volumes after review of submittals.
- Provide supplementary steel framing and welded steel equipment support stands as required for proper hanging and support of the mechanical systems. Steel angles, channels and tubing utilized for such framing shall be selected for a maximum deflection of 1/360th of the span.
- All roof curbs shall be a minimum of 12" high and selected for the various roof pitches. Curbs installed on roofs having pitches of not more than 1/4" per foot may be standard curbs shimmed level with steel channels or Zs to provide suitable support and flashing surfaces.

3.03 CLEANING, LUBRICATION AND ADJUSTMENT

- The exterior surfaces of all mechanical equipment, piping, ductwork, conduit, etc., shall be cleaned and free of all dirt, grease, oil, paint splatter, and other construction debris.
- Bucts, plenums, and air unit casings shall be cleaned of all debris and either vacuumed or blown free of all rubbish, dirt, and dust before installing grilles, registers, or diffusers.
- Bearings that require lubrication shall be lubricated in strict accordance with the manufacturer's recommendations.
- All control equipment shall be adjusted to the settings required for the performance specified.
- Fans shall be adjusted to the speed indicated by the Manufacturer to meet the installed final system pressure at the airflow indicated. Any additional shaves and belts required for final adjustments shall be provided with no increase in the Contract amount.
- For any fans operated during construction shall have temporary filters. Temporary filters shall be changed regularly to minimize contamination of the equipment and duct systems. Permanent filters shall be installed prior to final inspection.
- All coils shall be thoroughly cleaned and combed prior to final inspection.
- All materials, equipment, etc. subject to weather, corrosion, dust, debris, water etc. to be under the direct contract to the General Contractor. This is inclusive of piping and duct openings and internal fan ventilation intakes and discharges. This Division's scope includes protection and remediation of any and all Division materials, etc. including cleaning, vacuuming, dusting, etc. required for a clean system and operation. Installation and equipment with electrical connections subject to water shall be replaced in their entirety. Coordinate with all other trades and schedules.

3.04 PAINTING

- All uncoated and uninsulated steel surfaces exposed to sight inside the building, such as piping, equipment hangers and supports which are not provided with factory prime coat or galvanizing, shall be cleaned and painted with one coat of rust inhibiting primer. In addition, all surfaces in finished spaces shall also be painted with two coats of finish paint in a color selected by the Architect.
- All ductwork surfaces, piping, supports, etc. visible through grilles, registers and diffusers in finished areas shall be painted flat black. All ductwork, equipment, piping, supports, air distribution, etc. visible in exposed finished areas shall be painted a color selected by the Architect, except that nameplates shall not be painted.
- Steel items exposed outside the building, such as equipment supports, uninsulated piping and hangers, which are not factory painted or galvanized, shall be cleaned and painted with one coat of rust inhibiting primer and two coats of asphaltic base aluminum paint. Insulated steel pipes outside the building shall be cleaned and painted with one coat of rust inhibiting primer before installing insulation.
- Factory painted equipment that has been scratched or marred shall be repainted to match the original factory color.

3.05 DUCTWORK AND PIPING LEAK TESTING

- Insulated and concealed ductwork and piping shall be tested for leaks in place before concealing or covering. Tests shall be conducted in the presence of the Architect or their designated Representative.
- All low pressure ductwork (design operating pressure of 1.0" WC ESP or less) shall be tested by the operation of the system to which it is connected.
- All visible and audible air leaks from the ductwork systems shall be repaired.
- All refrigerant piping shall be 100% tested with the applicable ASHRAE standard – latest version.
- All leaks shall be repaired by tightening, remaking joints, or replacing pipe and fittings. Caulking of joints shall not be permitted.

3.06 RECORD (AS-BUILT) DRAWINGS

- At the completion of the project, provide a set of reproducible prints to the Architect which reflects all changes, deviations and revisions made to the original design documents. Locations of all underground piping and utilities shall be clearly shown and dimensioned from permanent reference points such as building column lines.

3.07 OPERATING AND MAINTENANCE MANUALS AND INSTRUCTIONS

- Complete operating and maintenance manuals shall be provided to the Owner. Four copies shall be provided. Each copy shall be bound in a separate 3-ring, loose-leaf notebook. Operating instructions shall be provided for each mechanical system, and shall each include a brief system description, a simple schematic and a sequence of operation. Operating and maintenance instructions shall be provided for each piece of equipment. A control system wiring diagram shall be included in each operating and maintenance manual.
- Prior to final acceptance or beneficial occupancy, provide the services of a Competent Technician for not less than one (1) day to instruct the Owner in the operation of the mechanical systems.

3.08 TESTING AND BALANCING

- Testing and balancing of the HVAC system shall be performed as specified in Section 23 05 93. Note that this work is to be performed under a separate Contract directly under the General Contractor. Submit four (4) copies of the test and balance report directly to the Architect.

3.09 PIPING SUPPORTS

- Pipe hangers or supports shall be provided within 18" of each horizontal fitting, equipment connection, valve, etc. and within 18" of the centerline of horizontal or vertical changes in direction summing to 90° or more. Specific attention is called to vertical turns into risers.
- Piping supports shall be provided, at a minimum, in accordance with the greater of the below or at code minimum. Where the below or code does not address support for specific piping, supports shall be in accordance with manufacturer's requirements.
 - Max. Hgt. Spacing: Max. Vert. Spacing
 - Copper tubing ≤ 1-1/4" dia. 6" 10"
 - Copper tubing ≥ 1-1/2" dia. 10" 10"
 - PVC pipe 4' 10"

3.10 WARRANTY

- All work provided under this Division 23 shall be subject to a minimum one year warranty. The warranty shall include prompt repair or replacement of equipment or system failures and shall include all parts, refrigerant, and labor. In addition, all compressors shall carry an additional four year parts-only warranty. Extended warranties shall be provided on all

1.0 GENERAL

1.01 DESCRIPTION

- A. All work specified in this Section is governed by the Common Work Results for Plumbing Section 22 05 00.
- B. This Section 23 11 23 and the accompanying drawings cover the provision of all labor, equipment, appliances, and materials and performing all operations in connection with the construction of the systems as specified herein and as shown. These systems include, but are not limited to, the following:
1. Natural gas systems

1.02 INTENT

- A. It is the intent of this Section of the specifications to provide complete and operable system as shown and specified which is free of leaks, properly vented, free of unreasonable noise, vibration, and fabricated so as to fit the space allotted.
- B. The word "piping" is defined to mean all piping, fittings, joints, hangers, coatings, valves, cocks, and accessories necessary for the system described, shown, and specified.

1.03 GENERAL REQUIREMENTS

- A. Provide all reducing fittings, flanges, couplings and unions of the size and type of material to match the piping connections at each fixture, piece of equipment, valve, and accessory.
- B. All pipe and fittings shall be products of a domestic Manufacturer.
- C. Union joints, couplings or flanges shall be provided in each pipe line connected to each piece of equipment, fixture and elsewhere as indicated and specified. Unions shall match the piping system in which they are installed.
1. Unions or flanges shall be provided between all copper to steel connections. These unions shall be dielectric, insulating type.
- D. All changes in direction and branches shall be made with manufactured fittings.
- E. All pipe joints shall be cut square and all burrs shall be removed.
- F. Open ends of pipe lines not currently being handled shall be plugged during installation to keep dirt, water, and foreign material out of the system.
- G. This scope shall be part of Division 22 scope unless otherwise arranged within the Contract. Coordinate with Division 22.

1.04 IDENTIFICATION OF PIPING

- A. See specification Section 22 05 00 for all requirements.
- B. In addition, the natural gas piping shall be painted yellow, in accordance with ANSI standards, with point suitable for the piping location. Paint shall be corrosion-resistant and continuous through all supports, penetrations, sleeves, etc.

2.0 PRODUCTS

2.04 NATURAL GAS PIPING

- A. Piping shall be Schedule 40 black steel complying with ANSI B36.10 or ASTM A 53. Fittings shall be steel or malleable iron. Joints shall be threaded or welded.
- B. Gas cocks shall meet ANSI B16.33.
- C. Piping installed underground outside may be medium density polyethylene, conforming to ASTM D2513. Coordinate selection with all installation location and connection requirements. Connections to equipment shall be made with piping per the materials listed in this specification. Provide and install transitions as required.
- D. For Seismic Design Category C or D, all natural gas piping shall be seismically restrained in accordance with code requirements. Restraints shall be by Mason or approved equal. Submit shop drawings on seismic restraint systems.

2.05 PIPE HANGERS AND SUPPORTS

- A. See specification Section 22 05 00 for all requirements.

2.06 REGULATORS

- A. Regulators shall be appropriate for the installation in which they are installed, including weather-rated as appropriate. Provide and install all accessories as necessary.
- B. Regulators installed inside or within 15' of any outside air intake, including doors and operable windows, shall be ventless. Where ventless regulators are not available, regulator shall have vent piped to outside in accordance with manufacturer's recommendations. Route and size shall be in accordance with manufacturer's recommendations.

3.0 EXECUTION

3.01 ARRANGEMENT

- A. Follow the general piping layout, arrangement, schematics and details. Provide all offsets, vents, drains and connections necessary to accomplish the installation. Fabricate piping accurately to measurements established at the project site to avoid interference with ductwork, other piping, equipment, openings, electrical conduits and light fixtures. Make suitable provision for expansion and contraction with expansion loops and offsets.

3.02 MINIMUM HANGER SPACING

- A. See specification 22 05 00 for all requirements.

3.03 INSTALLATION

- A. Piping installed outside shall be elevated above grade a minimum of 3.5" and shall be securely supported.
- B. Piping penetrating floor slabs, walls, etc. shall be protected from damage and corrosion as required by Code.
- C. Regulators shall be provided under this scope for each gas-fired equipment without appropriate regulators provided by the Equipment Manufacturer. Coordinate with all equipment. Regulators shall be appropriate for the pressures and capacity of the equipment and installation location.

3.04 TESTING AND PURGING

- A. All new gas piping shall be pressure tested at 3 psi or 1.5 times the design pressure, whichever is greater, for a time period of 0.5 hours per 500 cubic feet of pipe volume, not to exceed 24 hours.

END OF SECTION

SECTION 23 23 00

REFRIGERANT PIPING SYSTEMS

1.0 GENERAL

1.01 DESCRIPTION

- A. All work specified in this Section is governed by the Common Work Results for HVAC 230500.
- B. This Section 23 23 00 and the accompanying drawings cover the provisions of all labor, equipment, appliances, and materials and performing all operations in connection with the construction of the piping systems as specified herein and as shown for the heating, ventilating and air conditioning (HVAC) systems. These piping systems include, but are not limited to, the following:
1. Refrigerant suction and liquid piping (RS&RL)
 2. Condensate drains (DR)
 3. Refrigerant suction and liquid piping insulation

- C. All insulation products installed indoors shall meet ASTM E 84, UL 723, NFPA 90A, and 90B requirements for Flame Spread Rating 25 and Smoke Developed Rating 50.

1.02 INTENT

- A. It is the intent of this Section of the specifications to provide complete and operable piping systems as shown and specified which are free of leaks, properly vented, free of noise, vibration, and sweating, and fabricated so as to fit the space allotted and to exhibit a minimum resistance to fluid flow. It is also the intent of this Section of the specifications to provide a complete piping insulation system which is free of gaps and tears, properly fitted and finished, free of sweating, and fabricated so as to fit the space allotted and to exhibit a negligible heat transfer.

- B. The word "piping" is defined to mean all piping, fittings, joints, hangers, coatings, valves, test and sensor wells and accessories necessary for the refrigerant piping systems described, shown, and specified.

1.03 GENERAL REQUIREMENTS

- A. Provide all reducing fittings, flanges, couplings and unions of the size and type of material

to match the piping to each piece of equipment, valve, and accessory.

- B. Union joints, couplings or flanges shall be provided in each pipeline connected to each piece of equipment and elsewhere as indicated and specified. Unions shall match the piping system in which they are installed.

1. Unions or flanges shall be provided between all copper to steel connections in water-carrying piping. These unions shall be dielectric, insulating type.
- C. All changes in direction and branches shall be made with manufactured fittings.
- D. All pipe joints shall be cut square and all burrs shall be removed.
- E. Fabrication of a bull-head tee connection is strictly prohibited.
- F. Open ends of pipelines not currently being handled shall be plugged during installation to keep dirt, water, and foreign material out of the system.
- G. Horizontal refrigerant and drain piping shall slope down in the direction of flow at a minimum slope of 1/8" per foot of run.
- H. All insulation products installed indoors shall meet NFPA 90A, 90B and 255 requirements for Flame Spread Rating 25 and Smoke Developed Rating 50.

1.04 FIRE—STOPS

- A. Where pipes pass through fire partitions, fire walls and floors, install a fire-stop that shall provide an effective barrier against the spread of fire, smoke and gases. Fire-stop material shall be packed tight and completely fill clearances between pipes and openings. Fire-stop material shall conform to the following:
1. Fire-stopping material shall maintain its dimensions and integrity while preventing the passage of flame, smoke, and gases under conditions of installation and use when exposed to the ASTM E119 time-temperature curve for a time period equivalent to the rating of the assembly penetrated. Fire-stopping material shall be noncombustible as defined by ASTM E136, and in addition, for insulation materials melt point shall be a minimum of 1700°F for 1-hour protection and 1850°F for 2-hour protection. Fire-stopping material shall be Dow-Corning RTV Foam or an approved equal.

1.05 ACCEPTABLE MANUFACTURERS

- A. Insulation products shall be as manufactured by Owens Corning, Knaf, Manville, Certainteed, Dow, or Armacell.

2.0 PRODUCTS

2.01 PIPE AND FITTINGS

- A. All pipe and fittings shall be products of a domestic manufacturer.
- B. Pipe and fittings shall be as listed and outlined below:

SERVICE	MATERIAL TYPE	SIZES
1. Refrigerant Suction and Liquid	1	All
2. Drains*	2	All

*Note: As an option, on cooling coil condensate drains (which are not installed in a plenum) the drain piping may be schedule 40 PVC with solvent joints; subject to advance approval by the Local Authorities. Fittings shall meet ASTM D2466 and solvent shall meet ASTM D2564.

- C. The pipe, fittings and joints shall be as outlined below:
- a. Pipe – Type L hard drawn copper tubing meeting ASTM B88 or ASME B280.
 - b. Fittings – Wrought copper meeting ASTM B16.22.
 - c. Joints – Silver brazed with sil-fos or silver solder.

2. Material Type 2:
 - a. Pipe – Copper drainage tube DWV meeting ASTM B306.
 - b. Fittings – Wrought copper solder-joint drainage fittings meeting ASME B16.29.
 - c. Joints – Soldered with a solder meeting ASTM B32.

2.02 VALVES

- A. All valves shall have the manufacturer's name or trademark and the working pressure cast or stamped on the valve body.
- B. All valves shall be designed and constructed for refrigerant service.

2.03 PIPING INSULATION

- A. Flexible elastomeric foam closed-cell insulation shall be provided over all refrigerant suction piping, cooling coil condensate, and other services as specified or noted. Refrigerant suction piping insulation shall be 1-1/2" thick 25/50 AP Armaflex, black. Cooling coil condensate insulation shall be 1" thick Armaflex Ultra. All glues and coatings shall be products of the same Manufacturer as the insulation. Insulation shall comply with ASTM C534, Type I for tubular materials. Insulation shall be listed and labeled per UL 723 at 25/50 when used in return air plenums.
- B. Insulation shall be continuous over all valve bodies, fittings, and wall and floor penetrations.

3.0 EXECUTION

3.01 ARRANGEMENT

- A. Piping shall follow the general layout, arrangement, schematics, and details. Provide all offsets, vents, drains, charging ports and connections necessary to accomplish the installation. Fabricate piping accurately to measurements established at the project site to avoid interference with ductwork, other piping, equipment, openings, electrical conduits, and light fixtures. Make suitable provision for expansion and contraction with expansion loops and offsets.

3.02 REFRIGERANT PIPING INSTALLATION

- A. All refrigerant piping shall be sized in accordance with the air conditioning equipment manufacturer's written instructions. Provide charging ports, solenoid valves, service valves, dryers, etc. at each piece of equipment.
- B. All brazing shall be done while the line is being flushed with carbon dioxide, nitrogen, or other inert gases.
- C. The inside of all tubing shall be thoroughly cleaned and internally wiped with a lintless, dry cloth.
- D. Suction lines shall drop below their coils before any horizontal run.
- E. Provide oil traps at least every ten feet for extended vertical risers.
- F. All oil traps shall be constructed from close-radius type fittings.
- G. Dryer cores shall be installed to remove horizontally or downward.
- H. Install external equalizer downstream of its expansion valve sensing bulb.
- I. Install expansion sensing valve bulb on top centerline of piping up to 5/8" size; install 45 degrees down from the horizontal centerline on pipe sizes 7/8" and larger.

3.03 CLOSED-CELL PIPING INSULATION INSTALLATION

- A. Insulation shall be provided on all refrigerant suction and indoor cooling coil condensate drain lines. The insulation shall be installed by the slip-on method; slitting of the insulation is prohibited and shall be cause for rejection, except that AP Armaflex Lapsel with interior adhesive liner and wide adhesive lap seal is acceptable. All elbows shall be mitered, and all such joints and butt joints shall be tightly made and glued.
- B. All insulation installed outdoors shall be coated with a glossy white, ultraviolet protective coating applied in two coats.

END OF SECTION

SECTION 23 31 00

HVAC DUCTS, ACCESSORIES, AND CASINGS

1.0 GENERAL

1.01 DESCRIPTION

- A. All work specified in this Section is governed by the Common Work Results for HVAC Section 23 05 00.
- B. This Section 23 31 00 and the accompanying drawings cover the provisions of all labor, equipment, appliances, and materials and performing all operations in connection with the construction of the ductwork systems as specified herein and as shown. These systems include, but are not limited to, the following:
1. Supply air ductwork
 2. Return, transfer, and relief air ductwork
 3. Exhaust ductwork
 4. Outside air ductwork

5. Combustion air ducts and flues
6. Ductwork accessories

1.02 INTENT

- A. It is the intent of this Section of the specifications to provide a complete operable duct system as shown and specified which is reasonably airtight, free of noise, vibration, and sweating, and fabricated so as to fit into the space allotted and to exhibit a minimum resistance to airflow.

1.03 DESIGN AND CONSTRUCTION – DUCTWORK

- A. Ductwork shall be provided in strict accordance with the third edition – 2005 – of the SMACNA HVAC Duct Construction Standards – Metal and Flexible, NFPA No. 90A, 90B, 91 and 96, and UL 181. Where SMACNA tables have an option between different gauges and supports, the heavier gauge shall be used.
- B. Ductwork dimensions shown are net, clear, inside dimensions with no allowance shown for duct liner. All ductwork specified to be lined shall be 2" larger than shown in each dimension to compensate for the liner. Ductwork shall be square, rectangular, round, spiral or flat oval as noted. Conversion of duct shapes and sizes shown shall be accomplished without increasing air velocities or friction losses and is subject to prior approval by the Architect and Engineer.
- C. Elbows shall be mitered with double-thickness turning vanes except that lined ductwork for low pressure returns and transfers shall not have turning vanes.
- D. Abrupt changes in duct sizes and shapes shall not be permitted. The total angle of diverging transitions shall be not more than 15 degrees; converging transitions shall be not more than 30 degrees unless otherwise noted or required due to structural constraints.
- E. Offsets, transitions, rises and drops are not individually called out on the Design Drawings. They shall be provided as required to fit the ductwork into the allocated spaces.
- F. Transition rectangular ductwork on bottom and sides. Maintain top of ductwork level and as high as possible.
- G. Ductwork shall be constructed for standard 1" WC static pressure class at 2500 FPM with Class C seals and is herein defined as "low pressure ductwork".
- H. Provide the following types of ductwork material for the services indicated:
1. Galvanized sheetmetal: supply, return, exhaust, and relief of conditioned and outside air

2.0 PRODUCTS

2.01 GALVANIZED SHEETMETAL

- A. Galvanized sheetmetal shall be lock-forming grade G90-ASTM A 653 hot dip galvanized steel sheets. Sheetmetal shall be galvanized on each side with not less than 1.25 ounces of zinc per square foot.
- B. Galvanized sheetmetal installed outside the building and subject to weather shall be soldered or welded. See Section 23 07 13 for additional information about covering and insulation.
- C. Galvanized sheetmetal installed outside the building and not exposed to weather, such as in covered loading docks and parking decks, may match the construction of ductwork inside the building.
- D. Galvanized sheetmetal ductwork outside the building within 20 miles of the seacoast shall have corrosion coating appropriate to the installation location.

2.02 COMBUSTION AIR DUCTS

- A. Combustion air ductwork may be constructed per the plumbing vent requirements except PVC and CPVC are disallowed in return air plenums. Ductwork shall be sealed airtight to prevent mechanical room or conditioned space air infiltration. Combustion air ducts shall be complete with storm collars, weatherproof caps, and all accessories.

2.03 FLUES

- A. All Category IV flues shall be specified by, and installed in accordance with, the appliance manufacturer. Flues must be sealed "gas-tight" at all joints. Flues shall be complete with storm collars, drip T with hose end connection, weatherproof caps, and all accessories.

2.04 DAMPERS

- A. Manual Volume Dampers
1. Single blade butterfly dampers are acceptable up to 12" round or 12" x 12" square. Dampers larger than these dimensions shall be multi-blade type. Single blade dampers shall be constructed of 16 gauge or heavier galvanized sheetmetal.
 2. No multi-blade damper blade shall exceed 8" in width. All multiple blade dampers shall be constructed of 16 gauge galvanized steel or heavier. The damper frame shall be 16 gauge or heavier. The damper action shall be opposed-blade type.
 3. Each blade shall pivot on a 1/2" cadmium plated, cold-rolled steel axle which pivots within self-lubricating, Oilite bronze bearings.
 4. The top and bottom edges of each rectangular damper blade shall be crimped for stiffness.
 5. The operating rod for all dampers shall be extended outside the damper frame for attachment of an operator. Each operator shall have a position indicator and locking quadrant.
 6. All dampers utilized for introduction of outside air shall have flexible, gasketed edge and end seals. The leakage rate shall be less than 4 CFM per SF of face area against a 1" WC differential pressure, based on a nominal 48" x 48" damper size.
 7. All dampers utilized for exhaust or relief air shall have flexible, gasketed edge and end seals. The leakage rate shall be less than 4 CFM per SF of face area against a 1" WC differential pressure, based on a nominal 48" x 48" damper size.
 8. Dampers to be installed in insulated ductwork shall have standoffs sufficient to allow for insulation and vapor barrier integrity.
 9. Manual volume dampers shall be as manufactured by Louvers & Dampers, Inc., Pottoff, Greenheck, Nallor, Ruskin, or an approved equal.
- B. Backdraft Dampers
1. Backdraft dampers shall be sized according to their installation location and noted pressure setting. Damper pressure setting shall be adjustable and shall be accessible from outside ductwork or via access hatch, as applicable.

2.05 LOW-PRESSURE DUCT BRANCHES

- A. Splitter dampers shall be provided at all low-pressure ductwork branches. All low-pressure ductwork branches shall be radiused or 45 degree take-offs; straight taps are unacceptable. The length of the damper blade shall be the same as the width of the widest duct section at the split, but in no case shall blade length be less than 12". Each operator rod shall have a locking swivel joint.

2.06 FLEXIBLE DUCT

- A. Flexible ductwork shall be Class 1, UL 181 air duct and meet NFPA 90A and 90B Standards.
- B. The internal duct surface shall be acoustically rated, black CPE bonded to a coated steel wire helix. The external jacket shall be a fiberglass, bi-directionally reinforced, metallized vapor barrier with a standing, triple ply seam. Fiberglass insulation shall be provided between the duct surface and the jacket to achieve a maximum thermal conductivity of 0.24 BTU/hr./sq. ft./F at 75°F mean.
- C. Flexible ductwork shall be suitable for 10" WG positive pressure and 1" WG negative pressure in sizes 4" through 12" ID, and 6" WG positive pressure and 0.5" WG negative pressure in sizes 14-16" ID.
- D. Flexible ductwork, insulation and insulation cover shall be suitable for ceiling return air plenum installation and shall comply with all applicable codes and standards regarding such ceiling plenum installations.
- E. Flexible duct shall be Thermflex M-KE or an approved equal.
- F. The maximum allowable installed length of flexible ductwork shall be as follows:

1. 8'-0" on low-pressure supply air systems limited to short runouts and end of runs connected to round neck supply diffusers and registers.
2. 2'-0" on connections from round neck grilles to sheetmetal ductwork on return, exhaust and transfer ductwork.
3. Provide a spin-in fitting with integral scoop and volume damper at all flexible run-out connections in low-pressure supply air ductwork only, except locations where spin-in fittings would project more than 50% into the projecting ductwork dimension. Adhesive fittings are acceptable provided they are also screwed to the ductwork and sealed with mastic.

- H. Flexible ductwork shall not pass through wall, floors, or ceilings.

2.07 FLEXIBLE CONNECTIONS

- A. Provide flexible duct connections at the inlet and outlet of each air handling unit and at all other locations indicated. Flexible connections shall be fabricated from a glass fabric coated on both sides with neoprene. Minimum weight shall be 30 oz. per sq. yard. Flexible connections shall be used for vibration isolation only and shall not be used to correct connection misalignment.

2.08 DUCT HARDWARE

- A. Duct hardware shall be as manufactured by Young Regulator or an approved equal.

