INTERIOR RENOVATION
MARCUS STROKE AND NEUROSCIENCE
ANGIO 1 REPLACEMENT

GRADY MEMORIAL HOSPITAL
SUITE 8-A
80 JESSE HILL, JUNIOR DRIVE SE
ATLANTA, GA 30303

DRAWING INDEX

		25 APRIL 2025 ISSUE FOR PERMIT	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION
ARCHITECTURAL												
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A-002	GENERAL NOTES, SYMBOLS, & ABBREVIATIONS	●										
A-004	TYPICAL MOUNTING HEIGHTS	●										
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		25 APRIL 2025 ISSUE FOR PERMIT	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION	DD MMM YYYY REVISION DESCRIPTION
EQUIPMENT												
EQ0.00	MDEQ COVER SHEET	●										
EQ1.01	1ST FLOOR - MEDICAL EQUIPMENT	●										
STRUCTURAL												
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MECHANICAL												
M-001	MECHANICAL SYMBOLS, LEGEND, NOTES AND INDEX	●										
M-002	MECHANICAL SPECIFICATIONS	●										
M-003	MECHANICAL DETAILS	●										
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M-101	MECHANICAL PLANS	●										
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FIRE PROTECTION												
FP001	FIRE PROTECTION SYMBOLS, LEGEND, NOTES AND INDEX	●										
FP101	FIRE PROTECTION PLAN AND DETAILS	●										

REFERENCE DRAWINGS

WEST PHYSICS - 2025-03-18_SD REPORT_FLUORO_ANGIO SUITE_GRADY MEMORIAL HOSPITAL_F1003638_DCB, MXW
PHILIPS - N-SOU240375 - FINAL SITE PREPARATION DOCUMENTS 4-18-2025

TEAM DIRECTORY

OWNER		
GRADY HEALTH SYSTEMS		
80 JESSE HILL JR. DRIVE SE ATLANTA, GA 30303 ADDRESS 3	TYRONE WILLIAMS 404.6163228	TEWILLIAMS@GMH.EDU
CONTRACTOR		
TBD		
ARCHITECT		
RANDALL-PAULSON ARCHITECTS		
85-A MILL STREET SUITE 200 ROSWELL, GEORGIA 30075	ARCHITECT OF RECORD: ALEX S. PAULSON PROJECT CONTACT: ALIZA GRAY 770.650.7558	AGRAY@RANDALLPAULSON.COM
STRUCTURAL ENGINEER		
SHEAR STRUCTURAL		
3411 PIERCE DRIVE SUITE 100 CHAMBLEE, GA 30341	ANGELINA STASULIS 678.644.8051	ASTASULIS@SHEARSTRUCTURAL.COM
MECHANICAL ENGINEER		
TLC ENGINEERING		
4360 CHAMBLEE DUNWOODY RAOD SUITE 210 ATLANTA, GA 30341	MATT MASON 770.451.6757	MATT.MASON@TLC.COM
ELECTRICAL ENGINEER		
TLC ENGINEERING		
4360 CHAMBLEE DUNWOODY RAOD SUITE 210 ATLANTA, GA 30341	MICHAEL GIORDANO 770.451.6757	MICHAEL.GIORDANO@TLC.COM
PLUMBING ENGINEER		
TLC ENGINEERING		
4360 CHAMBLEE DUNWOODY RAOD SUITE 210 ATLANTA, GA 30341	MICHAEL GIORDANO 770.451.6757	MICHAEL.GIORDANO@TLC.COM
LOW VOLTAGE ENGINEER		
J&A ENGINEERING		
4994 LOWER ROSWELL ROAD SUITE 1 ATLANTA, GA 30341	KALEB PERKINS 770.817.4220	KPERKINS@JAENGINEERING.NET

PROJECT DATA

NAME OF DEVELOPMENT:	MARCUS STROKE AND NEUROSCIENCE CENTER- ANGIO 1 REPLACEMENT
PROJECT ADDRESS:	80 JESSE HILL, JUNIOR DRIVE, SE, ATLANTA, GEORGIA, 30303
ARCHITECT:	ALEX S. PAULSON, AIA PHONE #: 770.650.7558 STATE REGIS. #: RA007180
A: SCOPE OF WORK:	THE SCOPE OF WORK CONSISTS OF AN EQUIPMENT REPLACEMENT FOR AN EXISITING ANGIO 1 IN GRADY HOSPITAL. THE WORK WILL INCLUDE EQUIPMENT AND FINISH UPGRADES ALONG WITH, MECHANICAL, ELECTRICAL, AND PLUMBING UPDATES.
B: OCCUPANCY CLASSIFICATION:	BUISNESS
C: TYPE OF CONSTRUCTION:	EXISTING, II-B
D. SPRINKLERED:	YES
E: SEISMIC RISK CATEGORY:	EXISTING
F. SEISMIC DESIGN CATEGORY:	EXISTING
G: TOTAL AREA IN SQUARE FEET: ±	1080 SF
H: BUILDING HEIGHT IN FEET:	EXISTING
I: NUMBER OF STORIES:	EXISTING 8
J: PERMIT APPLIED FOR:	INTERIOR TENANT
K: CALCULATED LOAD FOR OCCUPANCY:	HEALTHCARE - INPATIENT TREATMENT DEPARTMENTS ± (1080) SF/ 400 = (3)...

L: ALL BUILDINGS DESCRIBED IN THESE PLANS SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE GEORGIA STATE CODES AS LISTED BELOW:

BUILDING - INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH CURRENT STATE AMENDMENT
PLUMBING - INTERNATIONAL PLUMBING CODE, 2018 EDITION, WITH CURRENT STATE AMENDMENT
MECHANICAL - INTERNATIONAL MECHANICAL CODE, 2018 EDITION, WITH CURRENT STATE AMENDMENT
GAS - INTERNATIONAL FUEL AND GAS CODE, 2018 EDITION, WITH CURRENT STATE AMENDMENT
ENERGY - INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION, WITH CURRENT STATE SUPPLEMENTS AND
FIRE - INTERNATIONAL FIRE CODE, 2018 EDITION, WITH CURRENT STATE AMENDMENT
ELECTRICAL - NATIONAL ELECTRICAL CODE, 2023 EDITION, WITH CURRENT STATE AMENDMENT
LIFE SAFETY - NFPA 101 LIFE SAFETY CODE, 2024 EDITION, WITH CURRENT STATE AMENDMENT
2010 AMERICAN DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN

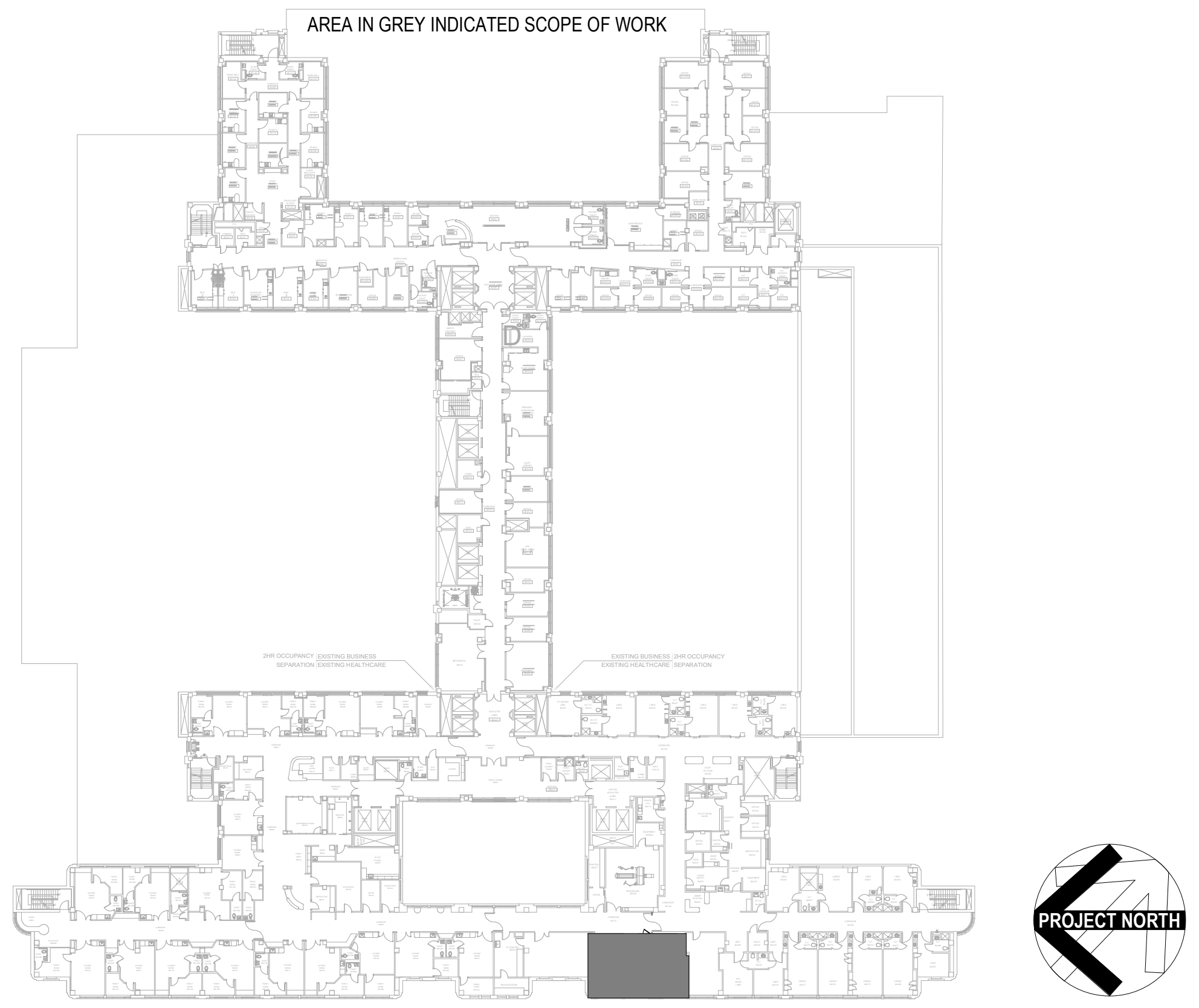
SEE SHEET A-030 FOR ADDITIONAL CODE INFORMATION

LOCATION MAP

SITE
Grady Memorial Hospital
Piedmont Atlanta
Morningside Nature Preserve
Emory University
Atlanta Botanical Garden
MIDTOWN
GEORGIA TECH
Georgia Aquarium
Mercedes-Benz Stadium
OLD FOURTH WARD
Freedom Park
WEST END
GRANT PARK
EAST ATLANTA
Bobby Jones Golf Course

REFERENCE PLAN

AREA IN GREY INDICATED SCOPE OF WORK



RANDALL PAULSON architects
Roswell . Nashua

ALEX S. PAULSON
25 APRIL 2025

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

architecture/interiors

INTERIOR RENOVATION

at

MARCUS STROKE AND NEUROSCIENCE ANGIO 1 REPLACEMENT

for

Grady

GRADY MEMORIAL HOSPITAL
SUITE 8-A
80 JESSE HILL, JUNIOR DRIVE SE
ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	AG	ZS
25 APR 25	ISSUE FOR PERMIT	AG	ZS

Revisions

Date: 25 APRIL 2025
Project No.: 2024509.00
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
ASS'Y	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AUX	AUXLIARY

B

B	BOILER
B/O	BOTTOM OF
BB	BULLENTIN 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	COLUMN
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
D/W	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
EIFS	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
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
EXP	EXPANSION
EXPO	EXPOSED
EXT	EXTERIOR

F

F	FAHRENHEIT
FA	FIRE ALARM
FAP	FIRE ALARM PANEL
FC	FOOTCANDLES
FD	FLOOR DRAIN, FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FIN	FINISH
FM	FACTORY MUTUAL
FOLD PART	FOLDING PARTITION
FP	FIRE PROTECTION
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET

G

G	GAS
GA	GUAGE
GALV	GALVANIZED
GEN	GENERATOR
GFI	GROUND FAULT (CURRENT) INTERRUPTER
GL	GLASS, GLAZING
GND	GROUND
GWB	GYPSUM 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

I/M	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

M/W	MICROWAVE
MAINT	MAINTENANCE
MATL	MATERIAL
MAU	MAKEUP AIR UNIT
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANCIAL
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
NFWH	NON-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 VALUE
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
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATMENT, PORCELEAN 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, REFLECTED CEILING PLAN
RCPTN	RECEPTION
RD	ROOF DRAIN
REF	REFRIGERATOR
REG	REGISTRATION, REGISTER
REINF	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
SQ	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
TFF	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

U/S	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

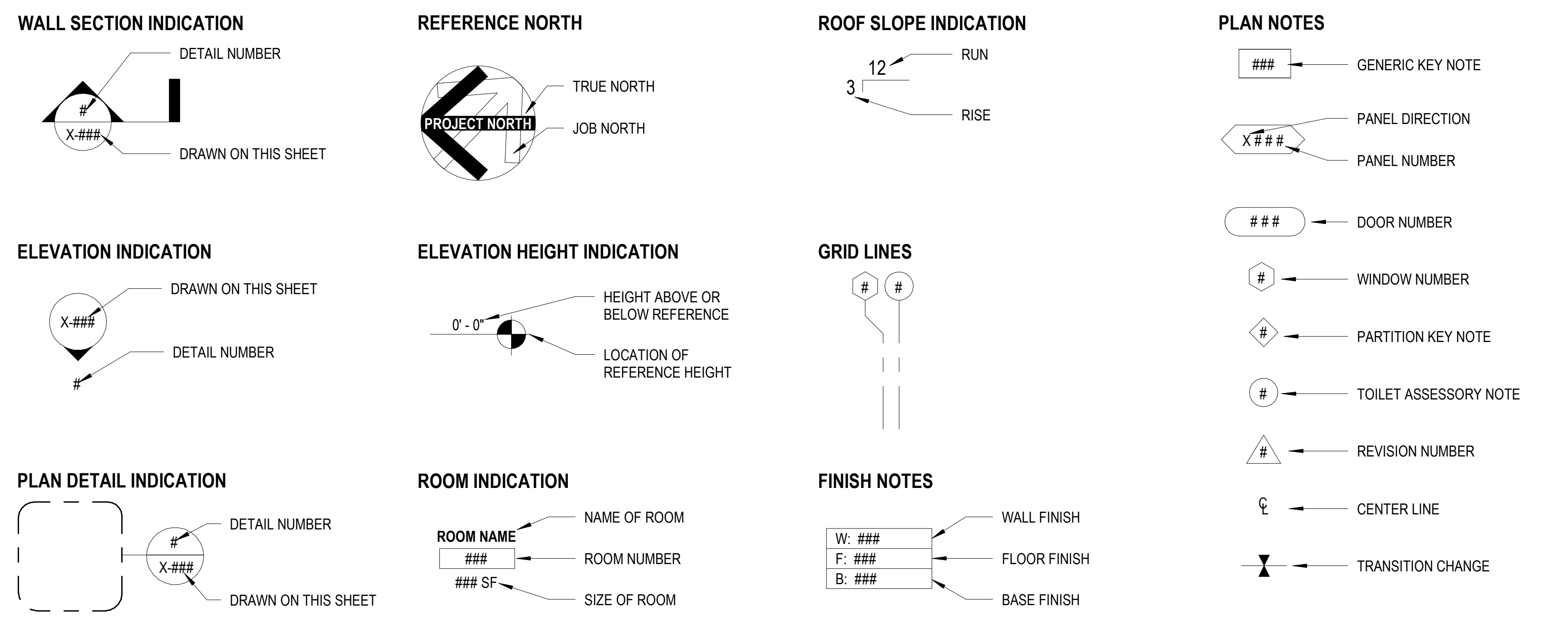
W

W	WATER
W/	WITH
W/H	WATER HEATER
W/O	WITHOUT
WC	WATER CLOSET, WALL COVERING
WCO	WALL CLEANOUT
WD	WOOD
WHSE	WAREHOUSE
WM	WOMEN
WP	WEATHERPROOF
WT	WALL TILE

Y

YD	YARD

SYMBOLS



GENERAL NOTES

A PRODUCT SUBSTITUTION CONSTITUTES A REPRESENTATION THAT THE CONTRACTOR HAS INVESTIGATED THE PROPOSED PRODUCT AND DETERMINED THAT IT MEETS OR EXCEEDS THE QUALITY LEVEL OF THE SPECIFIED PRODUCT; THAT THE CONTRACTOR WILL PROVIDE THE SAME WARRANTY FOR THE SUBSTITUTION AS FOR THE SPECIFIED PRODUCT; THAT THE CONTRACTOR WILL COORDINATE INSTALLATION AND MAKE CHANGES TO OTHER WORK THAT MAY BE REQUIRED FOR THE WORK TO BE COMPLETE WITH NO ADDITIONAL COST TO THE OWNER. SHOULD THIS SUBSTITUTION REQUIRE RE-DESIGN, THERE MAY BE AN ADDITIONAL COST FROM THE ARCHITECT. SHOULD SUCH SUBSTITUTION IMPACT ANY CODE RELATED ITEMS IN THE DOCUMENTS SUCH AS, BUT NOT LIMITED TO, UL DETAILS, FIRE RATINGS, SIZING, SPACING OR REVISION OF STRUCTURAL REQUIREMENTS, IT SHALL BE THE CONTRACTOR'S DUTY TO RESEARCH AND PROVIDE ANY REQUIRED DOCUMENTATION INCLUDING SIGNED AND SEALED ENGINEERING CERTIFICATIONS AS MAY BE NECESSARY FOR APPROVALS BY THE AUTHORITY HAVING JURISDICTION.

1. DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN.
2. REFER TO THE PROJECT SPECIFICATIONS FOR FURTHER INFORMATION.
3. THE DESIGN OF THIS PROJECT TO THE BEST OF OUR PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF COMPLIES WITH THE APPLICABLE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA), ANSI STANDARD A117.1 AND APPLICABLE ACCESSIBILITY CODE REQUIREMENTS AS THEY APPLY TO THIS PROJECT THAT ARE IN EFFECT AT THE TIME OF PERMITTING. BECAUSE THE REQUIREMENTS OF THE ADA ARE SUBJECT TO VARIOUS AND POSSIBLY CONTRADICTORY INTERPRETATIONS, WE CANNOT AND DO NOT WARRANT OR GUARANTEE THAT THIS PROJECT WILL COMPLY WITH INTERPRETATIONS OF ADA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
4. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE APPLICABLE STATE AND LOCAL CODES AS LISTED ON COVER SHEET.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR THE SCOPE OF THE WORK.
6. ANY ERRORS, INCONSISTENCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED PROMPTLY TO THE ARCHITECT AND NO LESS THAN TWO BUSINESS DAYS BEFORE THE WORK IS TO COMMENCE.
7. THE CONTRACTOR SHALL PROVIDE A WARRANTY OF THE WORK FOR THE PERIOD OF ONE YEAR OR PER AGREEMENT WITH OWNER AFTER SUBSTANTIAL COMPLETION OR AS OTHERWISE STIPULATED IN THE CONTRACT DOCUMENTS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL DESIGN DISCIPLINES WITH THE ARCHITECTURAL DRAWINGS, INCLUDING ALL REQUIRED CLEARANCES FOR INSTALLATION OR MAINTENANCE. ALL DISCREPANCIES IN THE DOCUMENTS OR CONFLICTS WITH ANY DESIGN ELEMENTS SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION NO LESS THAN TWO BUSINESS DAYS BEFORE PROCEEDING WITH WORK. IF WORK IS COMPLETE & NOT APPROVED BY THE ARCHITECT, THE WORK SHALL BE REDONE TO MEET INTENT WITH NO ADDITIONAL COST TO OWNER.
9. THE ARCHITECT IS NOT RESPONSIBLE FOR CHANGES MADE OR AUTHORIZED BY THE OWNER, OWNER'S REPRESENTATIVES, TENANTS, CONTRACTOR OR OTHERS WITHOUT WRITTEN CONSENT BY THE ARCHITECT OR CONSULTANT.
10. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT OR OWNER'S REPRESENTATIVE AND THE OWNER A LIST OF ALL ITEMS AND THEIR DELIVERY SCHEDULES. THE LIST SHALL IDENTIFY ALL LONG-LEAD TIME ITEMS ON THE PROJECT SUCH AS MATERIALS, FABRICS, HARDWARE, ETC. PRIOR TO ORDERING AN ITEM, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT AND OWNER OF ANY ITEM WHICH MAY CAUSE THE PROJECT TO BE DELAYED.
11. THE EXTENT OF THE WORK SHALL BE LIMITED TO THAT INDICATED IN THE DRAWINGS. ANY ADDITIONAL WORK DONE MUST HAVE WRITTEN PERMISSION FROM THE ARCHITECT OR OWNER'S REPRESENTATIVE. WORK DONE WITHOUT WRITTEN PERMISSION SHALL BE AT THE CONTRACTOR'S RISK.
12. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT THE BUILDING OCCUPANTS, MATERIALS AND EXISTING FINISHES THROUGHOUT THE DURATION OF THE WORK. BARRIERS TO CONTROL NOISE, DUST, AND SECURITY BETWEEN CONSTRUCTION AREAS AND OCCUPIED AREAS OR PUBLIC AREAS SHALL BE ERECTED AND MAINTAINED BY THE CONTRACTOR.
13. THE CONTRACTOR SHALL FIELD VERIFY CONSTRUCTION TOLERANCES AND TAKE FIELD MEASUREMENTS OF ANY EXISTING CONDITIONS RELATED TO THE WORK OF THIS PROJECT. CONDITIONS ENCOUNTERED AT THE SITE MATERIALLY DIFFERENT FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE PROMPTLY REPORTED TO THE ARCHITECT OR OWNER'S REPRESENTATIVE BEFORE THE CONDITIONS ARE DISTURBED.
14. 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 OR REPLACED TO MATCH EXISTING CONDITION IN FINISH, RATING AND APPEARANCE AT NO ADDITIONAL COST.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FITTING NECESSARY TO ACHIEVE THE SCOPE OF THE WORK.
16. THE EXISTING UTILITIES OR OTHER MECHANICAL, ELECTRICAL, PLUMBING, AND LOW-VOLTAGE EQUIPMENT REQUIRING REMOVAL, CAPPING, TERMINATION, AND/OR RELOCATION SHALL BE INCLUDED IN THE OVERALL SCOPE AND PERFORMANCE OF THE PROJECT BY THE CONTRACTOR.
17. THE CONTRACTOR SHALL PROTECT AND SHALL NOT DISCONNECT ANY EXISTING FIRE ALARM DEVICES, SMOKE ALARMS, SPRINKLER HEADS, EXIT SIGNS, ASSOCIATED WIRING, AND OTHER LIFE SAFETY DEVICES IN OPERATION, BEFORE COORDINATING WITH FIRE MARSHAL. FINAL LIFE SAFETY DEVICE LOCATION LAYOUT AND EGRESS PLAN SHALL BE REVIEWED AND APPROVED BY AUTHORITY HAVING JURISDICTION PRIOR TO WORK BEING PERFORMED.
18. ALL MATERIALS AND DEVICES USED FOR THIS PROJECT ARE TO BE NEW, NEITHER PREVIOUSLY STORED NOR PREVIOUSLY USED IN THIS OR ANOTHER LOCATION.
19. CENTERLINE OF PARTITIONS SHALL ALIGN WITH CENTERLINE OF COLUMN, COLUMN LINE, DIMENSION REFERENCE, OR CENTERLINE OF WINDOW MULLIONS AS SHOWN, UNLESS OTHERWISE NOTED.
20. DIMENSIONS AT STUD WALLS ARE MEASURED FROM FACE OF STUD TO FACE OF STUD, UNLESS OTHERWISE NOTED. DIMENSIONS AT STOREFRONT ARE MEASURED FROM THE FACE OF STUD TO FACE OF MULLION, UNLESS OTHERWISE NOTED. DIMENSIONS AT BUILDING WALLS (IMP/CONCRETE/CMU) ARE MEASURED FROM FACE OF STUD TO FACE OF BUILDING WALL MATERIAL, UNLESS OTHERWISE NOTED.
21. NEW WORK AT EXISTING CONDITIONS SHALL ALIGN WITH AND MATCH EXISTING WORK EXCEPT WHERE OTHERWISE DIMENSIONED OR DETAILED.
22. "TYPICAL" OR "TYP." SHALL MEAN THAT THE REFERENCED DETAIL OR DIMENSION SHALL APPLY FOR ALL SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED.
23. PROVIDE BRACING ABOVE PARTITIONS AS NECESSARY TO SUPPORT ASSEMBLIES ATTACHED OR CONTAINED WITHIN, IN COMPLIANCE WITH MINIMUM STANDARDS OF ASTM C645-88. DESIGN INTERIOR PARTITIONS FOR MAXIMUM DEFLECTION OF L/240 AT 5 PSF.
24. AT EXISTING PARTITIONS TO REMAIN WHICH ARE CHANGED TO BE RATED PARTITIONS, MODIFY THE PARTITION CONSTRUCTION ASSEMBLY AS REQUIRED TO MEET THE REQUIREMENTS FOR THE APPLICABLE FIRE RATING.
25. PERMANENTLY IDENTIFY BOTH SIDES OF ALL FIRE RATED AND SMOKE PARTITIONS IN CONCEALED SPACES WITH THE WORDING - "FIRE AND(/OR) SMOKE BARRIER - PROTECT ALL OPENINGS."
26. ALL SOUND PARTITIONS SHALL INCLUDE ACOUSTICAL SEALANT AT BASE, HEAD, PERIMETER AND ALL OPENINGS.
27. PARTITIONS ABUTTING CURTAIN WALL MULLIONS AND/OR STOREFRONT SHALL NOT BE ATTACHED BY SCREWS OR OTHER MECHANICAL FASTENERS.
28. ALL WOOD USED AS STUDS, BLOCKING OR BRACING SHALL BE PRESSURE TREATED IF EXPOSED TO WET AREAS, AND/OR IS IN CONTACT WITH CONCRETE OR MASONRY AND FIRE TREATED IF REQUIRED BY CODE.
29. PROVIDE BLOCKING, BRACING, AND NAILERS AS REQUIRED FOR FINISHES, MILLWORK (UPPER AND LOWER CABINETS), EQUIPMENT (I.E. RESTROOM), SHELVING, FIXTURES, ETC. CONTRACTOR TO COORDINATE REQUIRED HEIGHTS AND TYPE OF BLOCKING FOR LOCATIONS INDICATED AND/OR CODE REQUIREMENTS. ALL ATTACHMENTS, SCREWS, AND BOLTS BETWEEN STRUCTURAL STEEL AND TREATED WOOD, BLOCKING AND NAILERS SHALL BE GALVANIZED.
30. HORIZONTAL ELEMENTS SUCH AS DOOR HEADS SHALL BE MAINTAINED AT A CONSTANT LEVEL AND SHALL NOT FOLLOW VARIATIONS IN FLOOR PLANE. LEVEL FLOORS AS REQUIRED USING APPROVED LEVELING COMPOUND, UNLESS OTHERWISE DIRECTED IN DRAWINGS.
31. ALL SUBSTRATE SURFACES ARE TO BE PREPARED TO RECEIVE FINISH MATERIALS PER MANUFACTURER'S PRODUCT LITERATURE AND WRITTEN INSTRUCTIONS FOR INSTALLATION OR APPLICATION.
32. ALL FASTENERS AND ATTACHMENTS SHALL BE CONCEALED FROM VIEW, UNLESS OTHERWISE NOTED.
33. EXIT DOORS SHALL NOT REQUIRE THE USE OF A KEY, TOOL, OR SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FROM THE INSIDE OF THE BUILDING PER THE NFPA 101 LIFE SAFETY CODE IN EFFECT AT TIME OF PERMITTING: LOCKS, LATCHES, AND ALARM DEVICES.
34. NEW AND EXISTING PENETRATIONS, WITHIN THE SCOPE OF THE WORK, INTO OR THROUGH EITHER VERTICAL OR HORIZONTAL FIRE-RATED BARRIERS SHALL BE PROTECTED BY A SYSTEM LISTED BY A RECOGNIZED TESTING AGENCY.
35. THE CONTRACTOR SHALL PROVIDE AND INSTALL EQUIPMENT AND APPLIANCES SPECIFIED, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE AND/OR COORDINATE INSTALLATION OF TENANT-FURNISHED EQUIPMENT AND APPLIANCES, IF REQUIRED. THE CONTRACTOR SHALL VERIFY ALL PLUMBING AND ELECTRICAL REQUIREMENTS RELATED TO EQUIPMENT AND APPLIANCES IN THE SCOPE OF THE WORK.
36. VERIFY LOCATIONS OF ALL FIRE EXTINGUISHERS, SURFACE-MOUNTED OR RECESSED, FOR CODE COMPLIANCE. PROVIDE FIRE EXTINGUISHERS PER CODE IF NOT SHOWN ON DRAWINGS.
37. VERIFY LOCATIONS OF ALL ELECTRICAL DEVICES, LIFE SAFETY DEVICES AND THERMOSTAT LOCATIONS WITH ARCHITECT FOR COORDINATION WITH DESIGN ELEMENTS PRIOR TO INSTALLATION. AT LOCATIONS WHERE ELECTRICAL, MECHANICAL AND/OR OTHER DEVICES OCCUR TOGETHER BUT AT DIFFERENT HEIGHTS, THE DEVICES SHALL BE CENTERED ABOVE EACH OTHER.

RANDALL
PAULSON
architects
Roswell . Nashua

ALEX S. PAULSON
CERTIFICATE NO. 7180
25 APRIL 2025

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

architecture/interiors

INTERIOR RENOVATION

at

MARCUS STROKE AND NEUROSCIENCE ANGIO 1 REPLACEMENT

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Grady

GRADY MEMORIAL HOSPITAL
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Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	AG	ZS
25 APR 25	ISSUE FOR PERMIT		

Revisions

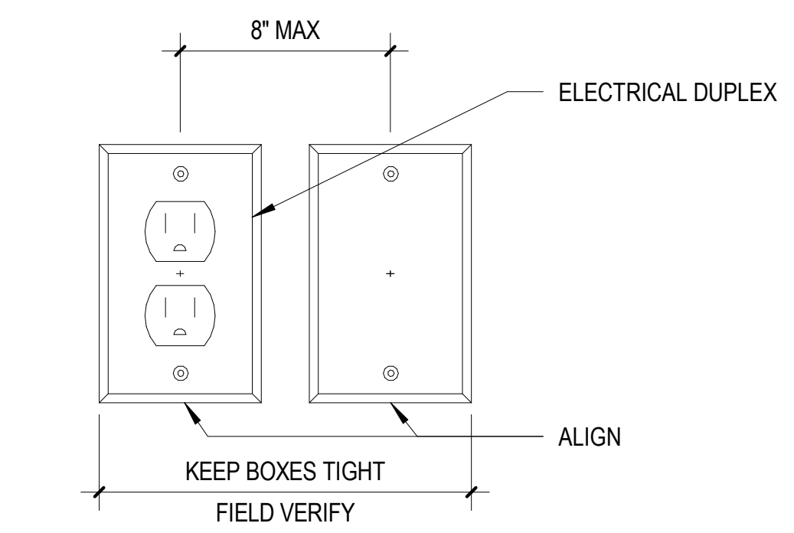
Date
25 APRIL 2025

Project No.
2024509.00

Sheet Title
GENERAL NOTES, SYMBOLS, & ABBREVIATIONS

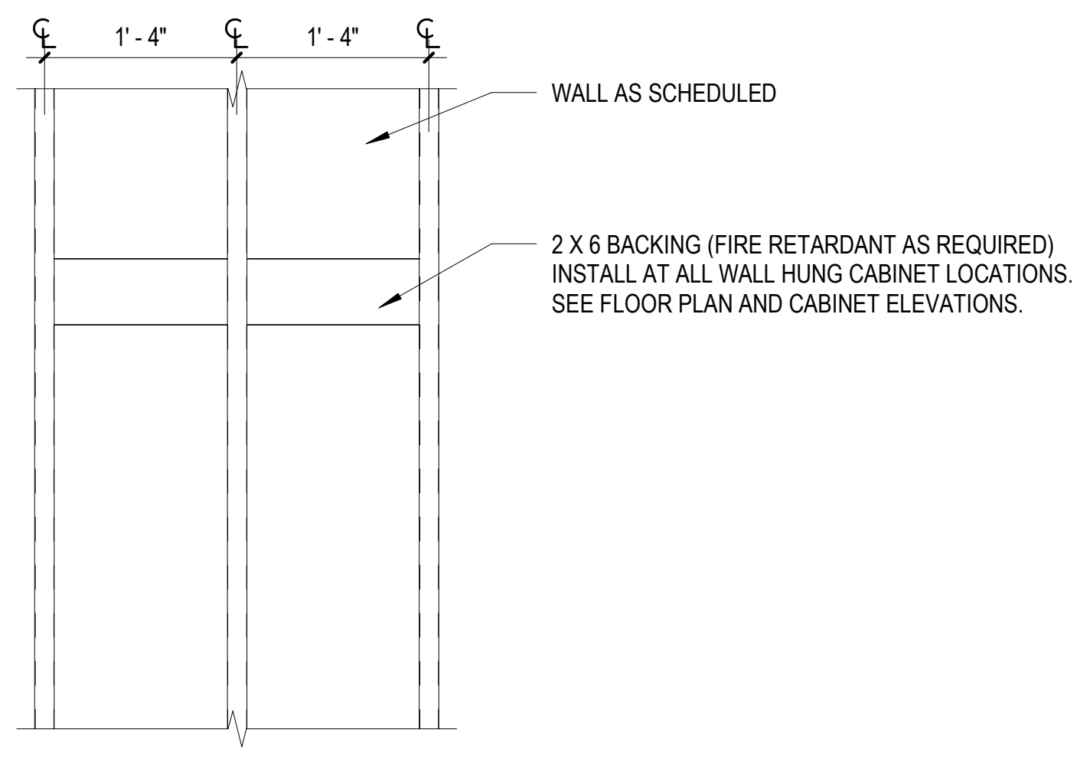
Sheet No.
A-002

■ Released for Construction
☐ Not Released for Construction

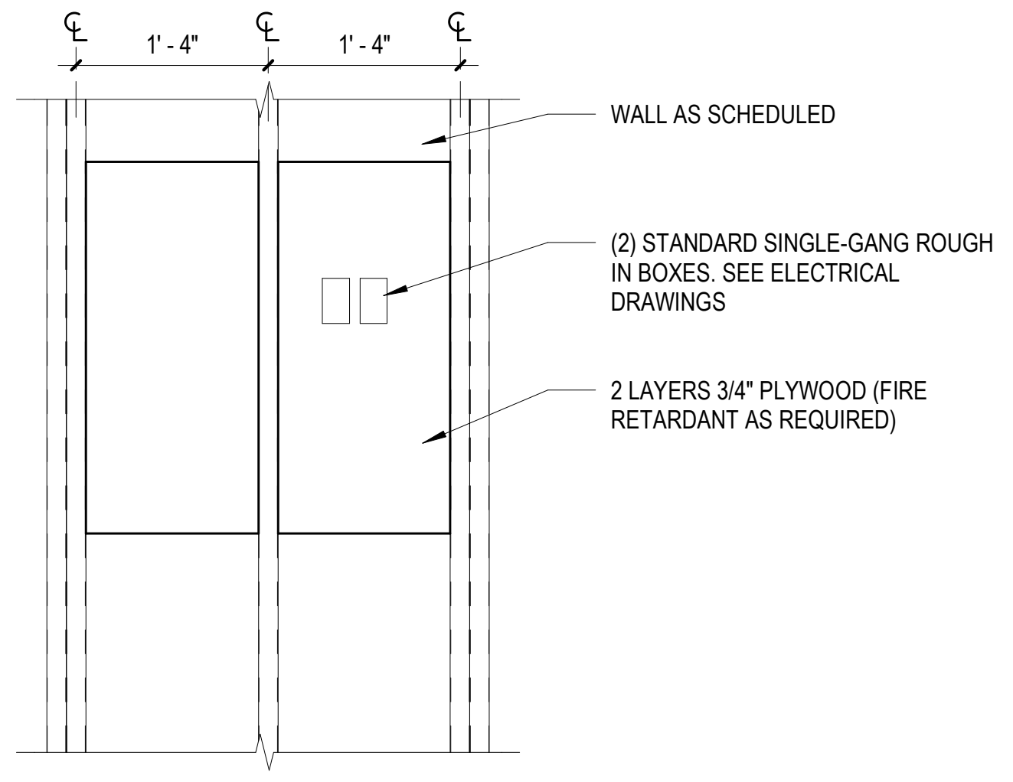

8" MAX
ELECTRICAL DUPLEX
ALIGN
KEEP BOXES TIGHT
FIELD VERIFY

NOTE
1. KEEP OUTLETS AS CLOSE TOGETHER AS POSSIBLE. FIELD VERIFY.
2. ORIENT OUTLETS VERTICALLY. TYPICAL, UNLESS NOTED OTHERWISE.

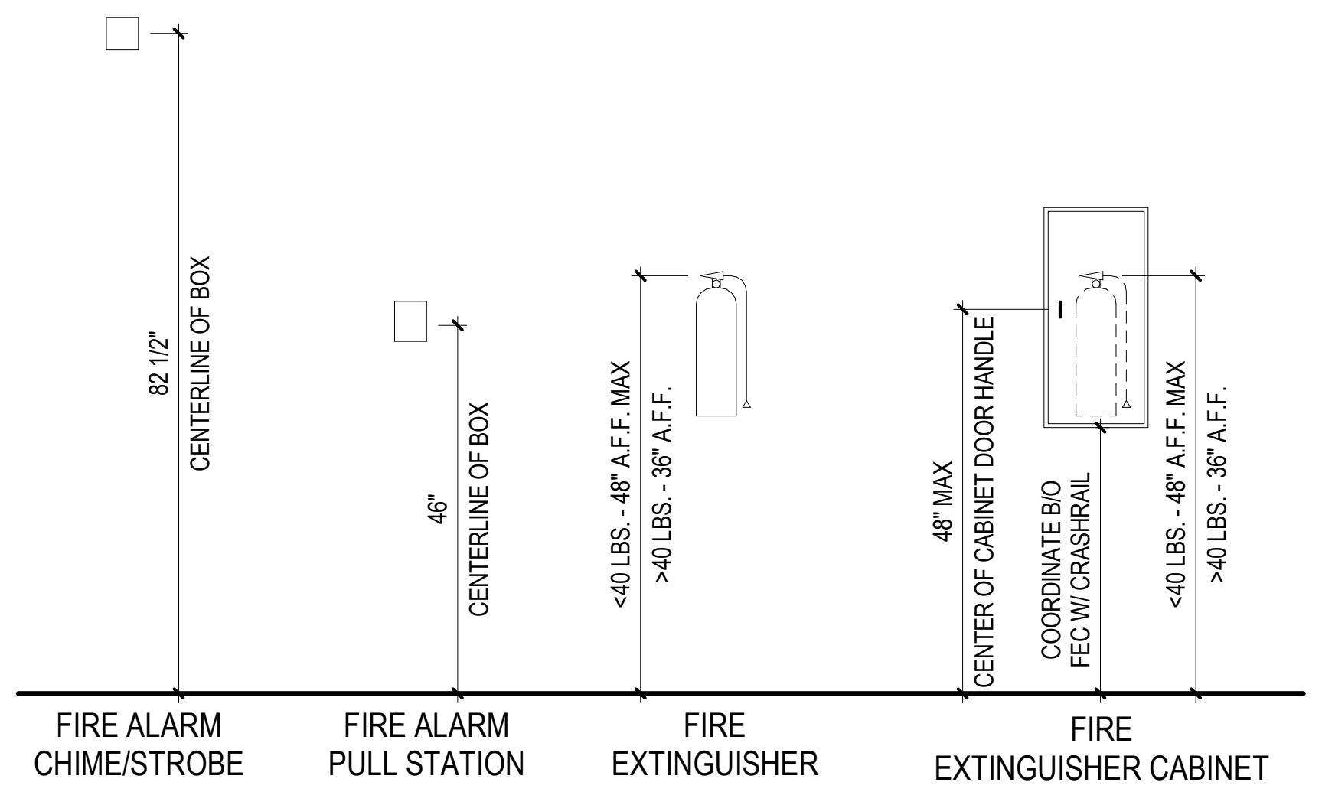
1 A-004 TYPICAL OUTLET BOX PAIR
3" = 1'-0"


℄
1' - 4"
1' - 4"
WALL AS SCHEDULED
2 X 6 BACKING (FIRE RETARDANT AS REQUIRED) INSTALL AT ALL WALL HUNG CABINET LOCATIONS. SEE FLOOR PLAN AND CABINET ELEVATIONS.

2 A-004 WALL HUNG CABINET BLOCKING
3/4" = 1'-0"

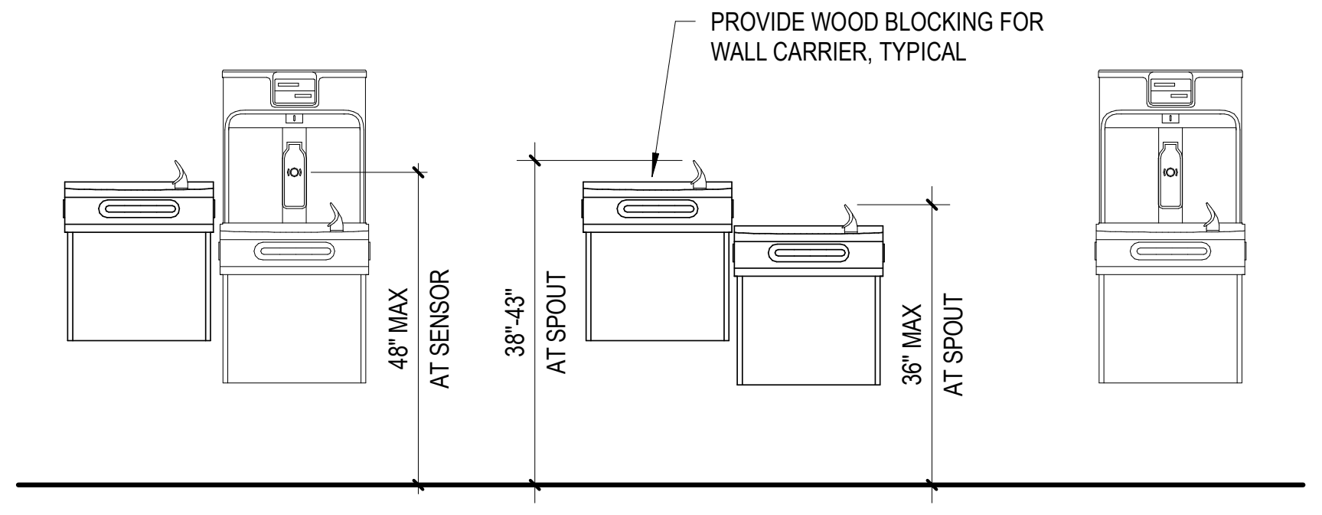

℄
1' - 4"
1' - 4"
WALL AS SCHEDULED
(2) STANDARD SINGLE-GANG ROUGH IN BOXES. SEE ELECTRICAL DRAWINGS
2 LAYERS 3/4" PLYWOOD (FIRE RETARDANT AS REQUIRED)

3 A-004 TV / MONITOR BLOCKING
3/4" = 1'-0"


82 1/2"
CENTERLINE OF BOX
46"
CENTERLINE OF BOX
<40 LBS. - 48" A.F.F. MAX
>40 LBS. - 36" A.F.F.
48" MAX
CENTER OF CABINET DOOR HANDLE
COORDINATE B/O FEC W/ CRASHRAIL
<40 LBS. - 48" A.F.F. MAX
>40 LBS. - 36" A.F.F.
FIRE ALARM CHIME/STROBE
FIRE ALARM PULL STATION
FIRE EXTINGUISHER
FIRE EXTINGUISHER CABINET

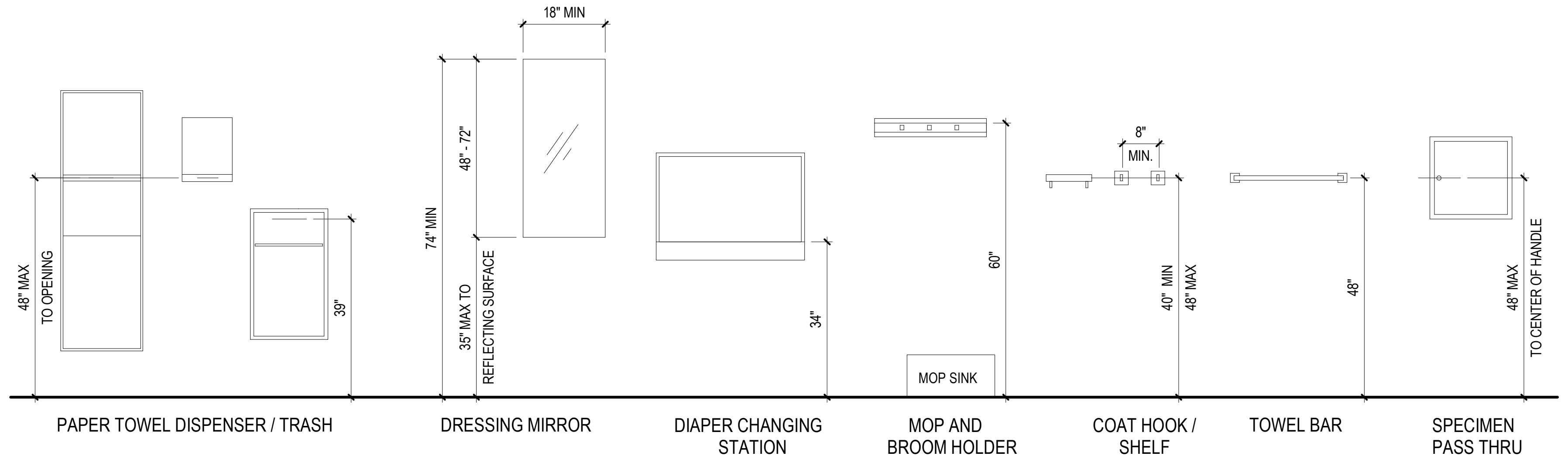
NOTES
1. TYPICAL FIRE EXTINGUISHER RATED: 10 LB., 4A-60BC
2. FUR AROUND ALL FIRE EXTINGUISHER CABINETS SO AS TO AFFORD A PROPER RECESSED FIT AND TO MAINTAIN THE INTEGRITY OF ANY RATED PARTITION IN WHICH IT MAY OCCUR.
3. PROVIDE BLOCKING CONCEALED IN PARTITION, SEE LS01 AND A101 FOR LOCATIONS

4 A-004 FIRE PROTECTION
1/2" = 1'-0"

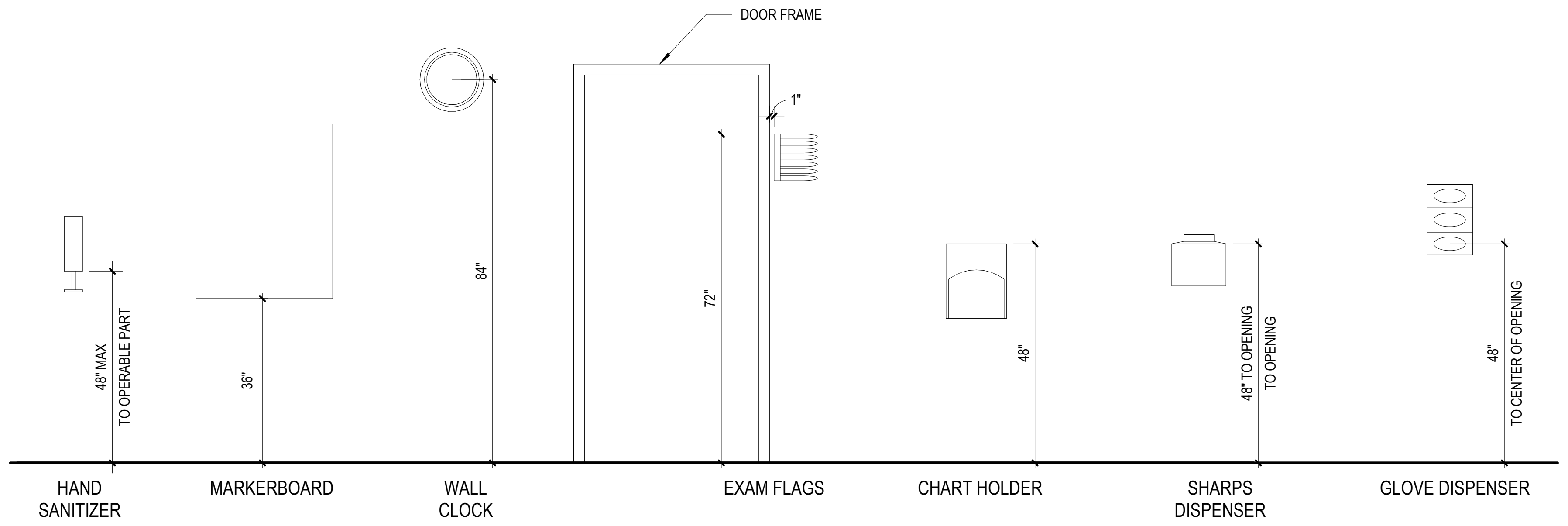

PROVIDE WOOD BLOCKING FOR WALL CARRIER, TYPICAL
48" MAX
AT SENSOR
38"-43"
AT SPOUT
36" MAX
AT SPOUT

NOTE
DRINKING FOUNTAINS SHALL COMPLY WITH 307 & 602. CLEAR FLOOR SPACE COMPLYING WITH 305. KNEE & TOE COMPLYING WITH 306, REFER TO A-006.

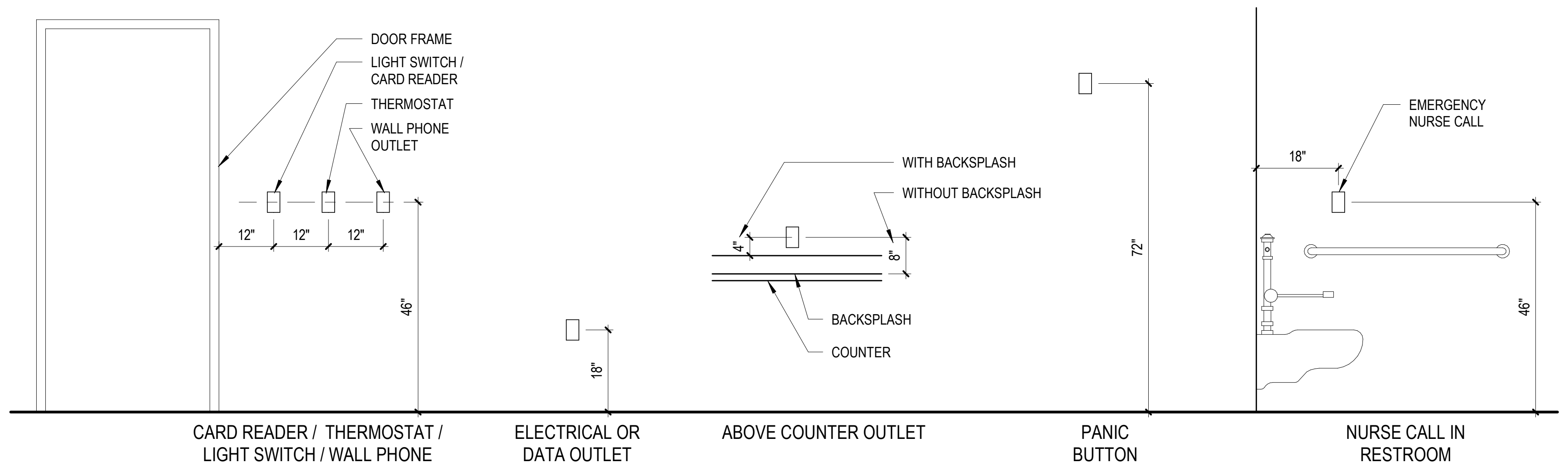
5 A-004 WATER FOUNTAIN
1/2" = 1'-0"


48" MAX
TO OPENING
39"
74" MIN
35" MAX TO
REFLECTING SURFACE
48" - 72"
18" MIN
34"
60"
MOP SINK
8"
MIN.
40" MIN
48" MAX
48"
48" MAX
TO CENTER OF HANDLE
PAPER TOWEL DISPENSER / TRASH
DRESSING MIRROR
DIAPER CHANGING STATION
MOP AND BROOM HOLDER
COAT HOOK / SHELF
TOWEL BAR
SPECIMEN PASS THRU

6 A-004 TOILET ACCESSORIES
1/2" = 1'-0"


DOOR FRAME
1"
48" MAX
TO OPERABLE PART
36"
84"
72"
48"
48" TO OPENING
TO OPENING
48"
TO CENTER OF OPENING
HAND SANITIZER
MARKERBOARD
WALL CLOCK
EXAM FLAGS
CHART HOLDER
SHARPS DISPENSER
GLOVE DISPENSER

7 A-004 EXAM ROOM ACCESSORIES
1/2" = 1'-0"


DOOR FRAME
LIGHT SWITCH / CARD READER
THERMOSTAT
WALL PHONE OUTLET
12"
12"
12"
46"
18"
WITH BACKSPLASH
WITHOUT BACKSPLASH
4"
8"
BACKSPLASH
COUNTER
72"
EMERGENCY NURSE CALL
18"
46"
CARD READER / THERMOSTAT / LIGHT SWITCH / WALL PHONE
ELECTRICAL OR DATA OUTLET
ABOVE COUNTER OUTLET
PANIC BUTTON
NURSE CALL IN RESTROOM

8 A-004 DATA & ELECTRICAL DEVICES
1/2" = 1'-0"

RANDALL PAULSON
architects
Roswell . Nashua

ALEX S. PAULSON
25 APRIL 2025

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

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Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	AG	ZS
25 APR 25	ISSUE FOR PERMIT		

Revisions

Date
25 APRIL 2025

Project No.
2024509.00

Sheet Title
TYPICAL MOUNTING HEIGHTS

Sheet No.
A-004

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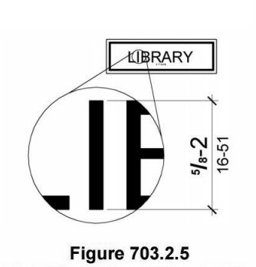

LIBRARY
5/8-2
16-51

Figure 703.2.5
Height of Raised Characters

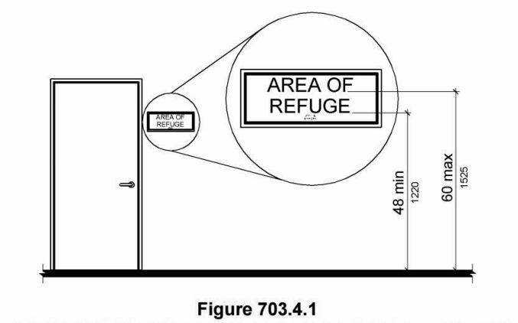

AREA OF REFUGE
48 min
1220
60 max
1525

Figure 703.4.1
Height of Tactile Characters Above Finish Floor or Ground

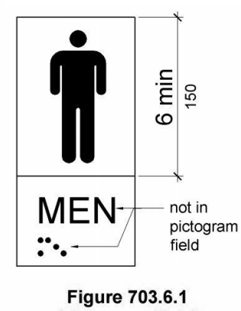

6 min
150
MEN
not in pictogram field

Figure 703.6.1
Pictogram Field

703.2.5 CHARACTER HEIGHT. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH (16 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
EXCEPTION: WHERE SEPARATE RAISED AND VISUAL CHARACTERS WITH THE SAME INFORMATION ARE PROVIDED, RAISED CHARACTER HEIGHT SHALL BE PERMITTED TO BE ½ INCH (13 MM) MINIMUM.

703.4 INSTALLATION HEIGHT AND LOCATION. SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH 703.4.

703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
EXCEPTION: TACTILE CHARACTERS FOR ELEVATOR CAR CONTROLS SHALL NOT BE REQUIRED TO COMPLY WITH 703.4.1. FIGURE 703.4.1 HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND

703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.
EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

703.5 VISUAL CHARACTERS. VISUAL CHARACTERS SHALL COMPLY WITH 703.5.

703.5.6 HEIGHT FROM FINISH FLOOR OR GROUND. VISUAL CHARACTERS SHALL BE 40 INCHES (1015 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
EXCEPTION: VISUAL CHARACTERS INDICATING ELEVATOR CAR CONTROLS SHALL NOT BE REQUIRED TO COMPLY WITH 703.5.6.

2010 ADA STANDARD - ACCESSIBLE SIGNAGE

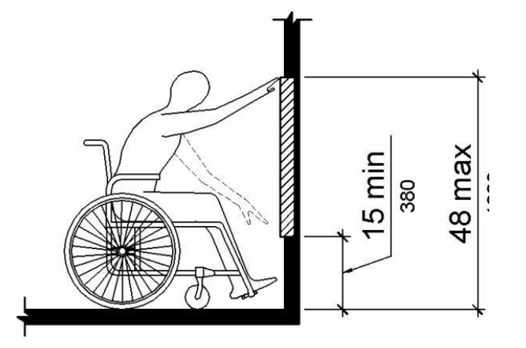

15 min
380
48 max
1220

Figure 308.2.1
Unobstructed Forward Reach

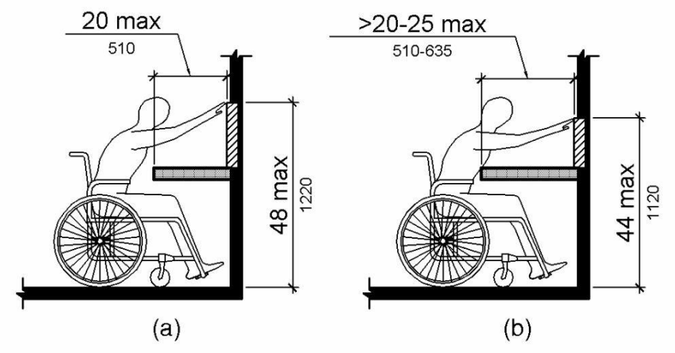

20 max
510
>20-25 max
510-635
48 max
1220
44 max
1120
(a)
(b)

Figure 308.2.2
Obstructed High Forward Reach

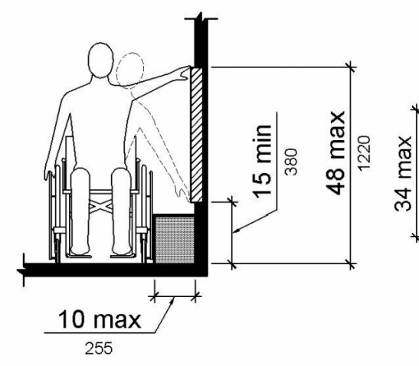

15 min
380
48 max
1220
10 max
255

Figure 308.3.1
Unobstructed Side Reach

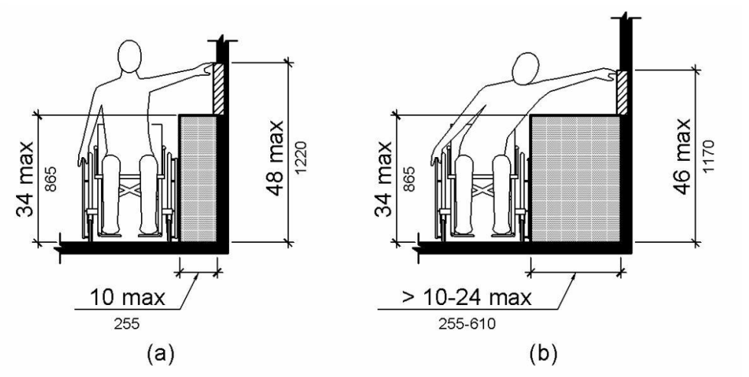

34 max
865
48 max
1220
46 max
1170
10 max
255
> 10-24 max
255-610
(a)
(b)

Figure 308.3.2
Obstructed High Side Reach

2010 ADA STANDARD - REACH RANGES REQUIREMENTS

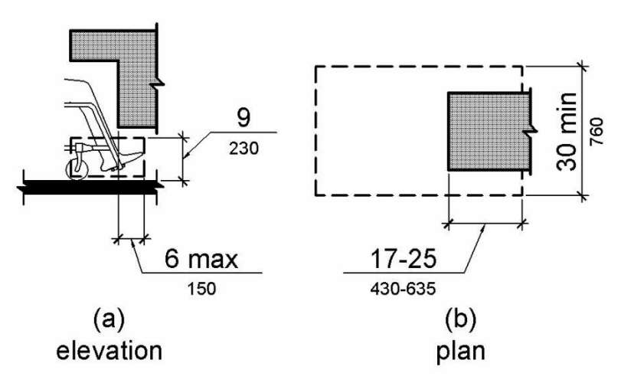

9
230
30 min
760
6 max
150
17-25
430-635
(a)
elevation
(b)
plan

Figure 306.2
Toe Clearance

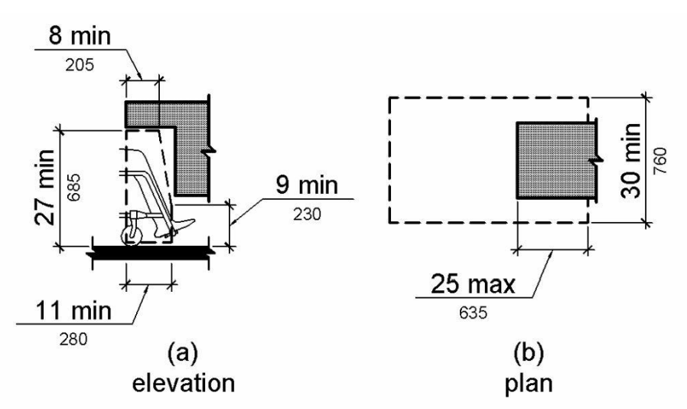

8 min
205
27 min
685
9 min
230
11 min
280
30 min
760
25 max
635
(a)
elevation
(b)
plan

Figure 306.3
Knee Clearance

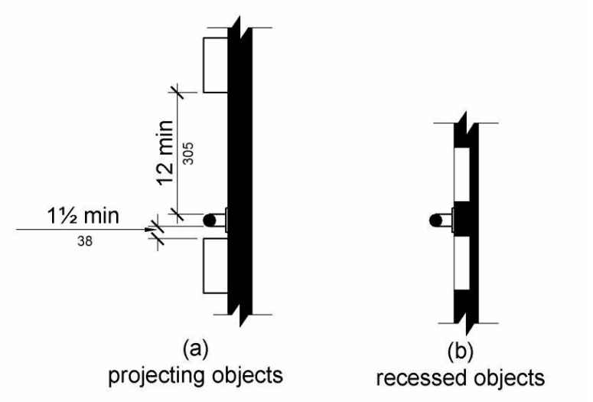

12 min
305
1½ min
38
(a)
projecting objects
(b)
recessed objects

Figure 609.3
Spacing of Grab Bars

2010 ADA STANDARD - TOE: KNEE: GRAB BAR: CLEARANCES

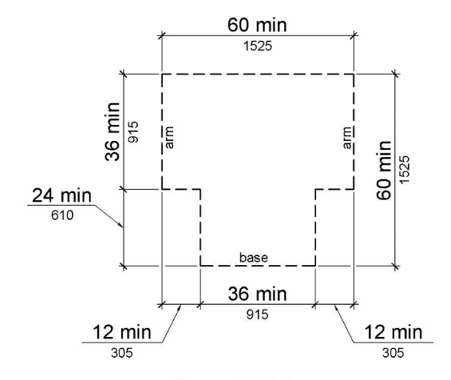

60 min
1525
36 min
915
24 min
610
60 min
1525
36 min
915
12 min
305
12 min
305
base

Figure 304.3.2
T-Shaped Turning Space

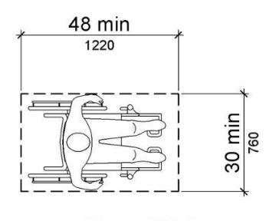

48 min
1220
30 min
760

Figure 305.3
Clear Floor or Ground Space

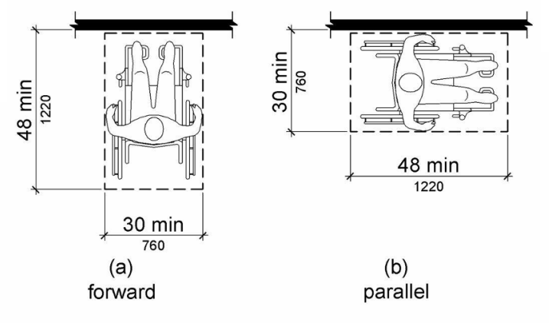

48 min
1220
30 min
760
30 min
760
48 min
1220
(a)
forward
(b)
parallel

Figure 305.5
Position of Clear Floor or Ground Space

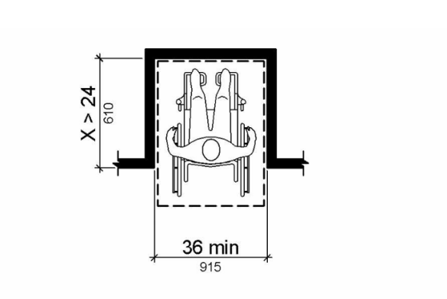

X > 24
610
36 min
915

Figure 305.7.1
Maneuvering Clearance in an Alcove, Forward Approach

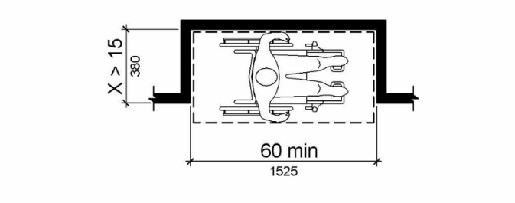

X > 15
380
60 min
1525

Figure 305.7.2
Maneuvering Clearance in an Alcove, Parallel Approach

2010 ADA STANDARD - TURNING, CLEAR FLOOR, AND GROUND SPACE

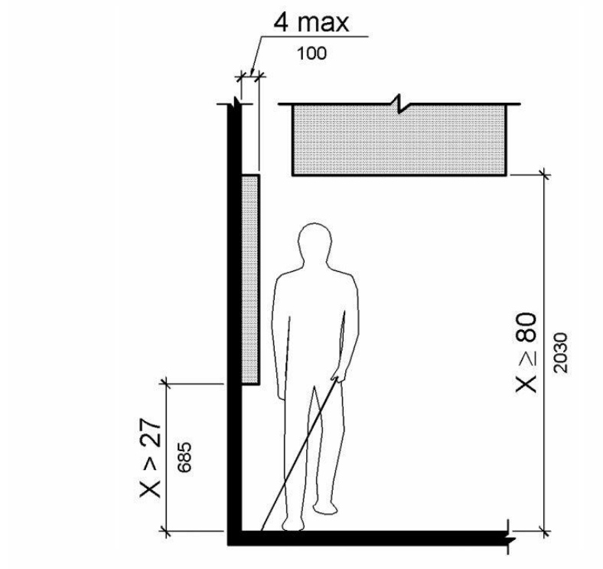

4 max
100
X ≥ 80
2030
X > 27
685

Figure 307.2
Limits of Protruding Objects

307.1 GENERAL. PROTRUDING OBJECTS SHALL COMPLY WITH 307.

307.2 PROTRUSION LIMITS. OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES (685 MM) AND NOT MORE THAN 80 INCHES (2030 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES (100 MM) MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.
EXCEPTION: HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4 1/2 INCHES (115 MM) MAXIMUM.

ADVISORY 307.2 PROTRUSION LIMITS. WHEN A CANE IS USED AND THE ELEMENT IS IN THE DETECTABLE RANGE, IT GIVES A PERSON SUFFICIENT TIME TO DETECT THE ELEMENT WITH THE CANE BEFORE THERE IS BODY CONTACT. ELEMENTS LOCATED ON CIRCULATION PATHS, INCLUDING OPERABLE ELEMENTS, MUST COMPLY WITH REQUIREMENTS FOR PROTRUDING OBJECTS. FOR EXAMPLE, AWNINGS AND THEIR SUPPORTING STRUCTURES CANNOT REDUCE THE MINIMUM REQUIRED VERTICAL CLEARANCE. SIMILARLY, CASEMENT WINDOWS, WHEN OPEN, CANNOT ENCROACH MORE THAN 4 INCHES (100 MM) INTO CIRCULATION PATHS ABOVE 27 INCHES (685 MM).

FIGURE 307.2 SHOWS AN UPRIGHT PERSON WALKING AND USING A CANE DETECTING BARRIERS ALONG A WALL. A WALL MOUNTED OBJECT, NOT LESS THAN 27 INCHES (685 MM) FROM THE FLOOR LEVEL, PROTRUDES 4 INCHES MAX. (100 MM) FROM THE WALL SURFACE, AND AN OBJECT OVERHEAD HAS A VERTICAL CLEARANCE THAT IS MORE THAN 80 INCHES (2030 MM).

2010 ADA STANDARD - LIMITS OF PROTRUDING OBJECTS

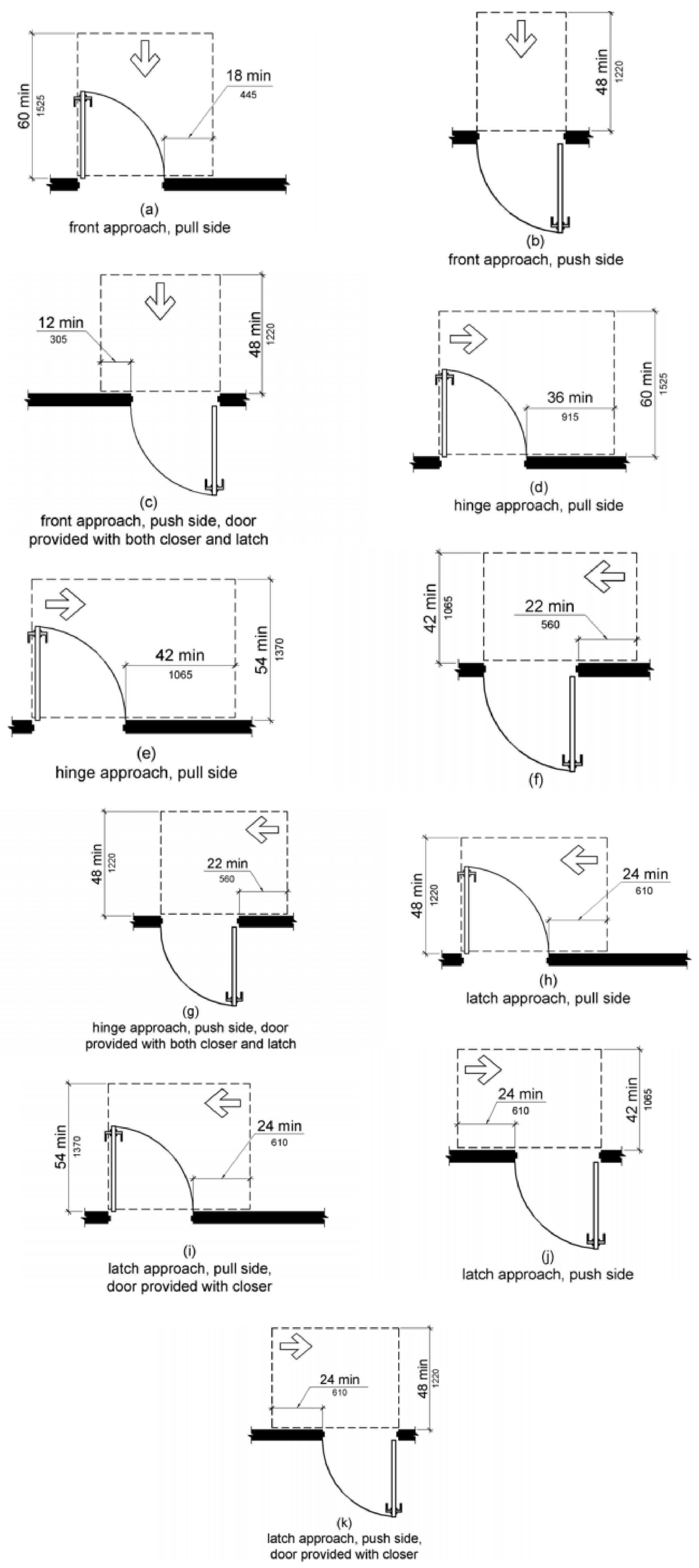
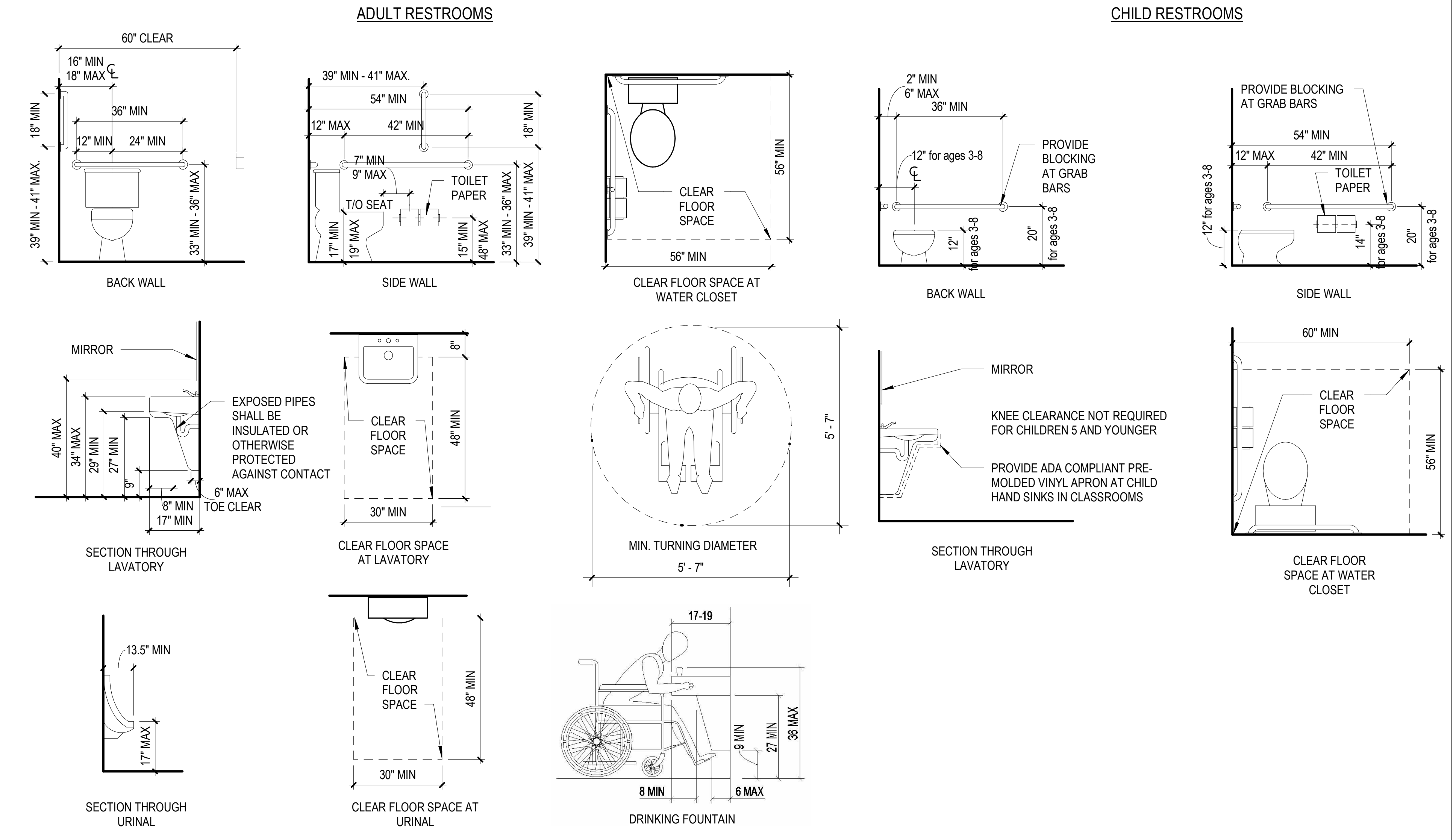

60 min
1525
18 min
445
(a)
front approach, pull side
48 min
1220
(b)
front approach, push side
12 min
305
48 min
1220
(c)
front approach, push side, door provided with both closer and latch
36 min
915
60 min
1525
(d)
hinge approach, pull side
42 min
1065
54 min
1370
(e)
hinge approach, pull side
42 min
1065
22 min
560
(f)
48 min
1220
22 min
560
(g)
hinge approach, push side, door provided with both closer and latch
48 min
1220
24 min
610
(h)
latch approach, pull side
54 min
1370
24 min
610
(i)
latch approach, pull side, door provided with closer
24 min
610
42 min
1065
(j)
latch approach, push side
24 min
610
48 min
1220
(k)
latch approach, push side, door provided with closer

Figure 404.2.4.1
Maneuvering Clearances at Manual Swinging Doors and Gates

2010 ADA STANDARD - DOOR APPROACH CLEARANCE DIAGRAM


ADULT RESTROOMS
CHILD RESTROOMS
60" CLEAR
16" MIN
18" MAX
18" MIN
36" MIN
12" MIN
24" MIN
39" MIN - 41" MAX.
33" MIN - 36" MAX
BACK WALL
39" MIN - 41" MAX.
54" MIN
12" MAX
42" MIN
7" MIN
9" MAX
T/O SEAT
TOILET PAPER
17" MIN
19" MAX
15" MIN
48" MAX
SIDE WALL
CLEAR FLOOR SPACE
56" MIN
CLEAR FLOOR SPACE AT WATER CLOSET
2" MIN
6" MAX
36" MIN
12" for ages 3-8
PROVIDE BLOCKING AT GRAB BARS
BACK WALL
PROVIDE BLOCKING AT GRAB BARS
54" MIN
12" MAX
42" MIN
TOILET PAPER
SIDE WALL
MIRROR
EXPOSED PIPES SHALL BE INSULATED OR OTHERWISE PROTECTED AGAINST CONTACT
40" MAX
34" MAX
29" MIN
27" MIN
8" MIN
17" MIN
6" MAX
TOE CLEAR
SECTION THROUGH LAVATORY
CLEAR FLOOR SPACE
30" MIN
48" MIN
CLEAR FLOOR SPACE AT LAVATORY
MIN. TURNING DIAMETER
5' - 7"
MIRROR
KNEE CLEARANCE NOT REQUIRED FOR CHILDREN 5 AND YOUNGER
PROVIDE ADA COMPLIANT PRE-MOLDED VINYL APRON AT CHILD HAND SINKS IN CLASSROOMS
SECTION THROUGH LAVATORY
60" MIN
CLEAR FLOOR SPACE
CLEAR FLOOR SPACE AT WATER CLOSET
13.5" MIN
17" MAX
SECTION THROUGH URINAL
CLEAR FLOOR SPACE
30" MIN
48" MIN
CLEAR FLOOR SPACE AT URINAL
17-19
9 MIN
27 MIN
36 MAX
8 MIN
6 MAX
DRINKING FOUNTAIN

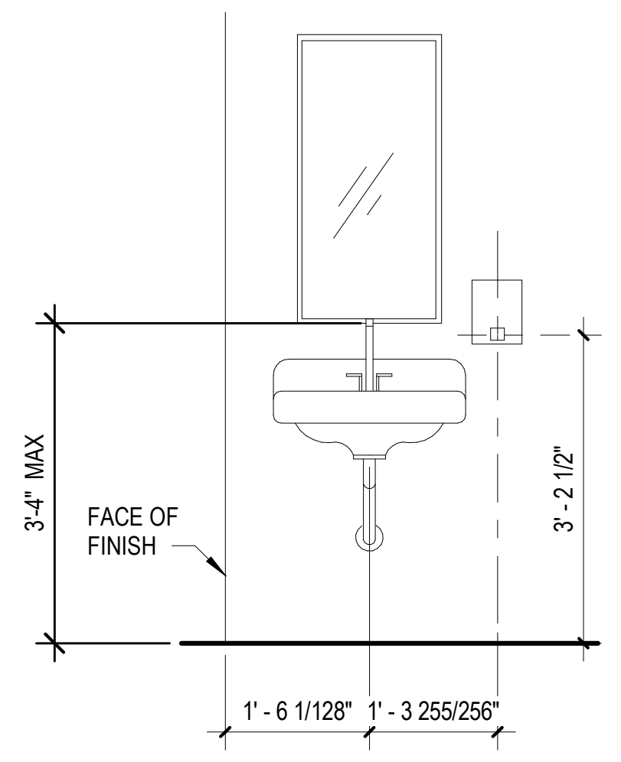
STANDARD TOILET ROOM ACCESSIBILITY DETAILS

THESE DETAILS REPRESENT STANDARDS AS SHOWN AND ACCEPTED BY THE AMERICAN DISABILITIES ACT (ADA, AND ANSI A117.1) AND SHOULD BE USED AS A GUIDE FOR THE SCOPE AND TECHNICAL REQUIREMENTS FOR THIS PROJECT.

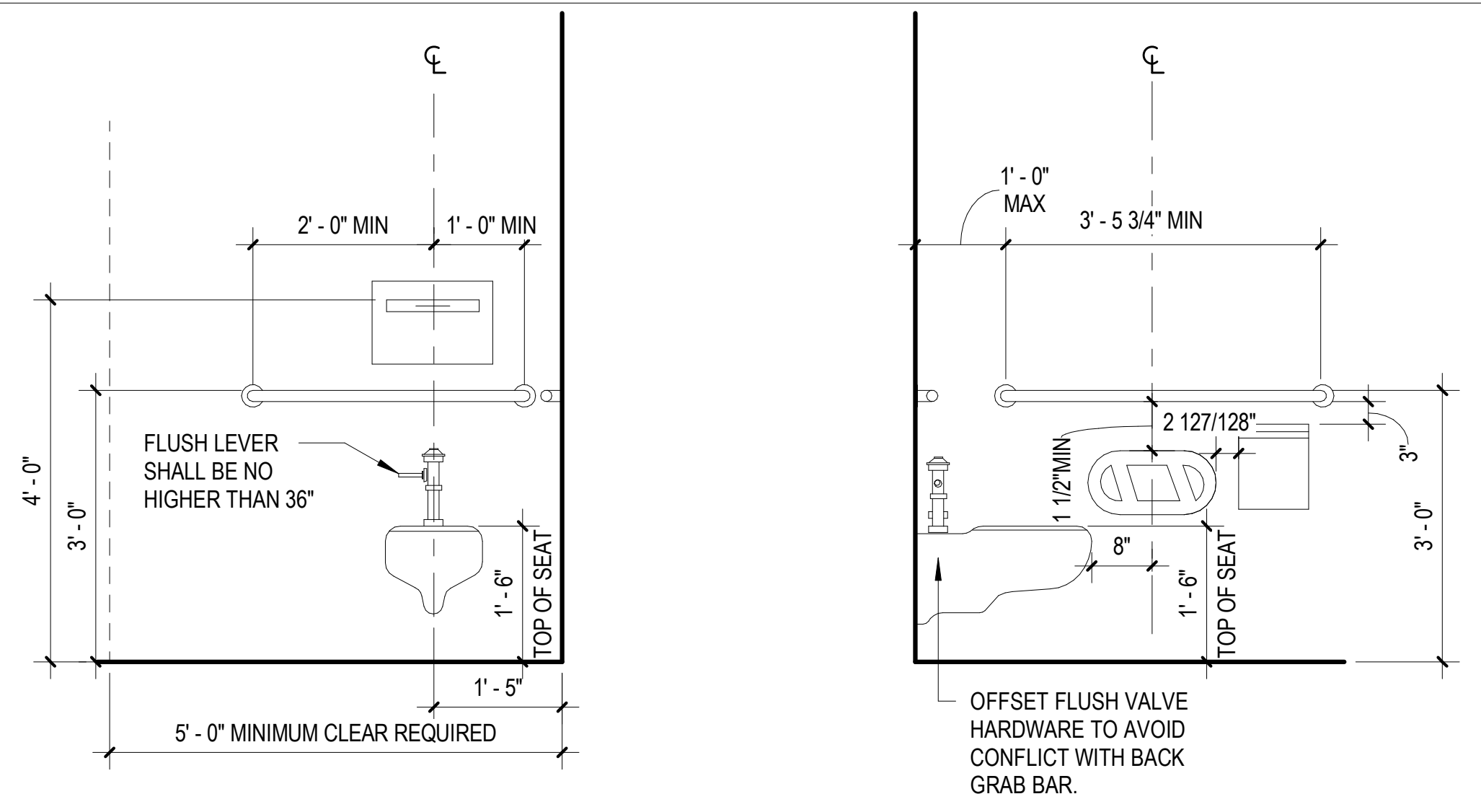
STANDARD TOILET ROOM ACCESSIBILITY DETAILS

THESE DETAILS REPRESENT STANDARDS AS SHOWN AND ACCEPTED BY THE AMERICAN DISABILITIES ACT (ADA) AND SHOULD BE USED AS A GUIDE FOR THE SCOPE AND TECHNICAL REQUIREMENTS FOR THIS PROJECT.

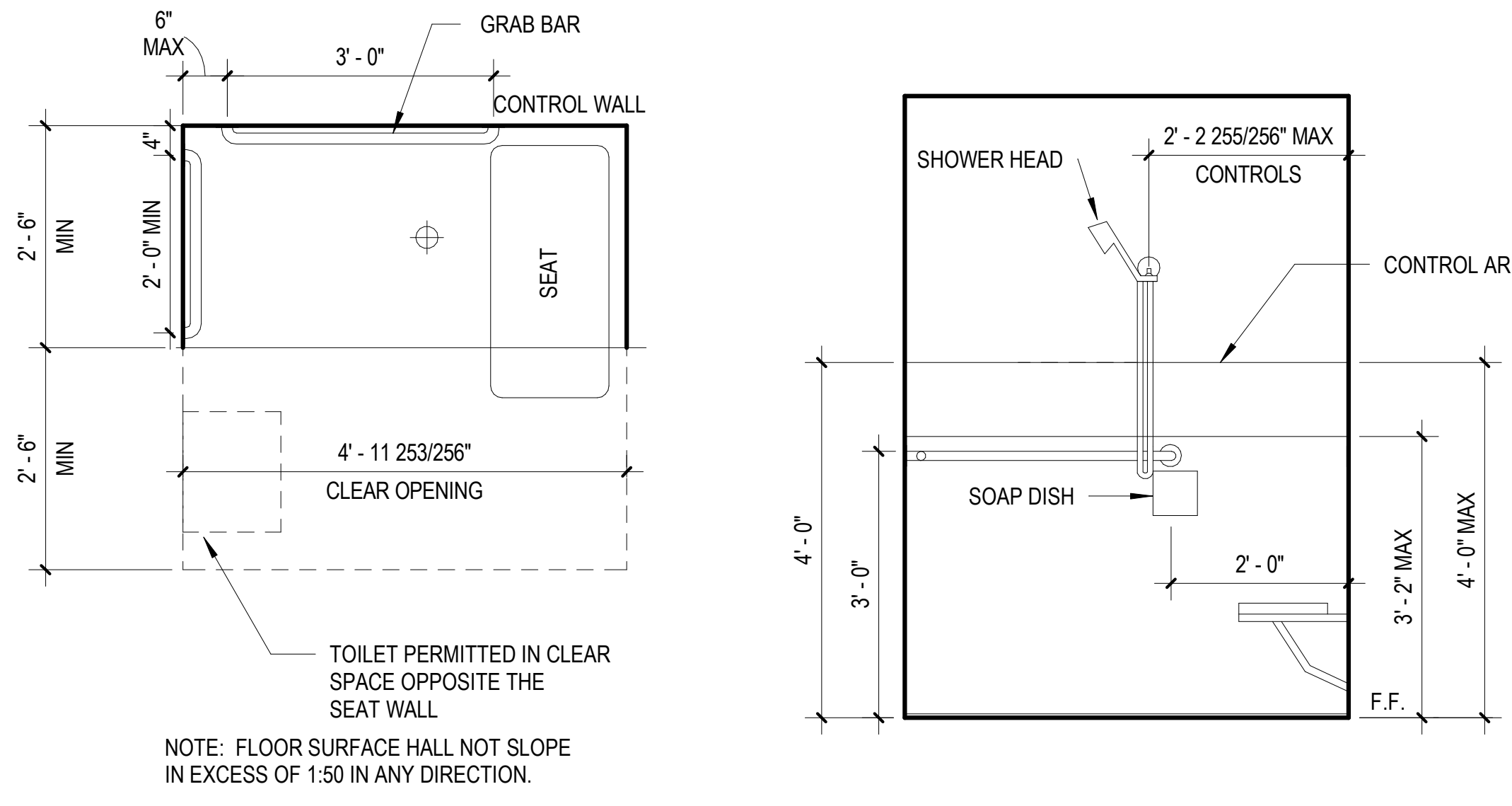
ADA ACCESSIBILITY GUIDELINES


3'-4" MAX
FACE OF FINISH
3' - 2 1/2"
1' - 6 1/128"
1' - 3 255/256"

ACCESSIBLE SINK


2' - 0" MIN
1' - 0" MIN
FLUSH LEVER SHALL BE NO HIGHER THAN 36"
4' - 0"
3' - 0"
1' - 6"
TOP OF SEAT
1' - 5"
5' - 0" MINIMUM CLEAR REQUIRED
1' - 0" MAX
3' - 5 3/4" MIN
2 127/128"
1 1/2" MIN
3"
3' - 0"
8"
1' - 6"
TOP OF SEAT
OFFSET FLUSH VALVE HARDWARE TO AVOID CONFLICT WITH BACK GRAB BAR.

ACCESSIBLE TOILET


6" MAX
3' - 0"
GRAB BAR
CONTROL WALL
4"
2' - 6" MIN
2' - 0" MIN
SEAT
2' - 6" MIN
4' - 11 253/256"
CLEAR OPENING
TOILET PERMITTED IN CLEAR SPACE OPPOSITE THE SEAT WALL
NOTE: FLOOR SURFACE HALL NOT SLOPE IN EXCESS OF 1:50 IN ANY DIRECTION.
PLAN
SHOWER HEAD
2' - 2 255/256" MAX
CONTROLS
CONTROL AREA
SOAP DISH
2' - 0"
4' - 0"
3' - 0"
3' - 2" MAX
4' - 0" MAX
F.F.
ELEVATION

ACCESSIBLE ROLL-IN SHOWER

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PAULSON
architects
Roswell . Nashua

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

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17 APR 25	95% REVIEW	AG	ZS
25 APR 25	ISSUE FOR PERMIT		

Revisions		

Date: 25 APRIL 2025
Project No.: 2024509.00

Sheet Title
ACCESSIBILITY REQUIREMENTS

Sheet No.
A-006

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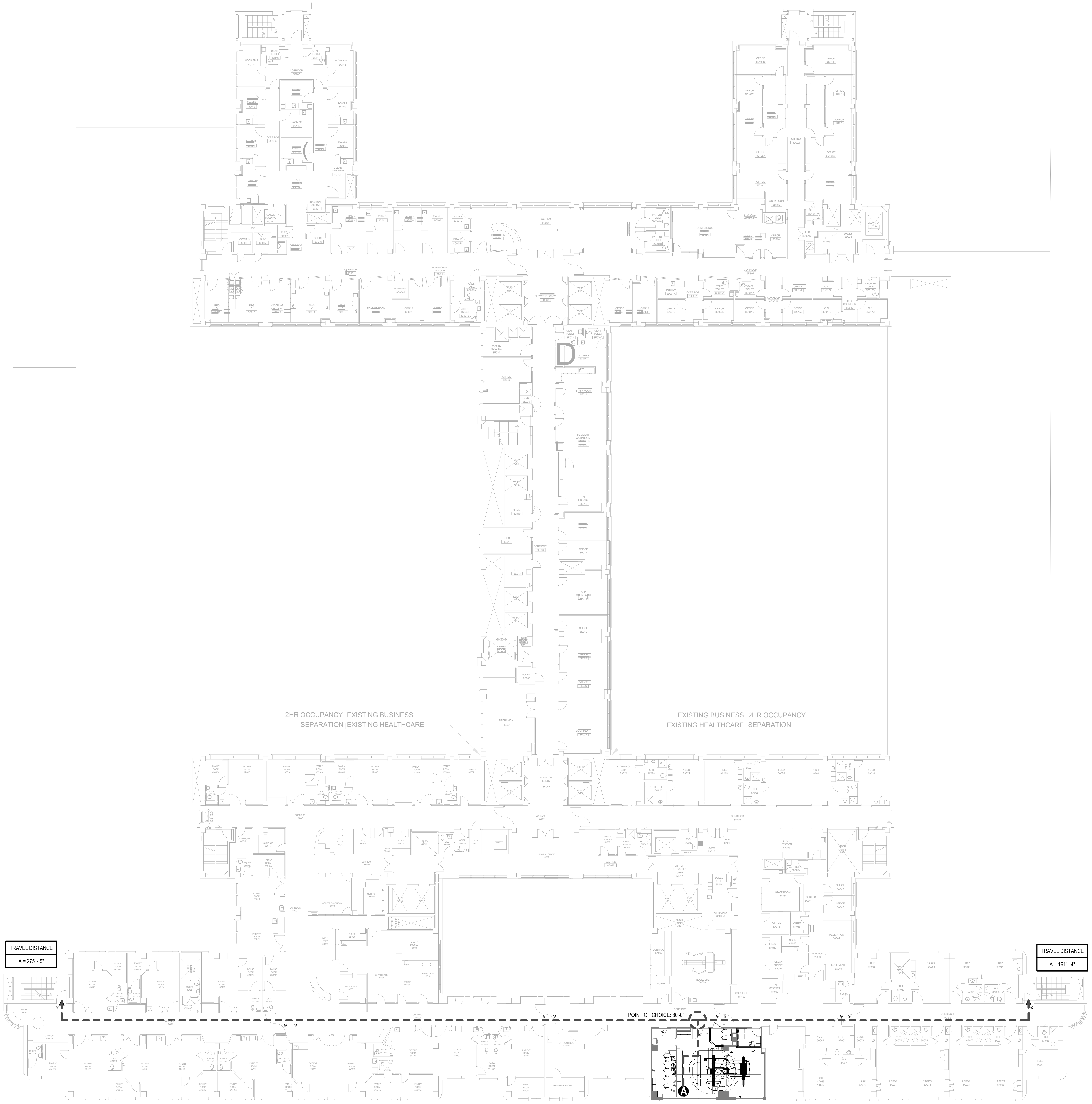

D
2HR OCCUPANCY EXISTING BUSINESS
SEPARATION EXISTING HEALTHCARE
EXISTING BUSINESS 2HR OCCUPANCY
EXISTING HEALTHCARE SEPARATION
TRAVEL DISTANCE
A = 275' - 5"
TRAVEL DISTANCE
A = 161' - 4"
POINT OF CHOICE: 30'-0"
A

1 A-030 LIFE SAFETY PLAN
1/16" = 1'-0"

PROJECT NORTH

LIFE SAFETY PLAN GENERAL NOTES

1. BUSINESS EGRESS TRAVEL DISTANCE IS 300' - 0" WITH SPRINKLER PER IBC 1016.1 & LSC 39.2.6, EXCEPTION 1.
2. CONTRACTOR TO VERIFY EXISTING PARTITION IS CONSTRUCTED AS TO SATISFY THE WALL RATING AS INDICATED ON LIFE SAFETY PLAN.
3. NFPA 10 TABLE 6.2.1.1 FIRE EXTINGUISHER SIZE AND PLACEMENT FOR CLASS "A" HAZARDS INDICATE MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER IS 75 FT.

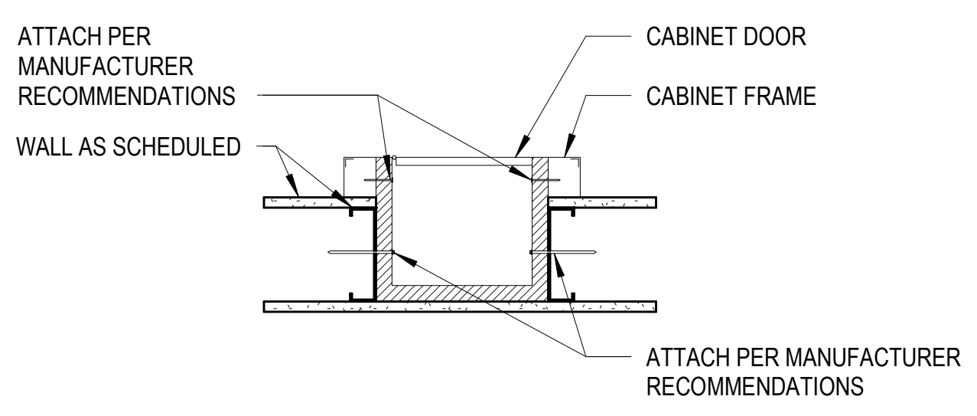
LIFE SAFETY PLAN LEGEND

SYMBOL	DESCRIPTION
⊗	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
▭ F.E.C.	DENOTES SEMI-RECESSED FIRE EXTINGUISHER CABINET AND 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
▭ F.E.C.	DENOTES RECESSED FIRE EXTINGUISHER CABINET AND 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
⊗	EXIT LIGHT
← ⊗	DIRECTIONAL EXIT LIGHT
##	DOOR RATING (IN MINUTES)
H	HOLD OPEN
A	AUTOMATIC DOOR
AC	ACCESS CONTROL
HE	HORIZONTAL EXIT
– – –	TRAVEL DISTANCE
◌	POINT OF CHOICE
♿	WHEELCHAIR TURNING DIAMETER
▬	ONE-HOUR FIRE RESISTANT RATED WALL CONSTRUCTED TIGHT TO UNDERSIDE OF STRUCTURE ABOVE
▬	TWO-HOUR FIRE RESISTANT RATED WALL CONSTRUCTED TIGHT TO UNDERSIDE OF STRUCTURE ABOVE
▬	THREE-HOUR FIRE RESISTANT RATED WALL CONSTRUCTED TIGHT TO UNDERSIDE OF STRUCTURE ABOVE
▬	SMOKE PARTITION CONSTRUCTED TIGHT TO UNDERSIDE OF STRUCTURE ABOVE

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

NOT ALL FIRE EXTINGUISHER SHOWN ABOVE ARE USED, SEE PLAN.

