H. CARL MOULTRIE I COURTHOUSE - FOURTH FLOOR EAST MAGISTRATE JUDGES SUITE RENOVATION

SHEET LIST - 1

SHEET NUMBER	SHEET NAME
GENERAL	
1.G.000	COVER SHEET
1.G.001	BUILDING CODE ANALYSIS & LIFE SAFETY PLAN
1.G.002	PHASING PLAN - FOURTH FLOOR
ARCHITECTURAL	
1.A.001	ABBREVIATIONS AND SYMBOLS
1.A.003	TYPICAL MOUNTING HEIGHTS AND DIMENSIONING CONVENTIONS
1.A.004	TYPICAL RULES FOR DETERMINING MOUNTING HEIGHTS AND LOCATIONS
1.A.005	TYPICAL REFLECTED CEILING PLAN LOCATIONS AND CONFIGURATIONS
1.AD.204	DEMOLITION FLOOR PLAN - FOURTH FLOOR
1.AD.304	DEMOLITION REFLECTED CEILING PLAN - FOURTH FLOOR
1.A.204	FLOOR PLAN - FOURTH FLOOR
1.A.304	REFLECTED CEILING PLAN - FOURTH FLOOR
1.A.801	INTERIOR ELEVATIONS
1.A.910	FINISH SCHEDULE
1.A.920	PARTITION SYSTEMS
1.A.921	PARTITION SYSTEMS DETAILS - FRAMING
1.A.930	DOOR AND HARDWARE SCHEDULES
1.A.960	MODULAR CASEWORK SECTIONS
1.A.961	MISCELLANEOUS INTERIOR AND CEILING DETAILS
1.AF.404	FINISH PLAN - FOURTH FLOOR
1.AI.504	FURNITURE PLAN - FOR REFERENCE ONLY
1.AJ.604	POWER/SIGNAL COORDINATION PLAN - FOURTH FLOOR
FIRE PROTECTION	
1.FP.001	FIRE SUPPRESSION ABBREVIATIONS AND SYMBOLS
1.FP.204	FOURTH LEVEL FIRE SUPPRESSION PLAN
PLUMBING	
1.P.001	PLUMBING ABBREVIATIONS /SYMBOLS/GENERAL NOTES
1.PD.204	FOURTH LEVEL PLUMBING DEMOLITION PLAN
1.P.204	FOURTH LEVEL PLUMBING PLAN COMPLETION
1.P.401	PLUMBING ENLARGED PLAN - RISER & DETAILS
MECHANICAL	
1.M.001	MECHANICAL ABBREVIATIONS AND SYMBOLS
1.MD204	MECHANICAL DEMOLITION PLAN - LEVEL 04
1.M.204	HVAC PLAN - LEVEL 04
1.M.304	HVAC PIPING PLAN - LEVEL 04
1.M.501	FIN TUBE RADIATOR RISER DIAGRAM
1.M.601	MECHANICAL DETAILS
1.M.701	MECHANICAL SCHEDULES
1.M.801	MECHANICAL CONTROLS ABBREVATIONS AND SYMBOLS
1.M.802	MECHANICAL CONTROLS
ELECTRICAL	
1.E.001	ELECTRICAL ABBREVIATIONS AND SYMBOLS
1.E.002	ELECTRICAL SCHEDULES
1.ED.204	DEMOLITION POWER PLAN - FOURTH FLOOR
1.ED.304	DEMOLITION LIGHTING PLAN - FOURTH FLOOR
1.E.204	POWER FLOOR PLAN - FOURTH FLOOR
1.E.304	LIGHTING FLOOR PLAN - FOURTH FLOOR
1.E.504	ELECTRICAL DIAGRAMS
1.E.601	ELECTRICAL DETAILS
1.E.701	LIGHTING SCHEDULES & COMCHECK LPD COMPLIANCE
1.E.702	PANELBOARD SCHEDULES
FIRE ALARM	
1.FA.001	FIRE ALARM ABBREVIATIONS AND SYMBOLS
1.FA.104	FOURTH LEVEL FIRE ALARM PLAN
IT-AV	
1.T.001	TECHNOLOGY INFRASTRUCTURE LEGENDS AND LEGEND NOTES
1.T.002	TECHNOLOGY INFRASTRUCTURE LEGENDS, SCHEDULES AND GENERAL NOTES
1.T.003	DIVISION 27 - AUDIOVISUAL SPECIFICATIONS
1.T.204	TECHNOLOGY INFRASTRUCTURE FLOOR PLAN - LEVEL 4
1.T.304	TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLAN - LEVEL 4
1.T.504	TELECOM PLAN, ENLARGED PLANS AND ELEVATIONS - LEVEL 4
1.T.601	AUDIOVISUAL INFRASTRUCTURE ROOM RISERS
1.T.602	AUDIOVISUAL SYSTEMS DRAWING
1.T.701	TELECOM BUILDING AND TYPICAL CONDUIT RISER
1.T.801	TECHNOLOGY INFRASTRUCTURE ELEVATIONS
1.T.901	TECHNOLOGY INFRASTRUCTURE DETAILS
1.T.902	TELECOM DETAILS

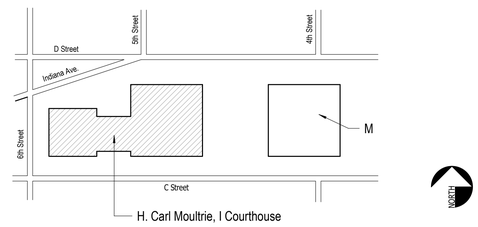
PROJECT DESCRIPTION

THE SCOPE OF THE WORK IS A LEVEL 2 ALTERATION OF INTERIOR OFFICE SPACE. THE PROJECT HAS 2 PHASES THAT WILL RESULT IN THE COMPLETION OF CONSTRUCTION, TESTING COMMISSIONING AND OCCUPANCY OF THE MAGISTRATE SUITE ON THE FOURTH FLOOR.

1. PHASE 1 SCOPE IS SHOWN AS 1A WORK OF DEMOLITION AND RECONFIGURED LAYOUT TO INCLUDE PRIVATE OFFICES, CLERESTORY WINDOWS, OPEN WORKSTATIONS, RECEPTION, COPY ROOMS AND STORAGE/CLOSETS. THIS WILL INCLUDE THE COMPLETION OF DOORS, FINISHES, MECHANICAL, ELECTRICAL, FIRE ALARM/FIRE PROTECTION, AV AND DATA.

2. PHASE 2 SCOPE IS SHOWN AS 1B WORK OF DEMOLITION AND RECONFIGURED LAYOUT TO INCLUDE PRIVATE OFFICES, CLERESTORY WINDOWS, OPEN WORKSTATIONS, PANTRY AND CLOSETS. THIS WILL INCLUDE THE COMPLETION OF DOORS, FINISHES, MECHANICAL, ELECTRICAL, FIRE ALARM/FIRE PROTECTION, AV, DATA, APPLIACNCES AND PLUMBING.

VICINITY MAP



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VOLUME I OF I

ISSUED FOR:
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CPFMD Reference #: 0017-01-400-3

ISSUE DATE:
04/12/2021

12808

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PROJECT CODE SUMMARY

BUILDING CLASSIFICATION:

OCCUPANCY CLASSIFICATION AND CONSTRUCTION TYPES PER IBC CHAPTERS 3, 4, 5, AND 6

BASIC OCCUPANCY GROUP(S) :*[PER DCBC CHAPTER 3]*

○ GROUP A-1	○ GROUP A-2	○ GROUP A-3
○ GROUP A-4	○ GROUP A-5	● GROUP B
○ GROUP E	○ GROUP F-1	○ GROUP F-2
○ GROUP H-1	○ GROUP H-2	○ GROUP H-3
○ GROUP H-4	○ GROUP H-5	○ GROUP I-1
○ GROUP I-2	○ GROUP I-3	○ GROUP I-4
○ GROUP M	○ GROUP R-1	○ GROUP R-2
○ GROUP R-3	○ GROUP R-4	○ GROUP S-1
● GROUP S-2	○ GROUP U	

MIXED USE AND OCCUPANCY : *[PER DCBC SECTION 508 & 509]*

● ACCESSORY OCCUPANCIES *[DCBC 508.2]*
{Accessory Occupancies <10% of Story}
○ INCIDENTAL USES *[DCBC SECTION 509]*
● NONSEPARATED OCCUPANCIES* *[DCBC 508.3]*
○ SEPARATED OCCUPANCIES *[DCBC 508.4]*

*REFER TO FIRE AND LIFE SAFETY PLANS FOR SEPARATION REQUIREMENTS

TYPE(S) OF CONSTRUCTION : *[PER DCBC CHAPTER 6]*			
	TYPE I :	○ A	○ B
	TYPE II :	○ A	● B
	TYPE III :	○ A	○ B
	TYPE IV :	○ HT	
	TYPE V :	○ A	○ B

SPECIAL DETAILED REQUIREMENTS :

● HIGH-RISE BUILDING *[PER DCBC SECTION 403]*
○ ATRIUM *[PER DCBC SECTION 404]*
○ OPEN PARKING GARAGE *[PER DCBC SECTION 406.5]*
○ GROUP I-2: *[PER DCBC SECTION 407]*
- SMOKE COMPARTMENTS
- REFUGE AREA
○ HAZARDOUS MATERIALS: *[PER DCBC SECTION 414]*
- CONTROL AREAS
○ MEZZANINE *[PER DCBC SECTION 505]*
○ EQUIPMENT PLATFORM *[PER DCBC SECTION 505]*

MEANS OF EGRESS:

*REFER TO THE LIFE SAFETY PLANS FOR ACTUAL MEASURED DISTANCES.

DOORS :

[PER DCBC 1010.1.1]

THE MINIMUM CLEAR WIDTH AND HEIGHT OF A DOOR SHALL NOT BE LESS THAN 32 INCHES AND 80 INCHES RESPECTIVELY.