2.09 ACCESS DOORS

- A. A duct access door shall be provided at each fire and smoke damper. Access doors shall be designed for 1.5 times the pressure of the duct in which they are mounted. Access doors shall be of sufficient size to complete access to the dampers for resetting the blades and replacing the links. Access doors in medium and high-pressure ductwork shall be installed downstream of fire dampers and shall be implosion type. Where access is provided through gypsum board walls or ceilings, furnish access door for installation under Division 09. Coordinate with Division 09 and Architect. Each door shall match the fire-rating of the wall or ceiling indicated.
- B. Access shall be provided to duct-mounted smoke detector locations. Access shall allow inspection and maintenance of all aspects of the detector. Access doors shall meet the requirements of A, above, as needed.

3.0 EXECUTION

3.01 INSTALLATION

- A. Ductwork shall be installed in strict accordance with SMACNA, UL, and NFPA standards.
- B. All ductwork installed outside the building shall be secured to the structure. Coordinate with the Structural Engineer as needed. It is the Contractor's responsibility to design and coordinate all supports. All supports shall be designed to withstand all code-required wind and seismic loads.
- C. Flexible ducts utilized in the low-pressure ductwork systems shall be installed without kinks or bends which are less than a centerline radius equal to or greater than twice the diameter of the flexible duct being installed.
- D. Electric duct heaters shall be installed as indicated and in conformance with the manufacturer's recommendations. Coordinate the actual units to be provided with all trades. The heater shall be tested and adjusted after installation to provide the capacities indicated.
- E. Ductwork labels, including factory labels, tags, etc. except equipment nameplates shall be removed to the satisfaction of the Architect in all exposed areas.
- F. Dampers shall be adjustable. Where dampers are not or will not be accessible without access panels, provide and install remote balancing cable control system, Young Regulator or equal. Adjustment shall be from a nearby accessible area.

END OF SECTION

SECTION 23 34 00

HVAC FANS

1.0 GENERAL

1.01 DESCRIPTION

- A. All work specified in this Section is governed by the Common Work Results for HVAC Section 23 05 00.
- B. This Section 23 34 00 and the accompanying drawings cover the provision of all labor, equipment, appliances and materials, and performing all operations in connection with the construction and installation of the fans as specified herein and as shown. These fans include, but are not limited to the following:
1. Ceiling/cabinet fans

1.02 INTENT

- A. It is the intent of this Section of the specifications to provide complete, operable, adjusted fans as shown and specified which are free of excessive noise, vibration and airflow fluctuations.

1.03 BASIS OF DESIGN

- A. The basis of design is as scheduled. Any proposed substitutions shall be proven equal in all aspects to the equipment specified as the basis of design. Particular attention is called to the requirements of Section 23 05 00.

1.04 ACCEPTABLE SUBSTITUTE MANUFACTURERS

- A. Acceptable substitute manufacturers are Carnes, Cook, Acme, PennBarry, Twin City, Price, and Greenheck.

2.0 PRODUCTS

2.01 GENERAL REQUIREMENTS

- A. All fans shall be factory tested, rated, and certified in accordance with the requirements of AMCA Standard No. 210 and shall be labeled accordingly.
- B. All exhaust fans shall be provided complete with gravity-type backdraft dampers.
- C. All electric motors and equipment shall be UL labeled.
- D. Refer to Division 26 of these specifications and to the electrical Contract Drawings for electrical characteristics and connections to all equipment. Coordinate all electric motors and other equipment with these electrical documents.

2.02 CEILING/CABINET EXHAUST FANS

- A. Ceiling/cabinet exhaust fans shall be Greenheck Model CSP (nine/cabinet) or Greenheck Model SP (ceiling) with integral grille, or an approved equal. Fans shall be provided with speed controller for balancing.

3.0 EXECUTION

3.01 INSTALLATION

- A. Fans shall be installed as indicated and in conformance with the manufacturer's recommendations. Coordinate the actual units to be provided with all trades.

3.02 ADJUSTMENT

- A. The fans shall be tested and adjusted after installation to provide the capacities indicated.

END OF SECTION

SECTION 23 37 13

DIFFUSERS, REGISTERS, AND GRILLES

1.0 GENERAL

1.01 DESCRIPTION

- A. All work specified in this Section is governed by the Common Work Results for HVAC Section 23 05 00.
- B. This Section 23 37 13 and the accompanying drawings cover the provisions of all labor, equipment, appliances, and materials, and performing all operations in connection with the construction and installation of air distribution devices as specified herein and as shown. These units include, but are not limited to the following:
1. Supply Registers (SR)
 2. Return Air Registers (RAR)

1.02 INTENT

- A. It is the intent of this Section of the specifications to provide complete, operable, adjusted air distribution devices as shown and specified which are free of excessive noise, vibration and airflow fluctuations.

1.03 SELECTION CRITERIA

- A. All air distribution devices shall be selected in accordance with the following minimum criteria unless otherwise noted below or on the drawings:
1. Method of mounting shall be compatible with the ceiling, wall or duct surface which it mounts on or in; i.e. lay-in, surface mounting, plaster frame, duct collar, etc. The architectural drawings shall be referenced to determine the mounting method for each device. All flanges on surface mounted devices shall be provided with a gasket.
 2. Finish of all ceiling mounted devices shall be selected to match the color of the

adjacent ceiling. Finish of all wall mounted devices shall be primer which is compatible with the finish coating specified for the adjacent wall; finish coat will be applied under Division 9.

1.04 BASIS OF DESIGN

- A. The basis of design is Titus. Any proposed substitutions shall be proven equal in all respects to the equipment specified as the basis of design. Any modifications to ductwork, controls, ceilings, building structure, etc., that result from any substitution shall be coordinated with all trades. This coordination shall occur before delivery of equipment and any modifications shall be performed without incurring additions to the Contract.

1.05 ACCEPTABLE MANUFACTURERS

- A. Acceptable manufacturers are Price, Carnes, Metal Aire, Krueger, Nallor, and Titus UON, provided that their units, performance, appearance, and physical characteristics are equal in all respects for this specific project.

2.0 PRODUCTS

2.01 DESCRIPTION

- A. Supply Registers (SR)
1. Supply registers shall be surface mounted, steel with aluminum blades, adjustable double-deflection type complete with opposed blade dampers for balancing purposes. The outermost set of deflection blades shall be parallel to the long dimension of the SR and the innermost set of deflection blades shall be parallel to the short dimension of the SR. The registers shall be tested in accordance with ADC standards and shall be selected to provide design airflow at a maximum NC of 35. SRs shall be Titus 272R.
- B. Return Air Registers (RAR)
1. Return air registers shall be surface mounted, **steel, **aluminum registers with curved hemmed edge blades with an opposed blade damper. Damper blades shall be ganged operated by means of a key which can be removed after balancing. RARs shall be **Titus 3502RL (steel) **Titus 3502FL (aluminum), except RARs shown on the return air boot detail with upturned blades shall be Titus 350RL, sized as indicated.

3.0 EXECUTION

3.01 INSTALLATION

- A. Air distribution devices shall be installed as indicated and in conformance with the manufacturer's recommendations. The color, frame, and border types shall be coordinated with Architectural requirements and shall be selected to install in the finished surface indicated.
- B. All air distribution devices with blade orientations shall be coordinated with Architect.
- 3.02 ADJUSTMENT
- A. Grilles, registers, diffusers, etc. shall be tested and adjusted to provide the scheduled air flow capacities.
- B. All devices shall have adjustable and accessible volume dampers.

END OF SECTION

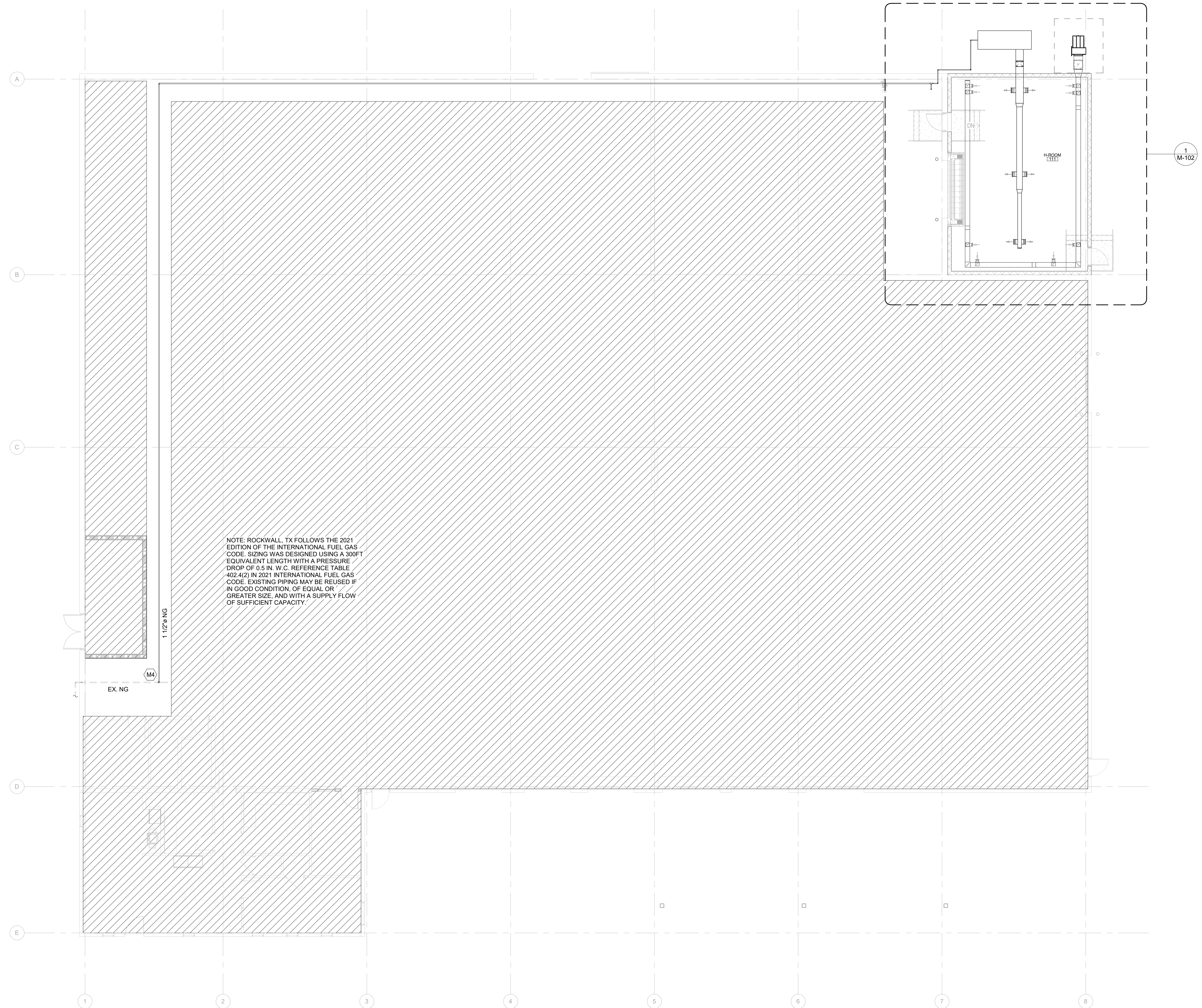
SECTION 23 74 23.13

PACKAGED, DIRECT-FIRED, OUTDOOR, HEATING-ONLY MAKEUP-AIR UNITS

1.0 GENERAL

1.06 DESCRIPTION

- A. All work specified in this Section is governed by the Common Work Results for HVAC Section 23 05 00.
- B. This Section 23 74 23.13 and the accompanying drawings cover the provisions of all labor, equipment, appliances and materials, and performing all operations in connection with the construction and installation of the burners as specified herein and as shown. This work includes, but is not limited to, the following:
1. Burner assemblies
 2. Gas train
 3. Control system (interlocked to the gas train and central control system)
- C. Units shall be completely factory-assembled as three (3) packages complete with individual "loose" control items for field mounting. The gas train shall be completely piped. The control panel shall be internally wired.
- D. The only "loose" control items for field installation shall be:
1. Ignition transformer
 2. UV flame scanner
 -



1 Mechanical Plan - Overall
1/8" = 1'-0"

KEY NOTES

M4 CONNECT NEW NATURAL GAS PIPING TO EXISTING PIPING OF SUFFICIENT CAPACITY. CONTRACTOR TO VERIFY CONNECTION LOCATION PRIOR TO BEGINNING CONSTRUCTION AND IS TO COORDINATE INCREASED GAS LOAD WITH THE GAS COMPANY. PROVIDE NEW METER IF THE EXISTING METER ISN'T LARGE ENOUGH.

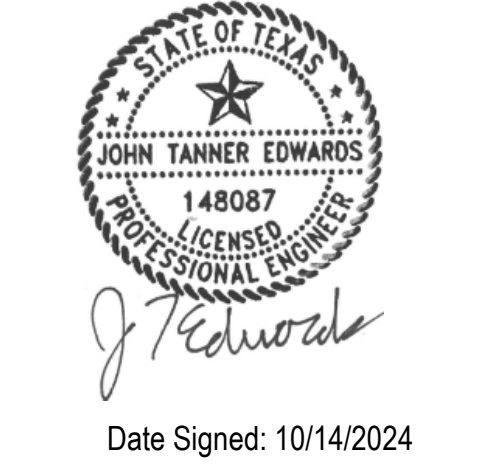
GENERAL NOTES

- CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND ASCERTAIN ALL EXISTING CONDITIONS. NO ALLOWANCES WILL BE PROVIDED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. CONTRACTOR SHALL DEMO ALL NON-ESSENTIAL DUCTWORK AND PIPING WHICH IS NOT REQUIRED FOR THIS INSTALLATION. COORDINATE ALL DEMO WITH BUILDING REP BEFORE DEMO WORK COMMENCES.
- EXISTING WORK SHOWN HERE IS BASED ON SITE VISIT AND/OR PROVIDED INFORMATION. THESE DRAWINGS ARE NOT NECESSARILY ACCURATE FOR EXISTING MATERIALS AND SHOULD NOT BE INTERPRETED TO BE A STRICT REPRESENTATION OF AS-BUILT CONDITIONS.
- ALL DUCTWORK SHOWN IS SCHEMATIC IN NATURE AND DOES NOT REFLECT ALL OFFSETS, CHANGES IN ELEVATION, ETC. NECESSARY FOR COORDINATION BETWEEN TRADES. OFFSET & COORDINATE AS REQUIRED.
- THERMOSTAT / SENSOR PLACEMENT SHALL BE COORDINATED WITH ARCHITECTURAL FINISH PLANS, FURNITURE PLANS, & ALL WALL-MOUNTED ELECTRICAL DEVICES, DIFFUSER LOCATIONS, SPRINKLER HEADS, ETC. SHALL BE COORDINATED WITH ALL OTHER CEILING DEVICES. SEE ARCHITECTURAL DRAWINGS.
- FIELD COORDINATE INSTALLATION OF DUCTWORK, PIPING, EQUIPMENT, ETC. WITH ALL OTHER TRADES.
- CONTRACTOR TO VERIFY ALL MECHANICAL EQUIPMENT AND AIR DISTRIBUTION/RETURN DEVICES ARE IN PROPER WORKING CONDITION. IF NOT, REPAIR OR REPLACE WITH NEW, MATCHING BASE BUILDING STANDARDS.

BW & A Barrett, Woodyard
1255 Crescent Green
Ste. 230 | Cary, NC 27518
Phone: 919-747-9884
BWA CO# 13267
BWA Project #: 2024-1025
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**A TENANT
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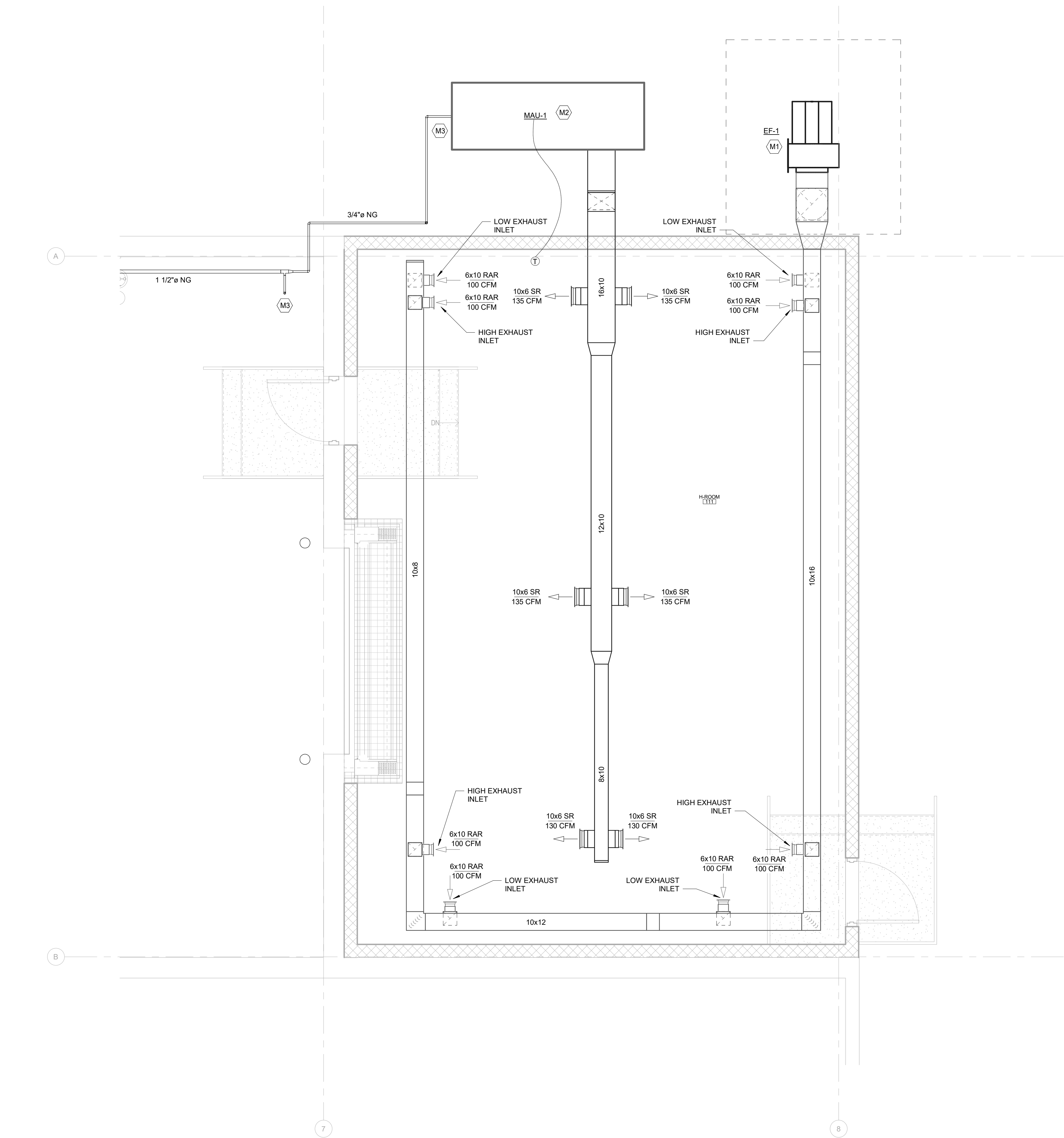
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ROCKWALL, TEXAS 75032

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Date: 10/14/2024
Project No.: 2023362.00
Sheet Title: MECHANICAL PLAN - OVERALL

Sheet No.:
M-101
☒ Released for Construction
☐ Not Released for Construction



1 Mechanical Plan - H Room
3/8" = 1'-0"

KEY NOTES

- M1 PROVIDE AND INSTALL NEW GRADE-MOUNTED EXHAUST FAN AS SCHEDULED ON P-001. REFER TO DETAIL 1M-001.
- M2 PROVIDE AND INSTALL MAKE UP AIR UNIT AS SCHEDULED ON P-001. MOD SHALL BE INTERLOCKED TO MAU AND SHALL SHUT WHEN NOT IN USE.
- M3 PROVIDE NEW NATURAL GAS CONNECTION TO EQUIPMENT AS SHOWN. REFER TO DETAIL 2M-001. GAS PIPING SHALL HAVE MINIMUM OF 10 DIAMETERS OF STRAIGHT RUN INTO EQUIPMENT. COORDINATE WITH MANUFACTURER REQUIREMENTS.

GENERAL NOTES

- 1 CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND ASCERTAIN ALL EXISTING CONDITIONS. NO ALLOWANCES WILL BE PROVIDED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. CONTRACTOR SHALL DEMO ALL NON-ESSENTIAL DUCTWORK AND PIPING WHICH IS NOT REQUIRED FOR THIS INSTALLATION. COORDINATE ALL DEMO WITH BUILDING REP BEFORE DEMO WORK COMMENCES.
- 2 EXISTING WORK SHOWN HERE IS BASED ON SITE VISIT AND/OR PROVIDED INFORMATION. THESE DRAWINGS ARE NOT NECESSARILY ACCURATE FOR EXISTING MATERIALS AND SHOULD NOT BE INTERPRETED TO BE A STRICT REPRESENTATION OF AS-BUILT CONDITIONS.
- 3 ALL DUCTWORK SHOWN IS SCHEMATIC IN NATURE AND DOES NOT REFLECT ALL OFFSETS, CHANGES IN ELEVATION, ETC. NECESSARY FOR COORDINATION BETWEEN TRADES. OFFSET & COORDINATE AS REQUIRED.
- 4 THERMOSTAT / SENSOR PLACEMENT SHALL BE COORDINATED WITH ARCHITECTURAL FINISH PLANS, FURNITURE PLANS, & ALL WALL-MOUNTED ELECTRICAL DEVICES, DIFFUSER LOCATIONS, SPRINKLER HEADS, ETC. SHALL BE COORDINATED WITH ALL OTHER CEILING DEVICES. SEE ARCHITECTURAL DRAWINGS.
- 5 FIELD COORDINATE INSTALLATION OF DUCTWORK, PIPING, EQUIPMENT, ETC. WITH ALL OTHER TRADES.
- 6 CONTRACTOR TO VERIFY ALL MECHANICAL EQUIPMENT AND AIR DISTRIBUTION/RETURN DEVICES ARE IN PROPER WORKING CONDITION. IF NOT, REPAIR OR REPLACE WITH NEW, MATCHING BASE BUILDING STANDARDS.

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A TENANT
ADDITION

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for



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ROCKWALL, TEXAS 75032

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Date: 10/14/2024
Project No.: 2023362.00
Sheet Title: MECHANICAL PLAN - H ROOM

Sheet No.:
M-102
☒ Released for Construction
☐ Not Released for Construction

TYPE	MANUFACTURER CATALOG NO.	LAMPS		BALLAST		TOTAL WATTS	VOLTAGE	DESCRIPTION
		QTY.	TYPE	QTY.	TYPE			
A	HOLOPHANE HEXS SERIES OR APPROVED EQUAL	1	LED (4000K)	1	ELECTRONIC DRIVER	80	120/277	4' LINEAR EXPLOSION-PROOF LED FIXTURE. CLASS 1 DIVISION 1 RATED. CLEAR LENS. PENDANT MOUNT SUCH THAT FIXTURE IS 20" A.F.F. CONNECT INTO EMERGENCY GENERATOR CIRCUIT. 4480 LUMENS.
X	HALOPHANE HDXE EXIT SIGN OR APPROVED EQUAL	-	LED (RED)	1	ELECTRONIC DRIVER	-	120/277	CLASS 1 DIVISION 1 RATED WHITE ALUMINUM EXIT SIGN, WALL MOUNT 96" AFF. PROVIDE RED LETTERING. PROVIDE DIRECTIONAL ARROWS AND NUMBER OF FACES AS INDICATED. CONNECT INTO EMERGENCY GENERATOR CIRCUIT. SEE LIGHTING PLAN.

NOTES:

1. ALL FIXTURES SHALL BE UL LISTED AND APPROVED BY ARCHITECT/OWNER PRIOR TO ORDERING.
2. FIXTURES "X" & FIXTURES DESIGNATED AS EMERGENCY WITH AN "E" SHALL BE WIRED "UNSWITCHED".
3. ALL REMOTE BALLAST LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
4. COORDINATE MOUNTING HEIGHTS OF ALL SUSPENDED FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.

NOTES:

1. ALL FIXTURES SHALL BE UL LISTED AND APPROVED BY ARCHITECT/OWNER PRIOR TO ORDERING
2. FIXTURES "X" & FIXTURES DESIGNATED AS EMERGENCY WITH AN "E" SHALL BE WIRED "UNSWITCHED".
3. ALL REMOTE BALLAST LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
4. COORDINATE MOUNTING HEIGHTS OF ALL SUSPENDED FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.