FIRE EXTINGUISHER CABINET DETAIL


ATTACH PER MANUFACTURER RECOMMENDATIONS
WALL AS SCHEDULED
CABINET DOOR
CABINET FRAME
ATTACH PER MANUFACTURER RECOMMENDATIONS

PARTITION LEGEND

▬	EXISTING PARTITIONS TO REMAIN
┄	EXISTING PARTITIONS TO BE DEMOLISHED
▭	NEW PARTITIONS
▨	AREA NOT IN SCOPE

RANDALL
PAULSON
architects
Roswell . Nashua

ALEX S. PAULSON
CERTIFICATE NO. 7369
25 APRIL 2025

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

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17 APR 25	95% REVIEW	AG	ZS
25 APR 25	ISSUE FOR PERMIT		

Revisions		

Date
25 APRIL 2025

Project No.
2024509.00

Sheet Title
LIFE SAFETY PLAN

Sheet No.
A-030

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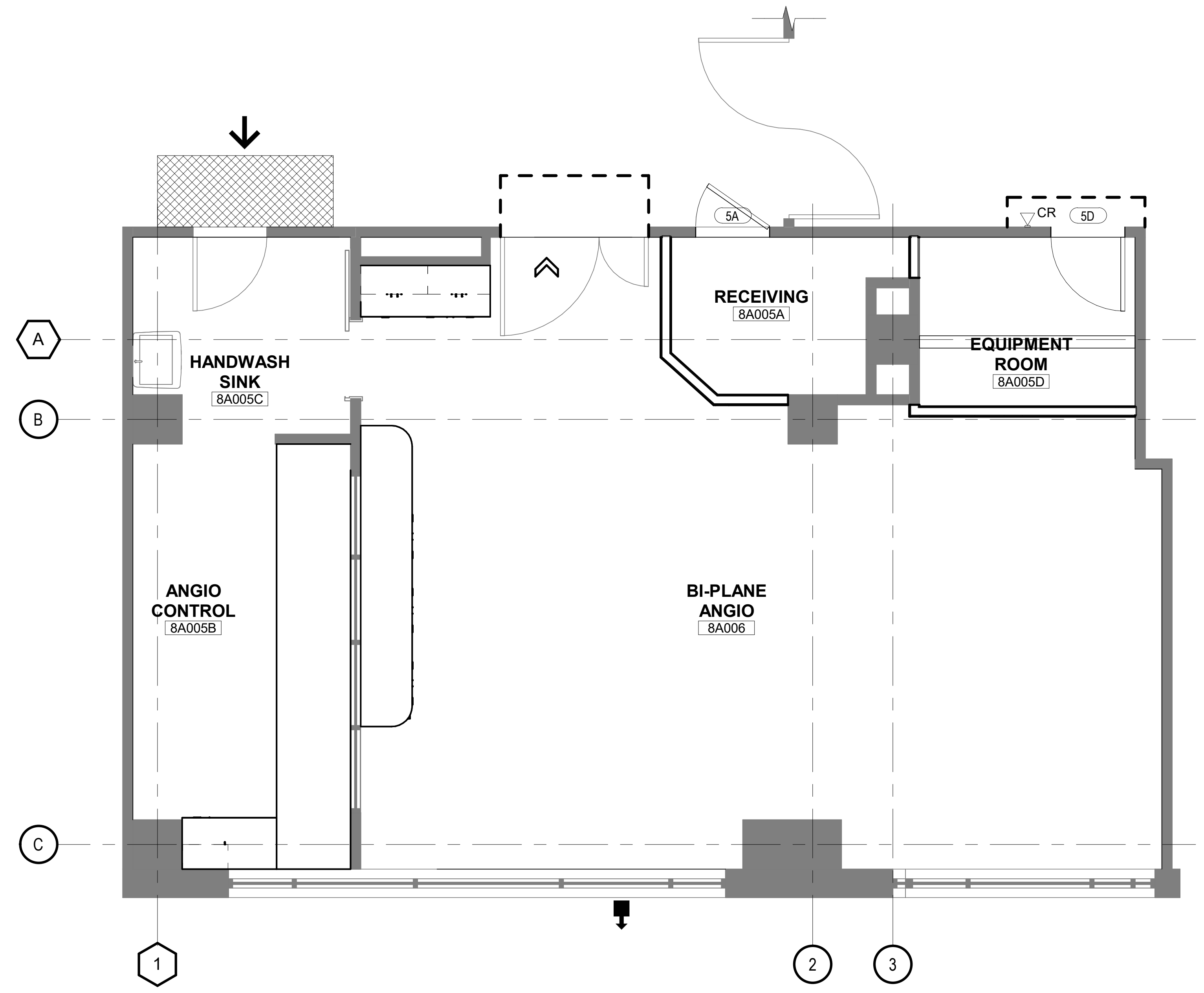
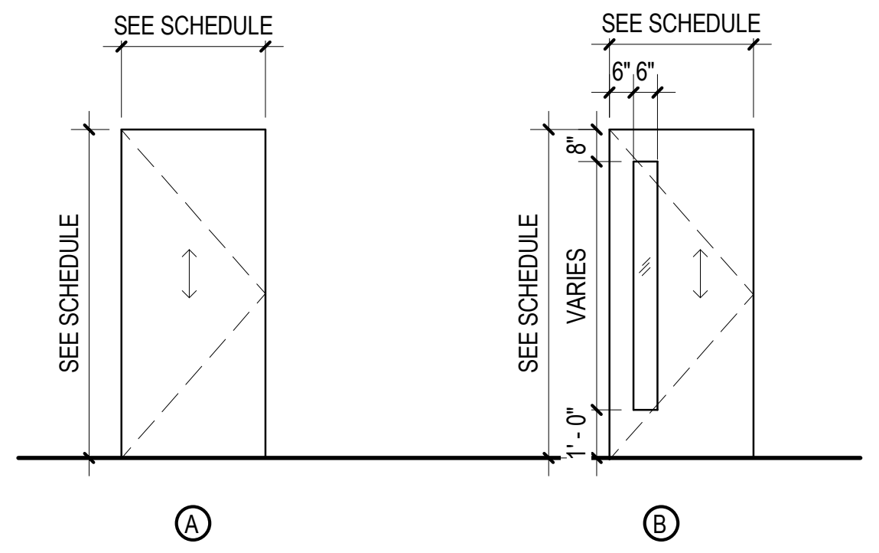
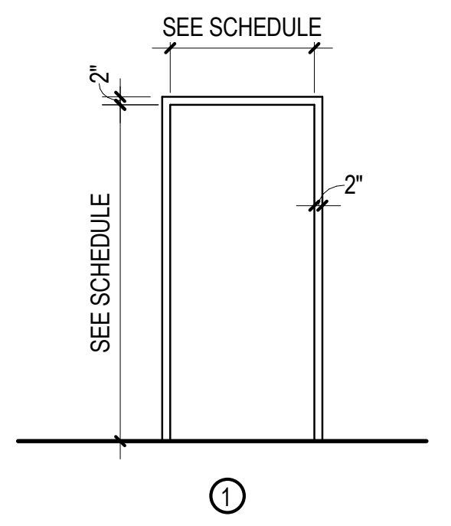

A
B
C
1
2
3
HANDWASH SINK
8A005C
RECEIVING
8A005A
5A
CR
5D
EQUIPMENT ROOM
8A005D
ANGIO CONTROL
8A005B
BI-PLANE ANGIO
8A006

PROJECT NORTH

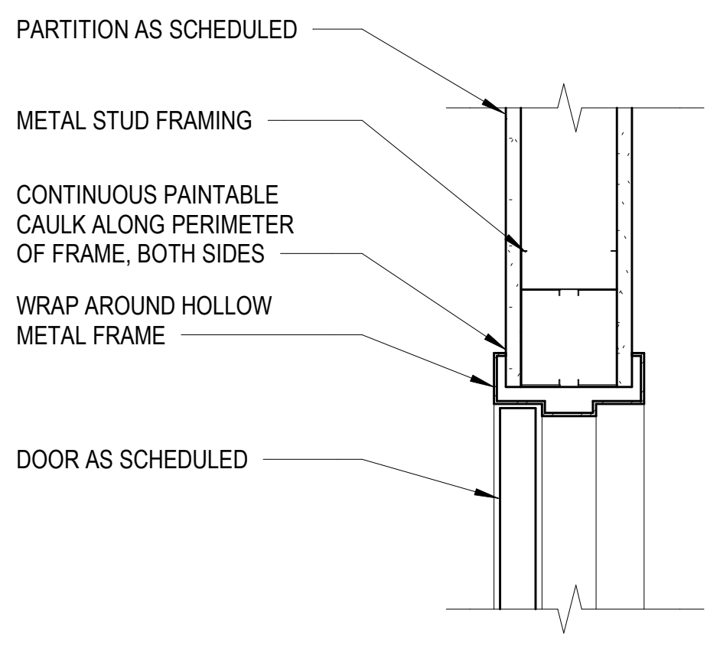
1
A-070
OVERALL ICRA PLAN
1/4" = 1'-0"


SEE SCHEDULE
SEE SCHEDULE
SEE SCHEDULE
SEE SCHEDULE
6"
6"
8"
VARIES
1' - 0"
A
B

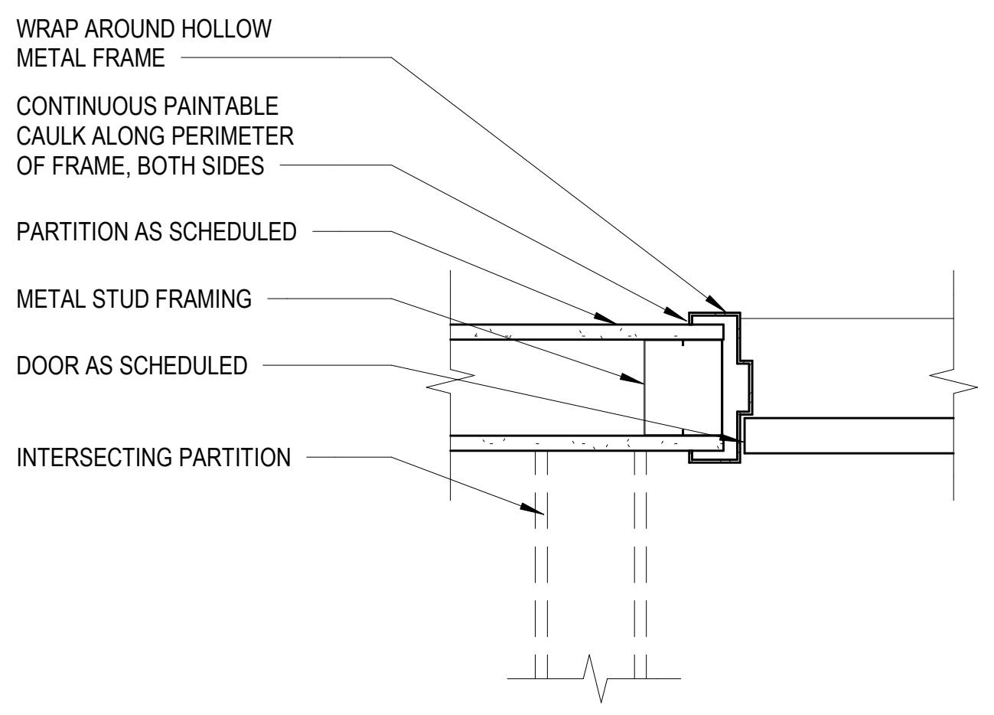
2
A-070
DOOR TYPES
1/4" = 1'-0"


SEE SCHEDULE
2"
2"
SEE SCHEDULE
1

3
A-070
FRAME TYPES
1/4" = 1'-0"


PARTITION AS SCHEDULED
METAL STUD FRAMING
CONTINUOUS PAINTABLE CAULK ALONG PERIMETER OF FRAME, BOTH SIDES
WRAP AROUND HOLLOW METAL FRAME
DOOR AS SCHEDULED

4
A-070
DETAIL - H.M. HEAD @ PARTITION WALL
1 1/2" = 1'-0"


WRAP AROUND HOLLOW METAL FRAME
CONTINUOUS PAINTABLE CAULK ALONG PERIMETER OF FRAME, BOTH SIDES
PARTITION AS SCHEDULED
METAL STUD FRAMING
DOOR AS SCHEDULED
INTERSECTING PARTITION

5
A-070
DETAIL - H.M. JAMB @ PARTITION WALL
1 1/2" = 1'-0"

SCHEDULE - DOOR

NUMBER	DESCRIPTION	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	HARDWARE SET	RATING	REMARKS
5D	EQUIPMENT ROOM	A	3' - 0"	7' - 0"	2"	SCWD	STAIN	1	HM	PAINT	4/A-070	5/A-070	-	1	-	
5A	RECEIVING	B	3' - 0"	7' - 0"	2"	SCWD	STAIN	1	HM	PAINT	4/A-070	5/A-070	-	2		

INFECTION PREVENTION GENERAL NOTES

1. CONSTRUCTION ZONE TO MAINTAIN NEGATIVE PRESSURE: HAVING A DESIGN STATIC PRESSURE A MINIMUM OF 0.01 INCHES GREATER THAN THE SURROUNDING SPACES.
2. ERECT AND MAINTAIN DUSTPROOF PARTITIONS AND TEMPORARY ENCLOSURES TO LIMIT DUST AND DIRT MIGRATION AND TO SEPARATE AREAS FROM FUMES AND NOISE. PARTITIONS TO BE NOT LESS THAN 4 INCH (NOMINAL) METAL STUDS AND ONE LAYER 5/8 INCH GYPSUM WALLBOARD WITH JOINTS TAPED ON BOTH SIDES. PROVIDE PAINT ON GWB IN AREAS EXPOSED TO PUBLIC OR OWNER'S OCCUPIED AREAS.
3. WHERE DUCTWORK, CONDUIT AND OTHER SERVICES MAKE WALL TEMPORARY CONSTRUCTION IMPOSSIBLE, PROVIDE 2 LAYERS OF 3 MIL POLYETHYLENE SHEETS INSIDE AND OUTSIDE TEMPORARY ENCLOSURE ABOVE THE CEILING LINE.
4. INSULATE PARTITIONS TO PROVIDE NOISE PROTECTION TO OCCUPIED AREAS.
5. SEAL JOINTS AND PERIMETER. EQUIP PARTITIONS WITH DUSTPROOF DOORS AND SECURITY LOCKS.
6. PROTECT AIR-HANDLING EQUIPMENT.
7. WEATHERSTRIP OPENINGS.
8. UNTIL FIRE-PROTECTION NEEDS ARE SUPPLIED BY PERMANENT FACILITIES, INSTALL AND MAINTAIN TEMPORARY FIRE PROTECTION FACILITIES OF TYPES NEEDED TO PROTECT AGAINST REASONABLY PREDICTABLE AND CONTROLLABLE FIRE LOSSES. COMPLY WITH NFPA 241.
9. REMOVE TEMPORARY FACILITY WHEN IT'S NEED FOR SERVICE HAS ENDED OR REPLACED BY AUTHORIZED USE OF A PERMANENT FACILITY.
10. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

INFECTION PREVENTION LEGEND

SYMBOL	DESCRIPTION
☐	PROJECT AREA
- - -	TEMPORARY BARRIER
—	EXISTING WALL AS BARRIER
▨	ANTEROOM
←	CONSTRUCTION ENTRANCE
◀■	EXHAUST FOR NEGATIVE PRESSURE
⌃	EMERGENCY EGRESS ONLY

GENERAL DOOR AND FRAME NOTES

1. ALL DOOR HARDWARE SHALL BE HANDICAP ACCESSIBLE, COMPLYING WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. WHERE DISCREPANCIES OCCUR BETWEEN THE DOOR SCHEDULED NOTES AND HARDWARE SPECIFICATIONS, NOTIFY THE ARCHITECT OF DISCREPANCIES TO RECEIVE DIRECTION ON HOW TO PROCEED.
3. ALL DOORS TO HAVE SILENCERS.
4. HARDWARE TO MATCH BUILDING STANDARD.
5. TIE MAGNETIC LOCK INTO FIRE ALARM.
6. DOOR STAIN TO BE CHOCOLATE, CH18 FOR VT INDUSTRIES SWING DOORS.
7. DOOR TRIM TO BE P-2.

HARDWARE SCHEDULE

Hardware Set No. 1 - TYP. INTERIOR DOOR W/ MAGNETIC LOCK

(1) CARD READER
(1) MAGNETIC LOCK
(1) OVERHEAD STOP
(1) CLOSER
(3) HINGES
(3) SILENCERS
(4) KICK PLATE

Hardware Set No. 2 - TYP. INTERIOR DOOR W/ PASSAGE LOCK

(1) PASSAGE LOCK
(1) OVERHEAD STOP
(1) CLOSER
(3) HINGES
(3) SILENCERS
(2) KICK PLATE

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PAULSON
architects
Roswell . Nashua

ALEX S. PAULSON
CERTIFICATE NO. 7180
25 APRIL 2025

Roswell Mill
85-A Mill Street, Suite 200
Roswell, Georgia 30075
770.650.7558
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Revisions		

Date
25 APRIL 2025

Project No.
2024509.00

Sheet Title
INFECTION CONTROL AND DOOR SCHEDULE

Sheet No.
A-070

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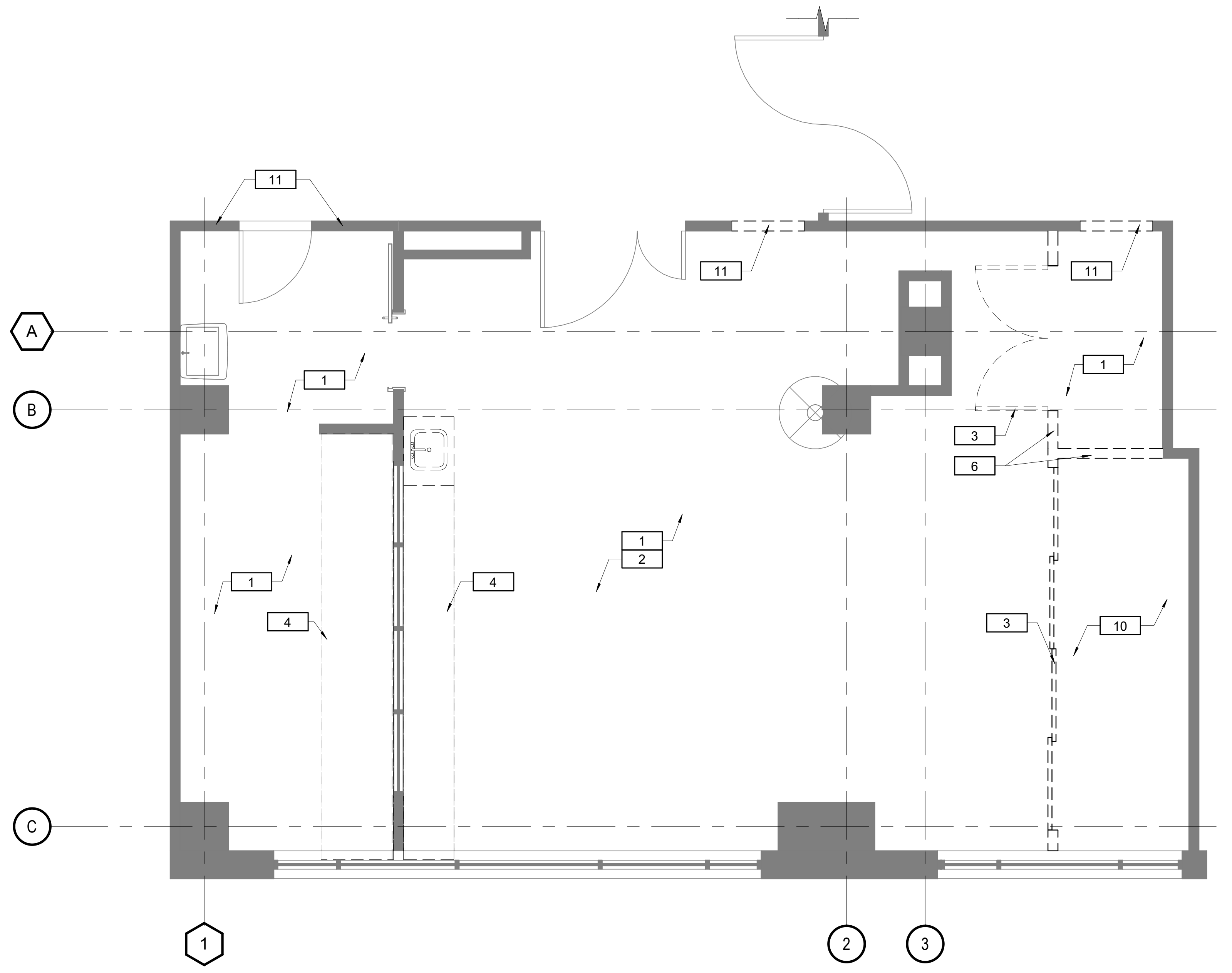
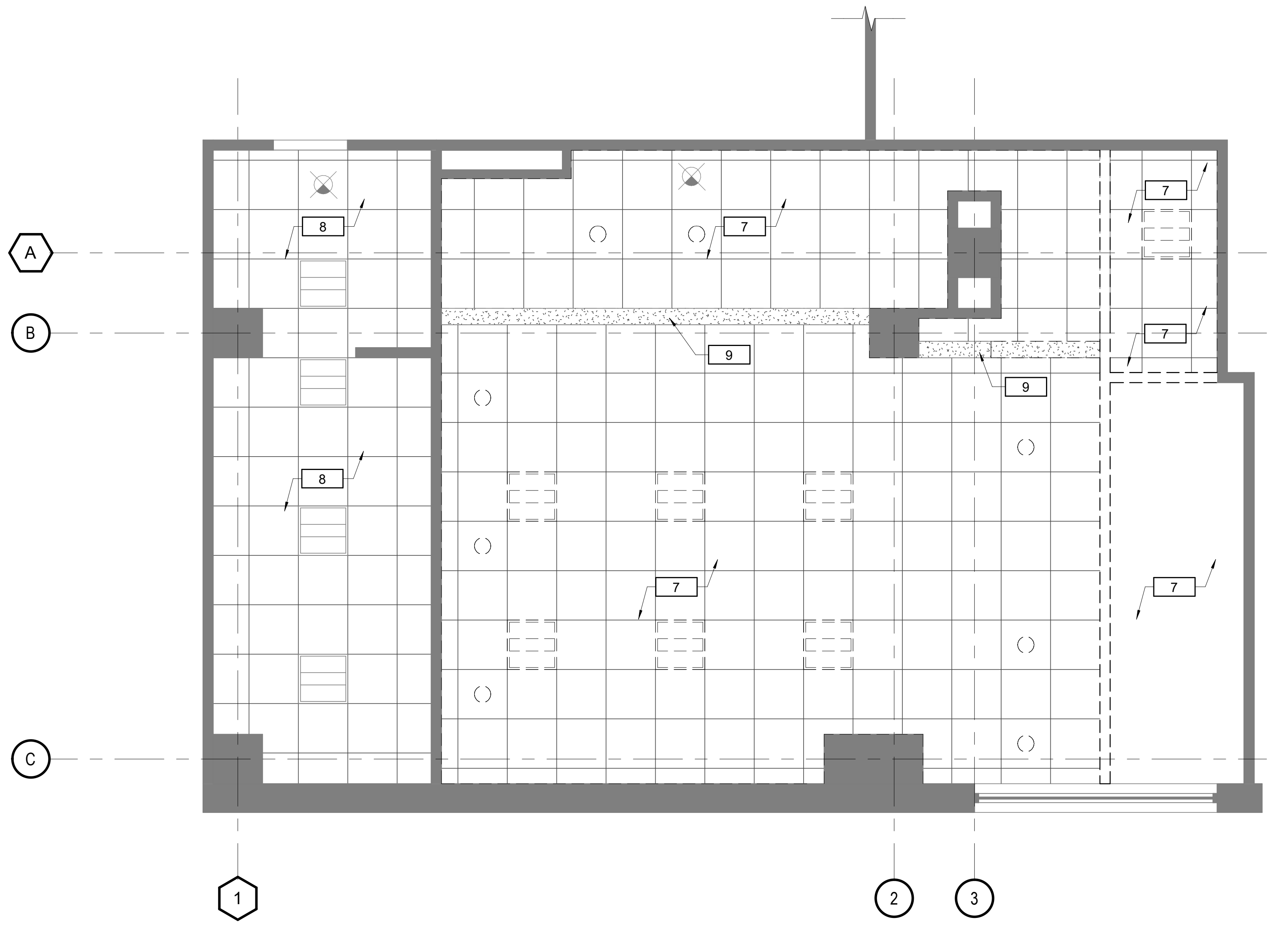


1
A-080
EXISTING AND DEMOLITION FLOOR PLAN
1/4" = 1'-0"

PROJECT NORTH



2
A-080
EXISTING AND DEMO REFLECTED CEILING PLAN
1/4" = 1'-0"

PROJECT NORTH

DEMOLITION PLAN GENERAL NOTES

1. 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. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS.
2. 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 ARCHITECT'S AND OWNER'S REPRESENTATIVE OF SAID CONDITIONS BEFORE THEY ARE DISTURBED.
3. 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.
4. 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.
5. THE OWNER AND AFFECTED TENANT SHALL BE NOTIFIED NO LESS THAN TWO BUSINESS DAYS PRIOR TO SHUTDOWN OF ANY SHARED UTILITIES, INCLUDING BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND/OR ELECTRICAL SYSTEMS. MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
6. 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, VIBRATION, ODORS, AND SECURITY BETWEEN CONSTRUCTION AREAS AND OCCUPIED AREAS OR PUBLIC AREAS SHALL BE ERECTED AND MAINTAINED BY THE CONTRACTOR.
7. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN 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.
8. 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 PRIOR TO SUBSTANTIAL COMPLETION.
9. EXISTING ITEMS OR MATERIAL TO BE SALVAGED SHALL BE REMOVED, CLEANED, AND STORED AT LOCATION PROVIDED BY OWNER OR TEMPORARILY STORED AND RE-USED AS INDICATED 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 IN A MANNER TO MAINTAIN RATINGS FOR RE-USE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATION OF MATERIAL WITHOUT PERMANENT DAMAGE OR MARRING. NEW MATERIAL SHALL BE PROVIDED WHERE THE CONTRACTOR IS UNABLE TO PROTECT EXISTING MATERIAL FROM PERMANENT DAMAGE OR MARRING.
11. 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.
12. 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, UNLESS OTHERWISE NOTED. RELOCATE AS REQUIRED IN NEW PLAN.
13. 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.
14. EXISTING EXTERIOR WALL INSULATION SHALL BE LEFT IN PLACE OR SHALL BE REPLACED WITH NEW MATERIAL OF EQUAL OR GREATER INSULATING VALUE UNLESS OTHERWISE NOTED.
15. 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.
16. ALL INFILL OR REPLACEMENT WORK IS TO MATCH EXISTING CONDITIONS IN MATERIALS, CONSTRUCTION, PERFORMANCE, RATING AND FINISH, UNLESS SPECIFICALLY NOTED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
17. EXISTING CONDITIONS DISTURBED BY NEW WORK MUST BE RESTORED WITH EQUAL OR ARCHITECT-APPROVED COMPARABLE NEW MATERIAL TO A CLEAN NEW CONDITION. ALL NEW MATERIALS SHALL MATCH EXISTING UNLESS OTHERWISE NOTED.
18. 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.
19. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH TENANT AND SHALL VERIFY ALL TENANT REQUESTS WITH OWNERS' REPRESENTATIVE PRIOR TO PERFORMING SUCH REQUESTS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF IRREGULARITIES IN FLOOR FINISH AND/OR ELEVATION THAT BECOME APPARENT DUE TO DEMOLITION.
21. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND REPLACE BROKEN CEILING TILES AND GRIDS, AND OTHERWISE THAT MAY BE INCLUDED.
22. REMOVE ALL OBSOLETE PLUMBING, MECHANICAL, AND ELECTRICAL EQUIPMENT IN THEIR ENTIRETY THROUGHOUT 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 OR COMPARABLE NEW CONSTRUCTION AND AS INDICATED IN CONTRACT DOCUMENTS. COORDINATE WITH NEW CONSTRUCTION.

DEMOLITION PLAN NOTES

#

1. REMOVE ALL EXISTING DEBRIS, MATERIALS, OR OTHERWISE THAT MAY BE ATTACHED TO THE WALLS OR CONTAINED WITHIN OR AROUND THE BUILDING. .
2. REMOVE EXISTING FLOORING, FLOOR BASE. PATCH AND REPAIR FLOORING AND WALL AS REQUIRED TO RECEIVE NEW FINISH.
3. REMOVE EXISTING DOOR, DOOR HARDWARE AND DOOR FRAME IN A PERMANANT MANNER.
4. REMOVE EXISTING MILLWORK INCLUSIVE OF ALL UTILITIES AND FIXTURES. TERMINATE AND CAP ALL ABANDONED UTILITIES ABOVE THE CEILING OR BELOW THE FLOOR IN A PERMANENT MANNER.
5. REMOVE EXISTING PLUMBING FIXTURE. AREA TO RECIEVE NEW SINK IN SAME LOCATION.
6. REMOVE EXISTING WALL ASSEMBLY IN ITS ENTIRETY. INCLUDING DOORS, ELECTRICAL, MECHANICAL, PLUMBING OR OTHERWISE THAT MAY BE CONTAINED WITHIN. TERMINATE ALL ABANDONED UTILITIES BACK TO THE SOURCE IN A PERMANENT MANNER.
7. REMOVE EXISTING CEILING ASSEMBLY IN ITS ENTIRETY, SAVE EXISTING FIXTURES TO BE RELOCATED. SPACE TO RECEIVE NEW CEILING TO RECEIVE NEW CEILING AND EXISTING LIGHTS.
8. EXISTING CEILING ASSEMBLY, LIGHTS, OTHER OTHERWISE THAT MAY BE CONTAINED WITHIN TO REMAIN.
9. PORTION EXISTING CEILING SOFFIT TO REMAIN, REMOVE PORTION TO ALLOW FOR NEW WALLS CEILING AS NEEDED.
10. REMOVE ALL EXISTING EQUIPMENT IN EQUIPMENT ROOM OR OTHERWISE THAT MAY BE ATTACHED TO THE WALLS OR THE FLOOR INCLUSIVE OF ALL UTILITIES AND FIXTURES. TERMINATE AND CAP ALL ABANDONED UTILITIES ABOVE THE CEILING OR THE BELOW THE FLOOR IN A PERMANENT MANNER. REMOVE EXISTING RAISED SLAB TO CREATE SMOOTH EVEN FLOOR.
11. REMOVE EXISTING PORTION OF WALL ASSEMBLY IN ITS ENTIRETY. INCLUDING DOORS, ELECTRICAL, MECHANICAL, PLUMBING OR OTHERWISE THAT MAY BE CONTAINED WITHIN. TERMINATE ALL ABANDONED UTILITIES BACK TO THE SOURCE IN A PERMANENT MANNER.

PARTITION LEGEND

▬	EXISTING PARTITIONS TO REMAIN
┄	EXISTING PARTITIONS TO BE DEMOLISHED
▭	NEW PARTITIONS
▨	AREA NOT IN SCOPE

RANDALL
PAULSON
architects
Roswell . Nashua

ALEX S. PAULSON
CERTIFICATE NO. 7180
25 APRIL 2025

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

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ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	AG	ZS
25 APR 25	ISSUE FOR PERMIT		

Revisions

Date
25 APRIL 2025

Project No.
2024509.00

Sheet Title
DEMOLITION PLAN AND
REFLECTED CEILING PLAN

Sheet No.
A-080

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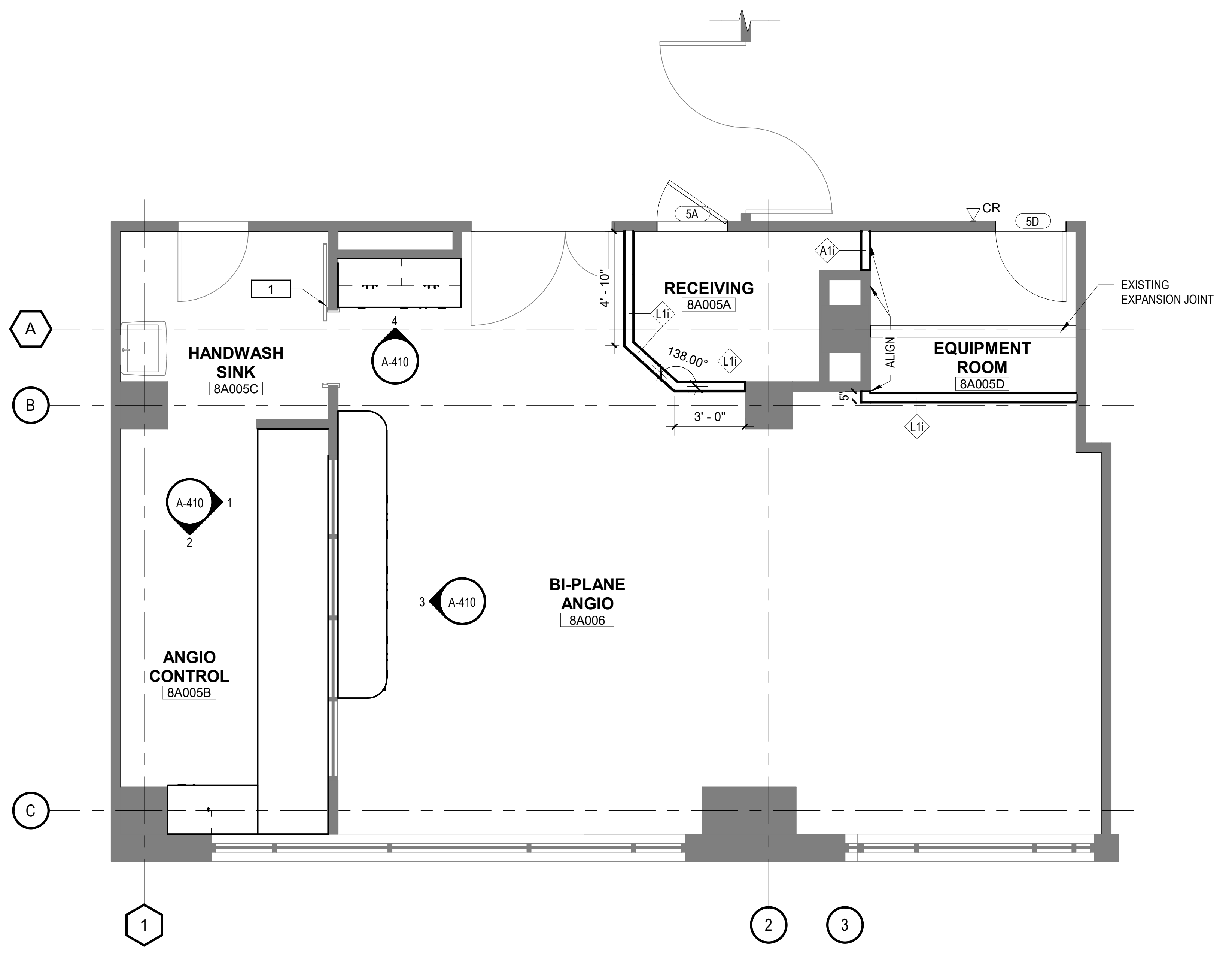
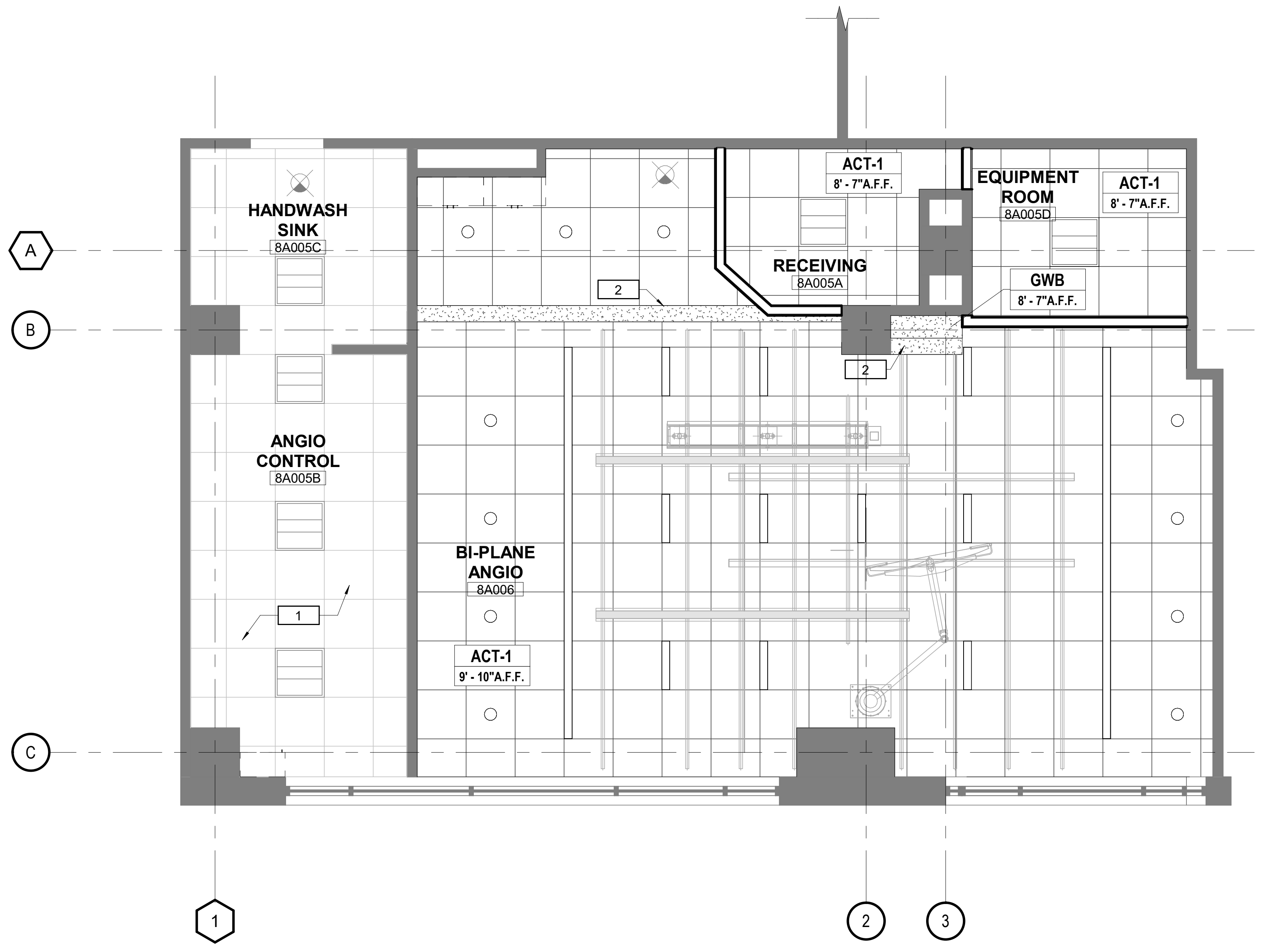

CR
5A
5D
1
4
A-410
A-410
1
2
3
A-410
A
B
C
1
2
3
HANDWASH SINK
8A005C
RECEIVING
8A005A
4' - 10"
L1i
138.00°
L1i
3' - 0"
A1i
ALIGN
5"
L1i
EQUIPMENT ROOM
8A005D
EXISTING EXPANSION JOINT
BI-PLANE ANGIO
8A006
ANGIO CONTROL
8A005B

1
A-100
OVERALL FLOOR PLAN
1/4" = 1'-0"

PROJECT NORTH


HANDWASH SINK
8A005C
ACT-1
8' - 7"A.F.F.
EQUIPMENT ROOM
8A005D
ACT-1
8' - 7"A.F.F.
RECEIVING
8A005A
2
GWB
8' - 7"A.F.F.
2
ANGIO CONTROL
8A005B
BI-PLANE ANGIO
8A006
ACT-1
9' - 10"A.F.F.
1
A
B
C
1
2
3

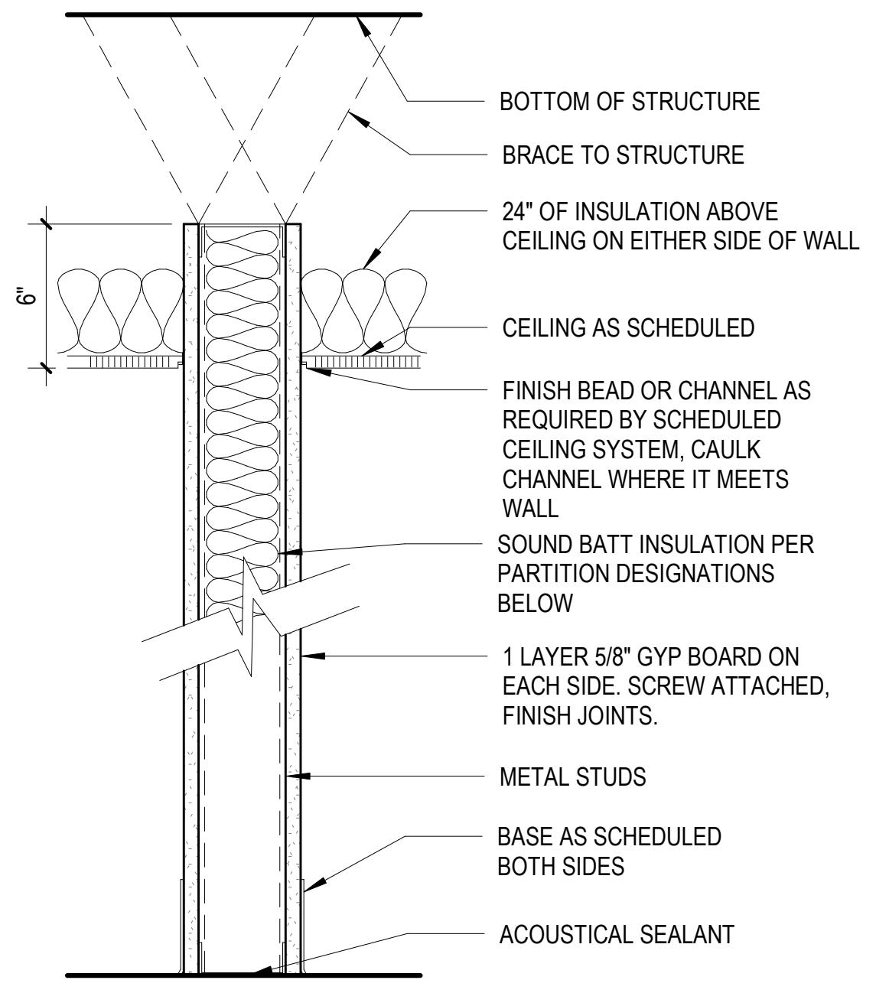
2
A-100
PROPOSED REFLECTED CEILING PLAN
1/4" = 1'-0"

PROJECT NORTH

FLOOR PLAN NOTES

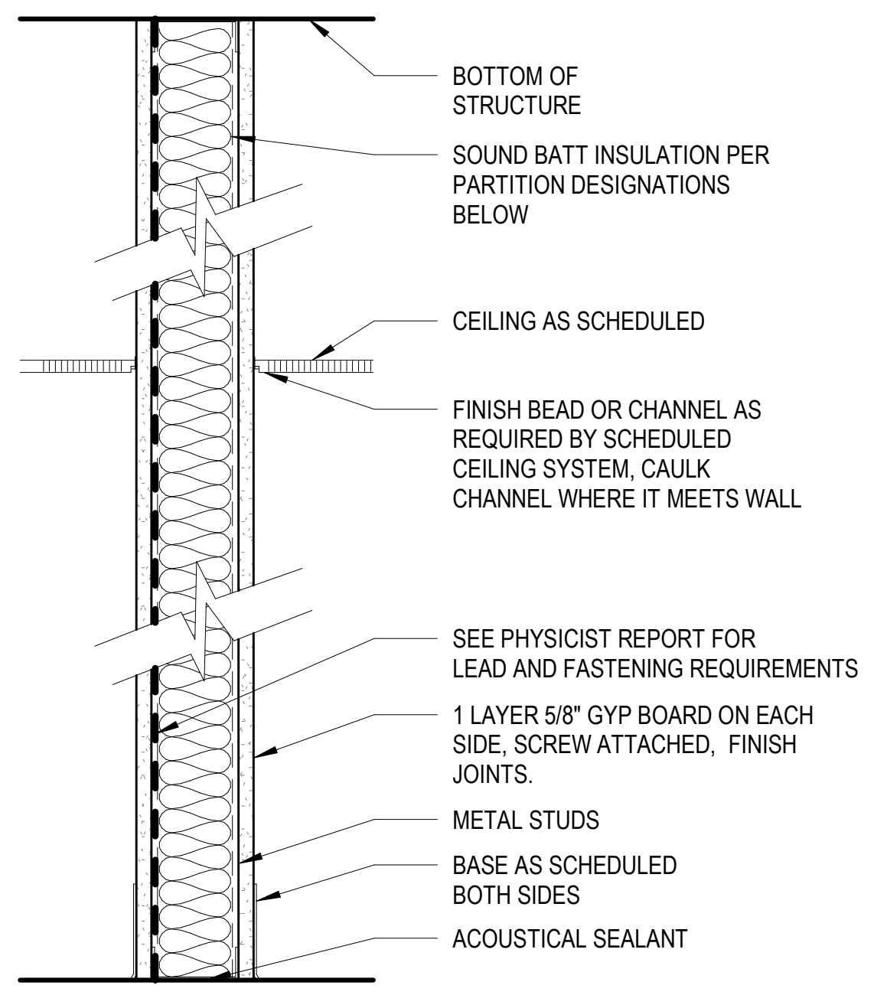
#

1. EXISTING BARN DOOR DOES NOT WORK PROPERLY. GC TO FIX OR REPLACE DOOR AS NEEDED TO LIKE NEW WORKING CONDITION.


6"
BOTTOM OF STRUCTURE
BRACE TO STRUCTURE
24" OF INSULATION ABOVE CEILING ON EITHER SIDE OF WALL
CEILING AS SCHEDULED
FINISH BEAD OR CHANNEL AS REQUIRED BY SCHEDULED CEILING SYSTEM, CAULK CHANNEL WHERE IT MEETS WALL
SOUND BATT INSULATION PER PARTITION DESIGNATIONS BELOW
1 LAYER 5/8" GYP BOARD ON EACH SIDE. SCREW ATTACHED, FINISH JOINTS.
METAL STUDS
BASE AS SCHEDULED BOTH SIDES
ACOUSTICAL SEALANT

TYPE A

- A1 3 5/8" METAL STUD @ 16" OC
- A1i 3 5/8" METAL STUD @ 16" OC WITH INSULATION


BOTTOM OF STRUCTURE
SOUND BATT INSULATION PER PARTITION DESIGNATIONS BELOW
CEILING AS SCHEDULED
FINISH BEAD OR CHANNEL AS REQUIRED BY SCHEDULED CEILING SYSTEM, CAULK CHANNEL WHERE IT MEETS WALL
SEE PHYSICIST REPORT FOR LEAD AND FASTENING REQUIREMENTS
1 LAYER 5/8" GYP BOARD ON EACH SIDE, SCREW ATTACHED, FINISH JOINTS.
METAL STUDS
BASE AS SCHEDULED BOTH SIDES
ACOUSTICAL SEALANT

TYPE L - LEADED WALL

- L1i 3 5/8" METAL STUD @ 16" OC WITH INSULATION
- L2i 6" METAL STUD @ 16" OC WITH INSULATION

FLOOR PLAN GENERAL NOTES

1. REFER TO PROJECT GENERAL NOTES FOR FURTHER INFORMATION.
2. SEE ENGINEERING DRAWINGS FOR MORE INFORMATION. COORDINATE PARTITION LAYOUT WITH MECHANICAL, ELECTRICAL, DATA, SPRINKLER AND PLUMBING WORK. NOTIFY ARCHITECT TO RESOLVE CONFLICTS OR DISCREPANCIES WITH ANY DESIGN ELEMENTS.
3. PROVIDE AUDIBLE/ VISUAL SIGNAL APPLIANCES COMPLYING WITH THE REQUIREMENTS OF THE PREVAILING NFPA 72 AND GEORGIA ACCESSIBILITY CODES, IF REQUIRED BY LOCAL CODES.
4. ALL INSULATING MATERIALS SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450 OR NO MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH PREVAILING ASTM E84 AND SBC.
5. WRAP AND INSULATE ALL PLUMBING PIPES TO MEET CODE.

PARTITION TYPES GENERAL NOTES

1. PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL WET LOCATIONS. IF TOILET ROOM WALLS ARE TO RECEIVE A TILE FINISH, PROVIDE CEMENTITIOUS BOARD.
2. EXTEND MOISTURE RESISTANT GYPSUM BOARD 3'-0" BEYOND ALL SINKS.
3. ALL BLOCKING TO BE FIRE RETARDANT TREATED.
4. FOR ALL WALLS ATTACHING TO STRUCTURE, REFERENCE SLIP TRACK DETAILS ON SHEET A-XXX.
5. ALL NEW WALLS EXCEEDING 10'-0" IN UNBRACED LENGTH SHALL BE BRACED WITH A HORIZONTAL STUD CONNECTING THE TOP OF THE WALL WITH THE ADJACENT PERPENDICULAR WALL. THE HORIZONTAL BRACING SHALL START 5'-0" FROM THE CORNER OF THE INTERSECTION OF THE TWO WALLS CREATING A 45 DEGREE ANGLE. THE HORIZONTAL BRACING SHALL BE THE SAME STUD SIZE AND GAUGE AS THE WALL STUD.
6. CONTRACTOR SHALL INSTALL SIGNS OR BY STENCILING IN CONCEALED SPACE ON ALL FIRE-RESISTANCE-RATED WALLS (AND CORRESPONDING FIRE-RESISTANT RATING) INCLUDING FIRE BARRIER WALLS, SMOKE BARRIER WALLS, FIRE PARTITIONS, FIRE WALLS, AND SHAFT ENCLOSURES. IDENTIFICATION SHALL BE SPACED NO MORE THAN TWELVE FEET APART ON CENTER WITH A MINIMUM LETTER SIZE OF THREE INCHES IN HEIGHT IN A CONTRASTING COLOR. SIGN AS FOLLOWS:

   _____ HOUR FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS

RCP GENERAL NOTES

1. REFER TO GENERAL NOTES, SPECIFICATIONS AND DEMOLITION NOTES FOR MORE INFORMATION.
2. REFER TO PARTITION PLAN LEGEND FOR PARTITIONS PENETRATING THROUGH CEILING GRID, BRACE AS REQUIRED.
3. REFER TO ENGINEERING DRAWINGS AND SPECIFICATIONS FOR HVAC AND ELECTRICAL FIXTURES AND DETAILS.
4. LIGHT FIXTURES SHOWN ON REFLECTED CEILING PLAN FOR LOCATION ONLY.
5. DIMENSIONS INDICATE STARTING POINT OF GRID. IF NOT DIMENSIONED, CENTER GRID IN ROOM OR SPACE AS SHOWN, IN BOTH DIRECTIONS.
6. COORDINATE ALL NEW ABOVE CEILING INSTALLATIONS TO PROVIDE DESIGN ELEMENTS AND FIXTURES AS SHOWN ON REFLECTED CEILING PLAN. CONFLICTS MAY REQUIRE INSTALLATION OF MECHANICAL, ELECTRICAL OR PLUMBING ELEMENTS ABOVE TYPICAL MOUNTING HEIGHTS IN PLENUM.
7. IF ACCESS DOORS OR PANELS ARE REQUIRED, SUBMIT PROPOSED TYPE, SIZE AND LOCATION TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION, IN COMPLIANCE WITH THE SPECIFICATIONS. CONFIRM FINISH WITH ARCHITECT.
8. PROVIDE HANGER FOR EACH LIGHT FIXTURE ATTACHED TO STRUCTURE.
9. ALL LIGHT FIXTURES, DIFFUSER, SPRINKLER HEADS, ELECTRICAL DEVISES, LIFE SAFETY DEVISES, ETC. IN ACOUSTICAL LAY-IN CEILINGS SHALL BE LOCATED IN THE CENTER OF THE CEILING, UNLESS NOTED OTHERWISE.
10. ALL LIGHT FIXTURES, DIFFUSERS, SPRINKLER HEADS, ETC. IN DRYWALL CEILINGS SHALL BE CENTERED IN THE CEILING SPACE, UNLESS OTHERWISE NOTED.
11. IF APPLICABLE USE CONCEALED SPRINKLER HEADS IN LOCATIONS WHERE SPRINKLER HEADS FALL ON GYP. BD. CEILING. SPRINKLER HEAD COVERS TO MATCH COLOR OF ADJACENT SURFACE WHERE COVER IS MOUNTED ON. RELOCATE AND/OR ADD SPRINKLERS AS REQUIRED FOR COMPLIANCE WITH ALL APPLICABLE CODES.
12. PAINT ALL SIDES/EDGES OF HEADERS AND SOFFITS TO MATCH ADJACENT WALL COLOR UNLESS NOTED OTHERWISE.
13. CEILING HIEGHTS TO MATCH EXISTING HEIGHTS WITHIN SPACE OR RAISE CEILINGS IF POSSIBLE.

REFLECTED CEILING PLAN FINISH LEGEND

SYMBOL	DESCRIPTION
GWB	5/8" GYPSUM BOARD CEILING
ACT-1	MANUFACTURER: ARMSTRONG PATTERN: CANYON SQ PRODUCT: 1490 GRID: PRELUDE XL COLOR: WHITE SIZE: 24 X 24 SQUARE LAY-IN

REFLECTED CEILING PLAN LEGEND

SYMBOL	IMAGE	DESCRIPTION	CONTACT
⊞		ACOUSTICAL CEILING TILE, 2'X2' SEE RCP FINISH LEGEND FOR FINISH INFORMATION	
▨		GYPSUM BOARD CEILING	
☰		2' X 2' LAY-IN LIGHT FIXTURE	
○		6" RECESSED CAN LIGHT FIXTURE	
▭		4" LINEAR LIGHT RECTANGLE TO HAVE CONTINUOUS CORNERS	

REFER TO ELECTRICAL ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.

REFLECTED CEILING PLAN NOTES

#

1. EXISTING CIELING AND LIGHTS TO REMAIN.
2. EXISTING GWB SOFFIT TO REMAIN.

PARTITION LEGEND

▬	EXISTING PARTITIONS TO REMAIN
╌	EXISTING PARTITIONS TO BE DEMOLISHED
▭	NEW PARTITIONS
▨	AREA NOT IN SCOPE

RANDALL
PAULSON
architects
Roswell . Nashua

STATE OF GEORGIA
ALEX S. PAULSON
CERTIFICATE NO. 7180
REGISTERED ARCHITECT
25 APRIL 2025

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

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80 JESSE HILL, JUNIOR DRIVE
SE
ATLANTA, GA 30303

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17 APR 25	95% REVIEW	AG	ZS
25 APR 25	ISSUE FOR PERMIT		

Revisions

Date: 25 APRIL 2025
Project No.: 2024509.00

Sheet Title
OVERALL BUILDING PLAN AND
REFLECTED CEILING PLAN

Sheet No.
A-100

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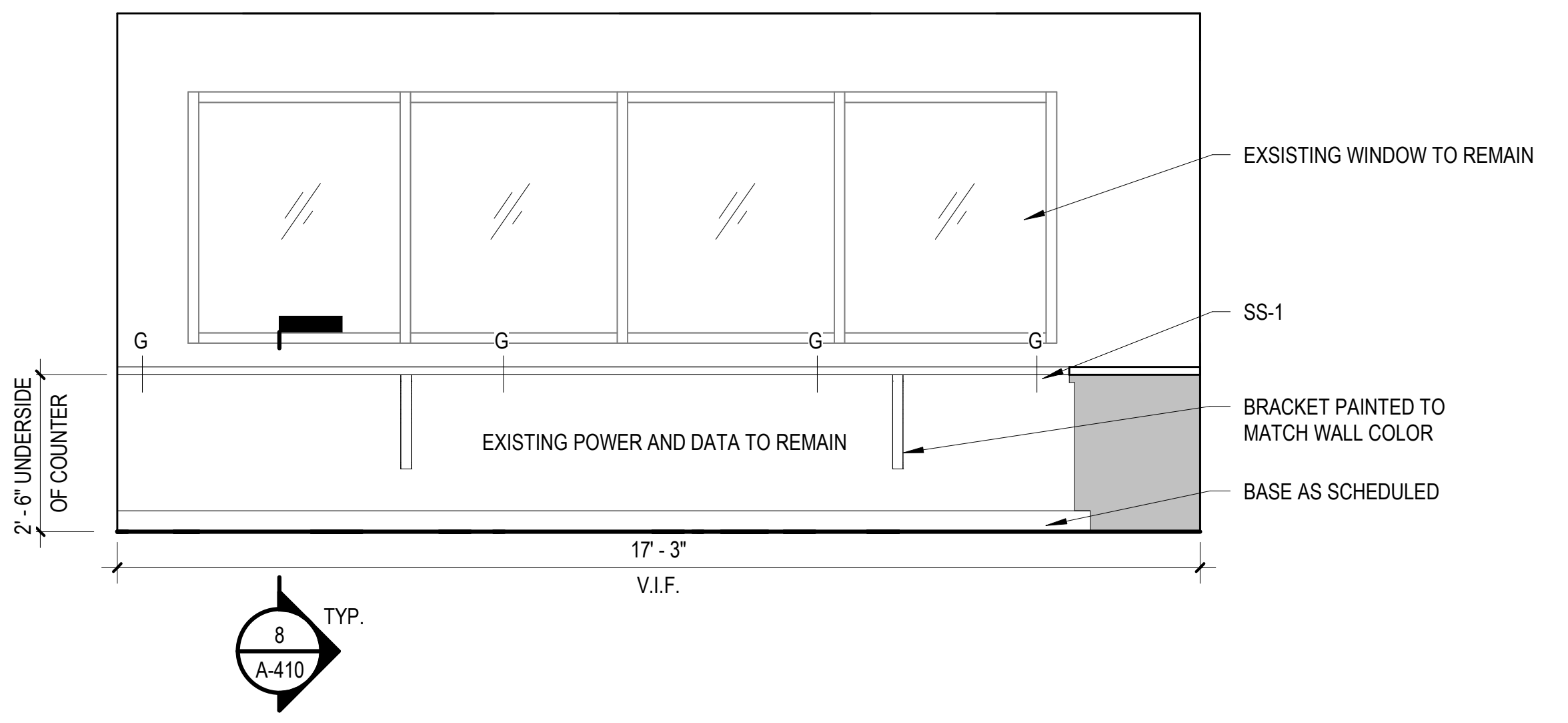
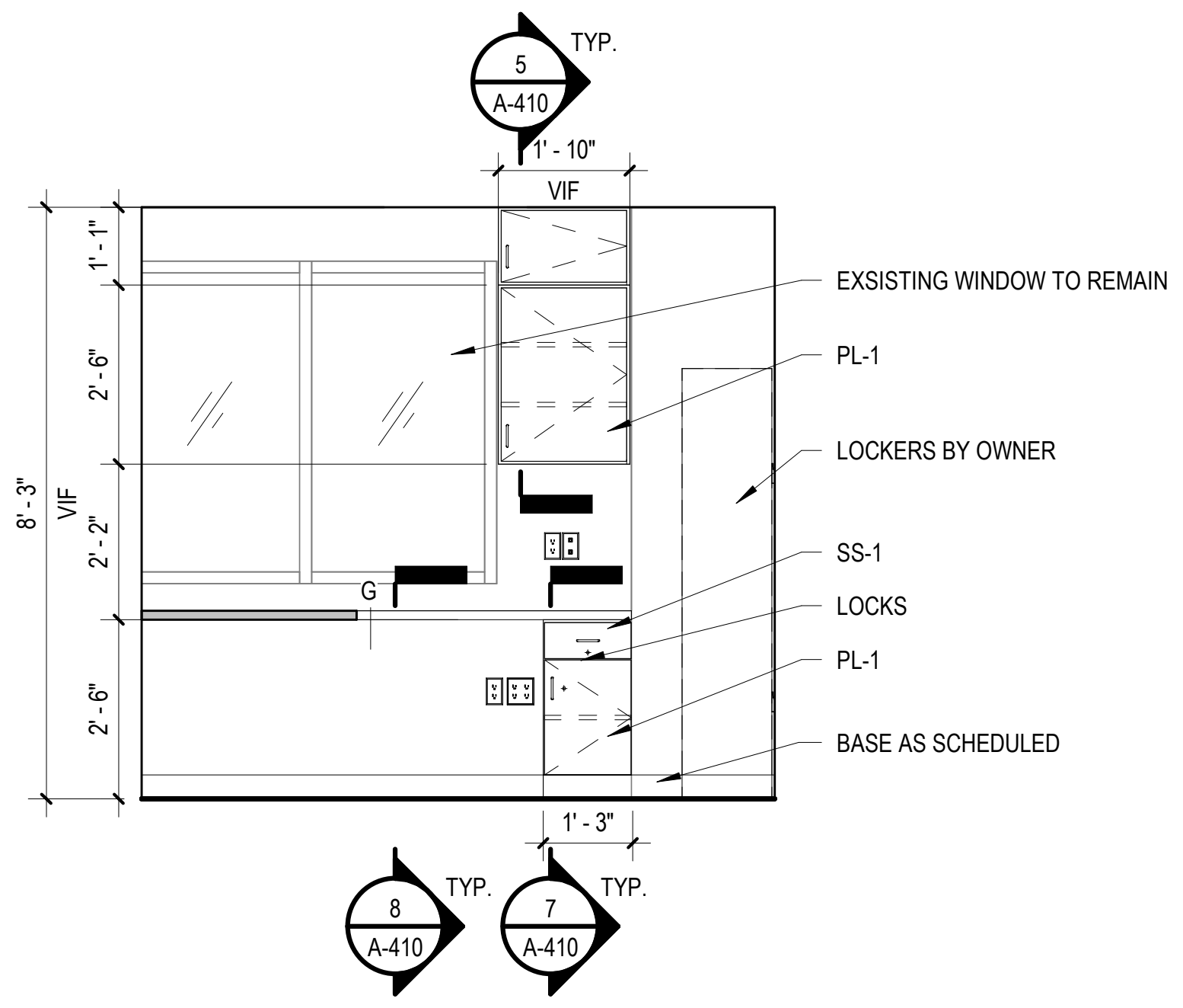
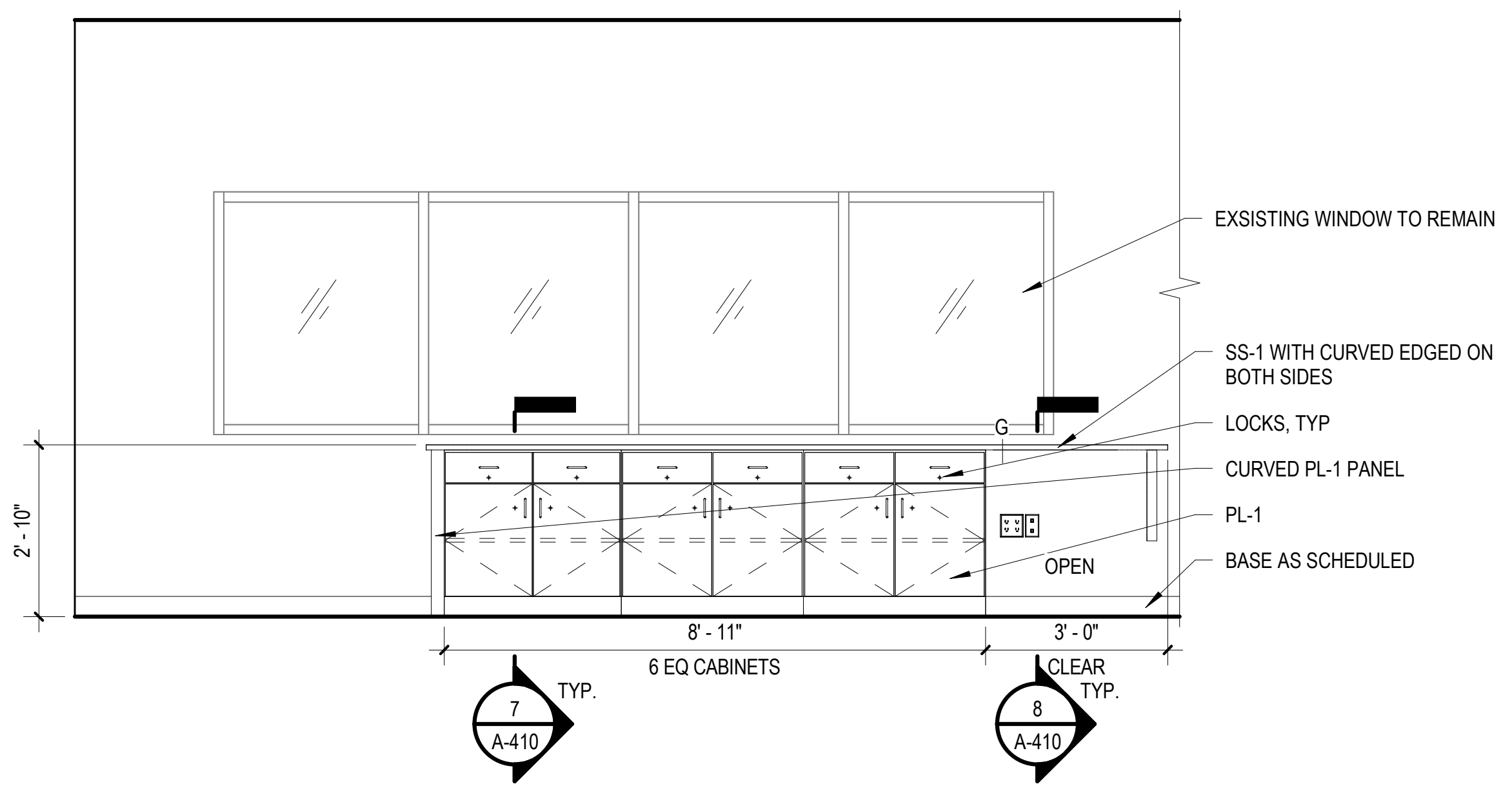

EXSISTING WINDOW TO REMAIN
SS-1
BRACKET PAINTED TO MATCH WALL COLOR
BASE AS SCHEDULED
EXISTING POWER AND DATA TO REMAIN
G
2' - 6" UNDERSIDE OF COUNTER
17' - 3"
V.I.F.
8
A-410
TYP.

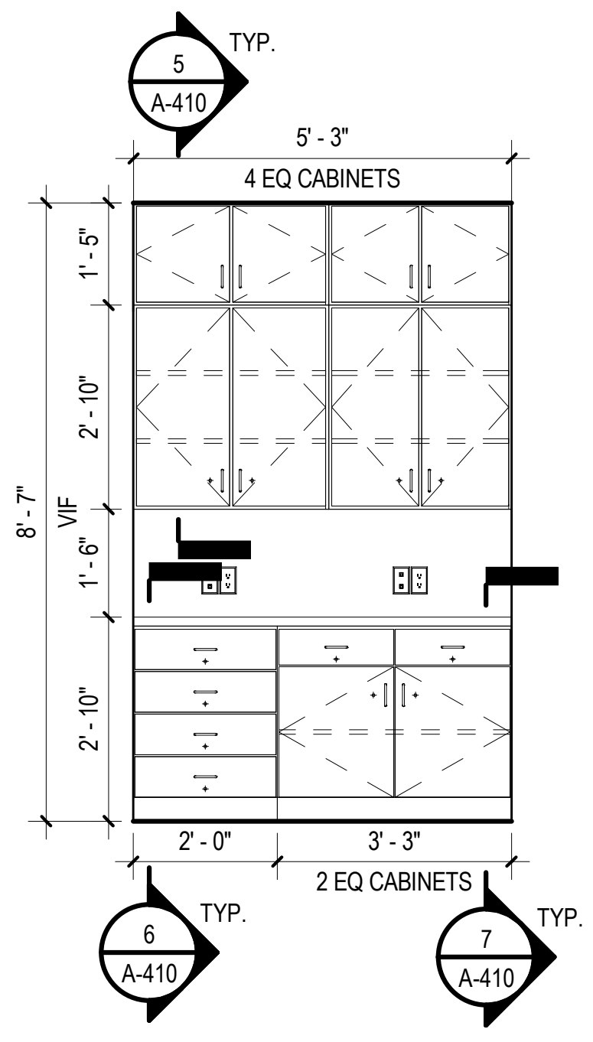
1 A-410 ELEVATION - CONTROL ROOM
3/8" = 1'-0"


5
A-410
TYP.
1' - 10"
VIF
EXSISTING WINDOW TO REMAIN
PL-1
LOCKERS BY OWNER
SS-1
LOCKS
PL-1
BASE AS SCHEDULED
1' - 1"
2' - 6"
2' - 2"
2' - 6"
8' - 3"
VIF
G
1' - 3"
8
A-410
TYP.
7
A-410
TYP.

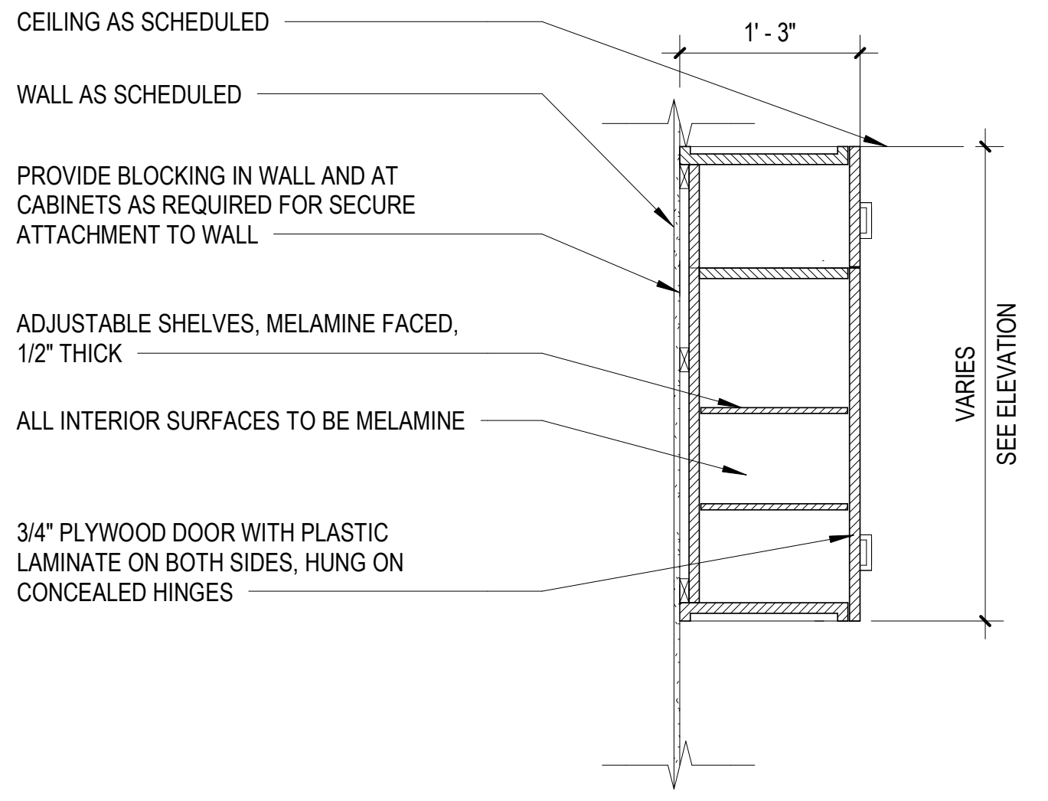
2 A-410 ELEVATION - CONTROL ROOM SOUTH
3/8" = 1'-0"


EXSISTING WINDOW TO REMAIN
SS-1 WITH CURVED EDGED ON BOTH SIDES
LOCKS, TYP
CURVED PL-1 PANEL
PL-1
BASE AS SCHEDULED
G
OPEN
2' - 10"
8' - 11"
6 EQ CABINETS
3' - 0"
CLEAR
7
A-410
TYP.
8
A-410
TYP.

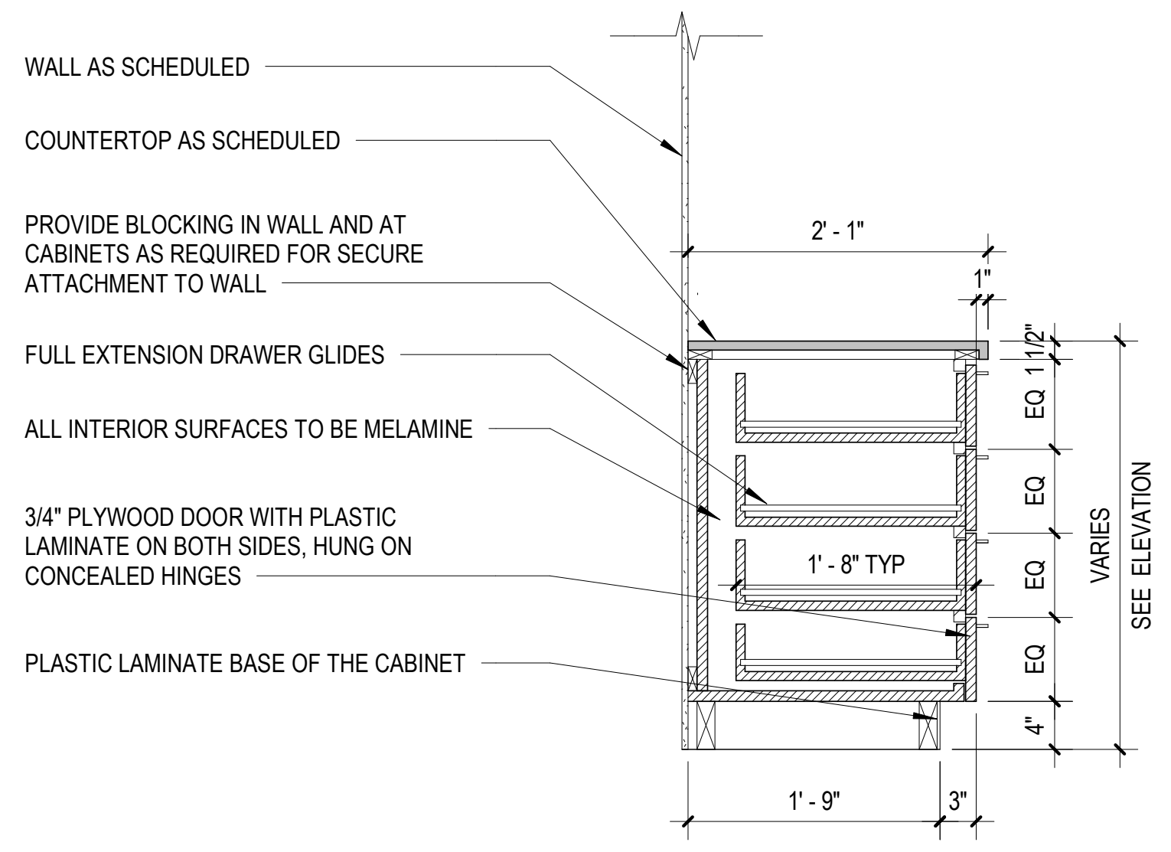
3 A-410 ELEVATION - SCAN ROOM MILLWORK
3/8" = 1'-0"


5
A-410
TYP.
5' - 3"
4 EQ CABINETS
1' - 5"
2' - 10"
1' - 6"
2' - 10"
8' - 7"
VIF
2' - 0"
3' - 3"
2 EQ CABINETS
6
A-410
TYP.
7
A-410
TYP.

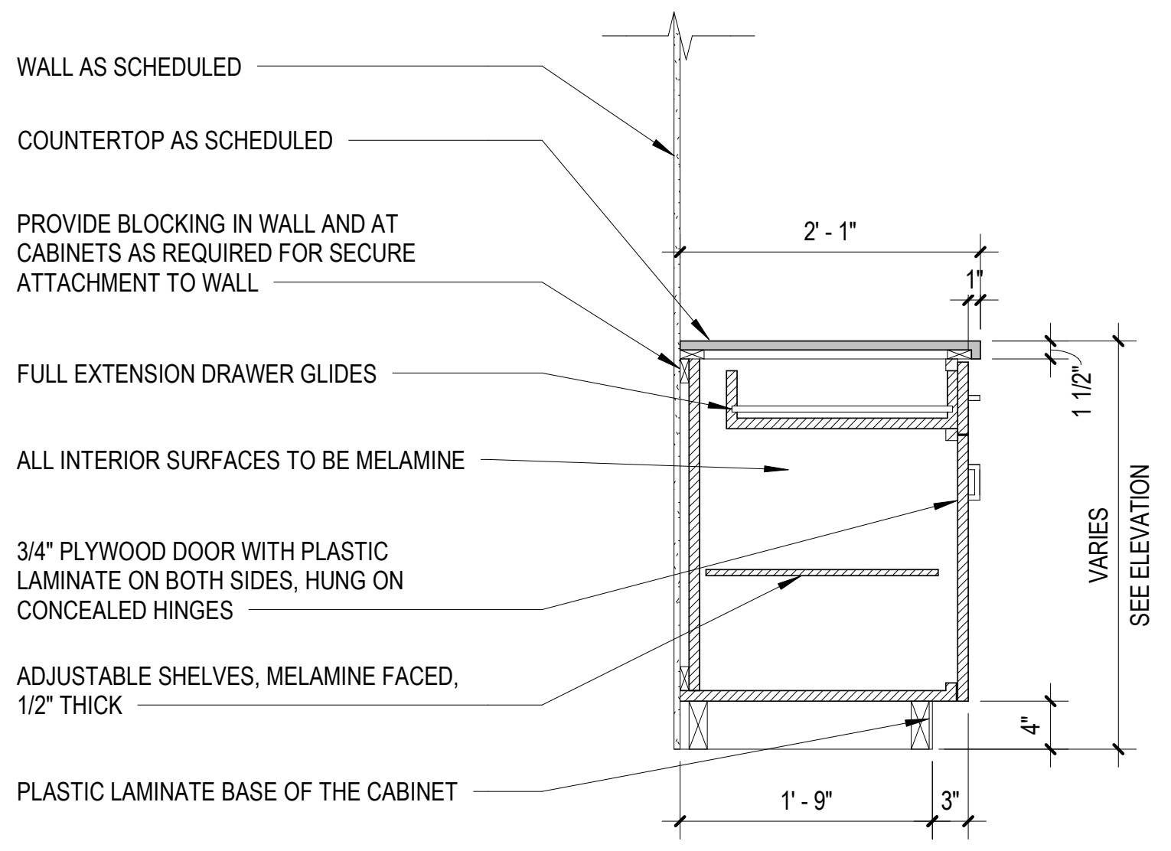
4 A-410 ELEVATION - STORAGE COUNTER
3/8" = 1'-0"


CEILING AS SCHEDULED
WALL AS SCHEDULED
PROVIDE BLOCKING IN WALL AND AT CABINETS AS REQUIRED FOR SECURE ATTACHMENT TO WALL
ADJUSTABLE SHELVES, MELAMINE FACED, 1/2" THICK
ALL INTERIOR SURFACES TO BE MELAMINE
3/4" PLYWOOD DOOR WITH PLASTIC LAMINATE ON BOTH SIDES, HUNG ON CONCEALED HINGES
1' - 3"
VARIES
SEE ELEVATION

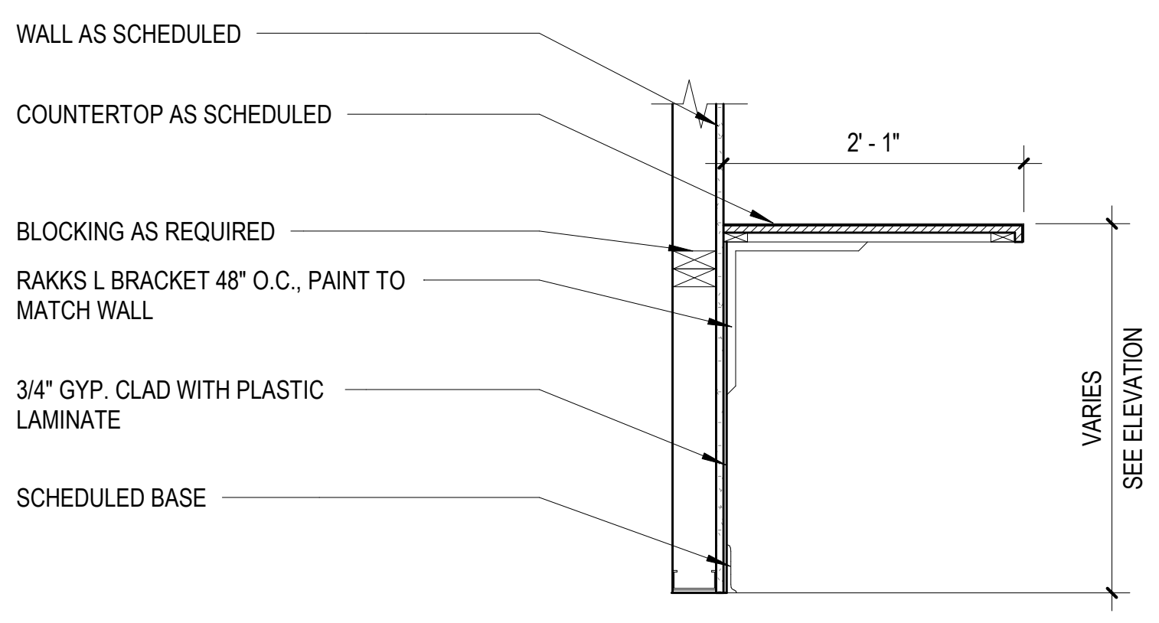
5 A-410 MILLWORK - UPPER CABINET
3/4" = 1'-0"


WALL AS SCHEDULED
COUNTERTOP AS SCHEDULED
PROVIDE BLOCKING IN WALL AND AT CABINETS AS REQUIRED FOR SECURE ATTACHMENT TO WALL
FULL EXTENSION DRAWER GLIDES
ALL INTERIOR SURFACES TO BE MELAMINE
3/4" PLYWOOD DOOR WITH PLASTIC LAMINATE ON BOTH SIDES, HUNG ON CONCEALED HINGES
PLASTIC LAMINATE BASE OF THE CABINET
2' - 1"
1"
1 1/2"
EQ
EQ
EQ
EQ
4"
1' - 8" TYP
VARIES
SEE ELEVATION
1' - 9"
3"

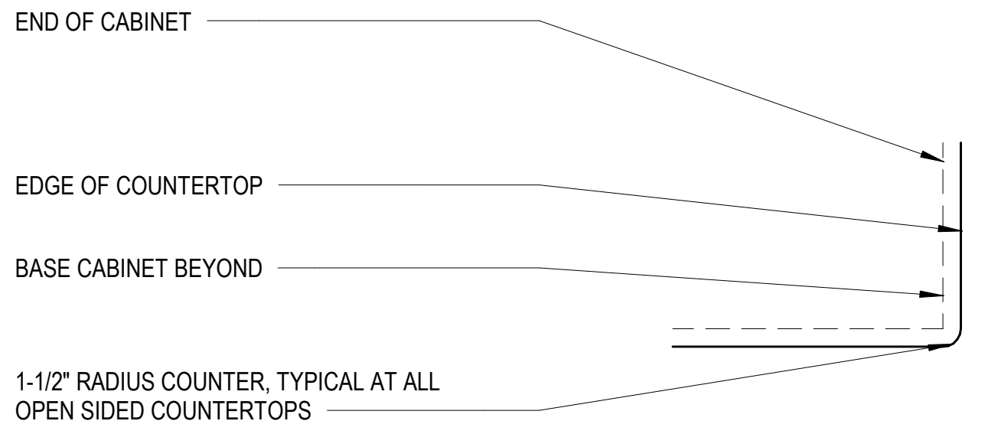
6 A-410 MILLWORK - BASE CABINET W/ 4 DRAWER BASE
3/4" = 1'-0"


WALL AS SCHEDULED
COUNTERTOP AS SCHEDULED
PROVIDE BLOCKING IN WALL AND AT CABINETS AS REQUIRED FOR SECURE ATTACHMENT TO WALL
FULL EXTENSION DRAWER GLIDES
ALL INTERIOR SURFACES TO BE MELAMINE
3/4" PLYWOOD DOOR WITH PLASTIC LAMINATE ON BOTH SIDES, HUNG ON CONCEALED HINGES
ADJUSTABLE SHELVES, MELAMINE FACED, 1/2" THICK
PLASTIC LAMINATE BASE OF THE CABINET
2' - 1"
1"
1 1/2"
4"
VARIES
SEE ELEVATION
1' - 9"
3"

7 A-410 MILLWORK - BASE CABINET W/ DRAWER
3/4" = 1'-0"


WALL AS SCHEDULED
COUNTERTOP AS SCHEDULED
BLOCKING AS REQUIRED
RAKKS L BRACKET 48" O.C., PAINT TO MATCH WALL
3/4" GYP. CLAD WITH PLASTIC LAMINATE
SCHEDULED BASE
2' - 1"
VARIES
SEE ELEVATION

8 A-410 MILLWORK - WORK DESK RAKKS BRACKET
3/4" = 1'-0"


END OF CABINET
EDGE OF COUNTERTOP
BASE CABINET BEYOND
1-1/2" RADIUS COUNTER, TYPICAL AT ALL OPEN SIDED COUNTERTOPS

9 A-410 MILLWORK - COUNTERTOP DETAIL
3/4" = 1'-0"

ELEVATION LEGEND

SYMBOL	DESCRIPTION
▯	DUPLEX OUTLET
⊞	QUAD OUTLET
▯	DATA OUTLET
G	GROMMET

POWER IS SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

MILLWORK NOTES

1. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION.
2. ALL MILLWORK SHALL BE FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH THE PREVAILING EDITONS OF ALL APPLICABLE STATE AND LOCAL CODES. CONTRACTOR TO MEET THE REQUIREMENTS OF THE PREVAILING ACCESSIBILITY CODES AS THEY PERTAIN TO MILLWORK OF ANY KIND.
3. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
4. MILLWORK PULLS SHALL BE 4" BRUSHED CHROME FINISH WIRE PULL UNLESS OTHERWISE NOTED.
5. MILLWORK SHELVES ON ADJUSTABLE STANDARDS.
6. REFER TO MILLWORK ELEVATIONS FOR COUNT AND LOCATION OF MILLWORK SHELVING.
7. COUNTERTOPS TO BE 1-1/2" THICK WITH 4" HIGH BACKSPASH.
8. REFER TO MILLWORK ELEVATIONS FOR COUNTERTOP MATERIAL AND CABINET FINISH.
9. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MILLLWORK TO ARCHITECT FOR APPROVAL PRIOR TO FABRICATION.
10. ALL EXPOSED MILLWORK SURFACES TO BE FINISHED.
11. PROVIDE BLOCKING FOR ALL MILLWORK ATTACHED TO PARTITIONS.
12. PROVIDE 3" DIA. GROMMETS AT BACK OF COUNTERTOPS EXACT LOCATION TO BE COORDINATED WITH THE OWNER IN THE FIELD AT THE TIME OF INSTALLATION.

RANDALL
PAULSON
architects
Roswell . Nashua

ALEX S. PAULSON
CERTIFICATE NO. 7180
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Roswell Mill
85-A Mill Street, Suite 200
Roswell, Georgia 30075
770.650.7558
www.randallpaulson.com

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17 APR 25	95% REVIEW	AG	ZS
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Revisions

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Project No.
2024509.00

Sheet Title
INTERIOR ELEVATIONS

Sheet No.
A-410

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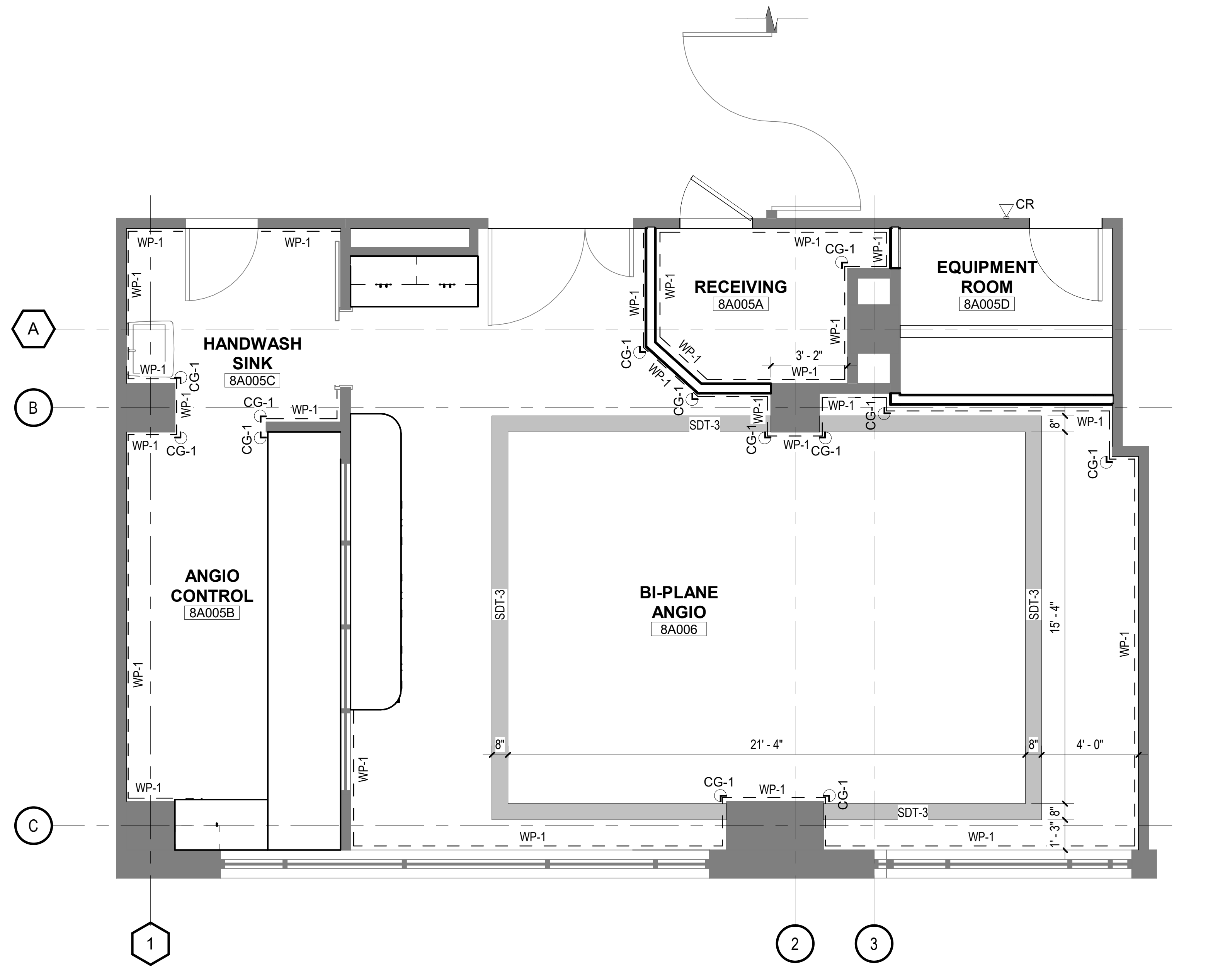
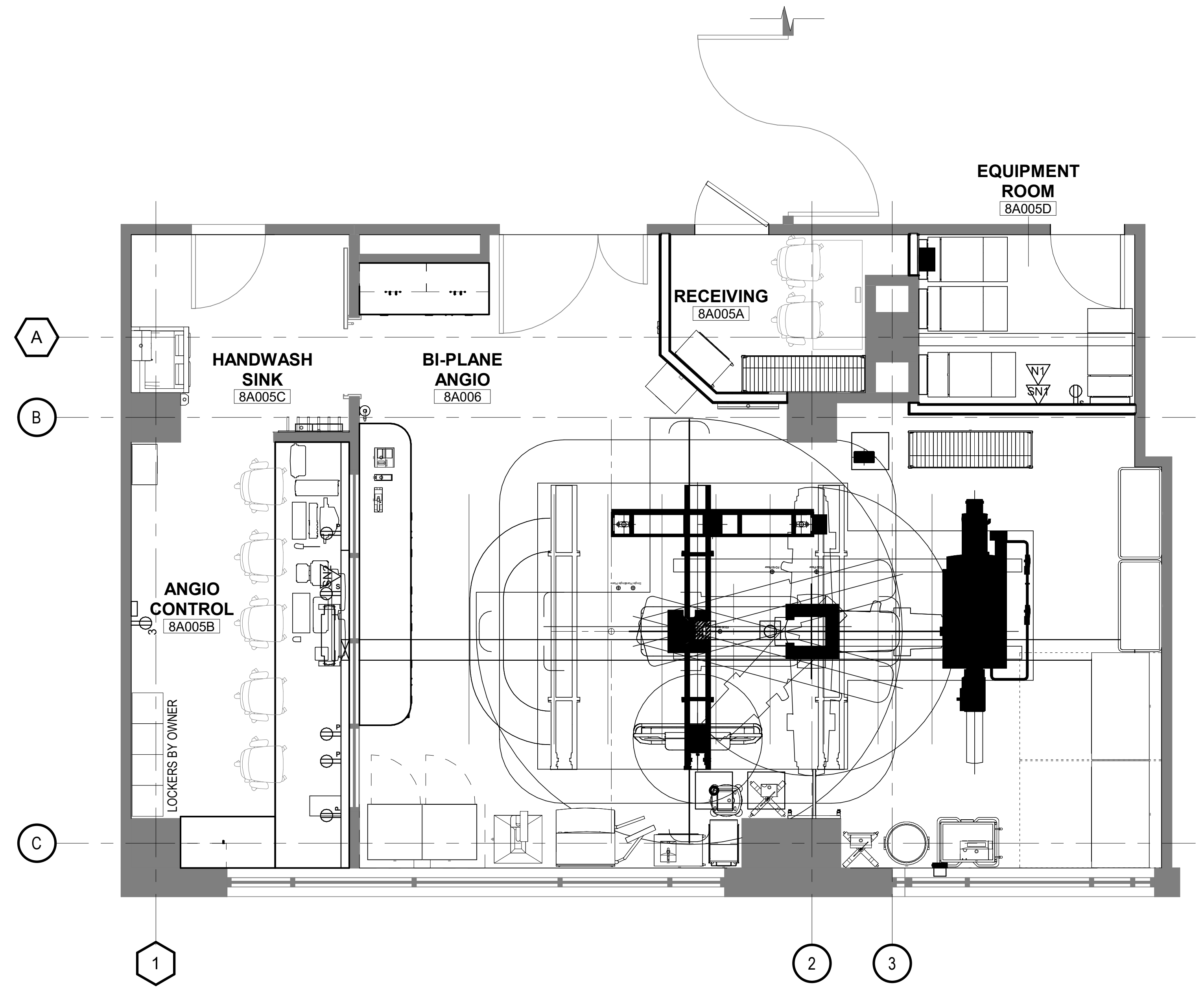


1 A-700 **OVERALL FINISH PLAN**
1/4" = 1'-0"

PROJECT NORTH



FOR REFERENCE ONLY, SEE EQUIPMENT DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

2 A-700 **OVERALL EQUIPMENT AND FURNITURE PLAN**
1/4" = 1'-0"

PROJECT NORTH

PAINT FINISH NOTES

1. ALL WALLS TO BE PAINTED EGGSHELL FINISH.
2. ALL SOFFITS, HEADERS, AND CEILINGS TO BE PAINTED FLAT FINISH.
3. ALL PAINT GRADE MILLWORK AND TRIM TO BE PAINTED SEMI-GLOSS.
4. ALL STAINED MILLWORK TO BE SATIN FINISH.
5. ALL WALLS IN JANITOR CLOSETS AND RESTROOMS TO BE EPOXY FINISH.

FINISH PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES, SPECIFICATIONS, FINISH SCHEDULE, OR FINISH PLANS FOR MORE INFORMATION.
2. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
3. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING FINISHES THAT ARE SCHEDULED TO REMAIN. FINISHES DAMAGED DURING CONSTRUCTION ARE TO BE CLEANED, PATCHED, REPAIRED TO ORIGINAL CONDITION, OR REPLACED AT CONTRACTOR'S EXPENSE.
4. ALL MATERIALS TO BE INSTALLED WITH METHODS AND PRODUCTS RECOMMENDED BY THE MANUFACTURER.
5. INSTALLER SHALL EXAMINE CONDITIONS OF SURFACES ON WHICH NEW FINISHES ARE TO BE INSTALLED AND NOTIFY GENERAL CONTRACTOR PRIOR TO INSTALLATION IF CONDITIONS ARE NOT SATISFACTORY. ALL SURFACES SHALL BE CLEANED AND CONDITIONED TO RECEIVE NEW FINISH AS REQUIRED BY FINISH PRODUCT MANUFACTURER. SURFACES SHALL BE SMOOTH, FREE FROM DEPRESSIONS. PROTRUSIONS, PITS, SUMPS, STREAKS AND VARIATION IN TEXTURE. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY OF ANY IMPERFECTIONS, COMMENCING WITH WORK SHALL CONSTITUTE ACCEPTANCE OF SURFACES SCHEDULED TO RECEIVE NEW FINISHES TO BE SMOOTH, EVEN AND FREE OF IMPERFECTIONS.
6. CONTRACTOR TO APPROVE ALL NEW FINISHES AGAINST DEFECTS. IF ANY DEFECTS IN MATERIALS ARE FOUND, DO NOT PROCEED WITH INSTALLATION. NOTIFY THE MANUFACTURER AND ARRANGE REPLACEMENT AS SOON AS POSSIBLE. GC SHOULD NOTIFY ARCHITECT AND OWNER IMMEDIATELY OF DELAYS CAUSED BY REPLACEMENTS OF NEW FINISHES.
7. ALL WALL MOUNTED MECHANICAL SLOTS OR GRILLES, PAINTED SHELVES, ETC ON WALL OR CEILING TO MATCH ADJACENT WALL COLOR UNLESS OTHERWISE NOTED. DO NOT PAINT PRE-FINISHED COMPONENTS, INCLUDING BUT NOT LIMITED TO, WALL MULLION END CAPS.
8. METAL TRANSITION FLOOR TRANSITION STRIPS WHEREVER FLOOR TYPES CHANGE. SUBMIT PHYSICAL SAMPLE OF MANUFACTURER'S STANDARD COLORS TO ARCHITECT FOR COLOR SELECTION OR PROVIDE RUBBER TRANSITION STRIPS TO MATCH WALL BASE UNLESS NOTED OTHERWISE.
9. ALL FLOOR FINISH CHANGES TO OCCUR UNDER CENTERLINE OF DOOR IN CLOSED POSITION UNLESS NOTED OTHERWISE.
10. CAULK ALL MILLWORK WHERE IT MEETS THE WALL AND FLOOR.
11. ALL SPECIFIED FINISHES SHALL MATCH EXISTING BUILDING STANDARDS. CONTRACTOR TO NOTIFY ARCHITECT OF ANY SPECIFIED DISCREPANCIES OR DISCONTINUED ITEMS IN A TIMELY MANNER.
12. EACH MATERIAL SPECIFIED FOR APPLICATION ON THE ENTIRE PROJECT SHALL BE FROM THE SAME DYE LOT.
13. COMBUSTIBLE INTERIOR FINISH PRODUCTS SHALL BE PROVIDED PER THE REQUIREMENT OF THE RESPECTIVE OCCUPANCY CHAPTER OF THE PREVAILING EDITION OF THE NFPA 101 LIFE SAFETY CODE, UNDER WHICH THE PROJECT IS BEING PERMITTED. PROVIDE VERIFICATION AT THE TIME OF FINAL INSPECTION THAT THE PRODUCTS COMPLY WITH THE REQUIREMENTS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR LEVELING OF FLOOR SLABS TO RECEIVE SPECIFIED FINISHES.
15. ALL PATTERNED FLOORING TO BE CENTERED IN BOTH DIRECTIONS AND GENERATED FROM CENTER OF ROOM OUTWARD TOWARD PARTITIONS, UNLESS OTHERWISE NOTED.
16. CARPET SEAMS SHALL OCCUR AT JUNCTIONS OF PARTITIONS, THRESHOLDS OR CHANGE OF DIRECTION IN CORRIDORS. NO STRIP PATCHING ALLOWED. SUBMIT SEAMING DIAGRAM FOR APPROVAL PRIOR TO INSTALLATION. ALL CARPET BORDER CORNERS SHALL BE MITERED.
17. GYPSUM BOARD SURFACES TO RECEIVE THE FOLLOWING FINISH LEVELS PER THE GUIDELINES OF GA-214-M-97 OF THE GYPSUM ASSOCIATION:

    LEVEL 1 - ABOVE FINISHED CEILINGS CONCEALED FROM VIEW.

    LEVEL 2 - PANELS THAT ARE SUBSTRATE FOR TILE.