[PER DCBC 1010.1.2]

DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL, WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE PERSONS OR A GROUP H OCCUPANCY.

MIN. NUMBER OF EXITS FOR OCCUPANT LOAD (DCBC TABLE 1006.3.1)

OCCUPANT LOAD	MIN. # OF EXITS PER STORY
1-500	2
501-1,000	3
MORE THAN 1,000	4

LIFE SAFETY SYSTEMS:

(PER DCBC AND DCFC CHAPTER 9)

AUTOMATIC SPRINKLER SYSTEM :	● PROVIDED PER NFPA 13
ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS :	○ PROVIDED - REFER TO FIRE PROTECTION DRAWINGS
STANDPIPE SYSTEM :	● PROVIDED PER NFPA 14: CLASS I
PORTABLE FIRE EXTINGUISHERS :	● PROVIDED PER NFPA 10
FIRE ALARM SYSTEM :	● PROVIDED PER NFPA 72

TRAVEL DISTANCES:

COMMON PATH OF EGRESS TRAVEL (DCBC 1006.2.1)

OCCUPANCY	SPRINKLERED	MAX. DISTANCE
B, S-2	YES	100' - 0"

EXIT ACCESS TRAVEL DISTANCE (DCBC TABLE 1017.2)

OCCUPANCY	SPRINKLERED	MAX. DISTANCE
B	YES	300' - 0"
S-2	YES	400' - 0"

DEAD ENDS (DCBC 1020.4)

OCCUPANCY	SPRINKLERED	MAX. DISTANCE
B, S-2	YES	50' - 0"

CODES / STANDARDS

APPLICABLE CODES/CRITERIA/DESIGN POLICY:

AUTHORITY HAVING JURISDICTION:

DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS

DISTRICT OF COLUMBIA BUILDING CODES

(DCBC)	DISTRICT OF COLUMBIA BUILDING CODE	2017
(DCFC)	DISTRICT OF COLUMBIA FIRE CODE	2017
(DCMC)	DISTRICT OF COLUMBIA MECHANICAL CODE	2017
(DCPC)	DISTRICT OF COLUMBIA PLUMBING CODE	2017

NATIONAL FIRE PROTECTION ASSOCIATION

NFPA 10	STANDARD FOR PORTABLE FIRE EXTINGUISHERS	2013
NFPA 13	INSTALLATION OF SPRINKLER SYSTEMS	2013
NFPA 70	NATIONAL ELECTRICAL CODE	2014
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE	2013

ACCESSIBILITY GUIDELINES

ADA	ADA STANDARDS FOR ACCESSIBLE DESIGN BY THE U.S. DEPARTMENT OF JUSTICE	2010
ICC/ANSI 117.1	ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES	2017

ADDITIONAL GUIDELINES

ASME A17.1	SAFETY CODE FOR ELEVATORS AND ESCALATORS	2013

OCCUPANT LOAD - AREA OF WORK

PERMIT 1A

FUNCTION OF SPACE	AREA	P/SF	GSF/NSF/FIXED	OCC LOAD
ACCESSORY MECHANICAL AND STORAGE AREAS	60 SF	300	GSF	2
BUSINESS USE - GENERAL	3851 SF	100	GSF	39
	3911 SF			41

PERMIT 1B

FUNCTION OF SPACE	AREA	P/SF	GSF/NSF/FIXED	OCC LOAD
ACCESSORY MECHANICAL AND STORAGE AREAS	57 SF	300	GSF	2
ASSEMBLY USE - UNCONCENTRATED	250 SF	15	NSF	17
BUSINESS USE - GENERAL	4194 SF	100	GSF	42
	4502 SF			61

TRAVEL PATH SUMMARY - AREA OF WORK

Path ID	Length
Common Path of Travel 1A	42' - 4"
Common Path of Travel 1B	32' - 9"
Dead End 1A	48' - 0"
Travel Distance 1A	95' - 6"
Travel Distance 1B	146' - 9"

GRAPHIC LEGEND

PROJECT CODE SUMMARY SYMBOLS

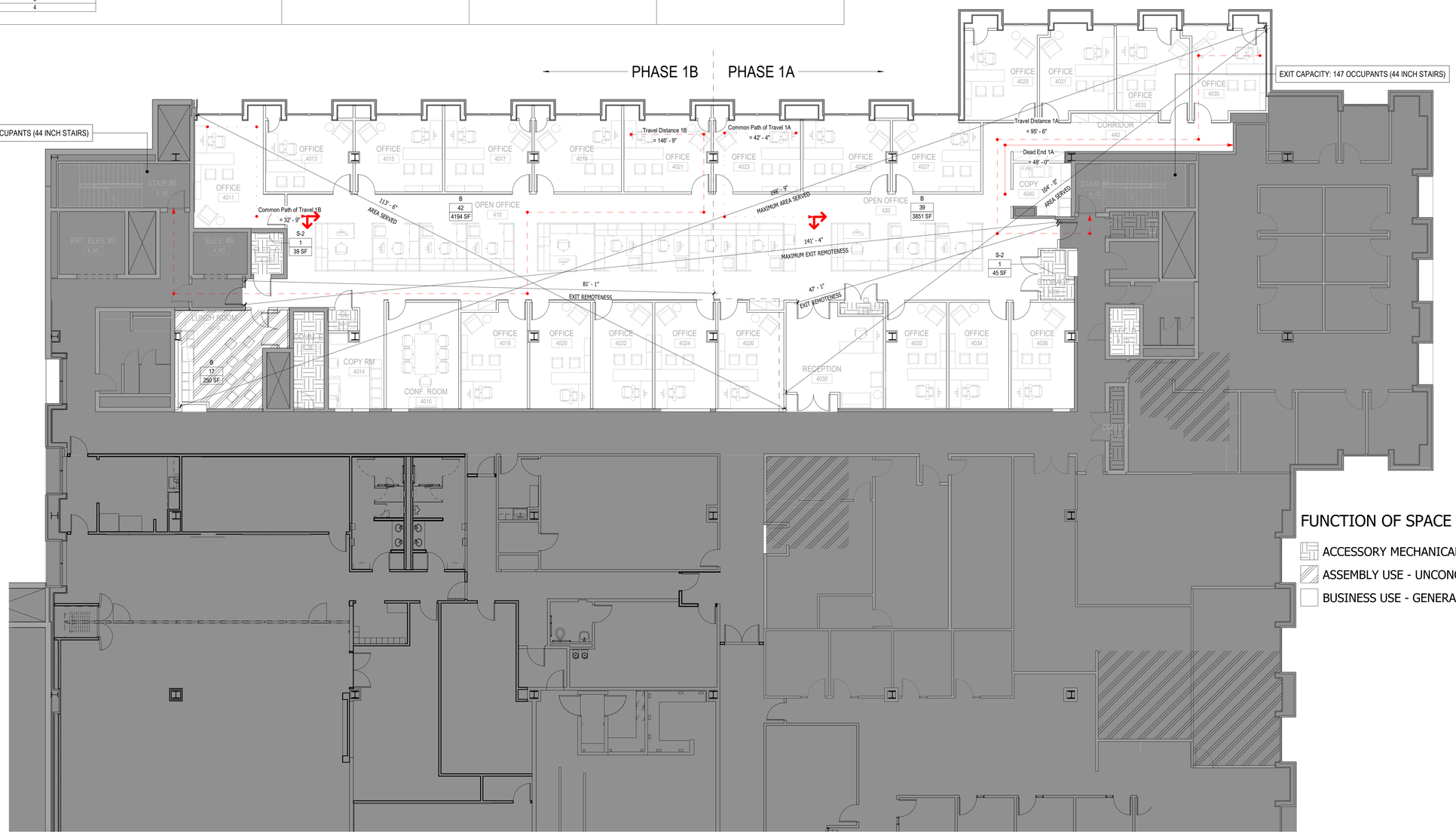
○ ITEM NOT SELECTED

● ITEM SELECTED

GENERAL SHEET NOTES

A. AREAS OUTSIDE OF THIS SCOPE OF WORK ARE INDICATED IN THE GRAY HATCHED AREA.

B. REFER TO A SERIES DRAWINGS FOR COORDINATION OF PHASING WORK AND TEMPORARY CONSTRUCTION.



FUNCTION OF SPACE LEGEND

- ACCESSORY MECHANICAL AND STORAGE AREAS
- ASSEMBLY USE - UNCONCENTRATED
- BUSINESS USE - GENERAL

1 LEVEL 4 LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

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DESIGN DEVELOPMENT		03/09/2021
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE

BUILDING CODE ANALYSIS & LIFE SAFETY PLAN

PROJECT NUMBER 12808

CD

SHEET NUMBER 1.G.001

Author

Plot Date: 4/12/2021 6:11:59 PM

1 FOURTH FLOOR PHASING PLAN.
SCALE: 1" = 10'-0"

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SEALS AND SIGNATURES

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KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE
PHASING PLAN - FOURTH FLOOR

PROJECT NUMBER
12808

CD 1.G.002
SHEET NUMBER

Author

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ARCHITECTURAL ABBREVIATIONS

A

AB	ANCHOR BOLT
ACT	ACOUSTICAL CEILING TILE
ACP	ACOUSTICAL CEILING PANEL
ACS PNL	ACCESS PANEL
AD	AREA DRAIN
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJUSTABLE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AFS	ABOVE FINISH SLAB
AGGR	AGGREGATE
ALUM	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
AVG	AVERAGE

B

BB	BULLETIN BOARD
BD	BOARD
BTWN	BETWEEN
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCHMARK
BOD	BASIS OF DESIGN
BOT	BOTTOM
BOS	BOTTOM OF STEEL
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT UP ROOFING SYSTEM