ELECTRICAL GENERAL NOTES

1. ALL WORK IN THIS DIVISION SHALL COMPLY WITH ALL LOCAL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES, AND THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
2. THE CONTRACTOR SHALL KEEP A RECORD OF THE CHANGES WHICH ARE IN CONFLICT WITH THESE DRAWINGS AND SPECIFICATIONS. AT THE CLOSE OF EACH DAY, THE CONTRACTOR SHALL PREPARE A LIST OF THE CHANGES AND ELECTRONIC CAD FILES TO THE OWNER.
3. THE DESIGN OF THE ELECTRICAL SYSTEM IS PRELIMINARY AND DOES NOT NECESSARILY SHOW EVERY FITTING AND DETAIL. ALL WORK SHALL BE INSTALLED SO THAT JUNCTION BOXES AND COMPONENTS WILL BE ACCESSIBLE FOR SERVICE.
4. ALL SYSTEMS, EQUIPMENT, COMPONENTS, WORK, ETC. PROVIDED UNDER THIS DIVISION SHALL BE COVERED BY A ONE YEAR GUARANTEE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEFECTIVE WORK BY THE OWNER, ANY DEFECTS IN THE WORK, SYSTEMS, EQUIPMENT, OR COMPONENTS FOUND DURING THIS YEAR SHALL BE CORRECTED AT NO CHARGE TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, PATCHWORK, REPAINTING, ETC. TO MAKE THE WORK APPEAR UNDISTURBED.
5. ALL CONDUCTORS SHALL BE COPPER WITH TYPE "THW" OR "THHN" WITH 90-DEGREE INSULATION TEMPERATURE RATING. THE MINIMUM RATING SHALL BE 60°C.
6. ALL CONDUIT SHALL BE CONCEALED IN THE WALLS OR ABOVE THE CEILING UNLESS OTHERWISE NOTED. ALL HOMERUN CIRCUITS SHALL BE INSTALLED WITH 3/4" EMT. ALL CONDUIT SHALL BE 1/2" CONDUIT UNLESS OTHERWISE NOTED.
7. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO GENERALLY ACCEPTED PRINCIPLES OF FIRST CLASS TRADESMANSHIP.
8. ALL PENETRATIONS THRU WALLS, FLOORS, AND CEILINGS SHALL BE FIRE STOPPED PER N.E.C. 300.2.11. ALL UPPER SLAB PENETRATIONS SHALL BE FIRE STOPPED PER N.E.C. 300.2.11. ALL PENETRATIONS SHALL BE FIRE STOP PENETRATIONS SHALL BE AS AUTHORIZED BY OWNER AND IN ACCORDANCE WITH OWNER REQUIREMENTS. TO MOUNT ROOF PENETRATIONS SHALL BE AS AUTHORIZED BY OWNER AND IN ACCORDANCE WITH OWNER REQUIREMENTS.
9. PROVIDE JUNCTION BOXES WITH 3/4" EMT STUBBED UP TO 6" ABOVE ACCESSIBLE CEILING IN NEAREST WALL AT EACH TELEPHONE, DATA AND COAXIAL CABLE TERMINATION. PROVIDE ALL THE NECESSARY FASTENERS AND BUSHINGS AT THE TERMINATION ABOVE CEILING.
10. PROVIDE ALL NECESSARY LIGHTING FIXTURES TO STRUCTURE OR GRIP PER N.E.C. 410.10.4 AND 30.
11. PROVIDE ALL ADDITIONAL AS REQUIRED BY N.E.C.
12. PROVIDE ALL ADDITIONAL AS REQUIRED BY N.E.C. AND ALL MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED. ALL EQUIPMENT SHALL BE GROUNDING AT THE PANEL WHICH FEEDS THE EQUIPMENT.
13. PROVIDE ALL ADDITIONAL AS REQUIRED BY N.E.C. AND ALL MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED. ALL EQUIPMENT SHALL BE GROUNDING CONDUCTOR ROUTED WITH THE BRANCH CIRCUIT HOMERUN CONDUCTORS.
14. ALL ELECTRICAL PENETRATIONS ARE TO BE MEASURED TO THE DEVICE CENTERLINE UNLESS NOTED OTHERWISE.
15. ALL ELECTRICAL PENETRATIONS ARE TO BE MEASURED TO THE DEVICE CENTERLINE UNLESS NOTED OTHERWISE.
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ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	ON CENTER MTG. HT.
	CONCEALED CONDUIT IN CEILING OR WALL	
	CONCEALED CONDUIT IN FLOOR OR UNDERGROUND	
	EXPOSED CONDUIT	
	CIRCUIT HOMERUN TO PANEL; EACH ARROWHEAD = 1 CIRCUIT	
	NO. OF CONDUCTORS IN CONDUIT; EACH CROSSHATCH = 1 WIRE	
	FLEXIBLE CONDUIT OR S.O. CORD	
	CONDUIT STUBBED UP OR TURNED DOWN	
	PLYWOOD BACKBOARD	
	WALL MOUNTED DUPLEX RECEPTACLE OUTLET	18" AFF U.N.O.
	WALL MOUNTED DUPLEX RECEPTACLE OUTLET WITH (2) USB PORTS	18" AFF U.N.O.
	WALL MOUNTED G.F.C.I. DUPLEX RECEPTACLE OUTLET	18" AFF U.N.O.
	WALL MOUNTED DOUBLE DUPLEX RECEPTACLE OUTLET	18" AFF U.N.O.
	WALL MOUNTED DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER	②
	WALL MOUNTED G.F.C.I. DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER	②
	WALL MOUNTED SPECIAL RECEPTACLE OUTLET	AS REQUIRED
	CEILING MOUNTED DUPLEX RECEPTACLE OUTLET	AS REQUIRED
	JUNCTION BOX - SIZE AND MOUNTING AS REQUIRED	AS REQUIRED
	FLUSH FLOOR BOX WITH QUAD RECEPTACLE AND DATA/AV PROVISIONS. SEE ELECTRICAL PLANS FOR EXACT MODEL.	
	RECESSED WALL BOX (WIEMOLD EF84 OR EQUAL BY HUBBELL) WITH DUPLEX RECEPTACLE, CABLE FEED, AND AV PROVISIONS AT WALL MOUNTED TV LOCATION.	60" AFF U.N.O.
	CEILING MOUNTED DUPLEX RECEPTACLE OUTLET	AS REQUIRED
	WALL MOUNTED COMBINATION TELEPHONE/DATA OUTLET	18" AFF U.N.O.
	480/277 VOLT PANELBOARD	
	208/120 VOLT PANELBOARD	
	WALL MOUNTED S.P.S.T. TOGGLE SWITCH	48" AFF
	WALL MOUNTED 3-WAY TOGGLE SWITCH	48" AFF
	WALL MOUNTED DIMMER SWITCH - AS REQUIRED	48" AFF
	WALL MOUNTED TIMER SWITCH	48" AFF
	WALL MOUNTED TOGGLE SWITCH WITH PILOT LIGHT	48" AFF
	DUAL TECH WALL MOUNTED OCCUPANCY SENSOR SWITCH (WATSTOPPER DW-100)	48" AFF
	DUAL TECH WALL MOUNTED OCCUPANCY SENSOR SWITCH WITH DIMMING (WATSTOPPER DW-311)	48" AFF
	CEILING MOUNTED OCCUPANCY SENSOR SWITCH. 120/277V. (WATSTOPPER DT-355)	
	MOTOR-RATED TOGGLE SWITCH	AS REQUIRED
	MOTOR-RATED, TWO-POLE TOGGLE SWITCH	AS REQUIRED
	DISCONNECT SWITCH (FRAME/POLES/FUSE-IF REQUIRED)	
	COMBINATION MOTOR STARTER (VFD)DISCONNECT SWITCH (PROVIDED BY DIVISION 23)	
	MOTOR STARTER (PROVIDED BY DIVISION 23)	
	MOTOR - NUMBER INDICATES HORSEPOWER (F=FRACATIONAL)	
	MOTOR-OPERATED DAMPER (PROVIDED BY DIVISION 23)	
	EXIT SIGN - CEILING, WALL MOUNTED	
	FLUORESCENT OR LED LIGHT FIXTURE.	
	FLUORESCENT OR LED LIGHT FIXTURE ON BATTERY BACKUP (90 MINUTE).	
	FLUORESCENT OR LED STRIP LIGHT FIXTURE.	
	CARD READER DEVICE - PROVIDE JUNCTION BOX WITH 3/4" CONDUIT, WITH PULLSTRINGS, TO 2-GANG JUNCTION BOX LOCATED ABOVE ACCESSIBLE CEILING ON SECURE SIDE. PROVIDE 3/4" CONDUIT, WITH PULLSTRINGS, FROM 2-GANG JUNCTION BOX TO I.T. ROOM. THE "P" IN PARENTHESIS SHOWN FLOOR PLANS DENOTES AS A FUTURE DEVICE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SECURITY VENDOR. PROVIDE ALL CONDUITS AND INFRASTRUCTURE REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.	
	REQUEST TO EXIT DEVICE - PROVIDE JUNCTION BOX WITH 3/4" CONDUIT, WITH PULLSTRINGS, TO 2-GANG JUNCTION BOX LOCATED ABOVE ACCESSIBLE CEILING. THE "P" IN PARENTHESIS SHOWN FLOOR PLANS DENOTES AS A FUTURE DEVICE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SECURITY VENDOR. PROVIDE ALL CONDUITS AND INFRASTRUCTURE REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.	
	SECURITY CAMERA - PROVIDE CEILING MOUNTED JUNCTION BOX A 3/4" CONDUIT, WITH PULLSTRINGS, TO ABOVE NEAREST ACCESSIBLE CEILING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SECURITY VENDOR. SEE SECURITY DRAWINGS FOR ADDITIONAL INFORMATION.	
	TWO-WAY COMMUNICATION PANEL.	
	UNLESS NOTED OTHERWISE	
	ABOVE FINISHED FLOOR/ABOVE FINISHED GRADE	
	BELOW CEILING	
	ABOVE COUNTER	
	WEATHER PROOF	

NOTES:

- ① PROVIDE ALL ACCESSORIES AND FITTINGS NEEDED FOR COMPLETE INSTALLATION
② COORDINATE EXACT MOUNTING HEIGHT AND REQUIREMENTS WITH ARCHITECT.

GENERAL NOTES:

1. EACH MULTIWIRED BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES PER NEC 210.4(B).



COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	SRS Rockwall H-Room
Project Type:	Alteration

Construction Site:
2065 Kristy Ln
Rockwall, Texas 75032

Owner/Agent:

Designer/Contractor:
Barrett, Woodyard & Associates
1255 Crescent Green Ste. 230
Cary, North Carolina 27518

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Warehouse:Fine Material Storage	762	0.95	724
		Total Allowed Watts =	724

Proposed Interior Lighting Power

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps / Fixture	# of Fixture	Fixture Watt.	(C X D)
Warehouse: Fine Material Storage (762 sq.ft.)				
LED: A: LED Panel 80W:	1	6	80	480
		Total Proposed Watts =		480

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

SIGNED AND STAMPED BY ENGINEER OF RECORD		10/14/2024
Name - Title	Signature	Date



A N D A L L
A U L S O N
c h i t e c t s



Roswell Mill
85-A Mill Street, Suite 200
Roswell, Georgia 30075
770.650.7558
www.randallpaulson.com

architecture/interiors

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A TENANT ADDITION

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TEXAS
(H-ROOM)
for



2065 KRISTY LN
ROCKWALL, TEXAS 75032

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Date	Project No
10/14/2024	2023362.00

Sheet Title
ELECTRICAL LEGEND, NOTES, &
DETAILS

Sheet No

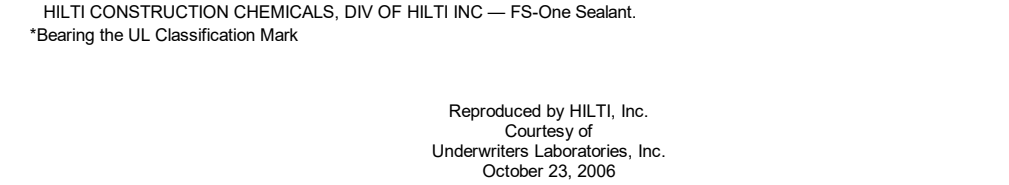
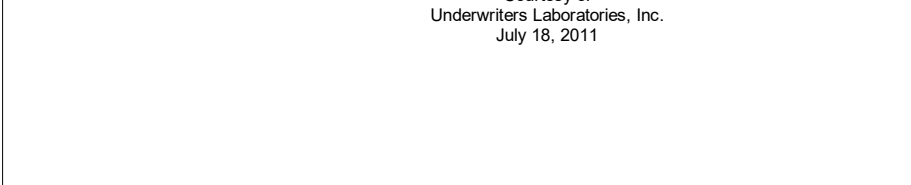
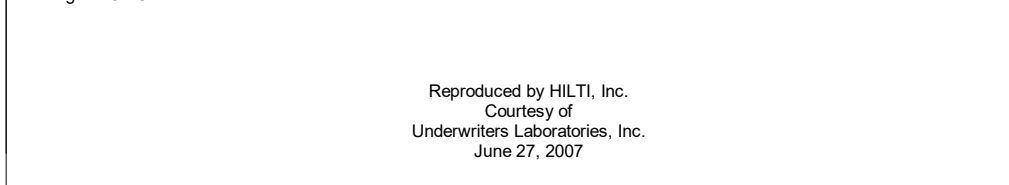
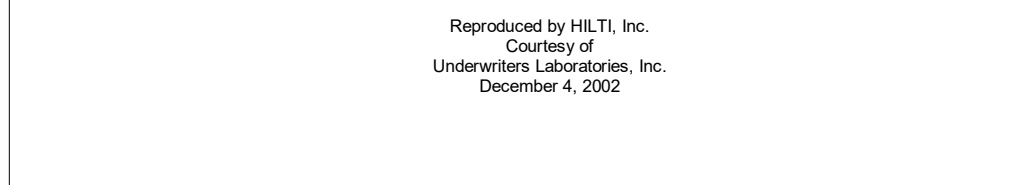
E-001

- ☒ Released for Construction
☐ Not Released for Construction

BW & A Barrett, Woodyard
& Associates, Inc.
1255 Crescent Green
Ste. 230 | Cary, NC 27518
Phone: 919-747-9884

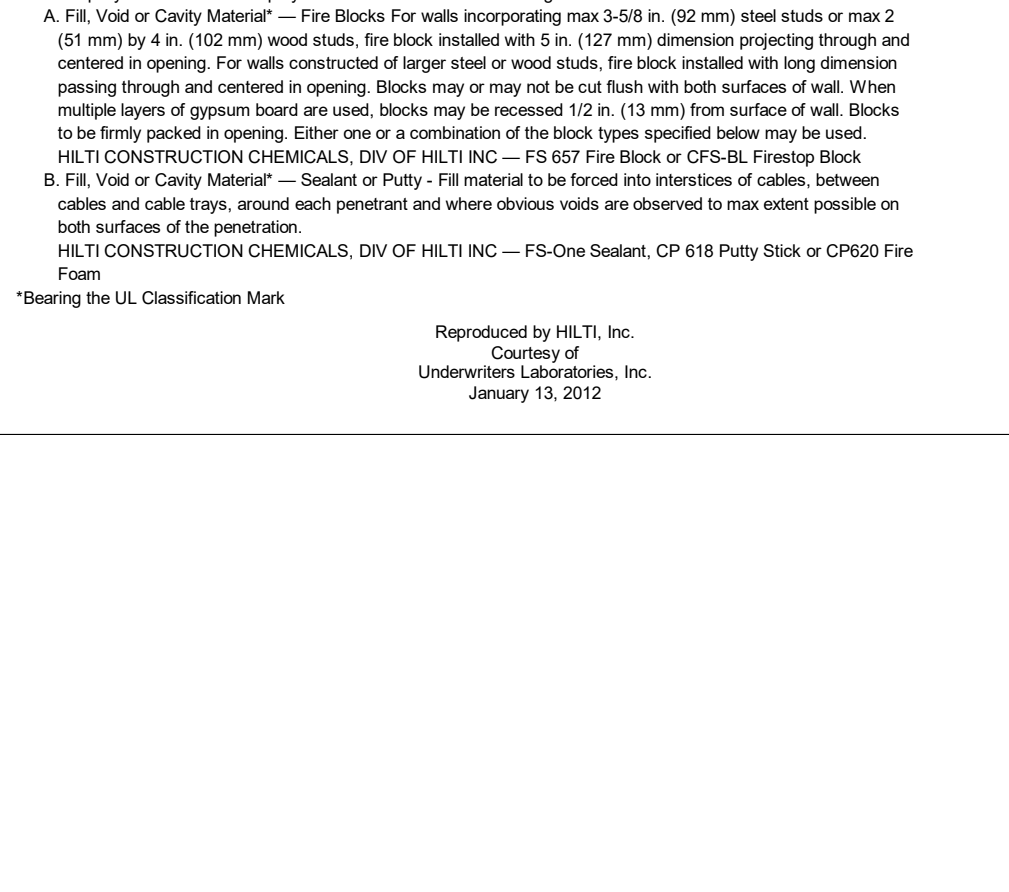
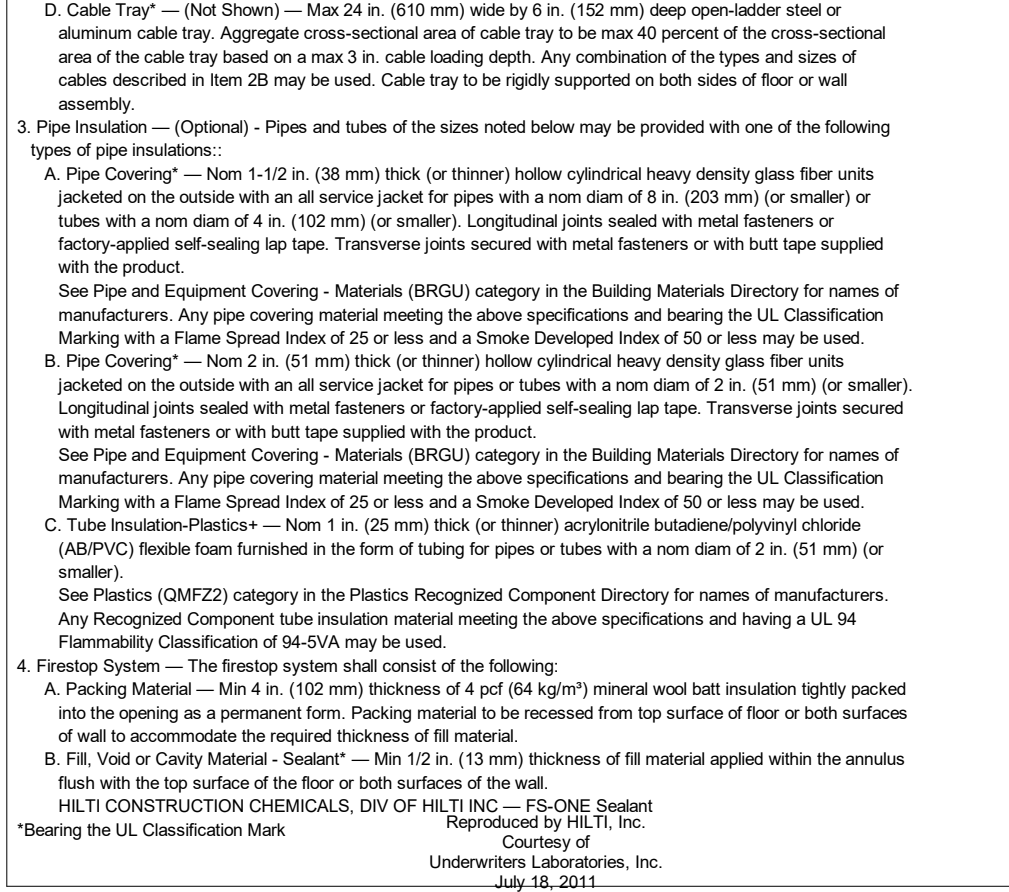
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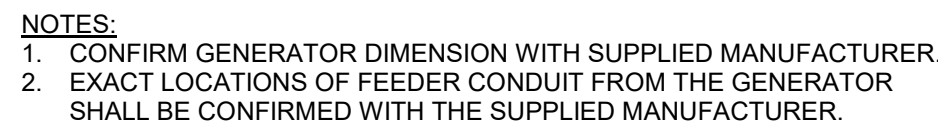
BWA Project #: 2024-1025
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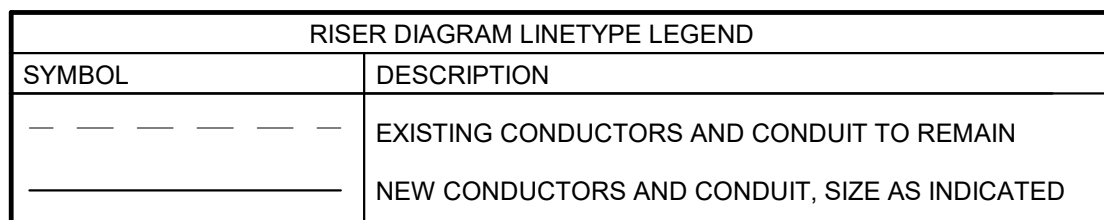
NOTES:

1. Jobsite conditions of each through-penetration firestop system must meet ALL details of the UL-Classified System selected.
2. Where more than one applicable UL-Classified System is listed in the schedules, choose the UL System which is most economical for each through-penetration firestop system.
3. Coordinate work with other trades to assure that penetration opening sizes are appropriate for penetrant locations, and vice versa.





2 GENERATOR PAD DETAIL
NOT TO SCALE



NOTE: PROVIDE U.L. SERIES RATINGS FOR A.I.C. VALUES INDICATED. WHERE NO VALUES ARE SHOWN, ASSUME MINIMUM RATINGS OF 14,000 A.I.C. FOR 480V/3Φ AND 10,000 A.I.C. FOR 208V/3Φ.

KEYED NOTES:
(APPLY THIS SHEET ONLY)

- 1 PROVIDE (1) 1" CONDUIT TO ATS-H FOR CONTROL WIRING.
- 2 GROUND PER NEC ARTICLE 250. CONNECT TO MAIN SERVICE GROUND.
- 3 BOND NEUTRAL TO GROUND.
- 4 PROVIDE A 120V/1P, 20A CIRCUIT FOR BATTERY CHARGER.
- 5 PROVIDE REMOTE EMERGENCY POWER OFF BUTTON FOR SHUT DOWN OF GENERATOR
EPO BUTTON SHALL COMPLY WITH NFPA 110 5.6.5.6 AND NEC 445.18(C).
- 6 PROVIDE TAP AT EXISTING WIRE TROUGH FOR NEW 60A DISCONNECT SWITCH.

Legend:				
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacles	0.36 kVA	100.00%	0.36 kVA	
Miscellaneous	12 kVA	100.00%	12 kVA	
				Total Conn. Load: 12.36 kVA
				Total Est. Demand: 12.36 kVA
				Total Conn.: 34 A
				Total Est. Demand: 34 A

Notes:

Date Signed: 10/14/2024

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architecture/interiors

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TEXAS
(H-ROOM)**
for



2065 KRISTY LN
ROCKWALL, TEXAS 75032

[illegible][illegible]

Date	Project No.
10/14/2024	2023362.00
Sheet Title	
ELECTRICAL RISER DIAGRAM & PANEL SCHEDULES	

Sheet No.
E-003

☒ Released for Construction
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1255 Crescent Green
Ste. 230 | Cary, NC 27518
Phone: 919-747-9884

BWA COA# 13267

BWA Project #: 2024-1025
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SECTION 260505 – COMMON REQUIREMENTS FOR ELECTRICAL

1.1 SCOPE

A. DIVISION 26 INCLUDES ALL SPECIFICATIONS IN THE 260000 SERIES AND THE ACCOMPANYING ELECTRICAL DRAWINGS. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT, AND ALL NECESSARY OPERATIONS TO PROVIDE THE COMPLETE SCOPE OF THE ELECTRICAL SYSTEMS INTENDED UNDER THIS DIVISION. DIVISION 26 IS NOT A STAND-ALONE DOCUMENT, BUT A PART OF THE COMPLETE PROJECT DOCUMENTS.

B. ATTENTION IS CALLED TO THE FACT THAT THERE ARE MANY INTERFACES BETWEEN THE WORK REQUIRED IN THIS DIVISION AND THE WORK REQUIRED IN OTHER DIVISIONS. PROVIDE THE NECESSARY INTERFACE AND COORDINATION WITH OTHER DIVISIONS TO PROVIDE A COMPLETE PROJECT.

1.2 EXISTING CONDITIONS

A. ATTENTION IS CALLED TO THE FACT THAT THE WORK IS TO BE PERFORMED WITHIN AN EXISTING, OPERATIONAL FACILITY. PRIOR TO THE SUBMISSION OF BIDS, EACH BIDDER SHALL VISIT THE PROJECT SITE, THOROUGHLY INVESTIGATE AND BE FAMILIAR WITH ALL EXISTING CONDITIONS, WHICH WILL AFFECT THEIR WORK. EXPECT THE WORK TO BE PERFORMED ABOVE THE EXISTING CEILING.

B. WHEN THIS PROJECT IS FINISHED, THE WORK UNDER THIS DIVISION SHALL BE COMPLETE IN EVERY RESPECT, COMPLETELY INTEGRATED WITH ALL THE EXISTING SYSTEMS, AND LEFT IN PERFECT OPERATING CONDITION. THE ELECTRICAL SERVICE TO THE BUILDING SHALL NOT BE INTERRUPTED AT ANY TIME WITHOUT WRITTEN COORDINATION OF THE BUILDING'S OWNER. ALL EXISTING ELECTRICAL EQUIPMENT REMOVED DURING THE PROJECT SHALL BE REMOVED FROM THE SITE AFTER INSPECTION OF THE BUILDING'S OWNER. ALL EXISTING ELECTRICAL SYSTEMS REQUIRED TO BE OPERATING AT THE PROJECT'S COMPLETION OR REQUIRED TO REMAIN IN USE DURING THE PROJECT SHALL BE RECONNECTED, REPLACED, REROUTED OR OTHERWISE MADE TO FIT WITH PROPER WORKMANSHIP TECHNIQUES AND LEFT IN SAFE WORKING ORDER.

C. CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND WORKMANLIKE MANNER. WHERE AN EXISTING STRUCTURE MUST BE CUT OR EXISTING UTILITIES INTERFERE, SUCH OBSTRUCTIONS SHALL BE BYPASSED, REMOVED, REPLACED OR RELOCATED, PATCHED AND REFINISHED. IF DISTURBED OR DAMAGED SHALL BE REPLACED OR REPAIRED TO ITS PRIOR CONDITION.

1.3 CODES AND REGULATIONS

A. ALL WORK UNDER THIS DIVISION SHALL COMPLY WITH ALL LOCAL AND BUILDING CODES, LAWS, REGULATIONS, ORDINANCES AND THE REQUIREMENTS OF THE 2020 NATIONAL ELECTRICAL CODE.

B. WHERE CONFLICTS OF INSTALLATION REQUIREMENTS OCCUR BETWEEN THE AFORESAIDED CODES, REGULATIONS OR THE CONTRACT DOCUMENTS, THE MOST RESTRICTIVE SHALL GOVERN.

C. OBTAIN ALL PERMITS AND LICENSES AND PAY ALL FEES REQUIRED BY LOCAL AUTHORITIES. ARRANGE FOR ALL NECESSARY INSPECTIONS REQUIRED BY THE AUTHORITY. CONTRACTORS HAVING JURISDICTION AND PROVIDE WRITTEN CERTIFICATES OF APPROVAL TO THE PROJECT OWNER OR HIS DESIGNATED REPRESENTATIVE.

1.4 DEFINITIONS

A. CONTRACT DOCUMENTS: THE COMPLETE SET OF PROJECT DRAWINGS AND SPECIFICATIONS.

B. PROVIDE: FURNISH, INSTALL AND CONNECT.

C. WORK: ALL MATERIALS INSTALLED, INCLUDING ALL LABOR TO PROVIDE COMPLETE SYSTEM.

D. WIRING OR WIRED: ALL WIRE OR CABLE INSTALLED IN CONDUIT FROM PANELBOARD TO EQUIPMENT AND CONNECTED AT BOTH ENDS WITH ALL REQUIRED BOXES, CONNECTORS, COUPLINGS, ETC.

E. CONDUIT: RIGID STEEL CONDUIT INTERMEDIATE METAL CONDUIT (I.M.C.), ELECTRICAL METALLIC TUBING (EMT) PLASTIC CONDUIT (PVC), ELECTRICAL NON-METAL TUBING (ENT), OR FLEXIBLE STEEL CONDUIT.

1.5 DRAWINGS AND SPECIFICATIONS

A. THE DRAWINGS AND SPECIFICATIONS TOGETHER ARE TO BE CONSIDERED AS THE CONTRACT DOCUMENTS. ANY WORK SHOWN IN ONE AND NOT SHOWN IN THE OTHER, OR IMPLIED BY EITHER, SHALL BE PROVIDED TO GIVE A COMPLETE PROJECT.

B. SHOULD ANY CONFLICTS EXIST BETWEEN THE DRAWINGS AND SPECIFICATIONS OR THERE IS AN ITEM SHOWN/CALLED FOR WHICH IS NOT CLEARLY DEFINED, IMMEDIATELY SUBMIT A REQUEST FOR CLARIFICATION. NO ADDITIONAL MONIES WILL BE PAID LATER WHEN A CONFLICT IS RESOLVED OR AN ITEM IS MORE CLEARLY DEFINED.

C. THE DRAWINGS ARE SCHEMATIC AND ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF OUTLETS, ETC. OR THE ROUTING OF CONDUIT.

D. THE EXACT LOCATION OF EQUIPMENT REQUIRED ELECTRICAL CONNECTIONS (MECHANICAL EQUIPMENT, ELEVATORS, LIGHTS, ETC.) SHALL BE AS LOCATED BY OTHER DIVISIONS OF THE CONTRACT DOCUMENTS. REFER TO THE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DOCUMENTS FOR DIMENSIONS AND DETAILS OF BUILDING CONSTRUCTION AND PROVIDE WORK DESCRIBED IN THIS DIVISION SO THAT IT CONFORMS TO THE DETAILS OF THE PROJECT. THE RIGHT IS RESERVED TO MAKE MINOR CHANGES TO THE DRAWINGS TO CORRECT THE DIMENSIONS OF 10"–0" BEFORE IT IS PERMANENTLY INSTALLED WITHOUT INCURRING ADDITIONS TO THE CONTRACT AMOUNT.

1.6 SITE VISIT

A. VISIT THE SITE AND BECOME FAMILIAR WITH ALL ASPECTS OF THE SITE AND EXISTING CONDITIONS BEFORE SUBMITTING CONTRACT PRICE.

B. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.

1.7 DEVIATIONS

A. NO DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF THE ARCHITECT.

B. IF THE EXISTING CONDITIONS MAKE IT DESIRABLE TO MODIFY THE CONTRACT DOCUMENTS IN REGARD TO ANY ITEM, PROVIDE A WRITTEN REQUEST TO THE ARCHITECT.

2.1 STANDARDS FOR MATERIALS AND WORKMANSHIP

A. ALL MATERIALS USED SHALL BE NEW AND SHALL BE STAMPED WITH THE LABEL OF UNDERWRITERS LABORATORIES, INC. (UL).

B. ALL MATERIALS SHALL MEET THE STANDARDS OF THE FOLLOWING ASSOCIATIONS AND INSTITUTES WHERE APPLICABLE:

1. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

2. AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)

3. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

4. NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION (NEMA)

5. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)

C. MANUFACTURER'S NAMES AND CATALOG NUMBERS SPECIFIED HEREIN ARE INTENDED TO DESCRIBE THE MATERIAL AND SET THE STANDARD OF QUALITY. ALL BIDS SHALL BE BASED ON MATERIAL SPECIFIED. REQUESTS FOR APPROVAL OF MATERIAL NOT SPECIFIED SHALL BE CONSIDERED IF THE REQUEST IS IN WRITTEN FORM AND SUBMITTED TO THE ARCHITECT NO LATER THAN FOURTEEN (14) DAYS BEFORE BID DATE. REQUESTS SHALL CONFORM WITH THE PROVISIONS OF THE GENERAL AND SUPPLEMENTARY CONDITIONS.

2.2 SHOP DRAWINGS AND SUBMITTAL

A. THE ENGINEER'S REVIEW OF SHOP DRAWINGS OR SUBMITTALS IS A CURSORY REVIEW TO CHECK FOR GENERAL COMPLIANCE OF THE SUBMITTALS WITH THE DIVISION INTENT OF THE CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY OF COMPLYING WITH THE CONTRACT DOCUMENTS. ALL COORDINATION OF THE WORK SHALL BE STRICTLY COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

B. THE FOLLOWING ITEMS SHALL BE SUBMITTED FOR REVIEW:

1. CONDUIT AND WIRE DEVICES

2. COVERPLATES

3. PANELBOARDS

4. TRANSFORMERS

5. BUSSES

6. OVERCURRENT DEVICES

7. DISCONNECT SWITCHES

8. LIGHTING FIXTURES

9. MOTOR STARTERS

11. GENERATOR

12. TRANSFER SWITCH

C. ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE SUBMITTED IN COMPLIANCE WITH THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY CONDITIONS. NO MORE THAN FOUR (4) COPIES OF SUBMITTALS SHALL BE REVIEWED. ANY ADDITIONAL COPIES WILL BE RETURNED UNMARKED. THE RESPONSIBILITY OF COPYING REVIEW COMMENTS ON ANY ADDITIONAL COPIES WILL REST SOLELY WITH THE CONTRACTOR.

D. ALL SUBMITTALS SHALL BEAR THE NAME OF THE MANUFACTURER TO BE USED.

E. ALL SHOP DRAWINGS AND SUBMITTALS SHALL INCLUDE A STAMPED INDICATION SIGNIFYING THAT THE SUBMITTAL HAS BEEN REVIEWED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE REVIEWED. ANY ADDITIONAL COPIES WILL BE RETURNED UNMARKED. THE RESPONSIBILITY OF COPYING REVIEW COMMENTS ON ANY ADDITIONAL COPIES WILL REST SOLELY WITH THE CONTRACTOR.

F. THE ENGINEER WILL REVIEW AN INDIVIDUAL SUBMITTAL NOT MORE THAN TWO WORKING DAYS AFTER THE SUBMITTAL IS RECEIVED AGAIN ON THE SECOND REVIEW. THE CONTRACTOR WILL BARE ALL RESPONSIBILITY FOR PAYING FOR THE ENGINEER'S TIME FOR ADDITIONAL REVIEWS. SUCH PAYMENTS TO THE ENGINEER SHALL BE WITHHELD FROM THE NEXT MONTHLY PAY APPLICATION.

2.3 RECORD (AS-BUILT) DRAWINGS AND NECESSARY MANUALS

A. AT JOB COMPLETION, SUBMIT TO THE ARCHITECT, A SET OF PRINTS SHOWING ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS. THE DRAWINGS SHALL ALSO HAVE DIMENSIONS LOCATING ALL UNDERGROUND CONDUITS.

B. AT JOB COMPLETION, SUBMIT TO THE ARCHITECT, THREE (3) COPIES OF MAINTENANCE AND INSTALLATION MANUALS FOR ALL EQUIPMENT FURNISHED ON THE PROJECT.

3.1 COORDINATION

A. COORDINATE ALL SPACE REQUIREMENTS WITH ALL OTHER DIVISIONS BEFORE INSTALLING ANY WORK. INSTALL WORK SUCH THAT ADEQUATE SPACE WILL BE ALLOTTED FOR ALL OTHER WORK FROM OTHER DIVISIONS TO BE INSTALLED AND ALSO WILL ALLOW ROOM FOR FUTURE ACCESS FOR REPAIR AND MAINTENANCE.

B. ANY WORK INSTALLED WITHOUT PROPER COORDINATION SHALL BE RELOCATED AT THE ARCHITECT'S DIRECTION WITHOUT INCREASING THE CONTRACT PRICE.

C. DURING THE BIDDING PROCESS OR THE PRICING FOR A GUARANTEED MAXIMUM PRICE, COORDINATE WITH ALL OTHER DIVISIONS FOR THE TOTAL AMOUNT OF WORK REQUIRED IN DIVISION 26. ANY WORK SHOWN OR IMPLIED IN ANOTHER DIVISION REQUIRING WORK IN DIVISION 26 SHALL BE INCLUDED IN THE CONTRACT PRICE REGARDLESS OF WHETHER OR NOT IT IS ADDRESSED IN DIVISION 26.

3.2 PROTECTION OF MATERIALS

A. ALL EQUIPMENT SHALL HAVE THE ORIGINAL FINISH WHEN THE BUILDING IS TURNED OVER TO THE OWNER.

B. PROTECT EQUIPMENT DURING CONSTRUCTION FROM DIRT, WATER, CHEMICAL, MECHANICAL DAMAGE, ETC. PROTECT UNDER CONDUIT OPENINGS SO THAT NO FOREIGN MATERIAL WILL ENTER THE CONDUIT.

3.3 CORING, CUTTING AND PATCHING

A. SET SLEEVES FOR CONDUIT ACCURATELY BEFORE THE CONCRETE FLOORS ARE POURED. OR SET BOXES ON THE FORMS SO AS TO LEAVE OPENINGS IN THE FLOORS IN WHICH THE REQUIRED SLEEVES CAN BE SUBSEQUENTLY LOCATED. FILL IN THE VOIDS AROUND THE SLEEVES WITH CONCRETE.

B. SHOULD THE PERFORMANCE OF THIS PRELIMINARY WORK BE NEGLECTED AND SHOULD CUTTING BE REQUIRED IN ORDER TO INSTALL CONDUIT, SWITCH OR OTHER EQUIPMENT, THE CUTTING AND RESTORING OF SURFACES TO THEIR ORIGINAL CONDITIONS SHALL BE ACCOMPLISHED WITHOUT INCURRING ADDITIONS TO THE CONTRACT.

3.4 CONNECTION TO EQUIPMENT

A. EQUIPMENT FURNISHED BY THE OWNER OR UNDER OTHER SECTIONS, SUCH AS MECHANICAL EQUIPMENT, ELEVATORS, ESCALATORS, SIGNS, KITCHEN EQUIPMENT, ETC., WILL BE INSTALLED BY OTHERS. PROVIDE ELECTRICAL SERVICE AND MAKE THE ELECTRICAL CIRCUIT CONNECTION TO THIS EQUIPMENT.

B. PROVIDE PVC INSULATED FLEXIBLE CORD SETS FOR ALL CORD AND PLUG CONNECTED BUILDING APPLIANCES AND EQUIPMENT. CORDS SHALL BE SIZED IN ACCORDANCE WITH ELECTRICAL CIRCUITS INDICATED. MULTIPLE CONDUCTOR CORDS SHALL BE COT CABLE WITH PVC JACKET AND GREEN INSULATED GROUND CONDUCTOR.

3.5 EQUIPMENT ANCHORING

A. ALL ITEMS OF ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, STANDBY GENERATOR, ETC., SHALL BE SECURELY ANCHORED TO THE BUILDING STRUCTURE. ANCHORING SHALL BE ACCOMPLISHED BY UTILIZING A MINIMUM SIZE OF 3/8" STEEL ANCHOR BOLTS IN THE STRUCTURE AND TO THE ITEM OF EQUIPMENT. A MINIMUM OF TWO (2) ANCHOR BOLTS SHALL BE PROVIDED ON EACH SIDE OF EACH ITEM OF EQUIPMENT WITH THE FOLLOWING EXCEPTIONS:

EXCEPTION NO. 1: IF THE EQUIPMENT MANUFACTURER INCLUDES MORE THAN TWO (2) ANCHOR HOLES PER SIDE IN THE BASE OR BASE FRAME OF THE EQUIPMENT ITEM, THEN THERE SHALL BE ONE ANCHOR FOR EACH ANCHOR HOLE.

EXCEPTION NO. 2: IF THE EQUIPMENT MANUFACTURER RECOMMENDS A PARTICULAR QUANTITY GREATER THAN TWO (2) PER SIDE, THEN THAT QUANTITY OF ANCHORS SHALL BE PROVIDED.

C. TESTS, DEMONSTRATION AND INSTRUCTIONS

A. TEST ALL SYSTEMS DESCRIBED IN THIS DIVISION IN THE PRESENCE OF THE OWNER OR A DESIGNATED REPRESENTATIVE UPON COMPLETION OF THE WORK. DEMONSTRATE THAT THE INSTALLATION IS IN ACCORDANCE WITH CONTRACT DOCUMENTS.

B. ANY WORK FOUND NOT TO BE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS SHALL BE REPAIRED OR REPLACED WITHOUT INCURRING ANY ADDITIONS TO THE CONTRACT PRICE.

C. PROVIDE TO THE OWNER, ALL INSTRUCTION ON MAINTENANCE AND OPERATION OF ALL SYSTEMS AND EQUIPMENT PROVIDED UNDER THIS DIVISION. PROVIDE ALL NECESSARY TOOLS AND PERSONNEL TO THOROUGHLY PRESENT THESE INSTRUCTIONS.

3.7 GUARANTEE

A. ALL SYSTEMS, EQUIPMENT, COMPONENTS, WORK, ETC. PROVIDED UNDER THIS DIVISION SHALL BE COVERED BY A ONE YEAR GUARANTEE STARTING AT THE TIME OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER. ANY DEFECTS IN THE WORK, SYSTEMS, EQUIPMENT OR COMPONENTS FOUND DURING THIS YEAR SHALL BE CORRECTED AT NO CHARGE. THE GUARANTEE SHALL INCLUDE PROVIDING ALL NECESSARY CUTTING, PATCHWORK, REPAINTING, ETC. TO MAKE THE WORK COMPLETE AND GUARANTEE.

B. PRESENT THIS GUARANTEE AND ANY ADDITIONAL WARRANTIES OR GUARANTEES ON FURNISHED EQUIPMENT OR SYSTEMS TO THE ARCHITECT. ALL EQUIPMENT OR SYSTEM GUARANTEES ARE IN ADDITION TO THE GENERAL GUARANTEE.

2. END OF SECTION 26050

SECTION 260519 – LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (600 V AND LESS)

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 CONDUCTORS

A. CONDUCTORS SHALL BE COPPER OF 98% CONDUCTIVITY, 600 VOLT INSULATION. SIZES SPECIFIED ARE AMERICAN WIRE GAUGE (AWG) FOR NO. 4/0 AND SMALLER AND CIRCULAR MILS (CMC) FOR ALL SIZES LARGER THAN NO. 4/0. CONDUCTORS NO. 10 AWG AND SMALLER SHALL BE SOLID AND TYPE "THW" OR "THWN" INSULATION. NO. 8 AND LARGER SHALL BE STRANDED AND TYPE "THW" OR "XHHW" INSULATION.

3.1 WIRING

A. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. NO CONDUCTORS SHALL BE PULLED INTO THE CONDUIT UNTIL THE CONDUIT SYSTEM IS COMPLETE AND PLASTER HAD DRIED. WIRE PULLING LUBRICANTS SHALL BE GARDNER-BENDER "WIREADE" OR IDEAL "YELLOW 77".

B. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FROM OUTLET TO JUNCTION BOX OR PULL BOX. ALL SPLICES AND JOINTS SHALL BE CAREFULLY AND SECURELY MADE TO BE MECHANICALLY AND ELECTRICALLY SOLID WITH PRESSURE TYPE CONNECTORS, GARDNER BENDER "WINGARD" OR IDEAL "WINGNUT". TAPE SHALL BE "SCOTCH" NO. 33 FOR INDOOR AND NO. 88 FOR OUTDOOR OR GARDNER BENDER NO. 95-661, WHERE CONNECTION IS MADE. ANY TERMINALS OF MORE THAN 30 AMPERES CAPACITY AND WHERE CONDUCTORS LARGER THAN NO. 10 ARE CONNECTED TO ANY TERMINAL, COPPER TERMINAL LUGS SHALL BE USED TO JOIN THE CONDUCTORS. WHERE MULTIPLE CONNECTIONS ARE MADE TO THE SAME TERMINAL, INDIVIDUAL LUGS FOR EACH CONDUIT SHALL BE USED.

C. ALUMINUM CONDUCTORS, IF USED FOR SERVICE CONDUCTORS, SHALL BE MADE WITH HIGH COMPRESSION LUGS AS MANUFACTURED BY SQUARE D, IDEAL OR MAC.

D. EACH CONDUIT SHALL HAVE A MINIMUM OF TWO (2) CONDUCTORS PULLED IN UNLESS THAT PARTICULAR CONDUIT IS NOTED AS BEING FOR SYSTEMS OTHER THAN ELECTRICAL CIRCUITRY AND/OR FUTURE USE OR UNLESS NOTED OTHERWISE.

E. CONDUCTORS FOR LIGHTING AND RECEPTACLE CIRCUITS SHALL HAVE COLOR CODED JACKETS. THE WIRING SHALL BE COLOR CODED WITH THE SAME COLOR USED WITH ITS RESPECTIVE PHASE THROUGH THE ENTIRE JOB AS FOLLOWS:

208/120 VOLT SYSTEM

240/127 VOLT SYSTEM

PHASE A – BLACK

PHASE A – BROWN

PHASE B – RED

PHASE B – ORANGE

PHASE C – YELLOW

PHASE C – BLUE

NEUTRAL – WHITE

NEUTRAL – GRAY

GROUND – GREEN

GROUND – GREEN

F. THE FEEDER AND SERVICE ENTRANCE CONDUCTORS SHALL BE COLOR CODED BY THE USE OF COLORED PLASTIC TAPE APPLIED WITHIN 6" OF EACH CONDUIT END.

G. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO. 12 AND WHERE THE HOME RUN FROM CENTER OF LOAD EXCEEDS 100'-0", THE CONDUCTORS FROM HOME RUN OUTLET TO PANEL SHALL BE NO. 10 MINIMUM.

H. FOR BRANCH CIRCUITS TERMINATING IN OUTLET WITHOUT DEVICE, LEAVE MINIMUM OF 12" OF SLACK WIRE COILED FOR CONNECTION OF EQUIPMENT. ALL CONDUCTORS SHALL BE IDENTIFIED WITH PROPER CIRCUIT NUMBERS AT TERMINALS. JUNCTION BOXES AT PANELBOARDS WITHIN 6" OF CONDUIT ENDS.

END OF SECTION 260519

SECTION 260526 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC GROUNDING MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 MANUFACTURERS

A. ALL GROUND CONNECTIONS IN THE BUILDING SYSTEM GROUND SHALL BE DONE WITH CADDWED.

3.1 GROUNDING

A. GROUND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE.

B. PROVIDE AN INSULATED GREEN BONDING JUMPER FROM THE GROUNDING LUG OF ALL RECEPTABLES TO A STEEL CITY "GEE" CLIP OR A SHEET METAL MACHINE SCREW IN THE OUTLET BOX. THE GROUND WIRE INSTALLED BEHIND THE DEVICE MOUNTING SCREWS WILL NOT BE ACCEPTABLE.

C. PROVIDE ONE (1) NO. 6 AWG IN A 3/4" CONDUIT FROM THE SYSTEM GROUND TO THE TELEPHONE COMPANY MAIN DISTRIBUTION FRAME OR SERVICE CABINET AND TO EACH TELEPHONE BACKBOARD.

END OF SECTION 260526

SECTION 260534 – CONDUIT

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC ELECTRICAL MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 MANUFACTURERS

A. ALL JUNCTION BOXES, OUTLET BOXES, MULTI-GANG SWITCH BOXES, UTILITY BOXES, ETC., SHALL BE COVERED WITH A COVERPLATE. THE COVERPLATE SHALL BE A FINISHED PLATE AS SPECIFIED UNLESS DESIGNATED OTHERWISE.

B. COVERPLATES SHALL BE MOUNTED VERTICALLY UNLESS DESIGNATED OTHERWISE.

END OF SECTION 260537

SECTION 260535 – IDENTIFICATION FOR ELECTRICAL SYSTEMS

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC ELECTRICAL MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 CONDUCTORS

A. CONDUCTORS SHALL BE COPPER OF 98% CONDUCTIVITY, 600 VOLT INSULATION. SIZES SPECIFIED ARE AMERICAN WIRE GAUGE (AWG) FOR NO. 4/0 AND SMALLER AND CIRCULAR MILS (CMC) FOR ALL SIZES LARGER THAN NO. 4/0. CONDUCTORS NO. 10 AWG AND SMALLER SHALL BE SOLID AND TYPE "THW" OR "THWN" INSULATION. NO. 8 AND LARGER SHALL BE STRANDED AND TYPE "THW" OR "XHHW" INSULATION.

3.1 WIRING

A. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. NO CONDUCTORS SHALL BE PULLED INTO THE CONDUIT UNTIL THE CONDUIT SYSTEM IS COMPLETE AND PLASTER HAD DRIED. WIRE PULLING LUBRICANTS SHALL BE GARDNER-BENDER "WIREADE" OR IDEAL "YELLOW 77".

B. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FROM OUTLET TO JUNCTION BOX OR PULL BOX. ALL SPLICES AND JOINTS SHALL BE CAREFULLY AND SECURELY MADE TO BE MECHANICALLY AND ELECTRICALLY SOLID WITH PRESSURE TYPE CONNECTORS, GARDNER BENDER "WINGARD" OR IDEAL "WINGNUT". TAPE SHALL BE "SCOTCH" NO. 33 FOR INDOOR AND NO. 88 FOR OUTDOOR OR GARDNER BENDER NO. 95-661, WHERE CONNECTION IS MADE. ANY TERMINALS OF MORE THAN 30 AMPERES CAPACITY AND WHERE CONDUCTORS LARGER THAN NO. 10 ARE CONNECTED TO ANY TERMINAL, COPPER TERMINAL LUGS SHALL BE USED TO JOIN THE CONDUCTORS. WHERE MULTIPLE CONNECTIONS ARE MADE TO THE SAME TERMINAL, INDIVIDUAL LUGS FOR EACH CONDUIT SHALL BE USED.

C. ALUMINUM CONDUCTORS, IF USED FOR SERVICE CONDUCTORS, SHALL BE MADE WITH HIGH COMPRESSION LUGS AS MANUFACTURED BY SQUARE D, IDEAL OR MAC.

D. EACH CONDUIT SHALL HAVE A MINIMUM OF TWO (2) CONDUCTORS PULLED IN UNLESS THAT PARTICULAR CONDUIT IS NOTED AS BEING FOR SYSTEMS OTHER THAN ELECTRICAL CIRCUITRY AND/OR FUTURE USE OR UNLESS NOTED OTHERWISE.

E. CONDUCTORS FOR LIGHTING AND RECEPTACLE CIRCUITS SHALL HAVE COLOR CODED JACKETS. THE WIRING SHALL BE COLOR CODED WITH THE SAME COLOR USED WITH ITS RESPECTIVE PHASE THROUGH THE ENTIRE JOB AS FOLLOWS:

208/120 VOLT SYSTEM

240/127 VOLT SYSTEM

PHASE A – BLACK

PHASE A – BROWN

PHASE B – RED

PHASE B – ORANGE

PHASE C – YELLOW

PHASE C – BLUE

NEUTRAL – WHITE

NEUTRAL – GRAY

GROUND – GREEN

GROUND – GREEN

F. THE FEEDER AND SERVICE ENTRANCE CONDUCTORS SHALL BE COLOR CODED BY THE USE OF COLORED PLASTIC TAPE APPLIED WITHIN 6" OF EACH CONDUIT END.

G. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO. 12 AND WHERE THE HOME RUN FROM CENTER OF LOAD EXCEEDS 100'-0", THE CONDUCTORS FROM HOME RUN OUTLET TO PANEL SHALL BE NO. 10 MINIMUM.

H. FOR BRANCH CIRCUITS TERMINATING IN OUTLET WITHOUT DEVICE, LEAVE MINIMUM OF 12" OF SLACK WIRE COILED FOR CONNECTION OF EQUIPMENT. ALL CONDUCTORS SHALL BE IDENTIFIED WITH PROPER CIRCUIT NUMBERS AT TERMINALS. JUNCTION BOXES AT PANELBOARDS WITHIN 6" OF CONDUIT ENDS.

END OF SECTION 260519

SECTION 260526 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC GROUNDING MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 MANUFACTURERS

A. ALL GROUND CONNECTIONS IN THE BUILDING SYSTEM GROUND SHALL BE DONE WITH CADDWED.

3.1 GROUNDING

A. GROUND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE.

B. PROVIDE AN INSULATED GREEN BONDING JUMPER FROM THE GROUNDING LUG OF ALL RECEPTABLES TO A STEEL CITY "GEE" CLIP OR A SHEET METAL MACHINE SCREW IN THE OUTLET BOX. THE GROUND WIRE INSTALLED BEHIND THE DEVICE MOUNTING SCREWS WILL NOT BE ACCEPTABLE.

C. PROVIDE ONE (1) NO. 6 AWG IN A 3/4" CONDUIT FROM THE SYSTEM GROUND TO THE TELEPHONE COMPANY MAIN DISTRIBUTION FRAME OR SERVICE CABINET AND TO EACH TELEPHONE BACKBOARD.

END OF SECTION 260526

SECTION 260534 – CONDUIT

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC ELECTRICAL MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 MANUFACTURERS

A. ALL JUNCTION BOXES, OUTLET BOXES, MULTI-GANG SWITCH BOXES, UTILITY BOXES, ETC., SHALL BE COVERED WITH A COVERPLATE. THE COVERPLATE SHALL BE A FINISHED PLATE AS SPECIFIED UNLESS DESIGNATED OTHERWISE.

B. COVERPLATES SHALL BE MOUNTED VERTICALLY UNLESS DESIGNATED OTHERWISE.

END OF SECTION 260537

SECTION 260535 – IDENTIFICATION FOR ELECTRICAL SYSTEMS

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC ELECTRICAL MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 CONDUCTORS

A. CONDUCTORS SHALL BE COPPER OF 98% CONDUCTIVITY, 600 VOLT INSULATION. SIZES SPECIFIED ARE AMERICAN WIRE GAUGE (AWG) FOR NO. 4/0 AND SMALLER AND CIRCULAR MILS (CMC) FOR ALL SIZES LARGER THAN NO. 4/0. CONDUCTORS NO. 10 AWG AND SMALLER SHALL BE SOLID AND TYPE "THW" OR "THWN" INSULATION. NO. 8 AND LARGER SHALL BE STRANDED AND TYPE "THW" OR "XHHW" INSULATION.

3.1 WIRING

A. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. NO CONDUCTORS SHALL BE PULLED INTO THE CONDUIT UNTIL THE CONDUIT SYSTEM IS COMPLETE AND PLASTER HAD DRIED. WIRE PULLING LUBRICANTS SHALL BE GARDNER-BENDER "WIREADE" OR IDEAL "YELLOW 77".

B. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FROM OUTLET TO JUNCTION BOX OR PULL BOX. ALL SPLICES AND JOINTS SHALL BE CAREFULLY AND SECURELY MADE TO BE MECHANICALLY AND ELECTRICALLY SOLID WITH PRESSURE TYPE CONNECTORS, GARDNER BENDER "WINGARD" OR IDEAL "WINGNUT". TAPE SHALL BE "SCOTCH" NO. 33 FOR INDOOR AND NO. 88 FOR OUTDOOR OR GARDNER BENDER NO. 95-661, WHERE CONNECTION IS MADE. ANY TERMINALS OF MORE THAN 30 AMPERES CAPACITY AND WHERE CONDUCTORS LARGER THAN NO. 10 ARE CONNECTED TO ANY TERMINAL, COPPER TERMINAL LUGS SHALL BE USED TO JOIN THE CONDUCTORS. WHERE MULTIPLE CONNECTIONS ARE MADE TO THE SAME TERMINAL, INDIVIDUAL LUGS FOR EACH CONDUIT SHALL BE USED.

C. ALUMINUM CONDUCTORS, IF USED FOR SERVICE CONDUCTORS, SHALL BE MADE WITH HIGH COMPRESSION LUGS AS MANUFACTURED BY SQUARE D, IDEAL OR MAC.

D. EACH CONDUIT SHALL HAVE A MINIMUM OF TWO (2) CONDUCTORS PULLED IN UNLESS THAT PARTICULAR CONDUIT IS NOTED AS BEING FOR SYSTEMS OTHER THAN ELECTRICAL CIRCUITRY AND/OR FUTURE USE OR UNLESS NOTED OTHERWISE.

E. CONDUCTORS FOR LIGHTING AND RECEPTACLE CIRCUITS SHALL HAVE COLOR CODED JACKETS. THE WIRING SHALL BE COLOR CODED WITH THE SAME COLOR USED WITH ITS RESPECTIVE PHASE THROUGH THE ENTIRE JOB AS FOLLOWS:

208/120 VOLT SYSTEM

240/127 VOLT SYSTEM

PHASE A – BLACK

PHASE A – BROWN

PHASE B – RED

PHASE B – ORANGE

PHASE C – YELLOW

PHASE C – BLUE

NEUTRAL – WHITE

NEUTRAL – GRAY

GROUND – GREEN

GROUND – GREEN

F. THE FEEDER AND SERVICE ENTRANCE CONDUCTORS SHALL BE COLOR CODED BY THE USE OF COLORED PLASTIC TAPE APPLIED WITHIN 6" OF EACH CONDUIT END.

G. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO. 12 AND WHERE THE HOME RUN FROM CENTER OF LOAD EXCEEDS 100'-0", THE CONDUCTORS FROM HOME RUN OUTLET TO PANEL SHALL BE NO. 10 MINIMUM.

H. FOR BRANCH CIRCUITS TERMINATING IN OUTLET WITHOUT DEVICE, LEAVE MINIMUM OF 12" OF SLACK WIRE COILED FOR CONNECTION OF EQUIPMENT. ALL CONDUCTORS SHALL BE IDENTIFIED WITH PROPER CIRCUIT NUMBERS AT TERMINALS. JUNCTION BOXES AT PANELBOARDS WITHIN 6" OF CONDUIT ENDS.

END OF SECTION 260519

SECTION 260526 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC GROUNDING MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 MANUFACTURERS

A. ALL GROUND CONNECTIONS IN THE BUILDING SYSTEM GROUND SHALL BE DONE WITH CADDWED.

3.1 GROUNDING

A. GROUND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE.

B. PROVIDE AN INSULATED GREEN BONDING JUMPER FROM THE GROUNDING LUG OF ALL RECEPTABLES TO A STEEL CITY "GEE" CLIP OR A SHEET METAL MACHINE SCREW IN THE OUTLET BOX. THE GROUND WIRE INSTALLED BEHIND THE DEVICE MOUNTING SCREWS WILL NOT BE ACCEPTABLE.

C. PROVIDE ONE (1) NO. 6 AWG IN A 3/4" CONDUIT FROM THE SYSTEM GROUND TO THE TELEPHONE COMPANY MAIN DISTRIBUTION FRAME OR SERVICE CABINET AND TO EACH TELEPHONE BACKBOARD.

END OF SECTION 260526

SECTION 260534 – CONDUIT

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC ELECTRICAL MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 MANUFACTURERS

A. ALL JUNCTION BOXES, OUTLET BOXES, MULTI-GANG SWITCH BOXES, UTILITY BOXES, ETC., SHALL BE COVERED WITH A COVERPLATE. THE COVERPLATE SHALL BE A FINISHED PLATE AS SPECIFIED UNLESS DESIGNATED OTHERWISE.

B. COVERPLATES SHALL BE MOUNTED VERTICALLY UNLESS DESIGNATED OTHERWISE.

END OF SECTION 260537

SECTION 260535 – IDENTIFICATION FOR ELECTRICAL SYSTEMS

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC ELECTRICAL MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 CONDUCTORS

A. CONDUCTORS SHALL BE COPPER OF 98% CONDUCTIVITY, 600 VOLT INSULATION. SIZES SPECIFIED ARE AMERICAN WIRE GAUGE (AWG) FOR NO. 4/0 AND SMALLER AND CIRCULAR MILS (CMC) FOR ALL SIZES LARGER THAN NO. 4/0. CONDUCTORS NO. 10 AWG AND SMALLER SHALL BE SOLID AND TYPE "THW" OR "THWN" INSULATION. NO. 8 AND LARGER SHALL BE STRANDED AND TYPE "THW" OR "XHHW" INSULATION.

3.1 WIRING

A. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. NO CONDUCTORS SHALL BE PULLED INTO THE CONDUIT UNTIL THE CONDUIT SYSTEM IS COMPLETE AND PLASTER HAD DRIED. WIRE PULLING LUBRICANTS SHALL BE GARDNER-BENDER "WIREADE" OR IDEAL "YELLOW 77".

B. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FROM OUTLET TO JUNCTION BOX OR PULL BOX. ALL SPLICES AND JOINTS SHALL BE CAREFULLY AND SECURELY MADE TO BE MECHANICALLY AND ELECTRICALLY SOLID WITH PRESSURE TYPE CONNECTORS, GARDNER BENDER "WINGARD" OR IDEAL "WINGNUT". TAPE SHALL BE "SCOTCH" NO. 33 FOR INDOOR AND NO. 88 FOR OUTDOOR OR GARDNER BENDER NO. 95-661, WHERE CONNECTION IS MADE. ANY TERMINALS OF MORE THAN 30 AMPERES CAPACITY AND WHERE CONDUCTORS LARGER THAN NO. 10 ARE CONNECTED TO ANY TERMINAL, COPPER TERMINAL LUGS SHALL BE USED TO JOIN THE CONDUCTORS. WHERE MULTIPLE CONNECTIONS ARE MADE TO THE SAME TERMINAL, INDIVIDUAL LUGS FOR EACH CONDUIT SHALL BE USED.

C. ALUMINUM CONDUCTORS, IF USED FOR SERVICE CONDUCTORS, SHALL BE MADE WITH HIGH COMPRESSION LUGS AS MANUFACTURED BY SQUARE D, IDEAL OR MAC.

D. EACH CONDUIT SHALL HAVE A MINIMUM OF TWO (2) CONDUCTORS PULLED IN UNLESS THAT PARTICULAR CONDUIT IS NOTED AS BEING FOR SYSTEMS OTHER THAN ELECTRICAL CIRCUITRY AND/OR FUTURE USE OR UNLESS NOTED OTHERWISE.

E. CONDUCTORS FOR LIGHTING AND RECEPTACLE CIRCUITS SHALL HAVE COLOR CODED JACKETS. THE WIRING SHALL BE COLOR CODED WITH THE SAME COLOR USED WITH ITS RESPECTIVE PHASE THROUGH THE ENTIRE JOB AS FOLLOWS:

208/120 VOLT SYSTEM

240/127 VOLT SYSTEM

PHASE A – BLACK

PHASE A – BROWN

PHASE B – RED

PHASE B – ORANGE

PHASE C – YELLOW

PHASE C – BLUE

NEUTRAL – WHITE

NEUTRAL – GRAY

GROUND – GREEN

GROUND – GREEN

F. THE FEEDER AND SERVICE ENTRANCE CONDUCTORS SHALL BE COLOR CODED BY THE USE OF COLORED PLASTIC TAPE APPLIED WITHIN 6" OF EACH CONDUIT END.

G. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO. 12 AND WHERE THE HOME RUN FROM CENTER OF LOAD EXCEEDS 100'-0", THE CONDUCTORS FROM HOME RUN OUTLET TO PANEL SHALL BE NO. 10 MINIMUM.

H. FOR BRANCH CIRCUITS TERMINATING IN OUTLET WITHOUT DEVICE, LEAVE MINIMUM OF 12" OF SLACK WIRE COILED FOR CONNECTION OF EQUIPMENT. ALL CONDUCTORS SHALL BE IDENTIFIED WITH PROPER CIRCUIT NUMBERS AT TERMINALS. JUNCTION BOXES AT PANELBOARDS WITHIN 6" OF CONDUIT ENDS.

END OF SECTION 260519

SECTION 260526 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC GROUNDING MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 MANUFACTURERS

A. ALL GROUND CONNECTIONS IN THE BUILDING SYSTEM GROUND SHALL BE DONE WITH CADDWED.

3.1 GROUNDING

A. GROUND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE.

B. PROVIDE AN INSULATED GREEN BONDING JUMPER FROM THE GROUNDING LUG OF ALL RECEPTABLES TO A STEEL CITY "GEE" CLIP OR A SHEET METAL MACHINE SCREW IN THE OUTLET BOX. THE GROUND WIRE INSTALLED BEHIND THE DEVICE MOUNTING SCREWS WILL NOT BE ACCEPTABLE.

C. PROVIDE ONE (1) NO. 6 AWG IN A 3/4" CONDUIT FROM THE SYSTEM GROUND TO THE TELEPHONE COMPANY MAIN DISTRIBUTION FRAME OR SERVICE CABINET AND TO EACH TELEPHONE BACKBOARD.

END OF SECTION 260526

SECTION 260534 – CONDUIT

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC ELECTRICAL MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 MANUFACTURERS

A. ALL JUNCTION BOXES, OUTLET BOXES, MULTI-GANG SWITCH BOXES, UTILITY BOXES, ETC., SHALL BE COVERED WITH A COVERPLATE. THE COVERPLATE SHALL BE A FINISHED PLATE AS SPECIFIED UNLESS DESIGNATED OTHERWISE.

B. COVERPLATES SHALL BE MOUNTED VERTICALLY UNLESS DESIGNATED OTHERWISE.

END OF SECTION 260537

SECTION 260535 – IDENTIFICATION FOR ELECTRICAL SYSTEMS

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC ELECTRICAL MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 CONDUCTORS

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3.1 WIRING

A. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. NO CONDUCTORS SHALL BE PULLED INTO THE CONDUIT UNTIL THE CONDUIT SYSTEM IS COMPLETE AND PLASTER HAD DRIED. WIRE PULLING LUBRICANTS SHALL BE GARDNER-BENDER "WIREADE" OR IDEAL "YELLOW 77".

B. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FROM OUTLET TO JUNCTION BOX OR PULL BOX. ALL SPLICES AND JOINTS SHALL BE CAREFULLY AND SECURELY MADE TO BE MECHANICALLY AND ELECTRICALLY SOLID WITH PRESSURE TYPE CONNECTORS, GARDNER BENDER "WINGARD" OR IDEAL "WINGNUT". TAPE SHALL BE "SCOTCH" NO. 33 FOR INDOOR AND NO. 88 FOR OUTDOOR OR GARDNER BENDER NO. 95-661, WHERE CONNECTION IS MADE. ANY TERMINALS OF MORE THAN 30 AMPERES CAPACITY AND WHERE CONDUCTORS LARGER THAN NO. 10 ARE CONNECTED TO ANY TERMINAL, COPPER TERMINAL LUGS SHALL BE USED TO JOIN THE CONDUCTORS. WHERE MULTIPLE CONNECTIONS ARE MADE TO THE SAME TERMINAL, INDIVIDUAL LUGS FOR EACH CONDUIT SHALL BE USED.

C. ALUMINUM CONDUCTORS, IF USED FOR SERVICE CONDUCTORS, SHALL BE MADE WITH HIGH COMPRESSION LUGS AS MANUFACTURED BY SQUARE D, IDEAL OR MAC.

D. EACH CONDUIT SHALL HAVE A MINIMUM OF TWO (2) CONDUCTORS PULLED IN UNLESS THAT PARTICULAR CONDUIT IS NOTED AS BEING FOR SYSTEMS OTHER THAN ELECTRICAL CIRCUITRY AND/OR FUTURE USE OR UNLESS NOTED OTHERWISE.

E. CONDUCTORS FOR LIGHTING AND RECEPTACLE CIRCUITS SHALL HAVE COLOR CODED JACKETS. THE WIRING SHALL BE COLOR CODED WITH THE SAME COLOR USED WITH ITS RESPECTIVE PHASE THROUGH THE ENTIRE JOB AS FOLLOWS:

208/120 VOLT SYSTEM

240/127 VOLT SYSTEM

PHASE A – BLACK

PHASE A – BROWN

PHASE B – RED

PHASE B – ORANGE

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PHASE C – BLUE

NEUTRAL – WHITE

NEUTRAL – GRAY

GROUND – GREEN

GROUND – GREEN

F. THE FEEDER AND SERVICE ENTRANCE CONDUCTORS SHALL BE COLOR CODED BY THE USE OF COLORED PLASTIC TAPE APPLIED WITHIN 6" OF EACH CONDUIT END.

G. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO. 12 AND WHERE THE HOME RUN FROM CENTER OF LOAD EXCEEDS 100'-0", THE CONDUCTORS FROM HOME RUN OUTLET TO PANEL SHALL BE NO. 10 MINIMUM.

H. FOR BRANCH CIRCUITS TERMINATING IN OUTLET WITHOUT DEVICE, LEAVE MINIMUM OF 12" OF SLACK WIRE COILED FOR CONNECTION OF EQUIPMENT. ALL CONDUCTORS SHALL BE IDENTIFIED WITH PROPER CIRCUIT NUMBERS AT TERMINALS. JUNCTION BOXES AT PANELBOARDS WITHIN 6" OF CONDUIT ENDS.

END OF SECTION 260519

SECTION 260526 – GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC GROUNDING MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 MANUFACTURERS

A. ALL GROUND CONNECTIONS IN THE BUILDING SYSTEM GROUND SHALL BE DONE WITH CADDWED.

3.1 GROUNDING

A. GROUND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE.

B. PROVIDE AN INSULATED GREEN BONDING JUMPER FROM THE GROUNDING LUG OF ALL RECEPTABLES TO A STEEL CITY "GEE" CLIP OR A SHEET METAL MACHINE SCREW IN THE OUTLET BOX. THE GROUND WIRE INSTALLED BEHIND THE DEVICE MOUNTING SCREWS WILL NOT BE ACCEPTABLE.

C. PROVIDE ONE (1) NO. 6 AWG IN A 3/4" CONDUIT FROM THE SYSTEM GROUND TO THE TELEPHONE COMPANY MAIN DISTRIBUTION FRAME OR SERVICE CABINET AND TO EACH TELEPHONE BACKBOARD.

END OF SECTION 260526

SECTION 260534 – CONDUIT

1.1 DESCRIPTION

A. ALL WORK SPECIFIED IN THIS SECTION SHALL COMPLY WITH THE PROVISIONS OF SECTION 260500.

B. THIS SECTION DESCRIBES THE BASIC ELECTRICAL MATERIALS AND INSTALLATION METHODS THAT ARE ACCEPTABLE AND APPLICABLE TO DIVISION 26.

2.1 MANUFACTURERS

A. ALL JUNCTION BOXES, OUTLET BOXES, MULTI-GANG SWITCH BOXES, UTILITY BOXES, ETC., SHALL BE COVERED WITH A COVERPLATE. THE COVERPLATE SHALL BE A FINISHED PLATE AS SPECIFIED UNLESS DESIGNATED OTHERWISE.

B. COVERPLATES SHALL BE MOUNTED VERTICALLY UNLESS DESIGNATED OTHERWISE.



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for



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ROCKWALL, TEXAS 75032

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Date	Project No
10/14/2024	2023362 00

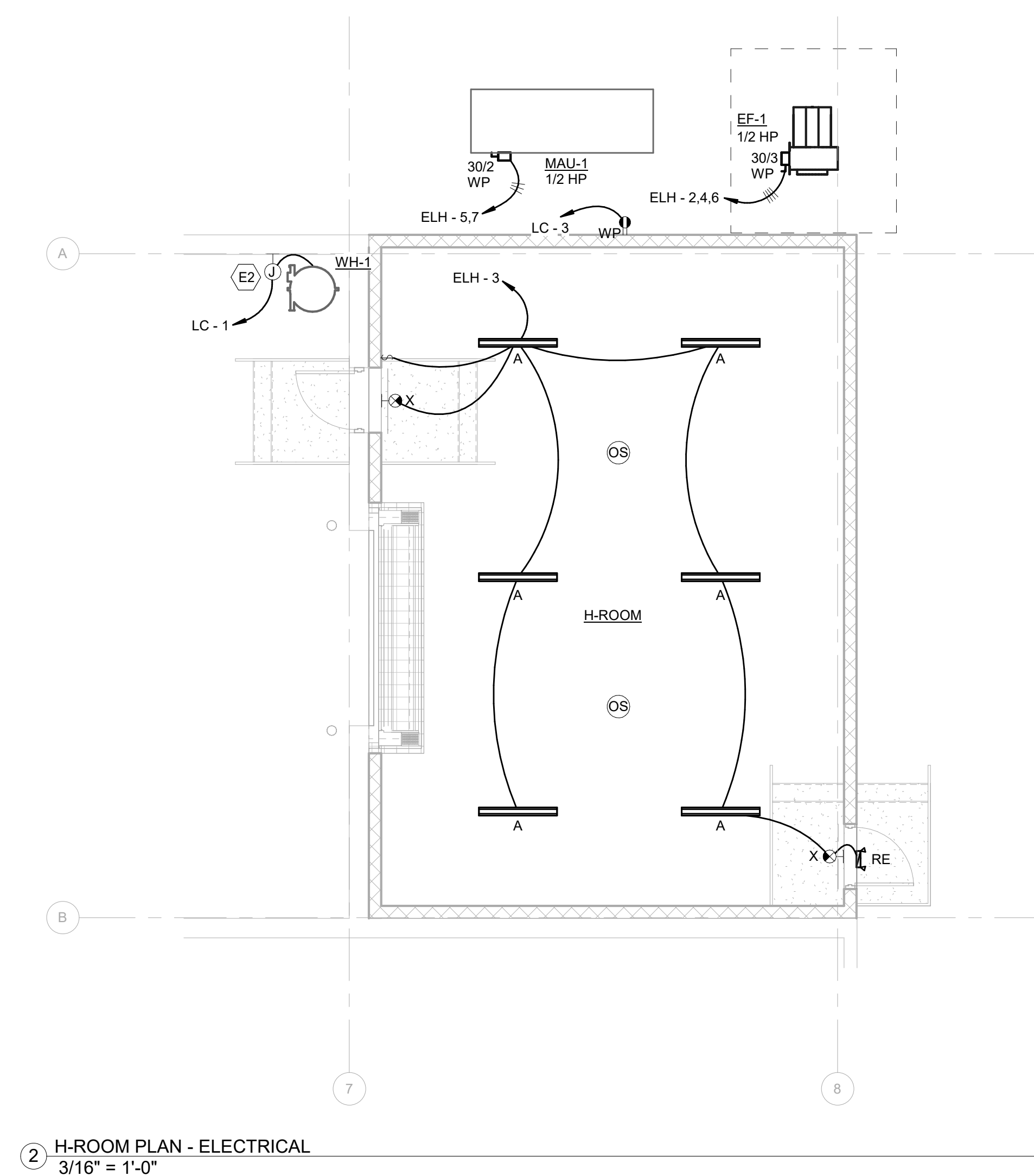
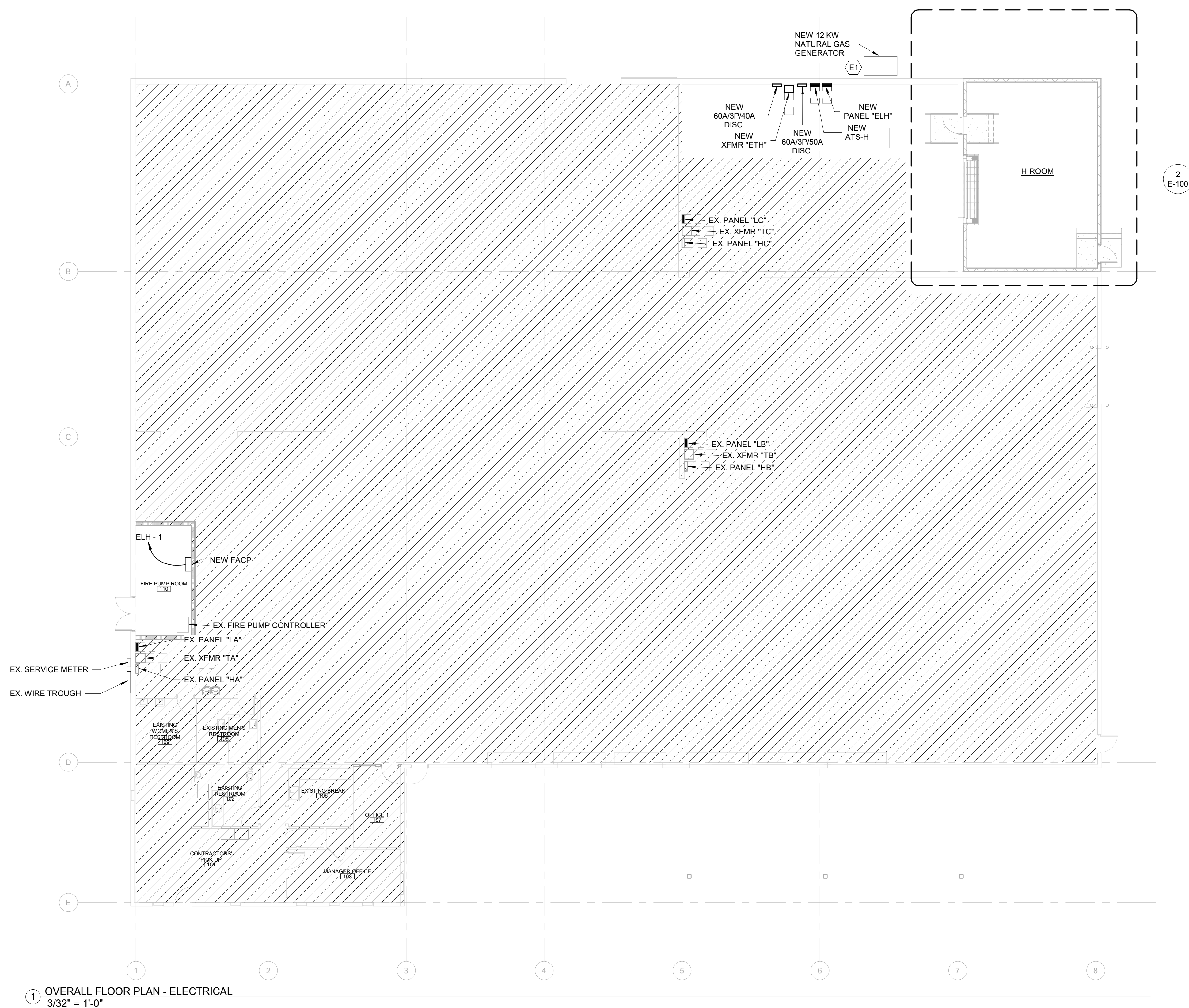
Sheet Title
ELECTRICAL SPECIFICATIONS