    LEVEL 4 - WALLS AND CEILINGS SCHEDULED TO RECEIVE FLAT OR EGGSHELL PAINT FINISH (SEE FINISH LEGEND FOR EXACT FINISH).

    LEVEL 5 - WALLS AND CEILINGS SCHEDULED TO RECEIVE SEMI-GLOSS OR GLOSS PAINT FINISH OR WALLCOVERING (SEE FINISH LEGEND FOR EXACT FINISH).
18. PROVIDE SCHLUTER STRIP AT ALL EXPOSED EDGES OF WALL TILE, TYPICAL.

FINISH SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FLOOR TRANSITION
CG-X	CORNER GUARD
HR-X	HANDRAIL
WP-X	WALL PROTECTION
CT-X	CURTAIN & TRACK

FINISH SCHEDULE

NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
8A005A	RECEIVING	RT-1	RT-1	P-1	ACT	
8A005B	ANGIO CONTROL	SDT-2	SDT-2	P-1	ACT	
8A005C	HANDWASH SINK	SDT-2	SDT-2	P-1	ACT	
8A005D	EQUIPMENT ROOM	RT-1	RT-1	P-1	ACT	
8A006	BI-PLANE ANGIO	SDT-2 / SDT-3	SDT-2	P-1	ACT	

FINISH LEGEND

KEY	PRODUCT	MANUFACTURER	COLOR	FINISH	SIZE	COMMENTS
CG-1	CORNER GUARD	CS ACROVYN, SM-20	MISSION WHITE #933		FULL HEIGHT	
P-1	WALL PAINT	SHERWIN WILLIAMS	PEARLY WHITE SW 7009	EGGSHELL		
P-2	TRIM PAINT	SHERWIN WILLIAMS	BEIGE SW 7036	SEMI-GLOSS		
P-3	CEILING PAINT	SHERWIN WILLIAMS	BRIGHT WHITE SW 7007	FLAT		
PL-1	PLASTIC LAMINATE	WILSONART, 38 FINE, WOOD GRAIN	7985-38 MORELIA MANGO	VELVET TEXTURE, AEON FINISH		
RT-1	RESILIENT TILE	NORAPLAN SATURA RUBBER TILE	ARA 5110		3MM	HEAT WELD WITH 6" INTEGRAL COVE BASE
SDT-2	STATIC DISSIPATIVE SHEET	NORA PLAN SENTICA RUBBER SHEET	SNOW DAY 6520		3MM	HEAT WELD WITH 6" INTEGRAL COVE BASE
SDT-3	STATIC DISSIPATIVE SHEET	NORA PLAN SENTICA RUBBER SHEET	ICE CUBE 6528		3MM	HEAT WELD WITH 6" INTEGRAL COVE BASE
SS-1	SOLID SURFACE	LG HIMACS, 1/2" THICK SOLID SURFACE	ARCTIC WHITE S006			
WB-1	WINDOW BLINDS	MECHO SHADE, MECH 7 MANUAL SHADE SYSTEM				
WP-1	WALL PROTECTION	CS ACROVYN, 4000 RIGID SHEET	MISSION WHITE #933		.04" THICK	4" AFF

RANDALL
PAULSON
architects
Roswell . Nashua

ALEX S. PAULSON
25 APRIL 2025

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

architecture/interiors

INTERIOR RENOVATION

at

MARCUS STROKE AND NEUROSCIENCE ANGIO 1 REPLACEMENT

for

Grady

GRADY MEMORIAL HOSPITAL
SUITE 8-A
80 JESSE HILL, JUNIOR DRIVE SE
ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	AG	ZS
25 APR 25	ISSUE FOR PERMIT		

Revisions

Date
25 APRIL 2025

Project No.
2024509.00

Sheet Title
FINISH, FURNITURE, AND EQUIPMENT PLANS AND SCHEDULE

Sheet No.
A-700

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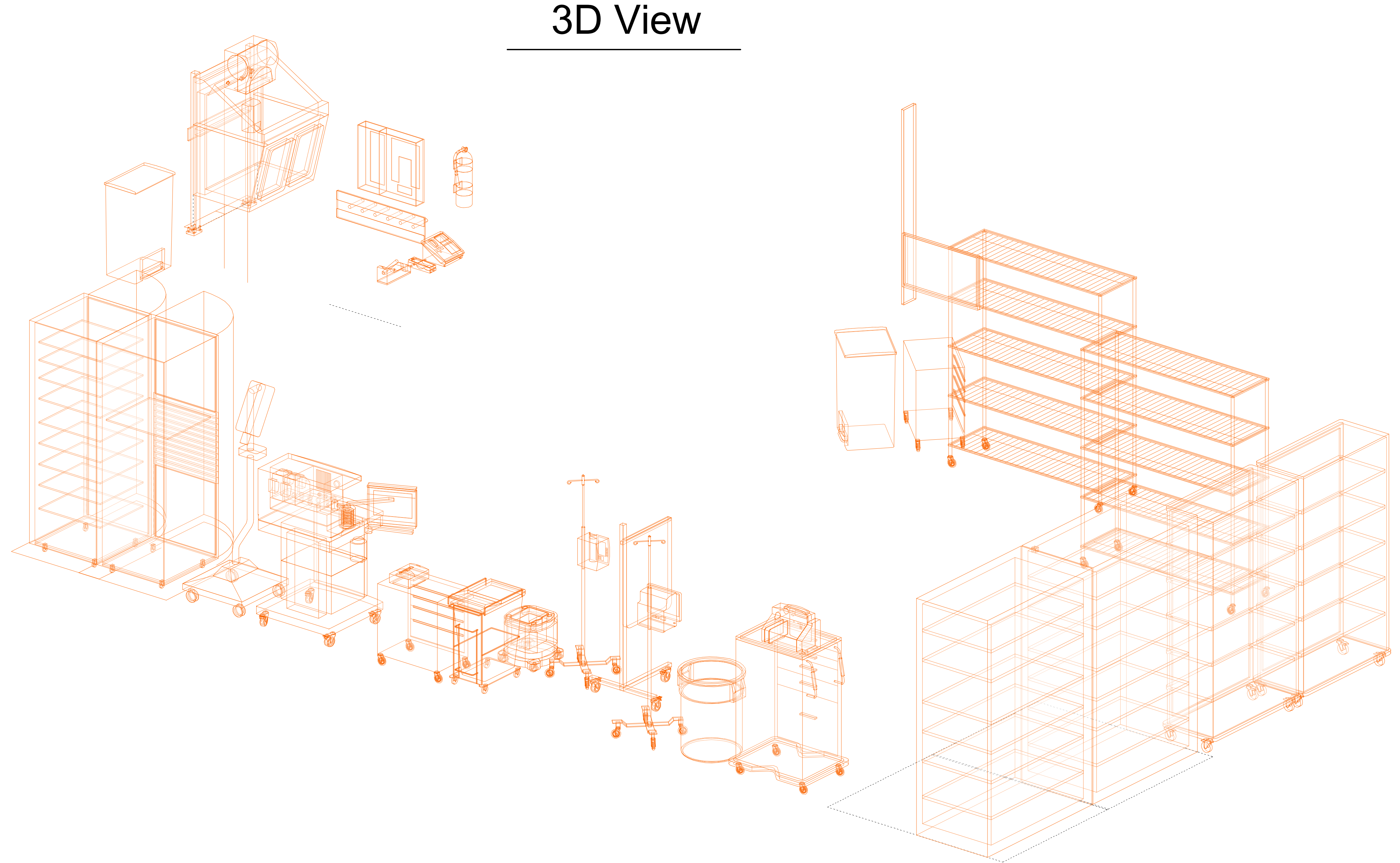
MEDICAL EQUIPMENT PACKAGE

CONSTRUCTION DOCUMENT REVIEW SET

3D View



Sheet Index

03.3_SHEET LIST - CONSTRUCTION DOCUMENT SET					
Sheet Number	Sheet Name	Sheet Issue Date	Current Revision	Current Revision Date	Current Revision Description
EQ0.00	MDEQ COVER SHEET - CONSTRUCTION DOCUMENT SET	25 APRIL 2025			
EQ1.01	1ST FLOOR - MEDICAL EQUIPMENT PLAN	25 APRIL 2025			

Notes

MDEQ GENERAL NOTES

1. REFER TO THE TRADE CONTRACTOR
   - 1.1 FOR INSTALLATION OF ALL SYSTEMS
   - 1.2 ALL CODES, SPECIFICATIONS, AND BEST PRACTICES
   - 1.3 ALL EQUIPMENT & LIGHTING DOCUMENTS
2. MODELING
   - 2.1 ALL MODEL COMPONENTS ARE SHOWN SYMBOLICALLY. USE ALL APPROPRIATE COMPONENTS PER CODE AND SPECIFICATIONS
3. COORDINATION
   - 3.1 COORDINATED CLOSELY WITH ARCHITECT TO AVOID CONFLICT AND ENSURE ALL EQUIPMENT IS SHOWN SCHEMATICALLY
   - 3.2 AREAS THAT HAVE AN OPEN RFI OR ISSUES WILL BE NOTED ON SIGNOFF DOCUMENTS BY ARCHITECT / GC / DESIGN TEAM /OR OWNER
4. DRAWINGS
   - 4.1 ARE FOR LAYOUT AND COORDINATION ONLY; THEY ARE NOT A PRODUCT OF AN ENGINEER OR CODE APPROVAL
   - 4.2 AREAS THAT HAVE AN OPEN RFI OR ISSUES SHOULD BE COORDINATED WITH THE ARCHITECT / GC / DESIGN TEAM /OR OWNER AS NEEDED BEFORE CONSTRUCTION

MDEQ PROJECT NOTES

1. FIELD VERIFY ALL LOCATIONS & HEIGHTS OF ALL WALL MOUNTED EQUIPMENT
2. ALL HEIGHT DIMENSIONS ARE FROM THE FINISHED FLOOR
3. FIELD VERIFY ALL LOCATIONS OF ALL CEILING MOUNTED EQUIPMENT

MDEQ ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
FV	FIELD VERITY

Sheet Numbering Key

AAN.NNUUU

AA_ **(DISCIPLINE)**	**_ _N** **(TYPE DESIGNATOR)**	**.NN**	**UUU** **(SEQUENCE DIVISION NUMBER)**
EQ MEDICAL EQUIPMENT	0 GENERAL COVER SHEET	LEVEL U1 UG 1 01 LEVEL 1 11 LEVEL 11	AREA/PHASE A AREA A A1 PHASE 1
G General S Structural A Architectural I Interiors EQ Medical Equipment F Fire Protection P Plumbing M Mechanical E Electrical T Telecommunications X Other Disciplines Z Contractor/Shop Drawings	1 PLANS MEDICAL EQUIPMENT PLAN 2 CEILING REFLECTIVE CEILING PLAN CEILING ACCESS 3 CUT SECTIONS (USER DEFINED) DETAIL / SECTION 4 ARCHITECTURAL BACKGROUND ROOM NAMES 5 ELECTRICAL BACKGROUND (USER DEFINED)		**USER-DEFINED*

A = *alphabetical character*
N = *numerical character*
U = *user-defined character*

Color Legend

🟧 Medical Equipment
RGB 250-150-000
🟩 Ceiling Mounted Equipment
RGB 000-150-000
🟦 Vendor Equipment
RGB 000-150-250
⬚ Temporary Space Holder Equipment
RGB 000-000-000

RANDALL PAULSON architects
Roswell . Nashua

Roswell Mill
85-A Mill Street, Suite 200
Roswell, Georgia 30075
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17 APR 25	95% REVIEW	SEH	CWH
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Revisions

Date: 25 APRIL 2025
Project No.: HZM25-0201

Sheet Title
MDEQ COVER SHEET - CONSTRUCTION DOCUMENT SET

Sheet No.
EQ0.00

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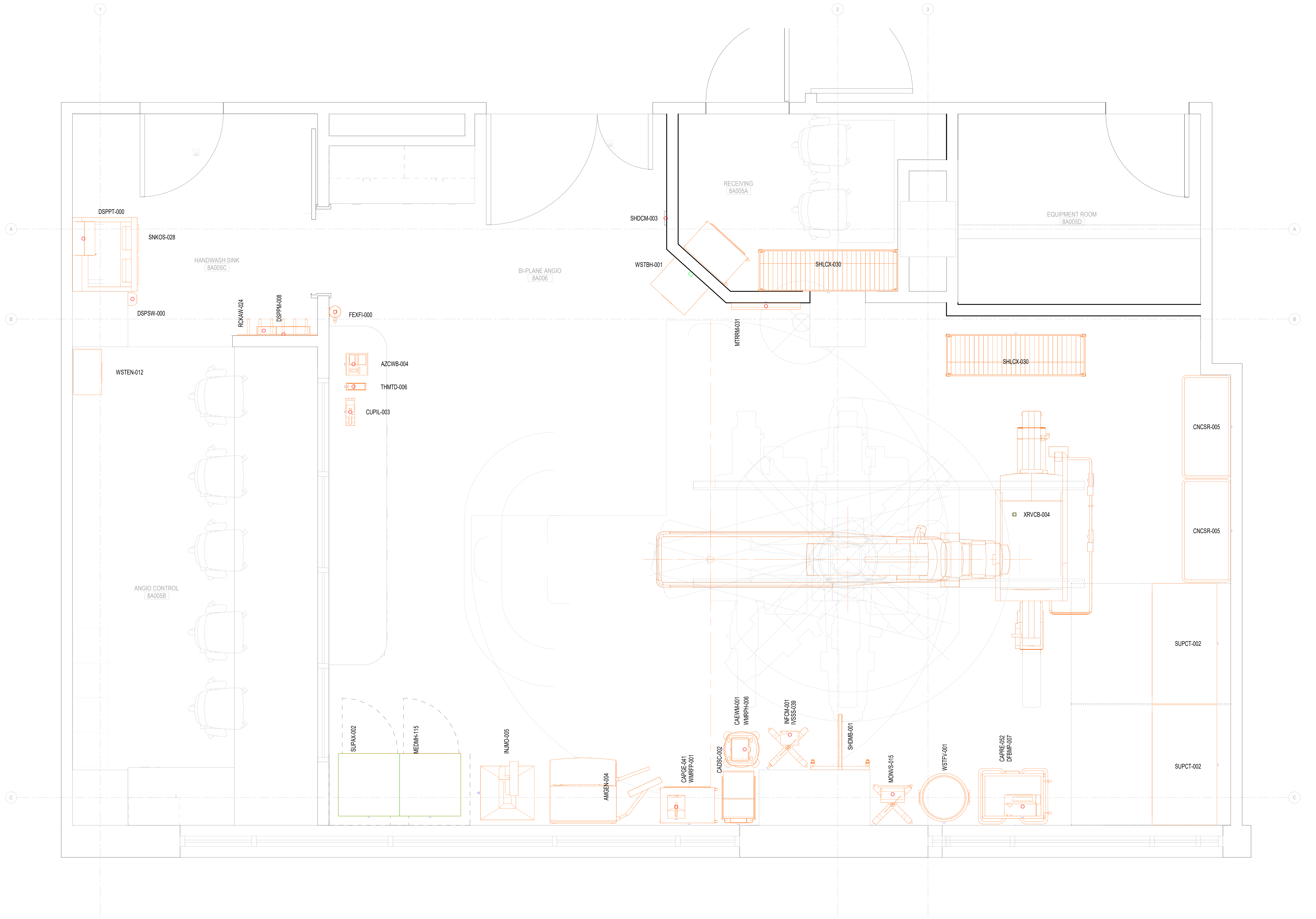
1
2
3
A
B
C
DSPPT-000
SNKOS-028
HANDWASH SINK
8A005C
DSPSW-000
RCKAW-024
DSPPM-008
FEXFI-000
BI-PLANE ANGIO
8A006
SHDCM-003
WSTBH-001
RECEIVING
8A005A
SHLCX-030
MTRRM-031
EQUIPMENT ROOM
8A005D
SHLCX-030
WSTEN-012
AZCWB-004
THMTD-006
CUPIL-003
CNCSR-005
CNCSR-005
XRVCB-004
ANGIO CONTROL
8A005B
SUPCT-002
SUPCT-002
SUPAX-002
MEDMH-115
INJMO-005
AMGEN-004
CAPGE-041
WMRFP-001
CADSC-002
CAEWM-001
WMRPH-006
INFCM-001
IVSSS-039
SHDMB-001
MONVS-015
WSTFV-001
CAPRE-052
DFBMP-007

① FLOOR PLAN VIEW - MEDICAL EQUIPMENT
3/4" = 1'-0"

RANDALL PAULSON
architects
Roswell . Nashua

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Project No.
HZM25-0201

Sheet Title
1ST FLOOR - MEDICAL EQUIPMENT PLAN

Sheet No.
EQ1.01

■ Released for Construction
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GENERAL

1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, DESIGN PROFESSIONAL, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE DESIGN PROFESSIONAL OF RECORD OR ANY OF THE DESIGN PROFESSIONAL OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
2. CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
3. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
4. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
6. CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.
7. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY.
8. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT WEIGHTS, OPENING SIZES AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
9. CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.
10. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
11. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.
12. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
13. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
14. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
15. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THE TYPICAL DETAILS UNLESS THOSE LOCATIONS ARE SPECIFICALLY DETAILED OTHERWISE.
16. STRUCTURAL DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR THE DESIGN OF CURTAIN WALL/WINDOW WALL SYSTEMS, COLD-FORMED METAL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
17. SUBMITTALS
    - 17.1 SUBMITTALS BY THE CONTRACTOR ARE NOT A PART OF THE CONTRACT DOCUMENTS. PRIOR TO THE INITIAL SUBMITTAL, CONTRACTOR SHALL SUBMIT TO THE DESIGN PROFESSIONAL A SCHEDULE OF SUBMITTED INFORMATION.
    - 17.2 SUBMITTALS SHALL BE ACCOMPANIED BY A TRANSMITTAL LETTER WITH THE FOLLOWING INFORMATION:
        - PROJECT NAME
        - CONTRACTOR'S NAME
        - DATE SUBMITTED
        - DESCRIPTION OF ITEMS SUBMITTED. IDENTIFY WORK AND PRODUCT BY SPECIFICATION SECTION
        - NUMBER OF DRAWINGS AND OTHER PERTINENT DATA.
    - 17.3 CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION ON THE SUBMITTAL TO ANY DEVIATION FROM THE CONTRACT DOCUMENTS. CONTRACTOR SHALL STAMP AND SIGN EACH SHEET OF SHOP DRAWINGS AND PRODUCT DATA, AND SIGN OR INITIAL EACH SAMPLE TO CERTIFY COMPLIANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS. SUBMITTALS RECEIVED WITHOUT THE CONTRACTOR'S STAMP OF REVIEW WILL BE RETURNED TO THE CONTRACTOR FOR REVIEW AND RESUBMITTAL.
    - 17.4 WORK REQUIRING SHOP DRAWINGS, WHETHER CALLED FOR BY THE CONTRACT DOCUMENTS OR REQUESTED BY THE CONTRACTOR, SHALL NOT COMMENCE UNTIL THE SUBMISSION HAS BEEN REVIEWED BY THE DESIGN PROFESSIONAL. WORK MAY COMMENCE IF THE CONTRACTOR VERIFIES THE ACCURACY OF THE DESIGN PROFESSIONAL'S CORRECTIONS AND NOTATIONS AND COMPLIES WITH THEM WITHOUT EXCEPTION AND WITHOUT REQUESTING CHANGE IN CONTRACT SUM OR CONTRACT TIME AT COPY OF THE MARKED STRUCTURAL SHOP DRAWINGS WITH THE DESIGN PROFESSIONAL'S REVIEW STAMP IS TO BE MAINTAINED AT THE JOB SITE.

PROJECT SCOPE

1. THE PROJECT SCOPE INVOLVES THE ADDITION OF NEW IMAGING EQUIPMENT WITH PATIENT TABLE, CEILING SUPPORT SYSTEM, AND ADDITIONAL MEDICAL EQUIPMENT FOR A SUITE IN GRADY MEMORIAL HOSPITAL.
2. STRUCTURAL SCOPE OF THIS PROJECT IS LIMITED TO ANALYSIS OF THE EXISTING STRUCTURE FOR THE NEW LOADING CONDITIONS IMPARTED BY THE NEW MEDICAL EQUIPMENT.

EXISTING CONDITIONS

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION AND/OR CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
2. EXISTING CONDITIONS SHOWN ARE BASED ON:
    - A. AVAILABLE EXISTING DRAWINGS AS NOTED BELOW:
        - GRADY MEMORIAL HOSPITAL BY URS CONSULTANTS, DATED OCTOBER 8, 1993.

CODE/DESIGN CRITERIA

1. SCOPE OF WORK IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
    - INTERNATIONAL BUILDING CODE, 2018 EDITION WITH GEORGIA AMENDMENTS.
2. GRAVITY LOADS (FROM EXISTING STRUCTURAL DRAWINGS BY URS CONSULTANTS DATED OCTOBER 8, 1993)

2.1 UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):

• OFFICES	60 PSF

2.2 CONCENTRATED FLOOR LOADS: DISTRIBUTED OVER AN AREA OF 2-1/2 FEET BY 2-1/2 FEET, UNLESS NOTED OTHERWISE:

• HOSPITAL	1000 LB

2.3 DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT):

EXISTING FLOOR:	
• CEILING/MEP	10 PSF
FLOOR:	
• MISCELLANEOUS	3 PSF
• CEILING/MEP	5 PSF
• UNISTRUT GRID SYSTEM	7 PSF

3. WIND LOADS:
    - BASIC DESIGN WIND SPEED, V = 119 MPH
    - ALLOWABLE DESIGN WIND SPEED, V_{ASD} = 92 MPH
    - RISK CATEGORY: IV
    - EXPOSURE B
    - INTERNAL PRESSURE COEFFICIENT = ± 0.18
4. EARTHQUAKE LOADS:
    - RISK CATEGORY: IV
    - SEISMIC IMPORTANCE FACTOR: I = 1.5
    - SHORT PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, $S_S = 0.183$
    - 1 SECOND PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, $S_1 = 0.085$
    - SITE CLASS D-DEFAULT (ASSUMED)
    - SHORT PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, $S_{DS} = 0.195$
    - 1 SECOND PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, $S_{D1} = 0.136$
    - SEISMIC DESIGN CATEGORY: D
5. UNLESS NOTED OTHERWISE CALCULATED INDIVIDUAL MEMBER DEFLECTIONS (IN INCHES) DO NOT EXCEED THE FOLLOWING:

	DEAD LOAD	LIVE LOAD	DEAD + LIVE LOAD
FLOOR MEMBERS:	L/360	L/360	L/240

- WHERE, L = SPAN LENGTH (IN INCHES) BETWEEN SUPPORTS. (FOR CANTILEVERS, L IS TWICE THE LENGTH OF THE CANTILEVER.) NOTE THAT THE TOTAL MAXIMUM CALCULATED FLOOR SYSTEM DEFECTION WILL BE THE SUM OF THE DEFLECTIONS OF THE SUPPORTED ELEMENTS IN A BAY.

6. SPECIAL INSPECTIONS:
    - 6.1 THE STRUCTURAL TESTING/INSPECTION AGENCY, SEE SPECIFICATION SECTION 014525, WILL PERFORM SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE. MATERIALS AND WORK TO BE INSPECTED INCLUDE STEEL CONSTRUCTION. SEE SHEET S-003 FOR A COMPLETE LIST OF WORK REQUIRING SPECIAL INSPECTIONS.
    - 6.2 SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE ARE REQUIRED FOR STRUCTURAL COMPONENTS AND ASSEMBLIES WHICH ARE NOT FABRICATED AT THE CONSTRUCTION JOB SITE INCLUDING BUT NOT LIMITED TO STRUCTURAL STEEL FRAMING.
    - 6.3 SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE MAY BE WAIVED FOR ITEMS WHICH ARE PRODUCED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND BY PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE WHICH STATES THAT THE FABRICATION WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
    - 6.4 THE PROJECT OWNER WILL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE DURING CONSTRUCTION OF THE PROJECT. DOCUMENTATION THAT SUMMARIZES THE QUALIFICATION AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND DEMONSTRATES COMPETENCE FOR INSPECTION OF EACH PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION SHALL BE SUBMITTED TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
    - 6.5 APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION REPORTS TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE AND TO THE DESIGN PROFESSIONAL WHICH INDICATE THAT THE WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. A FINAL REPORT WHICH DOCUMENTS THE RESULTS OF THE SPECIAL INSPECTIONS PERFORMED INCLUDING CORRECTION OF ANY DISCREPANCIES IDENTIFIED DURING INSPECTION SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY APPROVED BY THE CHIEF COMMERCIAL BUILDING INSPECTOR PRIOR TO CONSTRUCTION.
    - 6.6 SPECIAL INSPECTION REPORTS AND FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.
7. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, UNLESS NOTED OTHERWISE.
    - STRUCTURAL STEEL HSS SHAPES SHALL CONFORM TO ASTM A500, GRADE C.
    - MISCELLANEOUS PLATES AND CONNECTION MATERIAL SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.
2. BOLTS AND ANCHORS:
    - 2.1 BOLTED CONNECTIONS SHALL BE TYPE N (BEARING TYPE WITH THREADS INCLUDED IN SHEAR PLANE) WITH MINIMUM 3/4" DIAMETER F3125 BOLTS. SUBMIT PROPOSED BOLT TIGHTENING PROCEDURE FOR REVIEW. BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2014 (SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS).
    - 2.2 ANCHOR BOLTS SHALL BE HEADED BOLTS CONFORMING TO ASTM F1554 GRADE 36 AND SHALL BE HEADED RODS OR THREADED RODS WITH HEAVY HEXAGONAL NUT WELDED TO THE BOTTOM OF THE THREADED ROD, GRADE A563A, UNLESS NOTED OTHERWISE.
    - 2.3 EXPANSION ANCHORS SHALL HAVE BEEN EVALUATED BY THE ICC EVALUATION SERVICES, INC (ICC-ES) WITH A PUBLISHED EVALUATION REPORT. ANCHORS INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 193 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT DESIGN PROFESSIONAL FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. ALL ANCHORS SHALL BE APPROVED FOR RESISTING WIND AND SEISMIC LOADS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE EQUAL TO 4.5 TIMES THE ANCHOR DIAMETER, UNLESS NOTED OTHERWISE.
    - 2.4 ADHESIVE ANCHORS SHALL CONSIST OF AN ALL-THREAD STEEL ANCHOR WITH ADHESIVE CONFORMING TO ASTM C881-02, TYPE IV, GRADE 3, CLASS A, B, & C EXCEPT GEL TIMES AND EPOXY CONTENT. ADHESIVE SHALL CONSIST OF A TWO COMPONENT ADHESIVE SYSTEM CONTAINED IN SIDE BY SIDE PACKAGING CONNECTED TO A MIXING NOZZLE WHICH THOROUGHLY MIXES THE COMPONENTS AS IT IS INJECTED INTO THE HOLE. ADHESIVE SHALL HAVE PASSED ICC EVALUATION SERVICES, INC (ICC-ES) ACCEPTANCE CRITERIA 308 FOR LONG TERM CREEP. ANCHORS INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 308 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT DESIGN PROFESSIONAL FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE EQUAL TO 4.5 TIMES THE ANCHOR DIAMETER, UNLESS NOTED OTHERWISE.
3. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO BOTH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
4. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DESIGNED FOR THE SERVICE LOAD REACTION VALUES SHOWN ON THE STRUCTURAL DRAWINGS. FOR STEEL MEMBERS WHOSE REACTIONS ARE NOT SHOWN, THE DESIGN REACTION SHALL BE DESIGNED FOR THE SERVICE LOAD REACTION OF 10 KIPS UNLESS SHOWN OTHERWISE ON THE STRUCTURAL DRAWINGS. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE DESIGN PROFESSIONAL. **DESIGN PROFESSIONAL SHALL BE COMPENSATED BY THE CONTRACTOR FOR THE COST INVOLVED IN THE REDESIGN OF CONNECTIONS FOR THE CONVENIENCE OF THE CONTRACTOR. STEEL CONNECTIONS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY THE CONTRACTOR. THIS DESIGN SERVICE SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF SERVICES. SHOP DRAWINGS AND CALCULATIONS FOR SUCH CONNECTIONS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE.** REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. FOR CONNECTION DETAILS DEPICTING ARRANGEMENT CONCEPT OF THE CONNECTION WITHOUT COMPLETE DETAILS, THE CONNECTION DESIGN ENGINEER SHALL FOLLOW THAT ARRANGEMENT CONCEPT IN THE DESIGN. SINGLE ANGLE CONNECTIONS ARE NOT ACCEPTABLE.
5. USE PRE-QUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY D1.1/D1.1M-2015. "NON-PRE-QUALIFIED JOINTS" SHALL BE QUALIFIED PRIOR TO FABRICATION. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.

8. STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.

DEFERRED SUBMITTALS

1. DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.
2. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD THROUGH THE ARCHITECT AND GENERAL CONTRACTOR. ONCE THE SUBMITTAL DOCUMENTS HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS, THE ENGINEER OF RECORD WILL FORWARD THEM TO THE ARCHITECT WITH A NOTATION INDICATING THAT THEY ARE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE ARCHITECT WILL FORWARD THE DEFERRED SUBMITTAL DOCUMENTS TO THE GENERAL CONTRACTOR WHO WILL MAINTAIN ONE SET ON SITE FOR REFERENCE BY THE BUILDING INSPECTOR. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
3. DEFERRED SUBMITTALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS, CALCULATIONS, DESIGN LOAD DATA AND SUPPORT REACTIONS OF THE COMPONENTS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE.
4. ITEMS THAT ARE SUBMITTED FOR CONSIDERATION AS DEFERRED SUBMITTALS ARE AS FOLLOWS:
    - a. UNISTRUT CEILING GRID SYSTEM

ABBREVIATIONS

ABT	ABOUT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL/ARCHITECT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWS	AMERICAN WELDING SOCIETY
B	BOTTOM OF
BLDG	BUILDING
BM	BEAM
BOTT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
C/C	CENTER TO CENTER
CALC	CALCULATION(S)
CHKD	CHECKED
CIP	CAST-IN-PLACE CONCRETE
CJ	CONSTRUCTION CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR, CLEARANCE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
COORD	COORDINATE
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CTR	CENTER
CTRD	CENTERED
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEG	DEGREES
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIR	DIRECTION
DL	DEAD LOAD
DWG	DRAWING
(E)	EXISTING
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELEC	ELECTRICAL
ENGR	ENGINEER
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FRMG	FRAMING
FRP	FIBER REINFORCED PLASTIC
FS	FAR SIDE
FT	FOOT
FTG	FOOTING
FV	FIELD VERIFY
GA	GAGE, GAUGE
GALV	GALVANIZED (HOT DIP)
GRTG	GRATING
(H)	HORIZONTAL BEAM ORIENTATION
HCA	HEADED CONCRETE ANCHOR
HDR	HEADER
HGR	HANGER
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HANDRAIL
HSB	HIGH STRENGTH BOLT
IF	INSIDE FACE
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INT	INTERIOR
JT	JOINT
K	KIP(S)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
(LLH)	LONG LEG HORIZONTAL (ANGLE)
(LLV)	LONG LEG VERTICAL (ANGLE)
(LSH)	LONG SIDE HORIZONTAL (HSS)
(LSV)	LONG SIDE VERTICAL (HSS)
LB	POUND
LF	LINEAR FEET
LL	LIVE LOAD
LOC	LOCATION
LONG	LONGITUDINAL
LP	LOW POINT
LSH	LONG SLOTTED HOLE
LWC	LIGHT WEIGHT CONCRETE
M	MOMENT
MAX	MAXIMUM
MC	MOMENT CONNECTION
MECH	MECHANICAL
MFC	MANUFACTURED
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MTL	METAL
N&F	NEAR AND FAR
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO/NO.	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OSH	OVERSIZED HOLE
PCF	POUNDS PER CUBIC FOOT
PE	PROFESSIONAL ENGINEER
PERIM	PERIMETER
PJF	PREMOLDED JOINT FILLER
PL	PLATE
PLCS	PLACES
PLF	POUNDS PER LINEAR FOOT
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
RET	RETURN
REV	REVISION
RO	ROUGH OPENING
RTU	ROOFTOP UNIT
SC	SLIP CRITICAL
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SL	SLOPE
SPCS	SPACES
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
SSH	SHORT SLOTTED HOLE
STD	STANDARD
STIF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T/O	TOP OF
THK	THINK
THRU	THROUGH
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WITH
W/O	WITHOUT
WP	WORKING POINT
WS	WATERSTOP
WWF	WELDED WIRE FABRIC

LEGEND

STEEL COLUMN/FOOTING TYPE INDICATOR

COL	SIZE STEEL COLUMN SIZE
BP-X	BASE PLATE MARK
FX.X (-0'-0")	FOOTING MARK (T/FTG ELEVATION)
P-X (-0'-0")	PEDESTAL MARK (T/PEDESTAL ELEVATION)

FOUNDATION STEP INDICATOR

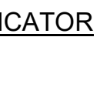
S (-x'-x")	T/FOOTING ELEVATION
(-x'-x")	T/FOOTING ELEVATION

OPENING IN FLOOR OR ROOF

RECESS/DEPRESSION INDICATOR

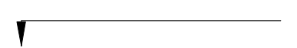
STRUCTURAL STEEL CONNECTION AXIAL FORCE

SLOPE INDICATOR

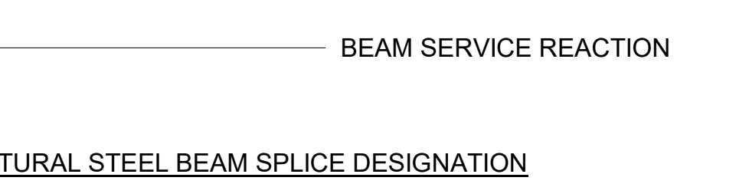


CONCRETE SLAB/METAL DECK SPAN INDICATOR

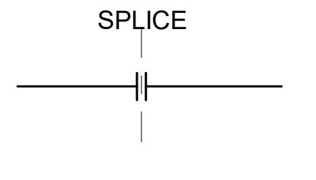
STRUCTURAL STEEL MOMENT CONNECTION



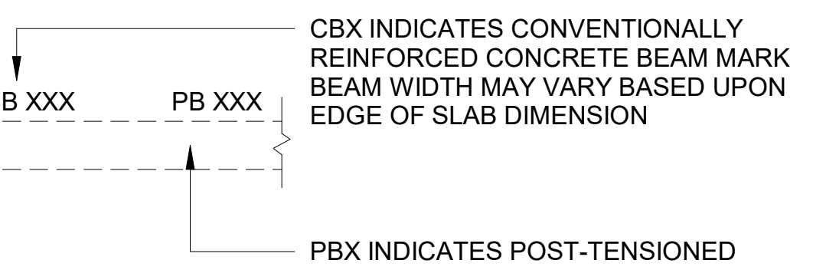
STRUCTURAL STEEL BEAM DESIGNATION



STRUCTURAL STEEL BEAM SPLICE DESIGNATION



STRUCTURAL CONCRETE BEAM DESIGNATION



CBX INDICATES CONVENTIONALLY REINFORCED CONCRETE BEAM MARK BEAM WIDTH MAY VARY BASED UPON EDGE OF SLAB DIMENSION

PBX INDICATES POST-TENSIONED CONCRETE BEAM MARK, BEAM WIDTH MAY VERY BASED UPON EDGE OF SLAB DIMENSION

No. SE000174
STRUCTURAL
HOLLY C JEFFREYS

RANDALL
PAULSON
architects
Roswell . Nashua

SHEAR
STRUCTURAL
931 MONROE DRIVE
SUITE A102-491
ATLANTA, GA 30308
678.664.8051
SHEARSTRUCTURAL.COM

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

architecture/interiors

INTERIOR
RENOVATION

at

MARCUS
STROKE AND
NEUROSCIENCE
ANGIO 1
REPLACEMENT

for

Grady

GRADY MEMORIAL HOSPITAL
SUITE 8-A
80 JESSE HILL, JUNIOR DRIVE
SE
ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	VL	HJ
25 APR 25	ISSUE FOR PERMIT	VL	HJ

Revisions

Date
25 APRIL 2025

Project No.
2024509.00

Sheet Title
GENERAL NOTES,
ABBREVIATIONS, & LEGEND

Sheet No.
S-001

■ Released for Construction
☐ Not Released for Construction

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: INTERIOR RENOVATION AT MARCUS STROKE AND NEUROSCIENCE ANGIO 1 REPLACEMENT FOR GRADY MEMORIAL HOSPITAL
LOCATION: 80 JESSE HILL, JUNIOR DRIVE SE, ATLANTA, GA 30303
PERMIT APPLICANT: RANDALL-PAULSON ARCHITECTS
APPLICANT'S ADDRESS: 85-A MILL STREET, SUITE 200, ROSWELL, GEORGIA 30075
ARCHITECT OF RECORD: ____________
STRUCTURAL ENGINEER OF RECORD: HOLLY JEFFREYS, P.E., S.E. ; SHEAR STRUCTURAL
MECHANICAL ENGINEER OF RECORD: ____________
ELECTRICAL ENGINEER OF RECORD: ____________
REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: ____________

This Statement of Special Inspections is submitted in accordance with Section 1704.3 of the 2018 International Building Code. It includes a *Schedule of Special Inspection Services* applicable to the above-referenced Project as well as the identity of the individuals, agencies, or firms intended to be retained for conducting these inspections. If applicable, it includes *Requirements for Seismic Resistance* and/or *Requirements for Wind Resistance*.

Are *Requirements for Seismic Resistance* included in the *Statement of Special Inspections*? No

Are *Requirements for Wind Resistance* included in the *Statement of Special Inspections*? No

The Special Inspector(s) shall keep records of all inspections and shall furnish interim inspection reports to the Building Official and to the Registered Design Professional in Responsible Charge at a frequency agreed upon by the Design Professional and the Building Official prior to the start of work. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge prior to completion of that phase of work. A *Final Report of Special Inspections* documenting required special inspections and corrections of any discrepancies noted in the inspections shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge at the conclusion of the project.

Frequency of interim report submittals to the Registered Design Professional in Responsible Charge:

__Weekly _X_Bi-Weekly __Monthly Other; specify:______

The Special Inspection program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of the Contractor.

Statement of Special Inspections Prepared by:

____
Type or print name

____________________ SEE TITLEBLOCK
Signature Date

Building Official's Acceptance:

____
Signature Date
Permit Number:

Frequency of interim report submittals to the Building Official:

__Monthly __Bi- Monthly __Upon Completion Other; specify:______

Special Inspections for Seismic Resistance

See the Schedule of Special Inspections for inspection and testing requirements

Seismic Design Category: D

Statement of Special Inspection for Seismic Resistance Required (Yes/No): No

Description of seismic force-resisting system subject to special inspection and testing for seismic resistance:
(Where required per IBC Sections 1705.12.1, 1705.12.2, and 1705.12.3) (Special inspections for seismic resistance of structural steel, where required, shall be in accordance with AISC 341)

N/A

Description of designated seismic systems subject to special inspection and testing for seismic resistance:
(Required for architectural, electrical and mechanical systems and their components that require design in accordance with Chapter 13 of ASCE 7, have a component importance factor, *Ip*, greater than one and are in Seismic Design Categories C, D, E or F.)

Description of additional seismic systems and components requiring special inspections:
(Required for systems noted in IBC Section 1705.12.5, 1705.12.6, 1705.12.7, and 1705.12.8.)

Description of additional seismic systems and components requiring testing:
(Where required per IBC Section 1705.13)

Statement of Responsibility:
Each contractor responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.

Special Inspections for Wind Resistance

See the Schedule of Special Inspections for inspection and testing requirements

Allowable Stress Design Wind Speed, V_{asd}: 92 m.p.h.

Wind Exposure Category: B

Statement of Special Inspection for Wind Resistance Required (Yes/No): No
(Required in wind exposure Category B, where the allowable stress design wind speed, V_{asd}, is 120 miles per hour or greater. Required in wind exposure Category C or D, where the allowable stress design wind speed, V_{asd}, is 110 miles per hour or greater.)

Description of structural wood and cold-formed steel light frame construction main windforce-resisting system subject to special inspections for wind resistance:
(Required for systems noted in IBC Section 1705.11.1 and 1705.11.2).

N/A

Description of windforce-resisting components subject to special inspections for wind resistance:
(Required for systems and components noted in IBC Section 1705.11.3)

Statement of Responsibility:
Each contractor responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.

TABLE 1704.2 MINIMUM SPECIAL INSPECTOR QUALIFICATIONS

Category of Testing and Inspection	Minimum Qualifications (refer to key at end of Table)		
	Shop Testing or Inspection	Field Testing or Inspection	Review Testing, Certification& Lab Reports
1704.2.5 Inspection of Fabricators			
Pre-cast concrete	A, C, E		
Structural steel construction	C, F, G		
Wood construction	A		
Cold formed metal construction	A		
1705.2, 1705.10, 1705.11& 1705.12 Steel Construction			
Verification of welding consumables, filler metals, procedure specifications, procedure qualification records and personnel performance qualification records			C, F
Nondestructive testing of welding	G	G	
Inspection of welding	C, F	C, F	
Verification of fabricator and erector documents as listed in AISC 360, chapter N, paragraph 3.2			A, C
Material verification of weld filler materials			C, F
Inspection of high strength bolting and steel frame joint details		A, C	
Inspection of embedment		A, C, F	
Inspection of steel elements of composite construction		A, C, F	
Verification of reinforcing steel, cold formed steel deck and truss materials			A, C, F
Inspection of reinforcing steel, cold formed steel deck and trusses		A, C	
1705.3 & 1705.12 Concrete Construction			
Reinforcing placement, cast-in-place bolts, post installed anchors concrete and shotcrete placement and curing operations. Inspection of formwork for shape, location, and dimensions.		A, C, H	
Pre-stressing steel installation		A, C, D, E	
Erection of pre-cast concrete members		A, C, H	
Concrete field sampling and field testing		A, J	
Concrete strength testing		P	
Review certified mill reports			A, C
Verify use of required design mix		A, I, J, H, C	
Pre-stressed (pre-tensioned) concrete force application	A, C, E		
Post-tensioned concrete force application		A, C, D	
Review of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.		A, C, D, H	
Reinforcing steel weldability, reinforcing welding, weld filler material		C, F	
Testing of welding of reinforcing steel		G	
1705.4 Masonry			
Verification of f'm and f'AAC		A, C, L, M	
Mortar joint construction, grout protection and placement, materials proportion, type/size/location of reinforcement, structural elements, anchorage, and connectors		A, C, K	
Sampling/testing of grout/mortar specimens		A, C, L, M	
Observe preparation of masonry prisms for testing of compressive strength of masonry, f'_m and f'_{AAC}		A, C, K, L, M	
Inspection of welding of reinforcing steel		C, F	
Testing of welding of reinforcing steel		G	
1705.6 & 1804 Soils			
Observe site preparation, fill placement testing of compaction for compliance with the construction documents for the project		A, C, I, N	
Observe test bearing materials below shallow foundations for ability to achieve design bearing capacity		A, C, I, N (Level III)	
Review compaction testing for compliance with the construction documents for the project			A
1705.5, 1705.10, 1705.11 & 1705.12 Wood Construction			
Observe structural panel sheathing, size of framing members, nail or staple diameter and length, number of fastener lines, and spacing of fastener lines and fasteners for compliance with construction documents for the project		A	
Observe temporary and permanent truss member restraint/bracing, field gluing of elements. Observe bolting, anchoring or other fastening of: shear walls, diaphragms, drag struts, braces and hold-downs		A	

TABLE 1704.2 MINIMUM SPECIAL INSPECTOR QUALIFICATIONS

Category of Testing and Inspection	Minimum Qualifications (refer to key at end of Table)		
	Shop Testing or Inspection	Field Testing or Inspection	Review Testing, Certification& Lab Reports
1705.7, 1705.8, 1705.9 & 1810 Pile and Pier Foundations			
Observe installation		A, N	
Observe load tests		A	
1705.13 Sprayed Fire-Resistant Materials			
Observe surface conditions, application, average thickness and density of applied material, and cohesive/adhesive bond		A, C	
1705.14 Mastic and Intumescent Fire-Resistant Coatings			
Observe application compliance with AWCI 12-B		A, C	
1705.15 Exterior Insulation and Finish Systems			
Inspect EIFS systems		A, B, C, O	
1705.1 Special Cases			
Work of unusual or special nature		A, B, O	
1705.16 Fire-Restraint Penetrations and Joints	*See Requirements of IBC Sections 1705.16.1 and 1705.16.2*		
1705.17 Smoke Control	*See Requirements of IBC Section 1705.17.2*		
1705.10, 1705.11 & 1705.12 Seismic and Wind Resistance			
Periodic inspection of fabrication, installation and/or anchorage of building systems and components		A	

KEY:
A. Georgia Professional Engineer (GA PE) competent in the specific task area or graduate of accredited engineering/engineering technology program under the direct supervision of a GA PE.
B. Georgia Registered Architect (GA RA) or graduate of accredited architecture/architecture technology program under the direction of a GA RA.
C. International Code Council (ICC) Special Inspector Certification specific to the particular material and testing methodology applicable to each Category of Testing and Inspection listed in the table.
D. Post-tensioning Institute (PTI) Certification, Level 2, bonded or unbonded as applicable.
E. Pre-stressed Concrete Institute (PCI) Certified Inspector.
F. American Welding Society (AWS) Certified Welding Inspector (CWI) or AWS Certified Associate Welding Inspector working under the direct on-site supervision of a CWI.
G. American Society for Nondestructive Testing (ASNT) Level II certification, or a Level III certification if previously certified as a Level II in the particular material and testing methodology applicable to each Category of Testing and Inspection listed in the table.
H. American Concrete Institute (ACI) Concrete Construction Special Inspector.
I. National Institute for Certification in Engineering Technologies (NICET) Level II or higher certification specific to the particular material and testing methodology applicable to each Category of Testing and Inspection listed in the table.
J. ACI Concrete Field Testing Technician with Grade 1 certification.
K. Georgia Concrete and Products Association (GC&PA) – Masonry Association of Georgia (MAG) Masonry Construction Inspector Certification.
L. National Concrete Masonry Association (NCMA) Concrete Masonry Testing Procedures certification.
M. GC&PA – MAG Masonry Testing Technician certification.
N. NICET Certified Engineering Technologist (CT).
O. Other Qualified Special Inspector as approved by the Building Official.
P. American Concrete Institute (ACI) Strength Testing Technician.

Notes:
1. The Special Inspector shall meet one of the minimum qualifications listed for the applicable Category of Testing and Inspection.
2. Materials testing shall be done by an Approved Testing Agency meeting the requirements of IBC Section 1703 and ASTM E 329.

HOLLY C JEFFREYS
No. SE000174

RANDALL PAULSON
architects
Roswell . Nashua

SHEAR
STRUCTURAL
931 MONROE DRIVE
SUITE A102-491
ATLANTA, GA 30308
678.664.8051
SHEARSTRUCTURAL.COM

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

architecture/interiors

INTERIOR
RENOVATION

at

MARCUS
STROKE AND
NEUROSCIENCE
ANGIO 1
REPLACEMENT

for

Grady

GRADY MEMORIAL HOSPITAL
SUITE 8-A
80 JESSE HILL, JUNIOR DRIVE
SE
ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	VL	HJ
25 APR 25	ISSUE FOR PERMIT	VL	HJ

Revisions

Date: 25 APRIL 2025
Project No.: 2024509.00

Sheet Title
SCHEDULE OF SPECIAL INSPECTIONS

Sheet No.
S-002

☒ Released for Construction
☐ Not Released for Construction

SCHEDULE OF SPECIAL INSPECTION SERVICES

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT	AGENT*	DATE COMPLETED
PROJECT	MARKUS STROKE AND NEUROSCIENCE ANGIO 1 REPLACEMENT				
1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's requirements - add additional rows as needed.)	Submittal review, shop (3) and/or field inspection			N	
1. Inspection of anchors post-installed in solid grouted masonry: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, masonry unit, grout, masonry compressive strength, anchor embedment and tightening torque	Field inspection	N	Periodic or as required by the research report issued by an approved source		
2. Aggregate Pier Inspection: The special inspector's responsibilities include, but are not limited to, review of the aggregate pier designer's use of soil parameters as presented in the project soils report, and during construction, verification of aggregate properties, type and number of lifts of aggregate, hole size and depths and top elevations of the pier elements, and applied energy. Additionally, results of qualitative tests on production aggregate pier elements such as modulus load testing, uplift pull-out testing, bottom stabilization tests and dynamic cone penetration tests, shall be reviewed to verify compliance with design specifications.	Field inspection	N	Periodic or as required by the research report issued by an approved source		
1705.2.1 Structural Steel Construction					
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents)	Submittal Review	N	Each submittal		
2. Material verification of structural steel	Shop (3) and field inspection	N	Periodic		
3. Structural steel welding:		N			
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	Shop (3) and field inspection	N	Observe or Perform as noted (4)		
b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2)	Shop (3) and field inspection	N	Observe (4)		
c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3)	Shop (3) and field inspection	N	Observe or Perform as noted (4)		
d. Nondestructive testing (NDT) of welded joints: *see Commentary*		N			
1) Complete penetration groove welds 5/16" or greater in risk category III or IV	Shop (3) or field ultrasonic testing - 100%	N	Periodic		
2) Complete penetration groove welds 5/16" or greater in risk category II	Shop (3) or field ultrasonic testing - 10% of welds minimum	N	Periodic		
3) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1	Shop (3) or field radiographic or Ultrasonic testing	N	Periodic		
4) Fabricator's NDT reports when fabricator performs NDT	Verify reports	N	Each submittal (5)		
4. Structural steel bolting:	Shop (3) and field inspection	N			
a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1)		N	Observe or Perform as noted (4)		
b.Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)		N	Observe (4)		
1) Pre-tensioned and slip-critical joints		N			
a) Turn-of-nut with matching markings		N	Periodic		
b) Direct tension indicator		N	Periodic		
c) Twist-off type tension control bolt		N	Periodic		
d) Turn-of-nut without matching markings		N	Continuous		
e) Calibrated wrench		N	Continuous		
2) Snug-tight joints		N	Periodic		
c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3)		N	Perform (4)		
5. Visual inspection of exposed cut surfaces of galvanized structural steel main members and exposed corners of the rectangular HSS for cracks subsequent to galvanizing	Shop (3) and field inspection and testing	N	Periodic		
6. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection	N	Periodic		
7. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	N	Periodic		
1705.2.2 Cold-Formed Steel Deck					
1. Manufacturer documents (Verify reports and certificates as listed in SDI QA/QC, Section 2, Paragraphs 2.1 and 2.2 for compliance with construction documents)	Submittal Review	N	Each submittal		
2. Material verification of steel deck, mechanical fasteners and welding materials:	Shop (3) and field inspection	N	Periodic		
3. Cold-formed steel deck placement:	Shop (3) and field inspection	N			
a. Inspection tasks Prior to Deck Placement (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.1)		N	Perform (4)		
b. Inspection tasks After Deck Placement (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.2)		N	Perform (4)		
4. Cold-formed steel deck welding:	Shop (3) and field inspection	N			
a. Inspection tasks Prior to Welding (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.3)		N	Observe (4)		
b. Inspection tasks During Welding (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.4)		N	Observe (4)		
c. Inspection tasks After Welding (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.5)		N	Perform (4)		
5. Cold-formed steel deck mechanical fastening:	Shop (3) and field inspection	N			
a. Inspection tasks Prior to Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.6)		N	Observe (4)		
b. Inspection tasks During Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.7)		N	Observe (4)		
c. Inspection tasks After Mechanical Fastening (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.8)		N	Perform (4)		
1705.2.3. Open-Web Steel Joists and Joist Girders					
1. Installation of open-web steel joists and joist girders.		N			
a. End connections - welding or bolted.	per SJI CJ or SJI 100	N	Periodic		
b. Bridging - horizontal or diagonal.		N			
1) Standard bridging.	per SJI CJ or SJI 100	N	Periodic		
2) Bridging that differs from the specifications listed in SJI CJ or SJI 100.		N	Periodic		
1705.2.4. Cold-Formed Steel Trusses Spanning 60 feet or Greater					
Verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N			
1705.3 Concrete Construction					
1. Inspection and placement verification of reinforcing steel and prestressing tendons.	Shop (3) and field inspection	N	Periodic		
2. Reinforcing bar welding:		N			
a. Verification of weldability of bars other than ASTM A706.		N	Periodic		
b. Inspection of single-pass fillet welds 5/16 or less in size.		N	Periodic		
c. Inspection of all other welds.		N	Continuous		
3. Inspection of anchors cast in concrete.	Shop (3) and field inspection	N	Periodic		
4. Inspection of anchors post-installed in hardened concrete members per research reports, or, if no specific requirements are provided, requirements shall be provided by the registered design professional and approved by the building official, including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque	Field inspection	Y	Periodic or as required by the research report issued by an approved source		
a. Adhesive anchors installed in horizontal or upward-inclined orientation that resist sustained tension loads.		N	Continuous		
b. Mechanical and adhesive anchors not defined in 4a.		Y	Periodic		
5. Verify use of approved design mix	Shop (3) and field inspection	N	Periodic		
6. Prior to placement, fresh concrete sampling, perform slump and air content tests and determine temperature of concrete and perform any other tests as specified in construction documents.	Shop (3) and field inspection	N	Continuous		
7. Inspection of concrete and shotcrete placement for proper application techniques	Shop (3) and field inspection	N	Continuous		
8. Verify maintenance of specified curing temperature and techniques	Shop (3) and field inspection	N	Periodic		
9. Inspection of prestressed concrete:	Shop (3) and field inspection	N			
a. Application of prestressing force		N	Continuous		
b. Grouting of bonded prestressing tendons		N	Continuous		
10. Inspect erection of precast concrete members		N	Periodic		
11. Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs	Review field testing and laboratory reports	N	Periodic		
12. Inspection of formwork for shape, lines, location and dimensions	Field inspection	N	Periodic		
13. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	N	Periodic		
1705.4 Masonry Construction					
MINIMUM VERIFICATION REQUIREMENTS					
(A) Level 1, 2 and 3 Quality Assurance:					
1. Prior to construction, verification of compliance of submittals	Submittal Review	N	Prior to Construction		
(B) Level 2 & 3 Quality Assurance:					
1. Prior to construction verification of f'm and f'AAC except where specifically required by the code	Testing by unit strength method or prism test method	N	Prior to Construction		
2. During construction, verification of Slump Flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to project site.	Testing by unit strength method or prism test method	N	Periodic		
(C) Level 3 Quality Assurance:					
1. During construction, verification of f'm and f'AAC for every 5,000 SF	Testing by unit strength method or prism test method	N	Periodic		
2. During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout.	Field inspection	N	Periodic		
MINIMUM SPECIAL INSPECTION REQUIREMENTS					
(D) Levels 2 and 3 Quality Assurance:					
1. As masonry construction begins, verify that the following are in					
a. Proportions of the site-prepared mortar	Field inspection	N	Periodic		
b. Grade and size of prestressing tendons and anchorages	Field inspection	N	Periodic		
c. Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages	Field inspection	N	Periodic		
d. Prestressing technique	Field inspection	N	Periodic		
e. Properties of thin-bed mortar for AAC masonry (b) Required for the first 5,000 square feet (c) Required after the first 5,000 square feet	Field inspection	N	Level 2 - Continuous (b) Level 2 - Periodic (c)		
		N	Level 3 - Continuous		
f. Sample panel construction	Field inspection	N	Level 2 - Periodic		
		N	Level 3 - Continuous		
2. Prior to grouting, verify that the following are in compliance:					
a. Grout space	Field inspection	N	Level 2 - Periodic		
		N	Level 3 - Continuous		
b. Placement of prestressing tendons and anchorages	Field inspection	N	Periodic		
c. Placement of reinforcement, connectors, and anchor bolts	Field inspection	N	Level 2 - Periodic		
		N	Level 3 - Continuous		
d. Proportions of site-prepared grout and prestresssing grout for bonded tendons	Field inspection	N	Periodic		
3. Verify compliance of the following during construction:					
a. Materials and procedures with the approved submittals	Field inspection	N	Periodic		
b. Placement of masonry units and mortar joint construction	Field inspection	N	Periodic		
c. Size and location of structural members	Field inspection	N	Periodic		
d. Type, size, location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	Field inspection	N	Level 2 - Periodic		
		N	Level 3 - Continuous		
e. Welding of reinforcement	Field inspection	N	Continuous		
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)	Field inspection	N	Periodic		
g. Application and measurement of prestressing force	Field testing	N	Continuous		
h. Placement of grout and prestressing grout for bonded tendons is in compliance	Field inspection	N	Continuous		
i. Placement of AAC masonry units and construction of thin-bed mortar joints (b) Required for the first 5,000 square feet (c) Required after the first 5,000 square feet	Field inspection	N	Level 2 - Continuous (b) Level 2 - Periodic (c)		
		N	Level 3 - Continuous		
4. Observe preparation of grout specimens, mortar specimens, and/or prisms	Field inspection	N	Level 2 - Periodic		
		N	Level 3 - Continuous		
1705.5 Wood Construction					
1. For prefabricated wood structural elements, inspection of the fabrication process and assemblies in accordance with Section 1704.2.5.	In-plant review (3)	N	Periodic		
2. For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with approved building plans.	Field inspection	N	Periodic		
3. For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans	Field inspection	N	Periodic		
4. Metal-plate-connected wood trusses:		N			
a. Verification that permanent individual truss member restraint/bracing has been installed in accordance with the approved truss submittal package when the truss height is greater than or equal to 60".	Field inspection	N	Periodic		
b. For trusses spanning 60 feet or greater: verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N	Periodic		
1705.6 Soils					
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	N	Periodic		
2. Verify excavations are extended to proper depth and have reached proper material.	Field inspection	N	Periodic		
3. Perform classification and testing of controlled fill materials.	Field inspection	N	Periodic		
4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Field inspection	N	Continuous		
5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Field inspection	N	Periodic		
1705.7 Driven Deep Foundations					
1. Verify element materials, sizes and lengths comply with requirements	Field inspection	N	Continuous		
2. Determine capacities of test elements and conduct additional load tests, as required	Field inspection	N	Continuous		
3. Observe driving operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
4. Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element	Field inspection	N	Continuous		
5. For steel elements, perform additional inspections per Section 1705.2	See Section 1705.2	N	See Section 1705.2		
6. For concrete elements and concrete-filled elements, perform additional inspections per Section 1705.3	See Section 1705.3	N	See Section 1705.3		
7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge	Field inspection	N	In accordance with construction documents		
1705.8 Cast-in-Place Deep Foundations					
1.Inspect drilling operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes	Field inspection	N	Continuous		
3. For concrete elements, perform additional inspections in accordance with Section 1705.3	See Section 1705.3	N	See Section 1705.3		
1705.9 Helical Pile Foundations					
Verify installation equipment, pile dimensions, tip elevations, final depth, final installation torque and other installation data as required by construction documents.	Field inspection	N	Continuous		
1705.10 Fabricated items					
1. List of fabricated items requiring special inspection during fabrication:	Shop inspection	Y	As noted in each applicable shop activity		
a. Unistrut Ceiling Grid Support		Y			
2. List of fabricated items to be fabricated on the premises of a fabricator approved to perform such work without special inspection (including name of approved agency providing periodic auditing):		N			
1705.11.1 Structural Wood Special Inspections For Wind Resistance					
1. Inspection of field gluing operations of elements of the main windforce-resisting system	Field inspection	N	Continuous		
2. Inspection of nailing, bolting, anchoring and other fastening of components within the main windforce-resisting system	Shop (3) and field inspection	N	Periodic		
1705.11.2 Cold-formed Steel Special Inspections For Wind Resistance					
1.Inspection during welding operations of elements of the main windforce-resisting system	Shop (3) and field inspection	N	Periodic		
2.Inspection of screw attachment, bolting, anchoring and other fastening of components within the main windforce-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.	Shop (3) and field inspection	N	Periodic		
1705.11.3 Wind-resisting Components					
1. Roof covering, roof deck and roof framing connections.	Shop (3) and field inspection	N	Periodic		
2. Exterior wall covering and wall connections to roof and floor diaphragms.	Shop (3) and field inspection	N	Periodic		
1705.12.1 Structural Steel Special Inspections for Seismic Resistance					
1. Seismic force-resisting systems in SDC B, C, D, E, or F.	Shop (3) and field inspection	N	In accordance with AISC 341		
2. Structural steel elements in SDC B, C, D, E, or F other than those in Item 1. including struts, collectors, chords and foundation elements.	Shop (3) and field inspection	N	In accordance with AISC 341		
1705.12.2 Structural Wood Special Inspections for Seismic Resistance					
1. Field gluing operations of elements of the seismic-force resisting system for SDC C, D, E or F.	Field inspection	N	Continuous		
2. Nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system including wood shear walls, wood diaphragms, drag struts, shear panels and hold-downs for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		
1705.12.3 Cold-formed Steel Light-Frame Construction Special Inspections for Seismic Resistance					
1. During welding operations of elements of the seismic-force-resisting system for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		
2. Screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs for SDC C, D, E or F.	Shop (3) and field inspection	N	Periodic		
1705.12.4 Designated Seismic Systems Verification					
For SDC C, D, E or F, inspect and verify that that the component label, anchorage or mounting conforms to the certificate of compliance in accordance with ASCE 7 Section 13.2.2.	Field inspection	N	Periodic		
1705.12.5 Architectural Components Special Inspections for Seismic Resistance					
1. For SDC D, E or F, inspection during the erection and fastening of exterior cladding and interior or exterior veneer more than 30 feet above grade or walking surface and weighing more than 5 psf.	Field inspection	N	Periodic		
2. For SDC D, E or F, inspection during the erection and fastening of interior nonbearing walls more than 30 feet above grade or walking surface and weighing more than 15 psf.	Field inspection	N	Periodic		
3. For SDC D, E or F, inspection during the erection and fastening of exterior nonbearing walls more than 30 feet above grade or walking surface.		N			
4. For SDC D, E or F, inspection during anchorage of access floors	Field inspection	N	Periodic		
1705.12.6 Mechanical and Electrical Components Special Inspections for Seismic Resistance					
1. Inspection during the anchorage of electrical equipment for emergency or standby power systems in SDC C, D, E or F	Field inspection	N	Periodic		
2. Inspection during the anchorage of other electrical equipment in SDC E or F	Field inspection	N	Periodic		
3. Inspection during installation and anchorage of piping systems designed to carry hazardous materials, and their associated mechanical units in SDC C, D, E or F	Field inspection	N	Periodic		
4. Inspection during the installation and anchorage of HVAC ductwork that will contain hazardous materials SDC C, D, E or F	Field inspection	N	Periodic		
5. Inspection during the installation and anchorage of vibration isolation systems in SDC C, D, E or F where nominal clearance of 1/4 inch or less is required by the approved construction documents	Field inspection	N	Periodic		
6. Inspection during installation of mechanical and electrical equipment, including duct work, piping systems and their structural supports, where automatic fire sprinkler systems are installed in structures assigned to SDC C, D, E, or F to verify one of the following unless flexible sprinkler hose fittings are used:		N			
a. ASCE/SEI 7, Section 13.2.3 minimum required clearances have been provided.	Field inspection	N	Periodic		
b. A three inch or greater nominal clearance has been provided between fire protection sprinkler system drops and sprigs and: structural members not used collectively or independently to support the sprinklers; equipment attached to the building structure; and other systems' piping.	Field inspection	N	Periodic		
1705.12.7 Storage Racks Special Inspections for Seismic Resistance					
Inspection during the anchorage of storage racks 8 feet or greater in height in structures assigned to SDC D, E or F.	Field inspection	N	Periodic		
1705.12.8 Seismic Isolation Systems					
Inspection during the fabrication and installation of isolator units and energy dissipation devices used as part of the seismic isolation system in structures assigned to SDC B, C, D, E or F.	Shop and field inspection	N	Periodic		
1705.12.9 Cold-formed Steel Special Bolted Moment Frames					
Inspection of installation of cold-formed steel special bolted moment frames in the seismic force-resisting systems in structures assigned to SDC D, E or F.	Field inspection	N	Periodic		
1705.13.1 Structural Steel Testing for Seismic Resistance					
1. Nondestructive testing of structural steel in the seismic force-resisting systems in accordance with AISC 341 in structures assigned to SDC B, C, D, E or F.	Field test	N	Periodic		
2. Nondestructive testing of structural steel elements in the seismic force-resisting systems not covered in 1 above including struts, collectors, chords and foundation elements in accordance with AISC 341 in structures assigned to SDC B, C, D, E or F.	Field test	N	Periodic		
1705.13.2 Seismic Certification of Nonstructural Components					
Review certificate of compliance for designated seismic system components in structures assigned to SDC B, C, D, E or F.	Certificate of compliance review	N	Each submittal		
1705.13.3 Seismic Certification of Designated Seismic Systems					
Review certificate of compliance for designated seismic system components in structures assigned to SDC B, C, D, E or F.	Certificate of compliance review	N	Each submittal		
1705.13.4 Seismic Isolation Systems					
Test seismic isolation system in accordance with ASCE 7 Section 17.8 in structures assigned to SDC B, C, D, E or F.	Prototype testing	N	Per ASCE 7		
1705.14 Sprayed Fire-resistant Materials					
1. Verify surface condition preparation of structural members	Field inspection	N	Periodic		
2. Verify minimum thickness of sprayed fire-resistant materials applied to structural members	Field inspection	N	Periodic		
3. Verify density of the sprayed fire-resistant material complies with approved fire-resistant design	Field inspection and testing	N	Per IBC Section 1705.13.5		
4. Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material	Field inspection and testing	N	Per IBC Section 1705.13.6		
5. Condition of finished application	Field inspection	N	Periodic		
1705.15 Mastic and Intumescent Fire-Resistant Coatings					
Inspect and test mastic and intumescent fire-resistant coatings applied to structural elements and decks per AWCI 12-B	Field inspection	N	Periodic		
1705.16 Exterior Insulation and Finish Systems (EIFS)					
Inspection of water-resistive barrier over sheathing substrate	Field inspection	N	Periodic		
1705.17 Fire-Resistant Penetrations and Joints					
1. Inspect penetration firestop	Field testing	N	Per ASTM E2174		
2. Inspect fire-resistant joint systems	Field testing	N	Per ASTM E2393		
1705.18 Smoke Control Systems					
1. Leakage testing and recording of device locations prior to concealment	Field testing	N	Periodic		
2. Prior to occupancy and after sufficient completion, pressure difference testing, flow measurements, and detection and control verification	Field testing	N	Periodic		

*** INSPECTION AGENTS**

FIRM	ADDRESS	TELEPHONE NO.
1. UNITED CONSULTING	625 HOLCOMB BRIDGE RD, NORCROSS, GA	(770) 209-0029
2. GEOHYDRO ENGINEERS	1000 COBB PL BLVD #290, KENNESAW, GA	(770) 426-7100
3. TERRACON	2105 NEWPOINT PL #600, LAWRENCEVILLE, GA	(770) 623-0755
4.		

Notes:

1. *The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.*
2. *The list of Special Inspectors may be submitted as a separate document, if noted so above.*
3. *Special Insepctions as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.2.*
4. *Observe on a random basis, operations need not be delayed pending these inspections. Perform these tasks for each welded joint, bolted connection, or steel element.*
5. *NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7.*

Are *Requirements for Seismic Resistance* included in the *Statement of Special Inspections*?	No
Are *Requirements for Wind Resistance* included in the *Statement of Special Inspections*?	No

DATE: SEE TITLEBLOCK

No. SE000174
HOLLY C JEFFREYS

RANDALL
PAULSON
architects
Roswell . Nashua

SHEAR
STRUCTURAL
931 MONROE DRIVE
SUITE A102-491
ATLANTA, GA 30308
678.664.8051
SHEARSTRUCTURAL.COM

Roswell Mill
85-A Mill Street, Suite 200
Roswell, Georgia 30075
770.650.7558
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architecture/interiors

INTERIOR RENOVATION

at

MARCUS STROKE AND NEUROSCIENCE ANGIO 1 REPLACEMENT

for

Grady

GRADY MEMORIAL HOSPITAL
SUITE 8-A
80 JESSE HILL, JUNIOR DRIVE
SE
ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	VL	HJ
25 APR 25	ISSUE FOR PERMIT	VL	HJ

Revisions

Date	Project No.
25 APRIL 2025	2024509.00

Sheet Title
SCHEDULE OF SPECIAL INSPECTIONS

Sheet No.
S-003

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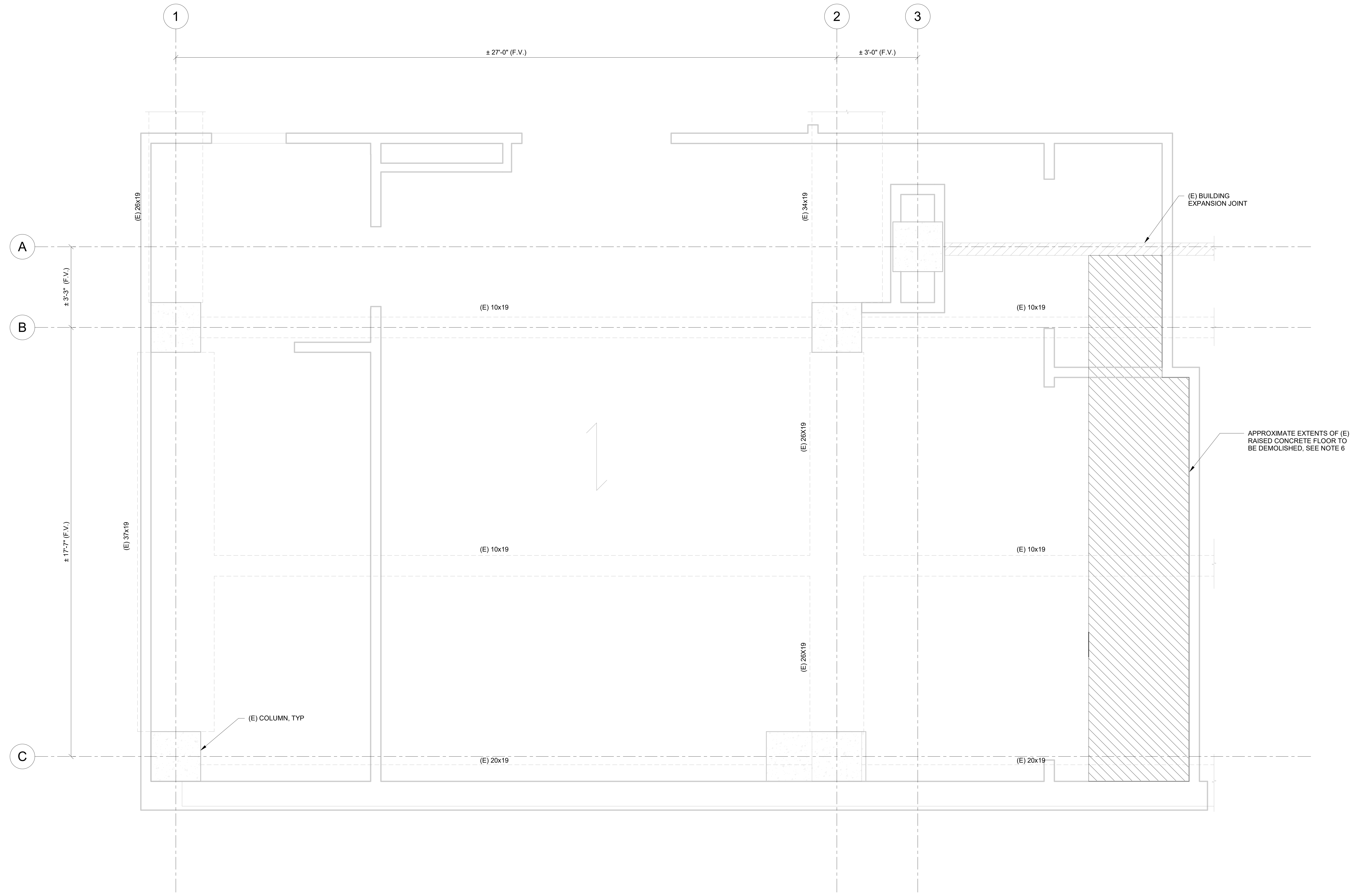
1
2
3
± 27'-0" (F.V.)
± 3'-0" (F.V.)
A
B
C
± 3'-3" (F.V.)
± 17'-7" (F.V.)
(E) 26x19
(E) 34x19
(E) 37x19
(E) 26X19
(E) 26X19
(E) 10x19
(E) 10x19
(E) 10x19
(E) 10x19
(E) 20x19
(E) 20x19
(E) BUILDING EXPANSION JOINT
APPROXIMATE EXTENTS OF (E) RAISED CONCRETE FLOOR TO BE DEMOLISHED, SEE NOTE 6
(E) COLUMN, TYP

1
S-100

PARTIAL 8TH FLOOR FLOOR DEMOLITION PLAN

1/2" = 1'-0"

NOTES:

1. SEE S-001 FOR STRUCTURAL GENERAL NOTES.
2. SEE ARCH FOR ADDITIONAL INFORMATION AND DIMENSIONS.
3. (E) DENOTES EXISTING ELEMENT.
4. EXISTING STRUCTURE SHOWN IS BASED ON AS-BUILT DRAWINGS BY URS CONSULTANTS DATED OCTOBER 8, 1993. CONTRACTOR TO FIELD VERIFY (F.V.) ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. ⟷ INDICATES DIRECTIONAL SPAN OF (E) 5" CONCRETE SLAB (F.V.) OVER (E) CONCRETE JOISTS.
6. CONTRACTOR TO F.V. EXTENTS OF (E) RAISED CONCRETE FLOOR. CARE SHALL BE TAKEN TO NOT DAMAGE (E) CONCRETE FLOOR SLAB AND (E) CONCRETE JOISTS BELOW.

No. SE000174
HOLLY C JEFFREYS

RANDALL
PAULSON
architects
Roswell . Nashua

SHEAR
STRUCTURAL
931 MONROE DRIVE
SUITE A102-491
ATLANTA, GA 30308
678.664.8051
SHEARSTRUCTURAL.COM

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Project No.
2024509.00

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PARTIAL 8TH FLOOR
DEMOLITION PLAN

Sheet No.
S-100

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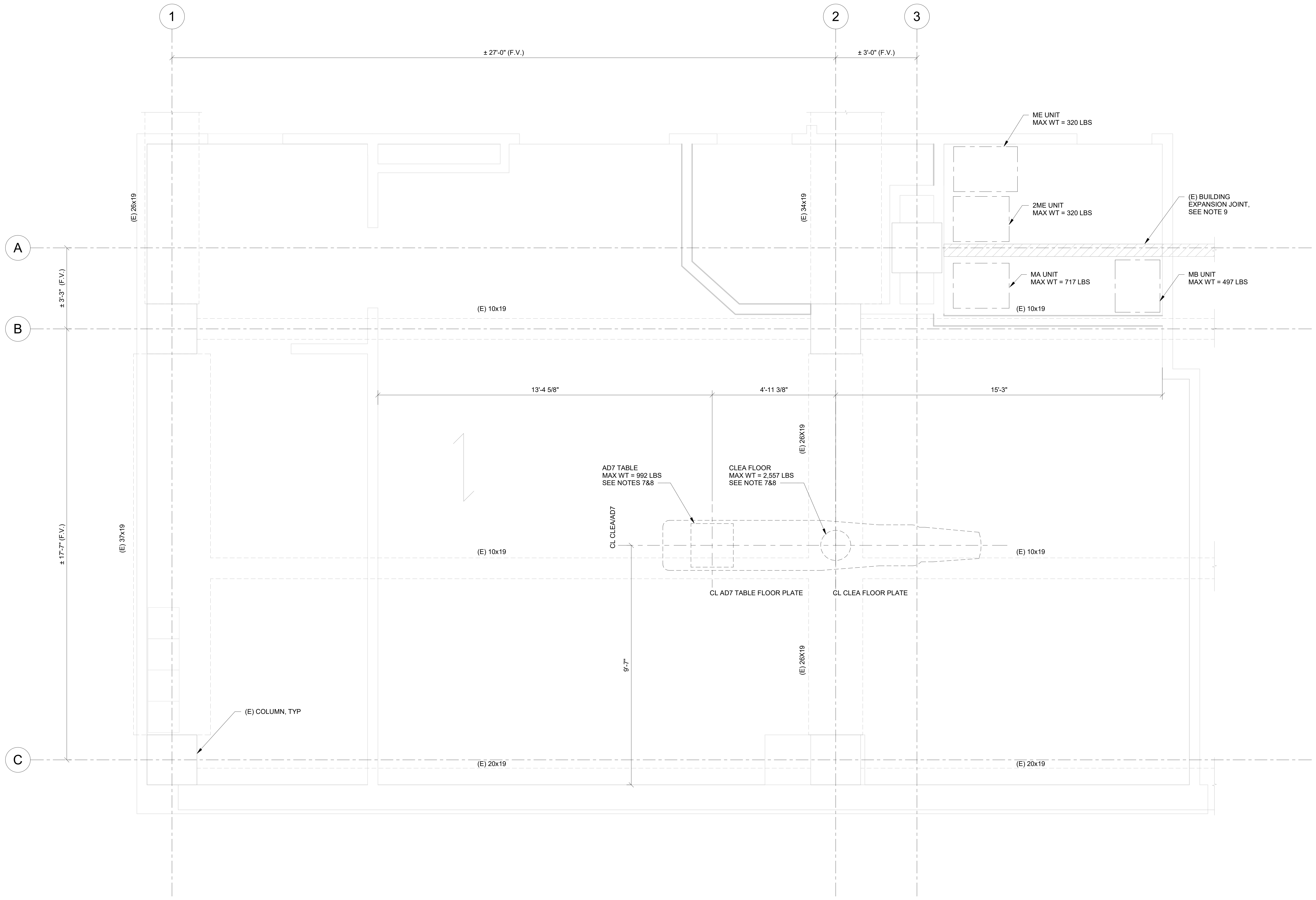
1
2
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± 27'-0" (F.V.)
± 3'-0" (F.V.)
± 3'-3" (F.V.)
± 17'-7" (F.V.)
(E) 26x19
(E) 34x19
(E) 37x19
ME UNIT
MAX WT = 320 LBS
2ME UNIT
MAX WT = 320 LBS
(E) BUILDING
EXPANSION JOINT,
SEE NOTE 9
MA UNIT
MAX WT = 717 LBS
MB UNIT
MAX WT = 497 LBS
(E) 10x19
(E) 10x19
13'-4 5/8"
4'-11 3/8"
15'-3"
(E) 26X19
AD7 TABLE
MAX WT = 992 LBS
SEE NOTES 7&8
CLEA FLOOR
MAX WT = 2,557 LBS
SEE NOTE 7&8
CL CLEA/AD7
(E) 10x19
(E) 10x19
CL AD7 TABLE FLOOR PLATE
CL CLEA FLOOR PLATE
9'-7"
(E) 26X19
(E) COLUMN, TYP
(E) 20x19
(E) 20x19

1
S-101

PARTIAL 8TH FLOOR FLOOR FRAMING PLAN

1/2" = 1'-0"

NOTES:

1. SEE S-001 FOR STRUCTURAL GENERAL NOTES.
2. SEE ARCH FOR ADDITIONAL INFORMATION AND DIMENSIONS.
3. (E) DENOTES EXISTING ELEMENT.
4. EXISTING STRUCTURE SHOWN IS BASED ON AS-BUILT DRAWINGS BY URS CONSULTANTS DATED OCTOBER 8, 1993. CONTRACTOR TO FIELD VERIFY (F.V.) ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. ⟷ INDICATES DIRECTIONAL SPAN OF (E) 5" CONCRETE SLAB (F.V.) OVER (E) CONCRETE JOISTS.
6. CONTRACTOR TO COORDINATE EQUIPMENT LOCATION, DIMENSIONS, AND ANCHORAGE OF EQUIPMENT WITH VENDOR DRAWINGS.
7. PRIOR TO CORING ANY PENETRATIONS IN (E) CONCRETE SLAB, CONTRACTOR SHALL SCAN THE SLAB TO AVOID DAMAGING EXISTING SLAB REINFORCING AND (E) CONCRETE BEAMS BELOW. NO PENETRATIONS ARE ALLOWED IN CONCRETE BEAMS OR JOISTS.
8. BASE PLATES FOR EQUIPMENT SHALL BE SURFACE MOUNTED. INSTALL PER MFR REQUIREMENTS.
9. CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING BUILDING EXPANSION JOINT. MECHANICAL EQUIPMENT SHALL NOT BE PLACED OVER EXISTING BUILDING EXPANSION JOINT.

No. SE000174
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PARTIAL 8TH FLOOR FRAMING PLAN

Sheet No.
S-101

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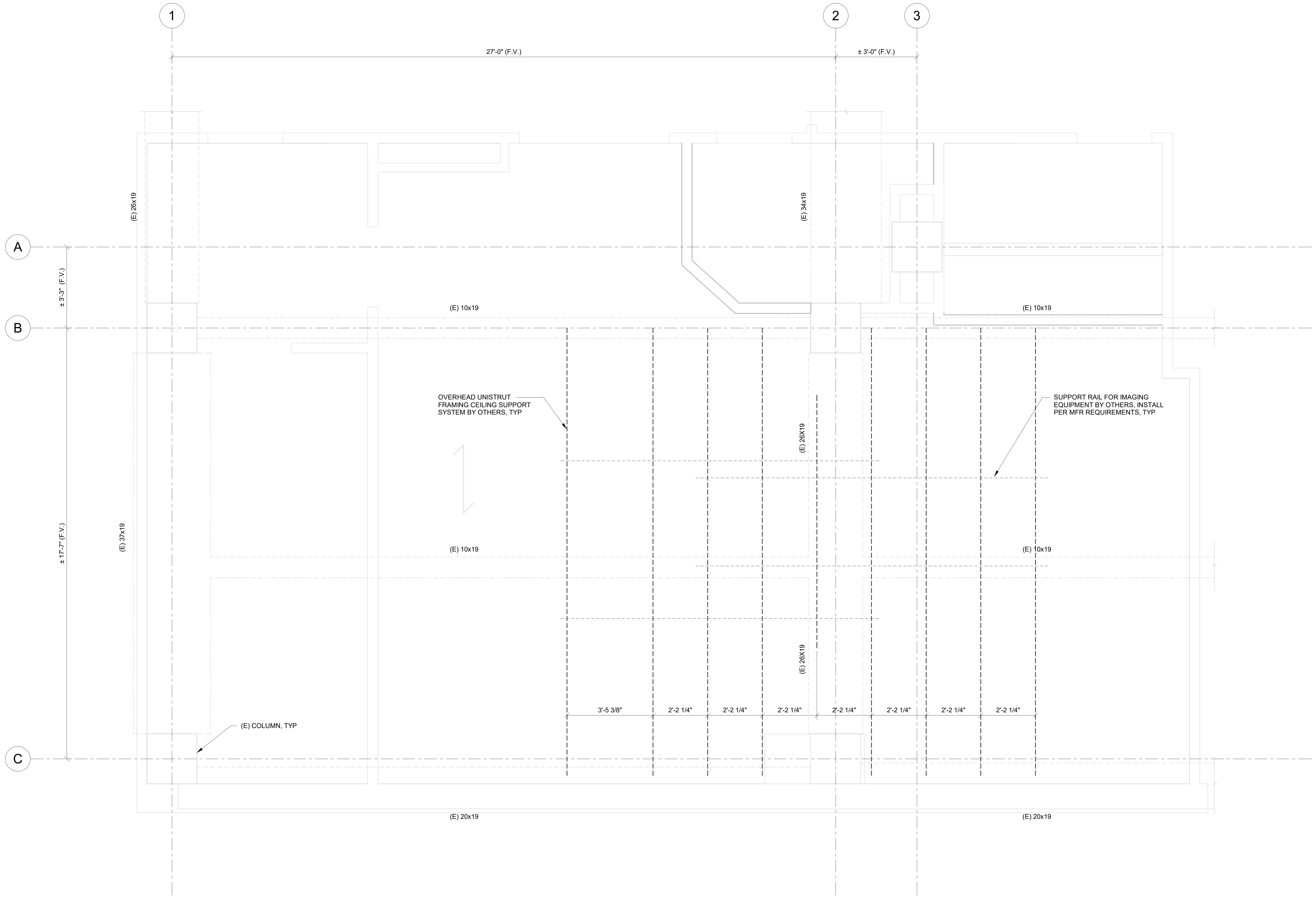
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(E) 37x19
(E) 10x19
(E) 10x19
(E) 10x19
(E) 10x19
(E) 20x19
(E) 20x19
(E) 26X19
(E) 26X19
OVERHEAD UNISTRUT FRAMING CEILING SUPPORT SYSTEM BY OTHERS, TYP
SUPPORT RAIL FOR IMAGING EQUIPMENT BY OTHERS, INSTALL PER MFR REQUIREMENTS, TYP
3'-5 3/8"
2'-2 1/4"
2'-2 1/4"
2'-2 1/4"
2'-2 1/4"
2'-2 1/4"
2'-2 1/4"
2'-2 1/4"
(E) COLUMN, TYP

1
S-102

PARTIAL 9TH FLOOR FLOOR FRAMING PLAN
1/2" = 1'-0"

NOTES:
1. SEE S-001 FOR STRUCTURAL GENERAL NOTES.
2. SEE ARCH FOR ADDITIONAL INFORMATION AND DIMENSIONS.
3. (E) DENOTES EXISTING ELEMENT.
4. EXISTING STRUCTURE SHOWN IS BASED ON AS-BUILT DRAWINGS BY URS CONSULTANTS DATED OCTOBER 8, 1993. CONTRACTOR TO FIELD VERIFY (F.V.) ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. ⟷ INDICATES DIRECTIONAL SPAN OF (E) 5" CONCRETE SLAB (F.V.) OVER (E) CONCRETE JOISTS.
6. CONTRACTOR TO COORDINATE EQUIPMENT LOCATION, DIMENSIONS, AND ANCHORAGE OF EQUIPMENT WITH VENDOR DRAWINGS.
7. CONTRACTOR TO COORDINATE DIMENSIONS SHOWN FOR UNISTRUT SUPPORT FRAMING WITH UNISTRUT CEILING GRID MANUFACTURER.

No. SE000174
HOLLY C JEFFREYS

RANDALL PAULSON
architects
Roswell . Nashua

SHEAR
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Sheet Title
PARTIAL 9TH FLOOR FRAMING PLAN

Sheet No.
S-102

■ Released for Construction
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MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	-CEILING DIFFUSER, ROUND NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	-ROUND DIFFUSER
	-CEILING RETURN
	-CEILING EXHAUST
	-CEILING DIFFUSER, RECTANGULAR OR SQUARE NECK (CEILING DIFFUSERS ARE 4-WAY THROW UNO)
	-SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
	-RETURN/EXHAUST REGISTER OR GRILLE (VERTICAL MOUNT, SIDEWALL)
1	-REVISION REFERENCE
1 M-1	-DETAIL REFERENCE: TOP-DETAIL#, BOTTOM-DRAWING# SHOWN ON
Ⓣ	-THERMOSTAT/TEMPERATURE SENSOR
Ⓗ	-HUMIDISTAT/HUMIDITY SENSOR
	-DUCT SMOKE DETECTOR
	-CONNECT TO EXISTING
	-DEMOLISH TO POINT INDICATED
M	-MOTORIZED CONTROL DAMPER
TS	-TEMPERATURE SENSOR
P P	-DIGITAL ROOM PRESSURE MONITOR
Ⓟ Ⓟ	-ANALOG ROOM PRESSURE MONITOR
BD	-BACKDRAFT DAMPER
0	-NEUTRAL RELATIVE PRESSURE
+	-POSITIVE RELATIVE PRESSURE
–	-NEGATIVE RELATIVE PRESSURE
1	-SHEET NOTE CALLOUT
①	-SHEET NOTE CALLOUT
1	-SHEET NOTE CALLOUT
	-CEILING MOUNTED ACCESS DOOR

SYMBOL	DESCRIPTION
	-FIRE DAMPER (WITH ACCESS PANEL)
	-FIRE & SMOKE DAMPER (WITH ACCESS PANEL)
	-SMOKE DAMPER (WITH ACCESS PANEL)
SA-1	-SOUND ATTENUATOR
M	-MOTOR OPERATED CONTROL DAMPER (MOD)
FM	-AIR FLOW MEASURING STATION
	-MANUAL BALANCING DAMPER
	-DOOR GRILLE
UC	-UNDERCUT DOOR
	-ACCESS DOORS, VERTICAL OR HORIZONTAL
▨	-STAINLESS STEEL DUCTWORK
	-FLEXIBLE CONNECTION
12/8	-FLAT OVAL DUCT
24x12	-NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN
24x12	-EXISTING DUCTWORK TO REMAIN
24x12	-EXISTING DUCTWORK TO BE REMOVED
24x12 DOWN UP W/IN FLOOR	-DUCT ELBOW, POSITIVE PRESSURE (SUPPLY), FIRST DIMENSION INDICATES SIDE TO WHICH ARROW IS POINTING
	-DUCT ELBOW, EXHAUST
	-DUCT ELBOW, NEGATIVE PRESSURE, RETURN
	-DUCT ELBOW UP THROUGH ROOF OR SLAB ABOVE
	-RECTANGULAR DUCT SECTION UP, POSITIVE PRESSURE, SUPPLY OR OUTSIDE AIR
	-RECTANGULAR DUCT SECTION UP, NEGATIVE PRESSURE, RETURN
	-RECTANGULAR DUCT SECTION UP, EXHAUST
	-ROUND DUCT SECTION UP
	-FLAT OVAL DUCT SECTION UP

SYMBOL	DESCRIPTION
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME WITH ELECTRIC HEAT
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME WITH ELECTRIC HEAT
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED
	-TERMINAL UNIT, VARIABLE/CONSTANT AIR VOLUME, FAN POWERED, WITH ELECTRIC HEAT
	-ELECTRIC DUCT HEATER (W/ PANEL CLEARANCE)
	-HYDRONIC REHEAT COIL
	-INLINE CENTRIFUGAL FAN
	-PACKAGED TERMINAL AIR CONDITIONER (PTAC)
UP DN	-CHANGE OF ELEVATION
	-FLEXIBLE DUCT
	-TRANSITION, CONCENTRIC
	-TRANSITION, ECCENTRIC
10x8 8"	-TRANSITION, SQUARE TO ROUND
	-SQUARE THROAT TEE WITH DAMPERS
12x8	-RADIUS TEE WITH DAMPERS
	-RECTANGLE-TO-ROUND TAKE-OFF WITH DAMPER
	-STANDARD BRANCH TAKE-OFF WITH DAMPER
	-SPIN-IN TAKE-OFF WITH DAMPER
	-SQUARE THROAT ELBOW W/TURNING VANES
	-RADIUS ELBOW
	-RECTANGULAR/ROUND BRANCH TAKE-OFF OR ROUND/ROUND BRANCH TAKE-OFF
	-EXHAUST DUCT UP THROUGH SLAB W/ FAN ON ROOF ABOVE
	-EXHAUST FAN ON ROOF W/ DUCT DOWN THROUGH ROOF

MECHANICAL ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFD	-ADJUSTABLE FREQUENCY DRIVE	LD	-LINEAR DIFFUSER
AFF	-ABOVE FINISHED FLOOR	MBH	-THOUSAND BTUs PER HOUR
AFR	-ABOVE FINISHED ROOF	MCA	-MINIMUM CIRCUIT AMPS
AHU	-AIR HANDLING UNIT	MOCP	-MAXIMUM OVER CURRENT PROTECTION
AP	-ACCESS PANEL	MOD	-MOTOR OPERATED CONTROL DAMPER (MOD)
BOP	-BOTTOM OF PIPE	NAM	-NEGATIVE AIR MACHINE
BHP	-BRAKE HORSEPOWER	NC	-NORMALLY CLOSED
BTU	-BRITISH THERMAL UNIT	NO	-NORMALLY OPEN
CL	-CENTER LINE	NTS	-NOT TO SCALE
CFM	-CFM (CUBIC FEET PER MINUTE)	OA	-OUTSIDE AIR
CD	-CEILING DIFFUSER	OAL	-OUTSIDE AIR LOUVER
CT	-COOLING TOWER	PRV	-PRESSURE REDUCING VALVE
CV	-CONSTANT AIR VOLUME	PRS	-PRESSURE REDUCING STATION
ΔP	-CHANGE IN PRESSURE	PSI	-POUNDS PER SQUARE INCH
ΔT	-CHANGE IN TEMPERATURE	PSIG	-PSI GAUGE
CFM	-CUBIC FEET PER MINUTE	PTAC	-PACKAGED TERMINAL AIR CONDITIONER
CU	-CONDENSING UNIT	PVC	-POLYVINYL CHLORIDE PIPE
DDC	-DIRECT DIGITAL CONTROLS	RA	-RETURN AIR
DN	-DOWN	RHC	-REHEAT COIL
EA	-EXHAUST AIR	RHP	-ROOFTOP HEAT PUMP
EAT	-ENTERING AIR TEMPERATURE	RPM	-REVOLUTIONS PER MINUTE
ESP	-EXTERNAL STATIC PRESSURE	RS/L	-REFRIGERANT SUCTION & LIQUID LINES
EWT	-ENTERING WATER TEMPERATURE	RTU	-ROOFTOP AIR HANDLING UNIT
FCU	-FAN COIL UNIT	SA	-SUPPLY AIR
FD	-FIRE DAMPER	SP	-STATIC PRESSURE
FF	-FINAL FILTERS	TSP	-TOTAL STATIC PRESSURE
FLA	-FULL LOAD AMPS	UNO	-UNLESS NOTED OTHERWISE
FPM	-FEET PER MINUTE	V/PH	-VOLTS/PHASE
GPM	-GALLONS PER MINUTE	VAV	-VARIABLE AIR VOLUME
ISO	-ISOLATION EXHAUST	VFD	-VARIABLE FREQUENCY DRIVE
KW	-KILOWATT		
LAT	-LEAVING AIR TEMPERATURE		
LWT	-LEAVING WATER TEMPERATURE		

MECHANICAL GENERAL NOTES

1. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
2. DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. FOR PROJECTS INVOLVING RENOVATION, COORDINATE NEW WORK WITH EXISTING ELEMENTS SUCH AS THE BUILDING STRUCTURE AND ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND ELECTRICAL CONDUIT.
3. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
4. SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK.
5. PROVIDE AIR TURNING VANES IN ALL 90 DEGREE RECTANGULAR DUCT ELBOWS.
6. DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT FURNISHED.
7. COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
8. LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.
9. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
10. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
11. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
12. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
13. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
14. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
15. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.
16. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES.
17. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNITS, AND FAN COIL UNITS.
18. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE CONNECTED.
19. INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE.
20. ALL EQUIPMENT, DUCTWORK, ETC., TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY, AS DIRECTED BY OWNER.
21. MAINTAIN CLEARANCE OF A MINIMUM OF 4" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE AND/OR SMOKE RATED WALLS, TO ALLOW FOR INSPECTIONS OF RATED WALLS.
22. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10' CLEAR FROM ALL PLUMBING VENTS AND EXHAUST AIR DISCHARGE LOCATIONS, AND A MINIMUM OF 1' ABOVE ROOF SURFACES/GRADE.
23. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
24. WATER PRESSURE DROPS THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 5 PSI.
25. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.
26. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER AND HOT WATER PIPING.
27. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.
28. TEST AND BALANCE SHALL BE PERFORMED AT EACH PHASE OF CONSTRUCTION, ON ALL SPACES AND SYSTEMS ASSOCIATED WITH THE PHASE. PROVIDE REPORT TO ENGINEER FOR REVIEW.
29. SUBMITTALS: ELECTRONIC SUBMITTALS SHALL BE IN SEARCHABLE FORMAT. DO NOT SUBMIT SCANNED DOCUMENTS.
30. MECHANICAL SYSTEMS COMMISSIONING WILL BE PERFORMED IN ACCORDANCE WITH CURRENT GEORGIA BUILDING CODE SECTION C408. A COMMISSIONING PLAN WILL BE DEVELOPED IN ACCORDANCE WITH IEEC C408.2.1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MECHANICAL PIPING SYMBOL LEGEND

SYMBOL	DESCRIPTION
CWS	-CONDENSER WATER SUPPLY
CWR	-CONDENSER WATER RETURN
CHWS	-CHILLED WATER SUPPLY
CHWR	-CHILLED WATER RETURN
CD	-CONDENSATE
CR	-CONDENSATE RETURN
PC	-PUMPED CONDENSATE
HHWR	-HEATING HOT WATER RETURN
HHWS	-HEATING HOT WATER SUPPLY
HPS	-HIGH PRESSURE STEAM SUPPLY
MPS	-MEDIUM PRESSURE STEAM SUPPLY
LPS	-LOW PRESSURE STEAM SUPPLY
HPR	-HIGH PRESSURE STEAM RETURN
MPR	-MEDIUM PRESSURE STEAM RETURN
LPR	-LOW PRESSURE STEAM RETURN
RL	-REFRIGERANT LIQUID
RS	-REFRIGERANT SUCTION
	-TEE, OUTLET DOWN
	-TEE, OUTLET UP
D	-45° PIPE RISE (R) / DROP (D)
	-PIPE ANCHORS
	-CONCENTRIC REDUCER
	-ECCENTRIC REDUCER

SYMBOL	DESCRIPTION
	-FLOW DIRECTION
	-ISOLATION VALVE
	-BALL VALVE
	-CALIBRATING BALANCING VALVE
	-BUTTERFLY VALVE
	-GAS COCK
	-UNION
	-STRAINER
	-CONTROL VALVE
S	-SOLENOID VALVE
	-PSI REG.
	-CHECK VALVE
	-FLOW SWITCH
	-SLOPE DIRECTION (DOWN)
	-FLEX CONNECTION
	-O.S.&Y. GATE VALVE
	-STEAM TRAP
	-THREE-WAY CONTROL VALVE
	-THERMOMETER

SYMBOL	DESCRIPTION
EQUIP.	- P-TRAP
	-TWO-WAY CHECK VALVE
MV	-MANUAL VENT
	-PRESSURE GAUGE
	-RELIEF VALVE
FM	-FLOW METER
M	-WATER METER
	-INLINE PUMP
	-INLINE PUMP
	-VALVE ON RISER
	-CAP
	-CONNECTION, BOTTOM
	-CONNECTION, TOP
	-COUPLING
	-ELBOW, 90°
	-ELBOW, 45°
	-ELBOW, TURNED DOWN
	-ELBOW, TURNED UP

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

APPLICABLE CODES

A. STATE, COUNTY, AND CITY HEALTH AND BUILDING CODES
B. NFPA 51B, 2019 EDITION
C. NFPA 70, 2017 EDITION
D. NFPA 72, 2019 EDITION
E. NFPA 90A, 2018 EDITION
F. NFPA 90B, 2018 EDITION
G. NFPA 99: STANDARD FOR HEALTHCARE FACILITIES, 2018 EDITION
H. NFPA 101, LIFE SAFETY CODE, 2018 EDITION, GEORGIA AMENDMENTS (2020)
I. IBC 2018 EDITION, WITH GEORGIA AMENDMENTS (2025)
J. IMC 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
K. IPC 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
L. IEC 2015 EDITION, WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020)
M. IFC 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
N. OTHER NFPA CODES AS REFERENCED BY STANDARD CODES.
O. ANSI A117.1-1992 ACCESSIBLE AND USABLE BUILDING AND FACILITIES.
P. THE AMERICANS WITH DISABILITIES ACT (ADA), ACCESSIBLITY GUIDELINES FOR BUILDINGS AND FACILITIES - 1991
Q. 2022 FGI GUIDELINES

MECHANICAL TAGS

TAG
A 200
CFM
-AIR DISTRIBUTION DEVICE TAG

EQUIPMENT NAME — EQUIPMENT NUMBER
AHU-1
-EQUIPMENT TAG

DUCT SIZE — DUCT SYSTEM

24x12 SA	-RECTANGULAR DUCT TAG
24/12 SA	-OVAL DUCT TAG TAG
12Ø SA	-ROUND DUCT TAG

PIPE SIZE — PIPE SYSTEM
12" CHWS
-PIPE TAG

MECHANICAL SHEET INDEX

SHEET	DESCRIPTION
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M-002	MECHANICAL SPECIFICATIONS
M-003	MECHANICAL DETAILS
M-004	MECHANICAL DETAILS
M-005	MECHANICAL CONTROLS
M-101	MECHANICAL PLANS

RANDALL PAULSON
architects
Roswell . Nashua

04/25/25
No. PE42711

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

architecture/interiors

INTERIOR RENOVATION

at

MARCUS STROKE AND NEUROSCIENCE ANGIO 1 REPLACEMENT

for

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GRADY MEMORIAL HOSPITAL
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80 JESSE HILL, JUNIOR DRIVE
SE
ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	KC	MM
25 APR 25	ISSUE FOR PERMIT	KC	MM

Revisions

Date: 01/21/22
Project No.: 2024509.00

Sheet Title
MECHANICAL SYMBOLS, LEGEND, NOTES AND INDEX

Sheet No.
M-001

■ Released for Construction
☐ Not Released for Construction

TLC ENGINEERING SOLUTIONS
4360 Chamblee Dunwoody Rd.
Suite 210
Atlanta, GA 30341
P 770.451.6757
COA 15
www.tlc-engineers.com
TLC No:824325
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BASIC MECHANICAL REQUIREMENTS:

CONFLICTS: NOTHING CONTAINED HEREIN SHALL BE CONSTRUED TO CONFLICT IN ANY WAY WITH OTHER PROVISIONS OR REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE INTENT IS THAT THIS SECTION WILL TAKE PRECEDENCE. WHERE DIFFERENCES ARISE, THE ARCHITECT SHALL DECIDE WHICH DIRECTIONS OR INSTRUCTIONS TAKE PRECEDENCE.