C

CAB	CABINET
CB	CATCH BASIN
CCR	CARD CONTROL READER
CCT	CUBICLE CURTAIN TRACK
CCTV	CLOSED CIRCUIT TELEVISION
CG	CORNER GUARD
CEM	CEMENT, CEMENTITIOUS
CER	CERAMIC
CH BD	CHALKBOARD
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRUGATED
CPT	CARPET
CSK	COUNTERSUNK
CSP	COMBINATION STANDPIPE
CSWK	CASEWORK
CT	CERAMIC TILE
CU	CUBIC
CW	COLD WATER

D

D	DEPTH
DBL	DOUBLE
DBL ACT	DOUBLE ACTING
DEG	DEGREE
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DIM PT	DIMENSION POINT
DISP	DISPENSER
DIST	DISTANCE
DN	DOWN
DR	DRAIN
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DT	DRAPERY TRACK
DWG	DRAWING
(WGS	DRAWINGS

E

(E)	EXISTING
EA	EACH
EDR	EQUIPMENT DRAWING
EG	EDGE GUARD
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EOS	ETHYLENE PROPYLENE DIENE MONOMER
EP	ELECTRICAL PANEL
EPB	ELECTRICAL PANEL BOARD
EPDM	
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ESCAL	ESCALATOR
EST	ESTIMATE(D)
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATED
EXH	EXHAUST
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXT	EXTERIOR

F

F/F	FACE TO FACE
FA	FIRE ALARM
FAS	FIRE ALARM STATION
FB	FLAT BAR
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE HOSE / FIRE EXTINGUISHER CABINET
FF	FINISH FACE
FHC	FIRE HOSE CABINET
FH/FEC	
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FHY	FIRE HYDRANT
FLAM	FLAMMABLE
FLASH	FLASHING
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FG	FACE OF
FSB	FOLDING SHOWER BENCH
FSTNR	FASTENER
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FXTR	FIXTURE

G

G	GAS
GA	GAUGE, GAGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GLU LAM	GLUE LAMINATED
GLZ	GLAZING
GR	GRADE OR GRADING
GVL	GRAVEL
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER

H

H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAD
HDBD	HARDBOARD
HDW	HARDWARE
HDWD	HARDWOOD
HGT	HEIGHT
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HVAC	HEATING-VENTILATION-AIR CONDITIONING
HW	HOT WATER

I

ID	INSIDE DIAMETER
IN	INCH
INCAND	INCANDESCENT
INCL	INCLUDE, INCLUDING
INFO	INFORMATION
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
IVT	INTRAVENOUS TRACK

J

JAN	JANITOR
JST	JOIST
JT	JOINT

K

KG	KILOGRAM
KIT	KITCHEN
KPL	KICK PLATE
KS	KNEE SPACE

L

L	LENGTH, LONG
LAB	LABORATORY
LAM	LAMINATE, LAMINATION
LAV	LAVATORY
LB	POUND
LED	LIGHT EMITTING DIODE
LF	LINEAR FOOT
LG	LENGTH
LIN	LINEAR
LL	LEAD LINED
LPT	LOW POINT
LT	LIGHT
LT WT	LIGHT WEIGHT
LTG	LIGHTING
LVR	LOUVER

M

M	METERS
MACH	MACHINE
MATL	MATERIAL
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MEDICINE CABINET
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MM	MILLIMETERS
MO	MASONRY OPENING
MOD	MODULE, MODULAR
MTD	MOUNTED
MTG	MOUNTING
MVBL	MOVABLE
MULL	MULLION

N

(N)	NEW
NA	NOT APPLICABLE
NAT	NATURAL
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOICE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
NW	NORTHWEST

O

OC	ON CENTER
OA	OVERALL
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED-CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED-OWNER INSTALLED
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OVHD	OVERHEAD
OZ	OUNCE

P

PA	PUBLIC ADDRESS
PART	PARTIAL
PBD	PARTICLEBOARD
PBX	PRIVATE TELEPHONE EXCHANGE
PCF	POUNDS PER CUBIC FOOT
PCI	POUNDS PER CUBIC INCH
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PI	POINT OF INTERSECTION
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNEU	PNEUMATIC
PNL	PANEL
PNL BD	PANEL BOARD
PNT	PAINT
PORT	PORTABLE
PP	PUSH PLATE
PPM	PARTS PER MILLION
PR	PAIR
PRCST	PRECAST
PREP	PREPARATION
PREFAB	PREFABRICATION
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PWR	POWER

Q

QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY

R

R	RISER
RA	RETURN AIR
RAD	RADIUS
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RD	ROOF DRAIN
RECT	RECTANGULAR
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE (D) (ING) (MENT)
REQD	REQUIRED
REQT	REQUIREMENT
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RF	RESILIENT FLOORING
RH	RIGHT HAND
RHMS	ROUND HEAD MACHINE SCREW
RHWS	ROUND HEAD WOOD SCREW
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RWL	RAIN WATER LEADER

S

S	SOUTH
SA	SUPPLY AIR
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SCRN	SCREEN
SD	STORM DRAIN
SE	SOUTHEAST
SECT	SECTION
SEG	SEGMENT
SEP	SEPARATION OR SEPARATE
SEP JT	SEPARATION JOINT
SHT	SHEET, SHEETING
SHWR	SHOWER
SHV	SHELVES, SHELVING
SIM	SIMILAR
SK	SINK
SMS	SHEET METAL SCREW
SP	SPACE, SPACED, SPACING
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SS	SANITARY SEWER
SSK	SERVICE SINK
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STAG	STAGGERED
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
STS	SELF-TAPPING STEEL
SUSP	SUSPENDED
SUSP CLG	SUSPENDED CEILING
SVCE	SERVICE
SW	SOUTHWEST
SYMM	SYMMETRICAL
SYST	SYSTEM

T

T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TC	TOP OF CONCRETE, TOP OF CURB
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPORARY
THERM	THERMAL
THK	THICK, THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TMPD GL	TEMPERED GLASS
TO	TOP OF
TOR	TOP OF RAILING
TOS	TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL

U

UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
UTIL	UTILITY

V

VAC	VACUUM
VB	VALVE BOX
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIT	VITREOUS
VP	VENT PIPE
VOL	VOLUME
VWC	VINYL WALL COVERING

W

W	WEST
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WC	WATER CLOSET OR WALL COVERING
WD	WOOD
WDW	WINDOW
WGL	WIRE GLASS
WCHR	WHEELCHAIR
WM	WIRE MESH
WO	WHERE OCCURS
WPT	WORKING POINT
WR	WATER RESISTANT
WSCT	WAINSCOT
WSP	WET STANDPIPE
WT	WEIGHT
WTHPRF	WEATHERPROOF
WTRPRF	WATERPROOF
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

X

XFMR	TRANSFORMER

Y

YD	YARD

ARCHITECTURAL FLOOR PLAN SYMBOLS

DIMENSION SYMBOLS

10' - 0" — DIMENSION SHOWN TO:
- STRUCTURAL GRID
- LAYOUT GRID
- CENTERLINE OF ASSEMBLY
- CENTER OF OPENING
- CENTER OF EQUIP/ FURN

GRID OR CENTER LINE TYPICAL

10' - 0" — DIMENSION SHOWN TO:
- PARTITION ASSEMBLY
- EDGE OF DOOR OPENING
- OTHER BUILDING ELEMENT
- WORKING POINT INDICATED ON DETAIL

GENERAL SYMBOLS

- BASE CABINETS
- BASE AND WALL CABINETS
- WALL CABINETS
- TOILET PARTITION AND DOOR
- HANDRAIL
- BUMPER GUARD
- CG — CORNER GUARD
- EG — EDGE GUARD
- HIDDEN LINES OR ITEMS ABOVE
- CENTERLINES, PROJECTED LINES
- NEW CEILING-HIGH PARTITION
- SLAB HIGH PARTITION

FIRE EXTINGUISHER SYMBOLS

- FEXT — FIRE EXTINGUISHER BRACKET MOUNTED
- FEC — FIRE EXTINGUISHER SURFACE MOUNTED
- FEC — FIRE EXTINGUISHER CABINET SEMI-RECESSED
- FEC — FIRE EXTINGUISHER CABINET RECESSED

PLUMBING SYMBOLS

- TOILET - WALL HUNG
- URINAL - FLOOR/WALL HUNG
- LAVATORY - COUNTERTOP
- LAVATORY - PEDESTAL/WALL HUNG
- UTILITY SINK
- DRINKING FOUNTAIN / EWC
- JANITOR'S RECEPTOR
- SHOWER
- FD — FLOOR DRAIN IN SLOPING FLOOR
- NOT-IN-CONTRACT ITEMS (NIC)

ARCH REFLECTED CEILING PLAN SYMBOLS

ARCHITECTURAL

- 2'X2' LAY IN ACOUSTIC TILE CEILING
- GYPSUM BOARD
- ACCESS PANEL

MECHANICAL

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CLG MOUNT
- SPRINKLER HEAD - WALL MOUNT

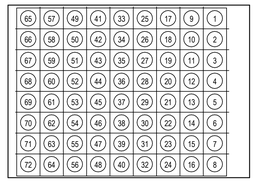
ELECTRICAL

- 2'X2' LIGHTING FIXTURE
- 1'X4' LIGHTING FIXTURE
- LIGHTING STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- F — FIRE ALARM
- S — SPEAKER
- P — SMOKE DETECTOR
- W — WIRELESS INTERNET

MISCELLANEOUS

+8'-6" — HEIGHT OF CEILING FINISH ABOVE FINISH FLOOR

MODULAR LAYOUT / DETAIL NUMBER

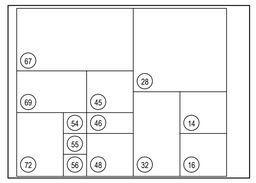


DETAIL MODULE LAYOUT

DETAILS ARE NUMBERED ACCORDING TO THEIR LOCATION ON EACH SHEET AND ARE NOT NUMBERED CONSECUTIVELY. EACH MODULE MAINTAINS THE NUMBER ASSOCIATED WITH IT

THIS SYSTEM CAN BE APPLIED TO ANY SHEET THAT CONTAINS MULTIPLE IMAGES. THE IMAGES ARE NUMBERED ACCORDING TO THE MODULE SYSTEM SHOWN ILLUSTRATED TO THE LEFT.