Sheet No

E-005

L-003

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- | KEY NOTES | |
|-----------|--|
| E1 | COORDINATE EXACT GENERATOR LOCATION AND ALL NATURAL GAS CONNECTIONS WITH CIVIL TEAM. |
| E2 | PROVIDE 120V CIRCUIT FOR GAS WATER HEATER AS REQUIRED. |

GENERAL NOTES

1. "EX" INDICATES EXISTING DEVICE TO REMAIN, "RE" INDICATES EXISTING DEVICE TO BE INSTALLED IN NEW LOCATION. ALL OTHER DEVICES SHALL BE REMOVED
2. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL NEW DEVICES WITH ARCHITECTURAL DRAWINGS AND OTHER DOCUMENTS PROVIDED AT INSTALLATION. CENTER ALL RECEPTABLES ON WALLS U.O.N.
3. PACE CONTINUOUS, UNSWITCHED NOT TO ALL EMERGENCY FIXTURES AND EXIT SIGNS
4. CEILING MOUNTED OCCUPANCY SENSORS ARE TO CONTROL ROOM / AREA WHERE INDICATED. SENSORS SHALL BE INSTALLED IN ROOMS WITH NO OFF POSITION. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION OF SENSORS AND ZONES
5. SHADED AREAS ARE NOT IN SCOPE
6. RECEPTABLES SHALL BE INSTALLED PER ANSI N117-1
7. ALL ELECTRICAL CIRCUITS SHALL BE PROVIDED WITH A SEPARATE AND DEDICATED NEUTRAL FOR EACH INDIVIDUAL CIRCUIT
8. EMT CONDUIT SHALL BE UTILIZED IN EXPOSED CEILING AREAS AND FOR HOMERUNS TO THE PANELBOARDS. MC SHALL BE SERVING IN ALL WALLS AND CONCEALED AREAS
9. RELOCATE EXISTING J-BOXES SERVING ELECTRICAL, FIRE ALARM, AND OTHER SYSTEMS TO AN ACCESSIBLE LOCATION. IF NEW CEILINGS ARE SCHEDULED THAT RENDER THE J-BOXES INACCESSIBLE (I.E. GYP CEILINGS, SPECIALTY FINISHES, EXTENDED HANGERS, ETC.), RELOCATE, CABLING, ETC. AS REQUIRED FOR RELOCATION.
10. COORDINATE THE EXACT LOCATIONS OF ALL EXISTING AND NEW DEVICES WITH THE ARCHITECTURAL U.O.N. WITH DIVISION 23, MODIFY/EXTEND THE EXISTING CIRCUIT SERVING THE RELOCATED EQUIPMENT AND REPAIR THE EXISTING CIRCUIT
11. ALL ELECTRICAL DEVICES, FIXTURES, BOXES, AND WIRING WITHIN H-ROOM SHALL BE CLASS 1
12. DIVISION 16 RATED AT LEAST CONFORMANCE WITH NEC SECTION 501 REQUIREMENTS



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Date	Project No.
10/14/2024	2023362.00
Sheet Title	
FLOOR PLAN - ELECTRICAL	

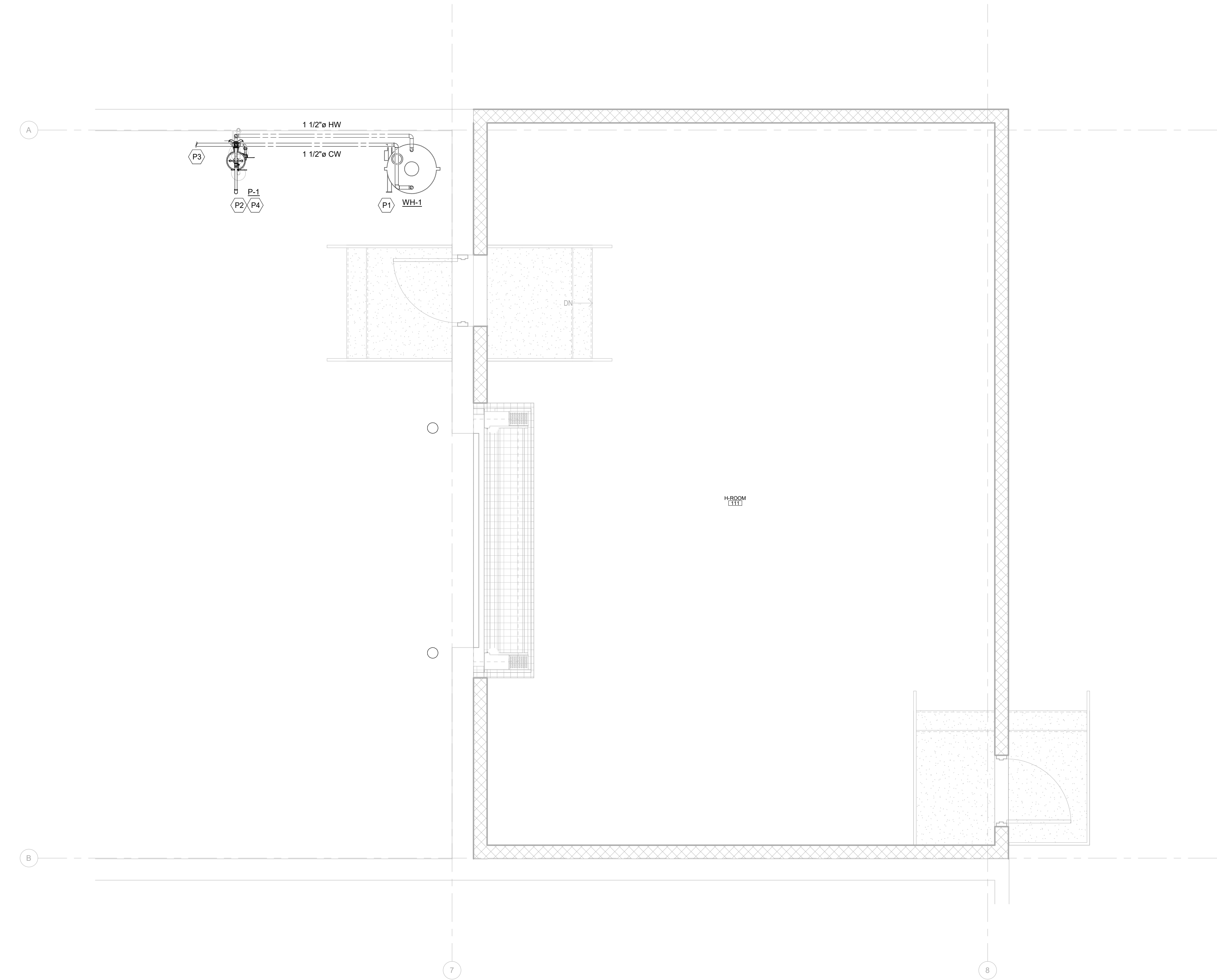
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BW & A Barrett, Woodyard
& Associates, Inc.
1255 Crescent Green
Ste. 230 | Cary, NC 27518
Phone: 919-747-9884
BWA COA# 13267

BWA Project #: 2024-1025
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1 Plumbing Plan - H Room
3/8" = 1'-0"

KEY NOTES

- P1 PROVIDE AND INSTALL NEW WATER HEATER AS SCHEDULED ON P-001. SEE DETAIL 1/P-001.
- P2 PROVIDE AND INSTALL PLUMBING FIXTURE AS SCHEDULED ON P-001. SEE DETAIL 2/P-001.
- P3 CONNECT NEW PIPING TO PIPING OF EQUAL OR GREATER SIZE. CONTRACTOR TO VERIFY CONNECTION LOCATION PRIOR TO BEGINNING CONSTRUCTION.
- P4 NO DRAIN PROVIDED. EYEWASH, SHOWER, OR WATER HEATER WILL CAUSE A SPILL. PROVIDE ADD ALTERNATE PRICE. PROVIDE AND INSTALL DEDICATED 4" FLOOR DRAIN FOR AREA DRAINAGE. CONNECT TO EXISTING BELOW SLAB PIPING. CONNECT 2" VENT AND TRAP PRIMER TO EXISTING PIPING. NOTE: THAT FLOOR DRAIN IS NOT EXPECTED TO CAPTURE ALL SPILLAGE. COORDINATION WITH SLAB SLOPING IS RECOMMENDED.

GENERAL NOTES

- CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND ASCERTAIN ALL EXISTING CONDITIONS. NO ALLOWANCES WILL BE PROVIDED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. CONTRACTOR SHALL DEMO ALL NON-ESSENTIAL DUCTWORK AND PIPING WHICH IS NOT REQUIRED FOR THIS INSTALLATION. COORDINATE ALL DEMO WITH BUILDING REP BEFORE DEMO WORK COMMENCES.
- EXISTING WORK SHOWN HERE IS BASED ON SITE VISIT AND/OR PROVIDED INFORMATION. THESE DRAWINGS ARE NOT NECESSARILY ACCURATE FOR EXISTING MATERIALS AND SHOULD NOT BE INTERPRETED TO BE A STRICT REPRESENTATION OF AS-BUILT CONDITIONS.
- ALL PIPING SHOWN IS SCHEMATIC IN NATURE AND DOES NOT REFLECT ALL OFFSETS, CHANGES IN ELEVATION, ETC. COORDINATION BETWEEN TRADES IS NECESSARY. OFFSET AS NEEDED.
- FIELD COORDINATE INSTALLATION OF PIPING, FIXTURES, EQUIPMENT, ETC. WITH ALL OTHER TRADES.
- SLOPE ALL SANITARY, WASTE, & VENT PIPING AT 1/8" PER FOOT UNLESS NOTED OTHERWISE.
- CONTRACTOR TO VERIFY ALL PLUMBING EQUIPMENT AND FIXTURES ARE IN PROPER WORKING CONDITION. IF NOT, REPLACE WITH NEW, MATCHING BASE BUILDING STANDARDS.

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Ste. 230 | Cary, NC 27518
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BWA CO# 13267

BWA Project #: 2024-1025
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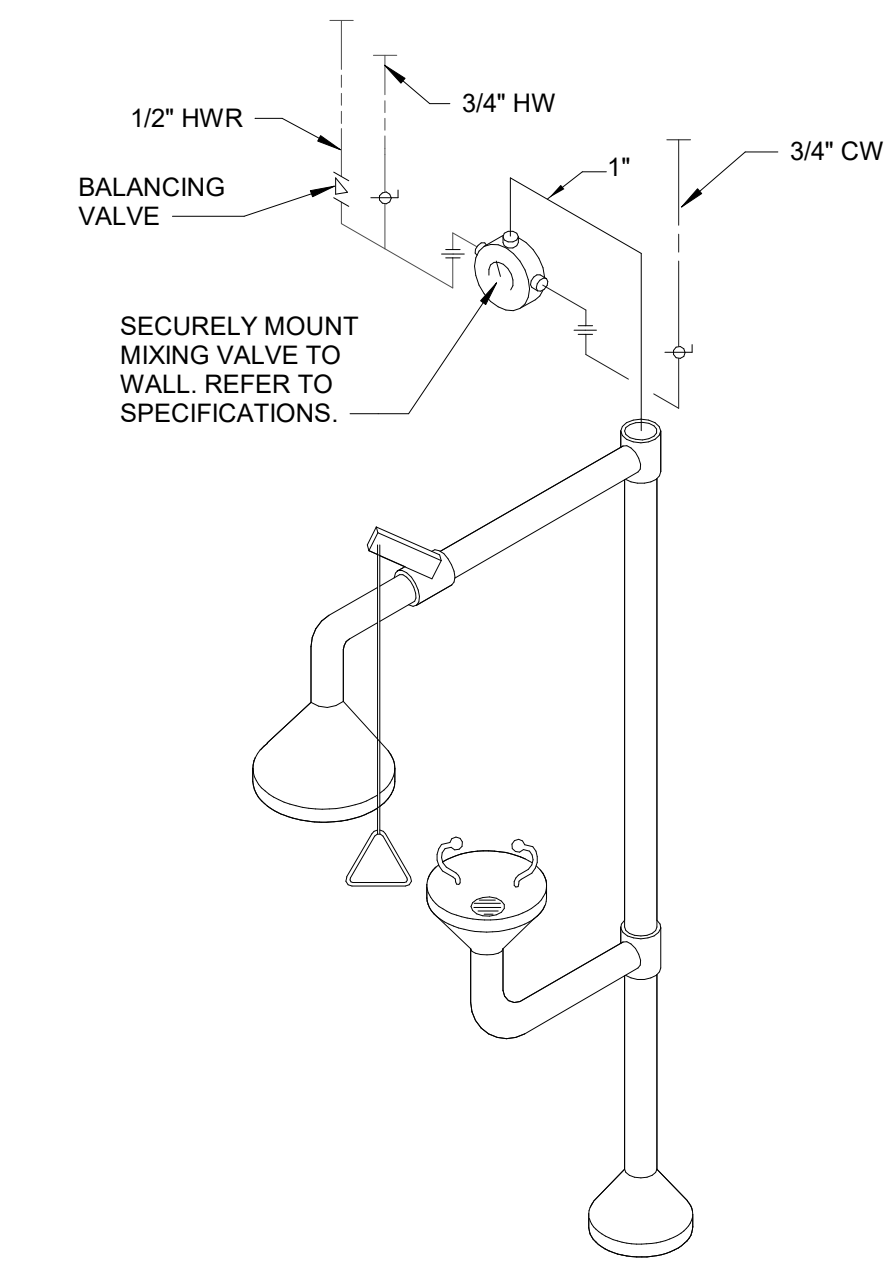
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14 OCT 24 ISSUED FOR PERMIT	LC	CK

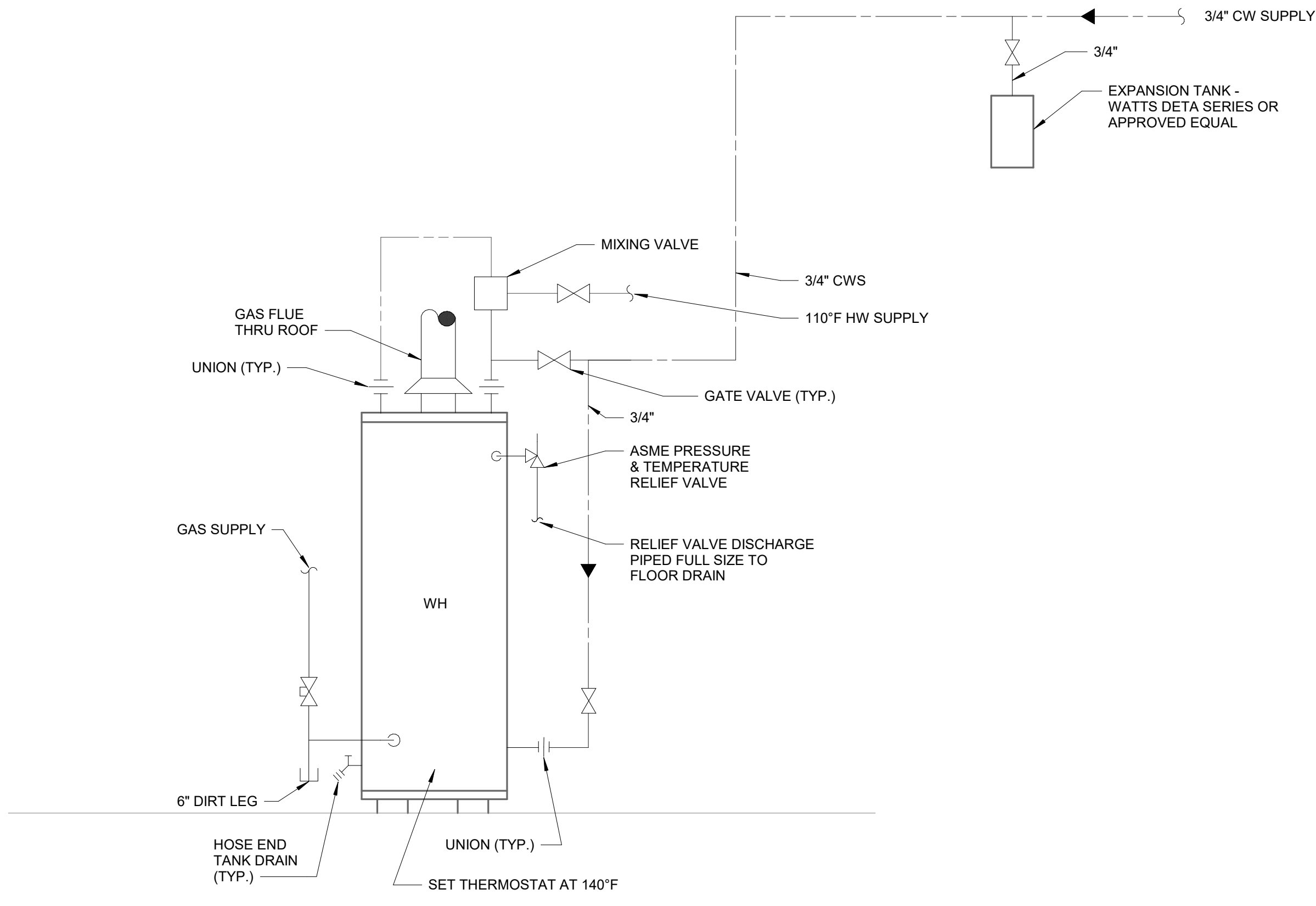
Revisions	

Date: 10/14/2024
Project No.: 2023362.00
Sheet Title: PLUMBING PLAN - H ROOM

Sheet No.:
P-102
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2 EYE WASH DETAIL



1 WATER HEATER DETAIL

PLUMBING FIXTURE SCHEDULE						
TAG	FIXTURE	CW	HW	SAN/ WASTE	VENT	REMARKS
P-1	EMERGENCY SHOWER/EYE WASH	1"	1"	--	--	
Bradley Model S19314SBFW. 3 1/10" diameter yellow impact-resistant plastic showerhead. Shower valve shall be chrome-plated brass 1" lps stay-open ball valve operated by a 37" pull rod with handle. Eye wash heads and chrome-plated circular spray ring for supplemental face spray. Eye wash valve shall be a chrome-plated 1/2" lps stay-open ball valve, hand operated by stainless steel push flag handle. Frame shall be 1 1/2" yellow galvanized steel pipe with floor flange. Emergency shower/eye wash shall be tested and comply with ANSI Z358.1. Provide with emergency thermostatic mixing valve meeting ASSE1071. Bradley Navigator S19-2150 EFX20 or equal. Mixing valve shall deliver tepid water to the emergency fixture.						

GAS WATER HEATER SCHEDULE									
I.D. TAG	TYPE OF WATER HEATER	TANK CAPACITY (GALLONS)	RECOVERY @ 100°F (GPH)	POWER INPUT (MBH)	MINIMUM EFFICIENCY	FUEL	VOLTS/ PHASE	BASIS OF DESIGN	REMARKS
WH-A	STORAGE	100	242	250	80%	NAT. GAS	120/1	AO SMITH BTR250(A)	1, 2

(1) PROVIDE EXPANSION TANK ON CW INLET; WATTS SERIES PLT OR EQUAL SIZED PER MANUFACTURER'S RECOMMENDATIONS.
(2) SEE DETAIL 1/P-001.

ABBREVIATIONS

A/C	ABOVE CEILING	HWRR	HOT WATER REVERSE RETURN
AAV	AIR ADMITTANCE VALVE	HWS	HOT WATER SUPPLY
AD	ACCESS DOOR		
ADJ	ADJUSTABLE	ID	INSIDE DIMENSION
AFF	ABOVE FINISHED FLOOR	IE	INVERTED ELEVATION
AUTO	AUTOMATIC	IN	INCHES
B/G	BELOW GRADE	KW	KILOWATTS
B/S	BELOW SLAB	LB	POUNDS
BAL	BALANCING	LP	LIQUID PROPANE GAS
BCO	BASE CLEANOUT	LWR	LOOP WATER RETURN
BHP	BRAKE HORSEPOWER	LWS	LOOP WATER SUPPLY
BOD	BASIS OF DESIGN		
CO	CLEANOUT	MAX	MAXIMUM
COND	CONDENSATE	MIN	MINIMUM
CW	COLD WATER (DOMESTIC)	MFR	MANUFACTURER
DN	DOWN	NC	NORMALLY CLOSED
DR	DRAIN	NFGH	NON-FREEZE GROUND HYDRANT
DWG	DRAWING	NFWH	NON-FREEZE WALL HYDRANT
EA	EACH	NG	NATURAL GAS
ECC	ECCENTRIC	NO	NORMALLY OPEN
EFF	EFFICIENCY	NOM	NOMINAL
EOD	EMERGENCY OVERFLOW DRAIN	OD	OUTSIDE DIMENSION
EWT	ENTERING WATER TEMP.	OD	OVERFLOW DRAIN
EX	EXISTING	PSI	POUNDS PER SQUARE INCH
F	FAHRENHEIT	RAD	RADIUS
FCO	FLOOR CLEANOUT	RED	REDUCER
FD	FLOOR DRAIN		
FLR	FLOOR	SAN	SANITARY
FOB	FLAT ON BOTTOM	SQ	SQUARE
FOT	FLAT ON TOP	ST	STORM
FPM	FEET PER MINUTE		
FPS	FEET PER SECOND	TEMP	TEMPERATURE
FT	FEET	TYP	TYPICAL
G	GATE	UCN	UNLESS OTHERWISE NOTED
GA	GAUGE		
GCO	GRADE CLEANOUT	V	VENT
GL	GLOBE	VA	VALVE
GPM	GALLONS PER MINUTE	VTR	VENT THRU ROOF
GW	GREASE WASTE		
HD	HUB DRAIN	WC	WATER COLUMN
HP	HORSEPOWER	WCO	WALL CLEANOUT
HW	HOT WATER (DOMESTIC)	WHA	WATER HAMMER ARRESTOR
HWR	HOT WATER RETURN	WT	WEIGHT
		W	WASTE

PLUMBING LEGEND

---	COLD WATER
---	HOT WATER
---	HOT WATER RECIRCULATION
---	SANITARY
---	GREASE
---	VENT
---	GAS
---	EXISTING (TYPE NOT SPECIFIED)
---	WORK TO BE REMOVED
---	CONNECT TO EXISTING
---	FLOOR DRAIN
---	FLOOR SINK
---	FLOOR CLEAN-OUT
---	WALL CLEAN-OUT
---	HOSE BIBS U.O.N.
---	SHUT-OFF VALVE
---	BACKFLOW/BACKWATER VALVE
---	MOTOR ACTUATED GATE VALVE
---	MOTOR ACTUATED 3-WAY VALVE
---	CIRCUIT SETTER
---	PRESSURE GAUGE
---	GAUGE COCK
---	KEYNOTE



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ROCKWALL, TEXAS 75032

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Revisions	

Date	Project No.
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Sheet Title	
PLUMBING LEGEND, ABBREVIATIONS, DETAILS, SCHEDULES	
Sheet No.	
P-001	
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- D. All potable domestic water connections to equipment shall be provided with backflow prevention as required by the specification section and code.
- E. Pressure gauges and thermometers called to be permanently installed shall be easily visible from a standing position on the ground.