UNLESS AN ITEM IS SPECIFICALLY MENTIONED AS BEING PROVIDED BY OTHERS, THE REQUIREMENTS OF DIVISION 23 CONTRACT DOCUMENTS SHALL BE COMPLETED. THE SYSTEMS, EQUIPMENT, DEVICES AND ACCESSORIES SHALL BE INSTALLED, FINISHED, TESTED AND ADJUSTED FOR CONTINUOUS AND PROPER OPERATION. ANY APPARATUS, MATERIAL OR DEVICE NOT SHOWN ON THE DRAWINGS BUT MENTIONED IN THESE SPECIFICATIONS, OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE PROJECT COMPLETE AND OPERATIONAL IN ALL RESPECTS, SHALL BE FURNISHED, DELIVERED AND INSTALLED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. INCLUDE ALL MATERIALS, EQUIPMENT, SUPERVISION, OPERATION, METHODS AND LABOR FOR THE FABRICATION, INSTALLATION, START-UP AND TESTS NECESSARY FOR COMPLETE AND PROPERLY FUNCTIONING SYSTEMS.

COMPLY WITH ALL RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND THE AMENDMENTS AND INTERPRETATION OF SUCH RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS BY THE AUTHORITIES HAVING LAWFUL JURISDICTION.

DRAWINGS AND SPECIFICATIONS:

INTENT: THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO ESTABLISH MINIMUM ACCEPTABLE QUALITY STANDARDS FOR MATERIALS, EQUIPMENT AND WORKMANSHIP, AND TO PROVIDE OPERABLE MECHANICAL SYSTEMS COMPLETE IN EVERY RESPECT.

EQUIPMENT PLACEMENT: THE DRAWINGS ARE DIAGRAMMATIC, INTENDED TO SHOW GENERAL ARRANGEMENT, CAPACITY AND LOCATION OF VARIOUS COMPONENTS, EQUIPMENT AND DEVICES. EACH LOCATION SHALL BE DETERMINED BY REFERENCE TO THE GENERAL BUILDING PLANS AND BY ACTUAL MEASUREMENTS IN THE BUILDING AS BUILT. REASONABLE CHANGES IN LOCATIONS ORDERED BY THE ARCHITECT PRIOR TO THE PERFORMANCE OF THE AFFECTED WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

DRAWING SCALE: DUE TO THE SMALL SCALE OF THE DRAWINGS, AND TO UNFORESEEN JOB CONDITIONS, ALL REQUIRED OFFSETS, TRANSITIONS AND FITTINGS MAY NOT BE SHOWN BUT SHALL BE PROVIDED AT NO ADDITIONAL COST.

CONFLICT: IN THE EVENT OF A CONFLICT, THE ARCHITECT WILL RENDER AN INTERPRETATION IN ACCORDANCE WITH THE GENERAL CONDITIONS.

ABBREVIATIONS: ABBREVIATIONS, WHERE NOT DEFINED IN THE CONTRACT DOCUMENTS, SHALL BE INTERPRETED TO MEAN THE NORMAL CONSTRUCTION INDUSTRY TERMINOLOGY, AS DETERMINED BY THE ARCHITECT. PLURAL WORDS SHALL BE INTERPRETED AS SINGULAR AND SINGULAR WORDS SHALL BE INTERPRETED AS PLURAL WHERE APPLICABLE FOR CONTEXT OF THE CONTRACT DOCUMENTS.

WORKMANSHIP:

GENERAL: THE INSTALLATION OF MATERIALS AND EQUIPMENT SHALL BE DONE IN A NEAT, WORKMANLIKE AND TIMELY MANNER BY AN ADEQUATE NUMBER OF CRAFTSMEN KNOWLEDGEABLE OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THEY SHALL BE SKILLED IN THE METHODS AND CRAFTSMANSHIP NEEDED TO PRODUCE A FIRST-QUALITY INSTALLATION. PERSONNEL WHO INSTALL MATERIALS AND EQUIPMENT SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE TO PERFORM THEIR ASSIGNED TASKS.

HOUSEKEEPING: KEEP INTERIORS OF DUCT AND PIPE SYSTEMS CLEAN AND FREE FROM DIRT, RUBBISH AND FOREIGN MATTER. CLOSE OPEN ENDS OF PIPING AND DUCTWORK AT ALL TIMES THROUGHOUT THE INSTALLATION.

EQUIPMENT PROTECTION: PROTECT FAN MOTORS, SWITCHES, EQUIPMENT, FIXTURES, AND OTHER ITEMS FROM DIRT, RUBBISH AND FOREIGN MATTER. DO NOT OPERATE AIR HANDLING EQUIPMENT IF THE BUILDING IS NOT CLEAN OR IF DUST CAN ENTER THE COILS OR THE FAN HOUSINGS.

EQUIPMENT CLEANING: THOROUGHLY CLEAN EQUIPMENT AND ENTIRE PIPING SYSTEMS INTERNALLY UPON COMPLETION OF INSTALLATION AND IMMEDIATELY PRIOR TO FINAL ACCEPTANCE.

BUILDING CLEANUP: REMOVE DEBRIS, RUBBISH, LEFTOVER MATERIALS, TOOLS AND EQUIPMENT FROM WORK AREAS AND SITE. CLEAN TUNNELS AND CLOSED OFF SPACES OF PACKING BOXES, WOOD FRAME MEMBERS AND OTHER WASTE MATERIALS USED IN THE INSTALLATION.

FILTER REPLACEMENT: PROVIDE FILTERS, WITH THE SAME EFFICIENCY RATING AS REQUIRED FOR THE FINAL INSTALLATION, FOR THE PROTECTION OF THE AIR MOVING EQUIPMENT AND DUCTWORK CONTINUOUSLY THROUGHOUT THE CONSTRUCTION PHASE. PROVIDE A NEW SET OF CLEAN FILTERS FOR THE TEST AND BALANCE OF THE AIR SIDE EQUIPMENT.

PROTECTION OF FINISHED INSTALLATION: WHERE INSTALLATION IS REQUIRED IN AREAS PREVIOUSLY FINISHED BY OTHER TRADES, PROTECT THE AREA FROM MARRING, SOILING OR OTHER DAMAGE.

CLEAN-UP: DEBRIS AND RUBBISH SHALL NOT BE DISPOSED INTO THE OWNER'S CONTAINERS.

CORRECTION OF WORK:

GENERAL: AT NO ADDITIONAL COST TO THE OWNER, RECTIFY DISCREPANCIES BETWEEN THE ACTUAL INSTALLATION AND CONTRACT DOCUMENTS WHEN IN THE OPINION OF THE T&B AGENCY OR THE ARCHITECT THE DISCREPANCIES WILL AFFECT SYSTEM BALANCE AND PERFORMANCE.

DRIVE CHANGES: INCLUDE THE COST OF ALL PULLEY, BELT, AND DRIVE CHANGES, AS WELL AS BALANCING DAMPERS, VALVES AND FITTINGS, AND ACCESS PANELS TO ACHIEVE PROPER SYSTEM BALANCE RECOMMENDED BY THE T&B AGENCY.

COORDINATION AND ASSISTANCE:

GENERAL: PROVIDE ALL LABOR, EQUIPMENT, TOOLS AND MATERIAL REQUIRED TO OPERATE THE EQUIPMENT AND SYSTEMS NECESSARY FOR THE TESTING AND BALANCING OF THE SYSTEMS.

COORDINATE THE OPERATION OF THESE SYSTEMS WITH THE T&B AGENCY. CORRECT DEFICIENCIES NOTED BY THE T&B AGENCY. THE CONTRACTOR WILL BE HELD LIABLE FOR RETEST/REBALANCE REQUIRED FROM CONTRACTOR RELATED SYSTEM DEFIECIENCES.

DRAWINGS AND SPECIFICATIONS: PROVIDE TO THE T&B AGENCY A COMPLETE SET OF PROJECT RECORD DRAWINGS AND SPECIFICATIONS AND AN APPROVED COPY OF ALL HVAC SHOP DRAWINGS AND EQUIPMENT SUBMITTALS. THE T&B AGENCY SHALL BE INFORMED OF ALL CHANGES MADE TO THE SYSTEM DURING CONSTRUCTION, INCLUDING APPLICABLE CHANGE ORDERS.

COORDINATION: COORDINATE THE WORK OF ALL TRADES AND EQUIPMENT SUPPLIERS TO COMPLETE THE MODIFICATIONS RECOMMENDED BY THE T&B AGENCY AND ACCEPTED BY THE ARCHITECT. CUT OR DRILL HOLES FOR THE INSERTION OF AIR MEASURING DEVICES AS DIRECTED FOR TEST PURPOSES; REPAIR TO AS-NEW CONDITION, INSERTING PLASTIC CAPS OR COVERS TO PREVENT AIR LEAKAGE. REPAIR OR REPLACE INSULATION AND RE-ESTABLISH THE INTEGRITY OF THE VAPOR RETARDANT.

COORDINATION DRAWINGS: CONTRACTOR WILL PROVIDE M, E, P, & FP COORDINATION DRAWINGS TO BE RECEIVED AND APPROVED BY THE ENGINEER AND ARCHITECT BEFORE FABRICATION OR INSTALLATION OF ANY SYSTEM. PROVIDE 6 COPIES OF COORDINATED 1/4" SCALE DRAWINGS FOR REVIEW. ALL CONFLICTS SHALL RESOLVED BEFORE FINAL ACCEPTANCE.

PROTECTION OF MATERIALS AND EQUIPMENT:

REPLACEMENT OF DAMAGED STORED MATERIAL AND EQUIPMENT: ANY MATERIAL AND EQUIPMENT THAT HAS BEEN WET OR OTHERWISE DAMAGED PRIOR TO INSTALLATION, IN THE OPINION OF THE ARCHITECT, SHALL BE REPLACED WITH NEW MATERIAL REGARDLESS OF THE CONDITION OF THE MATERIAL AND EQUIPMENT AT THE TIME OF INSTALLATION.

REPAIR OF DAMAGED EXISTING MATERIAL AND EQUIPMENT AFTER INSTALLATION: CORRECT OR REPAIR DENTS, SCRATCHES AND OTHER VISIBLE BLEMISHES. AT THE DIRECTION OF ARCHITECT REPLACE OR REPAIR TO "AS NEW" CONDITION EQUIPMENT THAT HAS BEEN DAMAGED DURING CONSTRUCTION.

ASBESTOS AND HAZARDOUS MATERIALS:

GENERAL: SHOULD ASBESTOS OR OTHER HAZARDOUS MATERIAL BE ENCOUNTERED DURING EXECUTION OF THE WORK, OR SHOULD THE PRESENCE OF ASBESTOS OR OTHER HAZARDOUS MATERIAL BE SUSPECTED, IMMEDIATELY NOTIFY THE ARCHITECT AND SUSPEND WORK IN THE AFFECTED AREA. THE OWNER WILL INITIATE A STUDY TO DETERMINE IF ASBESTOS OR OTHER HAZARDOUS MATERIALS ARE PRESENT AND WILL DETERMINE WHAT ACTION WILL BE TAKEN. REMOVAL OF ASBESTOS OR OTHER HAZARDOUS MATERIALS WILL BE DONE UNDER A SEPARATE CONTRACT.

COORDINATION OF SERVICES:

GENERAL: COORDINATE INTERRUPTION OF EXISTING SERVICES TO OWNER-OCCUPIED AREAS, IN WRITING, AT LEAST 1-WEEK IN ADVANCE WITH THE ARCHITECT. THE OWNER SHALL DECIDE SHUTDOWN TIME AND DURATION OF SERVICES INTERRUPTION. PROVIDE SHUTOFF VALVES AT POINTS OF INTERCONNECTION TO MINIMIZE DOWNTIME. PROCEDURES INCIDENTAL TO THE OUTAGE SHALL BE PREPARED IN ADVANCE TO MINIMIZE DOWNTIME.

FIRE SAFETY IN EXISTING FACILITIES:

DO NOT DECREASE THE FIRE RATING OF WALLS, PARTITIONS, CEILINGS, FLOORS, DOORS OR COMBINATIONS THEREOF IN ADJACENT AREAS OR MEANS OF EGRESS. DO NOT INTERRUPT FIRE SPRINKLING OR LIFE SAFETY SYSTEMS WITHOUT PRIOR COORDINATION WITH THE ARCHITECT. INFORM ALL NECESSARY PARTIES (FIRE DEPARTMENT, OWNER'S INSURANCE CARRIER, ETC.) IN ADVANCE, PRIOR TO AND IMMEDIATELY AFTER SHUTDOWN, DISCONNECTION OR ISOLATION OF ANY PORTION OF LIFE SAFETY OR FIRE SPRINKLER SYSTEM.

LAYOUT OF EXISTING EQUIPMENT:

GENERAL: EXISTING EQUIPMENT, PIPING, DUCTWORK, ETC., AS INDICATED ON THE DRAWINGS HAVE, FOR THE MOST PART, BEEN PROVIDED TO THE ARCHITECT THROUGH EXISTING DRAWINGS. THE LAYOUTS SHOWN MAY NOT BE FROM AS-BUILT DRAWINGS AND MAY BE FROM PARTIAL COPIES OF ORIGINAL DESIGN DOCUMENTS NOT PRODUCED BY THE ARCHITECT. THE ARCHITECT IS NOT RESPONSIBLE FOR THE ACCURACY NOR COMPLETENESS OF THE EXISTING INSTALLATION AND ALL LAYOUTS ARE SHOWN FOR REFERENCE ONLY. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND THAT EXISTING AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. VERIFY EXISTING CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT OF ANY DEVIATIONS REQUIRED TO INSTALL THE WORK AS SHOWN. COORDINATE NEW WORK WITH EXISTING EQUIPMENT, INCLUDING REMOVING, RELOCATING, REROUTING, EXTENDING WITH NEW MATERIALS, AND REINSTALL EXISTING PIPING, DUCTWORK, CONDUITS, WIRING, TUBING, SUPPORTS AND OTHER EQUIPMENT. THE ARCHITECT SHALL MAKE THE FINAL DECISION ON ALL DEVIATIONS OR MODIFICATIONS REQUIRED BY THE EXISTING CONDITIONS.

AIR FILTER

SUBMITTALS SHALL INCLUDE THE FOLLOWING DATA: MANUFACTURERS LITERATURE, SIZE, MAKE, MODEL NUMBER, THICKNESS, MERV RATING, AND EFFICIENCY OF FILTER SELECTED.

PERFORMANCE DATA: INITIAL AND RECOMMENDED FINAL PRESSURE DROP ACROSS EACH FILTER ASSEMBLY AT THE AIR FLOWS INDICATED.

PLEATED FILTER MEDIA
GENERAL: UNLESS OTHERWISE INDICATED ALL PLEATED MEDIA FILTERS SHALL HAVE A FACE SIZE OF 24 INCHES BY 24 INCHES OR 24 INCHES BY 12 INCHES.

30 PERCENT EFFICIENT/MERV 8 FILTERS: FILTER MEDIA SHALL BE REINFORCED NON- WOVEN COTTON WITH POLYESTER TRACE FIBERS, TREATED WITH ADHESIVE AND CONTINUOUSLY LAMINATED TO A SUPPORTED STEEL WELDED WIRE GRID. THE DISPOSABLE FILTER MEDIA ENCLOSING FRAME SHALL BE RIGID WET-STRENGTH BEVERAGE BOARD WITH DIAGONAL SUPPORT MEMBERS. THE INSIDE PERIPHERY OF THE FRAME SHALL BE BONDED TO THE FILTER MEDIA TO ELIMINATE AIR BYPASS. EACH FILTER SHALL CONTAIN A MINIMUM 3 SQUARE FEET OF MEDIA PER SQUARE FOOT OF FACE AREA, AND A MINIMUM 11 PLEATS PER LINEAR FOOT. UNLESS OTHERWISE INDICATED, MEDIA THICKNESS SHALL BE 2 INCHES; CLEAN RESISTANCE SHALL NOT EXCEED 0.30 INCHES OF WATER AT 500 FPM FACE VELOCITY.

MANUFACTURER AND MODEL: AMERICAN AIR FILTER, PERFECT PLEAT ULTRA, CAMFIL FARR, 30/30

90 PERCENT EFFICIENT/MERV 14 CARTRIDGE FILTERS: AIR FILTERS SHALL BE HIGH PERFORMANCE, EXTENDED AREA, DEEP PLEATED, CARTRIDGE TYPE CONSISTING OF A FILTER ELEMENT, MEDIA RETAINER HOLDING FRAME AND SEALER FRAME. THE MEDIA SHALL BE MICROFINE GLASS FIBER REINFORCED BY A LAMINATED SYNTHETIC BACKING. RETAINER SHALL BE OF WELDED STEEL CONSTRUCTION AND SHALL BE DESIGNED TO SUPPORT THE MULTIPLE PLEATS OF THE FILTER ELEMENT AGAINST THE DIRECTION OF AIRFLOW. THE WELDED WIRE GRID SHALL BE BONDED TO THE FILTER MEDIA.

ENCLOSURE FRAMES SHALL BE FACTORY FABRICATED OF GALVANIZED STEEL AND SHALL BE EQUIPPED WITH GASKETS AND FOUR SPRING-TYPE POSITIVE SEALING FASTENERS CAPABLE OF BEING ATTACHED OR REMOVED WITHOUT TOOLS. SEALER FRAMES SHALL BE FABRICATED OF 20 GAUGE GALVANIZED STEEL AND SHALL BE EQUIPPED WITH GASKETING MATERIAL ON THE FRAME REAR FLANGE. UNLESS OTHERWISE INDICATED, FILTER CLEAN RESISTANCE SHALL NOT EXCEED 0.70 INCHES OF WATER AT 500 FPM FACE VELOCITY.

MANUFACTURER AND MODEL: AMERICAN AIR FILTER, VARICEL DH, CAMFIL FARR, MICRETAIN

TEST AND BALANCE:

GENERAL: SHALL BE PERFORMED BY AN INDEPENDENT T&B AGENCY.

RENOVATION PROJECTS, PERFORMANCE VERIFICATION: PROVIDE A PRE-DEMOLITION TEST OF ALL AIR DEVICES AND EQUIPMENT WITHIN THE SCOPE OF WORK AREA OR AS OTHERWISE INSTRUCTED.

T&B FOR THE MECHANICAL EQUIPMENT SHALL INCLUDE:
DIFFERENTIAL PRESSURE ON FILTER(S), COOLING COIL(S), AND FAN(S)
INLET AND DISCHARGE STATIC PRESSURES
TOTAL SUPPLY CFM
TOTAL RETURN CFM
OA CFM (IF APPLICABLE)
FAN MOTOR NAMEPLATE DATA
FAN MOTOR AMP DRAW
TEMPERATURE PROFILE

T&B REPORT SHALL BE FORWARDED TO ENGINEER BEFORE DEMOLITION OF SYSTEMS.

CERTIFICATION: THE T&B AGENCY SHALL BE A CERTIFIED MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB).
WORK INCLUDED: THE T&B AGENCY SHALL PROVIDE ALL LABOR, SUPERVISION, PROFESSIONAL SERVICES, TOOLS, TEST EQUIPMENT AND INSTRUMENTS (EXCEPT AS OTHERWISE INDICATED) TO PERFORM WORK OF THIS SECTION; INCLUDING BUT NOT LIMITED TO:

REVIEW THE AUTOMATIC TEMPERATURE CONTROL AND AIR TERMINAL UNIT SPECIFICATIONS FOR THEIR EFFECTS ON THE TESTING AND BALANCING PROCEDURES FOR THE AIR SYSTEMS.

WHERE CONDITIONS MAY EXIST IN THE SYSTEM DESIGN OR CONSTRUCTION WHICH MAY ADVERSELY AFFECT SYSTEM PERFORMANCE, IDENTIFY THE CONDITIONS AND SUBMIT RECOMMENDED CORRECTIONS IN WRITING FOR CONSIDERATION BY THE ARCHITECT.

PERFORM A COMPLETE AIR TEST AND BALANCE OF ALL HEATING, VENTILATING, AIR CONDITIONING AND EXHAUST AIR SYSTEMS SHOWN AND DESCRIBED ON THE CONTRACT DOCUMENTS.

TAB REPORT: RECORDED TEST DATA SHALL BE AT THE FINAL BALANCED CONDITION FOR EACH SYSTEM, AND SHALL BE ARRANGED BY SYSTEM USING THE APPROPRIATE DESIGNATION AS ESTABLISHED ON THE CONTRACT DOCUMENTS. 6 COPIES OF THE TYPEWRITTEN, SIGNED, BOUND AND INDEXED FINAL REPORT SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO REQUEST FOR SUBSTANTIAL COMPLETION INSPECTION. THE SUBSTANTIAL COMPLETION INSPECTION SHALL NOT BE SCHEDULED UNTIL THE FINAL REPORT HAS BEEN RECEIVED AND IS ACCEPTABLE TO THE ARCHITECT. REPORT FORMAT SHALL BE SIMILAR TO FORMS APPROVED FOR USE BY SMACNA OR AABC.

MEASUREMENTS: WHERE ACTUAL MEASUREMENTS RECORDED FOR THE FINAL BALANCE SHOW DEVIATIONS OF MORE THAN 10 PERCENT FROM THE DESIGN, THE T&B AGENCY SHALL NOTE SAME IN THE REPORT AND SUBMIT RECOMMENDATIONS FOR CORRECTIVE ACTION TO THE ARCHITECT.

VIBRATION: WHERE, IN THE OPINION OF THE T&B AGENCY, THERE IS EXCESSIVE VIBRATION, MOVEMENT OR NOISE FROM ANY PIECE OF EQUIPMENT, DUCTWORK, PIPES, ETC., THE T&B AGENCY SHALL NOTE SAME IN THE REPORT AND SUBMIT RECOMMENDATIONS FOR CORRECTIVE ACTION TO THE ARCHITECT.

TEST DATA: PROVIDE TEST AND BALANCE REPORT PRIOR TO AND AFTER THE BALANCING OF EACH CONSTRUCTION PHASE. INCLUDE THE FOLLOWING DATA IN THE SYSTEMS TEST AND BALANCE REPORT:

1. FANS:
MANUFACTURER, MODEL AND SERIAL NUMBER,
TYPE OF FAN, WHEEL DIAMETER RATED CFM, MEASURED CFM DESIGN INLET AND OUTLET TOTAL
EXTERNAL STATIC PRESSURES, ACTUAL INLET AND OUTLET TOTAL AND EXTERNAL STATIC PRESSURES

2. AIR SYSTEMS (INCLUDING INLETS AND OUTLETS):
GRILLE AND OR DIFFUSER: REFERENCE NUMBER, MANUFACTURER, SYSTEM TYPE AND LOCATION.
DESIGN AND MEASURED CFM TABULATION OF DESIGN AND MEASURED CFM FOR EACH INLET OR OUTLET.
A SUMMARIZATION BY SYSTEM TO COMPARE DESIGN DATA TO ACTUAL

3. AIR HANDLING UNITS:
DESIGN AND MEASURED AIR FLOW
DESIGN AND MEASURED AIRSIDE STATIC PRESSURE DROPS ACROSS EACH COIL AND ACROSS THE ENTIRE UNIT
DESIGN AND MEASURED AIRSIDE COOLING COIL ENTERING AND LEAVING DRY AND WET BULB TEMPERATURES
DESIGN AND MEASURED AIRSIDE HEATING COIL ENTERING AND LEAVING DRY BULB TEMPERATURES.
DESIGN AND MEASURE WATER FLOW & TEMPERATURES.

4. UPON COMPLETION OF ALL OTHER AIR BALANCING WORK, TEST THE DIFFERENTIAL PRESSURE AVAILABLE ACROSS EACH DUCT MOUNTED SMOKE DETECTOR AND VERIFY THAT THE SMOKE DETECTOR IS OPERATING WITHIN ITS SPECIFIED DIFFERENTIAL PRESSURE RANGE. IN THE FINAL TEST AND BALANCE REPORT, RECORD THE DIFFERENTIAL PRESSURE AVAILABLE ACROSS EACH DUCT MOUNTED SMOKE DETECTOR, INDICATE THE ALLOWABLE DIFFERENTIAL PRESSURE RANGE AS CATALOGED BY THE DETECTOR MANUFACTURER, AND DOCUMENT THAT THE SMOKE DETECTOR IS OPERATING WITHIN THE ALLOWABLE DIFFERENTIAL PRESSURE RANGE.

5. CONTROLS: THE T&B AGENCY SHALL VERIFY THAT EACH CONTROLLER AND THE DEVICES IT CONTROLS, SUCH AS CONTROL VALVES, MOTORIZED DAMPERS, VAV BOXES, ETC., OPERATES IN THE EXACT SEQUENCE REQUIRED.

PRODUCTS

AIR DISTRIBUTION

SUBMITTAL DATA: MANUFACTURERS LITERATURE, PHOTOGRAPH OR RENDERING OF EACH DEVICE, STATIC AND TOTAL PRESSURE DROP, FACE VELOCITY, THROW AND NOISE LEVEL FOR EACH OF THE AIR DISTRIBUTION DEVICES AT THE AIR FLOWS INDICATED.

DEVICES: PROVIDE AIR DISTRIBUTION DEVICES AS INDICATED. ALL AIR DISTRIBUTION DEVICES PROVIDED SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER UNLESS SPECIFICALLY INDICATED OTHERWISE.

MATERIAL: ALL DEVICES SHALL BE CONSTRUCTED OF ALUMINUM UNLESS OTHERWISE INDICATED. AIR DISTRIBUTION DEVICES INSTALLED IN FIRE RATED CEILING, FLOOR/CEILING ASSEMBLY, OR RATED WALL SHALL BE CONSTRUCTED OF STEEL. DEVICES INSTALLED ON HARD SURFACES (DRYWALL OR PLASTER CEILINGS OR WALLS) SHALL HAVE A NEOPRENE GASKET ALONG EACH EDGE TO PROVIDE AN AIRTIGHT SEAL.

FINISH: EACH AIR DISTRIBUTION DEVICE SHALL HAVE A FACTORY APPLIED BAKED ENAMEL FINISH. CEILING DEVICES SHALL BE FINISHED IN OFF-WHITE AND SIDEWALL DEVICES SHALL BE FINISHED IN OFF-WHITE UNLESS OTHERWISE INDICATED.

INTEGRAL COMPONENTS: ALL DAMPERS, BLANK-OFF BAFFLES AND OTHER COMPANION DEVICES WHICH FORM AN INTEGRAL PART OF AN AIR DISTRIBUTION DEVICE SHALL BE FACTORY-MADE.

APPROVED MANUFACTURERS: TITUS, E. H. PRICE, ANEMOSTAT, KRUEGER, METALAIRE

INSTALLATION AND COORDINATION: COORDINATE THE LOCATION OF AIR DISTRIBUTION DEVICES AND REFLECTED CEILING DRAWINGS WITH RESPECT TO PLACEMENT AND ALIGNMENT TO PREVENT CONFLICT WITH LIGHTING FIXTURES, FIRE PROTECTION SPRINKLERS AND SMOKE DETECTORS. ALL RECTANGULAR CEILING DEVICES SHALL BE INSTALLED WITH THEIR LINES PARALLEL AND PERPENDICULAR TO THE BUILDING LINES AND ALIGNED WITH THE CEILING. SURFACE MOUNTED DEVICES SHALL BE SECURED TO AND SUPPORTED BY METAL DUCT BRANCHES OR DROPS. DEVICES SHALL BE SUPPORTED BY SEPARATE HANGERS WHERE FLEXIBLE DUCT CONNECTIONS ARE INDICATED.

DUCTWORK

SHEET METAL DUCTWORK

APPLICABLE STANDARDS: SMACNA: USE MATERIAL, WEIGHT, THICKNESS, GAUGE, REINFORCING, SEAMS AND JOINTS, SUSPENSION, WORKMANSHIP AND CONSTRUCTION AND INSTALLATION METHODS AS OUTLINED IN THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. AND SHALL COMPLY WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.

MATERIAL: PRIME QUALITY 48 INCH WIDE RESQUARE TIGHT COAT COLD- ROLLED HOT-DIPPED GALVANIZED STEEL CAPABLE OF DOUBLE SEAMING WITHOUT FRACTURE. CONFORM TO THE REQUIREMENTS OF ASTM A-525 AND ASTM-G90 FOR A MINIMUM GALVANIZING COAT OF 1.25 OUNCES PER SQUARE FOOT TOTAL FOR BOTH SIDES.

ALL DUCT SUPPORTS SHALL BE SUPPORTED FROM THE STRUCTURAL MEMBERS, NO PENETRATIONS OF THE ROOF DECK IS ALLOWED.

PROHIBITED DUCT LOCATIONS: DO NOT ROUTE DUCTWORK THROUGH TRANSFORMER VAULTS, OR INTO ELECTRICAL ROOMS OR ELEVATOR EQUIPMENT SPACES UNLESS THE DUCTWORK IS DEDICATED TO SERVING THAT SPACE. DO NOT INSTALL DUCTWORK OVER ELEVATOR EQUIPMENT, ELECTRICAL DISTRIBUTION PANELS OR MOTOR CONTROL STATIONS.

BALANCING DEVICES: IN ORDER TO MAINTAIN CLARITY OF THE DRAWINGS, NOT ALL REQUIRED DUCT BALANCING DAMPERS ARE INDICATED. HOWEVER, PROVIDE EACH DUCT BRANCH AND EACH DUCT TAKEOFF WITH A BALANCING DAMPER TO ASSURE CORRECT BALANCE AND QUIET DISTRIBUTION OF INDICATED AIR QUANTITIES.

EQUIPMENT CONNECTIONS: PROVIDE AND INSTALL ALL DUCT CONNECTIONS TO AIR HANDLING UNITS AND FANS AND PROVIDE FLEXIBLE CONNECTIONS, ELBOWS AND BENDS WHICH MINIMIZE NOISE AND PRESSURE DROP. PROVIDE FLEXIBLE CONNECTIONS BETWEEN DUCTWORK AND ALL ROTATING OR VIBRATING EQUIPMENT.

COORDINATION: COORDINATE DIMENSIONS AT INTERFACES OF DISSIMILAR TYPE OF DUCTWORK AND AT INTERFACES OF DUCTWORK WITH EQUIPMENT SO THAT PROPER OVERLAPS, INTERFACES, ETC., OF INSULATION AND CONTINUITY OF VAPOR BARRIERS ARE MAINTAINED. WHERE DUCTS OF TWO DISSIMILAR METALS MEET, THE JOINTS SHALL BE INSTALLED SUCH THAT THE METALS DO NOT CONTACT EACH OTHER.

SUPPLY, RETURN, INTAKE, EXHAUST AND RELIEF DUCTWORK MINIMUM REQUIREMENTS: UNLESS OTHERWISE INDICATED ALL DUCTWORK SHALL COMPLY WITH THE FOLLOWING MINIMUM PRESSURE REQUIREMENTS:

3 INCH W.G. PRESSURE:
FROM THE SUPPLY FAN DISCHARGE TO A TERMINAL UNIT OR ZONE DAMPER INLET.

2 INCH W.G. PRESSURE:
FROM THE RETURN AIR INLET DEVICE TO THE INLET OF THE RETURN FAN OR AIR HANDLING FAN RETURN CONNECTION.
FROM THE DISCHARGE SIDE OF A TERMINAL UNIT TO THE ROOM SUPPLY AIR DEVICE.
FROM THE ROOM EXHAUST DEVICE TO THE INLET OF THE EXHAUST FAN.

ALL SUPPLY AND OUTSIDE AIR DUCTS SHALL BE EXTERNALLY INSULATED EXTENDING FROM SUPPLY FAN DISCHARGE, THROUGHOUT SYSTEM, TO ALL OUTLETS.

TOILET EXHAUST, GENERAL EXHAUST: DUCTWORK SHALL NOT HAVE INTERNAL INSULATION, AND DOES NOT HAVE TO BE EXTERNALLY INSULATED UNLESS OTHERWISE INDICATED.

CHANGES IN SHAPE OR DIMENSION CRITERIA, WHERE DUCT SIZE OR SHAPE IS ALTERED TO EFFECT A CHANGE IN AREA, THE FOLLOWING SHALL APPLY:
1. DO NOT EXCEED A SLOPE OF 1 INCH IN 7 INCHES FOR TRANSITIONS WITH INCREASING AREA.
2. DO NOT EXCEED A SLOPE OF 1 INCH IN 4 INCHES FOR TRANSITIONS WITH DECREASING AREA. 1 INCH IN 7 INCHES IS PREFERABLE AND SHOULD BE USED WHEN EVER POSSIBLE.
3. TRANSITION ANGLES SHALL NOT EXCEED 30 DEGREES AT INLET CONNECTIONS TO COILS OR OTHER EQUIPMENT, NOR 15 DEGREES AT OUTLET CONNECTIONS.

FLEXIBLE DUCTS

APPLICABLE STANDARDS: SMACNA: USE MATERIAL, WEIGHT, THICKNESS, GAUGE, REINFORCING, SEAMS AND JOINTS, SUSPENSION, WORKMANSHIP AND CONSTRUCTION AND INSTALLATION METHODS AS OUTLINED IN THE HVAC DUCT CONSTRUCTION STANDARDS, METAL & FLEXIBLE, FIRST EDITION, 1985. AND SHALL COMPLY WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.

MATERIALS: INSULATED FLEXIBLE DUCTS SHALL BE FACTORY-FABRICATED, PRE-INSULATED TYPE WITH SEAMLESS VAPOR BARRIER. FIBERGLASS INSULATION SHALL BE NOMINAL 1 INCH THICKNESS WITH MAXIMUM THERMAL CONDUCTANCE OF 0.23 BTU/HR-SQ.FT.-DEGREE F. AT 75 DEGREE F. MEAN TEMPERATURE. FLEXIBLE DUCT SHALL HAVE AN OPERATING PRESSURE RANGE OF MINUS 3.0 INCH W.G. TO PLUS 6 INCH W.G., MAXIMUM WORKING VELOCITY TO 4000 FPM AND TEMPERATURE RANGE TO 250 DEGREE F. INNER LINER SHALL BE CONTINUOUS AND CONSIST OF CORREGATED POLYTHYLENE (CPE) BONDED TO A METAL HELIX. VAPOR RETARDANT RATING SHALL BE 0.05 PERM MAXIMUM PER ASTM E96-A.

CODE REQUIREMENTS: THE DUCT SHALL BE UL181 LISTED AS A CLASS 1 AIR DUCT AND SHALL COMPLY WITH PARAGRAPHS 603.6 THRU 603.6.4 OF THE GOVERNING MECHANICAL CODE.

MANUFACTURER AND TYPE: THERMAFLEX M-KE OR FLEXMASTER 1M ARE ACCEPTABLE.

THERMAL INSULATION:

PERFORMANCE DATA: PROVIDE THERMAL PERFORMANCE, DENSITY AND VAPOR PERMEANCE FOR EACH TYPE OF INSULATION, FINISH, COVER, FACING OR JACKET SPECIFIED IN THIS DOCUMENT.

UNLESS OTHERWISE STATED, INSULATION TYPES AND THICKNESSES SPECIFIED ARE BASED ON INSULATING MATERIALS HAVING A "K" VALUE (BTU PER HOUR PER SQUARE FOOT PER DEGREE TEMPERATURE DIFFERENCE) PER INCH OF THICKNESS AS INDICATED.

VAPOR PERMEANCE IS BASED ON VAPOR RETARDANT MATERIALS HAVING WATER VAPOR TRANSMISSION RATES IN PERMS (GRAINS OF VAPOR PER HOUR PER SQUARE FOOT PER INCH OF MERCURY VAPOR PRESSURE DIFFERENTIAL).

ALTERNATE MATERIALS SHALL BE APPROVED ON THE BASIS OF THICKNESSES PROVIDING EQUIVALENT HEAT TRANSFER OR VAPOR TRANSMISSION RATES.

APPLICABLE STANDARDS: NFPA: ALL MATERIALS AND ADHESIVES USED SHALL CONFORM TO THE REQUIREMENTS OF NFPA 90A, 2015 REVISION, AS TO FLAME SPREAD AND SMOKE DEVELOPED RATINGS THROUGHOUT THEIR OPERATING TEMPERATURE RANGE. ALL INSULATION, JACKETS, FACINGS AND ADHESIVES USED TO ADHERE THE JACKET OR FACING TO THE INSULATION, INCLUDING FITTINGS AND BUTT STRIPS, SHALL HAVE A NON-COMBUSTIBLE FIRE AND SMOKE HAZARD RATING AND LABEL AS TESTED BY ASTM E-84, NFPA 255 AND UL-723 NOT EXCEEDING FLAME SPREAD VALUE OF 25 AND SMOKE DEVELOPED/FUEL CONTRIBUTED VALUE OF 50. ACCESSORIES SUCH AS MASTICS, CEMENTS, TAPES AND CLOTH FOR FITTINGS SHALL HAVE THE SAME RATINGS.

INSULATION THERMAL CONDUCTANCE VALUES AND INSULATION THICKNESS SHALL COMPLY WITH THE GOVERNING MECHANICAL CODE.

INSULATION FOR DUCT SYSTEMS: GENERAL: AIR HANDLING UNIT CASINGS DOWNSTREAM OF COOLING COILS SHALL BE INSULATED. INSULATE SUPPLY AND RETURN AIR DUCTS FOR HEATING AND AIR CONDITIONING SYSTEMS FROM SUPPLY FAN DISCHARGE TO ROOM OUTLETS ON ALL SYSTEMS. OUTSIDE AIR DUCTS SHALL BE EXTERNALLY INSULATED, EXCEPT WHERE LOCATED IN MECHANICAL EQUIPMENT ROOMS.

INSULATE WITH A MINIMUM OF 2 INCH THICK FIBERGLASS BLANKET WRAP APPLIED OVER CLEAN, DRY SHEET METAL DUCTWORK INSTALLED TO ALLOW MAXIMUM FULLNESS AT CORNERS (AVOID EXCESSIVE COMPRESSION). ADHERE DUCT INSULATION TO METAL AND PROVIDE CONTINUITY OF VAPOR RETARDANT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE DUCT WIDTH EXCEEDS 24 INCHES, THE INSULATION SHALL BE ADDITIONALLY SECURED TO THE BOTTOM OF THE DUCT USING MECHANICAL FASTENERS SPACED 1 FOOT ON CENTER TO PREVENT SAGGING OF THE INSULATION.

DUCTWORK INSULATION SHALL BE INORGANIC FIBROUS GLASS, FLEXIBLE BLANKET OF GLASS FIBER FACTORY LAMINATED TO A REINFORCED FOIL KRAFT (FRK) VAPOR RETARDANT WITH A MINIMUM 2 INCH TAPING AND STAPLING FLANGE ON ONE EDGE. SUITABLE FOR OPERATION AT TEMPERATURES FROM 40 DEGREES F. TO 250 DEGREES F. THERMAL CONDUCTIVITY OF 0.31 AT 75 DEGREES F. MINIMUM DENSITY OF 1-1/2 PCF.

MANUFACTURER: OWENS-CORNING, SCHULLER, CERTAINTEED, KNAUF

PIPING

ALL PRESSURIZED PIPING SYSTEMS SHALL CONFORM TO ASME B31.9, CODE FOR PRESSURE PIPING, BUILDING SERVICES PIPING.

BEFORE FINAL TESTING, FLUSH PIPING SYSTEMS WITH CLEAN WATER TO REMOVE DEBRIS. DISCONNECT ALL COILS FROM SYSTEM BEFORE FLUSHING. FLUSH ALL COILS SEPARATE FROM SYSTEM. PROVIDE TEMPORARY VALVES AND DRAINS AS REQUIRED.

PRIOR TO INSULATING AND CONCEALING THE PIPING SYSTEM, APPLY A WATER PRESSURE TEST TO ALL PARTS OF EACH SYSTEM BEFORE EQUIPMENT IS CONNECTED. USE A HYDROSTATIC PRESSURE OF NOT LESS THAN 100 PSIG OR 150 PERCENT OF SYSTEM OPERATING PRESSURE WHICHEVER IS GREATER. TEST SYSTEM FOR A PERIOD NOT LESS THAN FOUR HOURS. THERE SHALL BE NO LEAKS AT ANY POINT IN THE SYSTEM AT THIS PRESSURE.

HOT WATER PIPING:

PROVIDE AND INSTALL PIPE AND FITTINGS AS INDICATED, INCLUDING ALL OFFSETS, FITTINGS, SLEEVES AND SIMILAR ITEMS REQUIRED BUT NOT NECESSARILY INDICATED DUE TO DRAWING SCALE FOR COMPLETE AND OPERABLE SYSTEMS.

ALL PRESSURIZED PIPING SYSTEMS SHALL CONFORM TO ASME B31.9, CODE FOR PRESSURE PIPING, BUILDING SERVICES PIPING.

COPPER PIPING, ANNEALED SEAMLESS HARD TEMPER TYPE "L" AND COMPLYING WITH ASTM B-88 SHALL BE USED FOR PIPE SIZES UP TO 2".

COPPER FITTINGS SHALL BE STREAMLINED PATTERN, WROUGHT OR CAST BRASS CONFORMING TO ANSI B16.22 OR WROUGHT BRONZE CONFORMING TO ANSI B16.15.

FITTINGS SHALL AT A MINIMUM, HAVE THE SAME WALL THICKNESS AS THE CONNECTED PIPING AND SHALL BE COMPATIBLE WITH THE PIPING MATERIAL. THE USE OF FIELD FABRICATED FITTINGS IS PROHIBITED.

DIELECTRIC UNIONS OR FLANGES SHALL BE PROVIDED AT ALL JUNCTIONS OF COPPER OR BRASS PIPE OR FITTINGS AND FERROUS MATERIAL TO PREVENT ELECTROLYSIS AND GALVANIC CORROSION. WHERE COPPER OR BRASS COME IN CONTACT WITH FERROUS PIPING SYSTEMS MATERIALS, ISOLATE THE TWO MATERIALS WITH A NON-CONDUCTIVE NEOPRENE SPACER.

DIELECTRIC COUPLINGS SHALL BE RATED FOR AT LEAST 150 PERCENT OF MAXIMUM WORKING PRESSURE OF THE PIPING SYSTEM AND AT LEAST 50 F HIGHER THAN THE MAXIMUM OPERATING TEMPERATURE OF THE PIPING SYSTEM IN WHICH THEY ARE INSTALLED. COUPLINGS SHALL BE ELECTROPLATED STEEL OR BRASS WITH INERT AND NON-CORRISIVE THERMOPLASTIC LINING OR BRONZE FITTINGS.

PROVIDE DIELECTRIC INSULATING UNIONS IN PIPING 2 INCH AND SMALLER WITH THREADED OR SOLDER JOINT CONNECTIONS.

PIPE AND FITTINGS SHALL BE INSTALLED WITH A MIN. OF JOINTS AND COUPLINGS BUT WITH ADEQUATE AND ACCESSIBLE UNIONS FOR DISASSEMBLY AND MAINTENANCE REPLACEMENT VALVES AND EQUIPMENT. REDUCE SIZES WERE INDICTED USING REDUCING FITTINGS.

PIPING SHALL BE RAN WITHOUT TRAPS OR POCKETS AND A MIN. 1 INCH IN 40 FEET IN THE DIRECTION OF FLOW.

PIPING SHALL BE RAN PARALLEL TO THE WALLS AND CEILINGS WITH A MINIMUM OF 6 INCH CLEARANCE BETWEEN WALLS AND HORIZONTAL PIPING.

PIPE REQUIRING INSULATION SHALL BE INSTALLED WITH SUFFICIENT CLEARANCES TO PERMIT PROPER APPLICATION OF INSULATION.

DO NOT RUN PIPING OVER ELECTRICAL PANELS, TRANSFORMER VAULTS, ELEVATOR EQUIPMENT ROOMS OR ELECTRONIC EQUIPMENT SPACES AND ENCLOSURES.

PIPING SHALL BE INSTALLED WITH PROVISION FOR PIPE EXPANSION BOTH HORIZONTALLY AND VERTICALLY.

BEFORE FINAL TESTING, FLUSH PIPING SYSTEMS WITH CLEAN WATER TO REMOVE DEBRIS. DISCONNECT ALL COILS FROM SYSTEM BEFORE FLUSHING. FLUSH ALL COILS SEPARATE FROM SYSTEM. PROVIDE TEMPORARY VALVES AND DRAINS AS REQUIRED.

PRIOR TO INSULATING AND CONCEALING THE PIPING SYSTEM, APPLY A WATER PRESSURE TEST TO ALL PARTS OF EACH SYSTEM BEFORE EQUIPMENT IS CONNECTED. USE A HYDROSTATIC PRESSURE OF NOT LESS THAN 100 PSIG OR 150 PERCENT OF SYSTEM OPERATING PRESSURE WHICHEVER IS GREATER. TEST SYSTEM FOR A PERIOD NOT LESS THAN FOUR HOURS. THERE SHALL BE NO LEAKS AT ANY POINT IN THE SYSTEM AT THIS PRESSURE.

CHILLED WATER PIPING:

PROVIDE AND INSTALL PIPE AND FITTINGS AS INDICATED, INCLUDING ALL OFFSETS, FITTINGS, SLEEVES AND SIMILAR ITEMS REQUIRED BUT NOT NECESSARILY INDICATED DUE TO DRAWING SCALE FOR COMPLETE AND OPERABLE SYSTEMS. ALL PRESSURIZED PIPING SYSTEMS SHALL CONFORM TO ASME B31.9, CODE FOR PRESSURE PIPING, BUILDING SERVICES PIPING.

CHILLED WATER PIPING ABOVE TWO INCHES IN DIAMETER SHALL BE FORMED FROM WELDED, SEAMLESS ASTM A-53, GRADE B, AND STANDARD WEIGHT STEEL PIPE.

SMALLER CHILLED WATER PIPING SHALL BE FORMED FROM TYPE L, ASTM B-88, COPPER WITH FITTINGS. COLD CONDENSATE PIPING SHALL BE TYPE L COPPER.

COPPER FITTINGS SHALL BE STREAMLINED PATTERN, WROUGHT OR CAST BRASS CONFORMING TO ANSI B16.22 OR WROUGHT BRONZE CONFORMING TO ANSI B16.15.

FITTINGS SHALL AT A MINIMUM, HAVE THE SAME WALL THICKNESS AS THE CONNECTED PIPING AND SHALL BE COMPATIBLE WITH THE PIPING MATERIAL. THE USE OF FIELD FABRICATED FITTINGS IS PROHIBITED.

DIELECTRIC UNIONS OR FLANGES SHALL BE PROVIDED AT ALL JUNCTIONS OF COPPER OR BRASS PIPE OR FITTINGS AND FERROUS MATERIAL TO PREVENT ELECTROLYSIS AND GALVANIC CORROSION. WHERE COPPER OR BRASS COME IN CONTACT WITH FERROUS PIPING SYSTEMS MATERIALS, ISOLATE THE TWO MATERIALS WITH A NON-CONDUCTIVE NEOPRENE SPACER.

DIELECTRIC COUPLINGS SHALL BE RATED FOR AT LEAST 150 PERCENT OF MAXIMUM WORKING PRESSURE OF THE PIPING SYSTEM AND AT LEAST 50 F HIGHER THAN THE MAXIMUM OPERATING TEMPERATURE OF THE PIPING SYSTEM IN WHICH THEY ARE INSTALLED. COUPLINGS SHALL BE ELECTROPLATED STEEL OR BRASS WITH INERT AND NON-CORRISIVE THERMOPLASTIC LINING OR BRONZE FITTINGS.

PROVIDE DIELECTRIC INSULATING UNIONS IN PIPING 2 INCH AND SMALLER WITH THREADED OR SOLDER JOINT CONNECTIONS.

PIPE AND FITTINGS SHALL BE INSTALLED WITH A MIN. OF JOINTS AND COUPLINGS BUT WITH ADEQUATE AND ACCESSIBLE UNIONS FOR DISASSEMBLY AND MAINTENANCE REPLACEMENT VALVES AND EQUIPMENT. REDUCE SIZES WERE INDICTED USING REDUCING FITTINGS.

PIPING SHALL BE RAN WITHOUT TRAPS OR POCKETS AND A MIN. 1 INCH IN 40 FEET IN THE DIRECTION OF FLOW.

PIPING SHALL BE RAN PARALLEL TO THE WALLS AND CEILINGS WITH A MINIMUM OF 6 INCH CLEARANCE BETWEEN WALLS AND HORIZONTAL PIPING.

PIPE REQUIRING INSULATION SHALL BE INSTALLED WITH SUFFICIENT CLEARANCES TO PERMIT PROPER APPLICATION OF INSULATION.

DO NOT RUN PIPING OVER ELECTRICAL PANELS, TRANSFORMER VAULTS, ELEVATOR EQUIPMENT ROOMS OR ELECTRONIC EQUIPMENT SPACES AND ENCLOSURES.

PIPING SHALL BE INSTALLED WITH PROVISION FOR PIPE EXPANSION BOTH HORIZONTALLY AND VERTICALLY.

PIPING IDENTIFICATION:

PROVIDE PIPE IDENTIFICATION CONSISTING OF SETON SNAP-ON PLASTIC SLEEVES OR EQUAL. PROVIDE PAINT ON PIPING AT SCOPE AREA BOUNDRIES PER DETAIL 1/M-003.

PIPE INSULATION:

ACCEPTABLE INSULATION MANUFACTURERS OF FLEXIBLE ELASTOMERIC INSULATION PRODUCTS INCLUDE ARMSTRONG, HALSTEAD, MANVILLE, RUBATEX, OR SPECIFICALLY APPROVED EQUAL.

INSULATION AND ACCESSORIES SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84-75, NFPA 225, UL 723, AND FURTHER MUST MEET THE REQUIREMENTS OF NFPA 90-A.

PROVIDE FIRE-RETARDANT CLOSED-CELL SLIP-ON FLEXIBLE TYPE. PRODUCT SHALL HAVE CONTINUOUS OPERATIONAL TEMPERATURE LIMIT OF NOT LESS THAN 220 DEGREES F, AND A MINIMUM "F" VALUE OF ((3.70 DEGREE F/FT/HR) 1/2BTUH) PER INCH THICKNESS AT 75 DEGREES F AMBIENT.

PIPE REQUIRING INSULATION SHALL BE INSTALLED WITH SUFFICIENT CLEARANCES TO PERMIT PROPER APPLICATION OF INSULATION AND MAINTAIN REQUIRED CLEARANCES.

USE ELASTOMERIC PIPING INSULATION FOR THE FOLLOWING SERVICES:
BOTH REFRIGERANT AND CONDENSATE LINES SHALL HAVE 3/4" THICK INSULATION OF AS REQUIRED BY APPLICABLE ENERGY CODES, WHICH EVER IS MORE STRINGENT.

USE FIBERGLASS PIPING INSULATION FOR THE FOLLOWING SERVICES:

HEATING WATER LINES	1-1/2" THK, 1-1/4" PIPE SIZE & UNDER
HEATING WATER LINES	2" THK, 1-1/2" PIPE SIZE & GREATER

USE FOAMGLASS PIPING INSULATION FOR THE FOLLOWING SERVICES:

CHILLED WATER LINES	1-1/2" THK, 2" PIPE SIZE & UNDER
CHILLED WATER LINES	2" THK, 2-1/2" PIPE SIZE & GREATER

JACKET SHALL BE REINFORCED KRAFT PAPER WITH ALUMINUM FOIL. PREMOLDING FITTING MATERIAL (INSERTS) SHALL BE PRECISELY CUT OR MITERED TO FIT AND TAPED TO FORM A FULLY INSULATED PIPE COVERING. USE ADHESIVE AND / OR TAPE SPECIFIED FOR TYPE OF INSULATION TO INSURE A THOROUGH VAPOR BARRIER.

PRIOR TO INSULATING AND CONCEALING THE PIPING SYSTEM, APPLY A WATER PRESSURE TEST TO ALL PARTS OF EACH SYSTEM BEFORE EQUIPMENT IS CONNECTED. USE A HYDROSTATIC PRESSURE OF NOT LESS THAN 100 PSIG OR 150 PERCENT OF SYSTEM OPERATING PRESSURE WHICHEVER IS GREATER. TEST SYSTEM FOR A PERIOD NOT LESS THAN FOUR HOURS. THERE SHALL BE NO LEAKS AT ANY POINT IN THE SYSTEM AT THIS PRESSURE.

RANDALL
PAULSON
architects
Roswell . Nashua

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

architecture/interiors

04/25/25
No. PE42711

INTERIOR RENOVATION

at

MARCUS STROKE AND NEUROSCIENCE ANGIO 1 REPLACEMENT

for

Grady

GRADY MEMORIAL HOSPITAL
SUITE 8-A
80 JESSE HILL, JUNIOR DRIVE
SE
ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	KC	MM
25 APR 25	ISSUE FOR PERMIT	KC	MM

Revisions

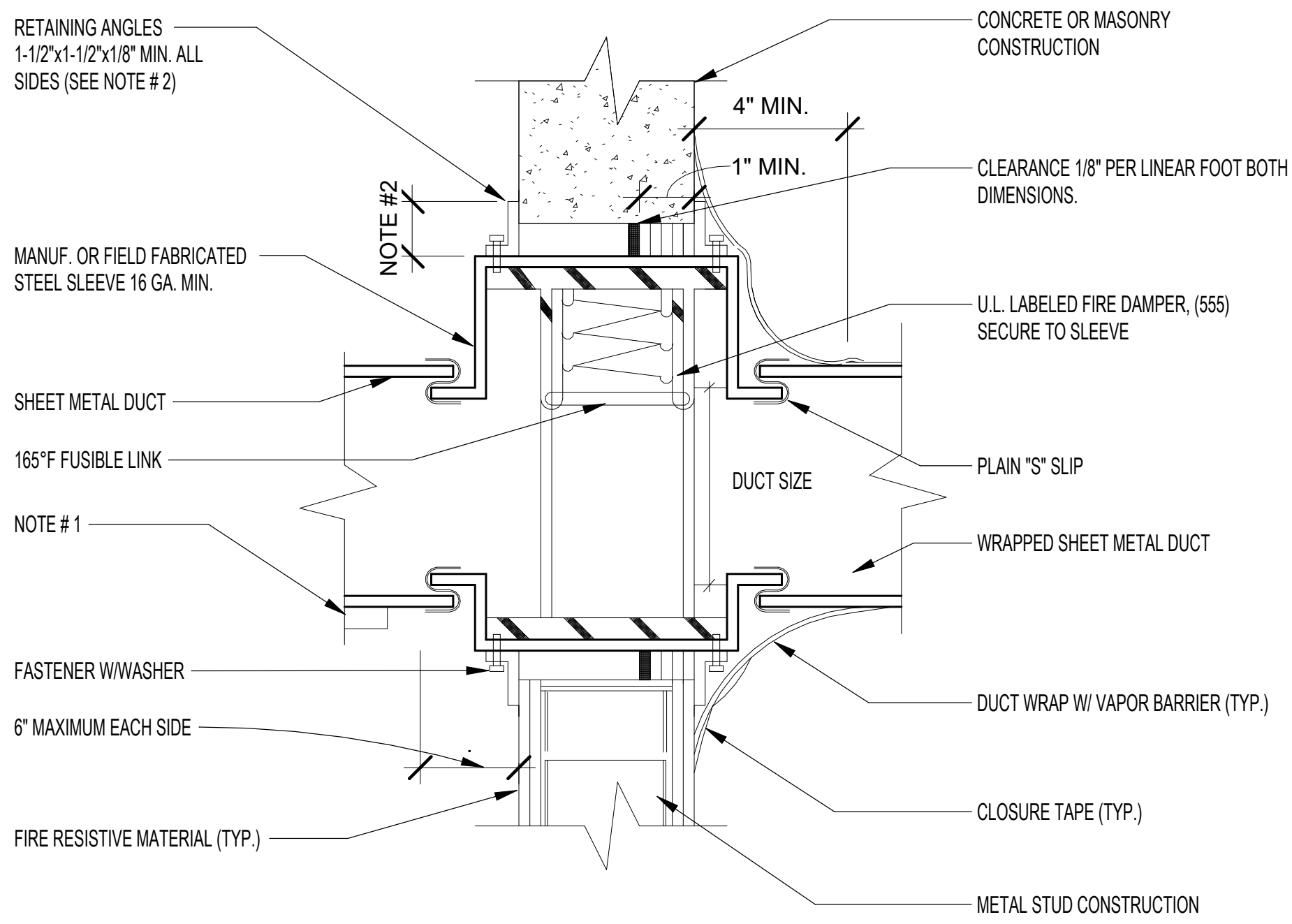
Date 01/21/22
Project No. 2024509.00

Sheet Title
MECHANICAL SPECIFICATIONS

TLC ENGINEERING SOLUTIONS
4360 Chamblee Dunwoody Rd.
Suite 210
Atlanta, GA 30341
P 770.451.6757
COA 15
www.tlc-engineers.com
TLC No:824325
THINK. LISTEN. CREATE.

Sheet No.
M-002

■ Released for Construction
☐ Not Released for Construction


RETAINING ANGLES 1-1/2"x1-1/2"x1/8" MIN. ALL SIDES (SEE NOTE # 2)
CONCRETE OR MASONRY CONSTRUCTION
4" MIN.
1" MIN.
NOTE #2
CLEARANCE 1/8" PER LINEAR FOOT BOTH DIMENSIONS.
MANUF. OR FIELD FABRICATED STEEL SLEEVE 16 GA. MIN.
U.L. LABELED FIRE DAMPER, (555) SECURE TO SLEEVE
SHEET METAL DUCT
165°F FUSIBLE LINK
PLAIN "S" SLIP
DUCT SIZE
NOTE # 1
WRAPPED SHEET METAL DUCT
FASTENER W/WASHER
DUCT WRAP W/ VAPOR BARRIER (TYP.)
6" MAXIMUM EACH SIDE
CLOSURE TAPE (TYP.)
FIRE RESISTIVE MATERIAL (TYP.)
METAL STUD CONSTRUCTION

NOTES:

1.PROVIDE ACCESS DOOR & LABEL ON SIDE OR BOTTOM OF DUCT AS FOLLOWS:

DUCT WIDTH	DOOR SIZE
< 12"	UPSIZE DUCT AS REQUIRED TO ACCOMMODATE 12"X12" DUCT ACCESS DOOR OR PROVIDE REMOVABLE DUCT SECTION
14" THRU 20"	12"X12"
22" AND ABOVE	18"X18"

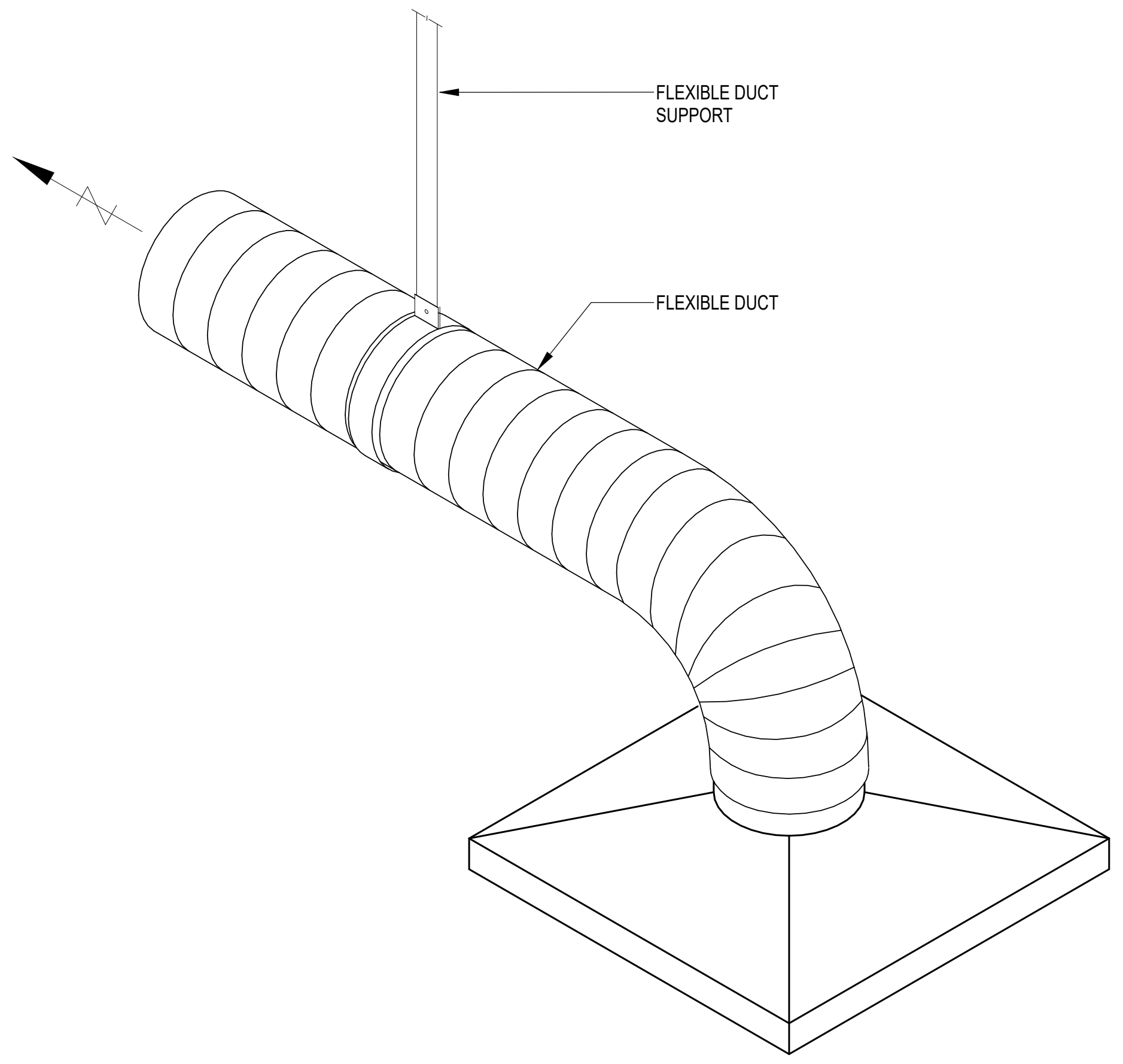
2. 1-1/2"X1-1/2"X1/8 RETAINING ANGLES SHALL LAP STRUCTURAL OPENING 1" MIN. & COVER CORNERS OF OPENINGS. ANGLES ATTACH TO SLEEVE ONLY AND MUST NOT BE ATTACHED TO EACH OTHER AT CORNERS OR TO WALL.

3. ALL ATTACHMENTS PER MANUFACTURER'S APPROVED INSTALLATION INSTRUCTION.

4. VERTICAL POSITION SHOWN. HORIZONTAL INSTALLATION SIMILAR. DAMPER TO BE SPRING LOADED WHEN HORIZONTAL

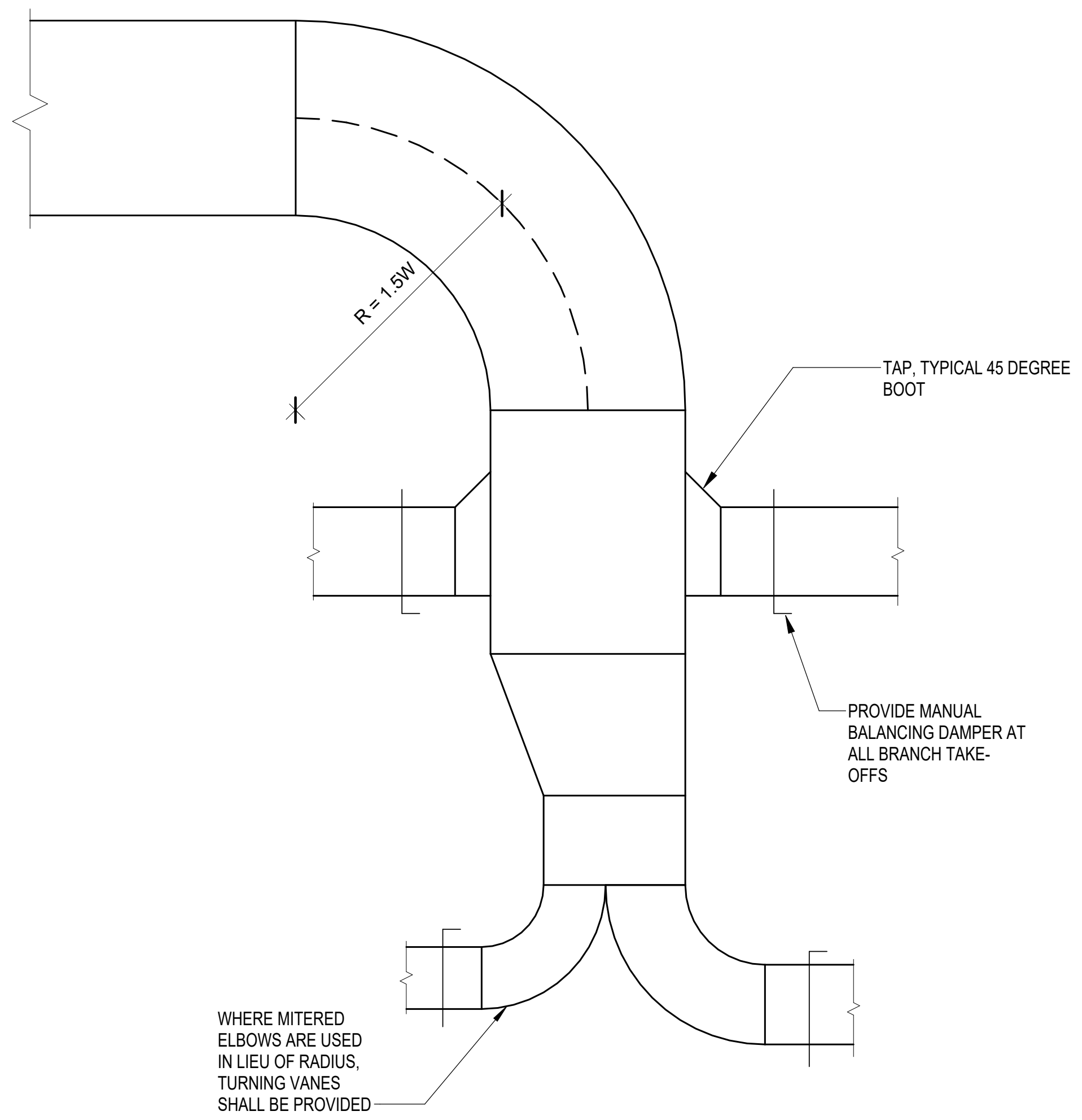
FIRE DAMPER INSTALLATION
No Scale

10


FLEXIBLE DUCT SUPPORT
FLEXIBLE DUCT

FLEXIBLE DUCT SUPPORT
No Scale

7


R = 1.5W
TAP, TYPICAL 45 DEGREE BOOT
PROVIDE MANUAL BALANCING DAMPER AT ALL BRANCH TAKE-OFFS
WHERE MITERED ELBOWS ARE USED IN LIEU OF RADIUS, TURNING VANES SHALL BE PROVIDED

TYPICAL LOW PRESSURE DUCTWORK
No Scale

4

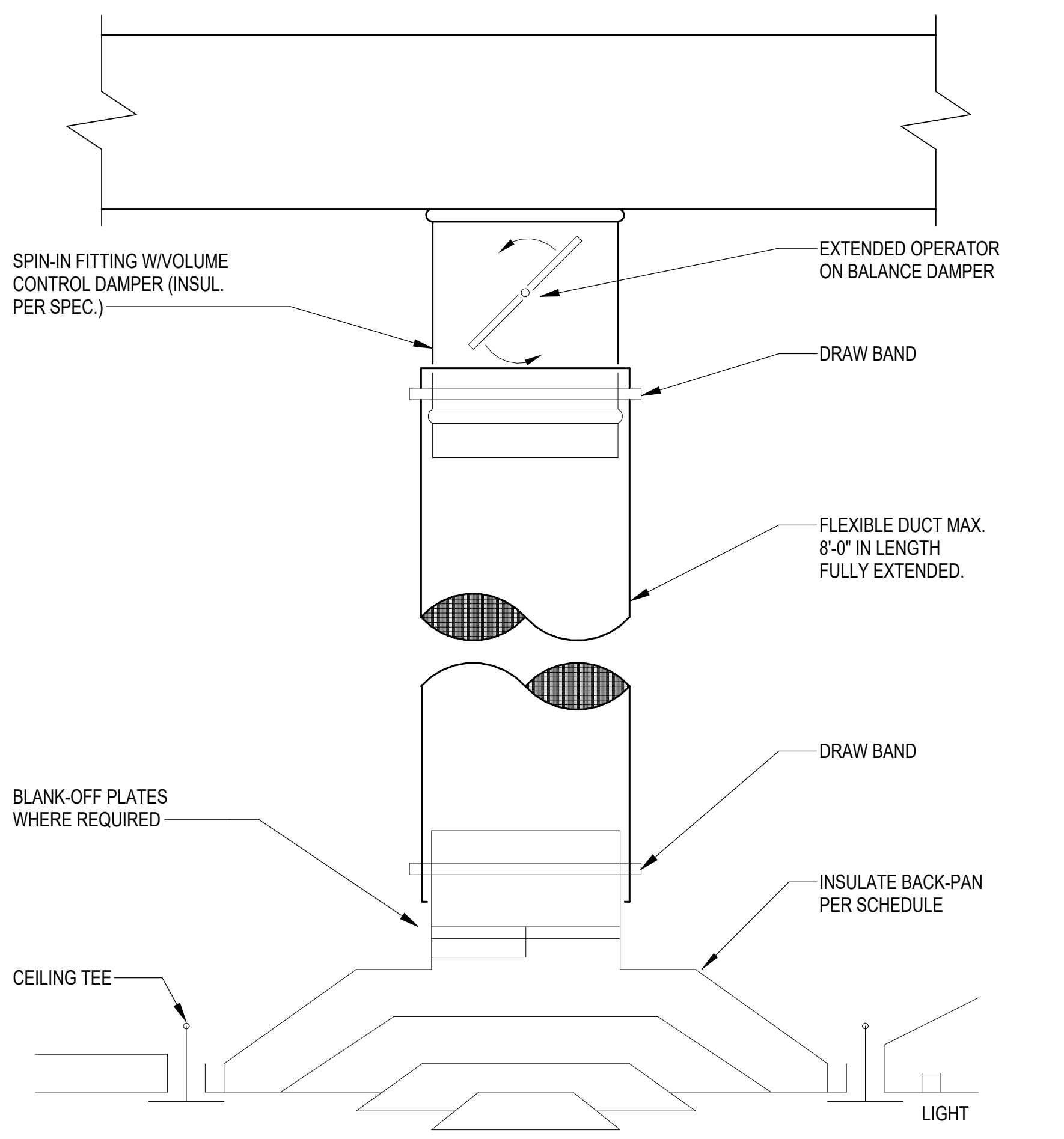
SYSTEM IDENTIFICATION CHART

SYSTEM	COLOR	COLOR NUMBER
HEATING HOT WATER SUPPLY	RED	255, 0, 0
HEATING HOT WATER RETURN	MAGENTA	211, 56, 211
EXHAUST AIR DUCT	GREEN	0, 128, 0
OUTSIDE AIR DUCT	BLUE	51, 187, 200
RETURN AIR DUCT	ORANGE	170, 85, 0
SUPPLY AIR DUCT	BLUE	0, 0, 255
STEAM/PRESSURIZED CONDENSATE	YELLOW	255, 255, 0
CONDENSATE- GRAVITY	GREEN	0, 205, 0
CONDENSER WATER	GRAY	127, 127, 127
CHILLED WATER	GRAY	127, 127, 127
PROCESS CHILLED WATER	GRAY	127, 127, 127
UNKNOWN PIPE OR DUCT	GRAY	127, 127, 127

NOTES:
1. WHERE A NEW OR EXISTING PIPE OR DUCT PENETRATES THE FLOOR SLAB, CEILING SLAB, OR A SHAFT WALL: PAINT THE FIRST 18" SUCH THAT THE COLOR IS VISIBILE ON ALL SIDES
2. PAINT SHALL NOT REPLACE THE NEED FOR OTHER LABELING TYPES. PAINT SHALL NOT OBSCURE OTHER LABLES.

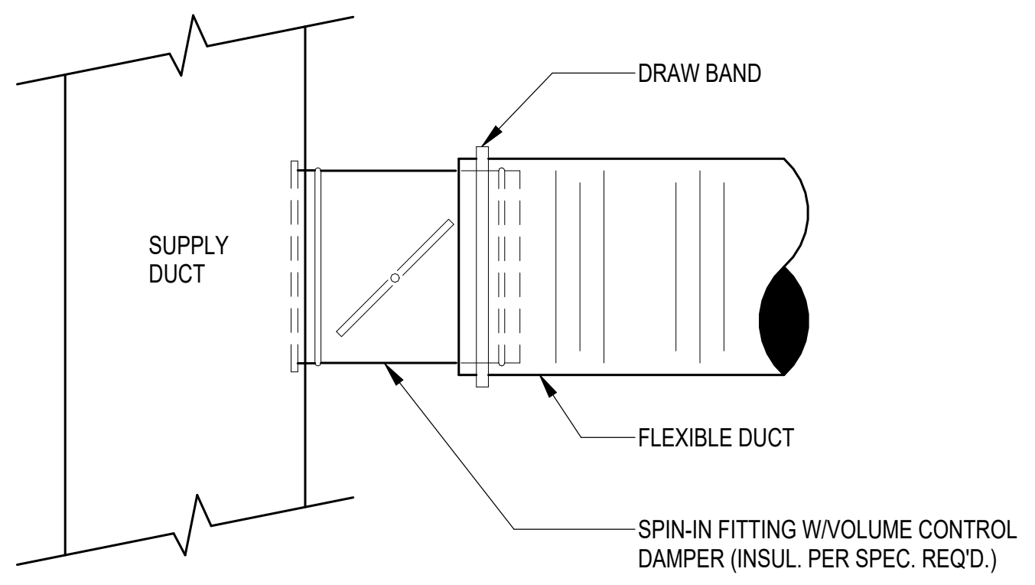
GRADY MECHANICAL COLOR CHART
No Scale

1


SPIN-IN FITTING W/VOLUME CONTROL DAMPER (INSUL. PER SPEC.)
EXTENDED OPERATOR ON BALANCE DAMPER
DRAW BAND
FLEXIBLE DUCT MAX. 8'-0" IN LENGTH FULLY EXTENDED.
DRAW BAND
BLANK-OFF PLATES WHERE REQUIRED
INSULATE BACK-PAN PER SCHEDULE
CEILING TEE
LIGHT

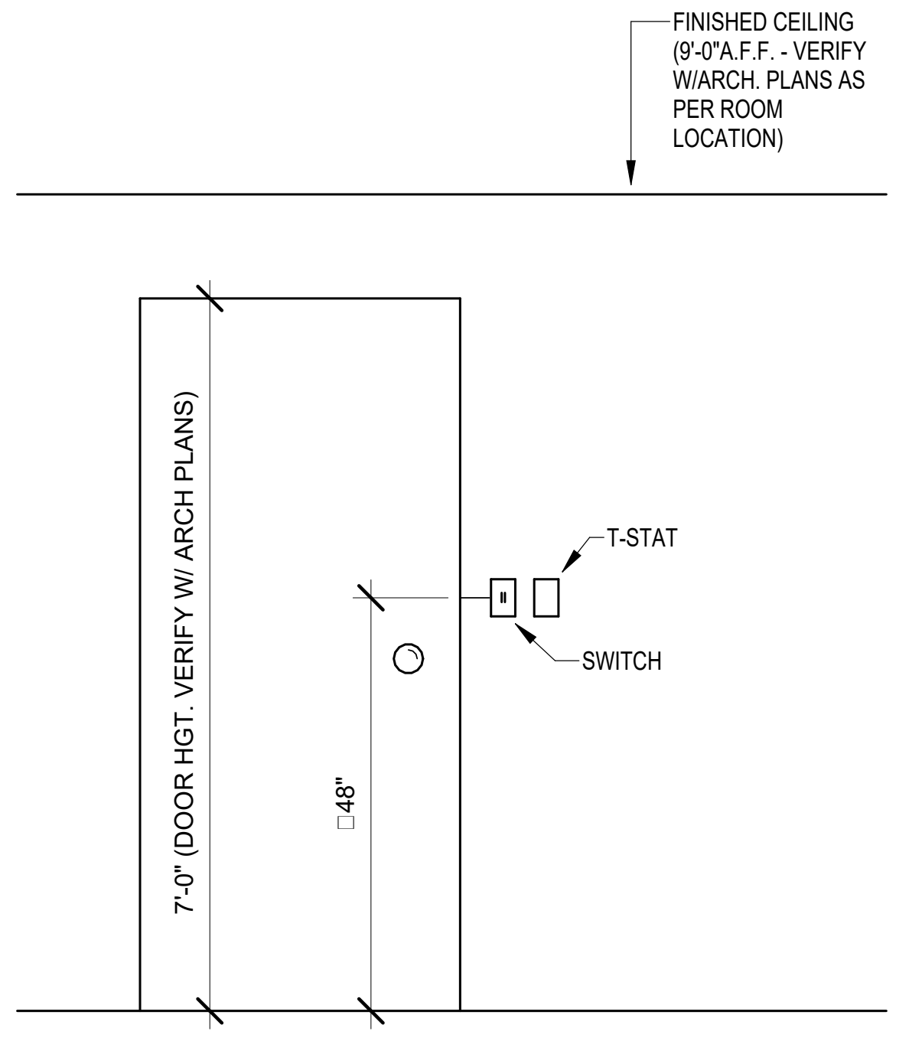
DIFFUSER MOUNTING
No Scale

8


DRAW BAND
SUPPLY DUCT
FLEXIBLE DUCT
SPIN-IN FITTING W/VOLUME CONTROL DAMPER (INSUL. PER SPEC. REQ'D.)

TYPICAL FLEX DUCT CONNECTION
No Scale

5


FINISHED CEILING (9'-0"A.F.F. - VERIFY W/ARCH. PLANS AS PER ROOM LOCATION)
7'-0" (DOOR HGT. VERIFY W/ ARCH PLANS)
48"
T-STAT
SWITCH

NOTES:
THE CONSTRUCTION OF THIS PROJECT SHALL REQUIRE THE CAREFUL PLACEMENT OF ALL ARCHITECTURAL, MEP AND I.T. &S. DEVICES IN A COHESIVE, CONSISTENT FASHION THAT REFLECTS CLOSE COORDINATION. ALL DEVICES SHALL BE ALIGNED OVER A SHARED CENTERLINE WHEN LOCATED ADJACENTLY. THE CONTRACTOR SHALL ROUGH-IN AND LOCATE ALL DEVICES IN CONFORMANCE WITH ARCHITECTURAL DESIGN STANDARDS AND INTENT.

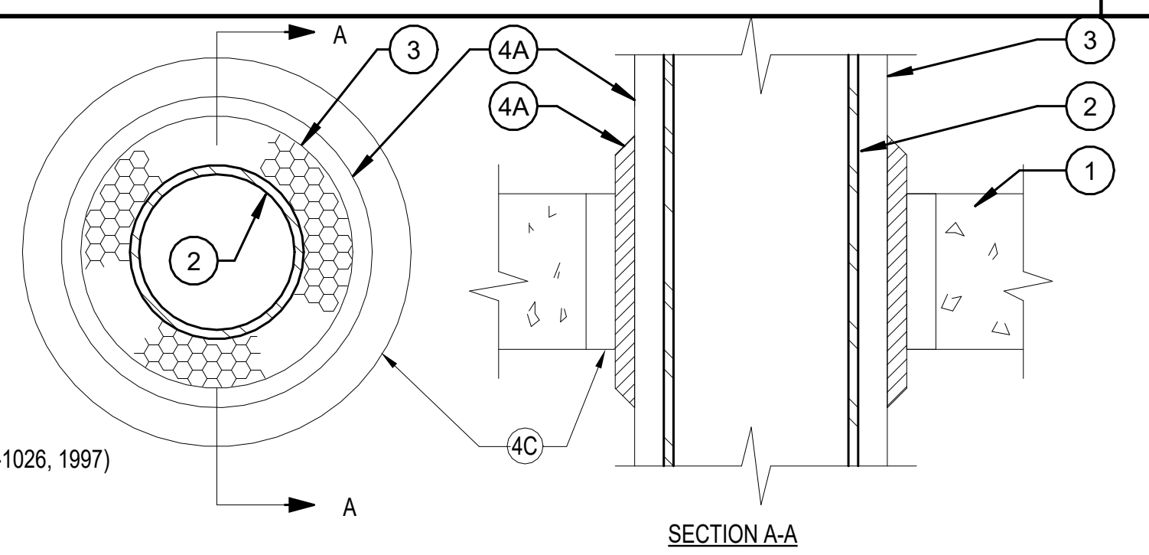
LOCATE THERMOSTAT ABOVE LIGHT SWITCH AT ALL LOCATIONS WHERE THERMOSTAT IS SHOWN ADJACENT TO DOOR. FOR THERMOSTATS LOCATED AT LOCATIONS OTHER THAN A DOOR, LOCATE THERMOSTAT AS SHOWN ON PLANS AND COORDINATE WITH ADJACENT WALL MOUNTED ITEMS TO PROVIDE A COORDINATED WALL.

THERMOSTAT TYPICALLY WILL BE MOUNTED AT 54" AFF TO ACCOMODATE SIDE WHEELCHAIR ACCESS. WHERE ACCESS TO LOCATION IS LIMITED TO FRONT WHEELCHAIR ACCESS ONLY, THERMOSTAT WILL BE INSTALLED AT 48" AFF.

LOCATE PRESURE MONITOR ADJACENT ON THE CORRIDOR WALL, ADJACENT TO THE ROOM SIGNAGE.

MOUNTING HEIGHT
No Scale

2


A
3
4A
4A
3
2
1
2
4C
A
SECTION A-A

(REF. UL SYSTEM #C-AJ-1026, 1997)

NOTES:

① Floor or Wall Assembly - Min. 4 1/2 in. thick lightweight or normal weight (100-150 pcf) concrete with a max. 15 in. dia. opening.

② Steel Pipe or Conduit - Nom. 8 in. dia. (or smaller) Schedule 10S (or heavier) steel pipe or rigid galvanized steel conduit centered in the opening. A max. of one pipe or conduit is permitted in the fire-stop system.

③ Pipe Covering Material - Optional - The following types of pipe covering may be used:
a. Nominal 2 in. thick hollow cylindrical heavy density (min. 3.5 pcf) glass fiber units jacketed on the outside with a PVC facing. Longitude joints sealed with metal fasteners or factory applied SSL. Transverse joints sealed with metal fasteners or with butt strip tape supplied with the product.
b. Nominal 1 in. thick hollow cylindrical heavy density (min. 6 pcf) hydrous calcium silicate units covered with a PVC facing pipe insulation secured together with steel-tie wire.
See Pipe and Equipment Covering Materials - (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering meeting the above specifications and bearing the UL Classification Marking.

④ Fire-Stop System - The hourly T-rating of the fire-stop system is dependent upon the size of the pipe or conduit, the type of pipe covering (Item 3) the absence of pipe covering, and annular space between the periphery of the openingpresence or absence of pipe covering, and annular space between the periphery of the opening and pipe covering and annular space within the opening.

Max. pipe or Conduit Dia.	Typ. of Pipe Covering	Thickness of Pipe Covering	Annular Space	T Rating
8"	CS	1"	1-1/2"	1-1/2h
8"	FG	2"	1-1/2"	1 h
8"	-	-	2-1/2"	0 h

(a) CS = Calcium silicate
FG = Fiberglass

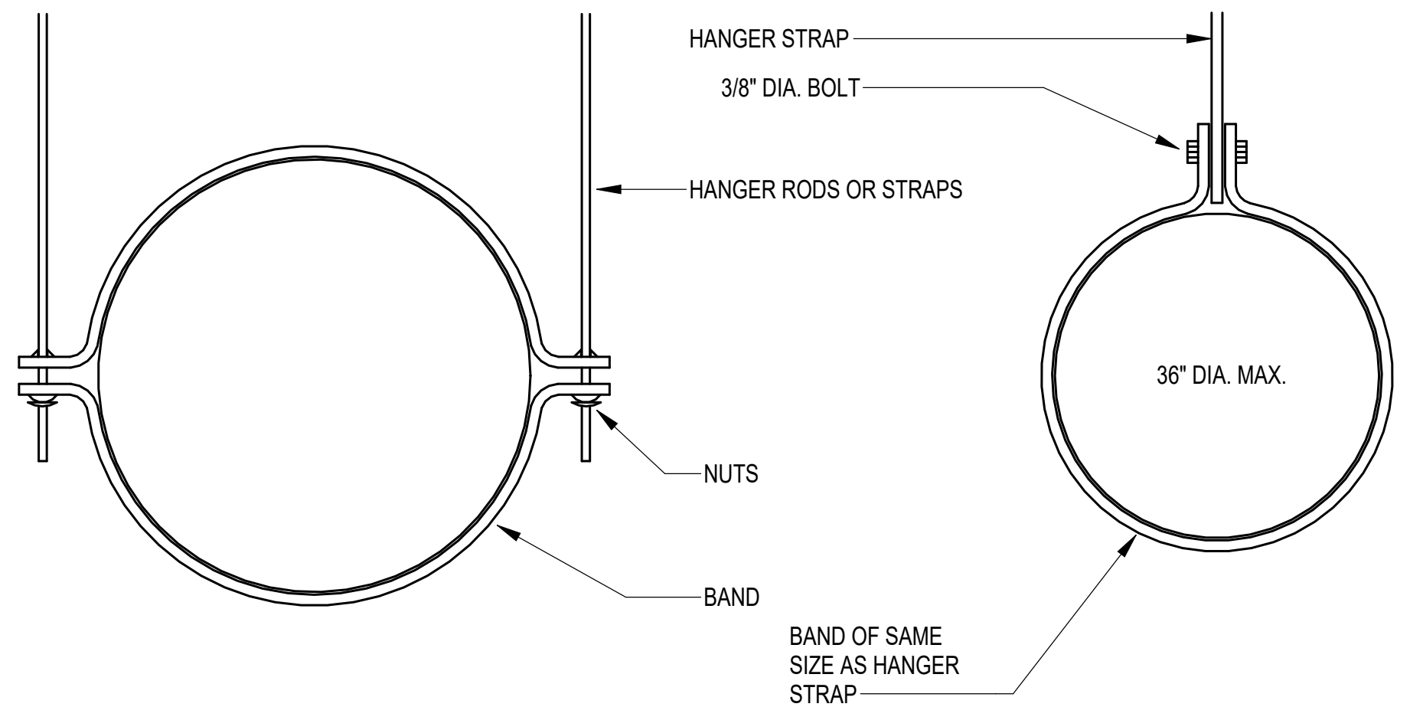
(4A) Insulation - ceramic fiber blanket nom. 1 in. thick, min. 1 pcf density wrapped around the circumference of the pipe or conduit and secured together by means of fiberglass tape. Blanket position such that it extends a min. of 2 in. beyond both surfaces of the floor or wall assembly.

(4B) Fill, Void, or Cavity Material - Blanket* - Blanket wrapped around the circumference of the pipe and insulation with vertical seams overlapping 1 in. Position blanket within the opening such that it extends a min. of 4 in. beyond both surfaces and secured together with metal staples and plastic cable ties.

(4C) Fill, Void, or Cavity Material - Mastic* - Material that is troweled or applied with a caulking gun to fill the annular space between the blanket and the periphery of the opening. Min. thickness shall be 4-1/2 in.

FIRE RATED FLOOR / WALL PIPE PENETRATION
No Scale

9


HANGER STRAP
3/8" DIA. BOLT
HANGER RODS OR STRAPS
36" DIA. MAX.
NUTS
BAND
BAND OF SAME SIZE AS HANGER STRAP

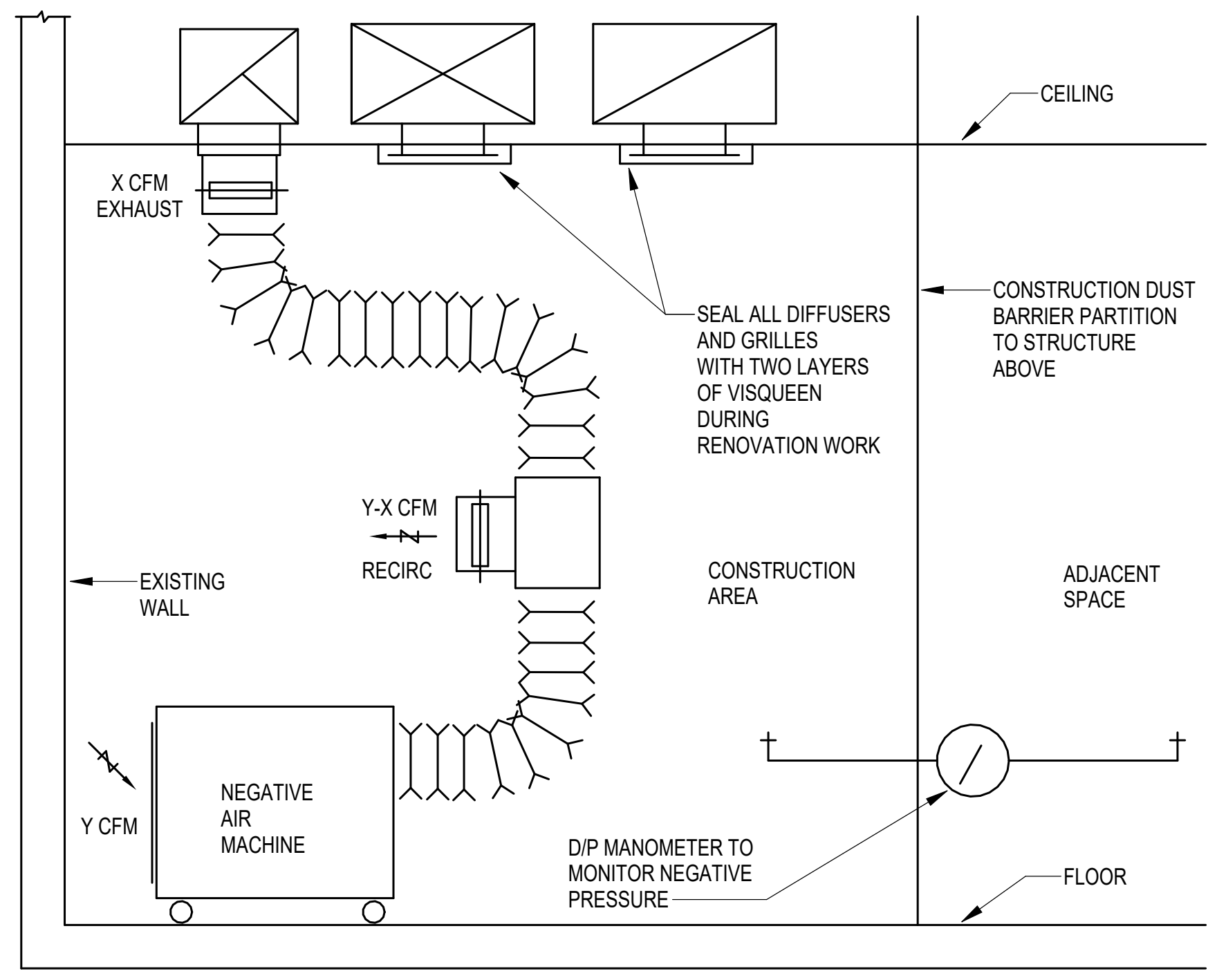
MINIMUM HANGER SIZES FOR ROUND DUCT

DUCT DIAMETER	MAXIMUM SPACING	WIRE		ROD		STRAP	
		QUAN.	SIZE	QUAN.	SIZE	QUAN.	SIZE
10" OR LESS	12'-0"	1	12 GAUGE	1	1/4"	1	1"x22 GAUGE
11"-18"	12'-0"	2	12 GAUGE	1	1/4"	1	1"x22 GAUGE
		1	8 GAUGE	---	---	---	---
19"-24"	12'-0"	2	10 GAUGE	1	1/4"	1	1"x22 GAUGE
25"-36"	12'-0"	2	8 GAUGE	1	3/8"	1	1"x20 GAUGE
37"-50"	12'-0"	---	---	2	3/8"	2	1"x20 GAUGE
51"-60"	12'-0"	---	---	2	3/8"	2	1"x18 GAUGE
61"-84"	12'-0"	---	---	2	3/8"	2	1"x18 GAUGE

NOTES:
1. STRAPS ARE GALVANIZED STEEL; RODS ARE UNCOATED OR GALVANIZED STEEL; WIRE IS BLACK ANNEALED, BRIGHTBASIC OR GALVANIZED STEEL. ALL ARE ALTERNATIVES.
2. TABLE ALLOWS FOR CONVENTIONAL WALL THICKNESS AND JOINT SYSTEMS PLUS ONE LB/SF OF INSULATION WEIGHT. IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS.

ROUND DUCT SUPPORT
No Scale

6


CEILING
X CFM EXHAUST
SEAL ALL DIFFUSERS AND GRILLES WITH TWO LAYERS OF VISQUEEN DURING RENOVATION WORK
CONSTRUCTION DUST BARRIER PARTITION TO STRUCTURE ABOVE
Y-X CFM
RECIRC
EXISTING WALL
CONSTRUCTION AREA
ADJACENT SPACE
Y CFM
NEGATIVE AIR MACHINE
D/P MANOMETER TO MONITOR NEGATIVE PRESSURE
FLOOR

PROVIDE NEGATIVE AIR MACHINE TIED TO EXISTING EXHAUST DUCT WHERE ACCESS TO OUTSIDE IS NOT POSSIBLE. TO PREVENT OVERPRESSURATION OF THE EXISTING EXHAUST SYSTEM, MEASURE THE AIRFLOW CAPACITY AT THE LOCATION THE EXHAUST FROM THE NEGATIVE AIR MACHINE WILL BE CONNECTED. BALANCE EXHAUST (X CFM) TO THIS VALUE AND RECIRC THE BALANCE (Y-X CFM) OF THE AIR FLOW FROM THE NEGATIVE AIR MACHINE TO THE CONSTRUCTION AREA TO FILTER THE AIR OF CONSTRUCTION DUST. EXHAUST ADEQUATE AIRFLOW TO MAINTAIN CONSTRUCTION SPACE AT 0.03 IN NEGATIVE PRESSURE.

NEGATIVE AIR MACHINE
No Scale

3

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RANDALL PAULSON
architects
Roswell . Nashua

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Roswell Mill
85-A Mill Street, Suite 200
Roswell, Georgia 30075
770.650.7558
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25 APR 25	ISSUE FOR PERMIT	KC	MM

Revisions

Date
01/21/22

Project No.
2024509.00

Sheet Title
MECHANICAL DETAILS

Sheet No.
M-003

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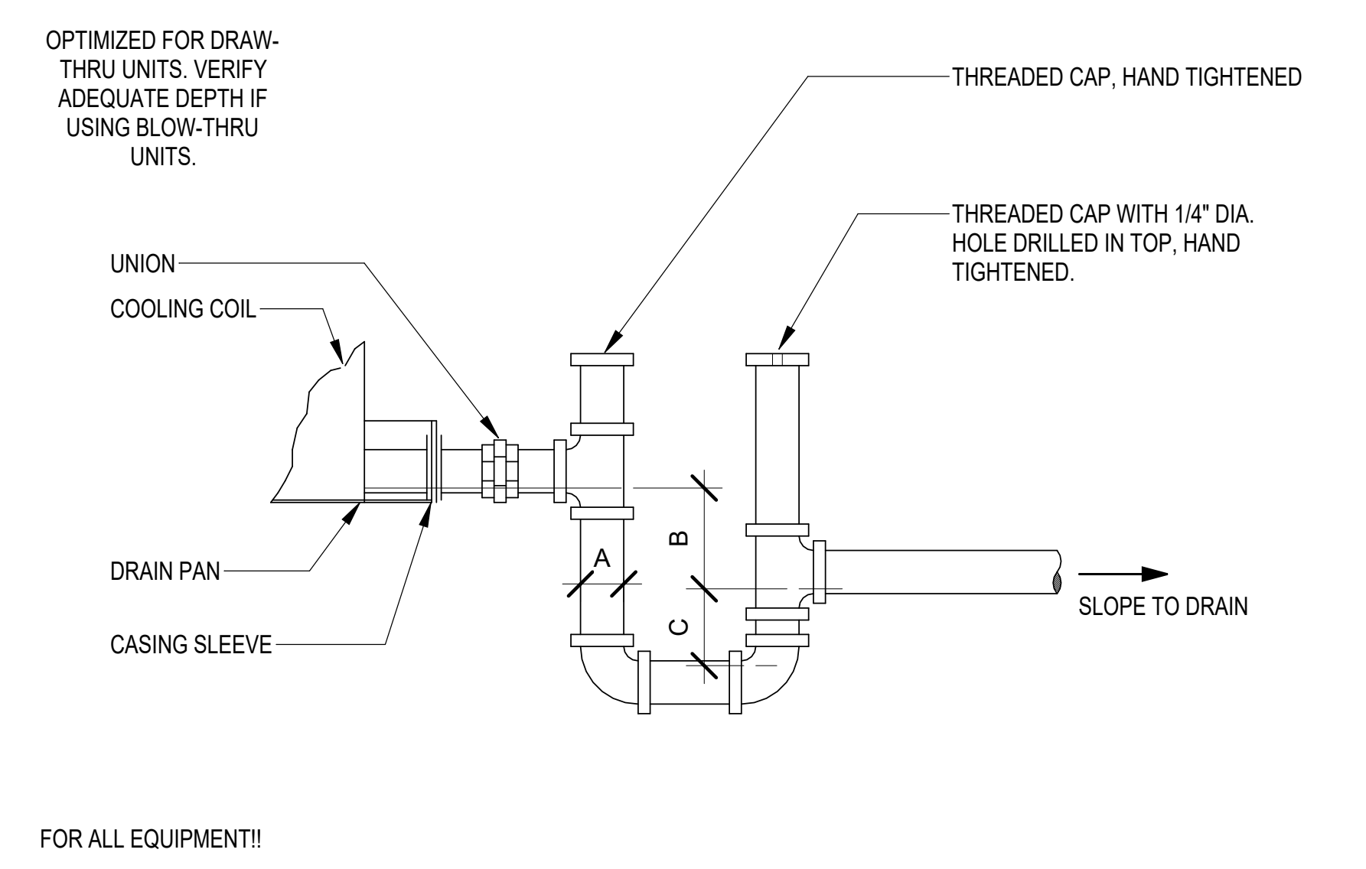

OPTIMIZED FOR DRAW-THRU UNITS. VERIFY ADEQUATE DEPTH IF USING BLOW-THRU UNITS.
THREADED CAP, HAND TIGHTENED
THREADED CAP WITH 1/4" DIA. HOLE DRILLED IN TOP, HAND TIGHTENED.
UNION
COOLING COIL
A
B
C
DRAIN PAN
CASING SLEEVE
SLOPE TO DRAIN
FOR ALL EQUIPMENT!!