EACH DETAIL MAY OCCUPY ONE OR MORE WHOLE MODULES. THE DETAIL MODULE IS USED TO ESTABLISH THE IDENTIFYING LABEL FOR EACH DETAIL, NOT TO LIMIT THE SIZE OF THE DETAIL



DETAIL NUMBERING EXAMPLE

THE NUMBER OF THE MODULE WHICH OCCURS IN THE LOWER LEFT CORNER OF A SINGLE MODULE OR SEVERAL MODULES GROUPED TOGETHER WILL DEFINE THE FINAL DETAIL NUMBER AS SHOWN IN THE ILLUSTRATION TO THE LEFT. ALTHOUGH THE MODULE NUMBERS OCCUR IN CONSECUTIVE ORDER, NOT ALL NUMBERS ARE NECESSARILY USED ON EACH SHEET

ARCHITECTURAL REFERENCE SYMBOLS

BUILDING SECTION

SIM / A101 — WALL SECTION NUMBER; DIRECTION OF VIEW; SHEET WHERE DRAWN

WALL SECTION

SIM / A101 — WALL SECTION NUMBER; SHEET WHERE DRAWN; DIRECTION OF VIEW

EXTERIOR ELEVATION

A.X.X.X / X — ELEVATION NUMBER AND DIRECTION; SHEET WHERE DRAWN

DETAIL REFERENCE

SIM / A101 — DETAIL NUMBER; SHEET WHERE DRAWN, HYPHEN INDICATES DETAIL ON SAME SHEET.

SECTION DETAIL REFERENCE

SIM / A101 — ELEVATION NUMBER AND DIRECTION; SHEET WHERE DRAWN

INTERIOR ELEVATION REFERENCE

SIM / A101 — ELEVATION NUMBER AND DIRECTION OF VIEW; SHEET WHERE DRAWN

ROOM NAME AND NUMBER

Room Name 101

WINDOW AND LOUVER TYPE MARK

- W-X — SEE CORRESPONDING NUMBER ON SCHEDULE
- M-X — SEE ASSEMBLY TYPE FOR DETAILS.

PARTITION REFERENCE

34 — PARTITION TYPE

FINISH REFERENCE

X-1 — FINISH TYPE

REVISION NUMBER AND EXTENT

1 — REVISION NUMBER - SEE REVISION HISTORY ON THE TITLE BLOCK OF EACH SHEET; EXTENT OF CURRENT REVISION

SHEET KEYNOTE MARK

AK-01 — KEYNOTE REFERENCE NUMBER (PREFIX MAY VARY)

REFERENCE KEYNOTE MARK

088000.A03 — THE FIRST SIX DIGITS REPRESENT THE SPECIFICATION SECTION; EXAMPLE 1: THE CHARACTERS FOLLOWING THE PERIOD REPRESENT PARTICULAR ITEMS OF THE SPECIFIED SYSTEM

061600 5/8" PLYWOOD — EXAMPLE 2: THE TEXT IS THE PRODUCT DESCRIPTION

LEVEL LINE

SECOND LEVEL +10'-0" — NAME OF LEVEL; INDICATES HEIGHT ABOVE PROJECT DATUM

DRAWING TITLE SYMBOLS

- 1 View Name SCALE: 1/8" = 1'-0" — BASIC DRAWING TITLE
- 1 View Name SCALE: 1/8" = 1'-0" — BASIC DRAWING TITLE WITH LINE
- View Name SCALE: 1/8" = 1'-0" — DRAWING TITLE WHEN ONLY ONE PLAN EXISTS ON THE DRAWING

LAYOUT GRID LINES

A B 90.00° 1 — EXISTING GRID IDENTIFICATION

NORTH ARROW REFERENCES

NORTH OR PROJECT NORTH OR TRUE NORTH

FURNISHING REFERENCE

1 — ITEM REFERENCE FOR MILLWORK, FURNITURE, EQUIPMENT, ETC.

EQUIPMENT REFERENCE

1 — EQUIPMENT SYMBOL

ARCHITECTURAL DEMOLITION SYMBOLS

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR AND FRAME TO BE REMOVED
- EXISTING WINDOW TO REMAIN
- EXISTING WINDOW TO BE REMOVED
- EXISTING LAY-IN CEILING TO REMAIN
- EXISTING LAY-IN CEILING TO BE REMOVED

DOOR AND INTERIOR OPENING SYMBOLS

- 122 — DOOR OPENING MARK
- SINGLE OPENING DOOR
- DOUBLE ACTING DOOR
- PAIR DOORS - EQUAL SIZES
- PAIR DOORS - UNEQUAL SIZES
- PAIR DOORS - DOUBLE EGRESS
- 2 PANEL BI-FOLD DOOR
- PAIR - BI FOLD DOOR
- OVERHEAD ROLLING DOOR
- INTERIOR GLAZED WINDOW
- DOOR WITH SIDE LIGHT
- SLIDING DOOR - BETWEEN JAMBS
- SLIDING POCKET DOOR

PROJECT GENERAL NOTES

A. UNLESS OTHERWISE INDICATED BY THESE CONSTRUCTION DOCUMENTS, ALL NEW ITEMS OF CONSTRUCTION ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR AND/OR HIS SUBCONTRACTORS. THE TERMS "FURNISH", "INSTALL", "PROVIDE", AND ANY DERIVATIONS THEREOF USED IN THE CONSTRUCTION DOCUMENTS, ARE DIRECTING THE CONTRACTOR TO BOTH FURNISH AND INSTALL ANY GIVEN ITEM AND ITS INCIDENTAL MATERIALS UNLESS OTHERWISE NOTED.

B. CONTRACTOR IS REQUIRED TO SURVEY AND CONFIRM ALL EXISTING CONDITIONS WITHIN THE PROJECT SCOPE AND ALL AFFECTED AREAS.

THE WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, THE FOLLOWING:

1. THE CLEANING AND PREPARATION OF SURFACES TO RECEIVE NEW FINISHES OR CONSTRUCTS AS INDICATED BY THE CONSTRUCTION DOCUMENTS. PREPARATION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS OF THE RESPECTIVE MANUFACTURER.
2. THE INSTALLATION OF NEW WORK AS INDICATED BY THE CONSTRUCTION DOCUMENTS. NEW WORK MAY INCLUDE INSTALLATION OF ITEMS ALREADY STORED ON SITE, OR ARE REQUIRED TO BE FURNISHED AND INSTALLED. UNLESS OTHERWISE NOTED, NEW WORK IS TO BE FURNISHED AND INSTALLED. FOR ITEMS STORED ON SITE, CONTRACTOR SHALL CONFIRM THAT ALL COMPONENTS, ANCHORS, TRIMS, ETC. ARE AVAILABLE FOR INSTALLATION.
3. THE INSTALLATION OF DOORS AND HARDWARE AS INDICATED BY THE CONSTRUCTION DOCUMENTS.
4. THE INSTALLATION OF FINISHES AND ACCESSORIES AS INDICATED BY THE CONSTRUCTION DOCUMENTS.
5. THE INSTALLATION OF LIGHT FIXTURES AND OTHER CEILING MOUNTED DEVICES INDICATED BY THE CONSTRUCTION DOCUMENTS TOGETHER WITH ALL MATERIALS INCIDENTAL THERETO.
6. THE INSTALLATION OF FIRE AND LIFE SAFETY DEVICES AS INDICATED BY THE CONSTRUCTION DOCUMENTS.
7. COORDINATION OF WORK WITH THE DC COURT'S SECURITY VENDOR FOR FULL ACTIVATION OF EXISTING CARD READERS, WHETHER SPECIFICALLY NOTED IN PLAN OR NOT.
8. THE REPAIR AND/OR REPLACEMENT OF EXISTING CONSTRUCTION TO REMAIN THAT WAS DAMAGED AS A RESULT OF THE WORK.
9. THE REPAIR AND/OR COMPLETION OF EXISTING CONSTRUCTION THAT WAS PREVIOUSLY INSTALLED IMPROPERLY OR INCORRECTLY AS INDICATED BY THE CONSTRUCTION DOCUMENTS.
10. VERIFICATION OF EXISTING AND NEW CONSTRUCTION FOR PROPER OPERATION AND INSTALLATION WITHIN THE AREA OF WORK.

ARCHITECTURAL GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY TO ALL ARCHITECTURAL SERIES SHEETS. FOR GENERAL NOTES APPLICABLE TO ALL SHEETS REFER TO THE "PROJECT GENERAL NOTES":

A. THE ARCHITECTURAL SERIES SHEETS ARE PART OF A COMPLETE SET OF CONSTRUCTION DOCUMENTS DESCRIBING THE WORK FOR THIS PROJECT. USERS OF THESE DOCUMENTS ARE RESPONSIBLE TO REVIEW ALL CONSTRUCTION DOCUMENTS TO UNDERSTAND AND COORDINATE THE GRAPHIC AND ANNOTATED INFORMATION PROVIDED IN THESE ARCHITECTURAL SERIES SHEETS.

B. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATIONS SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES, AND SPECIFICATIONS.

REFERENCE ELEVATION DEFINITIONS

A. THE TERM "REFERENCE" ELEVATION OR DIMENSIONS REFERS TO A NOMINAL WORK POINT. THE ACTUAL ELEVATION MAY VARY FROM THE REFERENCE POINT. REFER TO APPLICABLE DETAIL TO DETERMINE THE RELATIONSHIP BETWEEN THE ACTUAL ELEVATION OR DIMENSION AND THE STATED REFERENCE POINT."