3.02 UNDERGROUND WATER PIPING

- A. All copper water lines, or other material subject to corrosion, shall be protected from corrosion with a continuous plastic sheathing or coating and wrapping. This sheathing or coating and wrapping shall be extended 6" to 12" above finished floor. The protection shall be installed on the outside of any insulation required.

3.03 PIPING INSTALLATION ABOVE CEILINGS

- A. All domestic hot and cold-water piping installed above the insulated ceilings shall be installed just above (within 2") of the top of the finished ceiling with the building insulation ~~over~~ the piping to avoid freeze-up.

3.04 DISINFECTION

- A. All domestic water piping installed under this Division shall be disinfected with chlorine before it is placed into operation. The chlorinating material shall be liquid chlorine conforming to Federal Specification BB-C-120 and shall be introduced to the system by experienced operators only. The chlorine solution applied to the piping sections or system shall contain at least fifty parts per million of available chlorine and shall remain in the sections or system for a period of not less than sixteen (16) hours. During the disinfection period, all valves shall be opened and closed at least four times. After the disinfection period, the chlorinated water shall be flushed from the system with clear water until the residual chlorine content is not greater than two-tenths parts per million (0.2 PPM). Submit certification to the Architect that the system was disinfected.

END OF SECTION

SECTION 22 30 00

PLUMBING EQUIPMENT

1.0 GENERAL

1.01 DESCRIPTION

- A. All work specified in this Section is governed by the Common Work Results for Plumbing Section 22 05 00.
- B. This Section 22 30 00 and the accompanying drawings cover the provisions of all labor, equipment, appliances, and materials and performing all operations in connection with the construction of the water heating systems as specified herein and as shown. These systems include, but are not limited to, the following:
- Water Heaters

1.02 GENERAL REQUIREMENTS

- A. All plumbing equipment installed in locations with a water hardness of 25 grains per gallon or more, shall be resistant to corrosion. Where copper materials are in the water stream, it shall be Cupro-Nickel or not more than 90% copper.
- B. All water heaters shall be NSF/ANSI 61 certified "lead free" for potable water service.
- C. All water heaters shall have ASME rated temperature and pressure relief valve(s). Valve(s) shall be provided by the Manufacturer and sized for the discharge location noted in the plans.
- D. All water heaters and tanks shall be glass-lined, 1600°F fired, with a working pressure of 150 psi, a test pressure of 300 psi, or the system pressure at the installation location, whichever is greater, and shall have magnesium anodes for electrolytic protection. Separate storage tanks may also be cement-lined. Tanks shall be ASTM stamped.
- E. All water heaters shall meet or exceed the energy efficiency requirements of the latest version of ASHRAE 90.1.
- F. All water heaters and pumps shall be UL approved and labeled, and be AGA certified where applicable.
- G. All water heaters and pumps shall be NEMA rated appropriate for the installation location in which they are installed.
- H. Water heater controls shall include an operating thermostat and manual reset high limit control for each heating element or burner. The safety high limit control shall prevent over heating in the event of a thermostat failure.
- I. All controls shall be factory-wired and require no external power source.
- J. Water heaters and tanks shall have drain with external access and hose end connection.

2.0 PRODUCTS

2.01 WATER HEATER

- A. The water heater shall be as scheduled. Acceptable substitute manufacturers are AO Smith, Lochinvar, Raypak, Rheem, and Bradford White, subject to substitution requirements.
- B. Water heater shall be gas-fired with full modulation firing down to 20% of rated input with a turn down ratio of 8:1. The tank shall have two or more magnesium anodes to provide electrolytic protection.
- C. Controls shall include an operating thermostat, automatic reset high limit, secondary overheat control, and gas valve with 100% safety pilot feature.
- D. Water heater shall be provided with handhole cleanouts and slide-out burner tray for ease of inspection, cleaning and servicing.
- E. Where applicable, the water heater shall have a replaceable combustion air filter.

3.0 EXECUTION

3.01 INSTALLATION

- A. The water heaters and accessories shall be installed in strict accordance with the manufacturer's recommendations and the Contract Documents.
- B. All temperature and pressure relief valves shall be piped full size to an indirect waste such as the nearest floor drain, service sink, sink tailpiece, etc. Piping shall be in accordance with specification 22 10 00 for DWV services. Size shall be in accordance with manufacturer's requirements.
- C. All water heaters shall have internal heat traps or shall have heat traps installed in the cold water and hot water piping. Instantaneous water heaters shall be provided with heat traps unless manufacturer documentation specifically allows exclusion.
- D. Water heaters shall be completely encased in high density insulation of sufficient value to meet the energy efficiency standards of latest version of ASHRAE 90.1, or shall be factory insulated with non-CFC polyurethane closed-cell foam insulation. Provide removable insulation panels to maintain access to all required components.
- E. All water heaters or boilers subject to condensing under normal steady-state operating conditions shall be provided and installed with accessory condensate neutralization kits.

3.02 WARRANTY

- A. Provide 5-year limited warranty on all tanks, and 1-year limited warranty on parts unless otherwise noted.

END OF SECTION

SECTION 22 40 00

PLUMBING FIXTURES

1.0 GENERAL

1.01 DESCRIPTION

- A. All work specified in this section is governed by the Common Work Results for Plumbing Section 22 05 00.
- B. This Section 22 40 00 and the accompanying drawings cover the provisions of all labor, fixtures, equipment, appliances, and materials, and performing all operations in connection with the construction and installation of the plumbing fixtures and trim as specified herein and as shown.
- C. All finishes shall be as selected by the Architect. Where the Architect does not have a preference, finishes shall be in accordance with this specification.
- D. All exposed piping, valves, stops, P-traps, etc. shall be chrome-plated. Also, all exposed piping penetrations through walls, floors or ceilings shall be provided with chrome-plated cast brass escutcheons.

- E. All P-traps shall be minimum 17-gauge brass.

- F. All exposed P-traps subject to contact, such as those below wall-mounted or counter-mounted lavatories, shall be provided with insulated covers as required.

- G. All exposed supply stops for hot water, such as those below wall-mounted or counter-mounted lavatories, shall be provided with insulated covers as required. Where there are hot and cold water supply stops together, cold water supply stops shall match insulated cover of hot water supply stop.

- H. Provide all final connections to all equipment and fixtures furnished by Owner.

- I. Unless otherwise specified in an individual fixture description, all enameled cast-iron and porcelain fixtures shall be white.

- J. All lavatories and other hand-washing fixtures shall be provided and installed with ASSE 1070 point-of-use mixing valve on the hot water connection. Mixing valve shall be set to provide no more than 110°F hot water.

1.02 INTENT

- A. It is the intent of this Section of the specifications to provide complete, operable, adjusted, clean plumbing fixtures as shown and specified, which are free of leaks, noise, air, vibration and waterflow fluctuations.

1.03 BASIS OF DESIGN

- A. The basis of design is as outlined for each fixture in the 2.0 PRODUCTS subsection. Any proposed substitutions shall be proven equal in all respects to the equipment specified as the basis of design.

1.04 ACCEPTABLE MANUFACTURERS

- A. Acceptable fixture manufacturer for each type of fixture is as follows:
- Emergency Shower and Eyewash – Acorn, Bradley, and Guardian

2.0 PRODUCTS

2.01 EMERGENCY SHOWER/EYE WASH

- A. Fixture ~~P-1~~ shall be a barrier free combination drench shower and eye/face wash unit, Bradley Model S19-310SBFW. Showerhead shall be 3" diameter yellow impact-resistant plastic. Shower valve shall be chrome-plated brass 1" ips stay-open ball valve operated by a 37" pull rod with handle. Eye wash heads and chrome-plated circular spray ring for supplemental face spray. Eye wash valve shall be a chrome-plated 1/2" ips stay-open ball valve, hand operated by stainless steel push flag handle. Frame shall be 1 1/4" yellow galvanized steel pipe with floor flange. Emergency shower/eye wash shall be tested and comply with ANSI Z358.1.

2.02 All fixtures shall be as scheduled.

3.0 EXECUTION

3.01 INSTALLATION

- A. Units shall be installed as indicated and in conformance with the manufacturer's recommendations. Coordinate the actual units to be provided with all trades.
- B. All plumbing fixtures shall be free of leaks, provided completely finished, trimmed, adjusted, cleaned and ready for use. They shall be properly secured to the structure by the use of thru-bolting, backplates, carriers, expansion shields (for floor mounting only) or toggle bolts.
- C. Fixtures on steel stud walls shall have a 1/4" x 4" wide steel backplate wired with 1/16" steel wire to the studs. Bolts not less than 3/8" shall secure the fixtures through the fixture hanger and the backplate.
- D. All mounting holes provided in fixtures shall be used for support. In addition to the main hangers, 1/4" toggle bolts shall secure the bottom of all wall hung fixtures at each drilling provided for this purpose.
- E. Mount wall-hung fixtures at the heights indicated on the Architectural Drawings or as prescribed by local code. Special attention is called to the installation requirements of the ANSI Handicap Code.

3.02 CLEANING AND ADJUSTMENT

- A. The units shall be cleaned, tested and field-adjusted to provide optimum flow and drainage. Specific attention is called to adjustment of automatic flush valves and faucets for empirical conditions.
- B. All flush valves, diaphragms, strainers, aerators, etc. shall be fully cleaned after all piping and fixture flushing.

END OF SECTION



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Date Signed: 10/14/2024

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at
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ROCKWALL,
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for



2065 KRISTY LN
ROCKWALL, TEXAS 75032

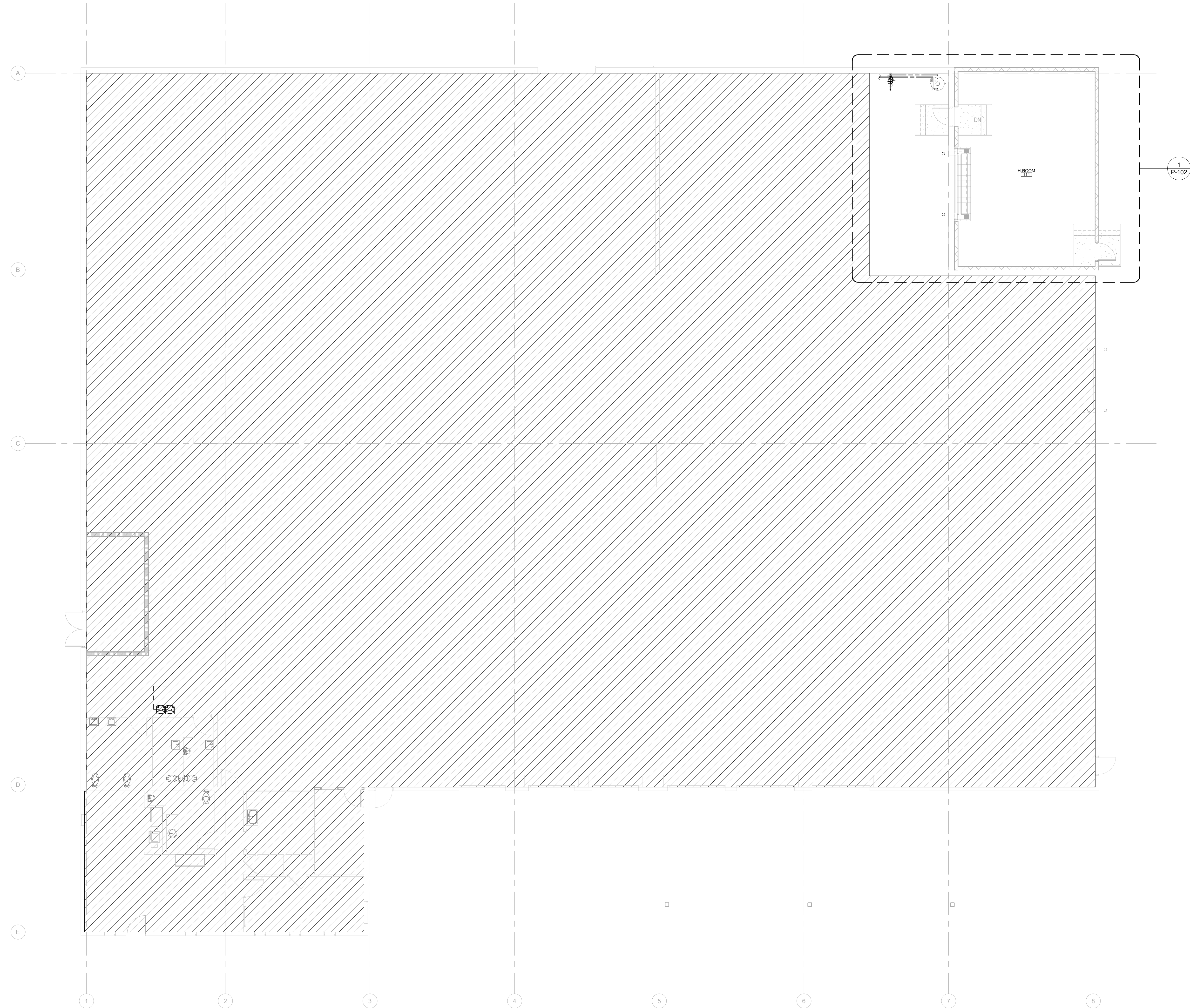
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14 OCT 24	ISSUED FOR PERMIT	LC OK

Revisions	

Date: 10/14/2024 Project No. 2023362.00
Sheet Title: PLUMBING SPECIFICATIONS

Sheet No. **P-003**
☒ Released for Construction
☐ Not Released for Construction

BW & A Barrett, Woodyard
1255 Crescent Green
Ste. 230 | Cary, NC 27518
Phone: 919-747-9884
BWA COAF 13267
BWA Project #: 2024-1025
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1 Plumbing Plan - Overall
1/8" = 1'-0"

BW & A Barrett, Woodyard
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Print Record	Dwn.	Chk.
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Revisions	

Date	Project No.
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Sheet Title	PLUMBING PLAN - OVERALL

Sheet No.
P-101
Released for Construction
Not Released for Construction

FIRE DETECTION AND ALARM

SECTION 283100 – FIRE DETECTION AND ALARM

PART 1 – GENERAL

1.1 DESCRIPTION

- A. This section of the specification includes the, installation, connection and testing of the microprocessor controlled, intelligent reporting fire alarm equipment required to form a complete, operative, and coordinated system.
- B. The fire alarm system shall comply with requirements of the NFPA Standard 72 for Protected Premises Signaling Systems and all local codes and regulations. The system shall be electrically supervised and monitor the integrity of all conductors.
- C. Alarm, trouble and supervisory signals from all intelligent reporting devices shall be encoded onto the Signaling Line Circuits.
- D. The system shall be an active/interrogative type system where each transponder is repetitively scanned, causing a signal to be transmitted to the local fire alarm control panel/node indicating that the transponder and its associated initiating device and notification appliance circuit wiring is functional. Loss of this signal at the local FACP shall result in a trouble indication on both the FACP display and at the network display, as specified hereinafter for the particular unit.
- E. The system shall be arranged such that not less than 20 percent additional transponders may be inserted into any network communication loop.
- F. The installing company shall employ NICEET (minimum Level II Fire Alarm Technology) technicians on site. To guide the final checkout and to ensure the systems integrity, the submitting company shall employ NICEET Level IV minimum managers and engineers. Proof of NICEET level certifications shall be included as part of submittal package and kept on site with personnel.
- G. The Contractor shall make arrangements and pay all fees in connection with the testing of the Life Safety System. All system devices shall be tested for their correct operation, except non-restorable type heat detectors which shall be sample tested. All tests carried out shall meet the requirements of the local authority having jurisdiction.

1.2 SCOPE

- A. A new intelligent reporting, microprocessor controlled fire detection system shall be installed in accordance to the project specifications and drawings.
- B. Basic Performance
- Each SLC loop shall be wired NFPA 72 Class B, Style 4.
 - Initiation Device Circuits (IDC) shall be wired (NFPA Class B, Style B) as part of an addressable device connected by the SLC circuit.
 - Notification Appliance Circuits (NAC) shall be wired (NFPA Class B, Style Y) as part of an addressable device connected by the SLC circuit or a panel circuit.
 - NAC speaker circuits and control equipment shall be arranged such that loss of any one (1) speaker circuit will not cause the loss of any other speaker circuit in the system.
 - Two-way telephone communication circuits shall be supervised for open and short circuit conditions. Phone circuits shall be wire (NFPA Style Y) and wired so that each vertical riser is a single circuit.
- C. Basic System Functional Operation
- As part of the fire alarm and voice communication system; when a fire alarm condition is detected and reported by one of the system initiating devices (except the smoke detectors located in air supply path of the stairwell and/or elevator shaft pressurization fans), the following functions shall immediately occur:
 - FACP will sound and display the alarm condition showing the device address, location, zone information, time/date, and device type.
 - The remote annunciator will sound and display the same information as shown on the FACP display unit.
 - The speaker outputs for the floor of the alarm shall be activated for alarm evacuation message until silenced. All speakers shall sound the fire alerting tone followed by an evacuation message. When the message ends, the alerting tone shall resume. Other sequences for alarm evacuation messaging may be directed by drawings.
 - All strobes with activated speaker outputs shall flash in a synchronized pattern.
 - Operation of the fire alarm microphone must immediately override either the message or the fire alerting tone without moving any switches except the one on the microphone. The voice communication system shall also function as a public address communication system and shall operate on a selective and general basis from the Fire Alarm Control Panel.
 - Release all magnetically held smoke doors.
 - Provide signals to the mechanical controls including smoke dampers to shut down or reroute air-handling systems to prevent the recirculation of smoke and to start the stair and elevator shaft pressurization fans.
 - Activate signals to the stairwell electric door locks as applicable.
 - Provide a DACT (Digital Alarm Communicator Transmitter) and a signal via DACT for connection to a central station or local municipal fire department (connection and leased line, if required, shall be provided by building owner).
 - Initiate a preprogrammed timing sequence.
 - Additionally, activation of any smoke detector located in the air handling units and/or equipment rooms shall activate signals to the mechanical controls indicating the floor of occurrence.
 - The fire alerting tone shall be a low to high "slow whoop" from 200 Hz to 830 Hz lasting 2.5 seconds. Operation of the hand held microphone button shall override the alarm tone.
 - It shall be possible to silence the alarm signals by operating the signal silence switch. However, the activation of another zone shall repeat the entire alarm process, thus causing the signals to resound.
 - Each speaker circuit will have a manual selector switch. Operation of this switch will activate the speakers and fire lights associated with that circuit.
 - Silencing the alarm shall cause all speakers to silence. Firelights will continue to flash.
 - Fire pump normal power availability, fire pump phase reversal and fire pump run status shall be monitored. Loss of normal power, phase reversal shall annunciate as supervisory alarms and pump running shall annunciate as an alarm.
 - Fire Department Communication System
 - Provide a two-way Voice Communication system between the Central Control, Emergency Phones and Emergency Phone Jacks. All wires between the Central Control and remote units shall be continuously supervised. Any fault which occurs shall be reported visually and audibly at the Central Control.
 - Removal of any phone from its normal hook position or the act of plugging a portable phone into a system jack shall cause its indicator LED to flash and an audible device to beep at the Central Control. Picking up the master phone and operation of the switch for the activated circuit

- shall silence the beeping signal, cause the LED for the active circuit to remain on steady and, connect the remote phone to the Central Control's master phone to provide direct and private communication between the remote phone and the master phone.
- C. The fire department communication system shall be capable of handling single or simultaneous conversations with maximum of 10 phones connected into the system. The phone system circuits shall be so designed to prevent static, hum or other interference to the prior, intelligible two-way conversation between maximum of 10 phones of the system.
- d. The system shall indicate to the person attempting to use a remote phone, by a beeping busy signal, that the signal is being received at the Central Control and that the lines are intact. Two or more phones shall be capable of being connected into the active conversation at the discretion of the person at the Central Control.
- e. At the discretion of the person at the Central Control, any remote phone shall be capable of broadcasting over any selected speaker circuits.
- f. Replacement of all remote telephones or removal from their jacks and returning the related circuit acknowledge switch to normal shall restore the circuits to their normal supervised condition.
3. General Operation
- Power failures, opens, grounds or any disarrangement of the system wiring or components shall be indicated by a visual and audible trouble signal. The audible trouble signal may be silenced, however, the trouble LED shall remain lit until the system has been returned to normal operating condition.
 - All manual controls shall be supervised so that all switches must be returned to the normal automatic position to clear system supervisory signal.
 - Each independently supervised circuit shall include discrete amber "Trouble" LED to indicate disarrangement conditions per circuit.
 - Supervise the incoming power to the system so that any power failure shall be audibly and visually indicated at both the control panel and the graphic annunciator.
 - Provide low/high air supervisory signal for dry automatic sprinkler system.
 - Provide running, power fault, and phase reversal trouble signals for fire pump.
 - Provide running and power fault trouble signals for the generator.
 - Provide signal circuit and auxiliary function disconnect capability by disconnect switch or keypud to facilitate testing without disruption.

1.3 SUBMITTALS

A. General

- Copies of all submittals shall be submitted to the Architect/Engineer for review prior to acceptance of system.
 - All references to manufacturer's model numbers and other pertinent information herein is intended to establish minimum standards of performance, function and quality.
 - The authority having jurisdiction shall be notified prior to installation of equipment and wiring. Complete information regarding the system including specifications, wiring diagrams, battery and power supply calculations, floor plans and graphics shall be submitted for approval.
 - If submittals, upon review by the Owner and/or the Owners Representative, are found not to conform with the performance, type and quality of products as well as all other requirements of these specifications; the Contractor shall be required to resubmit. The Contractor shall be responsible for the Owner's extra expenses for subsequent review(s) of rejected submittals. Such extra fees shall be deducted from payments by the Owner to the Contractor. Approval of the submittals by the Owner shall, in no case, relieve the Contractor of the responsibility to meet the requirements of these specifications.
- B. Shop Drawings
- Drawings shall include the following minimum requirements for submittal:
 - Point-to-point wiring/conduit layout for all devices on 1/8" scale.
 - Device placement showing all addresses and device ID.
 - All panel and equipment terminations.
 - All circuit voltage drop and current calculations spread sheets.
 - All battery calculation spreadsheets.
 - Legend reflecting device description, manufacturer, model number, and back-box requirement.
 - Wiring legend reflecting wire function, type, and recommended manufacturer's part number.
 - Full sequence of operations.
 - Power supply and amplifier calculations.
 - Specification data sheets on each individual system component.
 - Data Sheets
 - Submit simultaneously with the shop drawings, complete manufacturer's technical data sheets showing product description, listings, and specs.
 - Copies of NICEET II and IV certifications.
 - Copy of company UL listing certificate.

1.4 APPLICABLE STANDARDS AND SPECIFICATIONS:

- A. The specifications and standards listed below form a part of this specification. The system shall comply with the latest standards.
- National Fire Protection Association (NFPA), USA:
 - NFPA 13 Sprinkler Systems
 - NFPA 17A Wet Chemical Extinguishing Systems
 - NFPA 70 National Electrical Code
 - NFPA 72 National Fire Alarm Code
 - NFPA 101 Life Safety Code
 - 2. North Carolina State Building Code
 - 3. American National Standard A17.1-1980
 - 4. Underwriter's Laboratories Fire Resistance Directory
 - 5. Local and State Building Codes
 - 6. ADA Public Law 101-336
 - 7. All requirements of the Authority Having Jurisdiction (AHJ)

1.5 APPROVALS

- A. The system shall have proper listing, approval and labeling from the following nationally recognized agencies:
- FM Factory Mutual Systems
 - UL Underwriters Laboratories

1.6 SYSTEM FEATURES

- A. The system shall include the following features as a minimum:
- During on alarm condition, the LCD annunciator shall display the activated alarm until acknowledged. This shall allow determination of where the last alarm has taken place.
 - Ground fault detection in wiring on either plus or minus side.
 - Separate alarm and trouble shall be displayed on the LCD annunciator.
 - Resound feature
 - "Dead Front" design control panel with all LED alarm trouble and power on indicators and all switches located behind a locked tempered glass door.
 - Solid state construction.
 - All alarm initiating circuit wiring, signal circuit wiring,

- speaker circuit wiring and emergency phone circuit wiring shall be supervised.
- Automatic transfer to standby generator upon power failure.
 - Lightning and surge protection.

PART 2 – PRODUCTS

2.1 MANUFACTURER

- A. The FACP and peripheral devices shall be manufactured by:
- Simplex
 - Notifier
 - Edwards
 - Siemens
- B. Equipment manufacturer shall maintain factory trained personnel within 50 miles of the project site and shall be available 24-hours per day.
- C. Material and equipment shall be new and UL listed.

2.2 CONDUIT AND WIRE

- A. Conduit shall be installed as required by specification Sections 280519 and 280534.
- B. Wiring shall be in accordance with local, state and National codes (e.g., NEC Article 760) and as recommended by the manufacturer of the fire alarm system.
- C. NAC circuits shall be protected from the point at which they exit the control unit until they enter the notification zone they serve. Protection shall be via Type Pyrotenex 2-hour fire cable installed in minimum ¾" EMT conduit.
- D. All fire alarm wiring shall be installed in "ET" EMT conduit within walls, ceilings and where exposed to physical damage. Open cabling may be utilized in accessible ceiling areas where allowed by the authority having jurisdiction. Fire alarm cabling installed in plenum areas shall be plenum rated.
- E. All wire and cable shall be listed and/or approved by a recognized testing agency for use with a protective signaling system. No point wires or diode code matrix will be used for annunciation.
- F. The fire alarm control panel shall be connected to a separate dedicated branch circuit, maximum 20 amperes from the generator power source. Provide locking circuit breaker.
- G. Conduit and wire installations shall meet the survivability requirements of NFPA 72.
- H. All conduit and junction boxes utilized for fire alarm cabling shall be painted red.