CONDENSATE DRAIN PIPING DIMENSIONS:

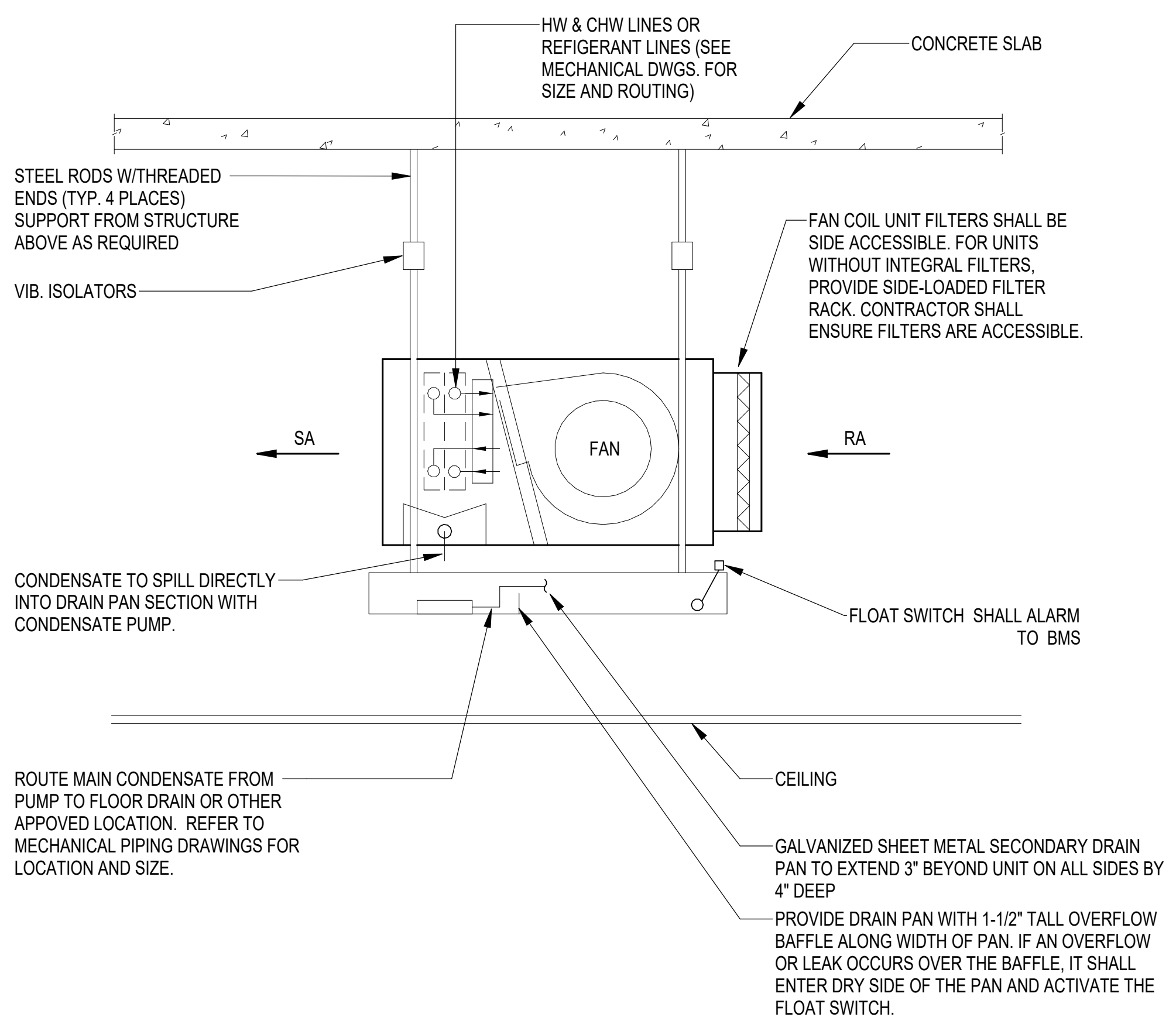
A = FULL SIZE OF UNIT DRAIN CONNECTION
B > 1-1/2" TIMES FAN SUCTION STATIC PRESSURE
C > FAN DISCHARGE STATIC PRESSURE PLUS 1/2" INCH

COORDINATE MOUNTING/CURB HEIGHT AS REQUIRED TO PROVIDE PROPER CONDENSATE DRAINAGE.

AHU CONDENSATE DRAIN TRAP

No Scale

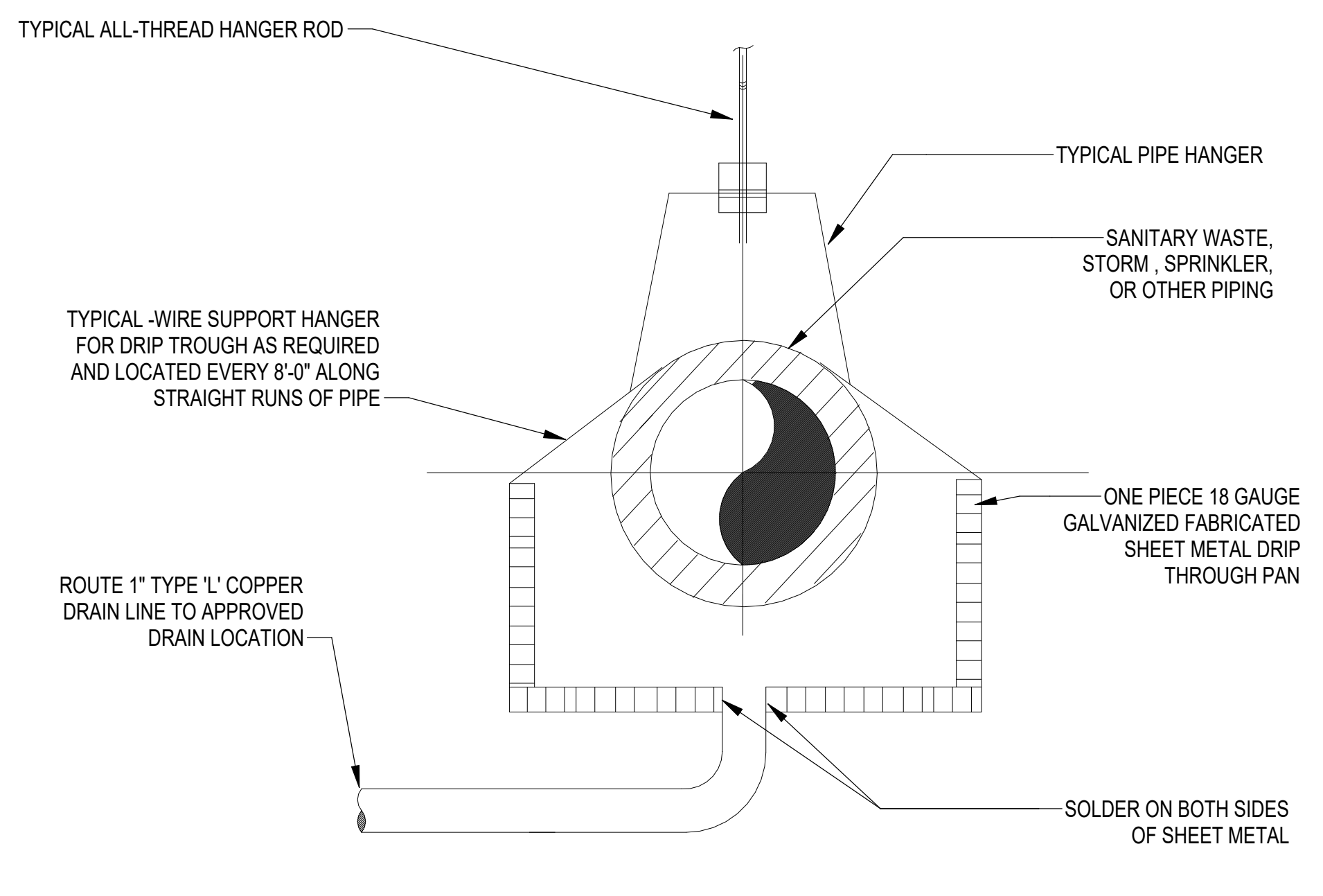
4


HW & CHW LINES OR REFIGERANT LINES (SEE MECHANICAL DWGS. FOR SIZE AND ROUTING)
CONCRETE SLAB
STEEL RODS W/THREADED ENDS (TYP. 4 PLACES) SUPPORT FROM STRUCTURE ABOVE AS REQUIRED
VIB. ISOLATORS
FAN COIL UNIT FILTERS SHALL BE SIDE ACCESSIBLE. FOR UNITS WITHOUT INTEGRAL FILTERS, PROVIDE SIDE-LOADED FILTER RACK. CONTRACTOR SHALL ENSURE FILTERS ARE ACCESSIBLE.
SA
FAN
RA
CONDENSATE TO SPILL DIRECTLY INTO DRAIN PAN SECTION WITH CONDENSATE PUMP.
FLOAT SWITCH SHALL ALARM TO BMS
ROUTE MAIN CONDENSATE FROM PUMP TO FLOOR DRAIN OR OTHER APPOVED LOCATION. REFER TO MECHANICAL PIPING DRAWINGS FOR LOCATION AND SIZE.
CEILING
GALVANIZED SHEET METAL SECONDARY DRAIN PAN TO EXTEND 3" BEYOND UNIT ON ALL SIDES BY 4" DEEP
PROVIDE DRAIN PAN WITH 1-1/2" TALL OVERFLOW BAFFLE ALONG WIDTH OF PAN. IF AN OVERFLOW OR LEAK OCCURS OVER THE BAFFLE, IT SHALL ENTER DRY SIDE OF THE PAN AND ACTIVATE THE FLOAT SWITCH.

DUCTLESS FAN COIL UNIT

No Scale

1


TYPICAL ALL-THREAD HANGER ROD
TYPICAL PIPE HANGER
SANITARY WASTE, STORM , SPRINKLER, OR OTHER PIPING
TYPICAL -WIRE SUPPORT HANGER FOR DRIP TROUGH AS REQUIRED AND LOCATED EVERY 8'-0" ALONG STRAIGHT RUNS OF PIPE
ONE PIECE 18 GAUGE GALVANIZED FABRICATED SHEET METAL DRIP THROUGH PAN
ROUTE 1" TYPE 'L' COPPER DRAIN LINE TO APPROVED DRAIN LOCATION
SOLDER ON BOTH SIDES OF SHEET METAL

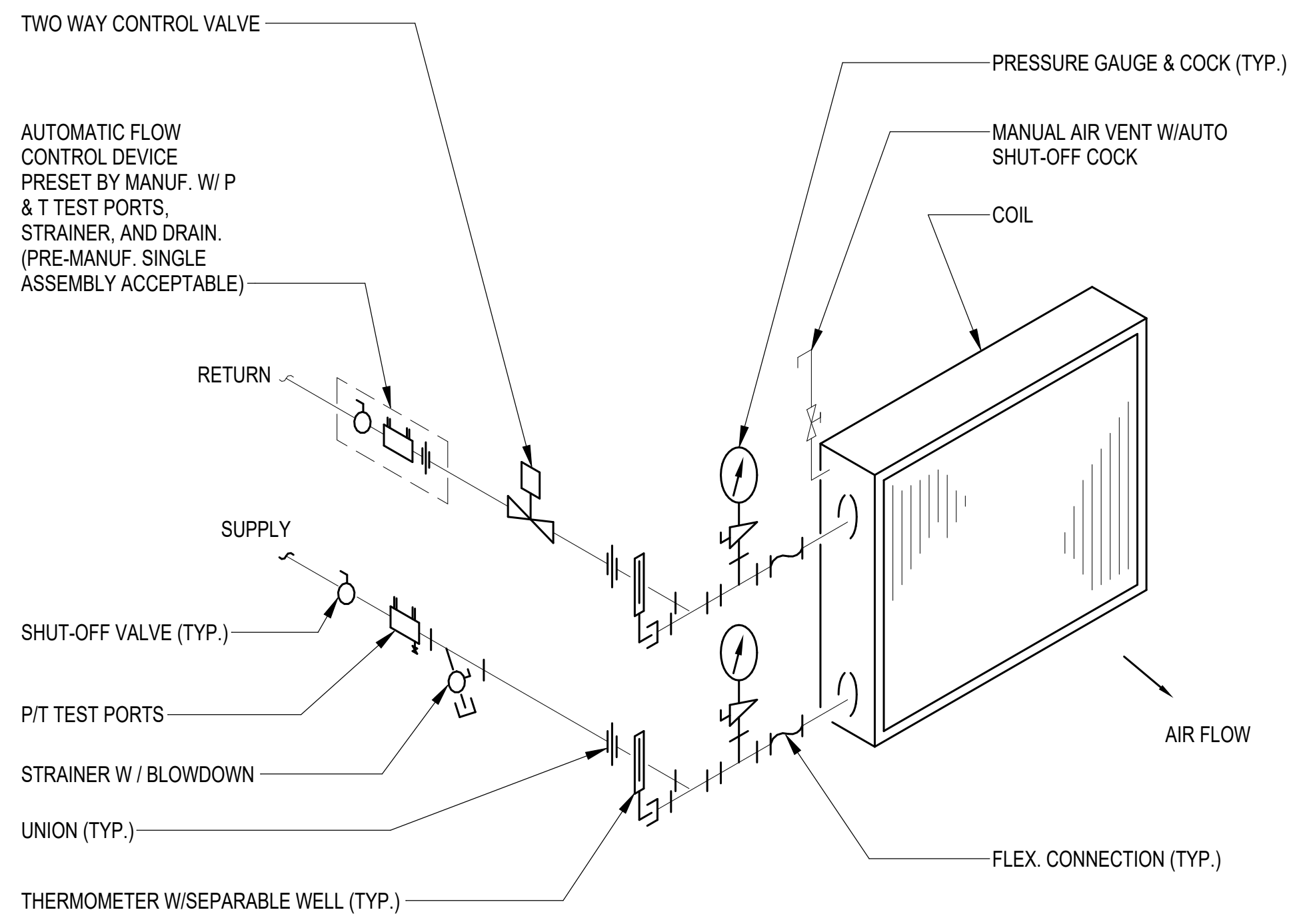
NOTE:

1. DRIP THROUGHS ARE REQUIRED FOR ALL OVERHEAD PIPING WHICH PASSES OVER EQUIPMENT.
2. A LITTLE GIANT PUMP OR SIMILAR MAY BE USED IN LIEUE OF GRAVITY DRAIN LINE.
3. PROVIDE LEAK DETECTION OR MONITORING OF THE PUMP AND ALARM TO THE BMS.

DRIP THROUGH PAN DETAIL

No Scale

5


TWO WAY CONTROL VALVE
PRESSURE GAUGE & COCK (TYP.)
AUTOMATIC FLOW CONTROL DEVICE PRESET BY MANUF. W/ P & T TEST PORTS, STRAINER, AND DRAIN. (PRE-MANUF. SINGLE ASSEMBLY ACCEPTABLE)
MANUAL AIR VENT W/AUTO SHUT-OFF COCK
COIL
RETURN
SUPPLY
SHUT-OFF VALVE (TYP.)
P/T TEST PORTS
STRAINER W / BLOWDOWN
UNION (TYP.)
THERMOMETER W/SEPARABLE WELL (TYP.)
AIR FLOW
FLEX. CONNECTION (TYP.)

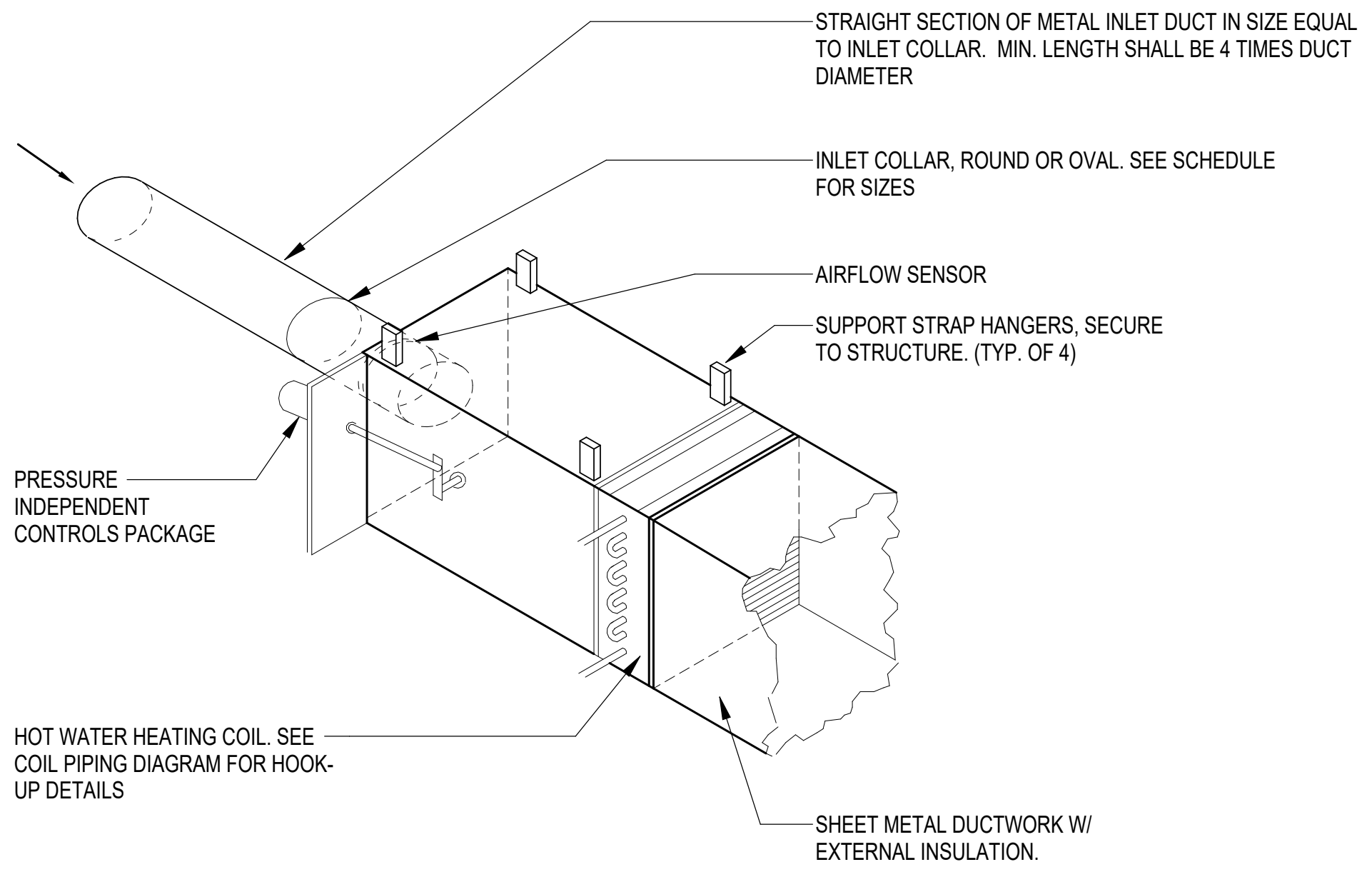
NOTES:

1. PROVIDE (4 x DIA.) OF STRAIGHT PIPE ON BOTH SIDES OF BALANCING VALVE.
2. ALL COMPONENTS FULL LINE SIZE UNLESS NOTED OTHERWISE.
3. LOCATE UNIONS TO ALLOW FOR COIL PULL.

2-WAY COIL PIPING DIAGRAM

No Scale

2


STRAIGHT SECTION OF METAL INLET DUCT IN SIZE EQUAL TO INLET COLLAR. MIN. LENGTH SHALL BE 4 TIMES DUCT DIAMETER
INLET COLLAR, ROUND OR OVAL. SEE SCHEDULE FOR SIZES
AIRFLOW SENSOR
SUPPORT STRAP HANGERS, SECURE TO STRUCTURE. (TYP. OF 4)
PRESSURE INDEPENDENT CONTROLS PACKAGE
HOT WATER HEATING COIL. SEE COIL PIPING DIAGRAM FOR HOOK-UP DETAILS
SHEET METAL DUCTWORK W/ EXTERNAL INSULATION.

VARIABLE VOLUME TERMINAL W/ HOT WATER HEAT

No Scale

3

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Atlanta, GA 30341
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PAULSON
architects
Roswell . Nashua

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No. PE42711
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Roswell Mill
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Revisions

Date
01/21/22

Project No.
2024509.00

Sheet Title
MECHANICAL DETAILS

Sheet No.
M-004

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CONTROLS SYMBOL LEGEND

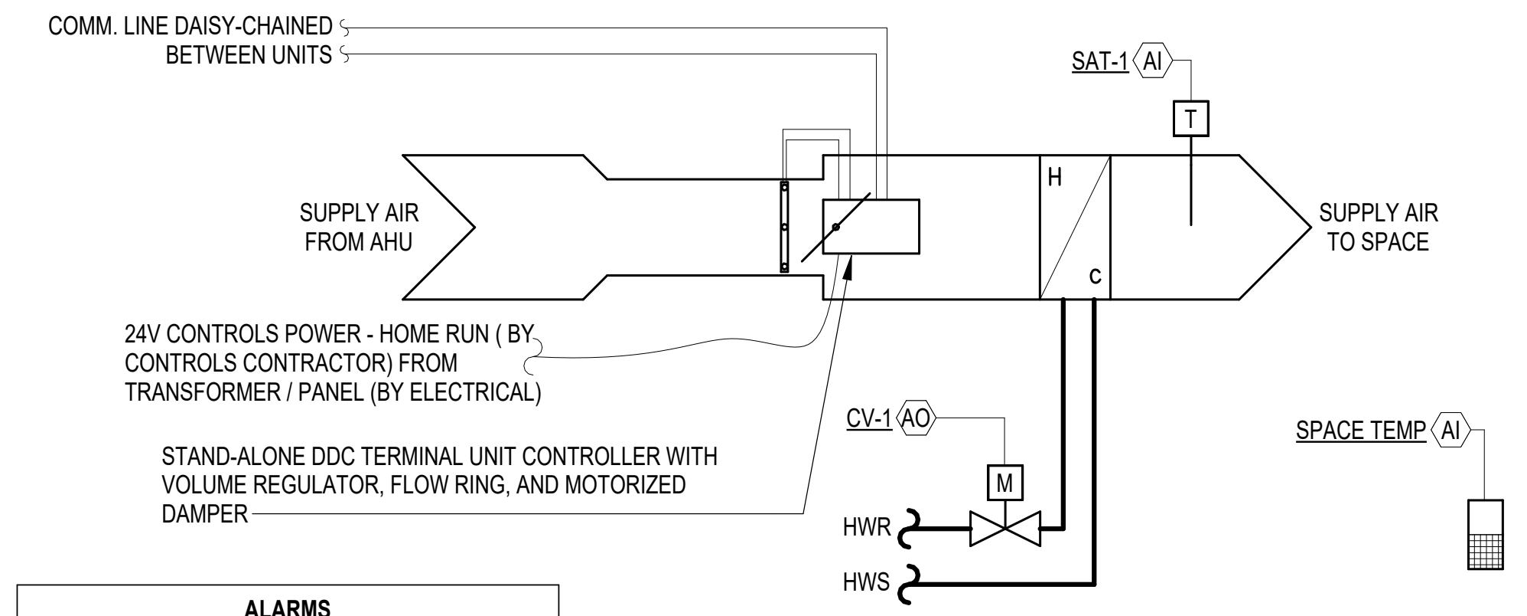
SYMBOL	DESCRIPTION
	PREFILTER
	FINAL FILTER
C c	CHILLED WATER COIL
D X	DX COIL
H c	HOT WATER COIL
E H	ELECTRIC HEAT COIL
	BELT-DRIVE FAN
	DIRECT DRIVE FAN
	FAN ARRAY (EXACT QTY NOTED)
M N.C. 24 V	MOTORIZED DAMPER
H	HUMIDIFIER DISPERSION TUBE
UV	UV LIGHT ARRAY
T	TEMPERATURE SENSOR (AVERAGING)
T	TEMPERATURE SENSOR (PROBE)
H	HUMIDITY SENSOR

SYMBOL	DESCRIPTION
C	CARBON DIOXIDE SENSOR
AF	AIRFLOW MEASURING STATION
	SMOKE DETECTOR
F 35°F	FREEZESTAT
P	PRESSURE TRANSDUCER
VFD	VARIABLE FREQUENCY DRIVE
CT	CURRENT TRANSDUCER
R	INTERLOCK RELAY
FL	FLOAT SWITCH
ES	END SWITCH (POSITION INDICATOR)
M	MOTOR OPERATED VALVE (2-WAY)
M	MOTOR OPERATED VALVE (3-WAY)
T	THERMOWELL TEMPERATURE SENSOR
FM	FLOW METER
PWHP-1	PUMP

ABBREVIATIONS

ADJ.	USER ADJUSTABLE SETPOINT	KWH	KILOWATT-HOURS
AI	ANALOG INPUT	NC	NORMALLY CLOSED
AO	ANALOG OUTPUT	NO	NORMALLY OPEN
BAS	BUILDING AUTOMATION SYSTEM	SP	SETPOINT
CFM	CUBIC FEET PER MINUTE	TAB	TEST AND BALANCE
DAT	DISCHARGE AIR TEMPERATURE	VFD	VARIABLE FREQUENCY DRIVE
DI	DIGITAL INPUT		
DO	DIGITAL OUTPUT		
DX	DIRECT EXPANSION		
FLA	FULL LOAD AMPS		
GPM	GALLONS PER MINUTE		
KW	KILOWATTS		

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT


COMM. LINE DAISY-CHAINED
BETWEEN UNITS
SAT-1 AI
T
SUPPLY AIR
FROM AHU
H
C
SUPPLY AIR
TO SPACE
24V CONTROLS POWER - HOME RUN (BY CONTROLS CONTRACTOR) FROM TRANSFORMER / PANEL (BY ELECTRICAL)
STAND-ALONE DDC TERMINAL UNIT CONTROLLER WITH VOLUME REGULATOR, FLOW RING, AND MOTORIZED DAMPER
CV-1 AO
M
HWR
HWS
SPACE TEMP AI

ALARMS	
ALARM TYPE	**SETPOINT**
HIGH SUPPLY AIRFLOW	>110% SP
LOW SUPPLY AIRFLOW	<90% SP
HIGH SPACE TEMPERATURE	SP + 3°F
LOW SPACE TEMPERATURE	SP - 3°F
HIGH SUPPLY AIR TEMPERATURE	>110% SP
LOW SUPPLY AIR TEMPERATURE	<90% SP

1. All SETPOINTS ADJ.
2. ALARM WHEN MEASURED VALUES EXCEED SETPOINTS FOR 10 MIN (ADJ).

SETPOINTS		
POINT NAME	**VALUE**	**NOTES**
COOLING SPACE TEMP	75°F	OCCUPANT ADJ.
HEATING SPACE TEMP	70°F	OCCUPANT ADJ.
HEATING AIRFLOW	-	REFER TO SCHEDULE
MAX AIRFLOW	-	REFER TO SCHEDULE
MIN AIRFLOW	-	REFER TO SCHEDULE
MAX SUPPLY AIR TEMP	85°F	ADJ.

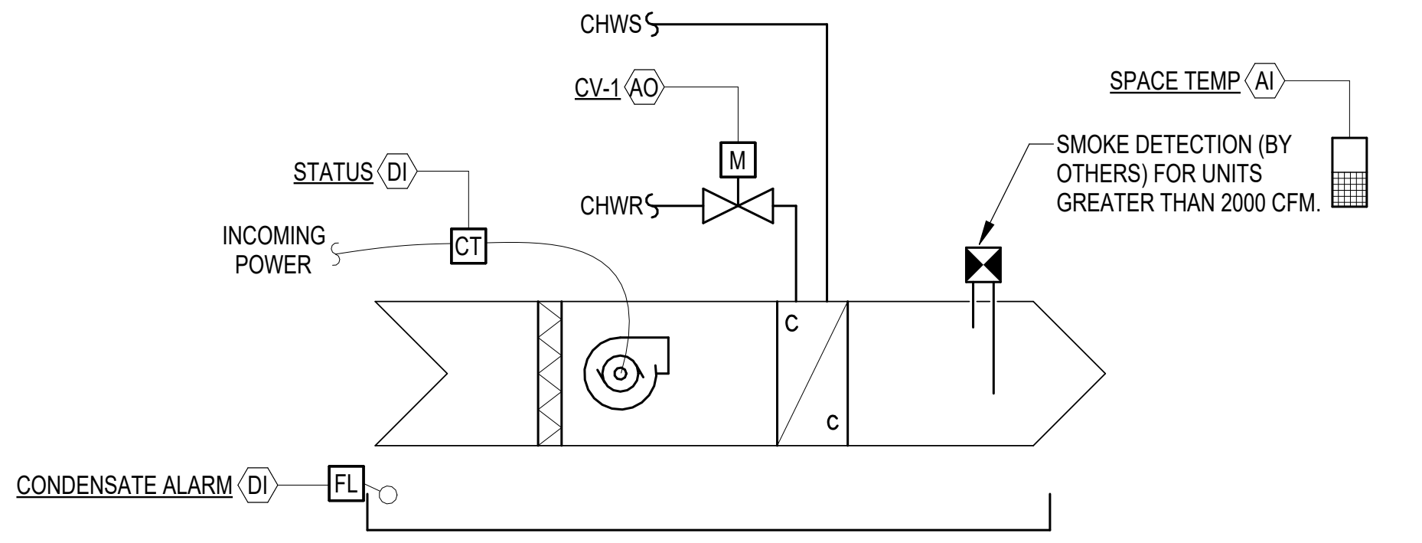
A. General
This is a pressure independant variable air volume control terminal unit. The unitl will control to maintain a SPACE TEMPERATURE setpoint.

B. Occupied Mode
VAV controller shall modulate damper position to maintain airflow between MAX AIRFLOW and MINIMUM AIRFLOW in order to maintain COOLING SPACE TEMP setpoint.

If the box is at minimum airflow and the space temperature falls below HEATING SPACE TEMP setpoint, the heating control valve (CV-1) shall increase the supply air temperature until the space is satisfied, or until reaching MAX SUPPLY AIR TEMP setpoint. If the space is still unsatisfied, airflow shall increase up to HEATING AIRFLOW setpoint, while maintaining discharge air temperature.

VAV BOX - HW
No Scale

1



ALARMS		
ALARM TYPE	**SETPOINT**	**NOTES**
FAN FAILURE / BROKEN BELT	-	-
HIGH CONDENSATE	-	MANUAL RESET
HIGH SPACE TEMP	>110% SP	-
ALARM WHEN MEASURED VALUES EXCEED SETPOINTS FOR 10 MIN (ADJ.)		

A. General
The unit is a CAV Chilled water fan coil. On a call to start, the supply fan will start, and cooling coil control will activate.

B. Supply Fan Control
The Supply Fan shall be set to run at a constant speed.

C. Cooling coil control
The cooling coil control valve will modulate to maintain the SPACE TEMPERATURE setpoint.

SETPOINTS		
POINT NAME	**VALUE**	**NOTES**
SPACE TEMPERATURE	75°F	ADJ.

MODES OF OPERATION	
MODE	**FAN STATE**
NORMAL (OCCUPIED)	ON
FIRE ALARM	OFF
CONDENSATE ALARM	OFF
SMOKE DETECTED	OFF

CHW FAN COIL
No Scale

2

1. NEW MECHANICAL EQUIPMENT SHALL TIE INTO EXISTING CENTRALIZED BAS SYSTEMS
2. DEVICE CONTROLLERS SHALL COMMUNICATE WITH CENTRAL BUILDING AUTOMATION SYSTEM (IF APPLICABLE) VIA STANDARD PROTOCOLS.
3. CONTROLS CONTRACTOR SHALL PROVIDE ALL CONTROLLERS, RELAYS, WIRING, AND OTHER DEVICES REQUIRED TO PROVIDE A FULLY FUNCTIONAL SYSTEM IN COMPLIANCE WITH THE DIAGRAMS, SEQUENCES AND SPECIFICATIONS INCLUDED IN THESE DOCUMENTS.
4. 120V CIRCUITS FOR CONTROLS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
5. 120V TO 24V STEP-DOWN TRANSFORMER SHALL BE PROVIDED BY CONTROLS CONTRACTOR.
6. ALL POINTS SHALL BE CAPABLE OF BEING TRENDED.
7. ALL POINTS SHALL BE REPRESENTED GRAPHICALLY.

RANDALL
PAULSON
architects
Roswell . Nashua

04/25/25
No. PE42711

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

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17 APR 25	95% REVIEW	KC	MM
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Revisions

Date 01/21/22
Project No. 2024509.00

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VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE - HOT WATER HEATER

				PRIMARY AIRFLOW		HEATING COIL											
							AIRSIDE					WATERSIDE					
MARK	MANUFACTURER	MODEL NO.	NECK SIZE	MAX	MIN	CAP	DESIGN FLOW	EAT(db)	LAT(db)	PD	ROWS	FLOW	EWT	LWT	NC	UNIT WEIGHT	REMARKS
VAV-1	DAIKIN APPLIED	MQTHI508	8	325 CFM	100 CFM	4347.0 Btu/h	330 CFM	55 °F	95 °F	0.04 in-wg	1	2 GPM	140 °F	134 °F	16	15.00 lbf	
VAV-2	DAIKIN APPLIED	MQTHI512	12	1475 CFM	600 CFM	17121.0 Btu/h	1475 CFM	55 °F	81 °F	0.11 in-wg	1	10 GPM	140 °F	137 °F	24	22.00 lbf	

FAN COIL UNIT SCHEDULE - CHILLED WATER

			AIR SIDE	FAN				COOLING COIL											ELECTRICAL				
			SUPPLY AIR	PRESS	MOTOR			CAP	AIRSIDE					WATERSIDE									
MARK	MANUFACTURER	MODEL NO.	FLOW	ESP	QTY	POWER	ECM	TOTAL	EAT(db)	EAT(wb)	LAT(db)	LAT(wb)	ROWS	FLOW (gpm)	EWT °F	LWT °F	PD ft H20	UNIT WEIGHT	FLA	MCA	MOCP	VOLTS / PH	REMARKS
FCU-1	DAIKIN APPLIED	FCHC208	690	0.25	2	1/4 hp	No	26509	80	67	55	54.6	4	4.4	44	56	10	153	3.5	4.4	15	115/1	

AIR DISTRIBUTION SCHEDULE

MARK	CFM	NECK SIZE	ACTUAL VELOCITY (FPM)	NC (ACTUAL)	FACE SIZE LENGTH	DESCRIPTION
A	50-115	6Ø	0 - 590	0		SUPPLY DIFFUSER
	116-240	8Ø				BASIS OF DESIGN: PRICE SPD
	241-435	10Ø	450 - 800	15 - 20	24x24	COLOR: WHITE
	436-625	12Ø	560 - 800	23		MATERIAL: ALUMINUM OPPOSED
	625-850	14Ø	590 - 800	25		BLADE DAMPERS: NO BACK PAN
	751-980	16Ø				SIZE: 18x18
						INSULATED BACK PAN
B	000-110	6x6				RETURN / EXHAUST GRILLE BASIS
	111-200	8x8				OF DESIGN: PRICE 80
	201-315	10x10				COLOR: WHITE
	316-450	12x12				MATERIAL: ALUMINUM OPPOSED
	451-615	14x14			24x24	BLADE DAMPERS: NO 1/2"x1/2"x1/2"
	616-800	16x16				GRID
	801-1015	18x18				
	1016-1250	20x20				
	1251-1515	22x22				
E	000-110	6Ø				SUPPLY DIFFUSER
	111-240	8Ø				BASIS OF DESIGN: JST
	241-380	10Ø			48x1.5	COLOR: WHITE
	381-550	12Ø				MATERIAL: ALUMINUM
	551-750	14Ø				BLADE DAMPERS: INCLUDE FACE OPERATED CABLE DAMPER
	751-980	16Ø				INSULATED PLENUM

# NEW WORK KEY NOTES :

1. NEW 2 TON CHILLED WATER FCU TO BE INSTALLED WITH DRAIN PAN. PAN SHALL BE INSTALLED WITH LEAK DETECTION SYSTEM. IF LEAK IS DETECTED, SYSTEM SHALL DIRECT CHWS & CHWR CONTROL VALVES TO BE CLOSED AND ALARM TO BMS. COORDINATE LOCATION WITH EXISTING DOMESTIC WATER PIPING.
2. NEW 4" DEEP, GALVANIZED STEEL DRAIN PAN TO BE INSTALLED BENEATH EXISTING FCU AND ALL WATER PIPING TO PROTECT EQUIPMENT BELOW. PAN TO BE SIZED TO SHIELD ALL EQUIPMENT BELOW. PROVIDE CONDENSATE PUMP AND LEAK DETECTION SYSTEM. IF LEAK IS DETECTED, THE SYSTEM SHALL ACTIVATE CONDENSATE PUMP AND ALARM BMS UNTIL LEVEL IS BELOW ACCEPTABLE LIMITS.
3. CONTRACTOR TO ENSURE THAT NEW CONNECTION IS MADE INTO THE TOP OF EXISTING CONDENSATE PIPE.
4. CONTRACTOR TO UTILIZE EXISTING HHWS & HHWR PIPING FOR VAV HEATING COIL CONNECTIONS. CONTRACTOR IS RESPONSIBLE FOR ALL TRANSITIONS AND CONNECTIONS REQUIRED FOR CONNECTION.
5. ENSURE RETURN IS BALANCED TO 255 CFM FOR PROPER POSITIVE PRESSURIZATION.
6. ENSURE RETURN IS BALANCED TO 1400 CFM FOR PROPER POSITIVE PRESSURIZATION.
7. LAMINAR FLOW DIFFUSER TO BE LOCATED ABOVE PATIENT. COORDINATE FINAL LOCATION WITH EQUIPMENT, EQUIPMENT SUPPORT STRUCTURE, AND LIGHTING.

MECHANICAL ICRA NOTES:

1. PROVIDE NEGATIVE AIR MACHINE. NEGATIVE AIR MACHINE SHALL BE AAF MODEL OR APPROVED EQUAL. MAINTAIN RENOVATION AREA UNDER NEGATIVE PRESSURE AT ALL TIMES. DISCHARGE FROM THE NEGATIVE AIR MACHINE SHALL BE DUCTED INTO THE EXISTING EXHAUST/RETURN SYSTEM OR THRU WALL, AS SHOWN ON PLANS, AFTER PROPER FILTRATION WITHIN THE MACHINE TO ENSURE THAT EXISTING DUCTWORK IS NOT CONTAMINATED WITH CONSTRUCTION DUST. PROVIDE NEW FINAL FILTER WITH EFFICIENCY OF 99.99% OR HIGHER FOR 1 MICRON PARTICLES.

2. PROVIDE PRESSURE GAUGE TO MONITOR THE PRESSURE RELATIONSHIP BETWEEN THE CONSTRUCTION AREA AND THE ADJACENT SPACES. LOCATE PRESSURE GAUGE AT ENTRANCE TO CONSTRUCTION AREA. ADJUST THE VOLUME OF THE NEGATIVE AIR MACHINE TO PROVIDE A NEGATIVE PRESSURE OF -0.03" W.G. WITHIN THE SPACE AS IT IS BEING MODIFIED. IT IS PERMISSIBLE TO MAINTAIN SUPPLY TO THE SPACE, BUT MAINTAIN THE SPACE UNDER NEGATIVE PRESSURIZATION. IT IS NOT PERMISSIBLE TO APPLY FILTER MEDIA OVER RETURN GRILLES, THEY MUST BE COMPELETLY SEALED. DECREASE THE RETURN CAPACITY IN ADJACENT SPACES TO OFFSET BETWEEN SUPPLY AND EXHAUST/RETURN IN THE RENOVATED AREA. DO NOT POSITIVELY PRESSURIZE EXISTING DUCTWORK.

3. MAINTAIN CONNECTION OF NEGATIVE AIR MACHINE UNTIL CONSTRUCTON IS COMPLETE.

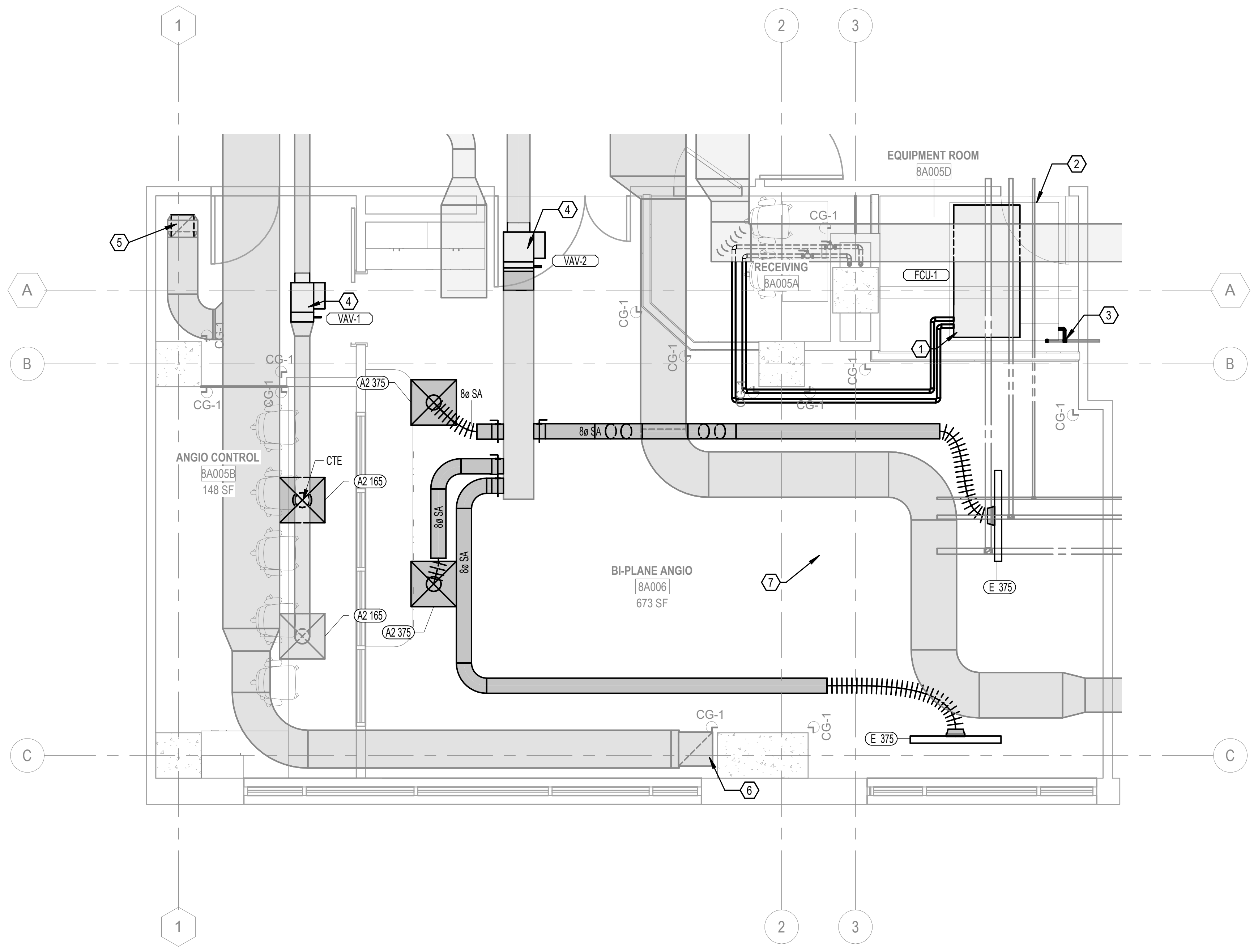
4. CONTRACTOR SHALL PROVIDE NECESSARY EGRESS WHEN ANY WORK IN CORRIDOR IS CONDUCTED DURING WORKING HOURS.

5. CONTRACTOR SHALL COMPLY WITH OWNER REQUIREMENTS FOR INFECTION CONTROL RISK ASSESSMENT (ICRA) REQUIREMENTS.

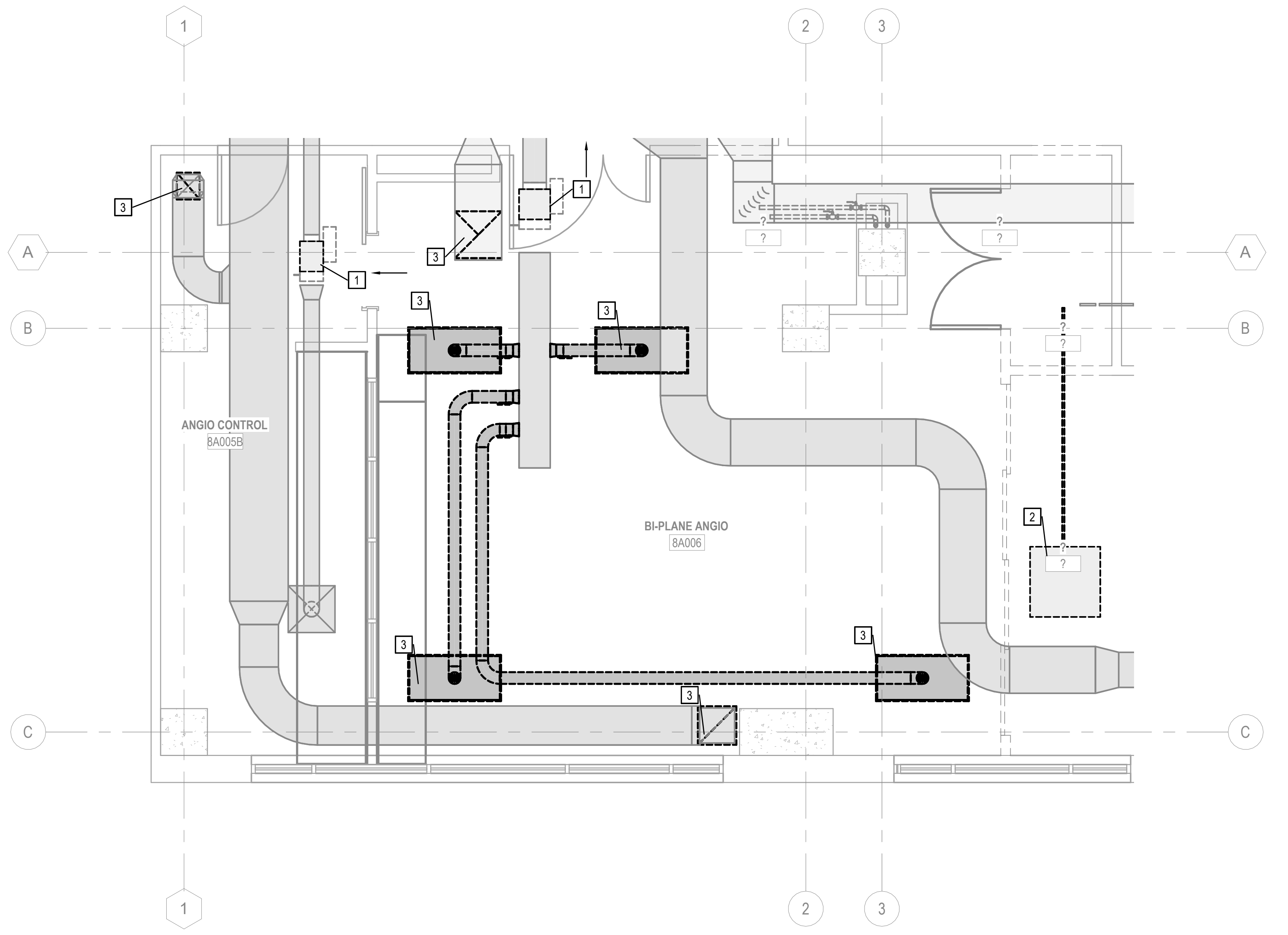
6. REFER TO ARCHITECTURAL PLAN FOR TEMPORARY PARTITIONS. TEMPORARY PARTITIONS ARE FOR ICRA REQUIREMENTS, ADDITIONAL TEMPORARY PARTITIONS MAY BE NECESSARY TO ACCOMMODATE PHASING.

# DEMOLITION KEY NOTES :

1. DEMOLISH VAV & HOT WATER ACCESSORIES.
2. DEMOLISH CHILLED WATER FCU AND PIPING ACCESSORIES.
3. DEMOLISH AIR DISTRIBUTION & FLEX DUCT.



2
M-101
MECHANICAL NEW WORK PLAN
1/4" = 1'-0"



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M-101
MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"

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architects
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INTERIOR RENOVATION

at

MARCUS STROKE AND NEUROSCIENCE ANGIO 1 REPLACEMENT

for

Grady

GRADY MEMORIAL HOSPITAL
SUITE 8-A
80 JESSE HILL, JUNIOR DRIVE
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ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	KC	MM
25 APR 25	ISSUE FOR PERMIT	KC	MM

Revisions

Date: 02/03/25
Project No.: 2024509.00

Sheet Title
MECHANICAL PLANS

Sheet No.
M-101

■ Released for Construction
☐ Not Released for Construction

ELECTRICAL SYMBOL LEGEND

BASIC MATERIALS

DEVICE ABBREVIATION TAGS:

SYMBOL	DESCRIPTION
6C	POKE-THRU WITH 6" CORE DRILL
8C	POKE-THRU WITH 8" CORE DRILL
4G	FOUR-GANG FLOOR BOX
6G	SIX-GANG FLOOR BOX
8G	EIGHT-GANG FLOOR BOX
AV	DOUBLE DUPLEX RECEPTACLE WITH DEDICATED CIRCUIT FOR AV RACK OR CART
C	RECEPTACLE CONTROLLED PER ASHRAE 90.1 (2010); PROVIDE POWER PACK FOR RECEPTACLE CIRCUIT, TO BE CONTROLLED THROUGH LOCAL ROOM OCCUPANCY SENSOR(S); PROVIDE DEVICE WITH BLUE DOT OR UNIVERSAL POWER SYMBOL
ETR	EXISTING TO REMAIN
H	HOSPITAL GRADE
IG	ISOLATED GROUND (ORANGE DEVICE)
RL	RELOCATED
TR	TAMPER RESISTANT
TV	RECEPTACLE MOUNTED ADJACENT TO TV OUTLET, COORDINATE HEIGHT W/ ARCHITECT
U	DUPLEX RECEPTACLE WITH (2) USB PORTS
WP	WEATHERPROOF
S_a	SINGLE POLE SWITCH (SUBSCRIPT INDICATES ITEM CONTROLLED)
S_3	THREE-WAY SWITCH
S_4	FOUR-WAY SWITCH
S_K	SINGLE POLE KEY SWITCH
S_T	DIGITAL TIMER SWITCH W/ 5 MIN. WARNING FLASH
S_{OSab}	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH, DUAL RELAY
S_{OS}	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH
S_{VS}	WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR SWITCH
$S_{D,OS}$	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH
S_{LV}	LOW VOLTAGE SWITCH
S_{LVO}	LOW VOLTAGE OVERRIDE SWITCH
S_{LVD}	LOW VOLTAGE OVERRIDE SWITCH WITH DIMMING
S_F	FAN SWITCH
S_M	MOTOR RATED SWITCH
S_D	DIMMER SWITCH, LINE VOLTAGE
(OS)	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
(OS)	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
(DL)	DAYLIGHT SENSOR CEILING MOUNTED
(DL)	DAYLIGHT SENSOR WALL MOUNTED
(VS)	VACANCY SENSOR CEILING MOUNTED
(VS)	VACANCY SENSOR WALL MOUNTED
(PC)	PHOTOCELL, MOUNTED ON ROOF FACING NORTH
J	NOTE: DIAGONAL MARKS INDICATED ON ANY DEVICE REPRESENTS DEVICE CONNECTED TO EMERGENCY CIRCUIT (RED DEVICE FOR RECEPTACLE); TYPICAL FOR ANY DEVICE IN LEGEND
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
	TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVER MOUNTED ABOVE COUNTER
	DUPLEX RECEPTACLE; EACH RECEPTACLE ON SEPARATE CIRCUIT (PROVIDE BREAKER WITH 2-POLE COMMON TRIP HANDLE)
	SPLIT-WIRED CONTROLLED DUPLEX RECEPTACLE
	GFCI RECEPTACLE; "WP" INDICATES CAST METAL "IN-USE" WEATHERPROOF COVER, WEATHER-RESISTANT LISTED
	TWO GFCI DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE
	GFCI RECEPTACLE MOUNTED ABOVE COUNTER
	DUPLEX RECEPTACLE, CEILING MOUNTED
	TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE, CEILING MOUNTED
	PEDESTAL MOUNTED DUPLEX RECEPTACLE
	FLOOR BOX WITH DUPLEX RECEPTACLE WITH APPROPRIATE FLANGE
	FLOOR BOX, TWO DUPLEX RECEPTACLES (QUAD) WITH APPROPRIATE FLANGE
	MULTI-SERVICE FLOOR BOX WITH DUPLEX RECEPTACLE, VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)
	MULTI-SERVICE FLOOR BOX WITH TWO DUPLEX RECEPTACLES (QUAD) , VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)
	MULTI-SERVICE POWER & DATA FLOOR BOX WITH FURNITURE FEED CONNECTION (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)
	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AS NOTED
(J)	JUNCTION BOX WALL MOUNTED
(J)	JUNCTION BOX MOUNTED IN OR ABOVE CEILING OR IN STRUCTURE
(J)	WALL MOUNTED FURNITURE FEED POWER CONNECTION
[PP]	POWER POLE WITH POWER & DATA FURNITURE FEED POWER CONNECTIONS
[PP]	POWER POLE WITH POWER & DATA OUTLETS
(P)	MULTI-SERVICE POKE-THRU WITH TWO INTEGRAL DUPLEX RECEPTACLES AND VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS), OR FURNITURE FEED CONNECTION; REFER TO POKE-THRU DETAILS
	MULTI-SERVICE RACEWAY WITH 5-20R RECEPTACLES, 18" O.C. UNLESS OTHERWISE NOTED
(C)	CLOCK RECEPTACLE, WALL MOUNTED
GND	GROUND BUS BAR, COPPER
SPD	SURGE PROTECTIVE DEVICE
ST	SHUNT-TRIP PUSHBUTTON; SEMI-FLUSH WALL MOUNTED UNLESS OTHERWISE NOTED; NEMA 3R FOR EXTERIOR LOCATIONS
EPO	EMERGENCY POWER OFF SHUNT-TRIP PUSHBUTTON, RED MUSHROOM HEAD, CLEAR LEXAN PROTECTIVE COVER
	OVERHEAD DOOR PUSHBUTTON CONTROL STATION
	PUSHBUTTON STATION
	MOTOR CONNECTION
(MD)	MOTORIZED DAMPER CONNECTION
[VFD]	VARIABLE FREQUENCY DRIVE
[DDC]	DIRECT DIGITAL CONTROL PANEL
[BAS]	BUILDING AUTOMATION SYSTEM CONTROL PANEL
[LCP]	LIGHTING CONTROL PANEL

SYMBOL	DESCRIPTION
MH	MANHOLE
PB	PULLBOX
HH	HANDHOLE
T	TRANSFORMER
ATS	AUTOMATIC TRANSFER SWITCH
30AR/NF 3R	NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED NON-FUSED DISCONNECT SWITCH, RATING AS NOTED NF = NON-FUSED AR = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE
30AR/20AF 3R	NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED FUSED DISCONNECT AF = AMPERE RATING OF FUSE AR = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE
MCP AMPERE RATING 30/3 3R 0	# OF POLES NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED COMBINATION MAGNETIC MOTOR STARTER, SIZE AS NOTED, 3-POLE UNLESS OTHERWISE NOTED 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE NEMA STARTER SIZE
	SWITCHBOARD/ SWITCHGEAR/ DISTRIBUTION PANEL
	BRANCH CIRCUIT PANELBOARD, OVER 240 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, OVER 240 VOLTS, FLUSH MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, FLUSH MOUNTED
	CONDUIT CONCEALED ABOVE CEILING OR IN WAL
	CONDUIT EXPOSED
	CONDUIT CONCEALED IN SLAB, UNDERGROUND OR UNDER FLOOR
	CONDUIT HOMERUN TO ELECTRICAL PANEL
UP	CONDUIT TURNING UP
DN	CONDUIT TURNING DOWN
	CONDUIT STUBBED OUT OR UP
	CONDUIT CONTINUED
	FLEXIBLE CONDUIT
■	CONDUIT SEAL-OFF FITTING
	GROUND OR GROUND ROD AS NOTED
	EXISTING TO BE REMOVED (HEAVY, DASHED LINE)
	EXISTING TO REMAIN (LIGHT, SOLID LINE)
	NEW (HEAVY, SOLID LINE)

LIGHTING

SYMBOL	DESCRIPTION
	STRIP FIXTURE
A 2 a ZX-X	FIXTURE TYPE FIXTURE, RECESSED, PENDANT OR SURFACE CEILING LOWER CASE LETTER INDICATES CONTROLLING SWITCH CIRCUIT NUMBER LIGHTING CONTROL ZONE NUMBER
	FIXTURE RECESSED, PENDANT OR SURFACE CEILING
	DIAGONAL HALF SHADING INDICATE FIXTURE CONNECTED TO CRITICAL CIRCUIT OR PROVIDED WITH INTEGRAL EMERGENCY BATTERY PACK; "E" AFTER FIXTURE TYPE TAG INDICATES INTEGRAL BATTERY PACK UNLESS OTHERWISE NOTED ON LIGHT FIXTURE SCHEDULE (TYPICAL FOR ALL LIGHT FIXTURE SYMBOLS) FULL SHADING INDICATE FIXTURE CONNECTED TO LIFE SAFETY CIRCUIT.
	FIXTURE, WALL MOUNTED
	RECESSED, PENDANT OR SURFACE CEILING
	WALL MOUNTED
	CEILING WALLWASHER, ACCENT LIGHT, LANDSCAPING TREE ACCENT LIGHT, FACADE LIGHT
	TRACK WITH TRACK LIGHT FIXTURE (TRIANGLES INDICATE QUANTITY OF TRACK HEADS)
	EMERGENCY TWIN-HEAD LIGHT WITH INTEGRAL BATTERY PACK, WALL MOUNTED
	LINEAR RECESSED, PENDANT OR SURFACE CEILING
	EXTERIOR POLE-MOUNTED AREA LIGHT FIXTURE, ARMS AS INDICATED ON DRAWINGS
	EXTERIOR PEDESTRIAN SIDEWALK BOLLARD OR POST-TOP LIGHT FIXTURE
	EXIT LIGHT, CEILING OR PENDANT MOUNTED; DIRECTIONAL ARROWS AS INDICATED; SHADED QUADRANT INDICATES FACE(S) OF FIXTURE
	EXIT LIGHT, WALL MOUNTED

FIRE ALARM / DETECTION SYSTEM

SYMBOL NFPA	SYMBOL LEGACY	DESCRIPTION
[F]	[F]	MANUAL PULL STATION
(S)		CEILING SMOKE DETECTOR, PHOTOELECTRIC TYPE UNLESS OTHERWISE NOTED E = ELEVATOR WITH RECALL CONTACTS I = IONIZATION
(S)		DUCT SMOKE DETECTOR R = RETURN S = SUPPLY
$(S)_{BR}$	$[B]_R$	BEAM SMOKE DETECTOR BR OR R = BEAM DETECTOR RECEIVER BT OR T = BEAM DETECTOR TRANSMITTER
(H)	(H)	HEAT DETECTOR 135°F FIXED TEMPERATURE, UNLESS OTHERWISE NOTED, CEILING MOUNTED
[R]	[R]	SUPERVISED ADDRESSABLE FIRE ALARM CONTROL RELAY
	(RT)	DUCT SMOKE DETECTOR REMOTE TEST SWITCH WITH INDICATING LAMP, WALL MOUNTED AT 48" AFF, UNLESS OTHERWISE NOTED
XXCD	[F] XXCD	COMBINATION HORN/STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED CD = CANDELA RATING
F H	[H]	HORN ONLY, WALL MOUNTED
XXCD	(F) XXCD	STROBE, CEILING MOUNTED, 75 CD UNLESS OTHERWISE NOTED CD = CANDELA RATING
C	(FS) XXCD	COMBINATION HORN/STROBE, CEILING MOUNTED, 75CD UNLESS OTHERWISE NOTED CD = CANDELA RATING
S C	(SS)	SPEAKER ONLY, CEILING MOUNTED
S	(SS)	SPEAKER ONLY, WALL MOUNTED
	(F)	STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED
	[P]	FIREMAN'S PHONE JACK
VS	[TS]	SPRINKLER TAMPER SWITCH CONNECTION
WS	[FS]	SPRINKLER WATERFLOW SWITCH CONNECTION
PS	[PS]	PRESSURE SWITCH CONNECTION
DH		ELECTROMAGNETIC DOOR HOLD OPEN DEVICE
FACP	[FACP]	FIRE ALARM CONTROL PANEL
FATC	[FATC]	FIRE ALARM TERMINAL CABINET
FAA	[FAA]	FIRE ALARM ANNUNCIATOR PANEL - FLUSH MOUNTED
EVAC	[EVAC]	VOICE EVACUATION PANEL
MNS	[MNS]	MASS NOTIFICATION SYSTEM PANEL
DACT	[DACT]	MASS NOTIFICATION SYSTEM PANEL

AUDIO/VIDEO RACEWAY SYSTEM

SYMBOL	DESCRIPTION
[TV]	TELEVISION SIGNAL WALL OUTLET, MOUNTED ADJACENT TO DUPLEX RECEPTACLE IDENTIFIED WITH "TV" ADJACENT TO DEVICE; REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT
$(S)_X$	CEILING MOUNTED SPEAKER X = ZONE TO BE CONTROLLED
(S)	WALL MOUNTED SPEAKER
[VC]	WALL-MOUNTED VOLUME CONTROL; PROVIDE 3/4" C. STUBBED UP ABOVE CEILING AND SINGLE STANDARD ELECTRICAL BOX AT 48" AFF
$[MC]_X$	WALL-MOUNTED MASTER VOLUME CONTROL; PROVIDE 3/4" C. STUBBED UP ABOVE CEILING AND SINGLE STANDARD ELECTRICAL BOX AT 48" AFF X = ZONE TO BE CONTROLLED
[RCA]	WALL-MOUNTED DUAL RCA JACKS FOR MP3 CONNECTION
AV	AUDIO/VISUAL CABINET OR RACK

VOICE AND DATA RACEWAY SYSTEM

SYMBOL	DESCRIPTION
	SINGLE-GANG 2-1/8"D ELECTRICAL BOX WITH BLANK COVER FOR VOICE/DATA OUTLET WITH 1" CONDUIT STUBBED UP AND INTO NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED: PROVIDE WITH NYLON PULL STRING & SMOOTH BUSHING C = ABOVE COUNTER
W	SINGLE-GANG 2-1/8"D ELECTRICAL BOX WITH BLANK COVER FOR TELEPHONE WALL OUTLET WITH 1" CONDUIT STUBBED UP AND INTO NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED: PROVIDE WITH NYLON PULL STRING & SMOOTH BUSHING W = WALL MOUNTED AT 52" AFF FOR HOUSE PHONE W, ADA = WALL MOUNTED AT 44" AFF FOR ADA ACCESSIBLE PAY PHONE ELV = WALL MOUNTED @ 52" AFF FOR TELEPHONE IN ELEVATOR MACHINE ROOM
WAP	WIRELESS ACCESS POINT OUTLET, CEILING MOUNTED; ACTUAL QUANTITY AND LOCATIONS SHALL BE BASED ON SIGNAL SURVEY BY OWNER'S WLAN VENDOR
	MULTI-SERVICE FLOOR BOX WITH RECEPTACLE AND TECHNOLOGY DEVICES (REFER TO OWNER'S VENDOR DRAWINGS FOR DEVICES); PROVIDE RACEWAY(S) AS INDICATED ON FLOOR PLANS
	MULTI-SERVICE FLOOR BOX WITH FURNITURE FEED CONNECTION; PROVIDE RACEWAY(S) AS INDICATED ON FLOOR PLANS
	2-GANG 2-1/8"D ELECTRICAL BOX WITH BLANK COVER FOR WALL MOUNTED FURNITURE FEED DATA CONNECTION; PROVIDE RACEWAY(S) AS INDICATED ON FLOOR PLANS
(P)	MULTI-SERVICE POKE-THRU WITH RECEPTACLES AND TECHNOLOGY DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS), OR FURNITURE FEED CONNECTION; REFER TO POKE-THRU DETAILS AND FLOOR PLANS FOR RACEWAY INFORMATION
[PP]	POWER POLE WITH POWER & DATA FURNITURE FEED POWER CONNECTIONS (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS); REFER TO FLOOR PLANS FOR RACEWAY INFORMATION
	3/4"THICK X 8' HIGH A/C PLYWOOD BACKBOARD MOUNTED 6" AFF FROM BOTTOM, PAINTED WITH GRAY FIRE-RETARDANT PAINT, WIDTH AS INDICATED ON FLOOR PLAN
	CABLE TRAY FOR HORIZONTAL LOW VOLTAGE CABLE, 12"W X 4" HIGH UNLESS OTHERWISE NOTED; LADDER TYPE IN IDF/MDF/IT ROOMS, BASKET/MESH TYPE IN OTHER AREAS, UNLESS OTHERWISE NOTED
	2-POST DATA RACK
	4-POST DATA RACK
	WALL MOUNTED DATA RACK

NURSE CALL SYSTEMS

SYMBOL	DESCRIPTION
N	SINGLE PATIENT STATION
N_2	DUAL PATIENT STATION
D	DUTY STATION
S	STAFF STATION
SE	STAFF EMERGENCY STATION
SA	STAFF EMERGENCY ANNUNCIATOR
E	EMERGENCY STATION
T	TOILET EMERGENCY STATION
SH	SHOWER EMERGENCY STATION
CB	CODE BLUE EMERGENCY STATION
P	DUAL STAFF PRESENCE INDICATOR STATION
C	CORRIDOR DOME LIGHT WALL MOUNTED
Z	CORRIDOR ZONE LIGHT
CBAP	CODE BLUE ANNUNCIATOR PANEL WALL MOUNTED
NCEC	NURSE CALL EQUIPMENT CABINET
NCMS	NURSE CALL MASTER STATION
N	NURSE CALL SYSTEM CONDUIT AND WIRING

TELEPHONE/COMPUTER RACEWAY SYSTEM

SYMBOL	DESCRIPTION
	VOICE/DATA OUTLET BACK BOX C = ABOVE THE COUNTER W = WALL MOUNTED
	TELEPHONE OUTLET FLOOR MOUNTED
	TELEPHONE OUTLET CEILING MOUNTED
	TELEPHONE OUTLET PEDESTAL MOUNTED
TTB	TELEPHONE/COMPUTER TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
CTC	COMPUTER TERMINAL CABINET
T	TELEPHONE SYSTEM RACEWAY
CM	COMPUTER SYSTEM RACEWAY

TELEVISION RACEWAY DISTRIBUTION SYSTEM

SYMBOL	DESCRIPTION
[TV]	TELEVISION OUTLET FOR ANTENNA
[TV]	TELEVISION SIGNAL WALL OUTLET
[TVC]	TWO GANG BOX RECEPTACLE/ CONTROL/ ANTENNA
TV	TV DISTRIBUTION SYSTEM RACEWAY

PAGING SYSTEM & BACKGROUND MUSIC

SYMBOL	DESCRIPTION
(S)	LOUDSPEAKER/ TRANSFORMER/ BAFFLE/ SUPPORT TRUSS. (CEILING MOUNTED) W = WALL MOUNTED
PAEC	PAGING SYSTEM EQUIPMENT CABINET
PATC	PAGING SYSTEM TERMINAL CABINET
P	PAGING SYSTEM CONDUIT AND WIRING
[VC]	VOLUME CONTROL

ABBREVIATIONS

A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
ABV CLG	ABOVE CEILING
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASA	AMERICAN STANDARDS ASSOCIATION
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GUAGE
BC	BARE COPPER
BIL	BASIC IMPULSE LEVEL
BAS	BUILDING AUTOMATION SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM
BRKR OR BKR	BREAKER
C	CONDUIT OR RACEWAY
CAB	CABINET
CKT	CIRCUIT
CB	CIRCUIT BREAKER
CBM	CERTIFIED BALLAST MANUFACTURERS
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLEC	CLOCK EQUIPMENT CABINET
CLG	CEILING
CO	CONDUIT OR RACEWAY ONLY
COAX	COAXIAL CABLE
COND	CONDUCTOR
CONN	CONNECTION
CPU	CENTRAL PROCESSING UNIT
CRT	CATHODE RAY TERMINAL (VIDEO DISPLAY TERMINAL)
CT	CURRENT TRANSFORMER
CU	COPPER
CW	COLD WATER
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DF	DEMAND FACTOR
DISC	DISCONNECT
DISC SW	DISCONNECT SWITCH
DO	DRAW OUT
DN	DOWN
DPST	DOUBLE POLE SINGLE THROW
EDH	ELECTRIC DUCT HEATER
EMT	ELECTRIC METALLIC TUBING
EO	ELECTRICALLY OPERATED
EOL	END OF LINE
EOR	ENGINEER OF RECORD
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FATC	FIRE ALARM TERMINAL CABINET
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPERES
FM	FACTORY MUTUAL
FPU	FAN POWERED UNIT
FT	FEET
GF	GROUND FAULT
GFA	GROUND FAULT ALARM
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFR	GROUND FAULT RELAY
GND, G	GROUND
HP	HORSEPOWER
HOA	HAND-OFF-AUTOMATIC
HORIZ	HORIZONTAL

ABBREVIATIONS (CONT.)

IBC	INTERNATIONAL BUILDING CODE
IC	INTERCOM
ICU	INTENSIVE CARE UNIT
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IES	ILLUMINATING ENGINEERING SOCIETY
IMC	INTERMEDIATE METAL CONDUIT
IN	INCHES
IPCEA	INSULATED POWER CABLE ENGINEERS ASSOCIATION
IT	INSTANTANEOUS TRIP
JB OR J-BOX	JUNCTION BOX
KCMIL	ONE THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOURS
LBS	POUNDS
LED	LIGHT EMITTING DIODE
LP	LIGHTNING PROTECTION
LT	LIGHT
LTG	LIGHTING
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND
LSIA	LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN SERVICE DISTRIBUTION PANEL
MIC	MICROPHONE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SERVICE SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MTS	MANUAL TRANSFER SWITCH
MUX	MULTIPLEX (TRANSPONDER) PANEL
MVA	MEGA VOLT AMPS
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NF	NON-FUSED
NL	NON-LINEAR
NO	NORMALLY OPEN OR NUMBER
OL	OVERLOAD
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
P	POLE
PB	PULLBOX
PF	POWER FACTOR
PIV	POST INDICATOR VALVE
PNL	PANEL
PR	PAIR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYLCHLORIDE
PWR	POWER
REC, RECEPT	RECEPTACLE
REF	REFRIGERATOR
RGS, GRC	RIGID GALVANIZED STEEL CONDUIT
RLA	RUNNING LOAD AMPERES
RMS	ROOT-MEAN-SQUARE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SCA	SHORT CIRCUIT AMPERES
SD	SMOKE DETECTOR
SEC	SECONDARY
S/N	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SPKR	SPEAKER
SPST	SINGLE POLE SINGLE THROW
SS	STAINLESS STEEL
SST	SOLID STATE TRIP
STD	SHORT TIME TRIP
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TVEC	TELEVISION EQUIPMENT CABINET
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UL	UNDERWRITERS LABORATORIES
UTIL	UTILITY
V	VOLT
VA	VOLTAMPERE
VAR	VOLT AMPERE REACTIVE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WP	WEATHER PROOF
XFMR	TRANSFORMER
XFR	TRANSFER

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

ELECTRICAL DRAWING INDEX

SHEET	DESCRIPTION
E-001	ELECTRICAL SYMBOLS, LEGEND, NOTES AND INDEX
E-002	ELECTRICAL GENERAL NOTES
E-003	ELECTRICAL SCHEDULES
E-101	ELECTRICAL OVERALL PLANS
E-102	ELECTRICAL ENLARGED PLANS

TLC ENGINEERING SOLUTIONS
4360 Chamblee Dunwoody Rd.
Suite 210
Atlanta, GA 30341
P 770.451.6757
COA 15
www.tlc-engineers.com
TLC No:824325
THINK. LISTEN. CREATE.

RANDALL PAULSON
architects
Roswell . Nashua

NO. PE044777
TAWAN C. MARTIN
04/25/25

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

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Revisions

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Project No.: 2024509.00

Sheet Title
ELECTRICAL SYMBOLS, LEGEND, NOTES AND INDEX

Sheet No.
E-001

■ Released for Construction
☐ Not Released for Construction

APPLICABLE CODES

ALL WORK UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE AND IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS INCLUDING THE REGULATIONS OF GOVERNING LOCAL, STATE, COUNTY AND OTHER APPLICABLE CODES. REFER TO SPECIFICATIONS FOR ADDITIONAL CODE REQUIREMENTS:

BUILDING CODES:
- INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS
- INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION, WITH GEORGIA AMENDMENTS
- INTERNATIONAL FIRE CODE, 2018 EDITION

ADDITIONAL CODES, STANDARDS, AND REQUIREMENTS
1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
2. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).
3. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).
4. REQUIREMENTS OF LOCAL POWER COMPANY.
5. THE AMERICANS WITH DISABILITIES ACT (ADA).
6. OWNER'S PUBLISHED DESIGN STANDARDS.
7. FGI GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS AND OUTPATIENT FACILITIES (2022)

ALL MATERIALS SHALL BE NEW AND FREE OF DEFECTS, AND SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LAB, AS DEFINED BY OSHA. WHERE NO LABELING OR LISTING SERVICE IS AVAILABLE FOR CERTAIN TYPES OF EQUIPMENT, TEST DATA SHALL BE SUBMITTED TO VALIDATE THAT EQUIPMENT MEETS OF EXCEEDS AVAILABLE STANDARDS.

NATIONAL FIRE PROTECTION (NFPA) STANDARDS:
- NFPA 70, 2023 EDITION, NATIONAL ELECTRICAL CODE®.
- NFPA 72, 2019 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE.
- NFPA 75, 2020 EDITION, STANDARD FOR THE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT.
- NFPA 80, 2019 EDITION, STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.
- NFPA 99, 2021 EDITION, HEALTH CARE FACILITIES CODE.
- NFPA 101, 2021 EDITION, LIFE SAFETY CODE®.
- NFPA 110, 2019 EDITION, STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS.
- NFPA 111, 2019 EDITION, STANDARD ON STORED ELECTRICAL ENERGY EMERGENCY AND STANDBY POWER SYSTEMS.

ELECTRICAL DEMOLITION NOTES

1. DEVICES, LIGHT FIXTURES AND EQUIPMENT SHOWN IN DASHED LINE TYPE ARE EXISTING TO BE DEMOLISHED; DEVICES, LIGHT FIXTURES AND EQUIPMENT SHOWN IN LIGHT (SCREENED) SOLID LINE TYPE ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
2. EXISTING EQUIPMENT, LIGHT FIXTURES AND DEVICES SHOWN ARE BASED ON FIELD SURVEYS AND RECORD DRAWINGS PROVIDED BY THE OWNER, AND ARE NOT NECESSARILY INCLUSIVE OF ALL EXISTING ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND DEVICES WITHIN PROJECT AREAS. IT IS THE INTENT THAT THE DEMOLITION PLANS PROVIDE A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THE PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED ELECTRICAL DEMOLITION WHETHER INDICATED ON THE PLANS OR NOT.
3. EXISTING CIRCUITING SHOWN IS BASED ON RECORD DRAWINGS AND THE SURVEYED PANEL DIRECTORIES, WHERE THEY WERE AVAILABLE. THE ACTUAL CONDITIONS MAY VARY. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. THE CONDITIONS SHOWN ARE INTENDED TO SHOW THE LOCATIONS OF EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT, WHERE SHOWN ON THE PLAN DRAWINGS, AND IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING ANY AND ALL COORDINATION NECESSARY TO COMPLETE THE NEW WORK. FIELD CONDITIONS SHALL GOVERN.
4. WHERE EXISTING DEVICES ARE INDICATED TO REMAIN OR BE RELOCATED, ARE WITHIN THE SCOPE OF THIS PROJECT AND EXISTING CIRCUITING INFORMATION IS UNAVAILABLE, CONTRACTOR IS TO PROVIDE CIRCUIT TRACING TO IDENTIFY PANEL AND CIRCUIT SERVING THE DEVICE TO AND PROVIDE THAT INFORMATION TO THE ARCHITECT/ENGINEER PRIOR TO ROUTING CONDUITS AND WIRING FOR NEW DEVICES AND EQUIPMENT WITHIN THE SCOPE OF THIS PROJECT.
5. WHERE EXISTING DEVICES ARE TO REMAIN, CONTRACTOR MUST EXTEND EXISTING CIRCUITING WHERE NECESSARY TO MAINTAIN CONTINUITY OF CIRCUIT.
6. COORDINATE WITH THE OWNER FOR DISPOSITION OF ELECTRICAL ITEMS TO BE DEMOLISHED. OWNER SHALL HAVE THE OPTION TO RETAIN REUSABLE ITEMS SUCH AS COVERPLATES, RECEPTACLES, LIGHT FIXTURES, PANELBOARDS, TRANSFORMERS, ETC. NOT BEING USED IN THE FINISHED WORK. COORDINATE WITH THE OWNER PRIOR TO START OF DEMOLITION. PROPERLY AND LEGALLY DISPOSE OF ALL EQUIPMENT AND MATERIALS BEING REMOVED.
7. COORDINATE EXACT AREAS, WALLS, CEILINGS, ETC. TO BE DEMOLISHED WITH ARCHITECTURAL, STRUCTURAL, PLUMBING AND MECHANICAL DEMOLITION PLANS.
8. WHERE EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT ARE INDICATED TO BE DEMOLISHED, REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE PANEL OR TO NEAREST JUNCTION BOX TO MAINTAIN CIRCUIT CONTINUITY OF DEVICES AND EQUIPMENT TO REMAIN. WHERE PANELS ARE TO REMAIN, TURN BREAKER TO "OFF" POSITION AND LABEL THE CIRCUIT AS "SPARE" ON THE PANEL DIRECTORY.
9. ALL AREAS OUTSIDE THE SCOPE OF CONSTRUCTION ARE TO REMAIN ENERGIZED. COORDINATE PHASING WITH CONSTRUCTION MANAGER AND OWNER PRIOR TO DEMOLITION OF ANY ITEM WHICH MAY RESULT IN INTERRUPTION OF POWER.
10. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR EXTENT OF AREA REQUIRING DEMOLITION AND ADDITIONAL INFORMATION ON ELECTRICAL DEMOLITION WITHIN THAT AREA. DISCONNECT ELECTRICAL SERVICE TO ALL EQUIPMENT BEING REMOVED. DEMOLITION SHALL BE PHASED AS REQUIRED BY DIVISION 1, OR DIRECTED BY THE OWNER.
11. REMOVE ALL CONDUIT LEFT EXPOSED BY REMOVAL OF WALLS AND CEILINGS IN REMODELED OR RENOVATED AREA. CAP BOTH ENDS OF REMAINING CONDUIT IN WALL OR FLOOR WHERE CUT.
12. ELECTRICAL DEVICES CONCEALED BY STORAGE SHELVING, CASEWORK, FURNITURE, ETC., AND NOT NOTED ON THE DEMOLITION DRAWINGS ARE TO BE REMOVED AS REQUIRED, UNLESS SHOWN AS EXISTING TO REMAIN.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ALL OPENINGS IN EXISTING CONSTRUCTION AFTER REMOVAL OF EQUIPMENT AND ELECTRICAL DEVICES, UNLESS OTHERWISE NOTED ON ARCHITECTURAL PLANS. REPAIRS ARE TO BE DONE TO LOGICAL EDGES OF SURFACES AFFECTED AND SHALL MATCH IMMEDIATELY ADJACENT AREAS IN CONSTRUCTION, MATERIAL, FIRE RATING, FINISH AND COLOR.
14. PROVIDE BLANK COVERPLATES WHERE DEVICES ARE BEING REMOVED FROM EXISTING WALLS TO REMAIN. MATCH COLOR OF NEW ADJACENT DEVICE COVERPLATES.
15. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK AND OBTAIN CLARIFICATIONS FROM ARCHITECT/ENGINEER IF NECESSARY.
16. COORDINATE ALL POWER INTERRUPTION WITH CONSTRUCTION MANAGER, OWNER, LANDLORD, AND UTILITY COMPANY (WHERE APPLICABLE) AND DO NOT INTERRUPT POWER WITHOUT WRITTEN PERMISSION. PROVIDE A MINIMUM OF ONE WEEK'S WRITTEN NOTIFICATION PRIOR TO WHEN POWER IS DESIRED TO BE INTERRUPTED. CONTRACTOR SHALL INVESTIGATE AND IDENTIFY ALL LOADS TO BE AFFECTED BY THE REQUESTED INTERRUPTION. CONTRACTOR SHALL SUBMIT WRITTEN SEQUENCE OF STEPS FOR EACH SHUTDOWN ALONG WITH THE ESTIMATED INTERRUPTION DURATIONS. MAKE ARRANGEMENTS TO MAINTAIN POWER TO ALL EXISTING NECESSARY LIGHTING, DEVICES AND EQUIPMENT AS NEEDED AND REQUESTED BY THE OWNER PRIOR TO COMMENCEMENT OF WORK.
17. EXERCISE EXTREME CAUTION WHEN REMOVING/ RELOCATING WIRING AND EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT OTHER WIRING DEVICES, EQUIPMENT AND LIGHT FIXTURES THAT MAY BE CONNECTED TO THE SAME CIRCUIT REMAIN OPERATIONAL AND ACTIVE.
18. INFORMATION INDICATED IN THE DEMOLITION PORTION OF THE CONTRACT DRAWINGS IS DIAGRAMMATIC IN NATURE. FIELD VERIFY ELECTRICAL CIRCUIT HOMERUNS TO ALL ELECTRICAL ITEMS SCHEDULED TO BE DEMOLISHED AND PERFORM THE WORK AS INTENDED AND DEPICTED ON THE DRAWINGS.
19. UPDATE ALL EXISTING ELECTRICAL EQUIPMENT NAMEPLATES AND DIRECTORIES AS NECESSARY TO REFLECT FINAL AS-BUILT CONDITIONS AT THE END OF CONSTRUCTION.
20. STORE ITEMS INDICATED TO BE RETURNED TO THE OWNER IN A DRY, CLEAN AND PROTECTED AREA. NOTIFY OWNER WHEN ITEMS ARE READY TO BE REMOVED.
21. COORDINATE ANY ALTERATION AND CHANGES TO THE ELECTRICAL SERVICE WITH THE LOCAL UTILITY COMPANY AND THE OWNER PRIOR TO COMMENCEMENT OF WORK.
22. PROVIDE ANY NECESSARY REPROGRAMMING OF EXISTING BUILDING FIRE ALARM SYSTEMS TO DISABLE FIRE ALARM DEVICES THAT ARE BEING DISCONNECTED AND REMOVED, AND FOR ANY NEW DEVICES THAT ARE ADDED, AS PART OF BID PRICE.
23. ALL CONDUITS SERVING OTHER SPACES THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION SO AS NOT TO CAUSE DISRUPTION TO THESE OTHER SPACES. ENSURE THAT ALL CONDUITS, NEW OR EXISTING WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED IN ACCORDANCE WITH THE NEC.
24. REMOVE ALL ABANDONED WIRING AND CONDUIT THAT IS WITHIN THE PROJECT AREA PRIOR TO THE END OF CONSTRUCTION.

FIRE ALARM SYSTEM NOTES

1. ALL FIRE ALARM EQUIPMENT IS TO BE NEW, UL LISTED FOR FIRE SERVICE, AND SHALL BE COMPATIBLE WITH THE SYSTEM BEING USED.
2. ALL WIRING AND CONDUIT IS TO CONFORM TO NEC ARTICLE 760. WIRING SHALL BE UL LISTED, MINIMUM 300V TYPE FPLP PLENUM RATED SOLID COPPER OR STRANDED COPPER WITH MAXIMUM 19 STRANDS.
3. LOW VOLTAGE CONDUCTORS: PROVIDE CONDUCTORS IN ACCORDANCE WITH NFPA 70 AND NFPA 72, AND AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER. CONDUCTORS SHALL BE COPPER, MINIMUM NO. 14 AWG, TWISTED SHIELDED PAIR.
4. SURVIVABILITY: A 2-HOUR RATED CABLE ASSEMBLY SHALL BE PROVIDED FOR NOTIFICATION APPLIANCE CIRCUITS AND ANY OTHER CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCE CIRCUITS FROM THE POINT AT WHICH THEY EXIT THE CONTROL UNIT UNTIL THE POINT THAT THEY ENTER THE NOTIFICATION ZONE THAT THEY SERVE.
5. MANUAL PULL STATIONS ARE TO BE INSTALLED AT 42" TO BOTTOM OF DEVICE AND NO HIGHER THAN 48" TO HANDLE ABOVE FINISHED FLOOR.
6. PROVIDE MINIMUM 3/4" CONDUIT AND WIRING BETWEEN EACH FIRE ALARM DEVICE AND FROM LAST DEVICE TO FACP UNLESS OTHERWISE NOTED.
7. PROVIDE DUCT DETECTOR (AND FIRE ALARM RELAY WHERE APPLICABLE) CONNECTED TO FIRE ALARM SYSTEM, WITHIN 5' OF ALL DUCT PENETRATIONS THROUGH FIRE/SMOKE WALLS, WHETHER INDICATED ON ELECTRICAL OR MECHANICAL PLANS OR NOT.
8. FIRE ALARM CONTROL PANEL IS TO BE PROVIDED WITH DEDICATED 120V CIRCUIT WITH EQUIPMENT GROUND CONNECTION PER MANUFACTURER'S RECOMMENDATIONS AND ARTICLE 760 OF THE NEC. PROVIDE MINIMUM #12 AWG FOR GROUND CONNECTION. NOTE: PANEL NEUTRAL OR CONDUIT GROUND IS NOT ACCEPTABLE. 120V CIRCUIT SHALL BE FROM EMERGENCY/LIFE SAFETY BRANCH WHERE AVAILABLE.
9. SECONDARY BACK-UP POWER SHALL BE PROVIDED BY INTEGRAL BATTERIES WITHIN THE FIRE ALARM CONTROL PANEL TO SUPPLY POWER TO THE SYSTEM UNDER QUIESCENT LOAD FOR A MINIMUM OF 24 HOURS, AND THEN BE CAPABLE OF AN ADDITIONAL 15 MINUTES (5 MINUTES FOR NON VOICE SYSTEMS) ALARM OPERATION AT MAXIMUM CONNECTED LOAD.
10. ALL FIRE ALARM POWER CIRCUITS SHALL HAVE A DEDICATED 120V 20A BREAKER THAT SHALL BE RED IN COLOR AND MECHANICALLY PROTECTED (LOCKABLE IN THE "ON" POSITION), MARKED AS "FIRE ALARM CIRCUIT".
11. A SUPERVISORY SIGNAL SHALL BE ANNUNCIATED UPON ANY TAMPER SWITCH ACTIVATION. FAILURE OR REMOVAL OF ANY DETECTION OR MANUAL DEVICE SHALL ACTIVATE A TROUBLE SIGNAL.
12. A CERTIFICATION OF COMPLETION AND UL LISTING SHALL BE ISSUED AND INSTALLED ON THE FIRE ALARM CONTROL PANEL. SUBMIT NFPA RECORD OF COMPLETION FORM ALONG WITH SMOKE DETECTOR SENSITIVITY REPORT FOR ALL DETECTORS WITHIN THE PROJECT AREA TO ENGINEER AND MAKE AVAILABLE AT FINAL INSPECTION.
13. MINIMUM CANDELA RATING OF STROBES IS 75; "110" ADJACENT TO DEVICE INDICATES 110 CANDELA RATING. PROVIDE SYNCHRONIZATION OF STROBES IN ALL ADJACENT AREAS WHERE STROBES ARE VISIBLE TO EACH OTHER.
14. ALL STROBES SHALL ACTIVATE UPON INITIATION OF THE GENERAL ALARM.
15. ALL STROBES SHALL BE INSTALLED PER ADA MOUNTING HEIGHT REQUIREMENTS. WALL MOUNTED STROBES SHALL BE INSTALLED SO THAT THE BOTTOM OF THE STROBE LENS IS 80" AFF.
16. STROBES SHALL BE INSTALLED WITHIN 15' OF THE ENDS OF ALL CORRIDORS.
17. FIRE ALARM DEVICES INSTALLED OUTSIDE OR IN AREAS OPEN TO THE EXTERIOR SHALL BE WEATHERPROOF DEVICES IN APPROVED BACKBOXES.
18. SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE, UNLESS SPECIFICALLY NOTED OTHERWISE.
19. SMOKE DETECTORS ARE TO BE INSTALLED PER NFPA 72. WALL MOUNTED SMOKE DETECTORS SHALL BE MOUNTED 4"-12" BELOW THE CEILING AND AWAY FROM CORNERS.
20. SMOKE DETECTORS LOCATED IN ELEVATOR LOBBIES, ELEVATOR HOISTWAYS AND ELEVATOR MACHINE ROOMS SHALL INITIATE ELEVATOR RECALL, ACTIVATE ELEVATOR WARNING LIGHTS AND CAUSE SEPARATE AND DISTINCT VISIBLE ANNUNCIATION AT THE FIRE ALARM CONTROL PANEL AND FIRE ALARM ANNUNCIATORS.
21. DUCT DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE, AND RATED FOR VELOCITIES UP TO 5000 FT/MIN.
22. HEAT DETECTORS SHALL BE ADDRESSABLE, FIXED TYPE @ 135 DEG F, UNLESS OTHERWISE NOTED.
23. FOR PROJECTS WITH AN ELEVATOR, THE ELEVATOR CONTROL PANEL SHALL HAVE TWO SIGNALS FROM THE FIRE ALARM CONTROL PANEL/ ASSOCIATED SMOKE DETECTORS - ONE FROM THE "DESIGNATED FLOOR" SMOKE DETECTOR AND ANOTHER COMBINED SIGNAL FROM THE SMOKE DETECTORS AT THE OTHER LOBBY LANDINGS AND IN THE ELEVATOR EQUIPMENT ROOM.
24. ACTIVATION OF ANY SMOKE DETECTOR IN THE ELEVATOR LOBBY OF THE DESIGNATED PRIMARY RECALL LEVEL OR ELEVATOR MACHINE ROOM SHALL ACTIVATE ALTERNATE LEVEL RECALL.
25. PRIOR TO INSTALLATION OF ELEVATOR HOISTWAY HEAT DETECTORS, VERIFY WITH LOCAL AUTHORITY HAVING JURISDICTION IF THEY ARE REQUIRED.
26. HEAT DETECTORS SHALL BE LOCATED WITHIN 24" OF SPRINKLER HEADS LOCATED IN THE ELEVATOR MACHINE ROOM AND ALL HOISTWAY SPRINKLER HEADS LOCATED 24" ABOVE THE ELEVATOR PIT FLOOR. THESE HEAT DETECTORS SHALL HAVE BOTH A LOWER TEMPERATURE RATING AND HIGHER SENSITIVITY THAN THE SPRINKLER HEADS. HEAT DETECTORS SHALL OPEN THE MAIN DISCONNECT/POWER SUPPLY TO THE ELEVATOR CONTROLLER. CONTROL CIRCUITS TO SHUT OFF ELEVATOR POWER SHALL BE MONITORED BY THE FIRE ALARM CONTROL PANEL.CONTROL MODULE SHALL BE WITHIN 3 FEET OF THE ELEVATOR CONTROLLER.
27. WHERE THERE IS A GENERATOR ON THE PROJECT, PROVIDE RELAYS AS REQUIRED FOR THE FIRE ALARM SYSTEM TO MONITOR THE FOLLOWING THREE CONDITIONS: GENERATOR RUNNING; GENERATOR FAULT; GENERATOR SWITCH NOT IN AUTO.
28. WHERE THERE IS A FIRE PUMP ON THE PROJECT, PROVIDE RELAYS AS REQUIRED FOR THE FIRE ALARM SYSTEM TO MONITOR THE FOLLOWING THREE CONDITIONS: FIRE PUMP RUNNING; FIRE PUMP LOSS OF POWER; FIRE PUMP POWER PHASE REVERSAL.
29. PROVIDE AN ADDRESSABLE FIRE ALARM SYSTEM PER NFPA AND ALL STATE AND LOCAL CODE REQUIREMENTS. COMPLY WITH NFPA 72 AND ADA REQUIREMENTS.
30. FIELD VERIFY LOCATION OF AREA SMOKE DETECTORS AND HEAT DETECTORS. DO NOT LOCATE WITHIN 36" OF AN HVAC DIFFUSER (SUPPLY OR RETURN), IN DIRECT AIR FLOW PATH, OR WITHIN 24" OF A SPRINKLER HEAD UNLESS NOTED OTHERWISE. SMOKE DETECTORS FOR DOOR RELEASE SHALL BE LOCATED ON THE CENTERLINE OF THE DOOR AND A MAXIMUM OF FIVE FEET FROM THE DOOR. THE MINIMUM DISTANCE FROM THE DOOR SHALL BE THE DEPTH OF THE WALL SECTION ABOVE THE DOOR, BUT NOT LESS THAN 12".
31. PROVIDE LABELS FOR REMOTE ALARM INDICATORS FOR DUCT MOUNTED SMOKE DETECTORS (I.E., AHU-1 SUPPLY, AHU-2 RETURN, FIRE/SMOKE DAMPER, ETC.). DUCT DETECTORS SHOULD BE LOCATED WITHIN 6 TO 10 EQUIVALENT DIAMETERS OF STRAIGHT, UNINTERRUPTED DUCTWORK. DUCT DETECTORS FOR FIRE/SMOKE DAMPERS SHOULD BE LOCATED BETWEEN THE LAST INLET OR OUTLET UPSTREAM OF THE DAMPER AND THE FIRE INLET OR OUTLET DOWNSTREAM OF THE DAMPER, AND WITHIN FIVE FEET OF THE FIRE/SMOKE WALL.
32. EQUIPMENT SHUT DOWN FIRE ALARM RELAYS SHALL BE LOCATED WITHIN THREE (3) FEET OF THE EQUIPMENT CONTROLS AND THE WIRING TO THE RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
33. ALL FIRE ALARM CABLE SHALL BE INSTALLED IN CONDUIT; NO FIRE ALARM CONDUIT SHALL BE INSTALLED UNDER SLAB. PROVIDE MANUFACTURED RED CONDUIT UNLESS OTHERWISE NOTED.
34. MINIMIZE EXPOSURE OF DETECTORS TO DIRT AND DUST FROM CONSTRUCTION. PROVIDE PLASTIC COVERS DURING CONSTRUCTION.
35. STATE CERTIFIED AND LICENSED FIRE ALARM CONTRACTOR SHALL PREPARE AND SUBMIT SIGNED AND SEALED DRAWINGS FOR THE LOCAL AUTHORITY HAVING JURISDICTION/ FIRE MARSHALL.
36. FOR RENOVATION PROJECTS, CONTRACTOR SHALL PROVIDE MEANS OF AUTOMATIC SMOKE DETECTION VIA INSTALLED SMOKE DETECTORS CONNECTED TO THE FACILITY FIRE ALARM SYSTEM FOR COVERAGE DURING NON-OCCUPIED PERIODS WITHIN THE CONSTRUCTION AREA. ALTERNATIVELY, A DOCUMENTED FIRE WATCH OF THE ENTIRE AREA PERFORMED IN INCREMENTS NO GREATER THAN ONE HOUR MAY BE PERFORMED PROVIDED THAT IT IS DOCUMENTED IN FULL ACCORDANCE WITH NFPA 72. COORDINATE ACTIVITY IN FIELD WITH GENERAL CONTRACTOR.
37. ALL NOTIFICATION DEVICES SHALL MATCH EXISTING NOTIFICATION DEVICES IN COLOR.
38. FIRE ALARM CIRCUITS SHALL MATCH EXISTING CLASS IN EXISTING BUILDINGS.
39. ALL NOTIFICATION DEVICES SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED.
40. FIRE ALARM CIRCUITS SHALL BE CLASS "A",
41. NOTIFICATION DEVICES SHALL BE ADDRESSABLE ELECTRIC-VIBRATING-POLARIZED HORNS, SELECTABLE FOR HIGH OR LOW dBA OUTPUT. THEY SHALL HAVE A SOUND PRESSURE LEVEL OF 90dBA MEASURED 10 FEET FROM HORN, USING CODED SIGNAL PER NFPA 72.
42. FIRE ALARM CONTRACTOR/VENDOR SHALL PREPARE WORKING DRAWINGS INCORPORATING THE FIRE ALARM CRITERIA DESIGN AND CONFIRMING TO AHJ REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL MATERIAL REQUIRED PER AHJ AND DESIGN CRITERIA FOR A FULLY FUNCTIONING AND PERMITTABLE FIRE ALARM SYSTEM. SUBMIT TO DESIGN PROFESSIONAL AS A SHOP DRAWING FOR REVIEW. SUBMIT COMPLETE SIGNED & SEALED DRAWINGS TO PERMITTING AGENCY AND FOR CERTIFICATE OF OCCUPANCY. COMPLETED FIRE ALARM CERTIFICATION SHALL BE PROVIDED TO OWNER AT COMPLETION OF CONSTRUCTION.
43. WHERE A FIRE ALARM RISER IS INDICATED, IT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO REPRESENT A COMPLETE WIRING AND DEVICE DISPLAY. ALL WIRING AND DEVICES SHALL BE IN ACCORDANCE WITH SELECTED VENDOR'S POINT-BY-POINT WIRING DIAGRAM. REFER TO FLOOR PLAN FOR DESIGN INTENT AND PROPOSED QUANTITY OF FIRE ALARM SYSTEM COMPONENTS.