B. THE DESIGN REFERENCE ELEVATION "+0'-0" SHOWN ON THE ARCHITECTURAL DRAWINGS CORRESPONDS TO THE FINISH FLOOR ELEVATION OF THE GROUND FLOOR. ESTABLISH THE ACTUAL ELEVATION WITH RESPECT TO SITE-SPECIFIC BENCHMARKS AND CONTROL POINTS AS DEFINED IN THE CIVIL DRAWINGS.

C. "FINISH FLOOR" ELEVATIONS ARE MEASURED AT THE TOP OF THE CONCRETE FLOOR SLAB UNLESS OTHERWISE NOTED. APPLIED FINISHES SUCH AS RESILIENT FLOORING OR CARPET MAY RAISE THE ACTUAL FINISH SURFACE ABOVE THE REFERENCE ELEVATION PROVIDED FOR THE FINISH FLOOR.

D. CEILING HEIGHT ELEVATIONS ARE MEASURED TO BOTTOM OF FINISH SURFACES AND STATED IN RELATION TO DISTANCE ABOVE THE REFERENCE ELEVATION FOR THE FINISH FLOOR UNLESS OTHERWISE NOTED.

ARCHITECTURAL ASSEMBLY SYSTEMS REFERENCE

FIRE RESISTIVE RATING INDICATION

- 0 HOUR SMOKE PARTITION
- 1 HOUR FIRE RESISTANCE RATING
- 2 HOUR FIRE RESISTANCE RATING
- 3 HOUR FIRE RESISTANCE RATING
- 4 HOUR FIRE RESISTANCE RATING

ARCHITECTURAL SYMBOL NOTES

A. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE AND DEFINE TYPICAL GRAPHIC SYMBOLS WHICH MAY TYPICALLY OCCUR ON THE ARCHITECTURAL DRAWINGS.

B. ADDITIONAL SYMBOLS NOT SHOWN OR DEFINED ON THIS SHEET MAY BE USED ON THE ARCHITECTURAL DRAWINGS AND ARE TYPICALLY DEFINED ON OTHER SHEETS.

C. SYMBOLS ARE NOT DRAWN TO SCALE. TO DETERMINE THE ACTUAL SIZES OF ELEMENTS REPRESENTED BY SYMBOLS, REFER TO THE SPECIFICATIONS AND OTHER SHEETS, AS MAY APPLY.

ARCHITECTURAL MATERIAL INDICATIONS

PLAN AND SECTION

- EARTH
- AGGREGATE BASE COURSE
- CONCRETE
- CONCRETE MASONRY UNIT
- BRICK MASONRY
- PRECAST CONCRETE
- LIMESTONE, SANDSTONE, GRANITE
- MARBLE
- STEEL, STAINLESS STEEL (LARGE SCALE)
- ALUMINUM (LARGE SCALE)
- OTHER METALS (LARGE SCALE)
- WOOD FRAMING - CONTINUOUS (LARGE SCALE)
- WOOD FRAMING - DISCONTINUOUS (LARGE SCALE)
- PLYWOOD (LARGE SCALE)
- FINISH WOOD (LARGE SCALE)
- EIFS INSULATION BOARD (LARGE SCALE)
- SEMI-RIGID INSULATION (LARGE SCALE)
- BATT INSULATION (LARGE SCALE)
- MORTAR, SAND, FIREPROOFING, STUCCO, GYPSUM BOARD
- TERRAZZO (LARGE SCALE)
- COMPOSITE BOARD (LARGE SCALE)
- ACOUSTIC TILE (LARGE SCALE)
- PROTECTION BOARD (LARGE SCALE)
- CERAMIC TILE (LARGE SCALE)
- GLASS (LARGE SCALE)

ELEVATION

- PLASTER CONCRETE
- MASONRY, METAL SIDING (HORIZONTAL)
- GLASS BLOCK, CERAMIC TILE
- METAL SIDING (VERTICAL)
- GLASS

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ISSUED FOR	REV	DATE
PERMIT DOCUMENTS		04/12/2021
95% CONSTRUCTION DOCUMENTS		04/12/2021
DESIGN DEVELOPMENT		03/05/2021
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
ABBREVIATIONS AND SYMBOLS

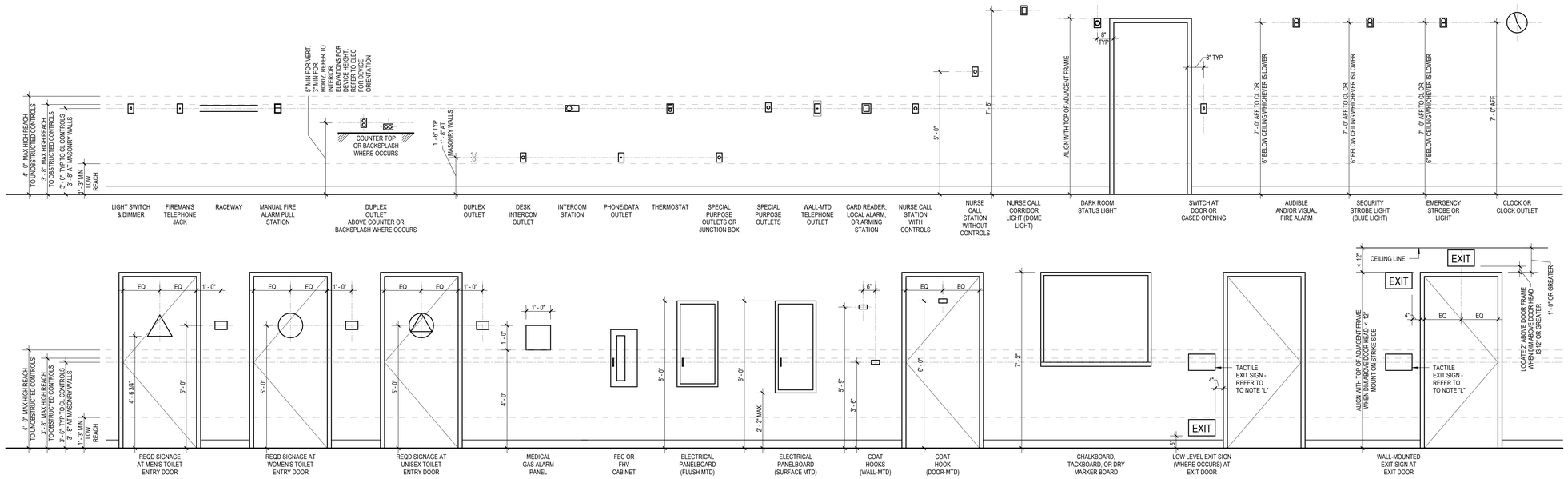
PROJECT NUMBER 12808

SHEET NUMBER CD 1.A.001

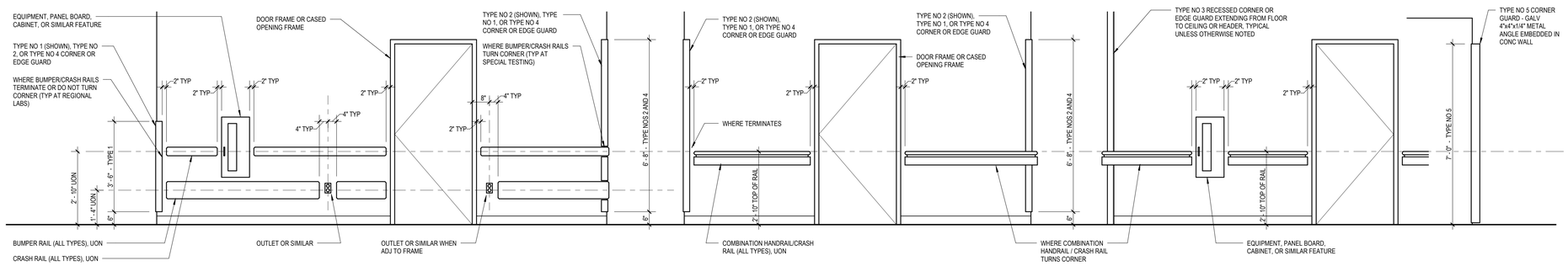
Author

Plot Date: 4/12/2021 6:10:53 PM

TYPICAL MOUNTING HEIGHTS AND CLEARANCES



CORNER GUARD / BUMPER RAIL / CRASH RAIL / CORRIDOR HANDRAIL TYPICAL MOUNTING HEIGHTS AND CONFIGURATION DIAGRAMS



ARCHITECTURAL DIMENSIONING CONVENTIONS

1. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF THE WORK AT THE "APPROXIMATE LOCATION SHOWN," DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.

2. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN (OR MAY BE DERIVED FROM THOSE SHOWN OR NOTED) ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, CONFIGURATION DETAILS, AND SPECIFICATIONS. SEE THE NOTES BELOW AND SYMBOLS ON SHEET A0.1 FOR DIMENSIONING CONVENTIONS USED ON THIS PROJECT.

3. EXCEPT WHERE SPECIFICALLY NOTED TO THE CONTRARY, ALL DIMENSIONS SHOWN ON THE ARCHITECTURAL DRAWINGS CONFORM TO THE FOLLOWING CONVENTIONS:

   A. DIMENSIONS UTILIZING THE "CENTERLINE" SYMBOL ARE MEASURED TO:

   - STRUCTURAL OR DIMENSIONAL GRID LINES.
   - CENTERLINE OF CONCRETE OR CONC MASONRY UNIT WALLS (EXCLUSIVE OF FURRING OR APPLIED FINISHES HAVING THICKNESS). REFER TO THE ARCH PLANS AND SECTIONS, THE STRUCT DRAWINGS, OR PARTITION SCHEDULE TO DETERMINE THE THICKNESS OF CONCRETE OR CONC MASONRY UNIT WALLS.
   - CENTERLINE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALLS) AT PARTITIONS FRAMED WITH METAL STUDS. REFER TO "PARTITION SCHEDULE" TO DETERMINE THICKNESS OF EACH PARTITION TYPE.
   - CENTERLINE OF DOOR, WINDOW, OR LOUVER OPENING.
   - CENTERLINE OF EQUIPMENT OR FURNISHING.
   - CENTERLINE OF OTHER FEATURES AS INDICATED.