2.3 MAIN FIRE ALARM CONTROL PANEL

- A. The FACP shall be completely microprocessor based.
- B. System Capacity and General Operation:
- Configure size of panel to operate number of SLC circuits in a fashion so that each circuit handles no greater than 70% load of capacity or a maximum of 5 floors per circuit.
 - The fire alarm control panel shall include a fully-featured operator interface and backlit 80-character Liquid Crystal Display (LCD).
 - The system shall be fully field programmable from the display panel. Personnel requiring the use of external keyboards for programming and changes are not acceptable.
 - The FACP shall provide the minimum following features:
 - Drift compensation to extend detector accuracy over life.
 - Detector sensitivity test, per NFPA 72, Chapter 7.
 - Maintenance alert, to warn of excessive smoke detector dirt or dust accumulation.
 - Multiple sensitivity levels for alarm, selected by detector.
 - System status reports to display and printer.
 - Provide printer.
 - Alarm verification, with verification counters.
 - Cross zoning with the capability of counting two detectors in alarm.
 - Walk test.
 - UL-1076 security monitor points.
 - Control-by-time with holiday schedules.
 - Day/night automatic adjustment of detector sensitivity.
 - Device blink control for sleeping areas.
 - Releasing capability.
 - Pre-Alarm.
 - Selectable sensitivity levels, three minimum.
 - History Storage, with a minimum of 400 events.
 - Point Enable/Disable.
 - Port Read (status and level of obscuration).
 - Output point for connection to any building EMS.
 - Generator monitoring functions to include generator running, generator fault and generator switch not on automatic.
 - Disconnect switches to disable notification, audible appliances, visual strobes, and auxiliary function points for testing purposes.
 - Alarm sensitivity testing at the FACP.
 - Provide all zones or alphanumeric point of address designations in property owner's terminology.

C. Signaling Line Circuits (SLC)

- Each SLC interface shall provide power to communicate with 99 intelligent detectors (ionization, photoelectric or thermal) and 99 intelligent monitors (monitor or control).
- Each SLC circuit shall not exceed 70% load capacity or cover more than 5 floors.
- Serial Interface
 - The system shall include two serial EA-232 interfaces. Each interface shall be a means of connecting UL Listed Electronic Data Processing (EDP) peripherals.
 - a. One serial port shall support a serial printer.
 - b. One serial port shall support a CRT/NT device.
 - c. The system shall include an EA-485 port for the serial connection of annunciators and remote LCD displays.
- Voice Telephone Command Center (VTCC)
 - The Voice Telephone Command Center (VTCC) shall contain equipment required for all audio control, telephone system control, signaling and supervisory functions. This shall include:
 - a. Tone generators.
 - b. Digital voice units.
 - c. Microphone for manual paging/all call.
 - d. Main telephone handset.
 - e. Speaker/phone circuit annunciation and control modules for manual activation of each individual speaker circuit and each individual microphone/annunciator circuit.
 - f. Integral Digital Message Generator with a capacity of up to 60 seconds. The Digital Message Generator shall be capable of primary and secondary messages (30 seconds each). These messages shall be field programmable without the use of additional equipment.
 - g. Built in alert tone generators with steady, slow whoop, high/low and chime tone field programmable.
 - h. Provide list of evacuation pre-recorded messages and pre-alert tones to owner before ordering for selection.
 - i. The Voice Control Panel shall have the ability to transmit up to 4 simultaneous evacuation message channels.

- The one-way voice communications system shall be comprised of a local microphone, single channel audio controller/tone generator/digital message player and, if shown on the plans up to eight (8) remote microphone/annunciator panels.
- Provide individual selector switches and indicator lights for each speaker circuit at the fire command center and at each remote microphone/annunciator.
- Provide amplifiers. Size the amplifiers to accommodate each speaker being set at a one-watt tap with twenty watts reserve per floor.
- The two-way telephone system shall be comprised of a master telephone at the main fire alarm panel and remote master telephone as shown on the plans.
- Provide switch and LED modules for control of individual telephone circuits at the main fire alarm control panel and at any remote locations.
- Field Charging Power Supply (FCPS): The FCPS is a device designed for use as either a remote 24-volt power supply or used to power Notification Appliances.
 - The FCPS shall offer up to 6.0 amps (4.0 amps continuous) of regulated 24-volt power. It shall include an integral charger designed to charge 7.0 amp hour batteries. Provide batteries to support 60-hour standby with ten minutes of alarm indication at the end of this period. Battery charger shall be capable of recharging all batteries to seventy percent capacity in twelve hours.
 - The Field Charging Power Supply shall have four outputs (two Style 1/2 and two Style Y) shall be available for connection to the Notification devices.
 - Provide 20-watt spare capacity in each electrical room on each floor for tenant audible circuits. Locate in a junction box clearly labeled "tenant fire alarm audible circuits".
 - Provide two (2) each Field Charging Power Supply (DC) per floor to allow for tenant built-out expansion of NAC devices. At no time shall there exceed 70% load capacity of any FCPS on any of the common levels. Provide power capacity as follows:

Floor	Size	Capacity
<25,001 gross sq. ft.	6 amps DC	
25,001 to 35,000 gross sq. ft.	10 amps DC	
35,001 gross sq. ft. and greater	consult manufacturer	
 - Locate audible (where required) and visual power supplies adjacent to one another and in a location within each room approved by the engineer.
 - Provide battery capacity and amplifier capacity in the main fire control panel for addition of tenant devices described above.

G. Audio Amplifiers

- The audio amplifiers will provide audio power (Ø 25 Volts RMS) for distribution to the speaker circuits.
- The amplifier shall include audio input and amplified output supervision; back up input, and automatic switchover to back up (if primary amplifier should fail).
- Amplifiers shall be available in 30, 100, and 120-watt versions.
- Provide amplifiers sized to accommodate each speaker being set at a one-watt tap with twenty watts reserve per floor.
- Hardwired indicating appliance circuits (fire lights and speakers) shall be Style Y per NFPA 72. Provide one light circuit per floor and provide one speaker circuit per floor, one speaker circuit per stairwell, and one speaker circuit per elevator cab.
- Hardwired telephone circuits shall be Style Y per NFPA 72. Provide one fire fighters telephone circuit per elevator, one per elevator lobby, one per stairwell and one for the fire pump room.
- Provide at least two on board relays to operate door holders etc.
- Provide necessary modules to operate remote supervised relays for fan control, elevator control, etc.

2.4 SYSTEM COMPONENTS

A. Speakers

- Audible and visual devices shall be located to comply with the American Disabilities Act. The minimum audible level of an alarm signal shall be 70 db. When required due to high noise levels, the alarm shall achieve a db level of 15 above the ambient conditions of normal use or occupancy.
- All speakers shall operate on 25 VRMS or with field selectable output taps from 0.25 to 2.0 Watts.
- Speakers in corridors and public spaces shall produce a nominal sound output of 84 dBA at 10 feet (3m) when set at one watt as measured per UL Standard 1480.
- Frequency response shall be a minimum of 400 HZ to 4000 HZ.
- The back of each speaker shall be sealed to protect the speaker cone from damage and dust.
- Speakers shall be bone white in color.
- Provide a unit cost to add two speakers per 25,000 sq.ft. This unit cost shall be applied to additional speakers that may be required at the request of the fire marshal during field inspections.

B. Strobe Lights

- All Strobe Lights shall meet the requirements of the ADA, UL Standard 1971.
- Strobe intensity and flash rate shall meet the requirements of UL 1971, ADA and NFPA 72.
- Strobe unit shall mount to a four inch square electrical outlet box. The strobe light shall have a white lens with red "FIRE" imprinted on it. When the unit is combination speaker/strobe, the speaker portion shall comply with the requirements stated in A. above.
- All strobes shall have selectable output intensities from 15 to 110 cd. The intensity selected shall meet NFPA 72 requirements for the layout shown on the drawings.
- Strobe spacing shall be as follows:
 - a. Strobes shall be spaced a maximum of 100'-0" apart in corridors and within 15'-0" of the end of every corridor to comply with the requirements of NFPA 72.
 - b. Strobes in open areas shall be provided to comply with NFPA 72.
 - c. Provide strobes in public spaces such as restrooms, kitchens, breakrooms, cafeterias, conference rooms, training rooms and any other space where six or more people are likely to gather.
- Provide a unit cost to add five strobes including required signal circuits per 25,000 sq.ft. This unit cost shall be applied to additional strobes that may be required at the request of the fire marshal during field inspections.

C. Manual Fire Alarm Pull Stations

- Manual fire alarm pull stations shall be dual-action, non-coded, non-break glass type, equipped with key lock so that they may be tested without operating the handle.
- Pull stations must be designed such that after an actual activation, they cannot be restored to normal except by key reset. Units shall be master keyed with control equipment.
- An operated pull station shall automatically condition itself so as to be visually detected, as operated, at a minimum distance of 100 feet (30.5 m) front or side. This shall be achieved with the pull lever remaining at a right angle to the station body until reset.
- The pull station body shall be constructed so that chips and scratches will not expose metal.
- Manual fire alarm pull stations shall be located as required by NFPA 101 and the Building Code. Manual pull stations shall be installed at all exit doors and outside of each stairwell door on each floor.

D. Duct Smoke Detectors

- Duct smoke detectors shall be addressable type with visual alarm and power indicators. Provide remote

- LED/test stations where duct detectors are mounted in non-visible areas such as above ceiling.
- Each detector shall be installed upon the composite supply/return air duct(s) in a proper size and/or sampling tubes where required. Provide smoke detectors in each return air path of any mechanical equipment that moves air in excess of 2000 CFM to meet the requirements of NFPA 72 and 90A. Provide smoke detectors in each supply and return air path of any mechanical equipment that moves air in excess of 15,000 CFM to meet the requirements of NFPA 72 and 90A. Confirm quantities of smoke detectors required for mechanical equipment with Division 23. Room detectors may be used to accomplish smoke detection in the supply/return air paths if the application permits.
 - Each duct detector shall be installed along with addressable control module as needed for fan shutdown and/or smoke control. Detectors zoned with other devices shall be capable of operating its control module even if all other devices on their circuit have gone into alarm.
 - Duct detectors shall be installed by the mechanical contractor and electrically connected to the fire alarm system by the electrical contractor.

E. Smoke Dampers

- Smoke dampers shall be provided by Division 23.
- Provide a smoke detector at each smoke damper location to meet the requirements of NFPA 72. Confirm quantities of smoke detectors required for smoke dampers with Division 23. Provide 120 volt power as required for operation of smoke dampers.
- Carbon Monoxide Detectors
 - Provide carbon monoxide detectors in mechanical rooms containing gas fired water heaters and in residential units, public spaces, and any location with gas fired fireplaces or other gas appliances. Connect the FACP detectors provide supervisory alarm at Fire Alarm Control Panel (FACP).
 - Provide carbon monoxide detectors in parking garage. Provide signal to actuate garage exhaust fans.

G. LCD Alphanumeric Display Remote Annunciator

- The alphanumeric display annunciator shall be a supervised, backlit LCD display containing a minimum of eighty (80) characters for alarm annunciation in clear English text. Annunciator shall be located as shown on the drawings or at the location selected by the local fire department.
- The LCD annunciator shall display all alarm, supervisory, and trouble conditions from the FACP via the serial card.

H. Portable Emergency Telephone Handset Jack (FHJ)

- Portable emergency telephone handset jacks shall be flush mounted on stainless steel plates stamped and engraved in red identifying them as "Fire Emergency Phone" jacks.
- Provide a minimum one (1) per enclosed exit stairwell per floor and elevator lobby on each level and other locations as specified by code. Locate a permanent phone one in main sprinkler control room/fire pump room.
- Insertion of a portable handset plug into a jack shall send a signal to the fire command center (VTCC), which shall audibly and visually indicate the alarm condition, and shall sound a "ring" indication in the handset.
- The two-way emergency telephone system shall support a minimum of ten (10) handsets on line without degradation of the signal.
- Furnish storage cabinet with minimum six (6) ea. handsets near VTCC panel.

I. Portable Handsets

- Provide six (6) portable, pluggable phones. This phone shall be red in color and constructed of Gycotat type I (a thermal ABS material). A complete assembly shall include a five foot coiled line cord and jack.
- These phones shall be stored in a red metal cabinet located at the fire command center.
- Telephone Cabinet: Furnish Emergency Phone enclosure with hardwired handset on the lowest floor and every fifth floor above the lowest floor in each locked stairwell. A call shall be annunciated at an approved emergency service which operates continuously by lifting handset from cradle. This emergency telephone cabinet shall be red in color with the words "Local Emergency Phone" silk screened in white on the door. Pulling the door handle shall break a plastic rod allowing the door to open. A lock shall be provided to allow authorized service entry without breaking the rod. The emergency telephone shall be black in color and shall have an armored cable.

2.5 SYSTEM COMPONENTS – ADDRESSABLE DEVICES

A. Addressable Devices – General

- Detectors shall be intelligent (analog) and addressable, and shall connect with two wires to the fire alarm control panel signaling line circuits.
- Addressable photoelectric smoke and thermal detectors shall provide alarm and power/polling LEDs. LED(s) shall flash under normal conditions and LED(s) shall be placed into steady illumination by the control panel, indicating an alarm condition.
- The fire alarm control panel shall permit detector sensitivity adjustment through field programming of the system.
- Detectors will operate in an analog fashion, where the detector simply measures its designed environment variable and transmits an analog value to the FACP based on real-time measured values. The FACP software, not the detector, shall make the alarm/nominal decision, thereby allowing the sensitivity of each detector to be set in the FACP program and allowing the system operator to view the current analog value of each detector.
- All field wiring is to be terminated on the detector base, not on the sensor head. Addressing of detectors shall be via integral decade switches built into sensor. Devices requiring separate addressing means will not be accepted.
- Any additional equipment required to program devices are not acceptable.

B. Intelligent Photoelectric Smoke Detector

- The detectors shall use the photoelectric (light-scattering) principal to measure smoke density and shall, on command from the control panel, send data to the panel representing the analog level of smoke density.
- Provide photoelectric smoke detector heads with bases as required. Detectors shall be of the solid state photoelectric type utilizing a laser diode as the light source and a silicon photo diode as the receiving element to form a highly accurate means of smoke detection. Internal detector circuits shall be shielded against electrical interference and resistant to transients, noise and RF interference. Detector shall be low profile, the complete unit including base shall not exceed 1.875 inches in depth. Detector shall have a dual purpose red LED that flashes continuously to show that the device is operating and, that comes on steady to show that the device is in alarm.
- Nominal detector sensitivity shall be 1.4% per foot obscuration with a range of 1% to 1.84%. Regardless of sensitivity settings, the detector's stability shall be unaffected by high air velocity. No radioactive materials shall be used.

C. Linear Beam Smoke Detector

- Each beam shall be comprised of a solid state infrared (IR) transmitter, photodiode receiver and microprocessor

- based control module. Should IR output be attenuated below the desired alarm obscuration level as a result of smoke interference an alarm will be annunciated. Total obscuration of the beam IR is annunciated as a beam blockage trouble signal. All wiring from the control module to the transmitter and receiver heads is supervised.
- The projected beam smoke detector system shall have an operating range of 10 meter (33 ft.) to 100 meter (330 ft.) and be listed for spacing the beam 30 ft. from a wall and 60 ft. on ceiling. The transmitter and receiver optical elements shall be adjustable +/- 90 degrees horizontally and +/- 30 degrees vertically. The sensitivity shall be field selectable from 7% to 50% obscuration.

D. Intelligent Thermal Detectors

- Thermal detectors shall be intelligent addressable devices rated at 135 degrees Fahrenheit (58 degrees Celsius) and have a rate-of-rise element rated at 15 degrees F (9.4 degrees C) per minute. It shall connect via two wires to the fire alarm control panel signaling line circuit.
- Addressable Dry Contact Monitor Module
 - Addressable monitor modules shall be provided to connect one supervised IDC zone of conventional alarm initiating devices (any N.O., dry contact device such as flow, tamper, release systems, etc.) to one of the fire alarm control panel SLCs.
 - The IDC zone shall be suitable for Style D or Style B operation. An LED shall be provided that shall flash under normal conditions, indicating that the monitor module is operational and in regular communication with the control panel.
 - For difficult to reach areas, the monitor module shall be available in a miniature package and shall be no larger than 2-3/4 inch (70 mm) x 1-1/4 inch (31.7 mm) x 1/2 inch (12.7 mm). This version need not include Style D or an LED.
 - Monitor module shall be provided for all sprinkler flow and tamper switches. Switches are furnished and installed by others and electrically connected to the fire alarm system by the electrical contractor. Verify quantities and coordinate installation of devices required with fire protection shop drawings. Provide connections to devices per fire protection shop drawings.

F. Addressable Control Module

- Addressable control modules shall be provided to supervise and control the operation of one conventional NACs of compatible, 24 VDC powered, polarized audio/visual notification appliances. For fan shutdown and other auxiliary control functions, the control module may be set to operate as a dry contact relay. Each relay shall have a red LED mounted on its cover to indicate if that relay has been activated.
- The control module NAC may be wired for Style Z or Style Y (Class A/B) with up to 1 amp of inductive A/V signal, or 2 amps of resistive A/V signal operation, or as a dry contact (Form-C) relay. The relay coil shall be magnetically latched to reduce wiring connection requirements, and to insure that 100% of all auxiliary alarm NACs may be energized at the same time on the same pair of wires.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. Provide all equipment, wiring, conduit and outlet boxes required for the erection of a complete and operating system in accordance with applicable local, state and national codes, the manufacturer's recommendations, these plans and specifications. Color code shall be used throughout.
- B. Provide necessary materials and appurtenances, including coordination with the Owner concerning a complete and timely central system tie-in between the fire alarm system and the local fire department or jurisdictional authority when required by Public Authorities. A functional test of the tie-in shall be demonstrated during the final fire alarm system testing.
- C. Sprinkler flow and tamper switches will be furnished and installed under Division 21. The Electrical subcontractor shall be responsible for wiring and connection to sprinkler switches.
- D. Cover smoke detectors to prevent contamination by dust, and keep covered until Substantial Completion.
- E. Fire alarm sub-contractor shall provide a binder of floor plate diagrams to accompany the remote annunciator panel. Floor plate diagram graphics shall be developed by the fire alarm sub-contractor and submitted for approval to the architect, the engineer and the local Fire Marshal prior to installation. Floor plate diagrams shall be located adjacent to the remote annunciator panel with final location to be approved by the architect and Fire Marshal.

3.2 TEST

- A. The manufacturer's authorized representative shall provide supervision of final system panel connections, perform a complete functional test of the system and submit a written report to the contractor attesting to the proper operation of the system.
- B. The fire alarm system shall be pre-tested and certified by the fire alarm vendor per NFPA 72 (National Fire Alarm Code) prior to acceptance testing. A copy of the manufacturer representative's certification report shall be made available to the owner's representative and Code Official prior to the acceptance test.
- C. Test completed system in the presence of the Public Authority and owner.

3.3 FINAL INSPECTION

- A. Upon completion of the installation, the electrical contractor shall provide to the architect, with a copy to the manufacturer's representative, a signed written statement attesting that all system equipment was installed in accordance with these specifications and in accordance with wiring diagrams, instructions and directions provided to the contractor by the manufacturer.

3.4 INSTRUCTION

- A. Instruction shall be provided as required for operating the system. Hands-on demonstrations of the operation of all system components shall be provided and shall include one session for a period of 8 hours. Additional time that may be required for end-user training will be at added cost to owner.
- B. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate and maintain units. Train Owner's maintenance personnel on procedures and schedules for troubleshooting, servicing, and maintaining system.

3.5 GUARANTEE

- A. All equipment and wiring shall be guaranteed against defects in materials and workmanship for a two year period from the start up and beneficial use of the system. Warranty service for the equipment shall be provided by the manufacturer's factory trained representative during normal working hours, Monday through Friday, excluding holidays. Emergency service provided at times other than as stipulated above shall be available from the same source at additional cost to the owner.

cost to the owner.

3.6 INSPECTIONS

- A. Upon satisfactory completion of the system test, the manufacturer's representative shall present for the owner's consideration, a proposal to provide semi-annual inspection and tests of the system.

END OF SECTION 283100



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Date Signed: 10/14/2024

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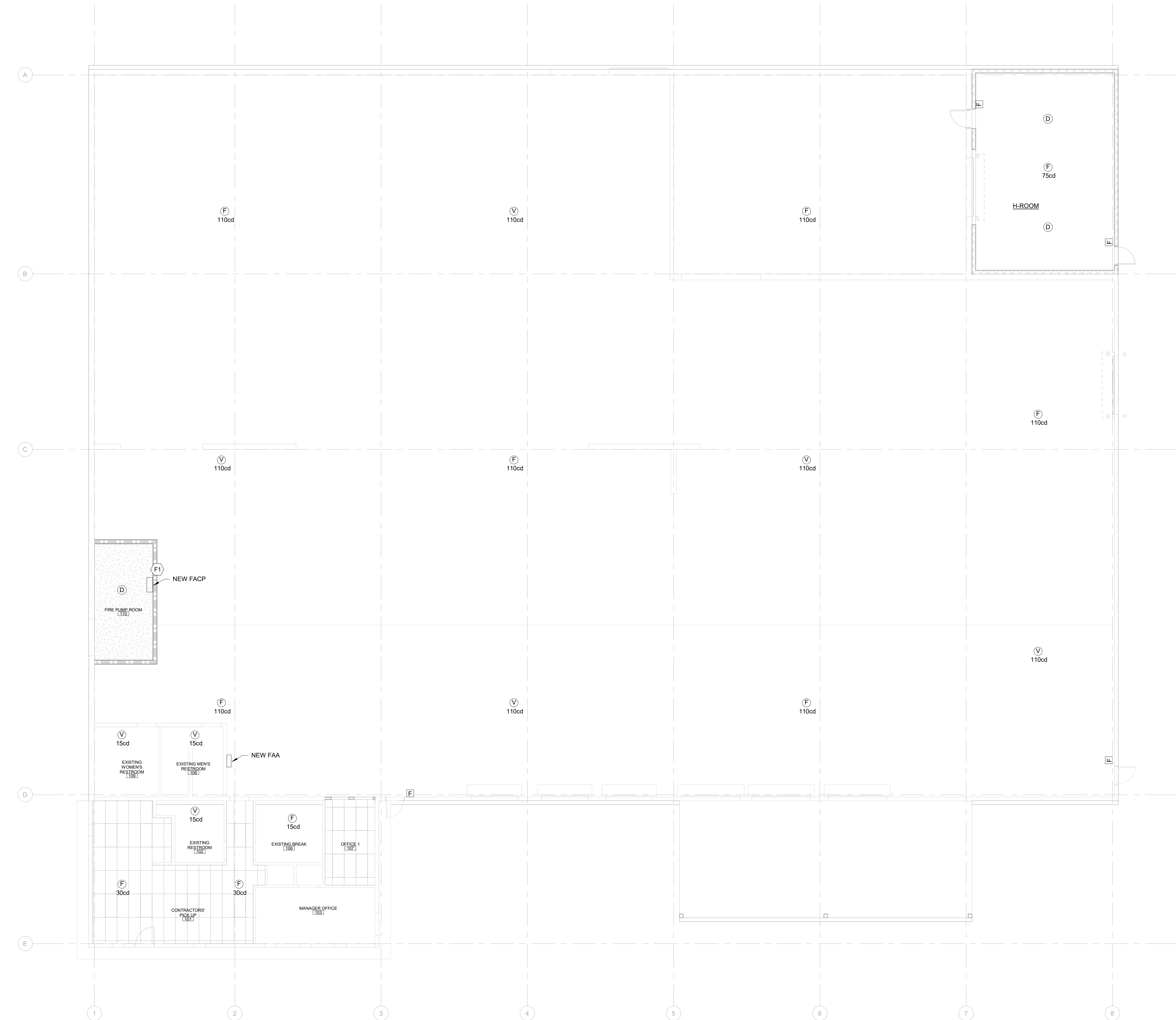


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Print Record	Dwn.	Chk.
14 OCT 24 ISSUED FOR PERMIT		

Revisions	

Date 10/14/2024 Project No. 2023362.00



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

KEY NOTES

F1 NEW FIRE ALARM CONTROL PANEL AND SYSTEM SHALL BE BACKED UP BY NEW EMERGENCY STAND-BY GENERATOR AS REQUIRED BY IFC 2021 SECTION 904.7. ALL OCCUPANTS IN THE BUILDING SHALL BE ALERTED IN THE EVENT OF AN EMERGENCY INVOLVING HAZARDOUS MATERIALS STORED IN THE H-ROOM.

GENERAL NOTES

- COORDINATE EXACT LOCATION OF ALL FIRE ALARM DEVICES WITH ARCHITECTURAL PLANS AND OTHER TRADES PRIOR TO INSTALLATION.
- SHADED AREAS ARE NOT IN SCOPE.
- ALL FIRE ALARM DEVICES, BOXES, AND WIRING WITHIN H-ROOM SHALL BE CLASS 1, DIVISION 1 RATED IN ACCORDANCE WITH NEC SECTION 501 REQUIREMENTS.

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BWA Project #: 2024-1025
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Revisions	

Date	Project No.
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Sheet No.
FA-100
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☐ Not Released for Construction