ELECTRICAL GENERAL NOTES

GENERAL REQUIREMENTS

1. THE DRAWINGS AND APPLICABLE SPECIFICATIONS SHALL BE CONSIDERED SUPPLEMENTARY, ONE TO THE OTHER AND ARE CONSIDERED THE "CONTRACT DOCUMENTS". ALL WORKMANSHIP, METHODS AND/OR MATERIALS DESCRIBED OR IMPLIED BY ONE AND NOT DESCRIBED OR IMPLIED BY THE OTHER SHALL BE PROVIDED, FURNISHED OR PERFORMED AS IF IT HAD APPEARED IN BOTH SECTIONS. THE TERM "CONTRACT DOCUMENTS" DESCRIBED HEREIN IS NOT LIMITED SOLELY TO THE ELECTRICAL PORTION OF THE DRAWINGS AND SPECIFICATIONS, BUT ENCOMPASSES THE DRAWINGS AND SPECIFICATIONS OF ALL DIVISIONS AS A WHOLE.
2. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY DETAIL OF CONSTRUCTION, METHODS, MATERIALS AND EQUIPMENT, OR EXACT LOCATIONS, ROUTING, ETC. THEY INDICATE THE RESULT TO BE ACHIEVED BY THE ASSEMBLAGE OF SEVERAL SYSTEMS FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. DO NOT SCALE THE CONTRACT DOCUMENTS. COORDINATE EXACT EQUIPMENT LOCATIONS WITH THE ARCHITECTURAL, CIVIL AND STRUCTURAL CONTRACT DOCUMENTS, AS WELL AS FIELD CONDITIONS, APPROVED SHOP DRAWINGS AND WORK OF ALL OTHER DIVISIONS/TRADES.
3. THE TERM "PROVIDE" USED IN THE CONTRACT DOCUMENTS INDICATES TO FURNISH AND INSTALL MATERIALS REQUIRED FOR CORRECT INSTALLATION OF A COMPLETE SYSTEM, UNLESS SPECIFICALLY NOTED OTHERWISE
4. UNLESS NOTED AS EXISTING, ALL ELECTRICAL INDICATED ON THE CONTRACT DOCUMENTS SHALL BE NEW, SHALL BE U.L. LISTED, AND SHALL BEAR A U.L. LABEL. WHERE NO U.L. LABEL OR LISTING IS AVAILABLE, THE MATERIAL SHALL BE LISTED WITH AN APPROVED, NATIONALLY RECOGNIZED ELECTRICAL TESTING AGENCY.
5. PROVIDE EXPERIENCED, QUALIFIED AND RESPONSIBLE SUPERVISION FOR ALL WORK REQUIRED BY THE CONTRACT DOCUMENTS. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND OWNER.
6. CARRY ALL INSURANCE REQUIRED TO PROTECT AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THIS PROJECT
7. GUARANTEE ALL MATERIALS AND WORKMANSHIP ARE FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ARCHITECT/ENGINEER AND OWNER, UNLESS NOTED OTHERWISE IN DIVISION 1. AT NO ADDITIONAL COSTS, PROVIDE THE CORRECTION OF ANY DEFECTS INCLUDING REPAIR OR REPLACEMENT.
8. INCLUDE ALL COSTS ASSOCIATED WITH PERMITS, LICENSES, FEES, INSPECTIONS, TESTING AND TEMPORARY POWER IN THE BID PRICE, UNLESS NOTED OTHERWISE.
9. IF HAZARDOUS MATERIALS ARE ENCOUNTERED, COMPLY WITH ALL APPLICABLE RULES, REGULATIONS AND GUIDELINES CONCERNING REMOVAL, HANDLING, DISPOSAL AND PROTECTION AGAINST ENVIRONMENTAL EXPOSURE OR POLLUTION. PROVIDE DOCUMENTATION OF SAID COMPLIANCE.
10. PROVIDE ELECTRONIC SUBMITTALS (PRODUCT DATA & SHOP DRAWINGS) FOR EACH MAJOR COMPONENT OF THE ELECTRICAL SYSTEM FOR REVIEW BY THE ARCHITECT/ENGINEER AND OWNER. MAJOR COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO, RACEWAYS, BOXES, WIRE AND CABLE, EQUIPMENT, DEVICES, LIGHT FIXTURES, SWITCHGEAR, PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, FIRE ALARM SYSTEM, ETC. ALL SUBMITTALLS ARE TO BE REVIEWED AND APPROVED BY THE CONTRACTOR FOR CONFORMANCE WITH THE PROJECT REQUIREMENTS PRIOR TO SUBMITTING TO THE ARCHITECT/ENGINEER. ALLOW A MINIMUM OF TEN (10) BUSINESS DAYS FOR REVIEW BY ARCHITECT/ENGINEER, UNLESS NOTED OTHERWISE IN DIVISION 1.
11. THE ELECTRICAL PORTION OF THE CONTRACT DOCUMENTS ARE COORDINATED WITH THE DESIGN BASIS EQUIPMENT SPECIFIED BY DIVISION 26 AND OTHER DIVISIONS. WHERE THE CONTRACTOR ELECTS TO SUBSTITUTE A PRODUCT IN LIEU OF PROVIDING THE DESIGN BASIS, AND SAID SUBSTITUTION IS ACCEPTED BY THE ARCHITECT/ENGINEER AND OWNER, THE CONTRACTOR SHALL MAKE ALL CORRECTIONS TO THE ELECTRICAL SYSTEM NECESSARY IN ORDER TO ENSURE A COMPLETE AND OPERATIONAL INSTALLATION OF THE EQUIPMENT AT NO ADDITIONAL COSTS. WHERE THE CONTRACTOR'S DESIGN SUBSTITUTION RESULTS IN THE NEED FOR THE ENGINEER TO REVISE THE CONTRACT DOCUMENTS, THE ENGINEER RESERVES THE RIGHT TO REQUEST COMPENSATION FROM THE CONTRACTOR FOR SAID SERVICES.
12. MAINTAIN A CURRENT AND ACCURATE SET OF PROJECT RECORD DOCUMENTS (AS-BUILTS) AT THE SITE THROUGHOUT THE DURATION OF THE PROJECT. RECORD DRAWINGS SHALL BE UPDATED EACH DAY TO REFLECT THE ACTUAL LOCATIONS, SIZES, ROUTING, ETC. OF EACH PORTION OF THE ELECTRICAL SYSTEM AFFECTED BY THIS WORK. A FINAL SET OF RECORD DOCUMENTS SHALL BE ISSUED TO THE ARCHITECT/ ENGINEER FOR REVIEW AND THEN SUBMITTED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF FINAL ACCEPTANCE. PROVIDE RECORD DRAWINGS OF THE ACTUAL INSTALLATION INCLUDING SINGLE LINE DIAGRAM, POWER RISER DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM, SITE PLANS AND ALL ELECTRICAL FLOORPLANS, DETAILS, PANEL SCHEDULES, ETC.
13. PROVIDE AN OPERATING AND MAINTENANCE MANUAL TO OWNER PRIOR TO THE FINAL ACCEPTANCE. THE MANUAL SHALL INCLUDE, AS A MINIMUM, (1) SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. ALSO PROVIDE TWO OPERATIONS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS AND METHOD OF OPERATION FOR EQUIPMENT SHALL BE CLEARLY IDENTIFIED, AND THE NAME, PHONE NUMBER AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
14. INCLUDE ALL COSTS FOR EXCAVATION, SAW CUTTING, DIRECTIONAL BORING, CORE DRILLING, BACKFILLING, SURFACE RESTORATION, REPAIR OF FINISHES, ETC. THAT IS REQUIRED IN ORDER TO MEET THE PROJECT REQUIREMENTS.
15. INCLUDE IN BID ALL COSTS ASSOCIATED WITH TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR USE BY ALL TRADES DURING CONSTRUCTION. REMOVE TEMPORARY POWER AT THE COMPLETION OF THE PROJECT. OBTAIN AND PAY FOR ALL REQUIRED PERMITS FOR TEMPORARY POWER. ENGINEER OF RECORD SHALL BE PROVIDED WITH ADDITIONAL COMPENSATION FROM THE CONTRACTOR WHERE SIGNED & SEALED DRAWINGS ARE REQUESTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD IF REQUIRED BY THE AHJ FOR THE TEMPORARY POWER.
16. LOCATE, IDENTIFY, PROTECT AND DOCUMENT ALL UTILITY LINES LOCATED WITHIN THE PROJECT BOUNDARY. FOR LOCATING SITE UTILITIES, CONTACT ALL LOCAL MUNICIPALITIES AND UTILITIES AT LEAST 48 HOURS PRIOR TO DIGGING.
17. INCLUDE IN BID THE TRANSPORT AND DISPOSAL OR RECYLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL RULES, REGULATIONS AND GUIDELINES APPLICABLE. COMPLY FULLY WITH ALL APPLICABLE STATUTES REGARDING MERCURY- CONTAINING DEVICES, AND WITH ALL LOCAL, STATE AND FEDERAL APPLICABLE GUIDELINES AT THE TIME OF DISPOSAL. PROVIDE OWNER WITH WRITTEN CERTIFICATION OF ACCEPTED DISPOSAL.

COORDINATION

1. VERIFY AND COORDINATE LOCATIONS OF ANY MISCELLANEOUS EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (I.E., COPIERS, FAX MACHINES, PRINTERS, KITCHEN APPLIANCES, LAUNDRY APPLIANCES, PROJECTION SCREENS, SHOP TOOLS, MACHINE, ELEVATORS, ETC.) WITH APPROVED SHOP DRAWINGS, OWNER-PROVIDED CUT SHEETS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED.
2. VERIFY AND COORDINATE LOCATIONS AND EXACT ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT PRIOR TO SUBMITTAL OF SHOP DRAWINGS OF ELECTRICAL EQUIPMENT. PROVIDE ALL NECESSARY RACEWAYS, CONDUCTORS, BOXES, EQUIPMENT, ACCESSORIES, ASSOCIATED DISCONNECT SWITCHES, CIRCUIT BREAKERS, CONTROL TRANSFORMERS, FIRE ALARM SHUTDOWN, ETC. REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH APPROPRIATE TRADE'S APPROVED SHOP DRAWINGS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED, UNLESS NOTED OTHERWISE.
3. THIS PROJECT REQUIRES COORDINATION DRAWINGS BY THE CONTRACTOR. PARTICIPATE IN THE COORDINATION DRAWING PREPARATION PROCESS AND PROVIDE ALL NECESSARY INFORMATION REQUIRED TO COORDINATE ALL TRADE INFORMATION.
4. ALL WORK ON THE ELECTRICAL SYSTEM REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE COORDINATED WITH THE WORK OF ALL OTHER DIVISIONS/TRADES PRIOR TO COMMENCEMENT OF WORK. AVOID INTERFERENCES WITH THE PROGRESS OF OTHER DIVISIONS/TRADES.
5. WHERE WALLS ARE OF TILT-UP OR PRE-CAST CONSTRUCTION, PROVIDE COORDINATION FOR EXACT DIMENSIONS AND OPENINGS REQUIRED FOR ALL ELECTRICAL COMPONENTS INSTALLED WITHIN SUCH WALLSDURING THE SHOP DRAWING REVIEW PROCESS OF THE WALLS, PRIOR TO CONSTRUCTION OF THE WALLS.
6. LOCATIONS OF VFD'S, DISCONNECTS, MOTOR STARTERS, ETC. FOR HVAC EQUIPMENT ARE DIAGRAMMATIC ON THE PLAN DRAWINGS. EXACT LOCATIONS ARE TO BE COORDINATED WITH CONTRACTOR'S COORDINATION DRAWINGS PRIOR TO ROUGH-IN TO ENSURE PROPER NEC CLEARANCES AND APPROPRIATE MOUNTING SURFACE.
7. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, CIVIL, LANDSCAPE, INTERIOR DESIGN, TECHNOLOGY, STRUCTURAL, AND VENDOR EQUIPMENT DRAWINGS FOR RELATED INFORMATION AND ADDITIONAL INSTALLATION REQUIREMENTS TO BE PERFORMED AS PART OF THE WORK.
8. WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER, OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IN WRITTEN FORM. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES OR OWNER'S DESIGN STANDARDS, WHEREIN THE CODE OR OWNER'S DESIGN STANDARDS SHALL GOVERN.
9. CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND/OR SITE AFFECTED BY THIS WORK PRIOR TO SUBMITTING BID PRICE, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT EXECUTION OF THE WORK. SUBMISSION OF A BID PRICE SHALL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT AND/OR MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED THAT COULD HAVE BEEN REASONABLY OBSERVED WILL NOT BE RECOGNIZED.
10. COORDINATE ALL PROJECT SCHEDULING AND PHASING REQUIREMENTS WITH ARCHITECT/ENGINEER AND OWNER PRIOR TO SUBMITTING BID PRICE. THIS PROJECT MAY REQUIRE PHASING SEQUENCES AND POTENTIAL PREMIUM TIME WORK AND ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE BID PRICE. PROVIDE ADEQUATE WORK FORCE AND EQUIPMENT, AND INCLUDE PREMIUM TIME AS MAY BE REQUIRED IN ORDER TO ADHERE TO THE PROJECT SCHEDULE. ADDITIONALLY, ENSURE THAT LONG LEAD ITEMS DO NOT IMPACT THE PROJECT'S SCHEDULE OR PHASING.
11. ANY TEMPORARY INTERRUPTION OF POWER REQUIRED FOR THE SYSTEM TIE-IN OR SWITCHOVER FOR ANY PORTION OF THE ELECTRICAL SYSTEM SHALL BE PRE-APPROVED IN WRITING BY THE OWNER AND SCHEDULED IN ADVANCE.
12. COORDINATE EXACT REQUIREMENTS WITH THE LOCAL UTILITY COMPANIES AND PROVIDERS (ELECTRIC, TELEPHONE, CABLE TV, ETC.) AND INCLUDE ALL COSTS FOR PROVIDING TEMPORARY AND PERMANENT SERVICES REQUIRED FOR THIS PROJECT IN THE BID PRICE. BID PRICE SHALL INCLUDE, BUT NOT BE LIMITED TO, EXCAVATION, RACEWAYS, BACKFILL, EQUIPMENT, EQUIPMENT PADS, BACKBOARDS, METERS, GROUNDING, UTILITY ENGINEERING AND IMPACT FEES.
13. CONDUCT WORK OPERATIONS AND DEBRIS REMOVAL IN A MANNER THAT ENSURES MINIMUM INTERFERENCE WITH NORMAL BUSINESS OPERATIONS, TRAFFIC, PARKING, ETC. ONGOING IN ADJACENT OCCUPIED SPACES OR FACILITIES. PROVIDE ALL THAT IS REQUIRED TO EFFECTIVELY PROTECT SURROUNDING OCCUPANTS, EQUIPMENT, FINISHES, FURNITURE, ETC. FROM DAMAGE OR EXCESSIVE NOISE THROUGHOUT THE DURATION OF THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR ANY LOSSES OR ANY DAMAGE RESULTING FROM THE FAILURE TO ADHERE TO THIS REQUIREMENT. RESTORE DAMAGED ELEMENTS TO ORIGINAL CONDITION TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND OWNER, AT NO ADDITIONAL COSTS. REPORT OF ANY SUCH OCCURRENCE TO THE ARCHITECT/ENGINEER AND OWNER IMMEDIATELY AND AWAIT WRITTEN DIRECTION PRIOR TO PROCEEDING WITH REPAIRS.
14. COORDINATE THE LOCATION OF ALL LIGHT FIXTURES, DEVICES AND BOXES WITH WINDOWS, MIRRORS, MILLWORK, CABINETS, GLASS CURTAIN WALLS, AND GLASS WALLS PRIOR TO INSTALLATION OF CONDUITS OR BOXES. REVIEW ALL CONTRACT DRAWINGS TO ASCERTAIN ANY CONFLICTS PRIOR TO BIDDING. OBTAIN CLARIFICATION FROM THE ARCHITECT/ENGINEER PRIOR TO BID. CONTRACTOR SHALL NOT BE ENTITLED TO ADDITIONAL COMPENSATION FOR WORK REQUIRED TO RELOCATE OUTLET BOXES OR RACEWAYS FOR COORDINATION WITH OTHER TRADE'S WORK.

GROUNDING

1. FIRE PROTECTION PIPING SHALL NOT BE USED FOR GROUNDING.
2. ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR. METAL RACEWAYS SHALL NOT BE USED AS THE SOLE EQUIPMENT GROUND.
3. WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.
4. PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.

ELECTRICAL EQUIPMENT

1. EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED. ALL COMPONENTS OF THE ELECTRICAL SYSTEM LOCATED OUTDOORS OR INDOORS WHERE EXPOSED TO SIGNIFICANT MOISTURE SHALL BE WEATHERPROOF, NEMA 3R, AS A MINIMUM, WHETHER INDICATED ON THE CONTRACT DRAWINGS OR NOT.
2. TERMINATION PROVISIONS FOR ALL ELECTRICAL EQUIPMENT (PANELBOARDS, SWITCHBOARD, TRANSFORMERS, DISCONNECT SWITCHES, MOTOR CONTROLLERS, AUTOMATIC TRANSFER SWITCHES, ENCLOSED CIRCUIT BREAKERS, BUSWAYS, ETC.) SHALL BE LISTED AND IDENTIFIED FOR USE WITH MINIMUM 75 DEG. F CONDUCTORS IN ACCORDANCE WITH NEC.
3. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC.
4. THE ELECTRICAL DEDICATED EQUIPMENT SPACE EXTENDING FROM FLOOR TO 6' ABOVE ELECTRICAL EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER DISTANCE IS LOWER, WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, ARCHITECTURAL APPURTENANCES AND OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION IN ACCORDANCE WITH NEC.
5. PROVIDE A REINFORCED CONCRETE PAD, SIZED 4" LARGER IN ALL DIRECTIONS THAN THE FOOTPRINT OF THE EQUIPMENT, AND 4" HIGH, FOR ALL FREESTANDING, FLOOR-MOUNTED ELECTRICAL EQUIPMENT. PROVIDE VIBRATION ISOLATORS AND/OR ANCHORS PER MANUFACTURER'S INSTRUCTIONS.
6. PROVIDE HACR RATED CIRCUIT BREAKER FOR ALL HVAC EQUIPMENT.
7. ALL PANELBOARDS OR DISCONNECT SWITCHES LOCATED IN KITCHEN AREAS SHALL BE STAINLESS STEEL (COVER AND DOOR WHERE PANEL IS FLUSH MOUNTED; PANEL BOX, COVER & DOOR WHERE SURFACE MOUNTED).
8. PROVIDE SURGE PROTECTION DEVICE FOR ALL MAIN SERVICE EQUIPMENT, PANELBOARDS SERVING SENSITIVE ELECTRONIC EQUIPMENT (DATA RACKS) OR COMPUTERS, EMERGENCY SWITCHBOARDS AND PANELBOARDS, LIGHTING PANELS SERVING EXTERIOR LIGHTING, POWER CIRCUITS OR LOW VOLTAGE (FIRE ALARM, TELECOMMUNICATIONS) EXITING THE BUILDING. PROVIDE MINIMUM 30A/3P BREAKER IN BRANCH CIRCUIT PANELBOARDS AND 60A/3P IN DISTRIBUTION PANELBOARDS OR SWITCHBOARDS, UNLESS NOTED OTHERWISE, OR PER THE SPD MANUFACTURER'S RECOMMENDATIONS FOR SURGE PROTECTION DEVICE.

ELECTRICAL EQUIPMENT (CONTINUED)

9. PROVIDE ARC ENERGY REDUCING MAINTENANCE SWITCH FOR ANY BREAKER RATED (OR ABLE TO BE ADJUSTED TO) 1200A OR HIGHER UNLESS OTHER ARC ENERGY REDUCTION MEANS MEETING NEC 240.87 IS INDICATED ON DRAWINGS/SPECIFICATIONS OR OTHERWISE PROVIDED.

ELECTRICAL DEVICES OUTLET BOXES, JUNCTION BOXES

1. LIGHT SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS NOTED OTHERWISE.
2. RECEPTACLES, VOICE/DATA OUTLETS AND WALL FURNITURE FEEDS SHALL BE MOUNTED 18 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS NOTED OTHERWISE. ABOVE COUNTER RECEPTACLES SHALL BE MOUNTED 6" ABOVE BACK SPLASH TO CENTERLINE OF DEVICE, UNLESS NOTED OTHERWISE.
3. IT IS THE INTENT THAT ALL DEVICE OUTLET BOXES (POWER AND SYSTEMS) BE FLUSH MOUNTED IN WALLS, CEILINGS OR FLOORS, AND JUNCTION BOXES FLUSH MOUNTED IN WALLS, CEILINGS, OR FLOORS, OR CONCEALED ABOVE ACCESSIBLE CEILINGS, AND NOT SURFACE MOUNTED, UNLESS SPECIFICALLY NOTED ON THE CONTRACT DRAWINGS, OR UNLESS THE ARCHITECT/ENGINEER GRANTS WRITTEN PERMISSION.
4. ALL COMPONENTS OF THE ELECTRICAL SYSTEM (INCLUDE RACEWAYS, ELECTRICAL EQUIPMENT, OUTLET BOXES, JUNCTION BOXES, ETC.) LOCATED IN A HAZARDOUS (CLASSIFIED) LOCATION SHALL BE APPROVED FOR USE IN SAID LOCATION, AS DEFINED BY THE NEC, WHETHER INDICATED ON THE CONTRACT DOCUMENTS OR NOT.
5. ALL DEVICES SHALL BE MOUNTED VERTICALLY, UNLESS NOTED OTHERWISE.
6. ALL RECEPTACLES SHALL BE MOUNTED SUCH THAT THE GROUND PIN IS MOUNTED UP.
7. WHERE DEVICES ARE SHOWN IN WALLS BACK-TO-BACK ON OPPOSITE SIDES, INSTALL SO THAT THEY ARE SEPARATED BY AT LEAST 12".
8. RECEPTACLES OR JUNCTION BOXES FOR ELECTRIC WATER COOLERS AND VENDING MACHINES SHALL BE LOCATED DIRECTLY BEHIND SAID APPLIANCE, CONCEALED FROM DIRECT VIEW. RECEPTACLES AND/OR HARD WIRED EQUIPMENT CONNECTIONS SHALL BE PROTECTED BY A READILY ACCESSIBLE GFCI FEED-THRU DEVICE LOCATED IMMEDIATELY ADJACENT TO THE APPLIANCE OR BE PROTECTED BY GFCI BREAKER IN THE PANELBOARD. ALL GFCI DEVICES MUST BE READILY ACCESSIBLE PER THE NEC.
9. ALL EXTERIOR RECEPTACLES OR RECEPTACLES LOCATED IN AREAS SUBJECT TO MOISTURE (PARKING GARAGE, WASHDOWN AREAS IN KITCHEN, ETC) SHALL BE GFCI TYPE. ALL EXTERIOR RECEPTACLES SHALL WE PROVIDED WITH CAST METAL, IN-USE COVER UNLESS NOTED OTHERWISE.
10. ALL RECEPTACLES LOCATED IN KITCHENS, BATHROOMS, MECHANICAL ROOMS, JANITOR CLOSETS, ELEVATOR SHAFTS, ELEVATOR EQUIPMENT ROOMS, FOR ELEVATOR SUMP PUMP(S) OR INSTALLED WITHIN 6' OF THE INSIDE FACE OF A SINK, SHALL BE GFCI TYPE OR GFCI PROTECTED.
11. ALL RECEPTACLES LOCATED IN CHILD-CARE FACILITIES, DWELLING UNITS, HOTEL/MOTEL GUEST ROOMS, PEDIATRIC CLINICS OR PEDIATRIC CAREA AREAS, AND OTHER AREAS AS REQUIRED BY NEC AND LOCAL CODE REQUIREMENTS SHALL BE TAMPER RESISTANT.
12. WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE-RESISTIVE ASSEMBLIES, THEY SHALL BE INSTALLED WITHOUT AFFECTING THE FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
    A. ALL ELECTRICAL BOXES SHALL BE METALLIC.
    B. BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.
    C. BOX OPENING SHALL NOT EXCEED 16 SQUARE INCHES.
    D. ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY FILLED WITH JOINT COMPOUND (OR OTHER APPROVED MATERIAL).
    E. PROVIDE A WALL AROUND OUTLETS LARGER THAN 16 SQUARE INCHES. THE INTEGRITY OF THE WALL RATING SHALL BE MAINTAINED.
    F. THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
    G. OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
    H. OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.
    I. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.

RACEWAYS

1. FLEXIBLE METAL CONDUIT AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT (FMC & LFMC) SHALL NOT BE USED IN LENGTHS THAT EXCEED 6'-0" UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS THE ARCHITECT/ENGINEER GRANTS WRITTEN PERMISSION.
2. ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS, INCLUDING LOW VOLTAGE SYSTEMS, SHALL BE INSTALLED IN A COMPLETE RACEWAY SYSTEM (CONDUIT) UNLESS SPECIFICALLY NOTED OTHERWISE.
3. THE USE OF ELECTRICAL NON-METALLIC TUBING (ENT) AND LIQUIDTIGHT FLEXIBLE NON-METALLIC CONDUIT (LFNC) ARE PROHIBITED UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS THE ARCHITECT/ENGINEER OR OWNER GRANTS WRITTEN PERMISSION.
4. CONNECTIONS TO TRANSFORMERS, AHU'S, AND PUMPS SHALL BE WITH LIGUIDTIGHT, FLEXIBLE METAL CONDUIT.
5. NO PVC CONDUIT MAY BE USED INSIDE OF BUILDING UNLESS ROUTED UNDERGROUND, AND UNLESS NOTED OTHERWISE.
6. ALL CONDUIT TERMINATIONS AT TERMINAL BOARDS ARE TO HAVE GROUNDING BUSHINGS AT CONDUIT ENDS.
7. ALL CONDUITS ARE TO BE CONCEALED UNLESS IMPOSSIBLE DUE TO EXISTING CONDITIONS (I.E.,EXPOSED CEILINGS, BUILDING EXTERIOR WALL RUNS). CONCEAL ALL CONDUITS ABOVE CEILINGS OR IN WALLS AND MILLWORK. WHERE EXISTING CONDITIONS DICTATE THAT CONDUITS CANNOT BE CONCEALED, NOTIFY ARCHITECT/ENGINEER PRIOR TO INSTALLING CONDUIT FOR RESOLUTION TO ROUTING.
8. SEAL ALL PENETRATIONS AND OPENINGS MADE DURING EXECUTION OF WORK IN FIRE-RATED AND SMOKE-RATED WALLS. WALLS SHALL BE SEALED WITH UL-APPROVED PRODUCT WITH THE SAME OR GREATER RATING OF WALL PENETRATED.
9. PROVIDE ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE REQUIRED. COORDINATE LOCATIONS AND SIZES WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS, FIELD CONDITIONS AND WORK OF ALL OTHER DIVISIONS/TRADES. ALL OPENINGS ARE TO BE SEALED WATERTIGHT.
10. ALL RACEWAYS THAT TURN UP THROUGH THE SLAB OR INTO ELECTRICAL EQUIPMENT FROM UNDERGROUND SHALL BE RIGID GALVANIZED STEEL (RGS) WITH BITUMASTIC COATING FOR AT LEAST THE FINAL 18" LENGTH. THE USE OF NON-METALLIC CONDUIT ABOVE GRADE IS PROHIBITED.
11. PANEL SCHEDULES AND FLOOR PLANS MAY INDICATE DEDICATED HOMERUNS FOR EACH BRANCH CIRCUIT. BRANCH CIRCUITS MAY BE GROUPED IN A COMMON HOMERUN WHERE THE HOMERUN DOES NOT EXCEED 3 PHASE CONDUCTORS, 3 NEUTRAL CONDUCTORS, AND 1 EQUIPMENT GROUND. THE HOMERUN RACEWAY SIZE AND CONDUCTOR SIZE SHALL BE INCREASED AS NECESSARY TO COMPLY WITH THE NEC FOR 40% MAXIMUM FILL AND DERATING REQUIREMENTS.
12. PROVIDE SEAL OFF FITTINGS, APPROVED FOR SUCH USE, WHERE RACEWAYS PENETRATE BETWEEN A DRY, CONDITIONED ENVIRONMENT AND THE EXTERIOR OR OTHER WET ENVIRONMENTS AND ADDITIONAL AREAS WHERE CONDUITS PASS FROM WARM TO COLD LOCATIONS SUCH AS WALK-IN COOLERS OR FREEZERS, BOILER ROOMS, ETC.
13. PROVIDE POLYOLEFIN JET-LINE #232 (NYLON PULL STRING) IN EACH EMPTY CONDUIT WITH ENGRAVED METAL TAG INDICATING CONDUIT DESIGNATION.
14. ALL HOMERUNS SHALL BE IN 3/4" RACEWAY MINIMUM. 1/2" RACEWAY IS ACCEPTABLE FOR A SINGLE CIRCUIT FROM THE HOMERUN TO REMAINING DEVICES.
15. CONTRACTOR SHALL USE COMPRESSION FITTINGS ONLY FOR EMT CONDUIT.
16. WHERE RACEWAYS ARE INSTALLED IN SLABS, THE MINIMUM SPACING, MAXIMUM RACEWAY SIZE, AND ANY OTHER STRUCTURAL LIMITATIONS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS AND THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

CONDUCTORS

1. ALL WIRE SHALL BE SIZED AS SHOWN ON THE DRAWINGS. IF NO WIRE SIZE IS SHOWN, THEN WIRE SHALL BE #12 AWG.
2. BRANCH CIRCUITS SHALL BE INCREASED IN SIZE AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP FROM LENGTH OF CIRCUIT DUE TO FIELD ROUTING. FINAL INSTALLATION SHALL NOT EXCEED A MAXIMUM OF 3% VOLTAGE DROP FOR BRANCH CIRCUITS. REFER TO VOLTAGE DROP TABLE BELOW FOR CONDUCTOR SIZES FOR BRANCH CIRCUITS AS FOLLOWS:
    A. 120V, 20A CIRCUITS SHALL BE:
        i. #12 FROM 0-70 FT
        ii. #10 FROM 71-115FT
        iii. #8 FROM 116-180FT
    B. 277V, 20A CIRCUITS SHALL BE:
        i. #12 FROM 0-140FT
        ii. #10 FROM 141-220FT
        iii. #8 FROM 221-350FT

    ANYTHING LONGER THAN THE ABOVE SHALL BE SUBMITTED TO THE ENGINEER WITH CALCULATIONS FOR APPROVAL.
3. ALL CONDUCTORS IN CABINETS MUST BE CAREFULLY FORMED AND HARNESSED SO THAT EACH CONDUCTOR DROPS OFF DIRECTLY OPPOSITE TO TERMINAL.
4. ALL WIRE SIZES ARE BASED ON AMPACITIES FOR 60 DEG F TEMPERATURE RATING FROM 0-100A AND 75 DEG. F TEMPERATURE RATING LISTED IN NEC FOR 100A AND ABOVE.
5. ALL CONDUCTORS SHALL BE COPPER, THHN/THWN; SOLID FOR #10 AWG AND SMALLER; STRANDED FOR #8 AWG AND LARGER.
6. CONDUCTORS USED IN WET LOCATIONS, INCLUDING BUT NOT LIMITED TO UNDERGROUND CONDUITS/ DUCTBANKS AND EXTERIOR CONDUITS SHALL COMPLY WITH NEC 310.10 AND BE LISTED FOR USE IN WET LOCATIONS.
7. ALL POWER CIRCUITS HAVE BEEN DESIGNED TO MEET 2% OR LESS VOLTAGE DROP FOR FEEDERS, AND 3% OR LESS VOLTAGE DROP FOR BRANCH CIRCUITS.

IDENTIFICATION

1. PROVIDE TYPED PANEL DIRECTORIES FOR ALL NEW PANELBOARDS, AND EXISTING PANELBOARDS AFFECTED BY THIS PROJECT. DIRECTORIES SHALL REFLECT PROJECT AS- BUILT CONDITIONS FOR ALL BRANCH CIRCUITS. DIRECTORIES SHALL INCLUDE WHERE EACH PANEL IS FED FROM. ADDITIONALLY, EACH BRANCH CIRCUIT LOAD DESCRIPTION SHALL INCLUDE THE ROOM NUMBER(S) FOR EACH LOAD (I.E., RECEPTACLES-RMS 501,503). ROOM NUMBERS SHALL BE BASED ON ACTUAL ROOM SIGNAGE INSTALLED IN FIELD. COORDINATE EXACT ROOM NUMBERS WITH ARCHITECT/ENGINEER AND OWNER PRIOR TO COMPLETION OF PANELDIRECTORIES.
2. PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS ON EACH SWITCHBOARD, SWITCHGEAR, DISTRIBUTION PANEL, PANELBOARD, MOTOR CONTROL CENTER, SAFETY SWITCH, ENCLOSED CIRCUIT BREAKER, CABINET, STEP-DOWN TRANSFORMER, TRANSFER SWITCH, ETC., AND ANY OTHER MAJOR COMPONENT OF THE ELECTRICAL SYSTEM.
3. PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS FOR EACH DISTRIBUTION BREAKER OR BRANCH CIRCUIT BREAKER IN SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER DISTRIBUTION EQUIPMENT. NAME TAG SHALL INCLUDE LOAD DESCRIPTION AND ROOM NUMBER FOR EACH LOAD.
4. ARC FLASH DANGER/WARNING LABELS SHALL BE APPLIED TO SWITCHBOARD, PANELBOARDS, AND EQUIPMENT CONTROLLERS PER NEC.
5. PROVIDE LABELS ON THE INSIDE OF EACH DEVICE COVERPLATE, IDENTIFYING THE PANEL(S)/ CIRCUIT NUMBER(S) DEVICE IS CONNECTED TO.
6. PROVIDE NEATLY, HANDWRITTEN IDENTIFICATION ON THE EXTERIOR COVER OF ALL JUNCTION BOXES, PULLBOXES AND WIREWAYS, IDENTIFYING THE PANEL(S)/ CIRCUIT NUMBER(S) CONTAINED WITHIN.

IDENTIFICATION (CONTINUED)

7. PROVIDE A PERMANENT SIGN ON THE MAIN ELECTRICAL ROOM DOOR TO THE BUILDING STATING THAT THE MAIN SERVICE DISCONNECTING MEANS IS LOCATED INSIDE.
8. PROVIDE A PERMANENT LABEL ON ALL PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, MOTOR CONTROL CENTERS AND DISTRIBUTION PANELS STATING "DO NOT WORK ON EQUIPMENT WHILE ENERGIZED. LOCK-OUT TAG-OUT REQUIRED".
9. PROVIDE REQUIRED IDENTIFICATION PER ANSI STANDARDS, NEC REQUIREMENTS, AND OWNER'S PUBLISHED DESIGN STANDARDS WHERE APPLICABLE.
10. PROVIDE ENGRAVED PHENOLIC LABEL ON ALL NEW SERVICE EQUIPMENT TO INDICATE THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED. PROVIDE LABEL ON ALL EXISTING SERVICE EQUIPMENT WHEN MODIFICATIONS OCCUR THAT AFFECT THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE.

LIGHTING

1. LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.
2. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE HIGHEST QUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER.
3. VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE LIGHT FIXTURE CATALOG NUMBER. VERIFY THE DEPTH OF ALL RECESSED LIGHT FIXTURES WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ORDERING LIGHT FIXTURES. ANY DISCREPANCIES THAT WOULD CAUSE THE RECESSED LIGHT FIXTURES NOT TO FIT INTO CEILING SHALL BE REPORTED TO ARCHITECT/ENGINEER PRIOR TO ORDERING.
4. LIGHT FIXTURES RECESSED IN FIRE-RATED CEILINGS SHALL BE PROVIDED WITH APPROVED FIRE-RATED ENCLOSURE WITH A FIRE RATING EQUAL TO THAT OF THE CEILING. PROVIDE A MINIMUM OF 3" CLEARANCE FROM SIDES AND TOP OF RECESSED LIGHT FIXTURES.
5. MODIFY ALL LIGHT FIXTURE CATALOG NUMBERS AS REQUIRED TO COORDINATE WITH THE LIGHTING BRANCH CIRCUIT VOLTAGES INDICATED. COORDINATE THE CATALOG NUMBERS WITH THE EXACT FIXTURE MOUNTING AND TRIM REQUIRED BY THE CEILING IN WHICH EACH FIXTURE IS BEING INSTALLED.
6. ALL LIGHT FIXTURES SHALL BE PROVIDED COMPLETE WITH LAMPS, UNLESS OTHERWISE NOTED.
7. ALL EXIT LIGHTS, LIGHT FIXTURES INDICATED WITH UNSWITCHED CIRCUIT (NIGHTLIGHT N/L), EMERGENCY TWIN-HEAD FIXTURES WITH INTEGRAL BATTERY PACKS, AND BATTERY PACKS INTEGRAL TO LIGHT FIXTURES, SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING OR LIGHTING CONTROLS.
8. PROVIDE UL WET LABEL OR IP67 RATED LIGHT FIXTURES FOR ALL FIXTURES LOCATED OUTSIDE OR IN PARKING GARAGES, IN SHOWERS, OR OPEN STRUCTURES.
9. EXTERIOR LIGHTING BALLASTS/DRIVERS SHALL HAVE A MINMUM STARTING TEMPERATURE OF -40 DEGREE C, AND A NORMAL AMBIENT OPERATING TEMPERATURE OF 40 DEGREE C.
10. PROVIDE FUSING FOR ALL EXTERIOR LIGHT FIXTURES, OR FIXTURES IN PARKING GARAGES OR OPEN STRUCTURES.
11. PROVIDE ALL TEMPORARY NORMAL LIGHTING, EMERGENCY LIGHTING AND EXIT SIGNS REQUIRED DURING THE PROJECT CONSTRUCTION PHASE.
12. COORDINATE EXACT FOUNDATION AND/OR COMPACTING REQUIREMENTS FOR ALL POLE MOUNTED LIGHT FIXTURES WITH MANUFACTURER'S AND/OR INSTALLER'S STRUCTURAL ENGINEER. POLE BASES SHALL MEET OR EXCEED ALL WIND LOAD RATINGS, GUST FACTORS, IMPORTANCE FACTORS, ETC. REQUIRED BY NATIONAL AND/OR LOCAL CODES. SHOP DRAWINGS SHALL INCLUDE STRUCTURAL DRAWINGS FOR ALL POLE BASES, POLE, ASSEMBLY AND OVERTURN CALCULATIONS REQUIRED IN THIS PROJECT, SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE.
13. REFER TO LIGHT FIXTURE SCHEDULE FOR LIGHT FIXTURE TYPES, DESCRIPTIONS, CATALOG NUMBERS AND ADDITIONAL INFORMATION PERTINENT TO THE LIGHT FIXTURE OR INSTALLATION THEREOF.
14. COORDINATE LIGHT FIXTURE TRIM TYPE AND FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.
15. EACH LIGHTING CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL.

ADDITIONAL PROJECT REQUIREMENTS

1. IN ACCORDANCE WITH NEC 517, THE GROUNDING TERMINAL BARS OF PANELBOARDS FROM DIFFERENT BRANCHES OF POWER SERVING THE SAME PATIENT VICINITY SHALL BE BONDED TOGETHER WITH AN INSULATED, CONTINUOUS, COPPER CONDUCTOR NOT SMALLER THAN #10 AWG. CONDUCTOR CAN BE BROKEN ONLY AT PANEL GROUNDING TERMINAL BAR. CONDUCTOR SHALL BE INSTALLED IN 3/4" NON-FLEXIBLE METAL CONDUIT. THIS SHALL INCLUDE DISTRIBUTION BOARDS SERVING IMAGING ROOMS.
2. IN ACCORDANCE WITH 517, PROVIDE SEPARATION BETWEEN THE LIFE SAFETY, CRITICAL, AND OTHER BRANCHES FOR RACEWAYS & BOXES.
3. IN ACCORDANCE WITH NEC 517, PATIENT CARE AREAS SHALL BE PROVIDED WITH GROUNDING VIA EQUIPMENT GROUNDING CONDUCTOR AND REDUNDANT GROUNDING VIA CONTINUOUS LISTED METAL RACEWAY.
4. ALL BRANCH CIRCUITS SHALL BE MECHANICALLY PROTECTED BY NON-FLEXIBLE METAL RACEWAYS UNLESS OTHERWISE NOTED. BRANCH CIRCUIT RACEWAYS RUN UNDERGROUND SHALL ALSO BE COATED IN BITUMASTIC.
5. IN ACCORDANCE WITH NEC 517, USE OF MULTI-WIRE BRANCH CIRCUIT CONFIGURATIONS ARE NOT PERMITTED. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR SIZED TO MATCH THE CORRESPONDING PHASE CONDUCTORS FOR THE BRANCH CIRCUIT.
6. CONTRACTOR SHALL PERFORM A COMPLETE EQUIPOTENTIAL GROUND TEST IN ACCORDANCE WITH NFPA 99. TEST ALL METAL CONDUCTIVE SURFACES LIKELY TO BECOME ENERGIZED WITHIN ALL PATIENT CARE AREAS. TEST ALL LARGE CONDUCTIVE SURFACES LIKELY TO BECOME ENERGIZED WITHIN A VOLUME DEFINED AS 6 FOOT FROM THE PATIENT BED HORIZONTALLY OR 7 FOOT 6 INCHES VERTICALLY AS FOLLOWS:
    A. LARGE METAL SURFACES NOT LIKELY TO BE ENERGIZED, WHICH DO NOT REQUIRE TESTING:
        i. WINDOW FRAMES
        ii. DOOR FRAMES
        iii. FLOOR DRAINS
        iv. MOVEABLE METAL CABINETS
    B. VOLTAGE AND IMPEDANCE MEASUREMENTS SHALL BE TAKEN WITH RESPECT TO A REFERENCE POINT, WHICH SHALL BE ONE OF THE FOLLOWING:
        i. THE GROUND BUS OF THE PANELBOARD OR ISOLATED POWER SYSTEM PANEL SUPPLYING THE PATIENT CARE AREA.
        ii. GROUNDING POINT, IN OR NEAR THE ROOM UNDER TEST, THAT IS ELECTRICALLY REMOTE FROM THE RECETPACLES.
        iii. GROUNDING CONTACT OF A RECEPTACLE THAT IS POWERED FROM A DIFFERENT BRANCH CIRCUIT FROM THE RECEPTACLE UNDER TEST.
    C. TEST METHOD:
        i. MEASURE VOLTAGE FROM REFERENCE POINT TO CONDUCTIVE SURFACES AND ALL RECEPTACLE GROUND CONTACTS.
        ii. MEASURE IMPEDANCE BETWEEN REFERENCE POINT AND RECEPTACLE GROUND CONTACTS.
        iii. CHECK FOR PROPER POLARITY
        iv. IDENTIFY THE REFERENCE GROUND FOR EACH ROOM ON THE GROUND TEST REPORT.
    D. MAXIMUM ACCEPTABLE VALUES:
        i. VOLTAGE: 20mV
        ii. IMPEDANCE 0.1ohm
    E. EQUIPMENT:
        i. MILLIVOLT METER WITH 1kohm IMPEDANCE AND PROPER FREQUENCY RESPONSE, IN ACCORDANCE WITH NFPA 99.
        ii. POLARITY TESTER
    F. GROUND TEST REPORT:
        i. SUBMIT COMPLETE TYPED GROUND TEST REPORT
        ii MAKE COPIES AVAILABLE AT THE FINAL INSPECTION
        iii. ENSURE METER USED FOR EQUIPOTENTIAL TESTING IS ON-SITE DURING FINAL INSPECTION TO DEMONSTRATE A SAMPLING OF TEST LOCATIONS PER AUTHORITY HAVING JURISDICATION.

MEDICAL IMAGING DIAGNOSTIC/TREATMENT (RADIOLOGY) EQUIPMENT NOTES

1. VERIFY AND COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MEDICAL EQUIPMENT MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION. REFER TO EQUIPMENT MANUAL/CUT-SHEETS/VENDOR DRAWINGS, ETC. FOR ALL INSTALLATION REQUIREMENTS. THE INTENT IS FOR THE CONTRACTOR TO PROVIDE ANY AND ALL WORK REQUIRED FOR COORDINATION BASED ON THE AVAILABLE DOCUMENTATION.
2. ALL WORK SHOWN IS BASED ON INFORMATION INDICATED BY THE MEDICAL EQUIPMENT VENDOR(S) AT THE TIME OF DESIGN. ALL WORK SHALL BE COORDINATED WITH APPLICABLE VENDOR'S DOCUMENTATION. PROVIDE ALL PARTS, MATERIALS, LABOR, ETC AS REQUIRED BASED ON THE VENDOR'S DOCUMENT(S) WHETHER INDICATED ON THESE DRAWINGS OR NOT FOR A COMPLETE AND OPERATIONAL SYSTEM(S).
3. CONTRACTOR SHALL REFER TO THE MEDICAL EQUIPMENT VENDOR'S DOCUMENTATION FOR ALL REQUIRED ELECTRICAL WORK FOR THE EQUIPMENT; THE VENDOR INFORMATION IN CONJUNCTION WITH THESE DOCUMENTS SHALL BE THE BASIS OF BID.
4. THE MEDICAL EQUIPMENT VENDOR PLANS/DETAILS ARE INTENDED TO GIVE THE CONTRACTOR A GENERAL KNOWLEDGE OF THE WORK ASSOCIATED WITH THE INSTALLATION OF THE MEDICAL EQUIPMENT. IT IS NOT INTENDED TO INDICATE ALL CONNECTIONS, JUNCTION BOXES, ETC OR ANCILLARY COMPONENTS REQUIRED FOR THE INSTALLATION. ALL EQUIPMENT SHALL BE INSTALLED PER THE OWNER APPROVED MEDICAL EQUIPMENT MANUFACTURER'S INSTALLATION DOCUMENTS. INSTALLATION SHALL BE COORDINATED IN THE FIELD WITH THE EQUIPMENT MANUFACTURER. PROVIDE ALL ELECTRICAL CONNECTION(S) AS REQUIRED.
5. IT IS THE INTENTION OF THESE DRAWINGS THAT ALL WORK (LABOR, MATERIALS, ETC) REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM BE PROVIDED.
6. WHERE INDICATED ON THE VENDOR DRAWINGS AS BY "CUSTOMER/CONTRACTOR" ALL INDICATED SCOPE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. EQUIPMENT MANUFACTURER MAY SUPPLY FIXED LENGTH CABLES, WHEREBY ALL MEASUREMENTS SHALL BE DETERMINED FROM ELECTRICAL PATHWAY RUNS INDICATED ON VENDOR DRAWINGS. ANY CHANGES TO EQUIPMENT PLACEMENT OR PATHWAY ROUTINGS IN THE FIELD WILL CAUSE THE DELIVERY OF INACCURATE AND ERRONEOUS CABLE LENGTHS. THIS MAY RESULT IN ADDITIONAL COST FOR REPLACEMENT CABLES AND DELAY EQUIPMENT INSTALLATION. THE ADDITIONAL COSTS FOR REPLACEMENT CABLES WILL BE BORNE BY THE CONTRACTOR. COORDINATE PLACEMENT OF ALL EQUIPMENT WITH MEDICAL EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
8. THE MEDICAL EQUIPMENT INSTALLATION SHALL COMPLY WITH THE FOLLOWING:
    A. REDUNDANT GROUNDING FOR THE PATIENT CARE AREA VIA THE RACEWAY SYSTEM. THE EQUIPMENT MUST BE FASTENED TO THE RACEWAY SYSTEM OR BE BONDED TO THE RACEWAY SYSTEM BY THE USE OF FLEXIBLE METAL CONDUIT OR BONDING STRAPS.
    B. SEPARATE RACEWAYS OR CONTINUOUS BARRIERS FOR THE SEPARATION OF INTERCONNECTING CABLES PER VOLTAGE RATING AND CLASS. POWER AND CLASS 1 CIRCUIT WIRING SHALL BE TOTALLY SEPARATE FROM CLASS 2 AND 3 CIRCUIT WIRING. GROUP ANY EXPOSED CABLES VIA DEDICATED ZIPPERTUBING AND SEPARATE BY VOLTAGE AND CLASS. PROVIDE A CHART AND/OR WIRING DIAGRAM WITH MARKED CABLES TO FACILITATE VERIFICATION OF THIS REQUIREMENT. THIS CHART MUST BE DEVELOPED BY THE EQUIPMENT MANUFACTURER'S ENGINEERING DEPARTMENT. ALL WIRING SHALL BE SEPARATED IN ACCORDANCE WITH THE NEC.
9. ALL MEDICAL EQUIPMENT SHALL BE TESTED AND DOCUMENTED FOR CHASSIS LEAKAGE IN ACCORDANCE WITH NFPA 99. PROVIDE A WRITTEN REPORT, SIGNED AND DATED BY THE PERSON SUPERVISING THE TEST FOR EACH PIECE OF EQUIPMENT.
10. PROVIDE CONTROL RELAY FOR EACH RADIOLOGY "ROOM IN USE" LIGHT FIXTURE. COORDINATE INTERCONNECTION AND REQUIREMENTS WITH IMAGING VENDOR DRAWINGS.
11. BOND EACH IMAGING EQUIPMENT TO THE THE GROUND BUS OF THE NORMAL AND EMERGENCY BRANCH PANELS THAT SERVES THE ROOM VIA A DEDICATED #10 GREEN INSULATED WIRE FOR EACH PANEL. COORDINATE BONDING LOCATION WITH VENDOR.
12. CONTRACTOR SHALL INCLUDE IN FINAL BID A SPECIFIC ALLOWANCE OF **$50,000** FOR EACH IMAGING ROOM IN PROJECT. THIS ALLOWANCE IS TO BE USED FOR ITEMS ABOVE AND BEYOND WHAT IS SHOWN ON THESE DRAWINGS.

WHERE THERE IS A DISCREPANCY BETWEEN ABOVE GENERAL NOTES AND SPECIFICATIONS, WHERE APPLICABLE, SPECIFICATIONS SHALL BE FOLLOWED

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25 APR 25	ISSUE FOR PERMIT	LS	TM

Revisions

Date
02/03/25

Project No.
2024509.00

Sheet Title
ELECTRICAL GENERAL NOTES

Sheet No.
E-002

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NAME: 6ADBA (EXISTING)

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
DIST. / PHASE / WIRES: 480Y/277V / 3 / 4
MAX. HEIGHT BUSING: YES
K.A.I.C. RATING:
MAINS TYPE: MCB
FEED THRU: YES
RATING: 225 A

KN	CKT	CIRCUIT DESCRIPTION	TRIP(A)	P	A (KVA)		B (KVA)		C (KVA)		P	TRIP(A)	CIRCUIT DESCRIPTION	CKT	KN
1	1	ANGIO 8A006	125	3	27.778	0.000					1	20	EXISTING	2	
	3						27.778	0.000			1	20	EXISTING	4	
	5								27.778	0.000	1	20	EXISTING	6	
	7	EXISTING	20	1	0.000	0.000					1	20	EXISTING	8	
	9	EXISTING	20	1			0.000	0.000			1	20	EXISTING	10	
	11	EXISTING	20	1					0.000	0.000	1	20	EXISTING	12	
	13	EXISTING	20	1	0.000	0.000					1	20	EXISTING	14	
	15	EXISTING	20	1			0.000	0.000			1	20	EXISTING	16	
	17	EXISTING	20	1					0.000	0.000	1	20	EXISTING	18	
	19	EXISTING	20	1	0.000	0.000					1	20	EXISTING	20	
	21	EXISTING	20	1			0.000	0.000			1	20	EXISTING	22	
	23	EXISTING	20	1					0.000	0.000	1	20	EXISTING	24	
	25	EXISTING	20	1	0.000	0.000					1	20	EXISTING	26	
	27	EXISTING	20	1			0.000	0.000			1	20	EXISTING	28	
	29	EXISTING	20	1					0.000	0.000	1	20	EXISTING	30	
	31	EXISTING	20	1	0.000	0.000					1	20	EXISTING	32	
	33	EXISTING	20	1			0.000	0.000			1	20	EXISTING	34	
	35	EXISTING	20	1					0.000	0.000	1	20	EXISTING	36	
	37	EXISTING	20	1	0.000	0.000					1	20	EXISTING	38	
	39	EXISTING	20	1			0.000	0.000			1	20	EXISTING	40	
	41	EXISTING	20	1					0.000	0.000	1	20	EXISTING	42	

	A (KVA)	B (KVA)	C (KVA)
CONNECTED PHASE LOAD (KVA)	27.778	27.778	27.778
CONNECTED PHASE AMPS (A)	100.280	100.280	100.280

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
MOTORS	83333 VA	125.00%	104166 VA

PANEL TOTALS

TOTAL CONNECTED LOAD (KVA): 83.333
TOTAL DEMAND LOAD (KVA): 104.166
TOTAL DEMAND CURRENT (A): 125

KEYNOTES (KN):

1. UPS INPUT BREAKER W/ SHUNT TRIP. SEE PHILIPS DRAWINGS FOR MORE DETAIL.
2. BREAKER IS SHOWN FOR DESIGN INTENT AND LOAD CALCS ONLY. LOAD IS A 1 FOR 1 REPLACEMENT. NO ADDITIONAL LOAD IS BEING ADDED TO THIS PANEL.

NAME: 8ACBD (EXISTING)

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
DIST. / PHASE / WIRES: 208Y/120V / 3 / 4
MAX. HEIGHT BUSING: YES
K.A.I.C. RATING: 65
MAINS TYPE: MCB
FEED THRU: YES
RATING: 225 A

KN	CKT	CIRCUIT DESCRIPTION	TRIP(A)	P	A (KVA)		B (KVA)		C (KVA)		P	TRIP(A)	CIRCUIT DESCRIPTION	CKT	KN
	1	REV OSMOSIS 8A086	20	1	0.300	0.180					1	20	RECEPTACLE 8A006	2	
	3	DIALYSIS 8A083	20	1			1.000	0.180			1	20	RECEPTACLE 8A006	4	
	5	DIALYSIS 8A086	20	1					1.000	0.360	1	20	RECEPTACLE 8A006	6	
	7	RECEPTACLE 8A003	20	1	0.600	0.360					1	20	RECEPTACLE 8A006	8	
	9	RECEPTACLE CT ROOM	20	1			0.600	0.360			1	20	RECEPTACLE 8A006	10	
	11	RECEPTACLE CT ROOM	20	1					0.600	0.360	1	20	RECEPTACLE 8A006	12	
	13	RECEPTACLE CT ROOM	20	1	0.600	0.600					1	20	RECEPTACLE 8A005	14	
	15	RECEPTACLE CT ROOM	20	1			0.600	0.600			1	20	RECEPTACLE 8A005	16	
	17	RECEPTACLE 8A003	20	1					0.600	0.800	1	20	RECEPTACLE 8A005	18	
	19	RECEPTACLE 8A002	20	1	0.600	1.620					1	20	RECEPTACLE 8A006	20	
	21	RECEPTACLE 8A002	20	1			0.800	0.720			1	20	RECEPTACLE 8A006	22	
	23	RECEPTACLE 8A002	20	1					0.600	0.360	1	20	RECEPTACLE 8A006	24	
	25	RECEPTACLE CT ROOM	20	1	0.600	0.180					1	20	CONTROL ROOM RECEPT 8A005B (AUX3)	26	
	27	RECEPTACLE 8A002, 8A003	20	1			1.000	0.180			1	20	CONTROL ROOM RECEPT 8A005B SERVICE	28	
	29	SURGICAL LIGHT TRANSFORMER	20	1					1.200	0.180	1	20	CONTROL ROOM RECEPT 8A005B (AUX1)	30	
	31	Spare	20	1	0.000	0.180					1	20	CONTROL ROOM RECEPT 8A005B	32	
	33	Spare	20	1			0.000	0.180			1	20	EQUIPMENT ROOM RECEPT 8A005D	34	
	35	VENT A 8A001	20	1					0.800	0.528	1	15	FCU-1	36	
	37	VENT B 8A001	20	1	0.800	0.000					1	20	Spare	38	
	39	VENT 8A036	20	1			0.800	0.000			1	20	Spare	40	
	41	Spare	20	1					0.000	0.639	1	20	LIGHTING 8A006	42	

	A (KVA)	B (KVA)	C (KVA)
CONNECTED PHASE LOAD (KVA)	6.620	7.020	8.027
CONNECTED PHASE AMPS (A)	55.167	59.013	67.407

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
EQUIPMENT	1200 VA	100.00%	1200 VA
LIGHTING	639 VA	100.00%	639 VA
RECEPTACLE	5400 VA	100.00%	5400 VA
Spare	14428 VA	100.00%	14428 VA

PANEL TOTALS

TOTAL CONNECTED LOAD (KVA): 21.667
TOTAL DEMAND LOAD (KVA): 21.667
TOTAL DEMAND CURRENT (A): 60

KEYNOTES (KN):

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER / MODEL	LAMP SOURCE	FIXTURE WATTAGE	FIXTURE W / LF	COMMENTS
A1	2'x2' RECESSED LED, 3400 LUMENS, 4000K	METALUX 22CZ-LD5-34-S-UNV-L940-CD1	LED	24.30 W		
D1	6" ROUND DOWNLIGHT, 2000 LUMENS, 4000K	PORTFOLIO LD6C-20-9040-D010-(trim)	LED	22.63 W		TRIM TO BE DETERMINED BY ARCHITECT
L1	2' LINEAR RECESSED LED	FOCAL POINT FSM6L-FL-375LF-940K-1C-UNV-XX-WH-2FT	LED	9.10 W	4.55 W	
L2	16'x4" LINEAR RECESSED LED, 575 LUMENS/FT, 0-10V DIMMING, 80 CRI	NEO-RAY S124RDR-S-575D-840-ETG-16F0-1-U-DD-F-W	LED	76.80 W	4.80 W	CONTINUOUS LIGHT FIXTURE COMBINED WITH L3. COORDINATE AS NEEDED.
STD						
X1	EXIT SIGN	EMERGI-LITE LX1NRMUA-C	LED	1.40 W	[redacted]	
X-RAY IN USE	EDIT ME	EDIT ME	EDIT ME	[redacted]	[redacted]	EDIT ME

RANDALL
PAULSON
architects
Roswell . Nashua

NO. PE044777
TAWAN C. MARTIN
04/25/25

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

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Revisions

Date 02/03/25
Project No. 2024509.00

Sheet Title
ELECTRICAL SCHEDULES

Sheet No.
E-003

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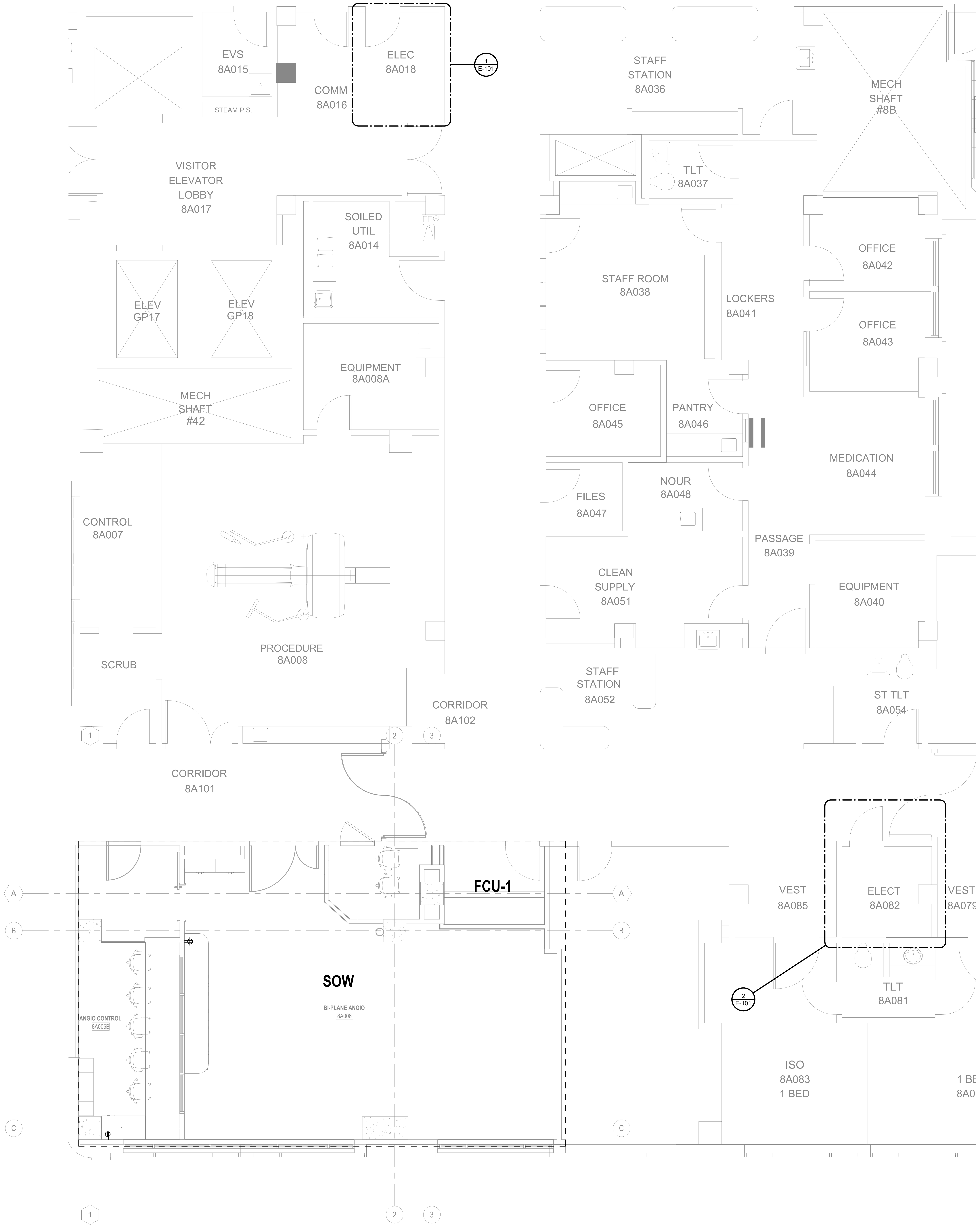
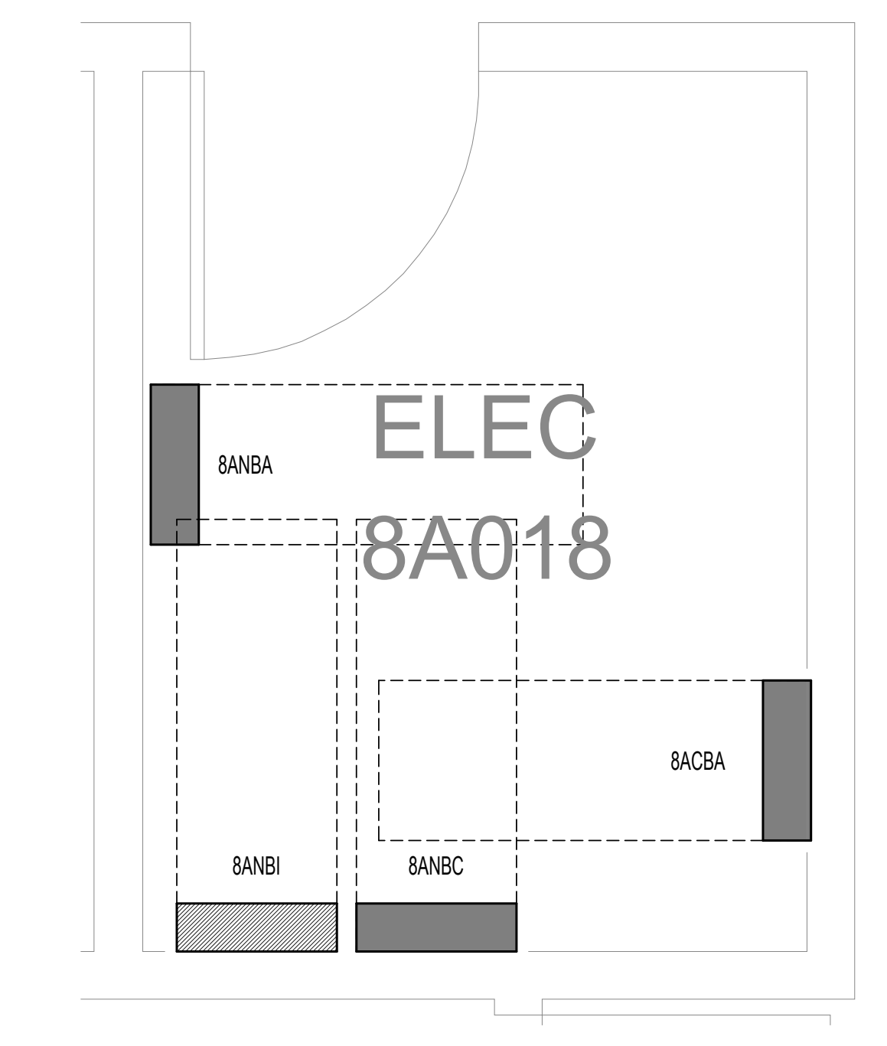
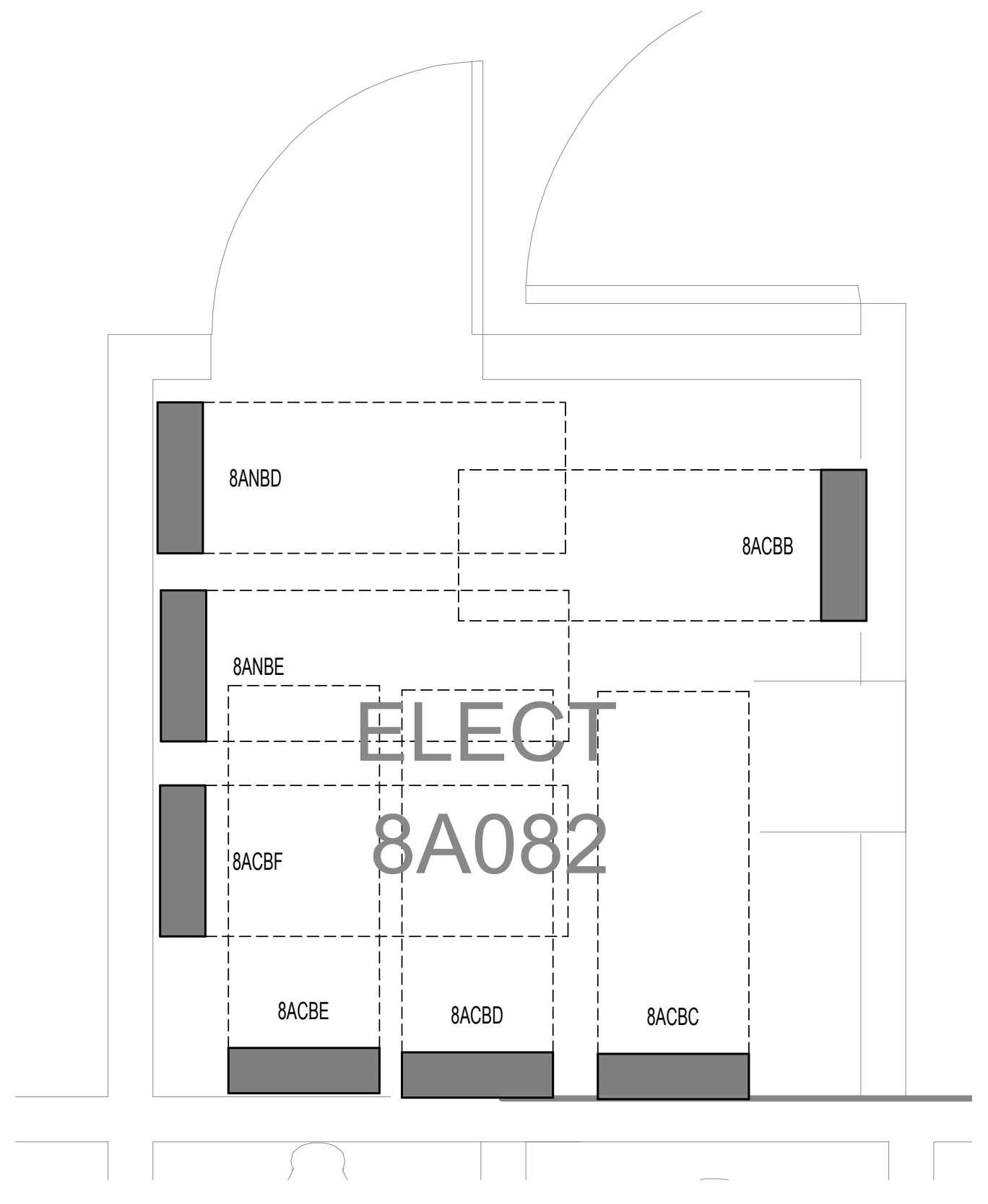

EVS
8A015
STEAM P.S.
COMM
8A016
ELEC
8A018
1
E-101
STAFF
STATION
8A036
MECH
SHAFT
#8B
VISITOR
ELEVATOR
LOBBY
8A017
TLT
8A037
SOILED
UTIL
8A014
STAFF ROOM
8A038
LOCKERS
8A041
OFFICE
8A042
OFFICE
8A043
ELEV
GP17
ELEV
GP18
EQUIPMENT
8A008A
MECH
SHAFT
#42
OFFICE
8A045
PANTRY
8A046
MEDICATION
8A044
FILES
8A047
NOUR
8A048
CONTROL
8A007
PASSAGE
8A039
CLEAN
SUPPLY
8A051
EQUIPMENT
8A040
PROCEDURE
8A008
SCRUB
STAFF
STATION
8A052
ST TLT
8A054
CORRIDOR
8A102
1
2
3
CORRIDOR
8A101
FCU-1
A
B
C
SOW
BI-PLANE ANGIO
8A006
ANGIO CONTROL
8A005B
VEST
8A085
ELECT
8A082
VEST
8A079
2
E-101
TLT
8A081
ISO
8A083
1 BED
1 BE
8A0

3 OVERALL FLOOR PLAN
1/4" = 1'-0"


ELEC
8A018
8ANBA
8ACBA
8ANBI
8ANBC

1 ELEC ROOM 8A018
1/2" = 1'-0"


8ANBD
8ACBB
8ANBE
ELECT
8A082
8ACBF
8ACBE
8ACBD
8ACBC

2 ELEC ROOM 8A082
1/2" = 1'-0"

RANDALL
PAULSON
architects
Roswell . Nashua

TAWAN C. MARTIN
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Sheet Title
ELECTRICAL OVERALL PLANS

Sheet No.
E-101

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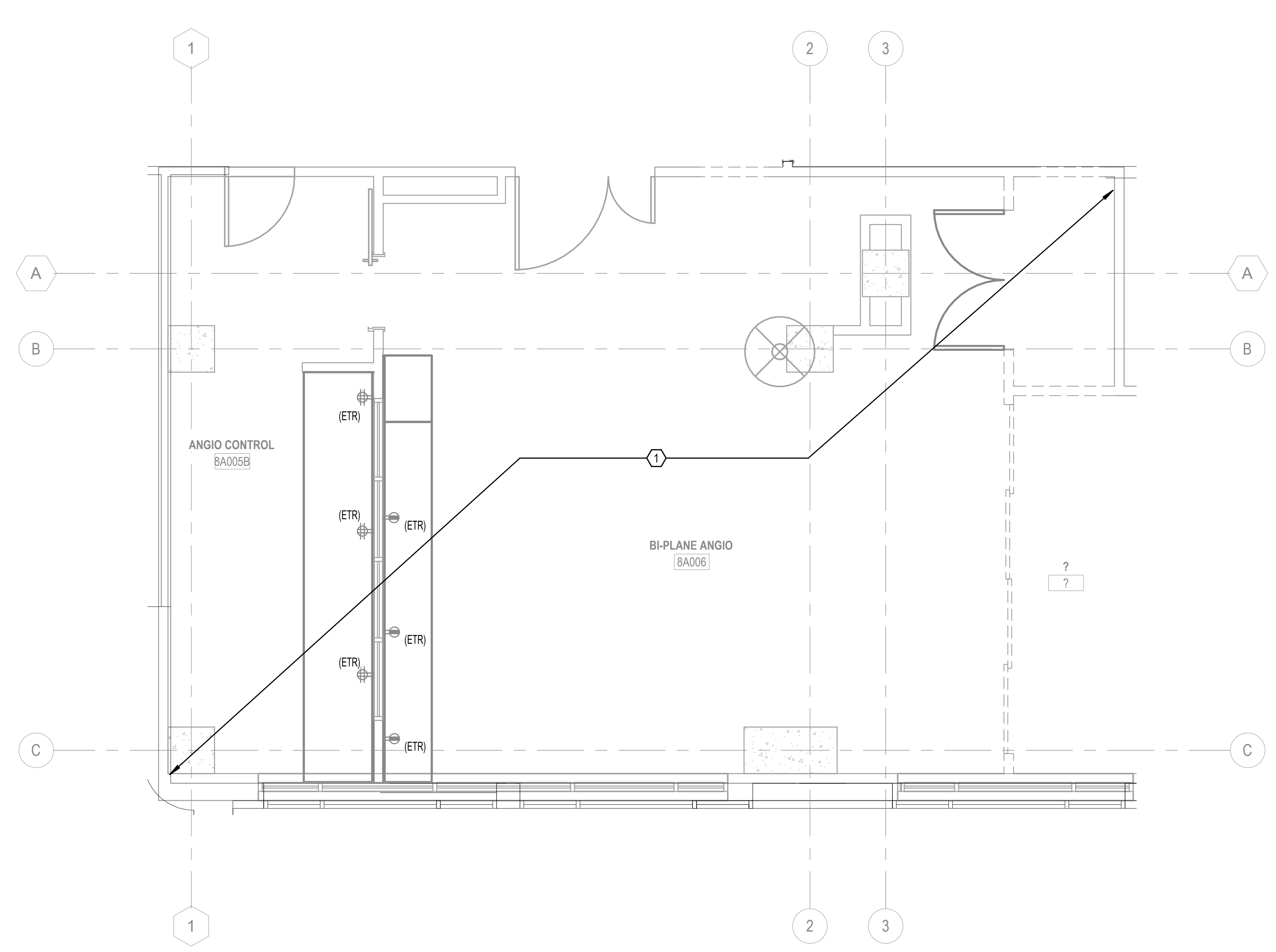
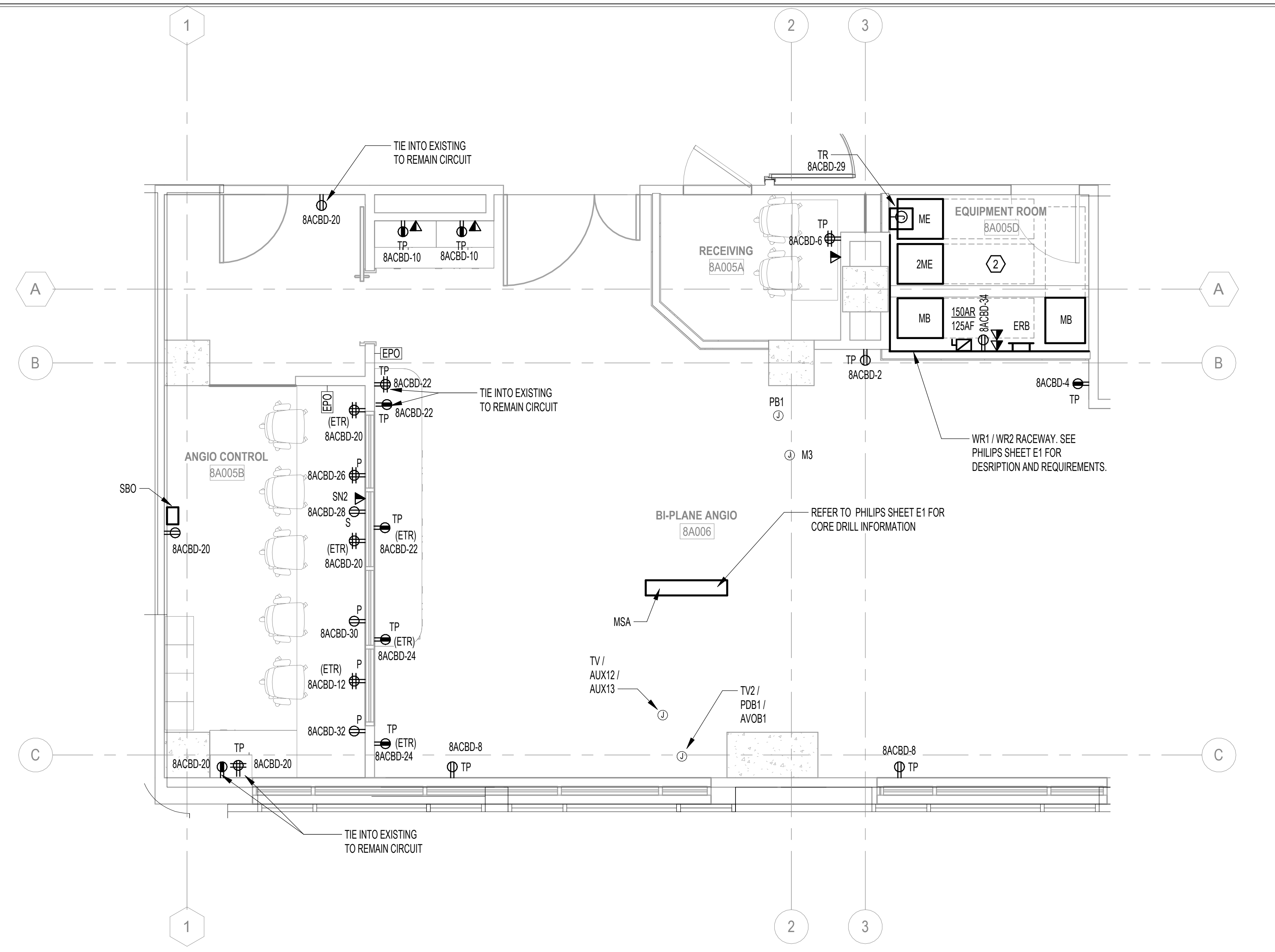

1
2
3
A
B
C
ANGIO CONTROL
8A005B
BI-PLANE ANGIO
8A006
(ETR)
1
?

3
E-102

ELECTRICAL DEMOLITION PLAN

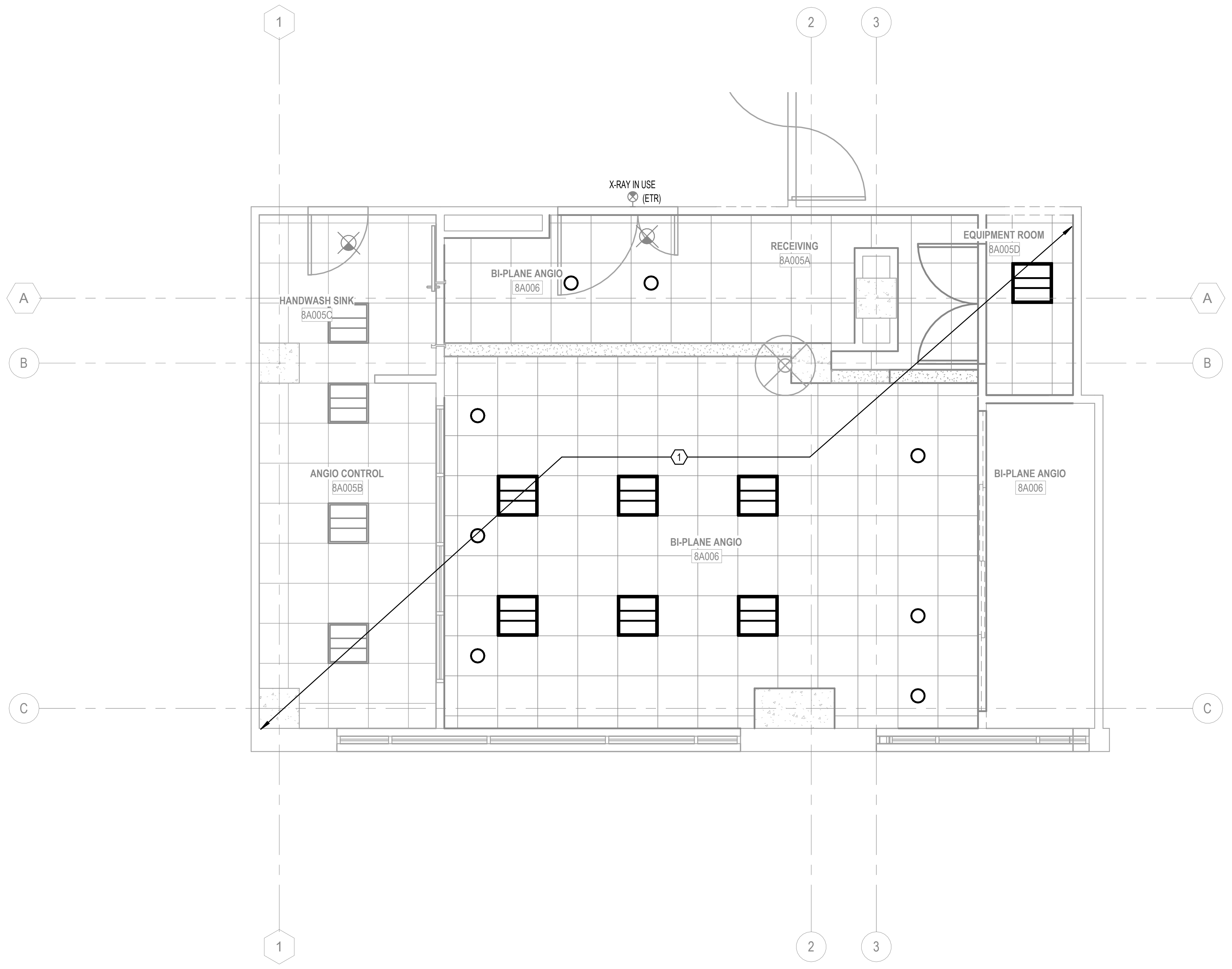
1/4" = 1'-0"


1
2
3
A
B
C
TIE INTO EXISTING TO REMAIN CIRCUIT
8ACBD-20
TP
8ACBD-10
RECEIVING
8A005A
TR
8ACBD-29
TP
8ACBD-6
EQUIPMENT ROOM
8A005D
ME
2ME
2
MB
150AR
125AF
8ACBD-34
ERB
TP
8ACBD-2
8ACBD-4
PB1
M3
WR1 / WR2 RACEWAY. SEE PHILIPS SHEET E1 FOR DESRIPTION AND REQUIREMENTS.
EPO
8ACBD-22
(ETR)
ANGIO CONTROL
8A005B
8ACBD-26
SN2
8ACBD-28
S
P
SBO
8ACBD-30
8ACBD-12
8ACBD-32
8ACBD-24
BI-PLANE ANGIO
8A006
REFER TO PHILIPS SHEET E1 FOR CORE DRILL INFORMATION
MSA
TV / AUX12 / AUX13
TV2 / PDB1 / AVOB1
8ACBD-8

1
E-102

ELECTRICAL PLAN

1/4" = 1'-0"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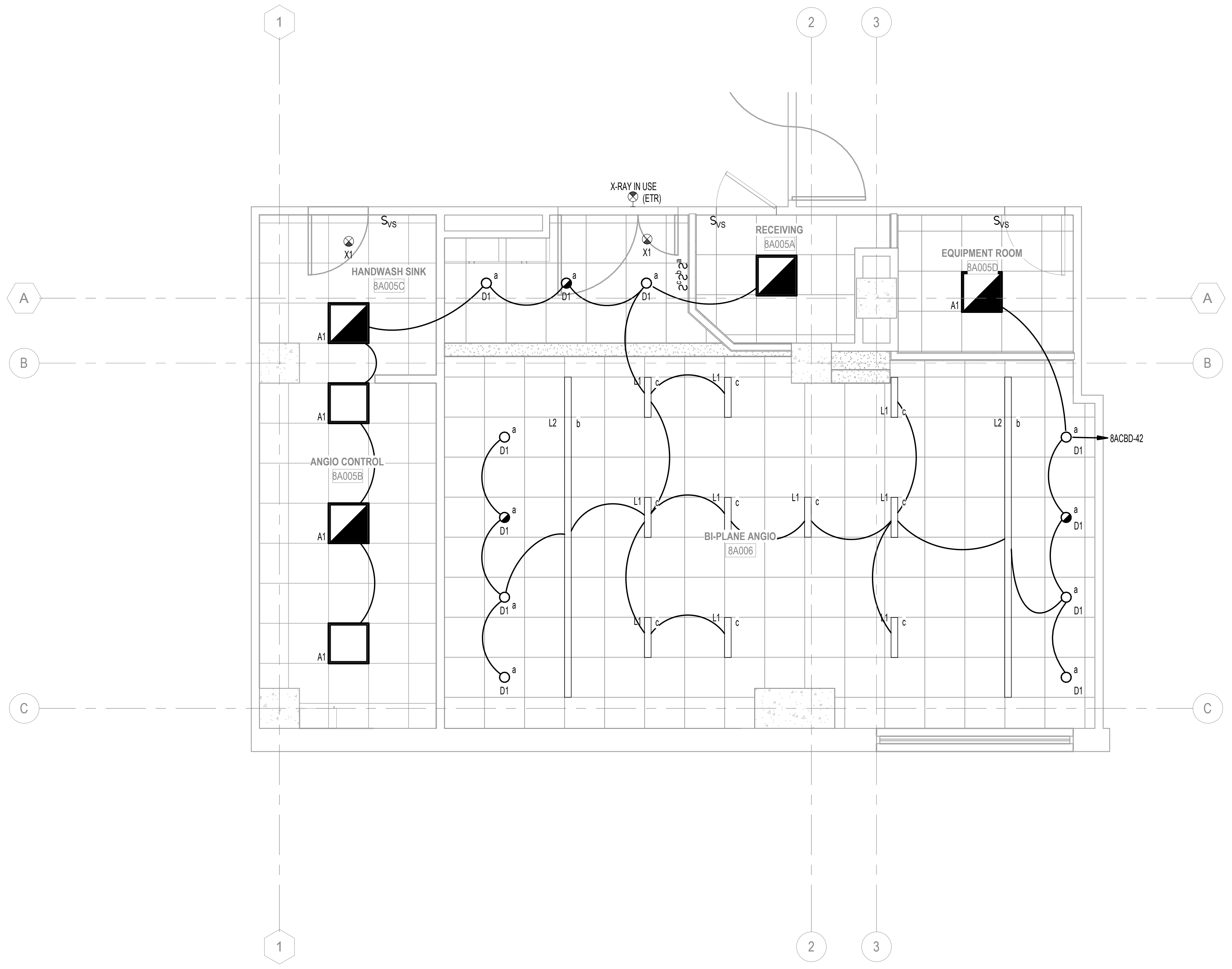
X-RAY IN USE
(ETR)
BI-PLANE ANGIO
8A006
RECEIVING
8A005A
EQUIPMENT ROOM
8A005D
HANDWASH SINK
8A005C
ANGIO CONTROL
8A005B
BI-PLANE ANGIO
8A006
BI-PLANE ANGIO
8A006
1

4
E-102

LIGHTING DEMOLITION PLAN

1/4" = 1'-0"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(ETR)
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HANDWASH SINK
8A005C
RECEIVING
8A005A
EQUIPMENT ROOM
8A005D
A1
D1
a
b
c
L1
L2
ANGIO CONTROL
8A005B
BI-PLANE ANGIO
8A006
8ACBD-42

2
E-102

LIGHTING PLAN

1/4" = 1'-0"

GENERAL NOTES:

1. ALL FACEPLATES SHALL BE STAINLESS STEEL AND ENGRAVED WITH CIRCUIT INFORMATION.
2. CONTRACTOR SHALL CROSS REFERENCE PHILIPS DRAWING SET WITH ELECTRICAL DRAWING SET FOR ELECTRICAL DETAILS, CONDUIT QTY AND SIZES, PENETRATIONS AND ROUTING.
3. IF THERE IS A DISCREPANCY BETWEEN ELECTRICAL AND PHILIPS DRAWINGS, IT SHALL IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGN TEAM.
4. REFER TO PHILIPS ED DRAWING FOR EQUIPMENT ORDERING INFORMATION, ELECTRICAL COMPONENTS, AND RISER DIAGRAM.
5. SEE PANEL SCHEDULES FOR ELECTRICAL CIRCUITING.
6. CONTRACTOR SHALL PURCHASE AND INSTALL A 480V, 3 PHASE, TYPE D 80A CIRCUIT BREAKER WITH LONG TIME DELAY AND SHUNT TRIP. SEE ITEM CB ON PHILIPS SHEET E1.
7. CONTRACTOR SHALL PURCHASE AND INSTALL UL 924 DEVICE(S) FOR LIGHTS LISTED AS EMERGENCY. (SHADED) DESIGN INTENT IS FOR THESE FIXTURES TO OPERATE WITH NORMAL LIGHT SWITCH AND AUTOMATICALLY COME ON TO FULL BRIGHTNESS IN THE EVENT OF LOSS OF POWER TO THE NORMAL LIGHTING CIRCUIT.

KEYNOTES

1. DEMOLISH EXISTING LIGHTING AND RECEPTACLES, UON. COIL POWER CABLES BACK TO NEAREST JUNCTION BOX. EXISTING POWER TO BE REUSED.
2. ROUTE CONDUIT FROM EQUIPMENT TO X-RAY BENEATH THE FLOOR. REFER TO PHILIPS DRAWING SET FOR ADDITIONAL INFORMATION AND DIMENSIONS.

RANDALL
PAULSON
architects
Roswell . Nashua

GEORGIA
REGISTERED
No. PE044777
PROFESSIONAL
ENGINEER
TAWAN C. MARTIN
04/25/25

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

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Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	LS	TM
25 APR 25	ISSUE FOR PERMIT	LS	TM

Revisions		

Date
02/03/25

Project No.
2024509.00

Sheet Title
ELECTRICAL ENLARGED PLANS

TLC ENGINEERING SOLUTIONS®
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4360 Chamblee Dunwoody Rd.
Suite 210
Atlanta, GA 30341
P 770.451.6757
COA 15
www.tlc-engineers.com
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THINK. LISTEN. CREATE.

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E-102

■ Released for Construction
☐ Not Released for Construction

SYSTEM IDENTIFICAITON CHART		
SYSTEM	COLOR	COLOR NUMBER
COMPRESSED/INSTRUMENT AIR	BLUE	0,0,255
STORM DRAIN	PURPLE	128,0,128
MEDICAL GAS	PURPLE	255,85,255
DOMESTIC COLD WATER	BLUE	0,0,255
DOMESTIC HOT WATER RETURN	PINK	255,85,85
DOMESTIC HOT WATER SUPPLY	BLUE	173,216,230
NATURAL GAS	YELLOW	255,255,0
SANITARY	ORANGE	170,85,0
SANITARY VENT	GREEN	0,128,0
FIRE PROTECTION	RED	255,0,0
UNKNOWN PIPE OR DUCT	GRAY	127,127,127

NOTES:
1. WHERE A NEW OR EXISTING PIPE OR DUCT PENETRATES THE FLOOR SLAB, CEILING SLAB, OR A SHAFT WALL PAINT THE FIRST 18" SUCH THAT THE COLOR IS VISIBLE ON ALL SIDES.
2. MED GAS PIPING SHALL NOT BE PAINTED PER NFPA 99. INTALL INSULATION OR JACKETING AROUND THE PIPING AND PAINT THE INSULATION PER THAT ATBLE.
3. PAINT SHALL NOT REPLACE THE NEED FOR OTHER LABELING TYPES. PAINT SHALL NOT OBSCURE OTHER LABELS.

GRADY PLUMBING COLOR CHART
No Scale
1

PLUMBING SPECIFICATIONS

1.00 - GENERAL PROVISIONS

1.01 PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERATING PLUMBING SYSTEM.

1.02 CODES AND STANDARDS: ALL PLUMBING WORK SHALL BE IN STRICT COMPLIANCE WITH THE 2017 FLORIDA PLUMBING CODE AND ALL LOCAL CODES HAVING JURISDICTION.

1.03 ALL PLUMBING WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK.

1.04 CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE FABRICATION OR INSTALLATION. OFFSETS AND/OR TRANSITIONS REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL COST. CONTRACTOR SHALL COORDINATE AND INSTALL HIS WORK IN A TIMELY MANNER TO PREVENT DELAYS IN THE CONSTRUCTION.

1.05 CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE DAMAGED EQUIPMENT AND/OR MATERIAL.

1.06 PROVIDE ALL MATERIALS REQUIRED TO PROPERLY SUPPORT ALL PIPING ANDEQUIPMENT. PIPE HANGERS SHALL BE ADJUSTABLE TYPE AND BE SPACED IN ACCORDANCE WITH THE FLORIDA PLUMBING CODE. PROVIDED PLASTIC COATED RING ON HANGERS FOR COPPER PIPING TO PROVIDE DIELECTRIC ISOLATION.

1.07 PROVIDE DIELECTRIC UNIONS OR FLANGES BETWEEN COPPER AND STEEL PIPING AND BETWEEN BRASSWARE AND STEEL. DO NOT USE STEEL AND COPPER PIPING IN THE SAME SYSTEM WITHOUT SUCH ISOLATION.

1.08 PROVIDE REDUCING FITTINGS (REDUCING BUSHINGS SHALL NOT BE USED) WHERE CHANGES IN PIPE SIZES OCCUR.

1.09 THIS CONTRACTOR SHALL SUPPLY AND INSTALL ALL SERVICES THROUGHOUT THE BUILDING AND MAKE CONNECTION TO SITE UTILITIES APPROXIMATELY 5'-0" OUTSIDE THE BUILDING. CONTRACTOR SHALL SUPPLY AND INSTALL FIXTURES, FITTINGS, VALVING AND TRIM AND MAKE READY FOR USE ALL FIXTURES, EQUIPMENT, ETC.

1.10 SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.

2.00 - BASIC MATERIALS AND METHODS

2.01 DOMESTIC WATER - ABOVEGROUND WATER PIPE AND FITTINGS - TYPE "L" COPPER.

2.02 PROVIDE UNIONS OR FLANGES IN ALL DOMESTIC WATER SERVICE LINES AT EACH PIECE OF EQUIPMENT, SPECIALTY VALVES OR AT OTHER LOCATIONS REQUIRED FOR READY DISCONNECT.

2.03 WATER HAMMER ARRESTORS SHALL BE INSTALLED AT THE LOCATIONS ON THE PLANS AND IN ACCORDANCE WITH PDI STANDARD WH-201. PRODUCTS SHALL BE EQUAL TO THOSE MANUFACTURED BY PRECISION PLUMBING PRODUCTS OR SIOUX CHIEF.

2.04 VALVES: PROVIDE VALVES TO ISOLATE EACH RISER, BRANCH LINE AND PIECE OF EQUIPMENT.

2.05 PROVIDE PRESSURE REDUCING VALVE AND AIR GAP CONNECTION AT DISHWASHER AS REQUIRED BY CODE AND ACCORDING TO MANUFACTURER.

2.06 PROVIDE INLINE WATER FILTER AT COFFEE MAKER AND ICE MAKER TO REMOVE MATERIALS, TASTE AND ODOR - "EVERPURE OR "SYSTEMS IV".

2.07 SANITARY WASTE (NON-PRESSURE), SANITARY VENT AND STORM PIPING - ABOVE GROUND - NO-HUB CAST IRON SOIL PIPE AND FITTINGS PER CISPI 301 WITH HEAVY DUTY SHIELDED STAINLESS STEEL COUPLINGS.

2.08 CONDENSATE PIPING - DWV COPPER OR NO-HUB CAST IRON SOIL PIPE AND FITTINGS PER CISPI 301 WITH HEAVY DUTY SHIELDED STAINLESS STEEL COUPLINGS.

2.09 INSTALL GRAVITY LINES SLOPED AT 1/8" PER FOOT FOR PIPE 3" AND LARGER AND 1/4" PER FOOT FOR PIPE SMALLER THAT 3". VERIFY INVERT ELEVATION WITH EXISTING PIPING PRIOR TO ANY PIPE BEING INSTALLED.

2.10 PROVIDE AND PROPERLY LOCATE HANGERS TO ADEQUATELY SUPPORT PIPING. ARRANGE HANGERS TO PERMIT EXPANSION AND CONTRACTION. DO NOT HANG PIPING FROM FIRE OR SMOKE WALLS. PROVIDE PIPE HANGERS AT EACH VALVE, STRAINER, AND OTHER PIPING ACCESSORY, AND AT EACH CHANGE OR DIRECTION.

2.11 THE SIZE OF HANGERS FOR NON-INSULATED PIPES SHALL BE SUITABLE FOR THE PIPE SIZE TO BE SUPPORTED. FOR INSULATED PIPING, THE SIZE OF THE HANGER SHALL BE SUITABLE FOR THE PIPE SIZE, PLUS THE INSULATION AND INSULATION SHIELD.

2.12 SPACING: LOCATE PIPE SUPPORTS AS INDICATED IN THE FOLLOWING TABLE:

HORIZONTAL PIPE HANGER SCHEDULE		
MATERIAL	PIPE SIZE	HANGER SPACING
COPPER TUBING	UP TO 1 1/4 INCH 1 1/2 INCH AND ABOVE	6 FOOT CENTERS 10 FOOT CENTERS
CAST IRON PIPE	ALL	5 FOOT CENTERS

3.00 - PLUMBING FIXTURES AND TRIM

3.01 ALL PLUMBING FIXTURES SHALL BE "FIRST QUALITY" AS DEFINED AND SET FORTH IN COMMERCIAL STANDARD CS77-28 AS PROMULGATED BY THE U.S. DEPARTMENT OF COMMERCE.

3.02 ALL FIXTURES ARE TO BE WHITE VITREOUS CHINA UNLESS OTHERWISE SPECIFICALLY NOTED.
FIXTURES AND FITTINGS PROPOSED SHALL BE FROM ONE MANUFACTURER AND OF SIMILAR CHARACTER IN ANY ROOM OR LOCATION. ESCUTCHEONS, HANDLES, ETC., ON THE DIFFERENT FIXTURES SHALL BE OF THE SAME DESIGN.

3.03 PROVIDE FIXTURE CARRIERS AS RECOMMENDED BY FIXTURE MANUFACTURER AND/OR CONSTRUCTION METHOD.

3.04 PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

3.05 FLOOR DRAIN TRAP SEALS SHALL HAVE AN APPROVED PRIMING DEVICE DESIGNED FOR THAT PURPOSE.

3.06 ALL CONCEALED TRAPS, PRIMERS, VALVES, CLEANOUTS, ETC. LOCATED IN TILED AREAS SHALL BE PROVIDED WITH AN ACCESS PANEL.

4.00 - INSULATION

4.01 ABOVE GROUND COLD AND HOT WATER PIPING - FIBERGLASS, 1" THICKNESS, ASJ JACKET, DOUBLE SEALING LAP JOINT, 0.24 K AT 75°F. INSULATION AND ADHESIVES INSTALLED IN RETURN AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.

4.02 ABOVE GROUND STORM PIPING - FIBERGLASS, 1/2" THICKNESS, ASJ JACKET, DOUBLE SEALING LAP JOINT, 0.24 K AT 75° F. INSULATION AND ADHESIVES INSTALLED IN RETURN AIR PLENUMS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.

4.03 ABOVEGROUND CONDENSATE PIPING SHALL BE 1/2" FLEXIBLE UNICELLULAR POLYOLEFIN FOAM AND SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50-IMCOA "IMCOLOCK".