- CONTINUED AT TOP OF NEXT COLUMN

3. NOTE NO 3 CONTINUED:

   B. REFER TO SHEET A0.1 FOR SYMBOL USED TO INDICATE CENTERLINE DIMENSION.

   C. DIMENSIONS UTILIZING THE "FACE OF" SYMBOL ARE MEASURED TO:

   - FACE OF CONCRETE OR CONC MASONRY UNIT WALL (EXCLUSIVE OF APPLIED FINISHES HAVING THICKNESS OR FURRING WHICH MAY BE ADDED TO THE FACE OF SUCH WALLS).
   - FACE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALL) AS DEFINED BY THE PARTITION SCHEDULE. UNLESS NOTED AS A "FACE OF FINISH" OR "CLEAR" DIMENSION (SEE NOTE 'E' BELOW), DIMENSIONS ARE NOT MEASURED TO THE FACE OF APPLIED FINISH. REFER TO THE "PARTITION SCHEDULE" TO DETERMINE THE THICKNESS OF EACH PARTITION TYPE.
   - INSIDE EDGE OF FINISHED DOOR OPENING. REFER TO THE "DOOR SCHEDULE" FOR ADDITIONAL DIMENSIONAL INFORMATION.
   - DIMENSION OR WORK POINT AS INDICATED ON RELATED ARCH DETAIL PLAN, SECTION, ELEVATION, LAYOUT OR CONFIGURATION DETAIL, OR CONSTRUCTION DETAIL.

   D. REFER TO SHEET A0.1 FOR SYMBOL USED TO INDICATE "FACE OF" DIMENSION.

   E. WHERE "FACE OF FINISH" OR "CLEAR" DIMENSIONS ARE SPECIFICALLY NOTED, THE DIM IS MEASURED TO:

   - FINISH FACES AT THE MOST NARROW OR CONSTRICTED POINTS OF SECTION WHERE DIMENSION IS SHOWN, WHEN THE DIMENSION OCCURS ACROSS AN OPEN SPACE. THIS CASE, A "FACE OF FINISH" DIMENSION IS EQUIVALENT TO A "CLEAR" DIMENSION.

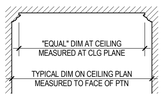
- CONTINUED AT TOP OF NEXT COLUMN

3. NOTE NO 3 CONTINUED:

   - FINISH FACES AT THE WIDEST OR MOST EXPANSIVE POINTS OF THE SECTION THE DIMENSION IS SHOWN WHEN THE DIMENSION OCCURS ACROSS AN OBJECT OR GROUP OF OBJECTS.

   F. WHERE "EQUAL" DIMENSIONS ARE USED ON REFLECTED CEILING PLANS TO LOCATE CEILING GRID WORK POINTS, MEASURE DIMENSIONS TO:

   - EDGE OF THE INDICATED CEILING AT THE FACE OF THE ADJACENT APPLIED FINISH MEASURED AT THE PLANE OF THE CEILING.
   - CAUTION: DUE TO THE POSSIBLE APPLICATION OF APPLIED FINISHES - THICKNESS OF WHICH MAY VARY BETWEEN FLOOR AND CEILING AND IS NOT ACCOUNTED FOR (EXCEPT AS INDICATED BY "FOF" OR "CLEAR") BY THE DIMENSION SHOWN ON THE FLOOR PLANS - THE CONTRACTOR MUST ADJUST, AS NECESSARY, THE FLOOR PLAN DIMENSIONS TO REFLECT THE ACTUAL DIMENSIONS FOUND AT PLANE OF THE CEILING.

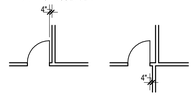


4. WHERE DIMENSIONS ARE NOT PROVIDED ON FLOOR PLANS TO LOCATE DOOR OPENINGS, APPLY THE FOLLOWING RULES, IN ORDER, TO DETERMINE THE LOCATION OF DOOR OPENINGS:

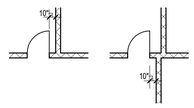
   A. DOOR OPENINGS MAY BE DIMENSIONED ON DRAWINGS OTHER THAN THE FLOOR PLANS. REFER TO THE SECTIONS, ELEVATIONS, DETAILS, AND DOOR SCHEDULE NOTES FOR ADDITIONAL DIMENSIONAL INFORMATION.

   B. WHERE THE HINGE-SIDE OF A DOOR IS SHOWN ADJACENT TO A WALL - OR WALLS - PERPENDICULAR TO THE WALL IN WHICH THE DOOR OPENING OCCURS:

   AT DOORS OCCURRING IN METAL FRAMED GYPSUM BOARD PARTITIONS, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 4 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.



   AT DOORS OCCURRING IN WALLS OF CONC MASONRY UNIT CONSTRUCTION, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 10 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.



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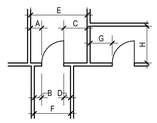
4. NOTE NO 4 CONTINUED:

   C. WHERE DOOR OCCURS NOT ADJACENT TO A PERPENDICULAR WALL AND EITHER "DIM E" OR "DIM F" IS 16'-0" OR LESS, LOCATE DOOR UTILIZING THE FOLLOWING MINIMUM DIMENSIONS:

   - DIMENSION A = 18 INCHES MIN
   - DIMENSION B = 12 INCHES MIN
   - DIMENSION C = DOOR WIDTH + 2 INCHES MINIMUM
   - DIMENSION D = 4 INCHES MIN AT METAL FRAMED GYP BD PARTITIONS OR - EVEN MULTIPLE OF 1/2 CMU MODULE PLUS 2 INCHES AT CONC MASONRY UNIT WALLS
   - DIMENSIONS E AND F = AS SHOWN ON PLANS
   - DIMENSION G = 36 INCHES MIN
   - DIMENSION H = 60 INCHES MIN

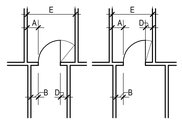


   - IF SPACE ALLOWS, CENTER DOOR IN WALL SHOWN ON THE DRAWINGS SO THAT EITHER "DIM A" EQUALS "DIM C" OR "DIM B" EQUALS "DIM D".

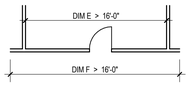
- CONTINUED AT TOP OF NEXT COLUMN

4. NOTE NO 4 CONTINUED:

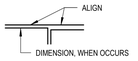
   D. IF "DIM E" IN DIAGRAMS BELOW IS LESS THAN THE SUM OF 2 TIMES THE DOOR WIDTH PLUS 20 INCHES, LOCATE DOOR SO THAT MINIMUMS STATED BY NOTE NO 4C ABOVE FOR "DIM A", "DIM B," AND "DIM D" ARE MET - MAXIMIZING "DIM A" AND MINIMIZING "DIM D" TO THE EXTENT POSSIBLE.



   E. WHERE DOOR IS SHOWN LOCATED IN A LARGE EXPANSE OF OPEN WALL ("DIM E" AND "DIM F" IN DIAGRAM BELOW BOTH EXCEED 16'-0"), PLACE DOOR AT APPROXIMATE LOCATION SHOWN ON THE PLANS. WHERE DOOR OCCURS IN CMU WALL, PLACE DOOR AT APPROXIMATE LOCATION SHOWN WHILE MINIMIZING "CUT" OR PARTIAL CMU MODULES ADJACENT TO THE JAMBS.



5. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS ABUT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED.



GENERAL MOUNTING HEIGHT NOTES

A. IT IS THE INTENT OF THE DESIGN THAT ALL ITEMS SHOWN MOUNTED AT TYPICAL HEIGHTS BE ACCESSIBLE TO PERSONS WITH DISABILITIES.

B. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE TYPICAL MOUNTING HEIGHTS AND - WHERE APPLICABLE - TYPICAL MINIMUM OR MAXIMUM CLEARANCES AND/OR TYPICAL MOUNTING CONFIGURATIONS FOR A VARIETY OF ITEMS. CAUTION: THIS SHEET MAY ILLUSTRATE ITEMS OR CONFIGURATIONS WHICH DO NOT OCCUR AS PART OF THE WORK OF THIS PROJECT. REFER TO THE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND SCHEDULES TO DETERMINE WHICH ITEMS AND CONFIGURATIONS APPLY TO THE WORK OF THIS PROJECT.

C. NOT ALL PROJECT ITEMS MAY BE REPRESENTED ON THIS SHEET. FOR ITEMS WITH OPERABLE PARTS NOT SHOWN ON THIS SHEET, THE ITEM SHALL BE MOUNTED SUCH THAT THE OPERABLE PART IS A MAXIMUM OF 42" ABOVE FINISH FLOOR UNLESS SPECIFICALLY NOTED OR DIMENSIONED OTHERWISE.

D. THE MOUNTING HEIGHTS, CLEARANCES, AND CONFIGURATIONS SHOWN ON THIS SHEET ARE TYPICAL AND SHALL APPLY TO ALL INSTANCES OF THE ITEM (OR GROUP OF ITEMS) SHOWN UNLESS SPECIFICALLY NOTED OR DIMENSIONED OTHERWISE.

E. SPECIAL OR NON-TYPICAL MOUNTING HEIGHTS OCCUR ONLY WHERE INDICATED BY ANNOTATED SYMBOLS; BY KEY NOTES; BY NOTES ON PLANS, ELEVATIONS, OR DETAILS; OR BY UNIQUE DIMENSIONS ON ELEVATIONS OR DETAILS.

F. FOR ADDITIONAL INFORMATION REGARDING THE PRECEDENCE OF DRAWINGS FOR DETERMINING THE EXACT LOCATION OF EACH EXPOSED PART OF THE WORK, REFER TO THE "ARCHITECTURAL GENERAL NOTES" AND TO THE "TYPICAL RULES FOR DETERMINING MOUNTING HEIGHTS AND LOCATIONS" LOCATED PER THE INDEX OF DRAWINGS IN THIS SET.