5.00 - VALVES AND COCKS

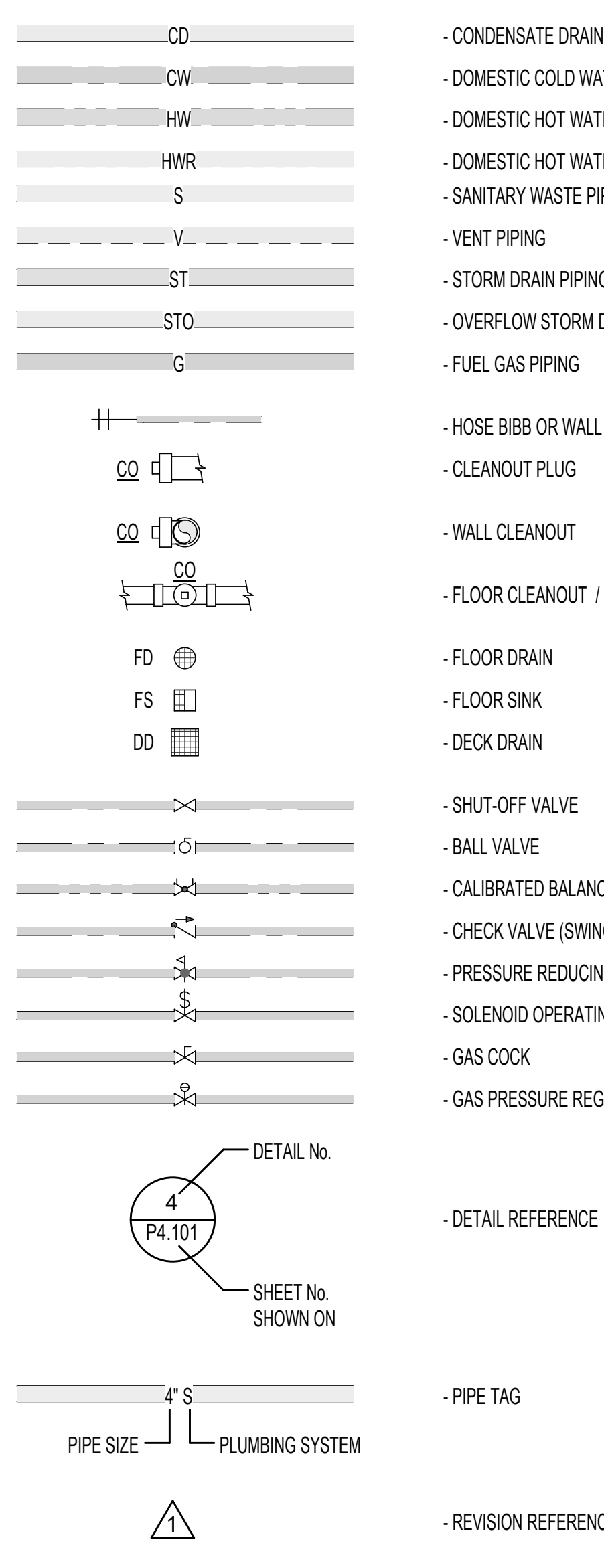
5.01 VALVES 2" AND SMALLER SHALL BE BALL VALVES, 150 PSI SWP, 400 PSI WOG. STANDARD PORT BALL, BRONZE TRIM, CAST BRONZE BODY, CHROMIUM-PLATED BRASS BALL, BRONZE NON-BLOWOUT STEM, TEFLON SEAT, DOUBLE O-RING STEM SEALS, ZINC-COATED STEEL HANDLE WITH PLASTIC COATED HAND GRIP, 90 DEGREE OPERATION FROM FULL OPEN TO TIGHT SHUT-OFF - STOCKHAM S214-BR-T-T, STOCKHAM S216-BR-T-S OR EQUAL.

5.02 CHECK VALVES, ROUGH BRASS, REGRINDING BRONZE DISC - STOCKHAM B-345; B-309 OR EQUAL.

6.00 - STERILIZATION

6.01 DOMESTIC WATER PIPING SHALL BE THOROUGHLY FLUSHED OUT AND STERILIZED IN ACCORDANCE WITH THE FLORIDA PLUMBING CODE.

PLUMBING SYMBOLS



SYMBOL	DESCRIPTION
CD	- CONDENSATE DRAIN PIPING
CW	- DOMESTIC COLD WATER PIPING
HW	- DOMESTIC HOT WATER PIPING
HWR	- DOMESTIC HOT WATER RETURN PIPING
S	- SANITARY WASTE PIPING
V	- VENT PIPING
ST	- STORM DRAIN PIPING
STO	- OVERFLOW STORM DRAIN PIPING
G	- FUEL GAS PIPING
	- HOSE BIBB OR WALL HYDRANT
CO	- CLEANOUT PLUG
CO	- WALL CLEANOUT
CO	- FLOOR CLEANOUT / EXTERIOR CLEANOUT
FD	- FLOOR DRAIN
FS	- FLOOR SINK
DD	- DECK DRAIN
	- SHUT-OFF VALVE
	- BALL VALVE
	- CALIBRATED BALANCING VALVE
	- CHECK VALVE (SWING)
	- PRESSURE REDUCING VALVE
S	- SOLENOID OPERATING VALVE
	- GAS COCK
	- GAS PRESSURE REGULATOR
4 / P4.101	- DETAIL REFERENCE
4" S	- PIPE TAG
1	- REVISION REFERENCE

PLUMBING ABBREVIATIONS

ABBREVIATION		DESCRIPTION
CA	-	COMPRESSED AIR
AFF	-	ABOVE FINISH FLOOR
AW	-	ACID WASTE
AV	-	ACID VENT
CB	-	CATCH BASIN
CD	-	CONDENSATE DRAIN
CFH	-	CUBIC FEET PER HOUR
CO	-	CLEANOUT
CONT	-	CONTINUATION
CW	-	DOMESTIC COLD WATER
DI	-	DEIONIZED WATER
DN	-	DOWN
DS	-	DOWNSPOUT
DWG	-	DRAWING
EXIST	-	EXISTING
°F	-	DEGREE FAHRENHEIT
FCO	-	FLOOR CLEANOUT
FD	-	FLOOR DRAIN
FOF	-	FUEL OIL FILL
FOG	-	FUEL OIL GAGE
FOR	-	FUEL OIL RETURN
FOS	-	FUEL OIL SUPPLY
FOV	-	FUEL OIL VENT
FS	-	FLOOR SINK
FSE#	-	FOODSERVICE EQUIPMENT NUMBER
G	-	GAS
GPH	-	GALLONS PER HOUR
GPM	-	GALLONS PER MINUTE
GR	-	KITCHEN WASTE (GREASE)
HB	-	HOSE BIBB
HD	-	HUB DRAIN
HW	-	DOMESTIC HOT WATER
HWR	-	DOMESTIC HOT WATER RECIRCULATING
IE	-	INVERT ELEVATION
IW	-	INDIRECT WASTE
KW	-	KILOWATT
LBS	-	POUNDS
MH	-	MANHOLE
NC	-	NORMALLY CLOSED
NIC	-	NOT IN CONTRACT
NO	-	NORMALLY OPEN
NP	-	NON-POTABLE WATER
NTS	-	NOT TO SCALE
OD	-	OUTSIDE DIAMETER
PRV	-	PRESSURE REDUCING VALVE
PSI	-	POUNDS PER SQUARE INCH
PVC	-	POLYVINYL CHLORIDE PIPE
RD	-	ROOF DRAIN
RPBP	-	REDUCED PRESSURE BACKFLOW PREVENTOR
SAN	-	SANITARY
SD	-	STORM DRAIN
SF	-	SQUARE FEET
SH	-	SHEET
ST	-	STORM
STO	-	OVERFLOW STORM DRAIN
SW	-	SOFT COLD WATER
V	-	VENT
VAC	-	VACUUM
VC	-	VACUUM CLEANING
VTR	-	VENT THRU ROOF
WCO	-	WALL CLEANOUT
WTR	-	WATER

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

GENERAL PRESSURE DEMOLITION NOTES

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO DEMOLITION. FIELD CONDITIONS SHALL GOVERN. FIELD VERIFY LOCATIONS OF EXISTING PIPING BEFORE DEMOLITION. PROVIDE ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT. COORDINATE WITH THE ARCHITECTURAL DRAWING FOR ITEMS NOT INDICATED. COORDINATE DEMOLITION OF EXISTING PIPING WITH NEW WORK. PIPING CONNECTING TO AREAS OUTSIDE OF RENOVATED SPACE SHALL NOT TO BE DISCONNECTED UNTIL AFTER NEW PIPING IS INSTALLED. COORDINATE SYSTEM SHUT DOWNS WITH THE FACILITY PRIOR TO DEMOLITION.
2. ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
3. ALL WATER PIPING INDICATED ON THIS DRAWING IS LOCATED IN THE CEILING SPACE OR WALL SPACES UNLESS NOTED OTHERWISE, FIELD VERIFY BEFORE CONSTRUCTION.
4. CARE MUST BE TAKEN WHEN REMOVING PIPE AROUND LOAD BEARING WALLS. THE WALL OR FOOTING BELOW IS NOT TO BE DESTROYED.
5. CUT AND PATCH CEILINGS, WALLS AND FLOOR SLAB AS REQUIRED TO FACILITATE PLUMBING RENOVATION. SEE ARCHITECTURAL DRAWINGS FOR PATCHING DETAILS.

APPLICABLE CODES

A. STATE, COUNTY, AND CITY HEALTH AND BUILDING CODES
B. NFPA 51B, 2019 EDITION
C. NFPA 70, 2017 EDITION
D. NFPA 72, 2019 EDITION
E. NFPA 90A, 2018 EDITION
F. NFPA 90B, 2018 EDITION
G. NFPA 99: STANDARD FOR HEALTHCARE FACILITIES, 2018 EDITION
H. NFPA 101, LIFE SAFETY CODE, 2018 EDITION, GEORGIA AMENDMENTS (2020)
I. IBC 2018 EDITION, WITH GEORGIA AMENDMENTS (2025)
J. IMC 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
K. IPC 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
L. IEC 2015 EDITION, WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020)
M. IFC 2018 EDITION, WITH GEORGIA AMENDMENTS (2020)
N. OTHER NFPA CODES AS REFERENCED BY STANDARD CODES.
O. ANSI A117.1-1992 ACCESSIBLE AND USABLE BUILDING AND FACILITIES.
P. THE AMERICANS WITH DISABILITIES ACT (ADA), ACCESSIBLITY GUIDELINES FOR BUILDINGS AND FACILITIES - 1991
Q. 2022 FGI GUIDELINES

GENERAL GRAVITY DEMOLITION NOTES

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO DEMOLITION. FIELD CONDITIONS SHALL GOVERN. FIELD VERIFY LOCATIONS OF EXISTING PIPING BEFORE DEMOLITION. PROVIDE ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT. COORDINATE WITH THE ARCHITECTURAL DRAWING FOR ITEMS NOT INDICATED. COORDINATE DEMOLITION OF EXISTING PIPING WITH NEW WORK. PIPING CONNECTING TO AREAS OUTSIDE OF RENOVATED SPACE SHALL NOT TO BE DISCONNECTED UNTIL AFTER NEW PIPING IS INSTALLED. COORDINATE SYSTEM SHUT DOWNS WITH THE FACILITY PRIOR TO DEMOLITION.
2. ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE TURNED OVER TO THE OWNER, OR DISPOSED OF AT THE OWNER'S DISCRETION.
3. ALL VENT PIPING INDICATED ON THIS DRAWING IS LOCATED IN THE CEILING SPACE OR WALL SPACES UNLESS NOTED OTHERWISE, FIELD VERIFY BEFORE CONSTRUCTION.
4. ALL SANITARY PIPING INDICATED ON THIS DRAWING IS LOCATED BELOW THE FLOOR SLAB OR WALL CHASE UNLESS NOTED OTHERWISE. OFFSET ALL EXISTING SANITARY AND VENT RISERS FROM FLOOR ABOVE TO WALLS ON NEW FLOOR PLAN, FIELD VERIFY EXACT LOCATION AND PROVIDE REQUIRED OFFSET TO FACILITATE OPERATION OF PLUMBING SYSTEMS TO THE FLOORS ABOVE AND BELOW.
5. CARE MUST BE TAKEN WHEN REMOVING PIPE AROUND LOAD BEARING WALLS. THE WALL OR FOOTING BELOW IS NOT TO BE DESTROYED.
6. EXISTING ROOF DRAINS AND RAIN WATER LEADER PIPING TO REMAIN UNLESS OTHERWISE NOTED. FIELD VERIFY ROUTING OF EXISTING PIPING BEFORE CONSTRUCTION BEGINS. EXISTING RAIN WATER PIPING LOCATED IN WALLS TO BE REMOVED SHALL BE REROUTED OVER HEAD TO A NEW WALL LOCATION AND RECONNECTED TO THE UNDERGROUND STORM.
7. CUT AND PATCH CEILINGS, WALLS AND FLOOR SLAB AS REQUIRED TO FACILITATE PLUMBING RENOVATION. SEE ARCHITECTURAL DRAWINGS FOR PATCHING DETAILS.
8. EXISTING BUILDING DRAINS UNDER CONCRETE SLABS AND EXISTING BUILDING SEWERS THAT SERVES THE SYSTEM SHALL BE INTERNALLY EXAMINED TO VERIFY THAT THE PIPING IS SLOPING IN THE CORRECT DIRECTION, IS NOT BROKEN, IS NOT OBSTRUCTED AND IS SIZED FOR THE DRAINAGE LOAD OF THE NEW PLUMBING DRAINAGE SYSTEM TO BE INSTALLED.

NOTES:

1. SINK HARDWARE:

TRAP - McGUIRE No. 8912, CHROME PLATED 17 GAUGE 1-1/2" X 1-1/2" BRASS P-TRAP WITH CLEANOUT. (ADA DEPTH SINKS SHALL HAVE OFFSET TAILPIECES McGUIRE No. 155WC/8902).
SUPPLIES - McGUIRE No. 2165CC, 1/2" COMPRESSION X 3/8" COMPRESSION CHROME PLATED ANGLE SUPPLY STOPS WITH CHROME PLATED 12" FLEXIBLE RISERS AND ESCUTCHEONS.

PLUMBING GENERAL NOTES

1. REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
2. THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
3. UTILITIES AND SERVICES INDICATED ARE TAKEN FROM VARIOUS OLD AND NEW SURVEYS, AS-BUILT RECORDS AND FIELD INVESTIGATIONS. UNFORSEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND BURIAL DEPTHS, AS DETERMINED DURING CONSTRUCTION, WILL BE NECESSARY.
4. FIELD VERIFY EXISTING INSTALLATIONS. MODIFY EXISTING PLUMBING SYSTEMS, WHICH ARE TO REMAIN ACTIVE, TO FACILITATE RECONNECTION AND EXTENSION OF THE NEW WORK.
5. NOTIFY OWNER AT LEAST 24 HOURS PRIOR TO INTERRUPTING EXISTING SERVICE. SCHEDULE DISCONNECTION AND TIE-INS TO MINIMIZE DISRUPTION OF SERVICES. SERVICES ARE NOT TO BE LEFT DISRUPTED DURING NON-NORMAL CONTRACTOR WORKING HOURS.
6. PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
7. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
8. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
9. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
10. SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH U/L LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
11. FLASH AND COUNTER-FLASH ROOF PENETRATIONS.
12. WHEN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL TRADES, THE ARCHITECT AND THE STRUCTURAL ENGINEER.
13. PROVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.
14. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
15. PROVIDE AUTOMATIC TRAP PRIMERS FOR FLOOR DRAIN TRAP SEALS.
16. PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
17. ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.
18. MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE.
19. PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
20. COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
21. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
22. ALL WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE FIXTURE.
23. PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.
24. ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NON-COMBUSTIBLE AND UL APPROVED FOR USE IN A RETURN AIR PLENUM SPACE. IF MATERIALS ARE NOT NON-COMBUSTIBLE IN RETURN AIR PLENUMS, THEY SHALL BE REPLACED OR WRAPPED WITH A UL LISTED FIRE RATED FIRE WRAP (I.E. FYREWRAP 0.5 PLENUM INSULATION OR APPROVED EQUAL) AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURES UL LISTED DETAILS AND RECOMMENDATIONS AT NO ADDITIONAL COST. (NOTE: REFER TO MECHAICAL DRAWINGS FOR RETURN AIR PLENUM LOCATIONS.)
25. PIPING, INSULATION, FITTINGS, MATERIALS, COVERS AND FINISHES IN RETURN AIR PLENUM SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50.

PLUMBING DRAWING INDEX

SHEET	DESCRIPTION
P-001	PLUMBING SYMBOLS, LEGEND, NOTES AND INDEX
P-101	PLUMBING PLANS

RANDALL PAULSON
architects
Roswell . Nashua

04/25/25
No. PE42711

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

architecture/interiors

INTERIOR RENOVATION

at

MARCUS STROKE AND NEUROSCIENCE ANGIO 1 REPLACEMENT

for

Grady

GRADY MEMORIAL HOSPITAL
SUITE 8-A
80 JESSE HILL, JUNIOR DRIVE
SE
ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	ZP	MM
25 APR 25	ISSUE FOR PERMIT	ZP	MM

Revisions

TLC ENGINEERING SOLUTIONS

4360 Chamblee Dunwoody Rd.
Suite 210
Atlanta, GA 30341
P 770.451.6757
COA 15
www.tlc-engineers.com
TLC No:824325
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Date: 10/07/15
Project No.: 2024509.00

Sheet Title
PLUMBING SYMBOLS, LEGEND, NOTES AND INDEX

Sheet No.
P-001

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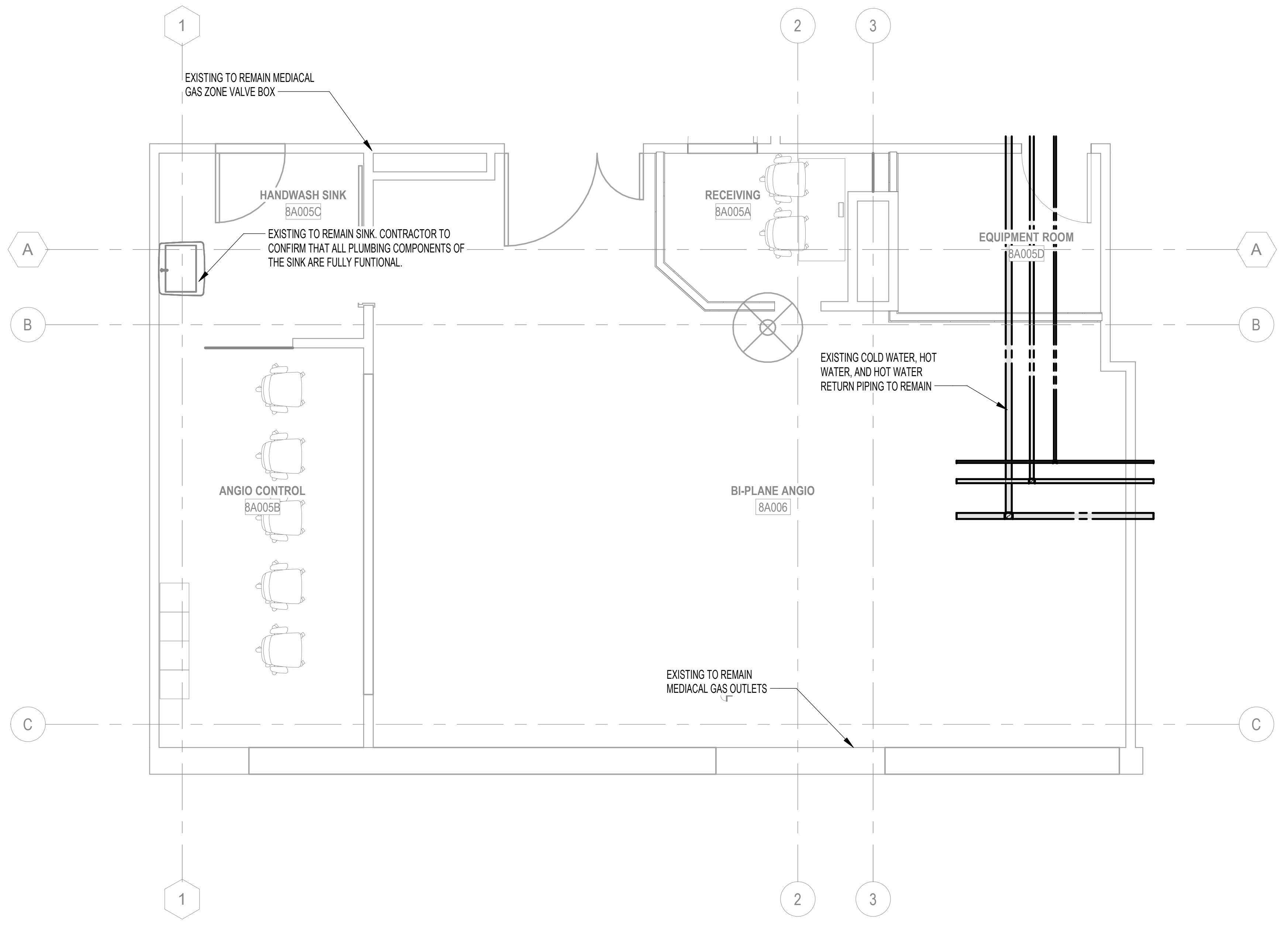
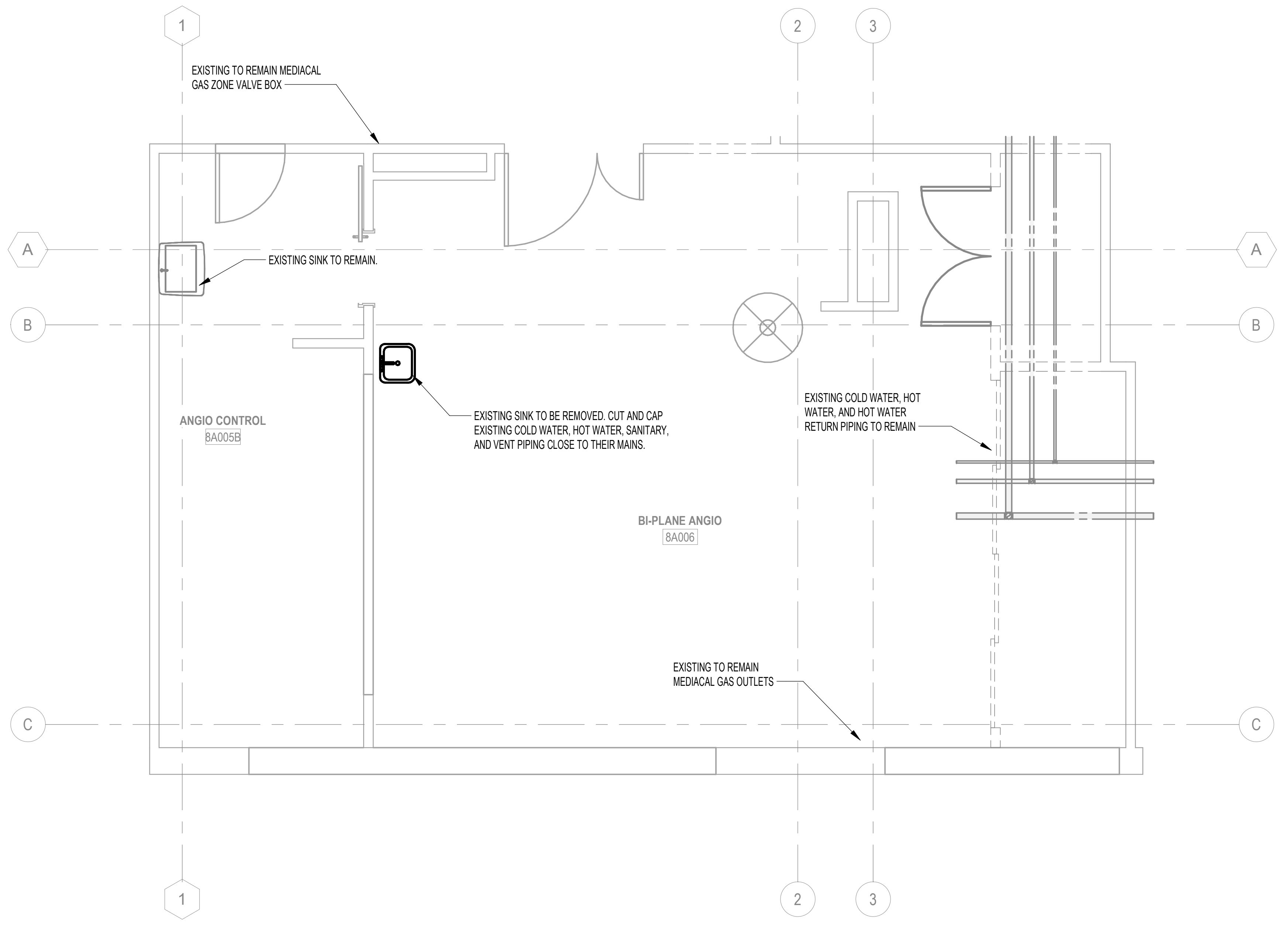

1
2
3
A
B
C
EXISTING TO REMAIN MEDIACAL GAS ZONE VALVE BOX
HANDWASH SINK
8A005C
EXISTING TO REMAIN SINK. CONTRACTOR TO CONFIRM THAT ALL PLUMBING COMPONENTS OF THE SINK ARE FULLY FUNTIONAL.
RECEIVING
8A005A
EQUIPMENT ROOM
8A005D
EXISTING COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING TO REMAIN
ANGIO CONTROL
8A005B
BI-PLANE ANGIO
8A006
EXISTING TO REMAIN MEDIACAL GAS OUTLETS

1
P-101

PLUMBING PLAN

1/4" = 1'-0"


1
2
3
A
B
C
EXISTING TO REMAIN MEDIACAL GAS ZONE VALVE BOX
EXISTING SINK TO REMAIN.
EXISTING SINK TO BE REMOVED. CUT AND CAP EXISTING COLD WATER, HOT WATER, SANITARY, AND VENT PIPING CLOSE TO THEIR MAINS.
EXISTING COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING TO REMAIN
ANGIO CONTROL
8A005B
BI-PLANE ANGIO
8A006
EXISTING TO REMAIN MEDIACAL GAS OUTLETS

2
P-101

PLUMBING DEMOLITION PLAN

1/4" = 1'-0"

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4360 Chamblee Dunwoody Rd.
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Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	ZP	MM
25 APR 25	ISSUE FOR PERMIT	ZP	MM

Revisions		

Date
02/03/25

Project No.
2024509.00

Sheet Title
PLUMBING PLANS

Sheet No.
P-101

■ Released for Construction
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PROJECT GENERAL NOTES:

1. COORDINATE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLETS, CONDUIT, ETC. ACCORDING TO THE PROJECT GENERAL CONDITIONS.
2. HORIZONTAL TELECOMMUNICATIONS/DATA CABLING SHALL BE ROUTED DIRECTLY BETWEEN COMPONENTS WITH NO JUNCTIONS OR SPLICES IN CABLING AND SHALL BE LABELED ACCORDING TO TIA-606A/B STANDARDS AND SPECIFICATIONS.
3. THE DRAWINGS INDICATE ONE ROUTING METHOD OF THE CABLING PATHWAY. CHANGES MAY BE MADE TO THE PATHWAY SYSTEM ROUTING TO ACCOMMODATE SITE CONDITIONS OR TO SIMPLIFY INSTALLATION PROVIDING THAT NOTED CONDUIT SIZE OR LARGER IS MAINTAINED AND DISTANCE LIMITATIONS LISTED BELOW ARE NOT EXCEEDED.
4. FOR INTERIOR LOW VOLTAGE CABLING, PROVIDE EMT RACEWAY OR LADDER RACK FROM LOW VOLTAGE BACKBOX TO ACCESSIBLE CEILING SPACE, WITH J-HOOK SUPPORT TO TELECOM ROOM. CABLING SHALL BE SUPPORTED AT 5'-0" MAX INTERVALS. J-HOOK PATHWAYS SHALL BE ESTABLISHED TO SUPPORT CABLING AND PREVENT CONTACT OF THE CABLING WITH BUILDING STRUCTURE AND OTHER MECHANICAL SYSTEMS AND MECHANICAL SYSTEMS MOUNTING HARDWARE.
5. ALL CABLING IN SLAB ON GRADE OR BELOW GRADE TO BE OUTSIDE PLANT - WET LOCATION RATED. OSP CABLING TO BE ROUTED IN METAL CONDUIT SYSTEM TO TELECOM ROOM. OSP CABLING NOT PERMITTED TO BE EXPOSED IN PLENUM SPACE.
6. **ALL CONDUITS TO BE 1" TRADE SIZE (UNLESS NOTED OTHERWISE)**
7. ALL CONDUIT INSTALLATION TO MEET REQUIREMENTS OF NATIONAL ELECTRIC CODE (NEC) CURRENT EDITION.
8. CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUITS SHALL BE TERMINATED WITH AN INSULATED BUSHING. PULL STRINGS WITH A MINIMUM PULL RATING OF 400 POUNDS SHALL BE PROVIDED.
9. NO CONDUIT RUN SHALL CONTAIN A SINGLE BEND GREATER THAN 90° OR AN AGGREGATE OF BENDS GREATER THAN 180° BETWEEN PULLING POINTS. NO CONDUIT RUN SHALL EXCEED 100' BETWEEN PULLING POINTS. PROVIDE JUNCTION BOXES WHERE REQUIRED TO MAINTAIN BEND AND DISTANCE REQUIREMENTS.
10. NO SECTION OF CONDUIT SHALL EXCEED 100 FEET. RUNS IN EXCESS OF 100 FEET REQUIRE A PULL BOX / HANDHOLE / VAULT.
11. PULL BOX SHALL NOT BE USED IN LIEU OF A BEND. CONDUITS MUST RUN STRAIGHT THROUGH A PULL BOX WITH THE BEND LOCATED EITHER BEFORE OR AFTER THE PULL BOX.
12. PROVIDE COVERS WITH LABELING FOR JUNCTION BOXES, BACK BOXES WITHOUT FACEPLATES, AND PULL BOXES. LABELING SHALL INCLUDE THE CABLE TYPES AND THE APPLICABLE NUMBERING SCHEME FOR EACH CABLE CONTAINED WITHIN THE BOX. REFER TO SPECIFICATIONS FOR LABELING REQUIREMENTS.
13. IN OPEN CEILINGS, NON-ACCESSIBLE CEILING SPACE, MECHANICAL SPACES, AND ELEVATOR CONTROL ROOMS, ALL SIGNAL AND LOW VOLTAGE POWER CABLE TO BE ROUTED IN EMT CONDUIT. MINIMUM SIZE SHALL BE 1". SIZE PER NEC 40% FILL REQUIREMENT.
14. ROUTE CONDUIT WITH OTHER BUILDING SERVICES AND CONCEAL WHENEVER POSSIBLE. GROUP AND RUN PARALLEL ALONG A SINGLE BUILDING COLUMN LINE, HOLD TIGHT TO STRUCTURE AND PAINT AS DIRECTED BY THE ARCHITECT. UTILIZE STRUCTURALLY CONDUIT LEAVE OUTS IN LIEU OF ROUTING BELOW STRUCTURAL BEAMS.
15. FOR IN-SLAB OR UNDERGROUND CONDUIT ENTERING A BUILDING, TRANSITION BACK TO METALLIC CONDUIT WITHIN 3 FEET OF THE ENTRY POINT.
16. HORIZONTAL TELECOMMUNICATIONS/DATA CABLING SHALL MEET THE REQUIREMENTS OF ANSI/TIA568 AND SHALL NOT EXCEED 90 METERS (290 FT) OF TOTAL CABLE DISTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF 90 METER RULE.
17. LOW VOLTAGE CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED SLEEVES FOR ROUTING OF LOW VOLTAGE CABLING. LOW VOLTAGE CONTRACTOR TO FIRE STOP ALL PENETRATIONS TO MAINTAIN RATING OF WALL. SEE DETAILS FOR EXACT REQUIREMENTS.
18. COORDINATE EXACT LOCATION OF VOICE/DATA, DATA, & TV OUTLETS WITH POWER RECEPTACLES.
19. WIRELESS ACCESS POINT FINAL QUANTITIES AND LOCATIONS TO BE DETERMINED THROUGH PREDICTIVE SURVEY ANALYSIS. SURVEY ANALYSIS SHALL BE SUBMITTED TO DESIGN TEAM FOR APPROVAL PRIOR TO DEVICE INSTALLATION.
20. COORDINATE ALL VIDEO SURVEILLANCE CAMERA LOCATIONS WITH FIELD CONDITIONS. CONTRACTOR TO VERIFY CLEAR FIELD OF VIEW AND SUBMIT RFI FOR RELOCATION DUE TO OBSTRUCTION OF VIEWS.
21. FOR ALL EXTERIOR CAMERA LOCATIONS AND CABLING ROUTED THROUGH EXTERIOR WALLS, CONTRACTOR TO PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSION DEVICES (TVSS) FOR SIGNAL AND POWER CONDUCTORS TYPICAL TO DITEK DTK-MRJPOE AT CAMERA LOCATION AND DITEK RACK MOUNT DTK-RM12POE SURGE PROTECTOR AT ASSOCIATED TELECOM CLOSET.
22. REFERENCE SECURITY CAMERA SCHEDULES FOR VIEWS AND MOUNTING REQUIREMENTS. POSITION CAMERAS AS NOTED ON DRAWINGS THEN ADJUST AND FOCUS CAMERA VIEW TO SATISFACTION OF OWNER. COORDINATE LOCATIONS OF ALL VIDEO SURVEILLANCE CAMERAS WITH BUILDING SYSTEMS IN ORDER TO ENSURE CLEAR FIELD-OF-VIEW.
23. COORDINATE COMPOSITE FIBER/COPPER CABLE LOCATIONS WITH DIVISION 27. COMPOSITE FIBER CABLING REQUIRED FOR VIDEO SURVEILLANCE CAMERAS LOCATED ON LIGHTING POLES AND AT LOCATIONS EXCEEDING 100 METERS FROM IDF/TELECOM ROOMS.
24. INTERFACE SECURITY AND ACCESS CONTROL SYSTEM POWER SUPPLIES WITH FIRE ALARM SYSTEM OUTPUTS. ALL DOORS TO RELEASE UPON FIRE ALARM SIGNAL, WHERE REQUIRED BY CODE.
25. SECURITY CONTRACTOR TO PROVIDE ALL LOCK POWER SUPPLIES AND INTERFACE TO ELECTRONIC DOOR HARDWARE FOR CONTROL.
26. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL PLANS AND SPECIFICATIONS AS WELL AS LOCAL AHJ TO MAINTAIN EGRESS REQUIREMENTS.
27. ALL CONDUITS ROUTED BELOW GRADE TO BE SCHEDULE 40 PVC AND ALL CONDUITS ROUTED ABOVE GRADE TO BE EMT.
28. ALL CONDUIT INSTALLED INDOORS AND BELOW CEILING TO BE PAINTED TO MATCH DECOR.

COMMON ABBREVIATIONS:

AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BDA	BI-DIRECTIONAL ANTENNA
BFC	BELOW FINISHED CEILING
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BOH	BACK OF HOUSE
BOS	BOTTOM OF STRUCTURE
C	CONDUIT
CAT	CATEGORY CABLE
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONARY UNIT
COL	COLUMN
CTRL	CONTROL
D	DEPTH, DEEP
DAS	DISTRIBUTED ANTENNA SYSTEM
DC	DIRECT CURRENT
DEG	DEGREES
DEMO	DEMOLITION
DIA	DIAMETER
DIM	DIMENSIONS
DIV	DIVISION
DS	DIGITAL SIGNAGE DISPLAY
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ENCL	ENCLOSURE
EMT	ELECTRICAL METALLIC TUBING
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EQUIPMENT RACK
EX	EXISTING
FA	FIRE ALARM
FB	FLOOR BOX
FLEX	FLEXIBLE
FLR	FLOOR
FO	FIBER OPTIC
FOH	FRONT OF HOUSE
FT	FEET
FV	FIELD VERIFY
GND	GROUND
GA	GAUGE
H	HEIGHT
HOR	HORIZONTAL
HZ	HERTZ
I/O	INPUT / OUTPUT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
ISO	ISOLATED
JB	JUNCTION BOX
KPD	KEYPAD
KW	KILOWATT
L	LENGTH, LEFT
L/R	LEFT / RIGHT
LAN	LOCAL AREA NETWORK
LB	POUNDS
LF	LINEAR FEET
LTG	LIGHTING

MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MMFO	MULTIMODE FIBER OPTIC CABLE
MTD	MOUNTED
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC. NETWORK
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED OWNER INSTALLED
P	PRIMARY
P/O	PART OF
PC	PERSONAL COMPUTER
PDU	POWER DISTRIBUTION UNIT
PGM	PROGRAM
PH	PHASE
PNL	PANEL
POE	POWER OVER ETHERNET
PROC	PROCESSOR
PRH	PROJECT RECEPTACLE HEIGHT
PROX	PROXIMITY SENSOR
PS	POWER SUPPLY
PSF	POUNDS PER SQUARE FOOT
PSH	PROJECT SWITCH HEIGHT
PSI	POUNDS PER SQUARE INCH
PT	PASS THROUGH
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
R	RIGHT
RCP	REFLECTED CEILING PLAN
REF	REFERENCE, REFER
REQ	REQUIRED
REV	REVISION, REVISE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
S	SURFACE, SECONDARY
SQFT	SQUARE FEET
SIM	SIMILAR
SMFO	SINGLE MODE FIBER OPTIC CABLE
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STP	SHIELED TWISTED PAIR
SURF	SURFACE
SUSP	SUSPEND
TBB	TELECOM GROUNDING BUSBAR
TBD	TO BE DETERMINED
THRU	THROUGH
TMGB	TELECOM MAIN GROUNDING BUSBAR
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELED TWISTED PAIR
V	VOLT
VA	VOLT-AMPRE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VOIP	VOICE OVER INTERNET PROTOCOL
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WT	WEIGHT

DEVICE LEGEND - TELECOM/STRUCTURED CABLING

SYMBOL	DEVICE	ROUGH-IN BOX	MOUNTING HEIGHT	ELECTRICAL CONDUIT ROUGH-IN	CABLING QTY & TYPE	DEVICE NOTES
◁#	WALL MOUNT DATA OUTLET	4" SQUARE WITH SINGLE GANG TILE RING	18" AFF - UNO	FOR 1-3 CABLES PROVIDE 1" CONDUIT, FOR 4-6 CABLES PROVIDE 1.25" CONDUIT FROM BACKBOX TO ACCESSIBLE CEILING SPACE	(2) CATEGORY 6	*WHEN OUTLET IS PROVIDED WITH "C" SUBSCRIPT, OUTLET IS TO BE INSTALLED ABOVE COUNTER *WHEN OUTLET IS PROVIDED WITH NUMERICAL SUBSCRIPT, OUTLET IS TO BE INSTALLED WITH NOTED QUANTITY OF CABLES.
◁F	FIBER / DATA OUTLET	4" SQUARE WITH SINGLE GANG TILE RING	---	1" CONDUIT FROM BACKBOX TO ACCESSIBLE CEILING SPACE	(1) 4-STRAND OM-4	EXISTING DEVICE TO BE REMOVED
◁M	MONITOR DATA OUTLET	4" SQUARE WITH SINGLE GANG TILE RING	---	1" CONDUIT FROM BACKBOX TO ACCESSIBLE CEILING SPACE	(1) CATEGORY 6	---
◁W	WALL PHONE DATA OUTLET	4" SQUARE WITH SINGLE GANG TILE RING	48" AFF - UNO	1" CONDUIT FROM BACKBOX TO ACCESSIBLE CEILING SPACE	(1) CATEGORY 6	---
TS	CENTRAK TEMPERATURE SENSOR	---	48" AFF - UNO	---	---	EXISTING DEVICE TO BE REMOVED

DEVICE LEGEND - SECURITY/ACCESS CONTROL

SYMBOL	DEVICE	ROUGH-IN BOX	MOUNTING HEIGHT	ELECTRICAL CONDUIT ROUGH-IN	CABLING QTY & TYPE	DEVICE NOTES
CR	MULTI-TECHNOLOGY CARD READER	4" SQUARE WITH SINGLE GANG TILE RING	42" AFF - UNO	1" EMT CONDUIT ROUTED FROM DOOR FRAME TO SECURITY JUNCTION BOX IN NEAREST ACCESSIBLE CEILING SPACE.	22-18AWG, 6 CONDUCTOR TWISTED,OA-SHIELD.	---
E	ELECTRIC DOOR HARDWARE	---	---	3/4" EMT CONDUIT ROUTED FROM DOOR FRAME TO SECURITY JUNCTION BOX IN NEAREST ACCESSIBLE CEILING SPACE.	18AWG, 2 CONDUCTOR & 22AWG, 4 CONDUCTOR	ELECTRONIC LOCKING HARDWARE W/INTEGRATED REQUEST TO EXIT AND TRANSFER HINGE INSTALLED BY DIV 8.
▣	DOOR ACTUATOR BUTTON	4" SQUARE WITH SINGLE GANG TILE RING	42" AFF - UNO	---	22AWG, 4 CONDUCTOR	COORDINATE WITH DIVISION 8 FOR INTERFACE TO SHUNT DOOR OPERATOR BUTTON UNTIL VALID CARD READ. SINGLE GANG TILE RING REQUIRED

DEVICE LEGEND - NURSE CALL

SYMBOL	DEVICE	ROUGH-IN BOX	MOUNTING HEIGHT	ELECTRICAL CONDUIT ROUGH-IN	CABLING QTY & TYPE	DEVICE NOTES
A	STAFF ASSIST & CODE BLUE STATION	SINGLE GANG (NON-GANGABLE), 3.5" DEEP BACKBOX WITH SINGLE GANG TILE RING	48" AFF - UNO (REFER TO ELEVATIONS)	ONE(1) - 3/4" EMT CONDUIT FROM BACKBOX TO EXISTING NURSE CALL SYSTEM CONDUIT SYSTEM IN CORRIDOR	(1) CATEGORY 6	---
◓	CORRIDOR DOME LIGHT	3.5" DEEP BACKBOX (NON-GANGABLE) WITH TWO GANG TILE RING AND CEILING SUPPORT BRIDGE	CEILING MOUNT	CONNECT BACKBOX TO NURSE CALL CONDUIT SYSTEM BY 1" FLEX CONDUIT.	18AWG, 2 CONDUCTOR	CENTER DEVICE IN CEILING ABOVE DOOR. COORDINATE BACKBOX ORIENTATION WITH NURSE CALL VENDOR.
SD	STAFF DUTY STATION W/ CODE BLUE	NON-GANGABLE 3.5" DEEP BACKBOX WITH 4 GANG TILE RING	48" AFF - UNO	ONE(1) - 3/4" EMT CONDUIT FROM BOX TO CORRIDOR ACCESSIBLE CEILING SPACE.	NURSE CALL SYSTEM PROPRIETARY CABLE	EXISTING DEVICE TO REMAIN

NOTE: WHEN DEVICE IS PROVIDED WITH "EX" SUBSCRIPT, THE DEVICE IS EXISTING.

LOW VOLTAGE SYSTEM REQUIREMENTS:

GENERAL

ALL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

REGULATORY REQUIREMENTS

- THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70) WITH 2021 GEORGIA AMENDMENTS.
- THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE WITH 2024 GEORGIA AMENDMENTS.
- THE CURRENT EDITION OF THE LIFE SAFETY CODE (NFPA 101), WITH 2021 GEORGIA ADMENDMENTS.
- THE NATIONAL ELECTRICAL SAFETY CODE (ANSI C 2).
- AMERICANS WITH DISABILITIES ACT (ADA)
- LOCAL CITY AND COUNTY ORDINANCES GOVERNING ELECTRICAL WORK.
- ANSI/TIA/EIA-568-B.1 THROUGH ANSI/TIA/EIA-568-B.3.
- ANSI/TIA/EIA-606-A.
- ANSI/TIA/EIA-607-A.
- TIA-1179.
- LATEST EDITION OF BICSI TDMM.
- IN THE EVENT OF CONFLICTS, THE MORE STRINGENT PROVISIONS SHALL APPLY.

ALL NEW EQUIPMENT, DEVICES, AND FIXTURES SHALL CONFORM TO THE STANDARDS OF THE FOLLOWING WHERE SUCH STANDARDS ARE APPLICABLE:

- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA).
- UNDERWRITERS' LABORATORIES, INC. (UL)
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- BUILDING INDUSTRY CONSULTING SERVICES INTL (BICSI)

A. THE CONTRACTOR SHALL FURNISH AND INSTALL DEVICES AS INDICATED ON THE CONTRACT DRAWINGS, PROVIDING FULLY FUNCTIONAL SYSTEMS. ALL MATERIALS, OBVIOUSLY A PART OF THE LV SYSTEMS AND NECESSARY TO ITS PROPER OPERATION, BUT NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED, AND INSTALLED WITHOUT ADDITIONAL CHARGE.

B. THE CONTRACTORS SHALL USE CARE TO PROTECT EXISTING CABLES IN CEILINGS, WALLS, TELECOM ROOMS, AND EQUIPMENT RACKS. PRECAUTIONS SHALL BE TAKEN TO NOT DAMAGE OR DISRUPT THE OPERATION OF ANY EXISTING SYSTEM.

C. THE LV CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICTS.

D. VERIFY THE LOCATION OF CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.

E. ALL PENETRATIONS OF FIRE OR SMOKE RATED CONSTRUCTION SHALL BE SEALED WITH APPROVED FIRE STOPPING MATERIALS. FIRE STOPPING MATERIALS SHALL BE LISTED FOR THE RATING OF THE CONSTRUCTION TO BE PENETRATED.

F. INSTALLER QUALIFICATIONS SHALL INCLUDE AT LEAST 3 YEARS OF SUCCESSFUL APPLICATION, INSTALLATION, AND TESTING EXPERIENCE ON THE SPECIFIED EQUIPMENT. INSTALLERS ASSIGNED TO PERFORM THE INSTALLATION LV SYSTEM AND COMPONENTS SHALL HAVE A MINIMUM OF 3 YEAR'S EXPERIENCE.

FIRESTOP

A. THE LV CONTRACTOR SHALL USE EZ-PATH SLEEVES FOR ROUTING LOW VOLTAGE CABLING INTO IDF CLOSETS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE FIRE ASSEMBLY RATING OF THE EZ-PATH SYSTEMS USED WHEN ROUTING CABLES.

B. REPORT TO THE GENERAL CONTRACTOR'S PROJECT MANAGER ANY EXISTING BREACHES IN FIRE OR SMOKE BARRIERS ENCOUNTERED THROUGHOUT THE PROJECT.

SUBMITTALS

A. CONTRACTORS SHALL PROVIDE SUBMITTALS FOR INDIVIDUAL SYSTEMS AND EQUIPMENT ASSEMBLIES THAT CONSIST OF MORE THAN ONE ITEM OR COMPONENT. SUBMITTALS SHALL BE ARRANGED BY SYSTEM TYPE AND QUANTITY OF DEVICES TO BE PROVIDED.

MATERIALS

A. WHERE EQUIPMENT IS IDENTIFIED BY THE MANUFACTURER AND CATALOG NUMBER, IT SHALL BE THE BASE OF REQUIREMENTS FOR QUALITY AND PERFORMANCE. WHERE MANUFACTURERS FOR EQUIPMENT ARE IDENTIFIED BY NAME, THE CONTRACTOR SHALL PROVIDE EQUIPMENT WITHOUT SUBSTITUTION.

B. ALL COPPER CABLES AND COMPONENTS SHALL BE PROVIDED AND INSTALLED BY MANUFACTURER CERTIFIED INSTALLERS THAT SHALL PROVIDE AN EXTENDED WARRANTY OF 20 YEARS FOR CERTIFIED INSTALLATIONS. MANUFACTURER SHALL PROVIDE WARRANTIES AND CONTRACTOR SHALL PROVIDE DOCUMENTATION OF CERTIFICATION BY MANUFACTURER. ACCEPTABLE COPPER SOLUTION MANUFACTURERS SHALL BE THE PRODUCTS OF THE FOLLOWING MANUFACTURER -COMMSCOPE CABLING SYSTEM.

TESTING

A. ALL CABLES AND TERMINATION HARDWARE SHALL BE 100% TESTED FOR DEFECTS IN INSTALLATION AND TO VERIFY CABLING SYSTEM PERFORMANCE UNDER INSTALLED CONDITIONS ACCORDING TO THE REQUIREMENTS OF ANSI/TIA/EIA 568-C.

B. ALL TWISTED-PAIR COPPER CABLE LINKS SHALL BE TESTED FOR CONTINUITY, PAIR REVERSALS, SHORTS, OPENS, AND PERFORMANCE AS INDICATED BELOW. ADDITIONAL TESTING IS REQUIRED TO VERIFY CATEGORY 6 PERFORMANCE. HORIZONTAL BALANCED TWISTED PAIR CABLING SHALL BE TESTED USING A LEVEL III TEST UNIT FOR CATEGORY 6 COMPLIANCE AND PERFORMANCE UP TO 350 MHZ. THE CABLE LENGTH SHALL CONFORM TO THE MAXIMUM DISTANCES SET FORTH IN THE ANSI/TIA/EIA 568 B.1-3 STANDARD.

C. TEST DOCUMENTATION SHALL BE PROVIDED AS PART OF THE AS-BUILT PACKAGE. PRINTOUTS GENERATED FOR EACH CABLE BY THE WIRE TEST INSTRUMENT SHALL BE SUBMITTED AS PART OF THE DOCUMENTATION PACKAGE. THE DOCUMENTATION SHALL INCLUDE THE WORDS "PROJECT TEST DOCUMENTATION", THE PROJECT NAME, AND THE DATE OF COMPLETION (MONTH AND YEAR). THE RESULTS SHALL INCLUDE A RECORD OF TEST FREQUENCIES, CABLE TYPE, CONDUCTOR PAIR (OR STRAND) AND CABLE (OR OUTLET) I.D., MEASUREMENT DIRECTION, REFERENCE SETUP, AND CREW MEMBER NAME(S). THE TEST EQUIPMENT NAME, MANUFACTURER, MODEL NUMBER, SERIAL NUMBER, SOFTWARE VERSION, AND LAST CALIBRATION DATE WILL ALSO BE PROVIDED AT THE END OF THE DOCUMENT. THE TEST DOCUMENT SHALL DETAIL THE TEST METHOD USED AND THE SPECIFIC SETTINGS OF THE EQUIPMENT DURING THE TEST AS WELL AS THE SOFTWARE VERSION BEING USED IN THE FIELD TEST EQUIPMENT.

D. THE NURSE CALL CONTRACTOR SHALL PROVIDE A LETTER CERTIFYING THE NURSE CALL SYSTEM A WEEK IN ADVANCE OF THE PROJECT'S FINAL INSPECTION BY THE STATE FIRE MARSHALL AND THE GEORGIA DEPARTMENT OF COMMUNITY HEALTH. THIS LETTER WILL CERTIFY THAT THE CONTRACTOR HAS THOROUGHLY TESTED THE NURSE CALL SYSTEM. INCLUDE THE PROJECT NAME, THE INSTALLATION COMPANY'S NAME ALONG WITH THE PROJECT MANAGER, THE SPECIFIC AREA WHERE THE SYSTEM IS INSTALLED, AND CONFIRM THAT THE SYSTEM IS FULLY OPERATIONAL, MEETING BOTH DESIGN REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS.

AS-BUILT DRAWINGS

A. AS-BUILT DRAWINGS SHALL ACCURATELY RECORD THE LOCATION OF ALL DEVICES. DRAWINGS SHALL INDICATE CABLE ROUTING AND IDENTIFICATION, SYSTEM FUNCTION DIAGRAMS, CONNECTION, AND PROGRAMMING SCHEDULES AS APPROPRIATE.

B. FURNISH AS-BUILT DRAWINGS AND DOCUMENTATION TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL. AS-BUILT DRAWINGS SHALL BE GENERATED IN AUTOCAD 2004 OR LATER.

OPERATIONS AND MAINTENANCE MANUALS

A. AFTER COMPLETION OF THE WORK, THE CONTRACTOR SHALL FURNISH AND DELIVER TO THE ENGINEER A COMPLETE OPERATIONS & MAINTENANCE MANUAL. A SYSTEM WIRING DIAGRAM SHALL BE FURNISHED FOR EACH SEPARATE SYSTEM. THE MANUAL SHALL BE SUBDIVIDED INTO SEPARATE SECTIONS WITH TAB DIVIDERS TO IDENTIFY SUBSYSTEMS OF THE INTEGRATED SYSTEM.

B. PROVIDE THE FOLLOWING ADDITIONAL INFORMATION FOR EACH ELECTRONIC SYSTEM: POINT TO POINT DIAGRAMS, CABLING DIAGRAMS, CONSTRUCTION DETAILS, AND CABLING LABELING DETAILS. TROUBLESHOOTING PROCEDURES FOR EACH SYSTEM AND EACH MAJOR SYSTEM COMPONENT.

TRAINING

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAINING OF FACILITY PERSONNEL. TRAINING SHALL TAKE PLACE AFTER OCCUPANCY, AND SHALL INCLUDE PROGRAMS FOR ON-SITE OPERATIONS AND MAINTENANCE OF TECHNOLOGY AND COMMUNICATIONS SYSTEMS. TRAINING SHALL BE FOR NOT MORE THAN TEN (10) PEOPLE, BE HELD AT THE OWNER'S SITE, AND SHALL BE OF SUFFICIENT DURATION AND DEPTH TO ENSURE THAT THE TRAINED PERSONNEL CAN OPERATE THE INSTALLED SYSTEMS AND CAN PERFORM USUAL AND CUSTOMARY MAINTENANCE ACTIONS.

WARRANTY

A. LV SYSTEMS IN GENERAL: ALL EQUIPMENT IS TO BE NEW AND WARRANTED FREE OF FAULTY WORKMANSHIP AND DAMAGE. THE CONTRACTOR SHALL PROVIDE THE REPLACEMENT OF DEFECTIVE EQUIPMENT AND MATERIALS AND REPAIR OF FAULTY WORKMANSHIP WITHIN 24 HOURS OF NOTIFICATION, EXCEPT FOR EMERGENCY CONDITIONS (SYSTEM FAILURES), WHICH MUST BE PLACED BACK IN SERVICE WITHIN EIGHT (8) HOURS OF NOTIFICATION, ALL AT NO COST TO THE OWNER. THE MINIMUM WARRANTY PROVISIONS SPECIFIED SHALL NOT DIMINISH THE TERMS OF INDIVIDUAL EQUIPMENT MANUFACTURER'S WARRANTIES.

B. HORIZONTAL STRUCTURED CABLING: THE LOW VOLTAGE CONTRACTOR SHALL PROVIDE A 25-YEAR MANUFACTURER WARRANTY FOR COMPONENTS USED IN THE INSTALLED STRUCTURED CABLING SYSTEM. DEFECTIVE AND/OR IMPROPERLY INSTALLED PRODUCTS SHALL BE REPLACED AND/OR CORRECTLY INSTALLED AT NO COST TO THE OWNER.

SHEET LIST

SHEET NUMBER	SHEET NAME
LV-000	COVER PAGE
LV-200	LEVEL 8 - OVERALL FLOOR PLAN
LV-201	LEVEL 8 - DEMOLITION PLAN
LV-202	LEVEL 8 - FLOOR PLAN
LV-401	ONE-LINE DIAGRAMS
LV-501	DETAILS
LV-502	DETAILS

RANDALL PAULSON
architects
Roswell . Nashua

No. PE048042
KALEB R PERKINS

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

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ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	WP	KP
25 APR 25	ISSUE FOR PERMIT	WP	KP

Revisions

Date: 25 APRIL 2025
Project No.: 2024509.00

Sheet Title
COVER PAGE

Sheet No.
LV-000

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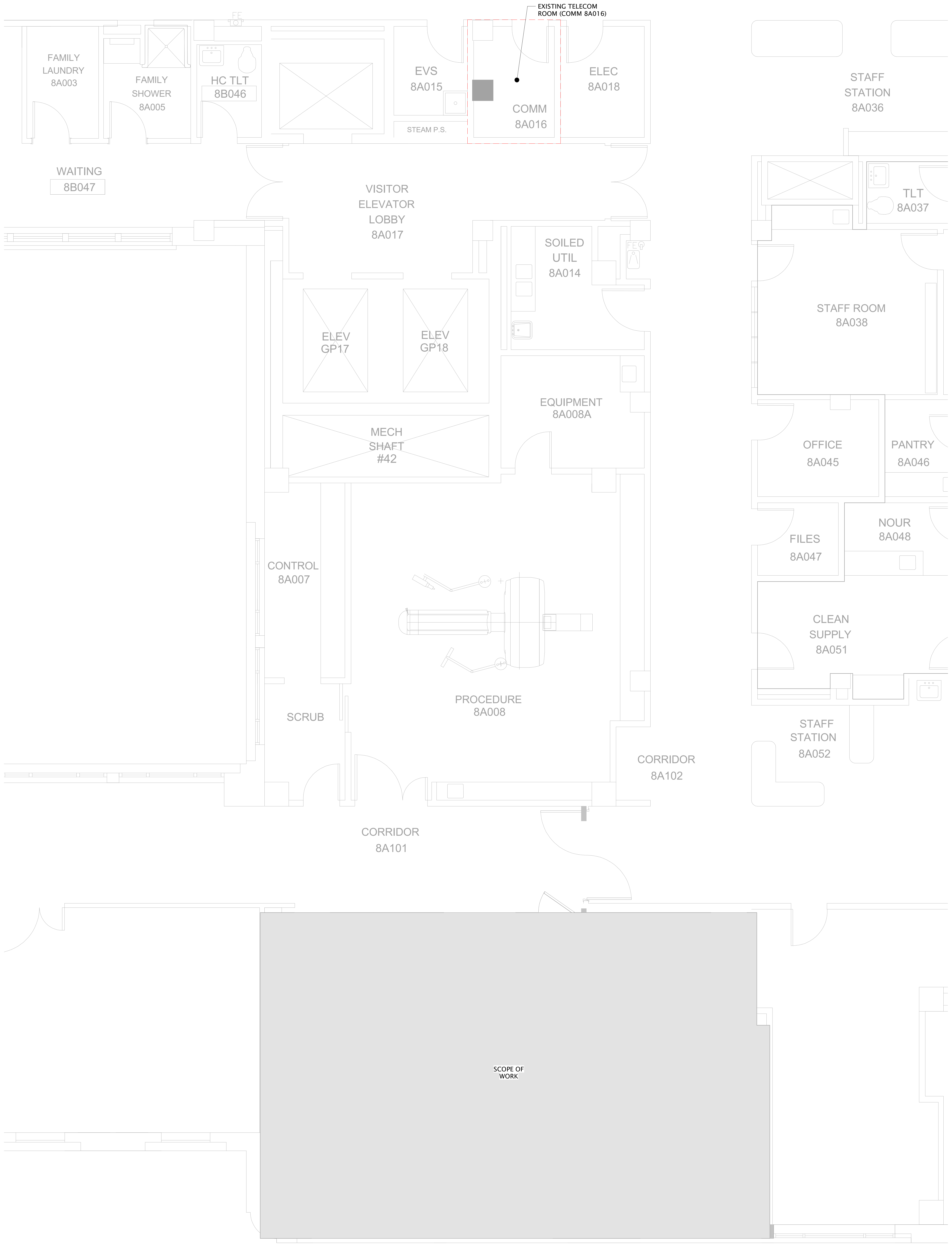
EXISTING TELECOM
ROOM (COMM 8A016)
FAMILY
LAUNDRY
8A003
FAMILY
SHOWER
8A005
HC TLT
8B046
EVS
8A015
STEAM P.S.
COMM
8A016
ELEC
8A018
STAFF
STATION
8A036
WAITING
8B047
VISITOR
ELEVATOR
LOBBY
8A017
TLT
8A037
SOILED
UTIL
8A014
STAFF ROOM
8A038
ELEV
GP17
ELEV
GP18
EQUIPMENT
8A008A
MECH
SHAFT
#42
OFFICE
8A045
PANTRY
8A046
NOUR
8A048
FILES
8A047
CONTROL
8A007
CLEAN
SUPPLY
8A051
PROCEDURE
8A008
SCRUB
STAFF
STATION
8A052
CORRIDOR
8A102
CORRIDOR
8A101
SCOPE OF
WORK

1 LEVEL 8 - OVERALL FLOOR PLAN

1/4" = 1'-0"

RANDALL PAULSON
architects
Roswell . Nashua

GEORGIA
REGISTERED
No. PE048042
PROFESSIONAL
ENGINEER
KALEB R PERKINS

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

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SUITE 8-A
80 JESSE HILL, JUNIOR DRIVE
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Revisions		

Date: 25 APRIL 2025
Project No.: 2024509.00

Sheet Title
LEVEL 8 - OVERALL FLOOR PLAN

Sheet No.
LV-200

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770.817.4220
www.jaengineering.net

GENERAL NOTES:

A. CONTRACTORS SHALL REMOVE CABLES FOR EXISTING LOW VOLTAGE DEVICES DEMOLISHED FROM THE AREA. CABLES MUST BE COMPLETELY REMOVED FROM THE DEVICE TO THE NETWORK PATCH PANELS, OR EQUIPMENT ENCLOSURE OUTSIDE OF THE AREA. CABLES INTENDED FOR REUSE SHALL BE PULLED BACK TO A SAFE LOCATION AWAY FROM POSSIBLE CONSTRUCTION DAMAGE, COIL AND SUPPORT CABLES FROM A J-HOOK ATTACHED TO STRUCTURE. CABLES SHALL BE TAGGED WITH SYSTEM INFORMATION, FUNCTION, ORIGINATION, AND THE LOCATION NOTED ON THE AS-BUILT DRAWINGS.

B. CONTRACTORS ARE RESPONSIBLE FOR PROTECTING EXISTING EQUIPMENT AND CABLING IN CEILINGS, WALLS, TELECOM ROOMS, AND EQUIPMENT RACKS. THIS INCLUDES TAKING ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE AND DISRUPTION TO ANY OPERATIONAL SYSTEMS. ANY DAMAGE TO EXISTING INFRASTRUCTURE CAUSED BY THE CONTRACTOR WILL BE THEIR SOLE RESPONSIBILITY FOR REPAIR OR REPLACEMENT, TO THE OWNER'S SATISFACTION AND AT THE CONTRACTOR'S EXPENSE.

C. CONTRACTORS MUST OBTAIN AN "ABOVE CEILING PERMIT" FROM THE FACILITIES DEPARTMENT BEFORE STARTING ANY WORK ABOVE THE CEILING IN AREAS OUTSIDE THE DESIGNATED WORK ZONE. BEFORE INSTALLING CABLES, CONTRACTORS MUST CONDUCT A SURVEY OF THE EXISTING AREAS INVOLVED. THIS SURVEY SHALL INCLUDE A DETAILED DIAGRAM OF THE PLANNED CABLE ROUTES, WHICH NEEDS TO BE SUBMITTED FOR OWNER APPROVAL.

D. EXISTING NURSE CALL DOME LIGHTS SHALL BE REMOVED AND TURNED OVER TO THE OWNER FOR DISPOSITION.

KEY NOTES:

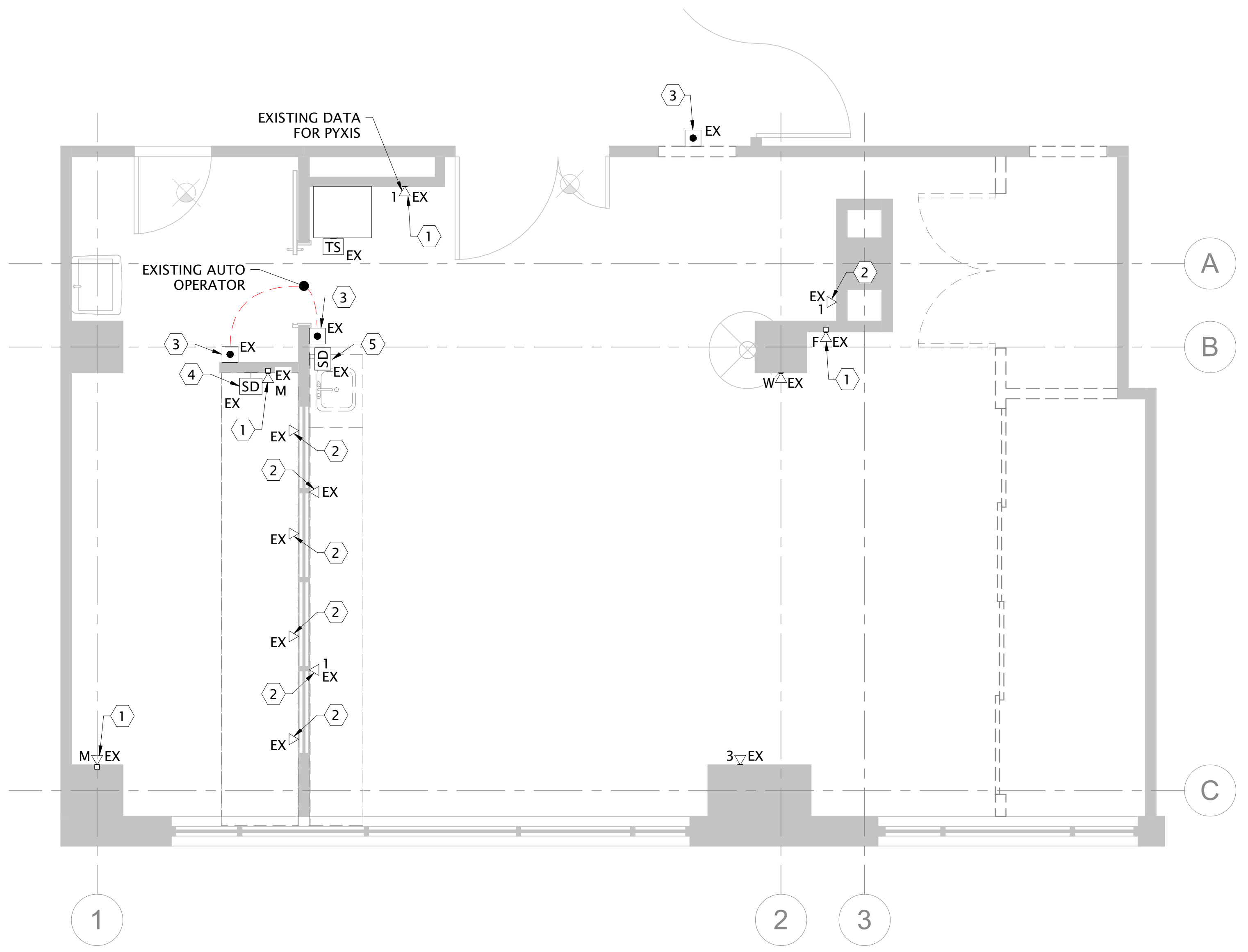
⟨1⟩ EXISTING DATA OUTLET TO BE REMOVED BY CONTRACTOR. CONTRACTOR SHALL REMOVE EXISTING CABLING BACK TO THE NETWORK PATCH PANEL LOCATED IN LOCAL IDF ROOM COMM 8A016. CONTRACTOR TO FIELD VERIFY.

⟨2⟩ EXISTING DATA OUTLET TO BE REMOVED AND RELOCATED BY CONTRACTOR. CONTRACTOR SHALL PULL EXISTING CABLING BACK TO A SAFE LOCATION AWAY FROM POSSIBLE CONSTRUCTION DAMAGE, COIL AND SUPPORT CABLES FROM A J-HOOK ATTACHED TO STRUCTURE. CABLES SHALL BE TAGGED WITH SYSTEM INFORMATION, FUNCTION, ORIGINATION, AND THE LOCATION NOTED ON THE AS-BUILT DRAWINGS.

⟨3⟩ EXISTING ACCESS CONTROL DEVICE TO BE REMOVED AND RELOCATED BY CONTRACTOR. CONTRACTOR SHALL REMOVE EXISTING CABLING BACK TO THE ACCESS CONTROL PANEL. TURN OVER UNUSED DEVICES TO GRADY'S FACILITIES DEPARTMENT.

⟨4⟩ EXISTING NURSE CALL DEVICE TO BE REMOVED AND RELOCATED BY CONTRACTOR. CONTRACTOR SHALL PULL EXISTING CABLING BACK TO A SAFE LOCATION AWAY FROM POSSIBLE CONSTRUCTION DAMAGE, COIL AND SUPPORT CABLES FROM A J-HOOK ATTACHED TO STRUCTURE. CABLES SHALL BE TAGGED WITH SYSTEM INFORMATION, FUNCTION, ORIGINATION, AND THE LOCATION NOTED ON THE AS-BUILT DRAWINGS.

⟨5⟩ EXISTING NURSE CALL DEVICE TO BE REMOVED BY CONTRACTOR. CONTRACTOR SHALL REMOVE EXISTING CABLING BACK TO THE NURSE CALL CONTROL PANEL. TURN OVER UNUSED DEVICES TO GRADY'S FACILITIES DEPARTMENT.



1 LEVEL 8 - DEMOLITION PLAN

1/4" = 1'-0"

RANDALL PAULSON
architects
Roswell . Nashua

GEORGIA
REGISTERED
No. PE048042
PROFESSIONAL
ENGINEER
KALEB R PERKINS

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

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17 APR 25	95% REVIEW	WP	KP
25 APR 25	ISSUE FOR PERMIT	WP	KP

Revisions		

Date
25 APRIL 2025

Project No.
2024509.00

Sheet Title
LEVEL 8 - DEMOLITION PLAN

Sheet No.
LV-201

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www.jaengineering.net

GENERAL NOTES:

A. ALL DATA CABLES TO BE ROUTED DIRECT TO TELECOM ROOM WITHOUT SPLICES. NO JUNCTIONS OR SPLICES IN CABLES ARE ACCEPTABLE.

B. COORDINATE EXACT LOCATION AND ORIENATATION OF DATA OUTLETS WITH POWER RECEPTACLES. DATA OUTLETS TO MATCH POWER RECEPTACLE ORIENTATION AND ELEVATION SEE INSTALLATION DETAILS.

C. COORDINATE LOCATION OF ALL DATA DROPS FOR VIDEO SURVEILLANCE CAMERAS WITH SECURITY CONTRACTOR.

D. FOR ALL LOW VOLTAGE CABLING, PROVIDE EMT RACEWAY FROM DEVICE BACKBOX TO ACCESSIBLE CEILING SPACE, WITH J-HOOK SUPPORT TO LOCAL TELECOM ROOM. J-HOOKS TO BE INSTALLED ON 4'-0" TO 5'-0" CENTERS.

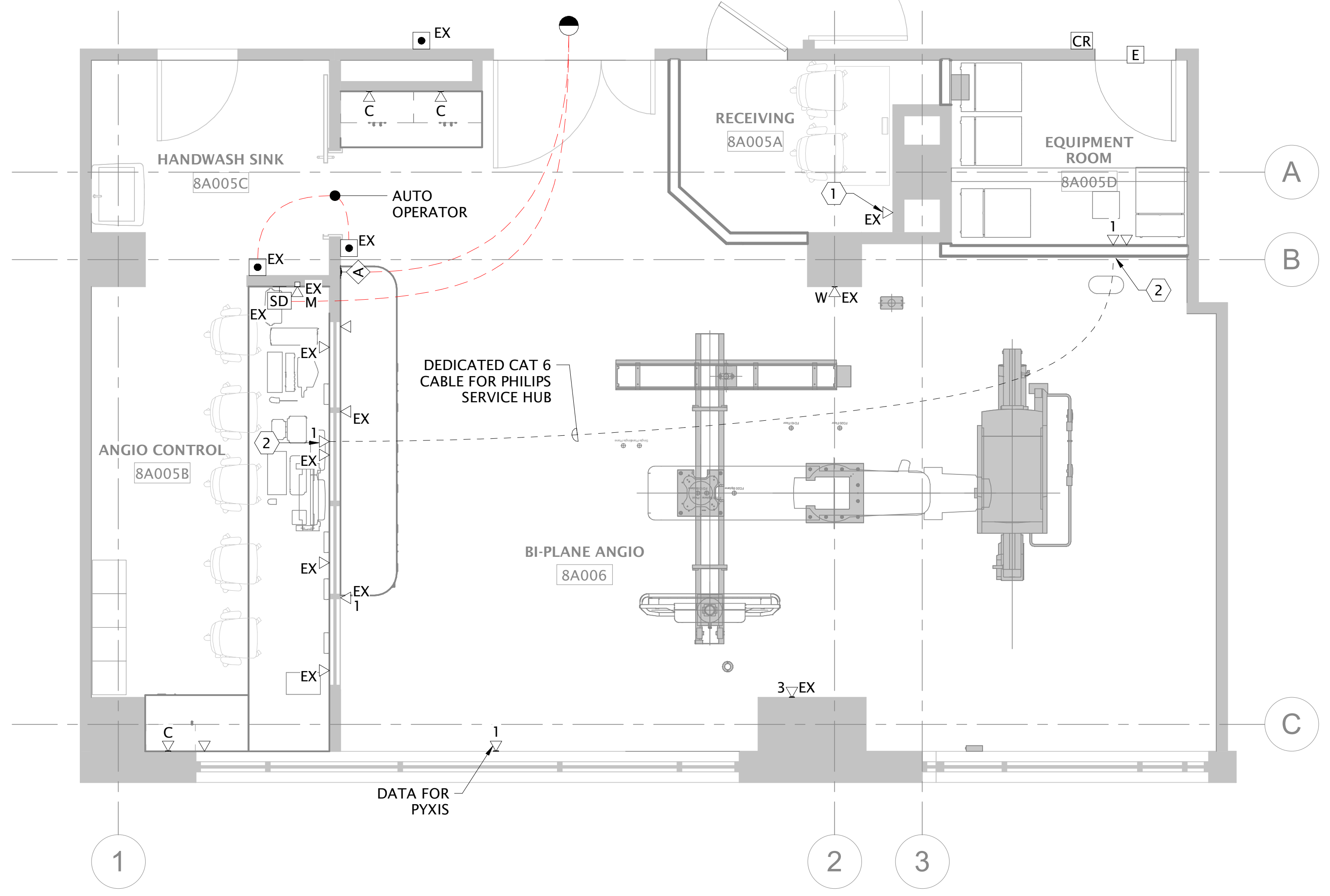
E. ALL CONDUIT INSTALLATION TO MEET REQUIREMENTS OF NATIONAL ELECTRIC CODE (NEC) CURRENT EDITION.

F. SUBSCRIPT “EX” REPRESENTS EXISTING DEVICES TO BE REMOVED AND REINSTALLED.

KEY NOTES:

1. EXISTING SINGLE PORT DATA OUTLET TO BE CHANGED TO A DUAL PORT DATA OUTLET.

2. STRUCTURED CABLING CONTRACTOR TO PROVIDE SINGLE PORT DATA OUTLET TERMINATED WITH DEDICATED CATEGORY 6 CABLE BETWEEN EQUIPMENT 8A006A AND ANGIO CONTROL 8A005B FOR PHILIPS SERVICE HUB.


EX
C
C
HANDWASH SINK
8A005C
AUTO OPERATOR
EX
EX
SD
M
EX
A
DEDICATED CAT 6 CABLE FOR PHILIPS SERVICE HUB
ANGIO CONTROL
8A005B
2
1
EX
BI-PLANE ANGIO
8A006
C
1
DATA FOR PYXIS
RECEIVING
8A005A
1
EX
W
CR
E
EQUIPMENT ROOM
8A005D
2
3
A
B
C
1
2
3

1 **LEVEL 8 - FLOOR PLAN**
1/4" = 1'-0"

RANDALL PAULSON
architects
Roswell . Nashua

No. PE048042
KALEB R PERKINS

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

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ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	WP	KP
25 APR 25	ISSUE FOR PERMIT	WP	KP

Revisions

Date 25 APRIL 2025
Project No. 2024509.00

Sheet Title
LEVEL 8 - FLOOR PLAN

Sheet No.
LV-202

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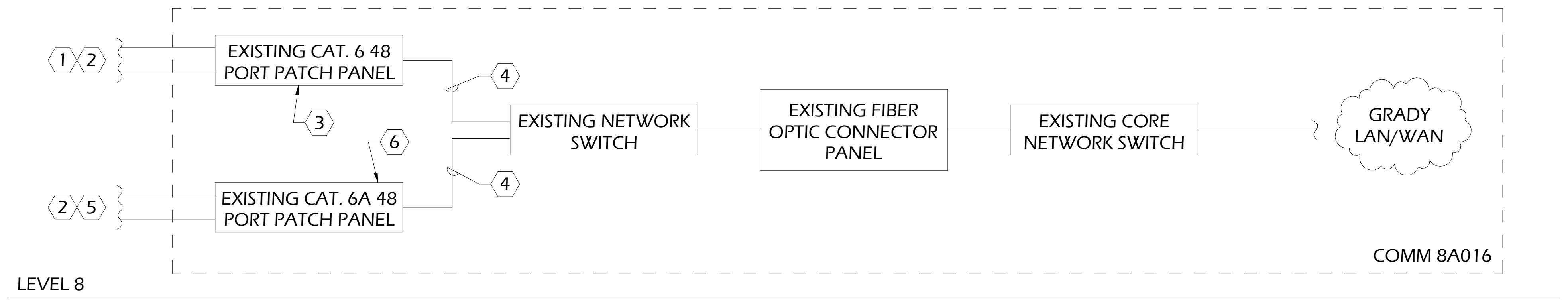
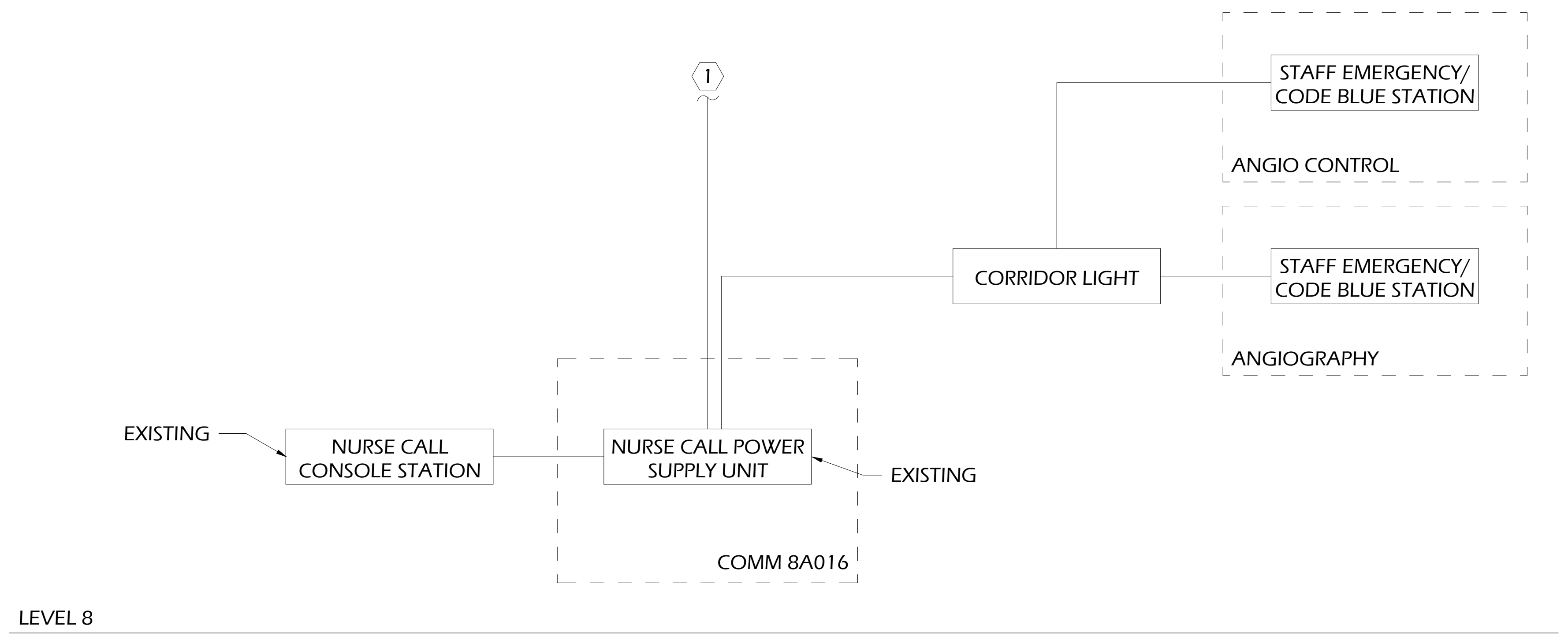

1
2
EXISTING CAT. 6 48 PORT PATCH PANEL
4
3
6
EXISTING NETWORK SWITCH
EXISTING FIBER OPTIC CONNECTOR PANEL
EXISTING CORE NETWORK SWITCH
GRADY LAN/WAN
2
5
EXISTING CAT. 6A 48 PORT PATCH PANEL
4
COMM 8A016
LEVEL 8

1 ONE-LINE DIAGRAM - DATA DISTRIBUTION

N.T.S.


1
STAFF EMERGENCY/ CODE BLUE STATION
ANGIO CONTROL
CORRIDOR LIGHT
STAFF EMERGENCY/ CODE BLUE STATION
ANGIOGRAPHY
EXISTING
NURSE CALL CONSOLE STATION
NURSE CALL POWER SUPPLY UNIT
EXISTING
COMM 8A016
LEVEL 8

2 ONE-LINE DIAGRAM - NURSE CALL

N.T.S.

SYSTEM REQUIREMENTS:

(APPLIES TO DETAIL 1/LV-401 ONLY)

A. THE STRUCTURED CABLING CONTRACTOR SHALL UPDATE THE WALL MOUNTED AND FRAMED 11"X 17" AS-BUILT DRAWING REFLECTING CONSOLIDATION POINTS, AND WORKSTATION OUTLETS IN EACH RESPECTIVE IDF.

B. FACEPLATES SHALL BE COMMSCOPE UNIPRISE – WHITE WITH LABELS. INCLUDE BLANK COVERS FOR UNUSED PORTS. COORDINATE WITH OWNER FOR EXACT FACEPLATE STYLE PRIOR TO ORDERING.
   a. 2 PORT PART # 108168469 | M12L-262
   b. 4 PORT PART # 108168584 | M14L-262
   c. 6 PORT PART # 108168584 | M16L-262
   d. WALL PORT PART # 760100891 | M10LW4SP

C. DATA JACKS: COLOR SHALL BE “BLUE”, CATEGORY 6. PROVIDE COMMSCOPE JACK PART # UNJ600-BL.

D. WIRELESS ACCESS DATA JACKS: COLOR SHALL BE “GREEN”, CATEGORY 6A. PROVIDE COMMSCOPE UNIPRISE JACK PART # USL10G-GRN.

E. SURVEILLANCE CAMERA JACKS: COLOR SHALL BE "RED" CATEGORY 6. PROVIDE COMMSCOPE JACK PART # UNJ600-RD.

F. DATA CABLES: CATEGORY 6 CABLE COLOR SHALL BE “BLUE”. PROVIDE COMMSCOPE UNIPRISE PART #UN874043004/10.

G. WIRELESS DATA CABLE: CATEGORY 6A CABLE COLOR SHALL BE “GREEN”. PROVIDE COMMSCOPE UNIPRISE PART #UN874035904/10.

H. SURVEILLANCE CAMERAS: CATEGORY 6 CABLE COLOR SHALL BE “PINK”. PROVIDE COMMSCOPE UNIPRISE PART #UN874033904/10.

KEY NOTES:

(APPLIES TO DETAIL 1/LV-401 ONLY)

1 FOR HORIZONTAL DATA CIRCUITS, PROVIDE PLENUM-TYPE 23 AWG/CATEGORY 6 COMPLIANT/4 PR. CABLE FROM CATEGORY 6 PATCH PANEL IN TELECOM ROOMS TO STATION OUTLET LOCATIONS. SEE LEGEND AND FLOOR PLANS FOR REQUIREMENTS.

2 REFERENCE OUTLET DETAILS FOR TERMINATION REQUIREMENTS

3 COPPER PATCH PANELS TO BE SIZED AS REQUIRED TO PROVIDE CAT. 6 LINK TO ALL STATIONS OUTLETS. PROVIDE SPARE CAPACITY AS REQUIRED IN SPECIFICATIONS. PATCH PANELS TO BE CATEGORY 6, 48 PORT TYPE. PROVIDE 18" CABLE SLACK TO ALLOW FUTURE REPOSITIONING OF PATCH PANEL. CONTRACTOR TO COORDINATE WITH GRADY I.T. FOR INSTALLATION LOCATION IN EXISTING TELECOM RACK AND CONNECTIVITY TO GRADY NETWORK.

4 PROVIDE 2-METER CATEGORY 6 & 3-METER CATEGORY 6A PATCH CORDS FOR EACH TERMINATED HORIZONTAL CIRCUIT.

5 FOR WIFI DATA OUTLETS, PROVIDE PLENUM-TYPE 23 AWG/CATEGORY 6A COMPLIANT/4 PR. CABLE FROM CATEGORY 6A PATCH PANEL IN TELECOM ROOMS TO ACCESS POINT OUTLET LOCATIONS. SEE LEGEND AND FLOOR PLANS FOR REQUIREMENTS.

6 CONTRACTOR TO TERMINATE WIFI CAT. 6A CABLING ON TO EXISTING CAT. 6A PATCH PANEL. CONTRACTOR TO COORDINATE WITH GRADY I.T. FOR EXACT TERMINATION AND LOCATION REQUIREMENTS

SYSTEM REQUIREMENTS:

(APPLIES TO DETAIL 2/LV-401 ONLY)

A. NURSE CALL DEVICES SHALL REPORT TO THE EXISTING NURSE CONSOLE IN NURSE STATION 7100A. DEVICES SHALL ALSO ACTIVATE THE REPORTAND ACTIVATE THE DUTY FUNCTION IN ALL DUTY STATIONS IN THE MRI SUITE. DUTY STATIONS SHALL PROVIDE REMOTE ANNUNCIATION OF NURSE CALL DEVICES VIA 4 LED’S AND 12 CALL TONES. DUTY STATION FACEPLATE LED’S SHALL MIMIC CORRIDOR LIGHT ACTIVITY FOR THE ASSIGNED NURSING AREA. CALL TONES GENERATED AT DUTY STATION MUST BE IDENTICAL AND REPEAT IN SYNCH WITH TONES PRODUCED AT CLOSEST NURSE CONSOLE. IT SHALL BE POSSIBLE TO MUTE THE CALL IN TONE, WITHOUT CANCELLING THE CALL. THE NEXT CALL IN, ASSIGNED TO THIS DUTY STATION, WILL UN-MUTE THE STATION. MUTING FEATURE MAY BE DEFEATED IN THOSE JURISDICTIONS THAT DO NOT ALLOW MUTING OF DUTY STATION.

B. EMERGENCY PULL CORD STATIONS SHALL ALERT STAFF MEMBERS OF PATIENT CALLS WHERE PROMPT EMERGENCY HELP IS REQUIRED. PULL CORDS SHALL EXTEND TO WITHIN 2-INCHES OF THE FLOOR. EMERGENCY PULL CORD STATION SHALL BE WEST-COM MODEL # NV-WPC2/AG.

C. CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING STAFF ASSIST/ CODE BLUE STATIONS IN ALL LOCATIONS INDICATED ON THE DRAWINGS. STATION SHALL BE WEST-COM MODEL # NV-PBE2/SE/CB.

D. THE DOME LIGHT PROVIDES THE REQUIRED VISUAL SIGNAL TO NOTIFY STAFF MEMBERS OF A ROOM'S STATUS. CORRIDOR LIGHTS SHALL CONTAIN FOUR SECTIONS, EACH LIGHTED BY A LONG LIFE, RGB LED CAPABLE OF PRODUCING 7 COLOR SELECTIONS WITH CUSTOMIZABLE LED COLORS AND FLASH RATES BASED ON CALL TYPE. EACH SECTION SHALL HAVE A DIFFUSION LENS THAT ALLOWS FOR 180-DEGREE HORIZONTAL VISIBILITY OF CALL LIGHTS. DOME LIGHTS SHALL BE MOUNTED ON THE CEILING UNLESS NOTED OTHERWISE. SEE CONTRACT DRAWINGS FOR QUANTITIES AND LOCATIONS. DOME LIGHT SHALL BE WEST-COM MODEL #NV-SIPDOME.

E. THE CORRIDOR LIGHTS SHALL BE CAPABLE OF THE FOLLOWING:
1. ALL SEGMENTS OF CORRIDOR LIGHT CAN INDICATE A CALL IN ANY OF THE FOLLOWING 7 COLORS: BLUE, RED, WHITE, GREEN, ORANGE, YELLOW, AND PINK.
2. CUSTOM CALL PATTERNS (ANY COMBINATION OF LIGHT SEGMENTS, SUCH AS ALL SEGMENTS BLUE FOR CODE BLUE).
3. FLASH ANY SINGLE COLOR OR STROBE THE SECTIONS OF THE LIGHT IN ANY COLOR PATTERN.
4. CONFIGURABLE BUZZER FOR ANY CALL TYPE.

GENERAL NOTES:

(APPLIES TO DETAIL 2/LV-401 ONLY)

A. ELECTRICAL CONTRACTOR SHALL PROVIDE CONTINUOUS EMT CONDUIT SYSTEM FOR THE NURSE CALL SYSTEM. NURSE CALL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL CONDUIT REQUIREMENTS.

B. CONTRACTOR SHALL CONNECT NURSE CALL DEVICES TO THE EXISTING NURSE CALL POWER CONTROL UNIT.

C. CONTRACTOR SHALL PROVIDE A CONTINUOUS CONDUIT SYSTEMS FOR THE NURSE CALL SYSTEM. NURSE CALL VENDOR SHALL PROVIDE SHOP DRAWINGS DETAILING THE CONDUIT REQUIREMENTS INCLUDING BACKBOX TYPE, AND SIZE, AND CONDUIT ROUTING AND SIZE. CONDUIT RUNS TO NURSE CALL END POINTS SHALL BE SIZED ACCORDINGLY TO MAINTAIN A 40% FILL RATIO PER NEC REQUIREMENTS.

KEY NOTES:

(APPLIES TO DETAIL 2/LV-401 ONLY)

1 CONTRACTOR TO REFERENCE FLOOR PLAN DRAWINGS FOR QUANTITIES AND TYPE OF ALL FIELD DEVICES. FIELD DEVICES INCLUDE CHANGING ROOM PULLCORDS, AND DOME LIGHTS, ETC.

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Revisions		

Date
25 APRIL 2025

Project No.
2024509.00

Sheet Title
ONE-LINE DIAGRAMS

Sheet No.
LV-401

■ Released for Construction
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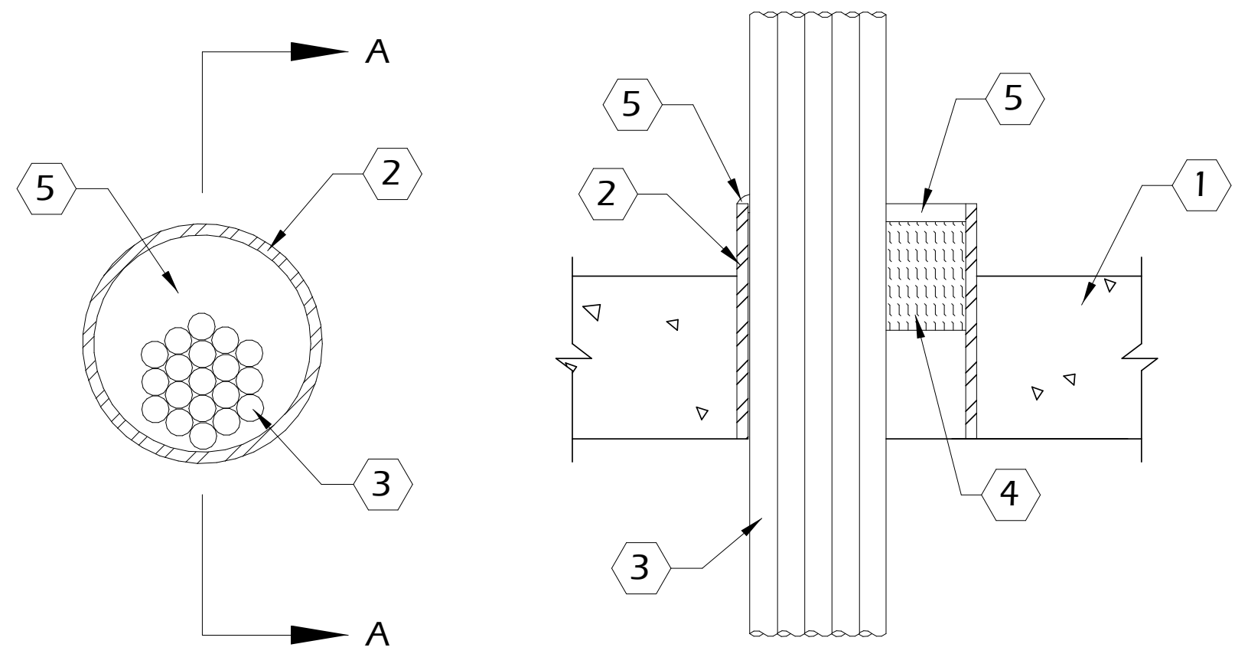


SECTION A-A

F RATINGS -2, 3 AND 4 HR (SEE ITEM 5)
T RATINGS - 0, 1/2 AND 2-3/4 HR (SEE ITEM 5)

KEY NOTES:

(APPLY TO THIS DETAIL ONLY)

1. FLOOR OR WALL ASSEMBLY - MIN 2-1/2 IN. (64 MM) OR 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. FLOOR MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS*. MAX DIAM OF OPENING IS 6 IN. (152 MM).
SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. SLEEVE - (OPTIONAL) - NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE SLEEVE, NOM 6 IN. (152 MM) DIAM (OR SMALLER) NO. 26 GA (0.022 IN. OR 0.56 MM THICK) SHEET STEEL SLEEVE WITH SQUARE ANCHOR FLANGE SPOT WELDED TO SLEEVE AT APPROX MID-HEIGHT OR NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 40 POLYVINYL CHLORIDE (PVC) PIPE SLEEVE CAST OR GROUTED INTO FLOOR OR WALL FLUSH WITH FLOOR OR WALL SURFACES. STEEL PIPE SLEEVE MAY BE INSTALLED TO PROJECT A MAX OF 2 IN. (51 MM) BEYOND THE FLOOR OR WALL SURFACES.

3. CABLES - AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN SLEEVE TO BE MAX 45 PERCENT OF THE CROSS-SECTIONAL AREA OF THE SLEEVE. SEE ITEM 5 FOR SPECIFIC CABLE FILL REQUIREMENTS. TIGHT BUNDLE OF CABLES TO BE INSTALLED IN THE STEEL SLEEVE. THE ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM SHALL BE A MIN OF 0 IN. (POINT CONTACT) TO A MAX OF 2 IN. IN 4 HR FIRE RATED ASSEMBLIES, THE ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM SHALL BE A MIN OF 1/4 IN. (6 MM) TO A MAX OF 1 IN. (25 MM). CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF CABLES MAY BE USED:

   A. MAX 400 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   B. MAX 3/C NO. 2/0 AWG (OR SMALLER) ALUMINUM OR COPPER CONDUCTOR SERVICE ENTRANCE CABLE WITH PVC INSULATION AND JACKET.
   C. MAX 3/C NO. 2/0 AWG (OR SMALLER) COPPER CONDUCTOR PVC JACKETED ALUMINUM CLAD OR STEEL CLAD TECK 90 CABLE.
   D. MAX 3/C NO. 8 AWG (OR SMALLER) NONMETALLIC SHEATHED (ROMEX) CABLE WITH COPPER CONDUCTORS, PVC INSULATION AND JACKET.
   E. MAX 1/C 1000 KCMIL (OR SMALLER) COPPER CONDUCTOR POWER CABLE WITH XLPE OR PVC INSULATION AND XLPE OR PVC JACKET.
   F. MAX RG59/U (OR SMALLER) COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKETING.
   G. MAX 62.5/48 FIBER OPTIC CABLE WITH PVC INSULATION AND JACKETING.
   H. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC INSULATION AND JACKET.

3A THROUGH PENETRATING PRODUCT* - (NOT SHOWN) - MAX 4/C NO. 2/0 AWG (OR SMALLER) STEEL OR ALUMINUM ARMORED CABLE+ OR METAL CLAD CABLE+ WITH COPPER OR ALUMINUM CONDUCTORS. DIAM OF CABLE BUNDLE (ITEM 3) INCLUDING ARMORED CABLE NOT TO EXCEED 4 IN. THROUGH PENETRATING PRODUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF A FLOOR OR WALL ASSEMBLY.

4. AFC CABLE SYSTEMS INC
PACKING MATERIAL - MIN 2, 3 OR 4 IN. (51, 76 OR 102 MM) THICKNESS OF MIN 4 PCF (64 KG/M3) DENSITY MINERAL-WOOL BATT INSULATION TIGHTLY PACKED INTO OPENING AS A PERMANENT FORM FOR 2, 3 OR 4 HR FIRE RATED ASSEMBLIES, RESPECTIVELY . PACKING MATERIAL TO BE RECESSED FROM TOP EDGE OF SLEEVE OR FROM TOP SURFACE OF CONCRETE IN CAST CONCRETE FLOOR ASSEMBLIES TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. PACKING MATERIAL TO BE RECESSED FROM BOTH EDGES OF SLEEVE OR FROM BOTH SURFACES OF ASSEMBLY IN WALLS AND IN FLOOR CONSTRUCTED WITH HOLLOW-CORE PRECAST CONCRETE UNITS TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

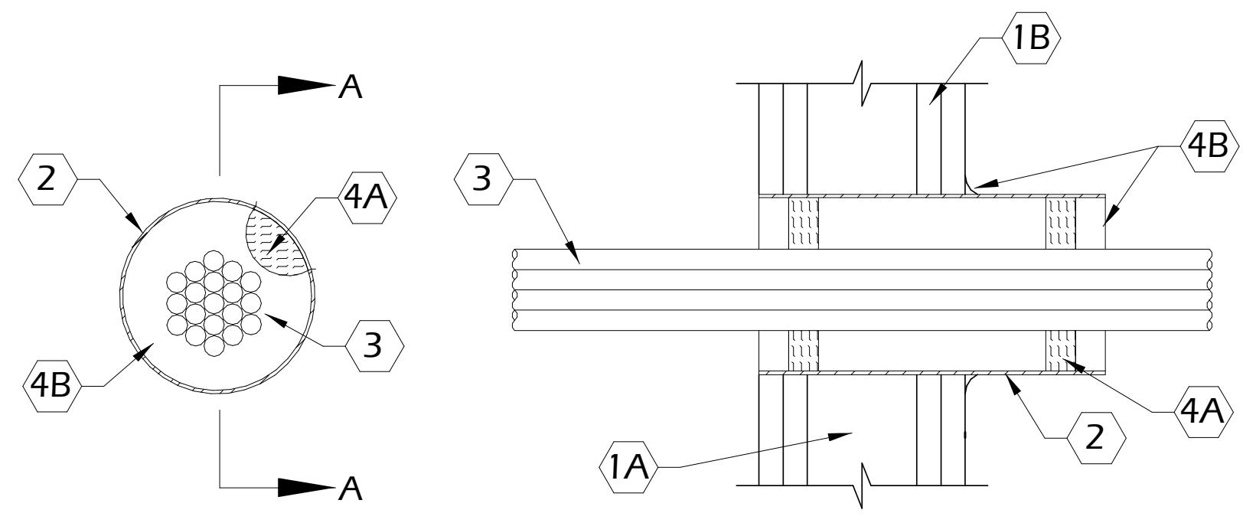
5. FILL, VOID OR CAVITY MATERIAL* - SEALANT OR PUTTY - MIN 1/2 IN. (13 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS FOR 2 AND 3 HR F RATINGS. MIN 3/4 IN. (19 MM) THICKNESS OF FILL MATERIAL APPLIED WITH THE ANNULUS FOR 4 HR F RATING. IN FLOORS, FILL MATERIAL TO BE INSTALLED FLUSH WITH TOP EDGE OF SLEEVE OR TOP SURFACE OF FLOOR. IN WALLS AND IN FLOOR CONSTRUCTED OF HOLLOW-CORE PRECAST CONCRETE UNITS, FILL MATERIAL TO BE INSTALLED FLUSH WITH BOTH ENDS OF SLEEVE OR BOTH SURFACES OF ASSEMBLY. F AND T RATINGS OF FIRESTOP SYSTEM ARE DEPENDENT UPON THE THROUGH OPENING SIZE, THICKNESS OF CONCRETE, SLEEVE TYPE AND PERCENT CABLE FILL, AS SHOWN IN THE FOLLOWING TABLE:

MAX OPENING DIAM	MIN CONCRETE THICKNESS	OPTIONAL SLEEVE TYPE	CABLE TYPE	PERCENT CABLE FILL	F RATING	T RATING
6 IN. (152 MM)	2-1/2 IN. (64 MM)	PVC	A TO H, 3A	37	2 HR	0 HR
6 IN. (152 MM)	2-1/2 IN. (64 MM)	PVC	H	45	2 HR	0 HR
6 IN. (152 MM)	2-1/2 IN. (64 MM)	STEEL	A TO H, 3A	37	2 HR	0 HR
6 IN. (152 MM)	2-1/2 IN. (64 MM)	STEEL	H	45	2 HR	0 HR
6 IN. (152 MM)	4-1/2 IN. (114 MM)	STEEL	A TO H, 3A	34	3 HR	1/2 HR
6 IN. (152 MM)	4-1/2 IN. (114 MM)	STEEL	H	45	3 HR	1/2 HR
2 IN. (52 MM)	4-1/2 IN. (114 MM)	STEEL	H	40	3 HR	2-3/4 HR
2 IN. (52 MM)	4-1/2 IN. (114 MM)	STEEL	H	40	4 HR	2-3/4 HR

SPECIFIED TECHNOLOGIES INC - SPECSEAL SERIES SSS SEALANT OR SPECSEAL LCI SEALANT. WHEN MIN FLOOR OR WALL THICKNESS IS 4-1/2 IN. (114 MM) , SPECSEAL PUTTY MAY BE USED.
*BEARING THE UL CLASSIFICATION MARK

DETAIL
NOT TO SCALE

1 FIRESTOP SYSTEM - C-AJ-3154



SECTION A-A

F RATINGS -1 AND 2 HR (SEE ITEM 1)
T RATING - 3/4 HR

KEY NOTES:

(APPLY TO THIS DETAIL ONLY)

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 X 4 IN. (51 X 102MM) LUMBER SPACED 16 IN. (406MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (76MM) WIDE AND SPACED MAX 14 IN. (610MM) OC.