G. TYPICAL MOUNTING HEIGHTS MAY BE ILLUSTRATED BY OTHER DRAWING SERIES, SUCH AS Q SERIES. REFER TO THE "INDEX OF DRAWINGS" FOR ADDITIONAL INFORMATION.

H. MOUNTING CONFIGURATION DIAGRAMS ARE ELEVATIONS WHICH ILLUSTRATE TYPICAL RULES GOVERNING THE RELATIONSHIPS BETWEEN, AND PLACEMENT OF, ITEMS WHICH OCCUR IN GROUPS OF RELATED ITEMS OR IN CLOSE PROXIMITY TO OTHER PARTS OF THE WORK (SUCH AS SWITCHES AND DOOR FRAMES). UNLESS OTHER MOUNTING CONFIGURATIONS ARE SPECIFICALLY NOTED, DIMENSIONED, OR ELEVATED, THE TYPICAL RELATIONSHIPS, ARRANGEMENTS, AND THE TYPICAL CONFIGURATION DIAGRAMS APPLY THROUGHOUT THE WORK OF THIS PROJECT.

J. TYPICAL MOUNTING CONFIGURATIONS FOR ADDITIONAL GROUPING NOT SHOWN ON THIS MAY BE SHOWN ON OTHER SHEETS. REFER TO THE "INDEX OF DRAWINGS" FOR ADDITIONAL INFORMATION.

K. FOR DEFINITION OF CORNER (OR EDGE) GUARDS TYPE NO'S 1 THRU 4, REFER TO THE APPLIED FINISH SCHEDULE ON SHEET A9.1. TYPE NO 5 CORNER GUARDS ARE 4"x4"x1/4" METAL ANGLES EMBEDDED IN CONCRETE WALL - SEE INDICATED DETAILS.

L. A TACTILE EXIT SIGN STATING "EXIT" AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN AREA OF REFUGE, AN EXIT STAIRWAY, AN EXIT RAMP, AN EXTERIOR AREA FOR ASSISTED RESCUE, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE.

M. REFER TO RULE 16 ON AD.4 FOR ITEM MOUNTING HEIGHTS IN MASONRY PARTITIONS.

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DESIGN DEVELOPMENT		03/09/2021
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE

TYPICAL MOUNTING HEIGHTS AND DIMENSIONING CONVENTIONS

12808

PROJECT NUMBER

CD **1.A.003**

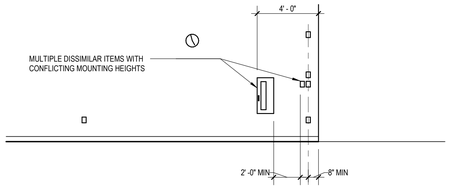
SHEET NUMBER

Author

Plot Date: 4/12/2021 6:10:55 PM

WHEN NOT DIMENSIONED AND SHOWN LOCATED ADJACENT TO CHANGE IN PLANE OF WALL, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: MOUNT ITEMS IN RELATION TO PLANE CHANGE USING TYPICAL OFFSET DIMENSION. VERTICALLY ALIGN CENTERS OF ITEMS MOUNTED AT DIFFERENT HEIGHTS.

WHEN MULTIPLE DISSIMILAR ITEMS HAVING CONFLICTING MOUNTING HEIGHTS ARE INDICATED, MOUNT FIRST ITEM IN RELATION TO PLANE CHANGE USING TYPICAL OFFSET DIMENSION. SEPARATE DISSIMILAR ITEM FROM GROUP OF SIMILAR ITEMS BY 24" MINIMUM AS ILLUSTRATED BY THIS DIAGRAM.

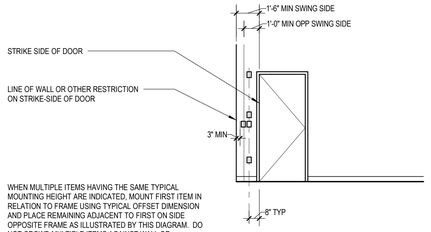


FOR PURPOSES OF THESE RULES, ITEMS SHOWN LOCATED APPROXIMATELY WITHIN 4 FEET OF PLANE CHANGE ARE CONSIDERED TO BE ADJACENT TO CHANGE IN PLANE.

RULE 13

WHEN NOT DIMENSIONED AND LOCATED ADJACENT TO CHANGE IN WALL DIRECTION

WHEN NOT DIMENSIONED AND SHOWN LOCATED ADJACENT TO STRIKE SIDE OF DOOR, AND WHEN STRIKE-SIDE CLEARANCE IS BETWEEN 12 INCHES AND 18 INCHES, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: MOUNT ITEMS IN RELATION TO FRAME USING TYPICAL OFFSET DIMENSION. VERTICALLY ALIGN CENTERS OF ITEMS MOUNTED AT DIFFERENT HEIGHTS.



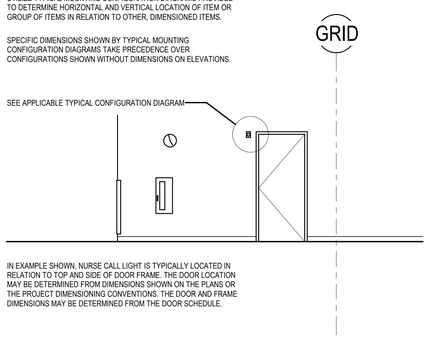
WHEN MULTIPLE ITEMS HAVING THE SAME TYPICAL MOUNTING HEIGHT ARE INDICATED, MOUNT FIRST ITEM IN RELATION TO FRAME USING TYPICAL OFFSET DIMENSION AND PLACE REMAINING ADJACENT TO FIRST ON SIDE OPPOSITE FRAME AS ILLUSTRATED BY THIS DIAGRAM. DO NOT CROWD MULTIPLE ITEMS AGAINST WALL OR RESTRICTION.

RULE 9

NOT DIMENSIONED AND LOCATED ADJACENT TO MINIMUM STRIKE-SIDE OF DOOR

UTILIZE TYPICAL MOUNTING CONFIGURATION DIAGRAMS PROVIDED TO DETERMINE HORIZONTAL AND VERTICAL LOCATION OF ITEM OR GROUP OF ITEMS IN RELATION TO OTHER, DIMENSIONED ITEMS.

SPECIFIC DIMENSIONS SHOWN BY TYPICAL MOUNTING CONFIGURATION DIAGRAMS TAKE PRECEDENCE OVER CONFIGURATIONS SHOWN WITHOUT DIMENSIONS ON ELEVATIONS.



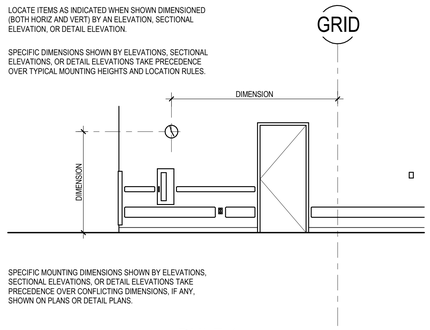
IN EXAMPLE SHOWN, NURSE CALL LIGHT IS TYPICALLY LOCATED IN RELATION TO TOP AND SIDE OF DOOR FRAME. THE DOOR LOCATION MAY BE DETERMINED FROM DIMENSIONS SHOWN ON THE PLANS OR THE PROJECT DIMENSIONING CONVENTIONS. THE DOOR AND FRAME DIMENSIONS MAY BE DETERMINED FROM THE DOOR SCHEDULE.

RULE 5

WHEN NO DIMENSIONS ARE PROVIDED IN PLANS OR ELEVATIONS

LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED (BOTH HORIZ AND VERT) BY AN ELEVATION, SECTIONAL ELEVATION, OR DETAIL ELEVATION.

SPECIFIC DIMENSIONS SHOWN BY ELEVATIONS, SECTIONAL ELEVATIONS, OR DETAIL ELEVATIONS TAKE PRECEDENCE OVER TYPICAL MOUNTING HEIGHTS AND LOCATION RULES.

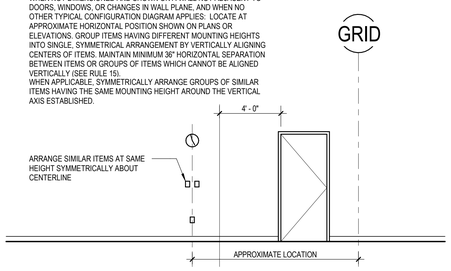


SPECIFIC MOUNTING DIMENSIONS SHOWN BY ELEVATIONS, SECTIONAL ELEVATIONS, OR DETAIL ELEVATIONS TAKE PRECEDENCE OVER CONFLICTING DIMENSIONS, IF ANY, SHOWN ON PLANS OR DETAIL PLANS.

RULE 1

WHEN COMPLETELY DIMENSIONED IN ELEVATION

WHEN NOT DIMENSIONED AND SHOWN ON A WALL NOT ADJACENT TO DOORS, WINDOWS, OR CHANGES IN WALL PLANE, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: LOCATE AT APPROXIMATE HORIZONTAL POSITION SHOWN ON PLANS OR ELEVATIONS. GROUP ITEMS HAVING DIFFERENT MOUNTING HEIGHTS INTO SINGLE, SYMMETRICAL ARRANGEMENT BY VERTICALLY ALIGNING CENTERS OF ITEMS. MAINTAIN MINIMUM 36" HORIZONTAL SEPARATION BETWEEN ITEMS OR GROUPS OF ITEMS WHICH CANNOT BE ALIGNED VERTICALLY (SEE RULE 15).
WHEN APPLICABLE, SYMMETRICALLY ARRANGE GROUPS OF SIMILAR ITEMS HAVING THE SAME MOUNTING HEIGHT AROUND THE VERTICAL AXIS ESTABLISHED.