   B. GYPSUM BOARD - THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM. OF OPENING IS 4-1/2 IN. (114MM).

   THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. STEEL SLEEVE - NOM. 4 IN. (102MM) DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT), STEEL CONDUIT OR SCHEDULE 5 (OR HEAVER) STEEL PIPE SLEEVE FRICTION-FITTED INTO WALL ASSEMBLY. SLEEVE MAY BE INSTALLED FLUSH WITH OR EXTEND UP TO 18 IN. (46 CM) BEYOND ONE OR BOTH WALL SURFACES.

3. CABLES - AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN STEEL SLEEVE TO BE MAX. 48 PERCENT OF THE AGGREGATE CROSS-SECTIONAL AREA OF THE SLEEVE. CABLES TO BE BUNDLED AND RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE ANNULAR SPACE BETWEEN THE CABLES AND THE SLEEVE SHALL BE MIN. 0 IN. (POINT CONTACT) TO MAX. 1-1/2 IN. (38MM). ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF COPPER CONDUCTOR CABLE MAY BE USED:

   A. MAX 200 PAIR NO. AWG (OR SMALLER) COPPER CONDUCTOR CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   B. MAX 3/C NO. 2/0 AWG (OR SMALLER) ALUMINUM OR COPPER CONDUCTOR SERVICE ENTRANCE CABLE WITH PVC INSULATION AND JACKET.
   C. MAX 3/C NO. 8 AWG (OR SMALLER) NONMETALLIC SHEATHED (ROMEX) CABLE WITH COPPER CONDUCTORS, PVC INSULATION AND JACKET.
   D. MAX 7/C NO. 2/0 AWG (OR SMALLER) MULTICONDUCTOR POWER AND CONTROL CABLES WITH XLPE OR PVC INSULATION AND XLPE OR PVC JACKET.
   E. MAX. RG/U (OR SMALLER) COAXIAL CABLE WITH FLOURINATED ETHYLENE INSULATION AND JACKETING.
   F. MAX. 62.5/48 FIBER OPTIC CABLE WITH PVC INSULATION AND JACKETING.
   G. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC INSULATION AND JACKET.
   H. MAX. 4/C NO 2/0 ALUMINUM OR COPPER CONDUCTOR ALUMINUM OR STEEL METAL-CLAD# OR ARMORED-CLAD# CABLE.

4. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

   A. PACKING MATERIAL - WHEN REQUIRED (SEE TABLE IN ITEM 3B), MIN. 1 IN. (25MM) THICKNESS OF MIN. 4.0 PCF (64 KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO EACH END OF SLEEVE AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM EACH END OF SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

   B. FILL, VOID OR CAVITY MATERIAL* - SEALANT OR PUTTY - FILL MATERIAL APPLIED TO APPROPRIATE THICKNESS WITHIN STEEL SLEEVE, FLUSH WITH EDGES OF STEEL SLEEVE ON BOTH SURFACES OF WALL. MIN. 1/2 IN. (13MM) DIAM. BEAD OF SEALANT OR "ROPE" OF PUTTY SHALL BE APPLIED AROUND THE PERIMETER OF THE SLEEVE ON EACH SIDE OF THE WALL WHEN SLEEVE EXTENDS BEYOND SURFACE OF WALL. SEE TABLE BELOW FOR FILL MATERIAL THICKNESS REQUIREMENTS.

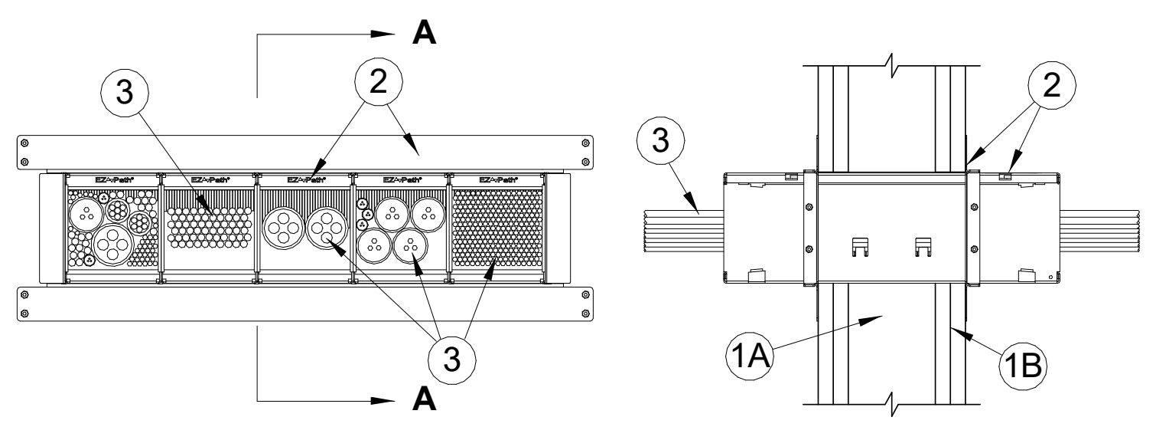
SEALANT OR PUTTY TYPE	THICKNESS	PACKING MATERIAL REQUIRED
SPECSEAL SERIES SSS SEALANT OR LCI SEALANT	1/2 IN. (13 MM)	YES
SPECSEAL SERIES SSS SEALANT OR LCI SEALANT	1 IN. (25 MM)	NO
SPECSEAL PUTTY	1 IN. (25 MM)	NO

SPECIFIED TECHNOLOGIES INC - SPECSEAL SERIES SSS SEALANT OR SPECSEAL LCI SEALANT. WHEN MIN FLOOR OR WALL THICKNESS IS 4-1/2 IN. (114 MM) , SPECSEAL PUTTY MAY BE USED.
*BEARING THE UL CLASSIFICATION MARK

DETAIL
NOT TO SCALE

2 FIRESTOP SYSTEM - W-L-3210

SYSTEM NO. W-L-3306
F RATINGS - 1 AND 2 HR
T RATINGS - 0, 1/2, 3/4, 1, 1-1/2 AND 2 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1, 2.3, 6.2, 6.7 OR 7.4 CFM/DEVICE MODULE (SEE ITEM 3)
L RATING AT 400F - LESS THAN 1, 2.3, 4.5, 5 OR 6.7 CFM/DEVICE MODULE (SEE ITEM 3)



Section A-A

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED WITHIN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCORPORATE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING SHALL CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED MAX 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. OPENING IN GYPSUM BOARD TO BE MAX 1/4 IN. (6 MM) LARGER THEN WIDTH AND HEIGHT DIMENSIONS OF FIRESTOP DEVICE(S).
   THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY RATING OF THE WALL IN WHICH IT IS INSTALLED.

2. FIRESTOP DEVICE* - ONE, TWO, THREE, FOUR OR FIVE FIRESTOP DEVICE MODULES GANGED TOGETHER AND SECURED BY MEANS OF INTEGRAL HOOK AND EYE WINDOW ATTACHMENT. EACH FIRESTOP DEVICE MODULE CONSISTS OF A 4 BY 4-5/8 BY 14 IN. (102 BY 118 BY 356 MM) LONG GALV STEEL TUBE WITH AN INTUMESCENT MATERIAL LINING. SERIES 44 DEVICE MODULES HAVE SPRING LOADED STEEL RETAINER PLATES. FIRESTOP DEVICE MODULES TO BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. THE SPACE BETWEEN THE FIRESTOP DEVICE MODULE(S) AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (0 MM, POINT CONTACT) TO MAX 1/8 IN. (3.2 MM). IN ROUND OPENINGS, THE SPACE BETWEEN THE FIRESTOP DEVICE AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (0MM, POINT CONTACT) TO MAX 1 IN. (25 MM). FIRESTOP DEVICE MODULE(S) SECURED IN PLACE BY MEANS OF STEEL WALL BRACKETS INSTALLED WITH GASKET MATERIAL SUPPLIED WITH PRODUCT. STEEL WALL BRACKETS INSTALLED ON BOTH SIDES OF WALL AND SECURED TO OUTERMOST DEVICE MODULES BY MEANS OF STEEL SET SCREWS PROVIDED WITH BRACKETS. WALL BRACKETS SECURED TO EACH SIDE OF WALL THROUGH PREDRILLED HOLES IN BRACKETS BY MEANS OF NOM 1/8 IN. (3.2 MM) TYPE G STEEL SCREWS. EACH FIRESTOP DEVICE MODULE IS TO BE INSTALLED WITH ENDS PROJECTING AN EQUAL DISTANCE BEYOND EACH SURFACE OF THE WALL ASSEMBLY. TO ACHIEVE AIR LEAKAGE RATINGS WITH THE SERIES 44 DEVICE MODULE ONLY, INTEGRAL HOOK AND EYE WINDOW ATTACHMENT LOCATIONS ON RIGHT AND LEFT SIDE OF SINGLE INSTALLED PATHWAYS AND GANGED PATHWAY GROUPS MUST BE SEALED USING THE STICKERS PROVIDED WITH DEVICE MODULE(S). AS AN ALTERNATE, THE MULTI-GANG STEEL WALL BRACKETS MAY BE INSTALLED DIRECTLY AGAINST THE STUDS FOR WALLS HAVING 24 IN. (610 MM) CENTER-TO-CENTER STUD SPACING PRIOR TO INSTALLATION OF THE GYPSUM BOARD LAYERS. THE STEEL WALL PLATES SHALL BE SECURED TO THE STUD BY MEANS OF STEEL SCREWS. AFTER INSTALLATION OF THE STEEL WALL PLATES AND FIRESTOP DEVICE MODULES, THE GYPSUM BOARD SHALL BE INSTALLED AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 DESIGN WITH A MAXIMUM 1/8 IN. (3.2 MM) GAP BETWEEN THE FIRESTOP DEVICE MODULE AND THE CUTOUT IN THE GYPSUM BOARD. GAP BETWEEN THE FIRESTOP DEVICE MODULE AND THE CUTOUT IN THE GYPSUM BOARD MAY BE FILLED WITH GYPSUM JOINT COMPOUND OR FILL MATERIAL (ITEM 4).
SPECIFIED TECHNOLOGIES INC - EZ PATH SERIES 44 OR SERIES 44+ FIRE RATED PATHWAY

2A. FIRESTOP DEVICE* - EXTENSION MODULE - (OPTIONAL, NOT SHOWN) - MODULE ATTACHED TO ENDS OF FIRESTOP DEVICE (ITEM 2) TO INCREASE ITS LENGTH TO FACILITATE INSTALLATION IN THICKER WALLS. EACH MODULE CONSISTS OF A 4 BY 4-5/8 BY 6 IN. (102 BY 118 BY 152 MM) LONG GALV STEEL TUBE WITH AN INTUMESCENT MATERIAL LINING. EXTENSION MODULE TO BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. WHEN MODULE IS USED, FIRESTOP DEVICE (ITEM 2) AND EXTENSION MODULE SECURED IN PLACE BY MEANS OF STEEL PLATES INSTALLED WITH GASKETING MATERIAL SUPPLIED WITH PRODUCT. STEEL PLATES INSTALLED ON BOTH SIDES OF WALL AND SECURED TO EACH DEVICE OR EXTENSION MODULE BY MEANS OF STEEL SET SCREWS PROVIDED WITH PLATES. FIRESTOP DEVICE AND EXTENSION MODULE ASSEMBLY TO BE INSTALLED WITH ENDS PROJECTING AN EQUAL DISTANCE BEYOND EACH SURFACE OF THE WALL ASSEMBLY.
SPECIFIED TECHNOLOGIES INC - EZ PATH SERIES 44+ EXTENSION

3. CABLES - WITHIN THE LOADING AREA FOR EACH FIRESTOP DEVICE MODULE, THE LOOSE OR GROUPED CABLES MAY REPRESENT A 0 TO 100 PERCENT VISUAL FILL. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES OF CABLES MAY BE USED:
   A. MAX 400 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR TELECOMMUNICATION CABLE WITH POLYVINYL CHLORIDE (PVC) OR PLENUM-RATED JACKETING AND INSULATION.
   B. MAX 750 KCMIL SINGLE COPPER CONDUCTOR POWER CABLE WITH XLPE JACKET AND INSULATION.
   C. MAX 7/C NO. 12 AWG COPPER CONDUCTOR CONTROL CABLE WITH PVC OR XLPE JACKET AND INSULATION.
   D. MAX 3/C NO. 2/0 AWG METAL CLAD OR ARMORED CABLE WITH STEEL OR ALUMINUM JACKET.
   E. MAX 3/C NO. 8 AWG NM CABLE (ROMEX) WITH PVC INSULATION AND JACKET.
   F. MAX FOUR PAIR NO. 22 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC OR PLENUM RATED JACKETING AND INSULATION.
   G. COAXIAL CABLE WITH FLUORINATED ETHYLENE OR PVC INSULATION AND JACKETING HAVING A MAX DIAM OF 5/8 IN. (16 MM).
   H. OPTICAL FIBER CABLE WITH PVC OR POLYETHYLENE (PE) JACKET AND INSULATION AND HAVING A MAX DIAM OF 5/8 IN. (16 MM).
   I. OPTICAL FIBER RACEWAY+ - MAX 1-1/2 IN. (38 MM) DIAM (OR SMALLER) OPTICAL FIBER RACEWAY ("INNERDUCT") FORMED OF EITHER PVC OR POLYVINYLIDENE FLUORIDE (PVDF) WITH OPTICAL FIBER CABLE FILL. RACEWAYS INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA 70).

   FOR THE SERIES 44 FIRESTOP DEVICE AND WHEN ITEM 3A IS USED, THE T RATING IS 1 HR. WHEN ITEM 3B, 3C, 3D OR 3E IS USED, THE T RATING IS 1/2 HR. WHEN ITEM 3F OR 3G IS USED, THE T RATING IS 1 AND 1-1/2 HR FOR 1 AND 2 HR RATED ASSEMBLIES RESPECTIVELY. WHEN ITEM 3H IS USED, THE T RATING IS 1 OR 2 HR FOR 1 AND 2 HR RATED ASSEMBLIES RESPECTIVELY. WHEN ITEM 3I IS USED, THE T RATING IS 3/4 HR. WHEN DEVICE IS EMPTY, THE T RATING IS 0 HR.

   FOR THE SERIES 44+ FIRESTOP DEVICE AND WHEN ITEM 3A, 3B, 3C, 3D OR 3E IS USED, THE T RATING IS 1 HR. WHEN ITEM 3F OR 3G IS USED, THE T RATING IS 1 AND 1-1/2 HR FOR 1 AND 2 HR RATED ASSEMBLIES RESPECTIVELY. WHEN ITEM 3H IS USED, THE T RATING IS 1 AND 2 HR FOR 1 AND 2 HR RATED ASSEMBLIES RESPECTIVELY. WHEN ITEM 3I IS USED, THE T RATING IS 3/4 HR. WHEN DEVICE IS EMPTY, THE T RATING IS 1-1/2 HR.

   FOR THE SERIES 44 FIRESTOP DEVICE, THE L RATING FOR EACH EMPTY FIRESTOP DEVICE MODULE IS 2.3 CFM AT AMBIENT AND AT 400F. WHEN ITEM 3A IS USED, THE L RATING WITH 100 PERCENT VISUAL FILL OF CABLE IS 7.4 CFM/FIRESTOP DEVICE MODULE AT AMBIENT AND 5 CFM/FIRESTOP DEVICE MODULE AT 400F. WHEN ITEM 3F OR 3G IS USED, THE L RATING WITH 100 PERCENT VISUAL FILL OF CABLE IS 6.2 CFM/FIRESTOP DEVICE MODULE AT AMBIENT AND 4.5 CFM/FIRESTOP DEVICE MODULE AT 400F.

   FOR THE SERIES 44+ FIRESTOP DEVICE, THE L RATING FOR EACH EMPTY FIRESTOP DEVICE IS LESS THAN 1 CFM AT AMBIENT AND AT 400 F. WHEN ITEM 3A IS USED, THE L RATING WITH 100 PERCENT VISUAL FILL OF CABLE IS 7.4 CFM/FIRESTOP DEVICE MODULE AT AMBIENT AND 5 CFM/FIRESTOP DEVICE MODULE AT 400F. WHEN ITEM 3F OR 3G IS USED, THE L RATING WITH 100 PERCENT VISUAL FILL OF CABLE IS 6.7 CFM/FIRESTOP DEVICE MODULE AT AMBIENT AND AT 400F.

4. FILL, VOID OR CAVITY MATERIAL* - SEALANT OR PUTTY - (NOT SHOWN) - AS AN ALTERNATE TO GYPSUM JOINT COMPOUND, THE GAP BETWEEN THE FIRESTOP DEVICE MODULE AND THE CUTOUT IN THE GYPSUM BOARD MAY BE SEALED WITH FILL MATERIAL ON EACH SIDE OF THE WALL ASSEMBLY WHEN FOUR- AND SEVEN-GANG STEEL WALL PLATES ARE INSTALLED DIRECTLY AGAINST THE WOOD OR STEEL STUDS.
SPECIFIED TECHNOLOGIES INC - SPECSEAL SERIES SSS SEALANT, SPECSEAL LCI SEALANT, SPECSEAL PUTTY
+BEARING THE UL LISTING MARK
*BEARING THE UL CLASSIFICATION MARK

DETAIL
NOT TO SCALE

3 EZ PATH W-L-3306 1 AND 2 HR RATING

J&A
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CONSULTANTS
4994 LOWER ROSWELL ROAD - SUITE ONE
MARIETTA, GEORGIA 30068
770.817.4220
www.jaengineering.net

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architects
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at

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for

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Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	WP	KP
25 APR 25	ISSUE FOR PERMIT	WP	KP

Revisions

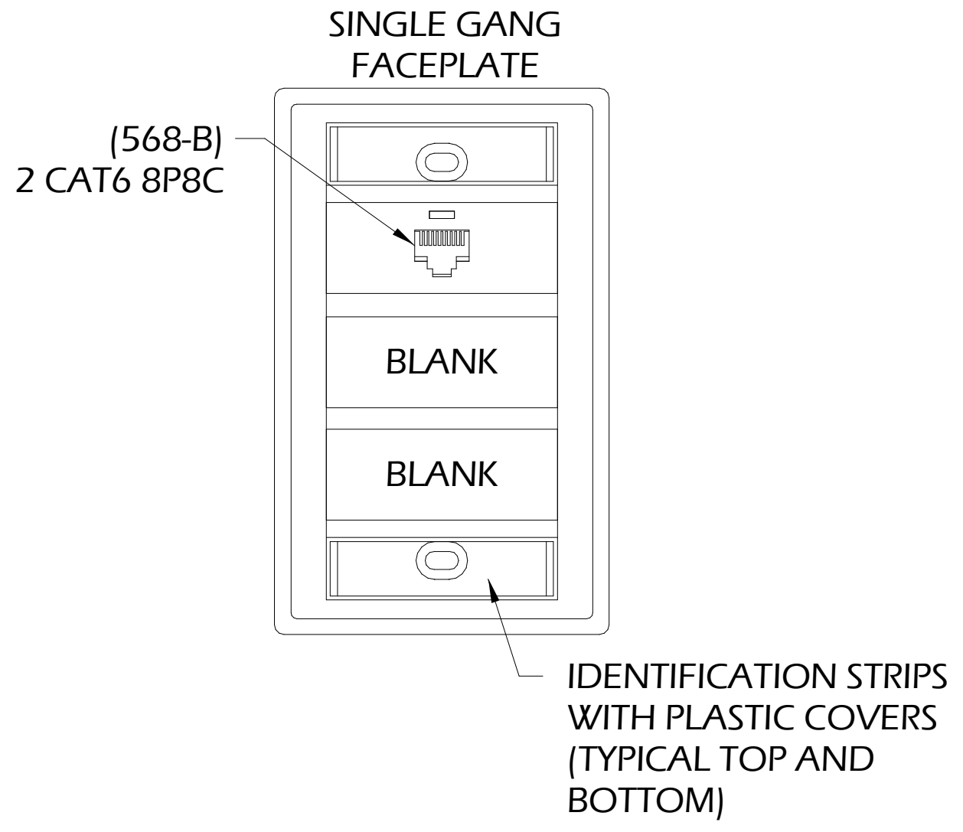
Date
25 APRIL 2025

Project No.
2024509.00

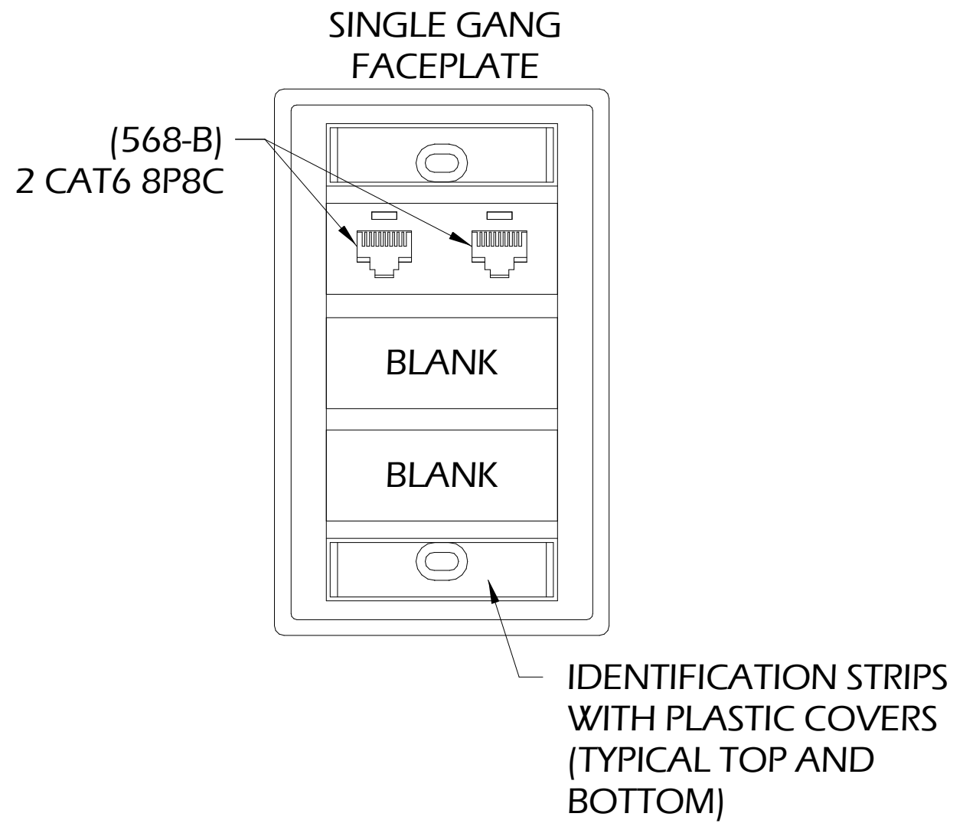
Sheet Title
DETAILS

Sheet No.
LV-501

■ Released for Construction
☐ Not Released for Construction


SINGLE GANG FACEPLATE
(568-B) 2 CAT6 8P8C
BLANK
BLANK
IDENTIFICATION STRIPS WITH PLASTIC COVERS (TYPICAL TOP AND BOTTOM)

DETAIL 1 NOT TO SCALE
TYPICAL 1-PORT OUTLET


SINGLE GANG FACEPLATE
(568-B) 2 CAT6 8P8C
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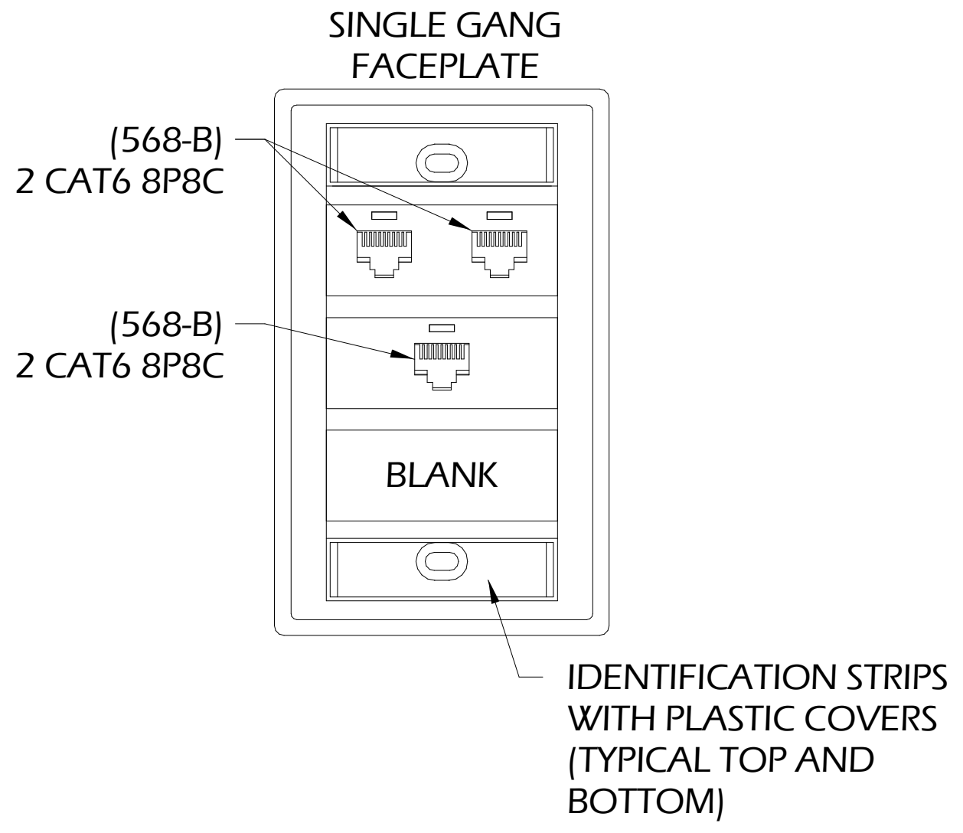
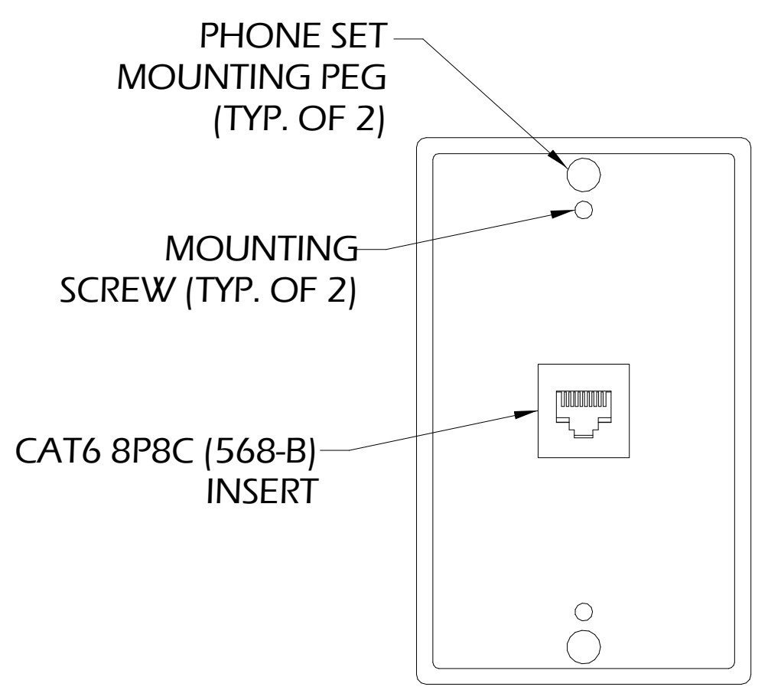
BLANK
IDENTIFICATION STRIPS WITH PLASTIC COVERS (TYPICAL TOP AND BOTTOM)

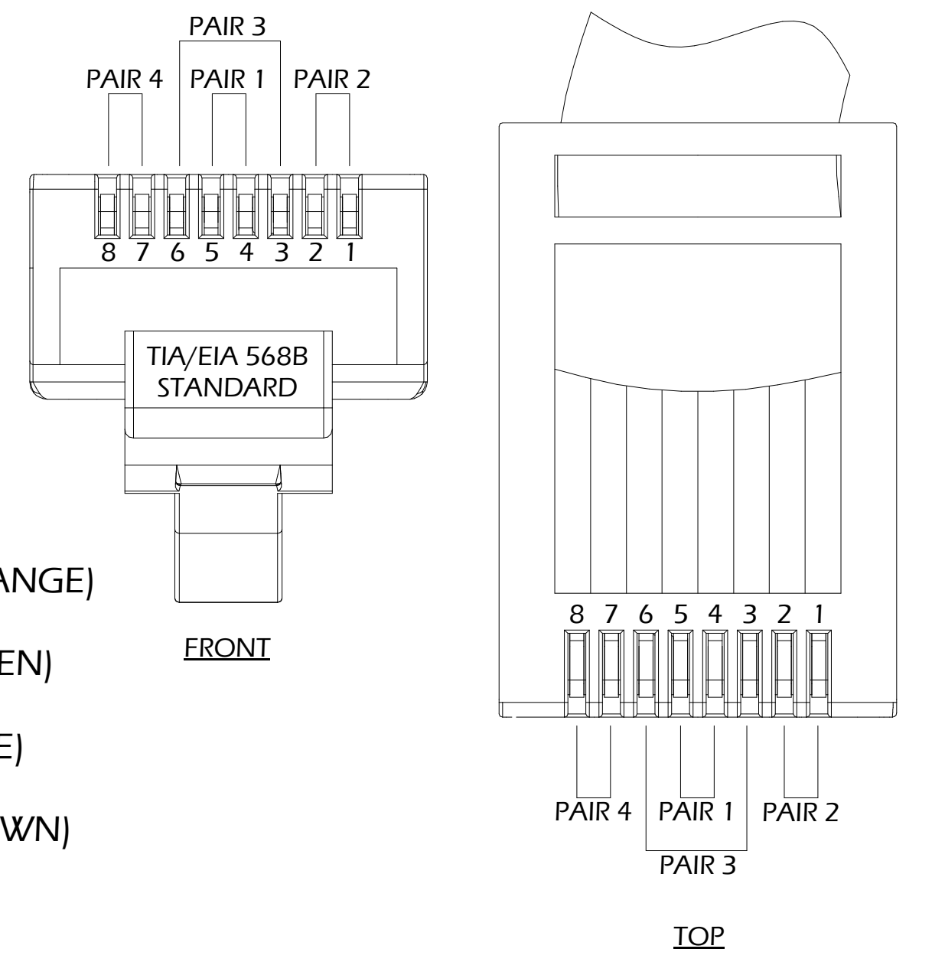
DETAIL 2 NOT TO SCALE
TYPICAL 2-PORT OUTLET


SINGLE GANG FACEPLATE
(568-B) 2 CAT6 8P8C
(568-B) 2 CAT6 8P8C
BLANK
IDENTIFICATION STRIPS WITH PLASTIC COVERS (TYPICAL TOP AND BOTTOM)

DETAIL 3 NOT TO SCALE
TYPICAL 3-PORT OUTLET

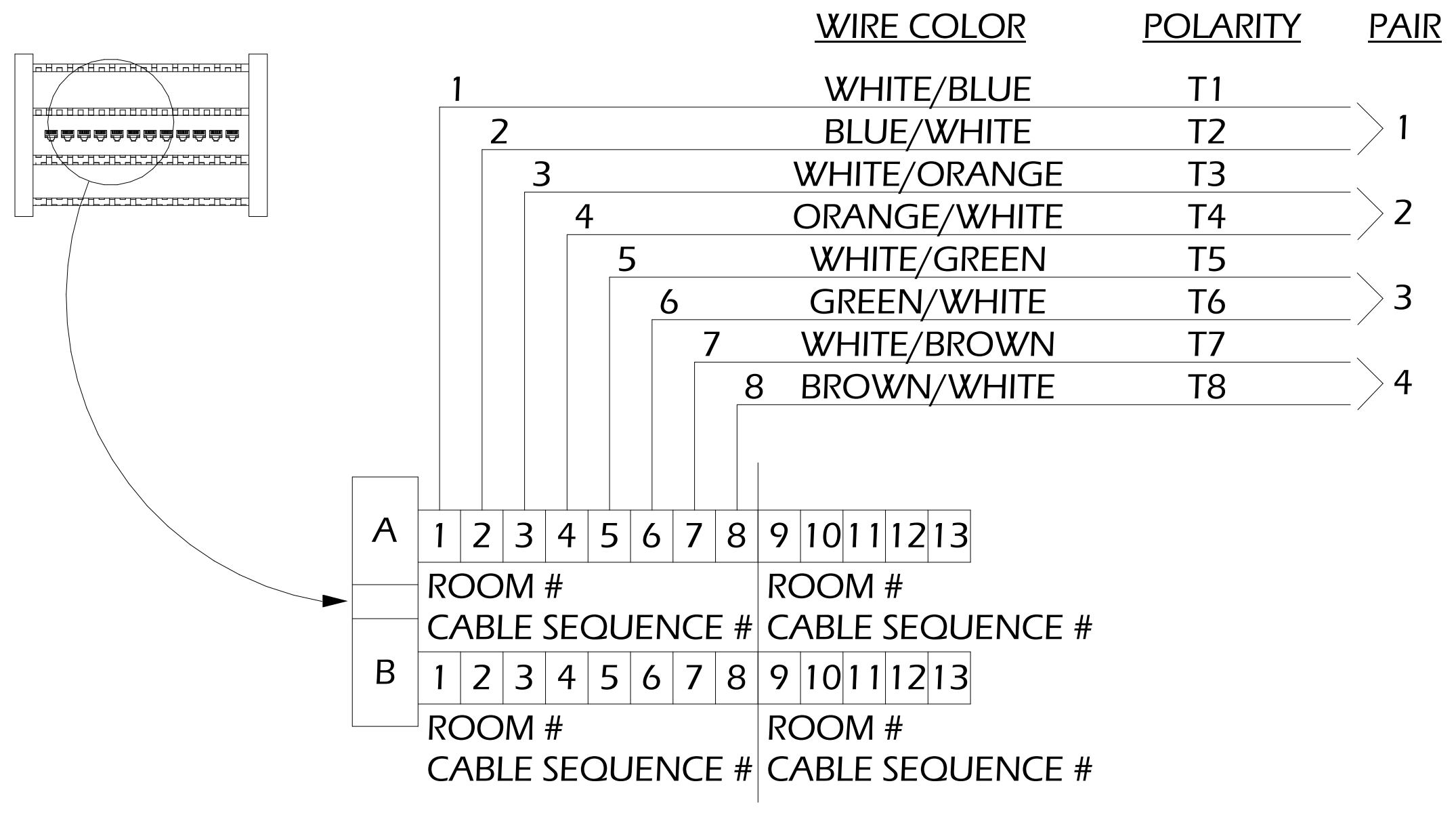

PHONE SET MOUNTING PEG (TYP. OF 2)
MOUNTING SCREW (TYP. OF 2)
CAT6 8P8C (568-B) INSERT

DETAIL 4 NOT TO SCALE
SINGLE GANG PHONE WALL PLATE WITH MOUNTING PEGS
TYPICAL 1 VOICE OUTLET


PAIR 3
PAIR 4
PAIR 1
PAIR 2
8 7 6 5 4 3 2 1
TIA/EIA 568B STANDARD
FRONT
8 7 6 5 4 3 2 1
PAIR 4
PAIR 1
PAIR 2
PAIR 3
TOP

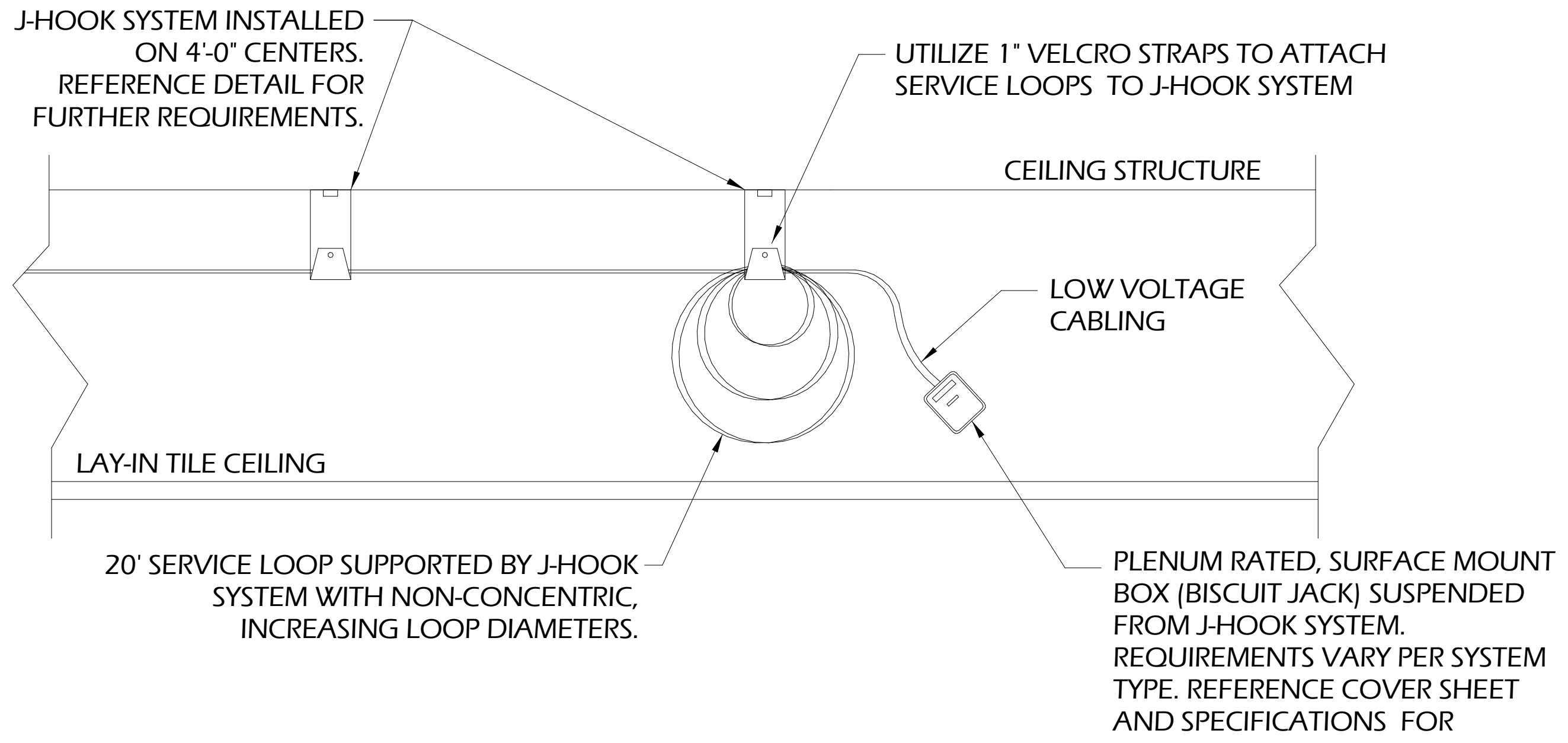
1........T2 (WHITE/ORANGE)
2........R2 (ORANGE)
3........T3 (WHITE/GREEN)
4........R1 (BLUE)
5........T1 (WHITE/BLUE)
6........R3 (GREEN)
7........T4 (WHITE/BROWN)
8........R4 (BROWN)

DETAIL 5 NOT TO SCALE
RJ45 JACK TERMINATION


A
1 2 3 4 5 6 7 8 9 10 11 12 13
ROOM #
CABLE SEQUENCE #
ROOM #
CABLE SEQUENCE #
B
1 2 3 4 5 6 7 8 9 10 11 12 13
ROOM #
CABLE SEQUENCE #
ROOM #
CABLE SEQUENCE #

	WIRE COLOR	POLARITY	PAIR
1	WHITE/BLUE	T1	1
2	BLUE/WHITE	T2	
3	WHITE/ORANGE	T3	2
4	ORANGE/WHITE	T4	
5	WHITE/GREEN	T5	3
6	GREEN/WHITE	T6	
7	WHITE/BROWN	T7	4
8	BROWN/WHITE	T8	

DETAIL 6 NOT TO SCALE
TYPICAL VOICE PUNCHDOWN BLOCK INSTALLATION DETAIL

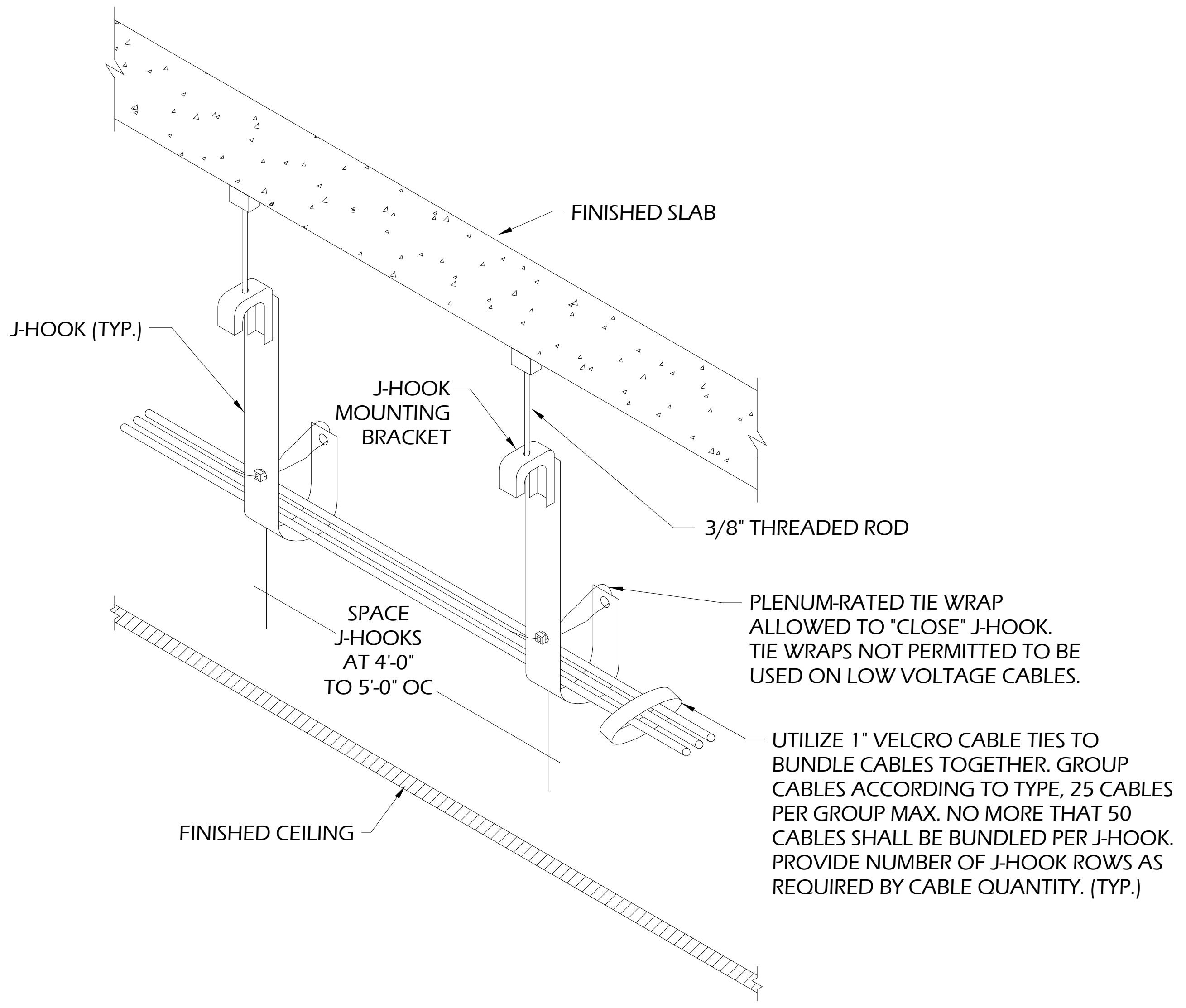

J-HOOK SYSTEM INSTALLED ON 4'-0" CENTERS. REFERENCE DETAIL FOR FURTHER REQUIREMENTS.
UTILIZE 1" VELCRO STRAPS TO ATTACH SERVICE LOOPS TO J-HOOK SYSTEM
CEILING STRUCTURE
LOW VOLTAGE CABLING
LAY-IN TILE CEILING
20' SERVICE LOOP SUPPORTED BY J-HOOK SYSTEM WITH NON-CONCENTRIC, INCREASING LOOP DIAMETERS.
PLENUM RATED, SURFACE MOUNT BOX (BISCUIT JACK) SUSPENDED FROM J-HOOK SYSTEM. REQUIREMENTS VARY PER SYSTEM TYPE. REFERENCE COVER SHEET AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.

GENERAL NOTES:

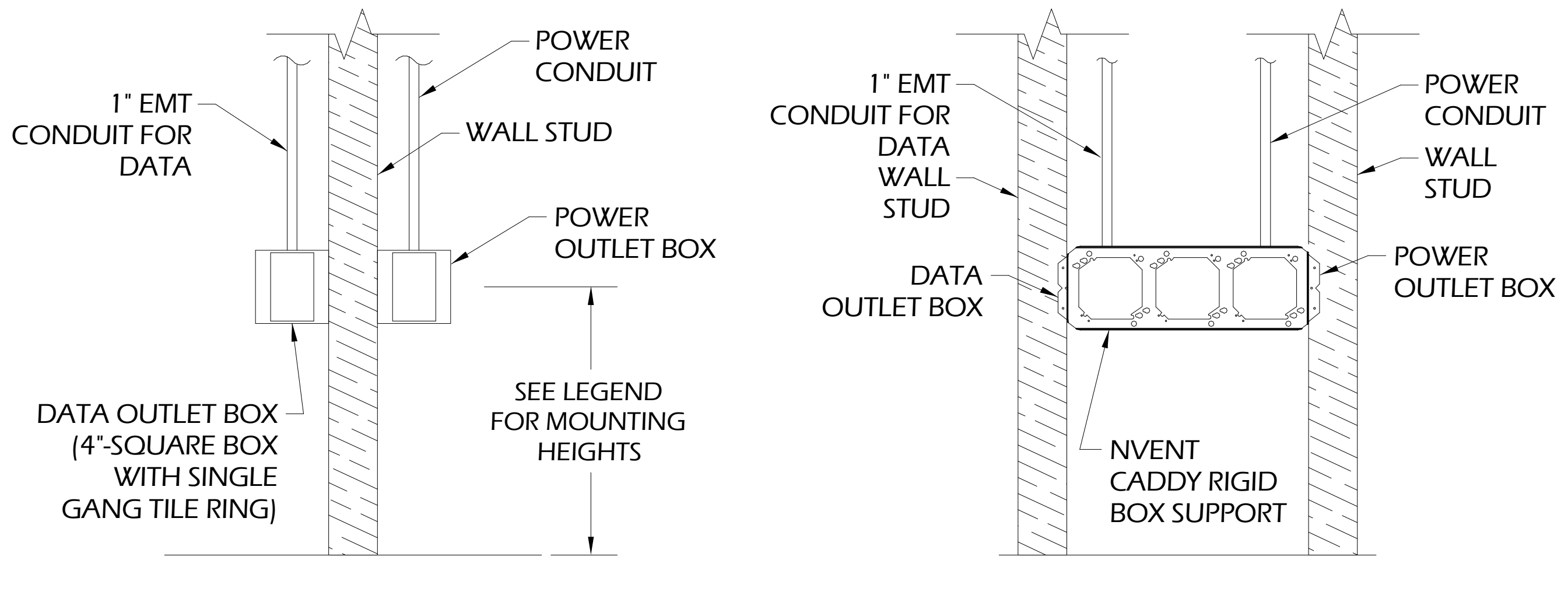
A. BISCUIT JACK SHALL BE PLENUM RATED, SINGLE PORT, CATEGORY 6 TYPE FOR ALL VIDEO SURVEILLANCE CAMERA LOCATIONS.

B. BISCUIT JACK SHALL BE PLENUM RATED, SINGLE PORT, CATEGORY 6A TYPE FOR ALL WIRELESS DATA ACCESS POINT LOCATIONS.

DETAIL 7 NOT TO SCALE
SUSPENDED BISCUIT JACK


FINISHED SLAB
J-HOOK (TYP.)
J-HOOK MOUNTING BRACKET
3/8" THREADED ROD
SPACE J-HOOKS AT 4'-0" TO 5'-0" OC
PLENUM-RATED TIE WRAP ALLOWED TO "CLOSE" J-HOOK. TIE WRAPS NOT PERMITTED TO BE USED ON LOW VOLTAGE CABLES.
UTILIZE 1" VELCRO CABLE TIES TO BUNDLE CABLES TOGETHER. GROUP CABLES ACCORDING TO TYPE, 25 CABLES PER GROUP MAX. NO MORE THAT 50 CABLES SHALL BE BUNDLED PER J-HOOK. PROVIDE NUMBER OF J-HOOK ROWS AS REQUIRED BY CABLE QUANTITY. (TYP.)
FINISHED CEILING

DETAIL 8 NOT TO SCALE
ACCESSIBLE CEILING J-HOOK INSTALLATION DETAIL


1" EMT CONDUIT FOR DATA
POWER CONDUIT
WALL STUD
POWER OUTLET BOX
SEE LEGEND FOR MOUNTING HEIGHTS
DATA OUTLET BOX (4"-SQUARE BOX WITH SINGLE GANG TILE RING)
1" EMT CONDUIT FOR DATA
WALL STUD
DATA OUTLET BOX
POWER CONDUIT
WALL STUD
POWER OUTLET BOX
NVENT CADDY RIGID BOX SUPPORT

SHARED STUD TYPE

ADJACENT STUD TYPE

GENERAL NOTES:

A. ALL DATA OUTLETS TO BE COORDINATED WITH ELECTRICAL POWER LOCATIONS. DATA OUTLETS SHALL BE MOUNTED ADJACENT TO POWER RECEPTACLES AT SAME HEIGHT.

B. DATA OUTLET SHALL EITHER BE MOUNTED ON OPPOSITE SIDE OF SHARED STUD AS POWER OR DATA SHALL BE MOUNTED ON ADJACENT STUD TO POWER IN SAME WALL CAVITY.

C. TYPICAL DATA OUTLET HEIGHT SHALL BE 18", UNLESS OTHERWISE NOTED.COORDINATE EXACT MOUNTING HEIGHTS AND ORIENTATION WITH ELECTRICAL AND ARCHITECTURAL PLAN.

D. CONTRACTOR TO VERIFY ALL DATA OUTLETS TO BE PROVIDED WITH ADJACENT POWER RECEPTACLE. SUBMIT RFI IF CONDITION DOES NOT EXIST.

DETAILS 9 NOT TO SCALE
TYPICAL DATA OUTLET INSTALLATION REQUIREMENTS

J&A ENGINEERING CONSULTANTS
4994 LOWER ROSWELL ROAD - SUITE ONE
MARIETTA, GEORGIA 30068
770.817.4220
www.jaengineering.net

RANDALL PAULSON architects
Roswell . Nashua

No. PE048042
KALEB R PERKINS

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

architecture/interiors

INTERIOR RENOVATION

at

MARCUS STROKE AND NEUROSCIENCE ANGIO 1 REPLACEMENT

for

Grady

GRADY MEMORIAL HOSPITAL
SUITE 8-A
80 JESSE HILL, JUNIOR DRIVE
SE
ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	WP	KP
25 APR 25	ISSUE FOR PERMIT	WP	KP

Revisions

Date 25 APRIL 2025
Project No. 2024509.00
Sheet Title DETAILS
Sheet No. LV-502

■ Released for Construction
☐ Not Released for Construction

FIRE PROTECTION DESIGN DATA

FIRE PROTECTION DESIGN CRITERIA SHALL BE AS STATED BELOW. ALL AREAS SHALL BE CONSIDERED AS LIGHT HAZARD OCCUPANCY AS DEFINED BY NFPA 13 UNLESS SPECIFICALLY NOTED OTHERWISE OR SHOWN ON THE DRAWINGS.

LIGHT HAZARD:

1. DESIGN DENSITY: .10 GPM/SQFT.
2. HYDRAULICALLY REMOTE AREA SIZE: 1,500 SQFT. REMOTE AREA SIZE MAY BE REDUCED AS ALLOWED BY NFPA AND OWNER'S INSURANCE UNDERWRITER.
3. SPRINKLER ORIFICE SIZE: 1/2".
4. DURATION OF SUPPLY: 30 MINUTES
5. MAXIMUM COVERAGE PER SPRINKLER HEAD: 225 SQ/FT.
6. HOSE STREAM ALLOWANCE: 100 GPM.

ORDINARY HAZARD GROUP 1:

1. DESIGN DENSITY: .15 GPM/SQFT.
2. HYDRAULICALLY REMOTE AREA SIZE: 1,500 SQFT.
3. SPRINKLER ORIFICE SIZE: 1/2".
4. DURATION OF SUPPLY: 60 - 90 MINUTES
5. MAXIMUM COVERAGE PER SPRINKLER HEAD: 130 SQ/FT.
6. HOSE STREAM ALLOWANCE: 250 GPM.

APPLICABLE CODES AND STANDARDS

ALL WORK CONTAINED WITHIN THESE DOCUMENTS SHALL BE IN FULL COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING.

1. INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS INTERNATIONAL FIRE CODE, 2018 EDITION, WITH GEORGIA AMENDMENTS
2. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 101, LIFE SAFETY CODE, 2018 EDITION WITH STATE AMENDMENTS.
3. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13, INSTALLATION OF SPRINKLER SYSTEMS, 2013 EDITION WITH STATE AMENDMENTS.
4. NATIONAL ELECTRICAL CODE, 2023 EDITION.
5. FM GLOBAL STANDARDS AND DATA SHEETS

DELEGATED DESIGN NOTES

FIRE PROTECTION CONTRACTOR SHALL DESIGN A FULLY AUTOMATIC WET-PIPE SPRINKLER SYSTEM TO THE CRITERIA SPECIFIED UNDER FIRE PROTECTION DATA THIS SHEET AND THE FOLLOWING DESIGN CRITERIA.

1. PIPING SYSTEM SHALL HAVE A MAXIMUM PIPE VELOCITY OF 20 FEET PER SECOND.
2. HYDRAULIC CALCULATIONS SHALL BE BASED ON DENSITY/AREA METHOD.
3. EXTENDED COVERAGE SPRINKLER HEADS ARE PROHIBITED.
4. MINIMUM PIPE SIZING SHALL BE AS FOLLOWS. LARGER PIPE SIZING SHALL BE PROVIDED (AS DETERMINED BY HYDRAULIC CALCULATIONS) IF REQUIRED AT NO ADDITIONAL COST. BRANCH LINE SIZING SHALL BE ONE TO TWO SPRINKLER HEADS = 1". THREE SPRINKLER HEADS = 1-1/4", FOUR TO SIX HEADS = 1-1/2", SEVEN OF MORE HEADS = 2". SPRINKLER MAINS SHALL BE A MINIMUM OF 3" FOR "LOOP" SYSTEMS, 4" FOR "TREE" SYSTEMS AND 2" HEADERS CONNECTED BY 1-1/2" BRANCH LINES FOR "GRIDDED" SYSTEMS.
5. CONSULT AND INCORPORATE OWNERS INSURANCE CARRIER'S REQUIREMENTS INTO SPRINKLER SYSTEM DESIGN.

FIRE HYDRANT FLOW TEST

STATIC PRESSURE (PSI): XX
RESIDUAL PRESSURE (PSI): XX
FLOW (GPM): XX

FLOW HYDRANT LOCATION:
TEST HYDRANT LOCATION:

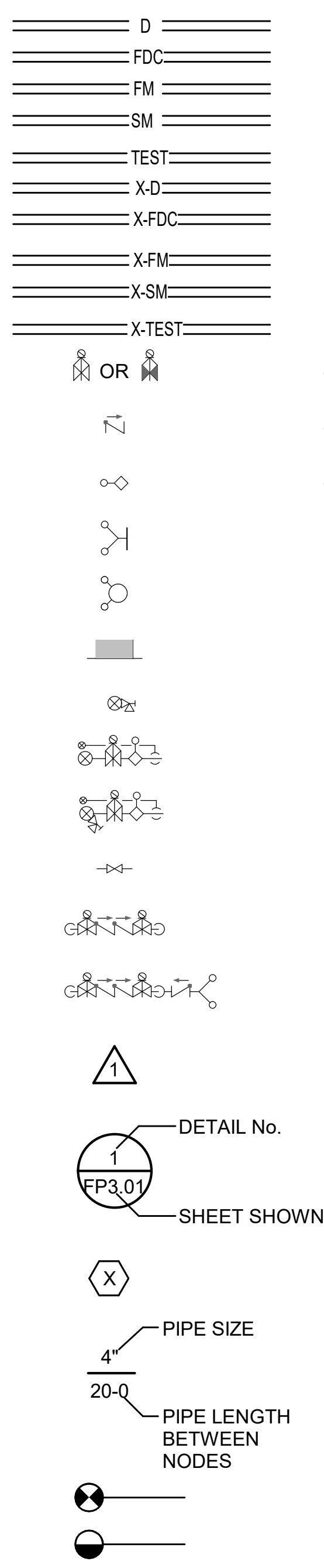
DATE: XX
TIME: XX

TEST CONDUCTED BY:

FIRE PROTECTION DRAWING INDEX

SHEET	DESCRIPTION
FP001	FIRE PROTECTION SYMBOLS, LEGEND, NOTES AND INDEX
FP101	FIRE PROTECTION PLAN AND DETAILS

FIRE PROTECTION SYMBOL LEGEND



SYMBOL	DESCRIPTION
D	- DRAIN LINE
FDC	- FIRE DEPARTMENT SIAMESE CONNECTION PIPING
FM	- FIRE MAIN
SM	- SPRINKLER MAIN
TEST	- FIRE PUMP TEST HEADER PIPING
X-D	- EXISTING DRAIN LINE
X-FDC	- EXISTING FIRE DEPARTMENT SIAMESE CONNECTION PIPING
X-FM	- EXISTING FIRE MAIN
X-SM	- EXISTING SPRINKLER MAIN
X-TEST	- EXISTING FIRE PUMP TEST HEADER PIPING
OR	- CONTROL VALVE W/ TAMPER SWITCH
	- CHECK VALVE
	- FLOW SWITCH
	- FIRE DEPARTMENT CONNECTION (WALL MOUNTED)
	- FIRE DEPARTMENT CONNECTION (SIDEWALK SIAMESE)
	- FIRE VALVE CABINET
	- STANDPIPE WITH FIRE DEPARTMENT VALVE
	- SPRINKLER DRAIN RISER
	- COMBINATION RISER
	- DRAIN VALVE
	- BACKFLOW PREVENTOR
	- BACKFLOW PREVENTOR W/ FDC
1	- REVISION REFERENCE
DETAIL No. 1 FP3.01 SHEET SHOWN ON	- DETAIL REFERENCE CALLOUT
X	- HYDRAULIC CALCULATION NODE
PIPE SIZE 4" 20-0 PIPE LENGTH BETWEEN NODES	- PIPE TAG
	- CONNECT TO EXISTING
	- DEMOLISH TO POINT INDICATED

SPRINKLER HEAD LEGEND

SYMBOL	STYLE	ORF	TEMP	RESPONSE	K-FAC	FINISH	MFG	MFG
◍	SEMI-RECESSED	1/2"	155°	QUICK	5.6	CHROME	VICTAULIC	V2708
◍ 212°	SEMI-RECESSED	1/2"	212°	QUICK	5.6	CHROME	VICTAULIC	V2708
◍ CR	SEMI-RECESSED, CORROSION RESISTANT, NICKEL COATING	1/2"	200°	QUICK	5.6	NICKEL COATING	VICTAULIC	VC2708 HEAD WITH VC-250 FINISH
⊠	SEMI-RECESSED W/ GUARD	1/2"	155°	QUICK	5.6	CHROME	VICTAULIC	V2708/V2724
◎	CONCEALED	1/2"	155°	QUICK	5.6	WHITE	VICTAULIC	V3802
⊗	UPRIGHT W/ GUARD	1/2"	155°	QUICK	5.6	BRASS	VICTAULIC	V2704/V2722
⊗ 212°	UPRIGHT W/ GUARD	1/2"	212°	QUICK	5.6	BRASS	VICTAULIC	V2704/V2722
△	DRY PENDANT	1/2"	155°	QUICK	5.6	CHROME	VICTAULIC	V3608
◁	HORIZONTAL SIDEWALL	1/2"	155°	QUICK	5.6	CHROME	VICTAULIC	V2710

NOTE: CONTRACTOR TO PROVIDE SAMPLE COLORS AND FINISHES TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING. CONCEALED SPRINKLER HEADS

FIRE PROTECTION ABBREVIATIONS

SYMBOL	DESCRIPTION
AFF	- ABOVE FINISH FLOOR
CONT	- CONTINUATION
DN	- DOWN
DWG	- DRAWING
EXIST	- EXISTING
°F	- DEGREE FAHRENHEIT
GPH	- GALLONS PER HOUR
GPM	- GALLONS PER MINUTE
KW	- KILOWATT
LBS	- POUNDS
NC	- NORMALLY CLOSED
NIC	- NOT IN CONTRACT
NO	- NORMALLY OPEN
NTS	- NOT TO SCALE
PRV	- PRESSURE REDUCING VALVE
PSI	- POUNDS PER SQUARE INCH
PVC	- POLYVINYL CHLORIDE PIPE
RPBP	- REDUCED PRESSURE BACKFLOW PREVENTER
SF	- SQUARE FEET
SH	- SHEET
WTR	- WATER
ETR	- EXISTING TO REMAIN

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT

FIRE PROTECTION NOTES

1. FINAL INSPECTION AND APPROVAL BY LOCAL FIRE MARSHAL AND ARCHITECT/ENGINEER.
2. SPRINKLER SHOP DRAWINGS AND MATERIAL SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND STATE FIRE MARSHAL AND SHALL BE APPROVED PRIOR TO ANY INSTALLATION. ELECTRONIC SUBMITTALS SHALL BE IN A SEARCHABLE FORMAT. DO NOT SUBMIT SCANNED DOCUMENTS.
3. PIPE ROUTING SHOWN IS SCHEMATIC ONLY. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE ANY ADDITIONAL OFFSETS REQUIRED FOR PROPER INSTALLATION AND COORDINATION WITH OTHER TRADES.
4. PIPING IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF THE SPACE.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS AND HEIGHTS.
6. SPRINKLERS ARE TO BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS. ALL OTHER TRADES TAKE PRECEDENCE OVER SPRINKLER HEAD LOCATION UNLESS INDICATED OTHERWISE ON DRAWINGS. SPACING OF SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA 13 AND THE LISTING OF THE SPRINKLER.
7. SPRINKLER HEADS SHALL BE SYMMETRICALLY LOCATED IN ROOM OR AREA BEING PROTECTED. SPRINKLER LOCATIONS SHALL BE CENTERED IN THE TILE. PROVIDE ARMOVER OR SWING JOINT AS REQUIRED.
8. SPRINKLERS IN AREAS WITH EXPOSED STRUCTURE (OBSTRUCTED CONSTRUCTION) SHALL BE INSTALLED WITH DEFLECTOR 1" BELOW THE BOTTOM OF THE BEAM (MAXIMUM 22" BELOW ROOF DECK). EXPOSED BAR JOISTS THAT HAVE SPRAY-ON FIRE PROOFING THAT MAKES THE JOIST SOLID SHALL BE TREATED LIKE A BEAM WITH THE SPRINKLERS 1" BELOW THE BOTTOM OF THE FIRE PROOFING.
9. SLEEVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND FLOORS WITH U/L LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
10. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.
11. PROVIDE A PERMANENTLY ATTACHED NAME TAG TO THE RISER STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY-DESIGNED SYSTEM.
12. PROVIDE SPRINKLERS UNDERNEATH ALL EXPOSED OBSTRUCTIONS INCLUDING DUCTWORK WHICH IS OVER 48" WIDE AND SPACE HEADS AROUND ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13. HEADS UNDER OBSTRUCTIONS ARE NOT INDICATED ON THE DRAWINGS BUT ARE REQUIRED AND SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13. SPRINKLER LOCATIONS UNDER AND AROUND OBSTRUCTIONS SHALL BE GOVERNED BY FINAL INSTALLED LOCATIONS.
13. PROVIDE SPRINKLER GUARDS ON ALL HEADS IN ELECTRIC ROOMS, TELEPHONE ROOMS, MECHANICAL ROOMS, ELEVATOR ROOMS, ELEVATOR SHAFTS AND ON ANY HEADS LESS THAN 7'-0" ABOVE THE FLOOR.
14. IF SYSTEM PRESSURE EXCEEDS 100 PSI, ALL HANGERS ON END HEADS IN PENDANT POSITION SHALL BE WITHIN 12" OF END OF LINE IN ACCORDANCE WITH NFPA 13.
15. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER ELECTRICAL SHALL BE REROUTED AT NO ADDITIONAL COST. PIPING ENTERING ELECTRICAL AND COMMUNICATION ROOMS SHALL BE PROVIDED WITH INDICATING TYPE CONTROL VALVE WITH TAMPER SWITCH AND ENTER OVER ENTRY DOOR. SPRINKLER HEADS IN ELECTRICAL AND COMMUNICATION SHALL BE INTERMEDIATE TEMPERATURE.
16. PROVIDE AUXILIARY DRAINS TO DRAIN ALL SECTIONS OF PIPING IN THE BUILDING AS REQUIRED BY NFPA 13.
17. PAINT ALL PIPING EXPOSED TO THE PUBLIC, COORDINATE COLOR WITH ARCHITECT AND FACILITY STANDARDS.
18. THE FIRE PROTECTION SYSTEMS AND INFORMATION SHOWN WITHIN THESE DRAWINGS AND THE SPECIFICATIONS, REPRESENT THE DESIGN INTENT OF THE ENGINEER OF RECORD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT LAYOUT DRAWINGS TO THE AUTHORITY HAVING JURISDICTION FOR PERMITTING AND REVIEW. THE LAYOUT DRAWINGS SHALL BE IN COMPLIANCE WITH NFPA 13, WORKING PLANS.
19. ALL VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES AND ALL ZONES SHALL BE PROVIDED WITH FLOW SWITCHES WIRED TO THE FIRE ALARM SYSTEM.
20. SPRINKLER HEADS LOCATED IN ELEVATOR SHAFTS AND ELEVATOR MACHINE ROOMS MUST BE INSTALLED WITHIN 2 FEET OF HEAT DETECTOR. COORDINATE CLOSELY WITH FIRE ALARM CONTRACTOR. SPRINKLER HEADS SHALL BE INTERMEDIATE TEMPERATURE (212 DEGREE F).
21. REFER TO PROJECT SPECIFICATIONS FOR FIRE SPRINKLER HYDRAULIC CALCULATIONS.
22. NOTIFY OWNER AT LEAST 48 HOURS PRIOR TO INTERRUPTING EXISTING SERVICES. SCHEDULE DISCONNECTING AND TIE-INS TO MINIMIZE DISRUPTION OF SERVICE. SERVICES ARE NOT TO BE LEFT DISRUPTED DURING NON-NORMAL CONTRACTOR WORKING HOURS. IF DISRUPTION EXCEEDS 4 HOURS CONTRACTOR SHALL PROVIDE A FIRE WATCH OR TEMPORARY UPRIGHT SPRINKLERS UNTIL ALL SERVICES ARE RESTORED. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM OWNER FOR INTERRUPTION OF SERVICE.
23. FLEXIBLE SPRINKLER PIPING SHALL ONLY BE ALLOWED IN ROOMS APPROVED BY THE ENGINEER AND OWNER.
24. SPRINKLER HEADS LOCATED WITHIN 8'-0" OF HIGH HEAT PRODUCING EQUIPMENT SHALL BE HIGH TEMPERATURE SPRINKLER HEADS.
25. SPRINKLER HEADS LOCATED WITHIN ROOMS WITH HIGH HUMIDITY, DISHWASHERS, STERILIZERS, POOL EQUIPMENT ROOMS AND ALL OTHER WET ROOMS SHALL BE PROVIDED WITH CORROSION RESISTANT, STAINLESS STEEL SPRINKLER HEADS AND ESCUTCHEONS.
26. A MINIMUM CLEARANCE OF 4 INCHES BETWEEN ALL CONDUITS, PIPING AND DUCT WORK THAT ARE PARALLEL OR ADJACENT TO ALL FIRE AND FIRE/SMOKE-RATED WALLS TO FACILITATE THE INSPECTION OF THESE WALL.
27. PROVIDE LIGHTNING PROTECTION ON ALL VTR'S, EXHAUST PIPES, AIR INTAKE PIPES, WATER HEATER FLUE'S AND INTAKES THAT EXTEND OVER 10" ABOVE FINISH ROOF AS REQUIRED BY CODE. COORDINATE WITH ELECTRICAL FOR ADDITIONAL INFORMATION.

TLC ENGINEERING SOLUTIONS
4360 Chamblee Dunwoody Rd.
Suite 210
Atlanta, GA 30341
P 770.451.6757
COA 15
www.tlc-engineers.com
TLC No:824325
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85-A Mill Street, Suite 200
Roswell, Georgia 30075
770.650.7558
www.randallpaulson.com

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MARCUS STROKE AND NEUROSCIENCE ANGIO 1 REPLACEMENT

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ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	ZP	MM
25 APR 25	ISSUE FOR PERMIT	ZP	MM

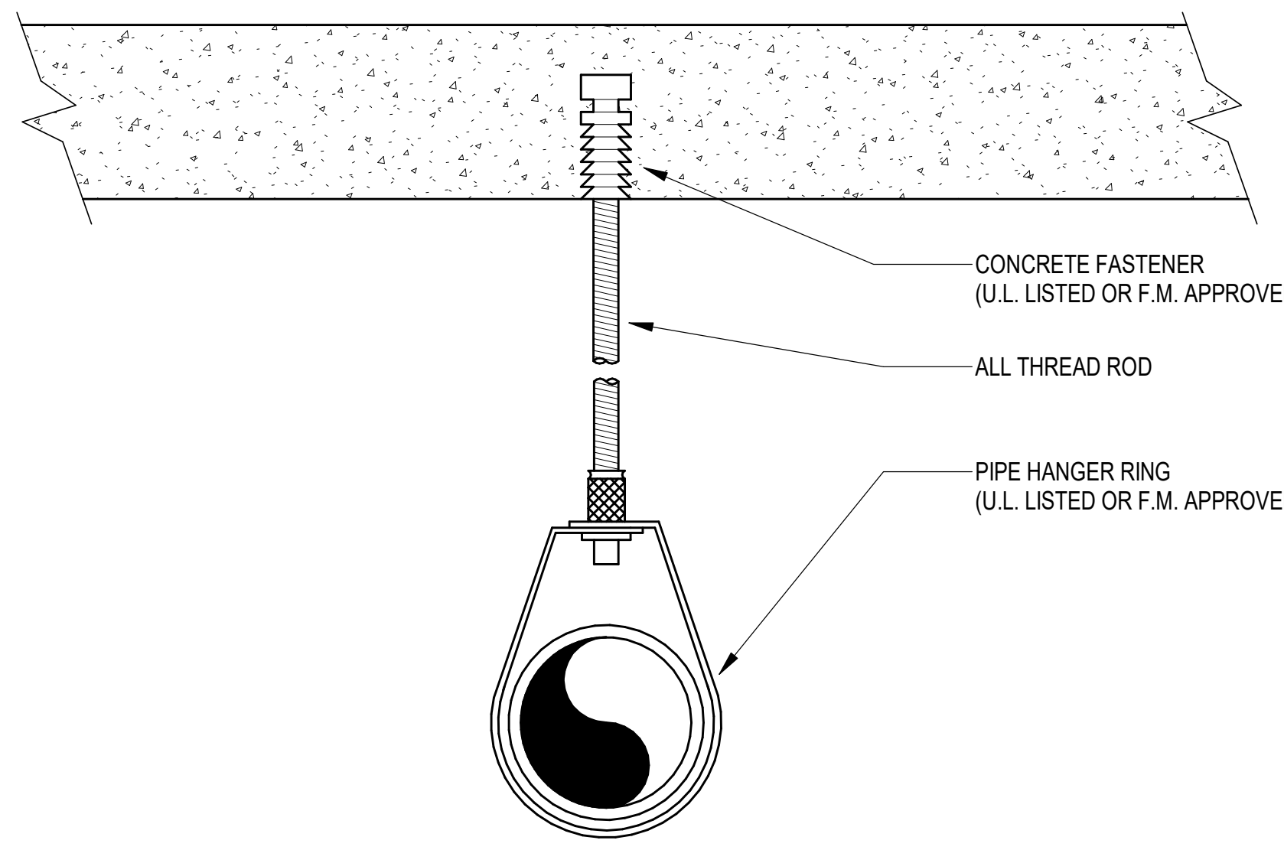
Revisions		

Date	Project No.
10/08/15	2024509.00

Sheet Title
FIRE PROTECTION SYMBOLS, LEGEND, NOTES AND INDEX

Sheet No.
FP001

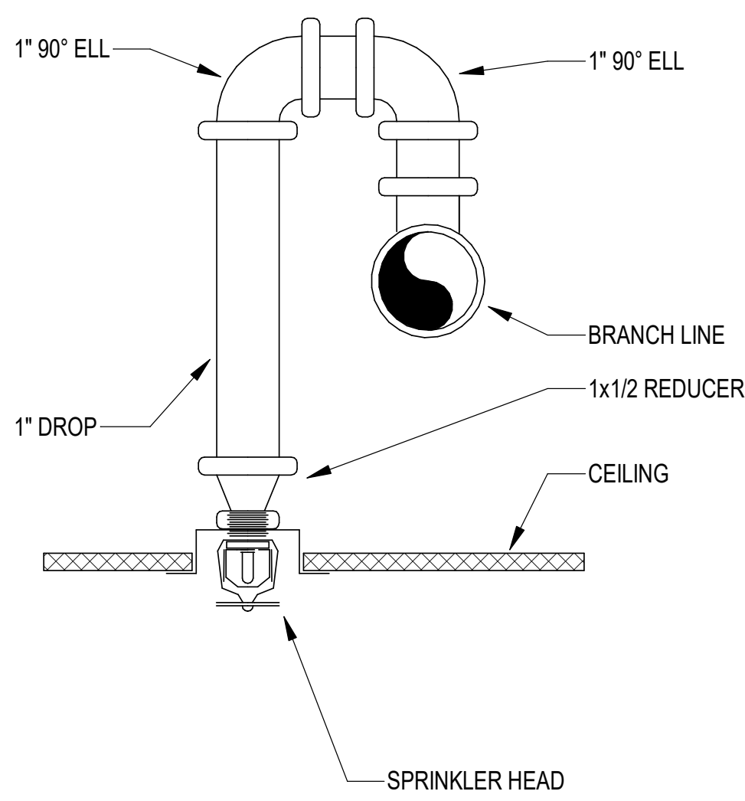
■ Released for Construction
☐ Not Released for Construction


CONCRETE FASTENER
(U.L. LISTED OR F.M. APPROVED)
ALL THREAD ROD
PIPE HANGER RING
(U.L. LISTED OR F.M. APPROVED)

HANGER - CONCRETE

No Scale

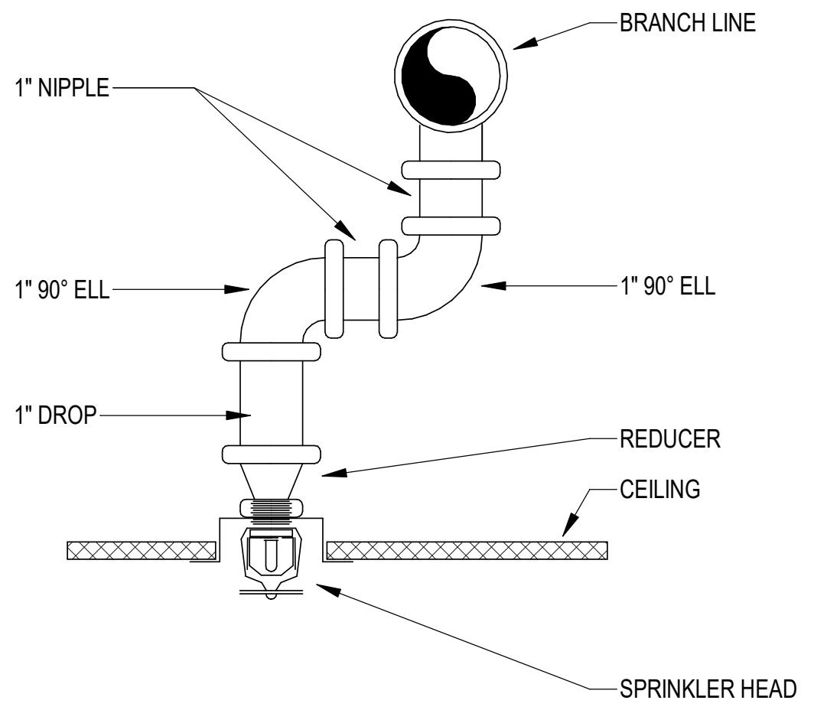
2


1" 90° ELL
1" 90° ELL
BRANCH LINE
1x1/2 REDUCER
1" DROP
CEILING
SPRINKLER HEAD

RETURN BEND

No Scale

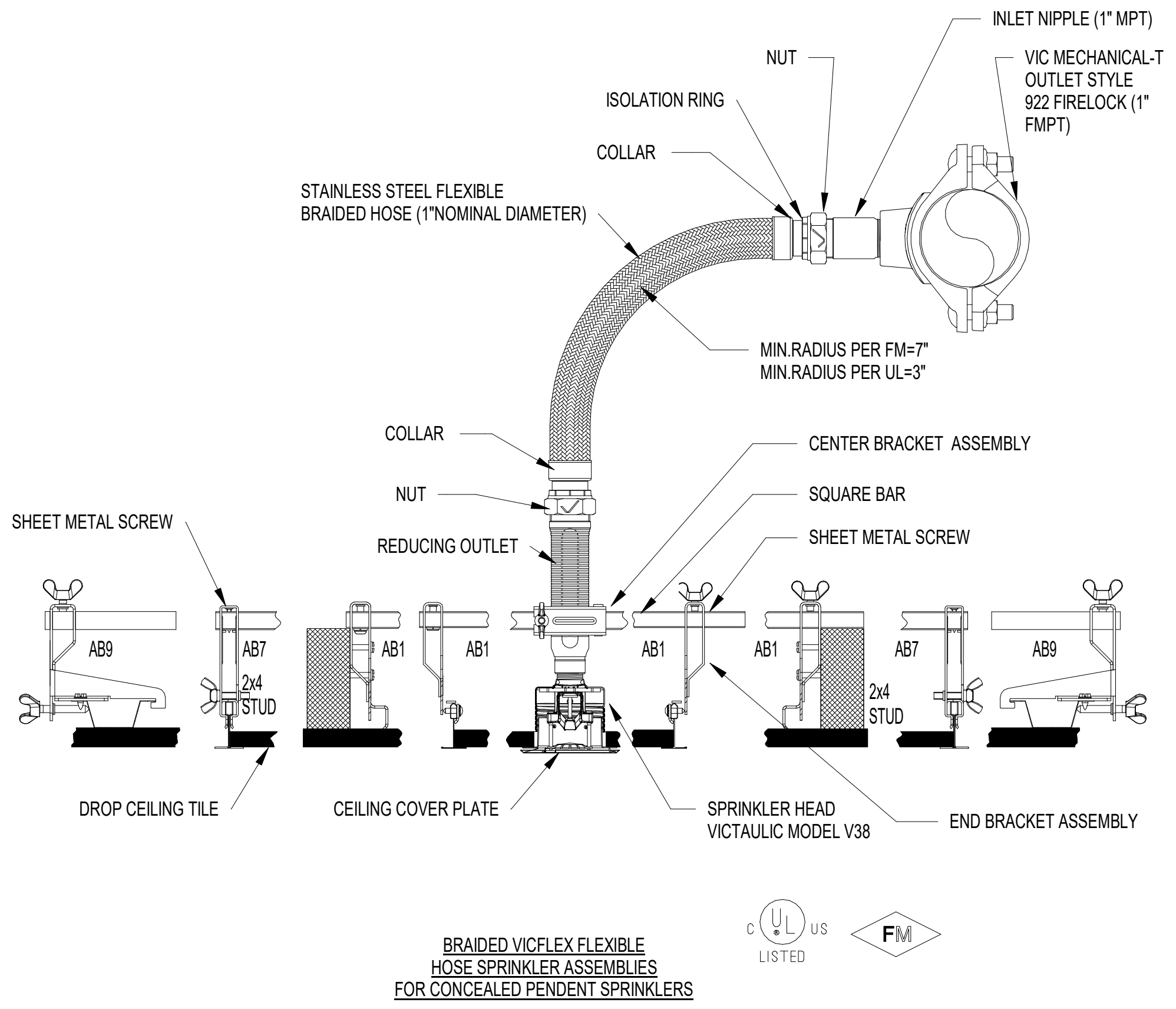
3


BRANCH LINE
1" NIPPLE
1" 90° ELL
1" 90° ELL
1" DROP
REDUCER
CEILING
SPRINKLER HEAD

SWING JOINT

No Scale

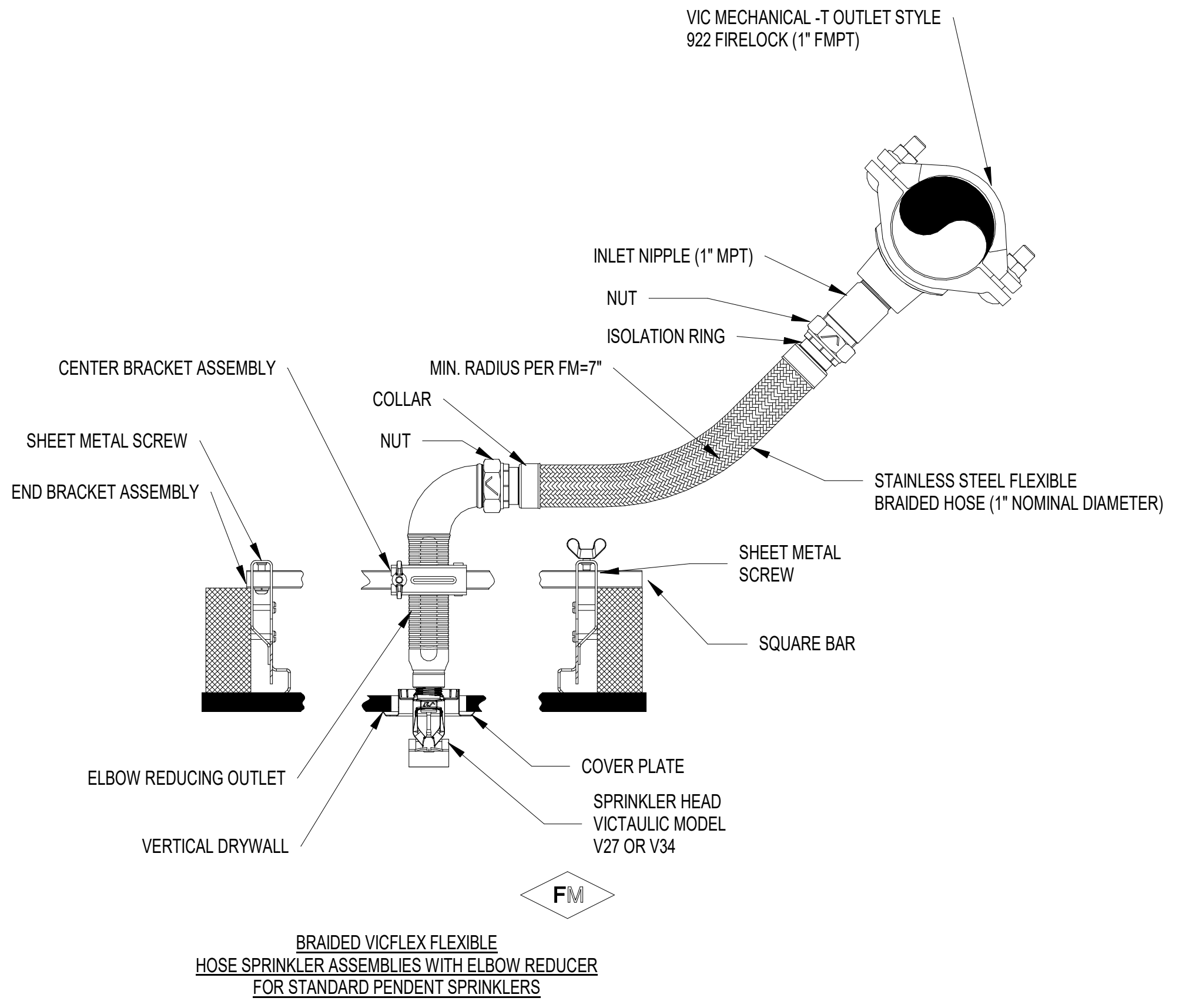
4


INLET NIPPLE (1" MPT)
NUT
VIC MECHANICAL-T OUTLET STYLE 922 FIRELOCK (1" FMPT)
ISOLATION RING
COLLAR
STAINLESS STEEL FLEXIBLE BRAIDED HOSE (1"NOMINAL DIAMETER)
MIN.RADIUS PER FM=7"
MIN.RADIUS PER UL=3"
COLLAR
CENTER BRACKET ASSEMBLY
NUT
SQUARE BAR
REDUCING OUTLET
SHEET METAL SCREW
SHEET METAL SCREW
AB9
AB7
2x4 STUD
AB1
AB1
AB1
AB1
AB7
2x4 STUD
AB9
DROP CEILING TILE
CEILING COVER PLATE
SPRINKLER HEAD VICTAULIC MODEL V38
END BRACKET ASSEMBLY
BRAIDED VICFLEX FLEXIBLE HOSE SPRINKLER ASSEMBLIES FOR CONCEALED PENDENT SPRINKLERS
C UL US LISTED
FM

CONCEALED FLEX SPRINKLER HEAD

No Scale

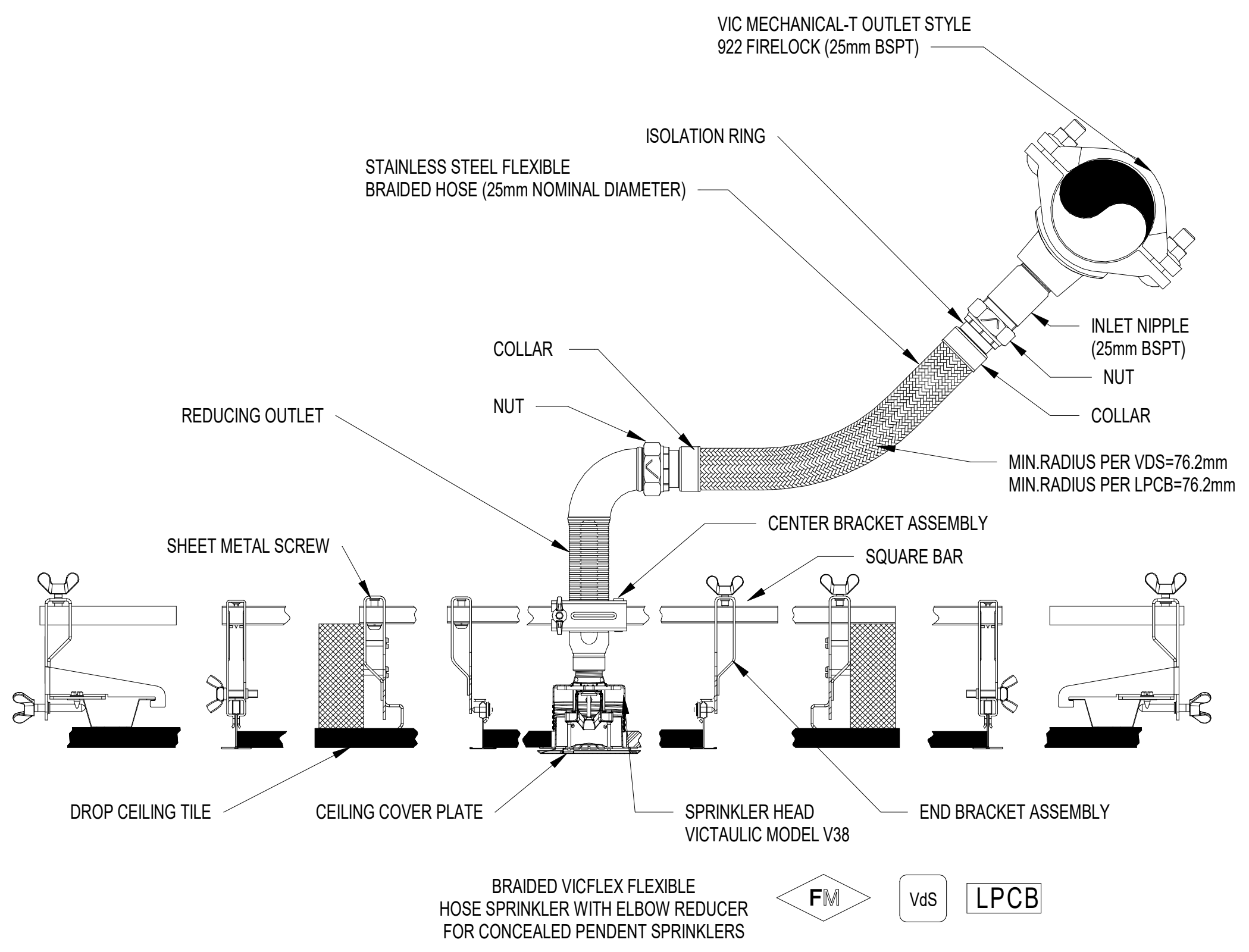
5


VIC MECHANICAL -T OUTLET STYLE 922 FIRELOCK (1" FMPT)
INLET NIPPLE (1" MPT)
NUT
ISOLATION RING
CENTER BRACKET ASSEMBLY
MIN. RADIUS PER FM=7"
COLLAR
SHEET METAL SCREW
NUT
END BRACKET ASSEMBLY
STAINLESS STEEL FLEXIBLE BRAIDED HOSE (1" NOMINAL DIAMETER)
SHEET METAL SCREW
SQUARE BAR
COVER PLATE
ELBOW REDUCING OUTLET
SPRINKLER HEAD VICTAULIC MODEL V27 OR V34
VERTICAL DRYWALL
FM
BRAIDED VICFLEX FLEXIBLE HOSE SPRINKLER ASSEMBLIES WITH ELBOW REDUCER FOR STANDARD PENDENT SPRINKLERS

SIDEWALL FLEX SPRINKLER HEAD

No Scale

7


VIC MECHANICAL-T OUTLET STYLE 922 FIRELOCK (25mm BSPT)
ISOLATION RING
STAINLESS STEEL FLEXIBLE BRAIDED HOSE (25mm NOMINAL DIAMETER)
INLET NIPPLE (25mm BSPT)
NUT
COLLAR
COLLAR
NUT
REDUCING OUTLET
MIN.RADIUS PER VDS=76.2mm
MIN.RADIUS PER LPCB=76.2mm
CENTER BRACKET ASSEMBLY
SHEET METAL SCREW
SQUARE BAR
DROP CEILING TILE
CEILING COVER PLATE
SPRINKLER HEAD VICTAULIC MODEL V38
END BRACKET ASSEMBLY
BRAIDED VICFLEX FLEXIBLE HOSE SPRINKLER WITH ELBOW REDUCER FOR CONCEALED PENDENT SPRINKLERS
FM
VdS
LPCB

CONCEALED FLEX SPRINKLER HEAD W/ ELBOW

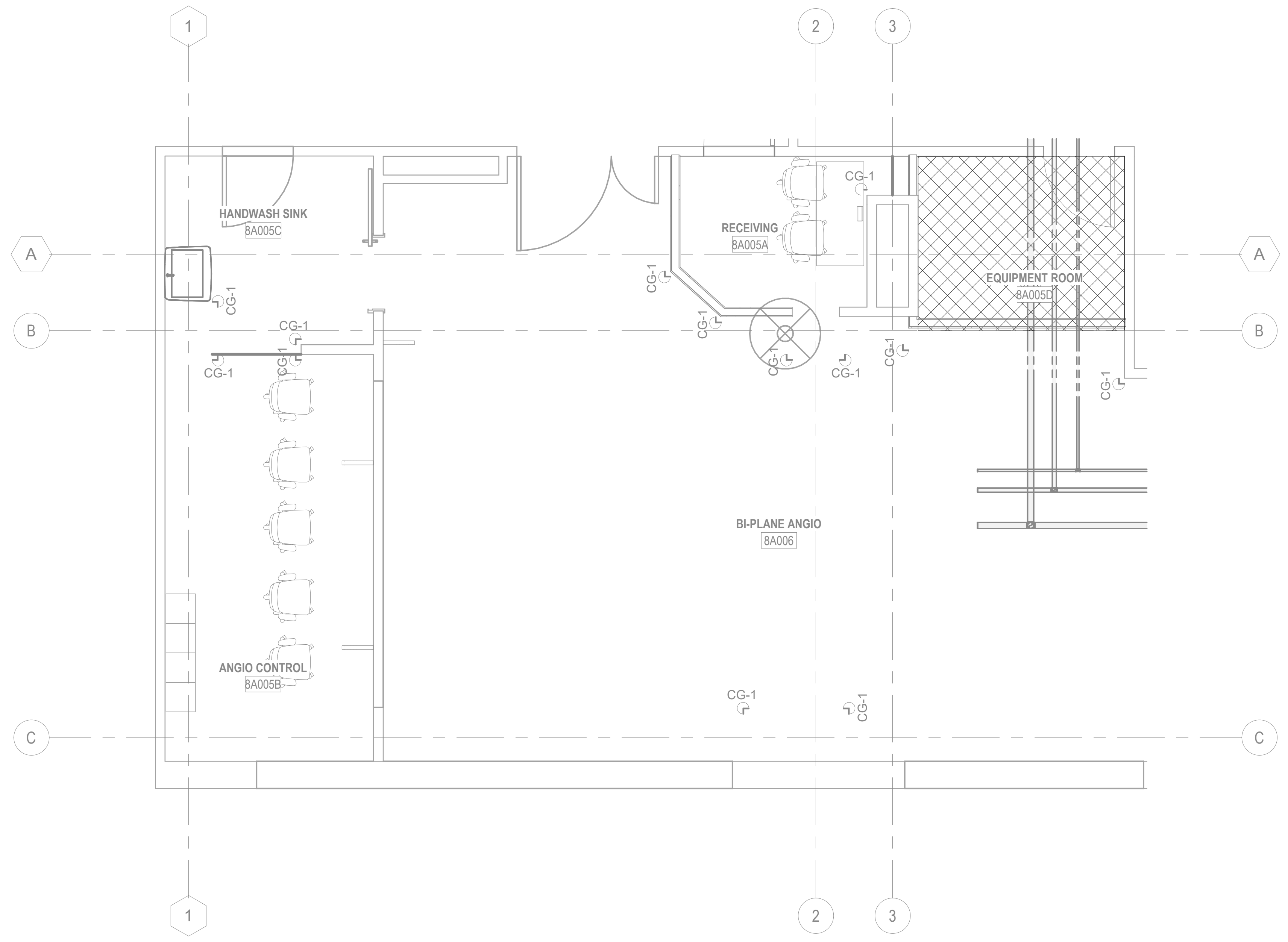
No Scale

6

FIRE PROTECTION LEGEND:

▭ HAZARD CATEGORY HC-1 - DESIGN WITH A DENSITY OF 0.10 GPM PER SQUARE FOOT AND A MAXIMUM COVERAGE AREA OF 225 SQUARE FOOT.

▨ HAZARD CATEGORY HC-2 - DESIGN WITH A DENSITY OF 0.20 GPM PER SQUARE FOOT AND A MAXIMUM COVERAGE AREA OF 130 SQUARE FOOT.


1
2
3
A
B
C
HANDWASH SINK
8A005C
RECEIVING
8A005A
EQUIPMENT ROOM
8A005D
BI-PLANE ANGIO
8A006
ANGIO CONTROL
8A005B
CG-1

1 FIRE PROTECTION PLAN

1/4" = 1'-0"

RANDALL ■ PAULSON
architects
Roswell . Nashua

04/25/25
No. PE42711

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

architecture/interiors

INTERIOR RENOVATION

at

MARCUS STROKE AND NEUROSCIENCE ANGIO 1 REPLACEMENT

for

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GRADY MEMORIAL HOSPITAL
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80 JESSE HILL, JUNIOR DRIVE
SE
ATLANTA, GA 30303

Print Record		Drw.	Chk.
17 APR 25	95% REVIEW	ZP	MM
25 APR 25	ISSUE FOR PERMIT	ZP	MM

Revisions		

TLC ENGINEERING SOLUTIONS

4360 Chamblee Dunwoody Rd.
Suite 210
Atlanta, GA 30341
P 770.451.6757
COA 15
www.tlc-engineers.com
TLC No:824325
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10/08/15	2024509.00

Sheet Title
FIRE PROTECTION PLAN AND DETAILS

Sheet No.
FP101

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☐ Not Released for Construction