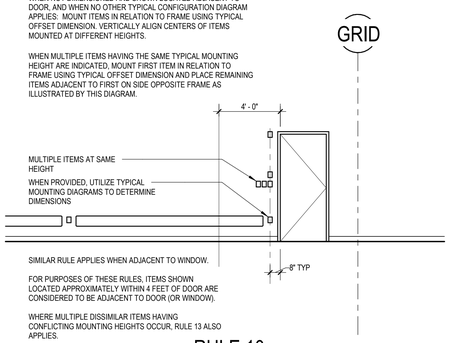


RULE 14

NOT DIMENSIONED AND LOCATED ON OPEN WALL

WHEN NOT DIMENSIONED AND SHOWN LOCATED ADJACENT TO DOORS, WINDOWS, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: MOUNT ITEMS IN RELATION TO FRAME USING TYPICAL OFFSET DIMENSION. VERTICALLY ALIGN CENTERS OF ITEMS MOUNTED AT DIFFERENT HEIGHTS.

WHEN MULTIPLE ITEMS HAVING THE SAME TYPICAL MOUNTING HEIGHT ARE INDICATED, MOUNT FIRST ITEM IN RELATION TO FRAME USING TYPICAL OFFSET DIMENSION AND PLACE REMAINING ITEMS ADJACENT TO FIRST ON SIDE OPPOSITE FRAME AS ILLUSTRATED BY THIS DIAGRAM.



SIMILAR RULE APPLIES WHEN ADJACENT TO WINDOW.

FOR PURPOSES OF THESE RULES, ITEMS SHOWN LOCATED APPROXIMATELY WITHIN 4 FEET OF DOOR ARE CONSIDERED TO BE ADJACENT TO DOOR (OR WINDOW).

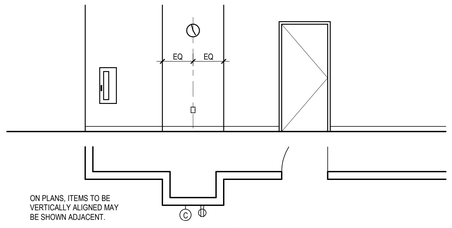
WHERE MULTIPLE DISSIMILAR ITEMS HAVING CONFLICTING MOUNTING HEIGHTS OCCUR, RULE 13 ALSO APPLIES.

RULE 10

NOT DIMENSIONED AND LOCATED ADJACENT TO DOOR OR WINDOW

WHEN NOT DIMENSIONED AND SHOWN LOCATED ON A COLUMN OR PILASTER, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: HORIZONTALLY CENTER ITEM ON FACE OF COLUMN OR PILASTER. ALIGN VERTICALLY CENTERS OF MULTIPLE ITEMS HAVING DIFFERING TYPICAL MOUNTING HEIGHTS.

WHEN MULTIPLE ITEMS HAVING THE SAME TYP MOUNTING HEIGHT ARE INDICATED, HORIZONTALLY CENTER GROUP OF ITEMS ON FACE OF COLUMN OR PILASTER (SEE RULE 7).

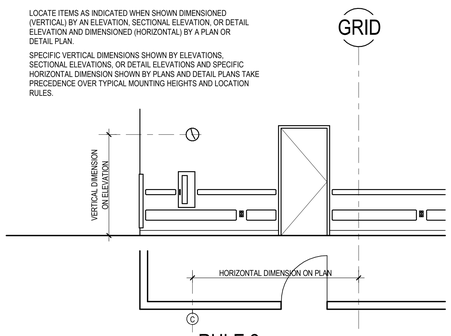


RULE 6

NOT DIMENSIONED AND LOCATED ON COLUMN OR PILASTER

LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED (VERTICAL) BY AN ELEVATION, SECTIONAL ELEVATION, OR DETAIL ELEVATION AND DIMENSIONED (HORIZONTAL) BY A PLAN OR DETAIL PLAN.

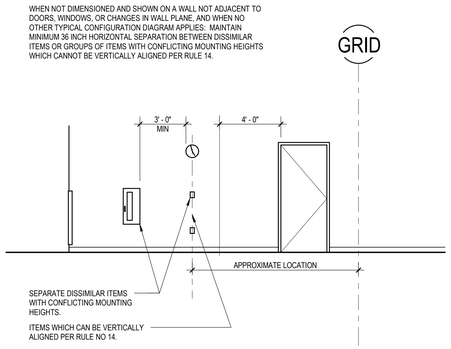
SPECIFIC VERTICAL DIMENSIONS SHOWN BY ELEVATIONS, SECTIONAL ELEVATIONS, OR DETAIL ELEVATIONS AND SPECIFIC HORIZONTAL DIMENSION SHOWN BY PLANS AND DETAIL PLANS TAKE PRECEDENCE OVER TYPICAL MOUNTING HEIGHTS AND LOCATION RULES.



RULE 2

WHEN COMPLETELY DIMENSIONED BY COMBINATION OF PLAN AND ELEVATION

WHEN NOT DIMENSIONED AND SHOWN ON A WALL NOT ADJACENT TO DOORS, WINDOWS, OR CHANGES IN WALL PLANE, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: MAINTAIN MINIMUM 36 INCH HORIZONTAL SEPARATION BETWEEN DISSIMILAR ITEMS OR GROUPS OF ITEMS WITH CONFLICTING MOUNTING HEIGHTS WHICH CANNOT BE VERTICALLY ALIGNED PER RULE 14.

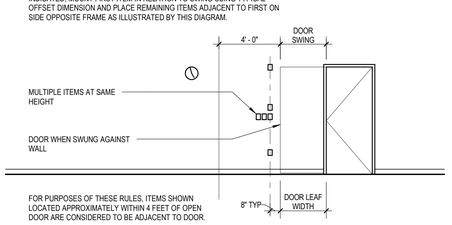


RULE 15

NOT DIMENSIONED AND LOCATED ON OPEN WALL

WHEN NOT DIMENSIONED AND SHOWN LOCATED ADJACENT TO DOOR, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: MOUNT ITEMS IN RELATION TO SWING USING TYP OFFSET DIMENSION. VERTICALLY ALIGN CENTERS OF ITEMS MOUNTED AT DIFFERENT HEIGHTS.

WHEN MULTIPLE ITEMS HAVING THE SAME TYPICAL MOUNTING HEIGHT ARE INDICATED, MOUNT FIRST ITEM IN RELATION TO SWING USING TYPICAL OFFSET DIMENSION AND PLACE REMAINING ITEMS ADJACENT TO FIRST ON SIDE OPPOSITE FRAME AS ILLUSTRATED BY THIS DIAGRAM.



FOR PURPOSES OF THESE RULES, ITEMS SHOWN LOCATED APPROXIMATELY WITHIN 4 FEET OF OPEN DOOR ARE CONSIDERED TO BE ADJACENT TO DOOR.

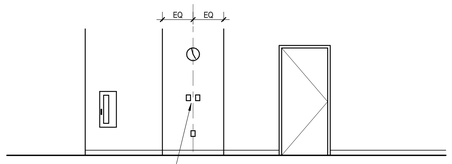
WHERE MULTIPLE DISSIMILAR ITEMS HAVING CONFLICTING MOUNTING HEIGHTS OCCUR, RULE 13 ALSO APPLIES.

RULE 11

NOT DIMENSIONED AND LOCATED ADJACENT TO DOOR AND ON WALL AGAINST WHICH DOOR SWINGS

WHEN NOT DIMENSIONED AND SHOWN LOCATED ON A COLUMN OR PILASTER, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: HORIZONTALLY CENTER GROUP OF SIMILAR ITEMS HAVING THE SAME MOUNTING HEIGHT(S) ABOUT THE CENTERLINE OF THE COLUMN OR PILASTER.

WHEN APPLICABLE, COMBINE THIS RULE WITH RULE 6 TO SYMMETRICALLY ARRANGE GROUPS OF ITEMS HAVING BOTH DIFFERING AND SIMILAR MOUNTING HEIGHTS.

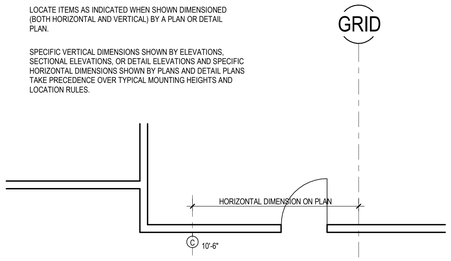


RULE 7

NOT DIMENSIONED AND LOCATED ON COLUMN OR PILASTER

LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED (BOTH HORIZONTAL AND VERTICAL) BY A PLAN OR DETAIL PLAN.

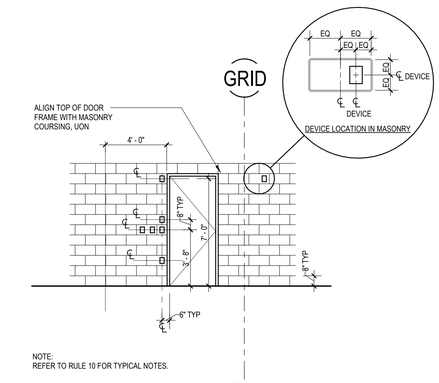
SPECIFIC VERTICAL DIMENSIONS SHOWN BY ELEVATIONS, SECTIONAL ELEVATIONS, OR DETAIL ELEVATIONS AND SPECIFIC HORIZONTAL DIMENSIONS SHOWN BY PLANS AND DETAIL PLANS TAKE PRECEDENCE OVER TYPICAL MOUNTING HEIGHTS AND LOCATION RULES.



NON-TYPICAL MOUNTING HEIGHTS MAY BE INDICATED BY SYMBOL (AS SHOWN), BY KEYED NOTE, OR BY NOTATION ON PLANS.

RULE 3

WHEN COMPLETELY DIMENSIONED ON PLANS



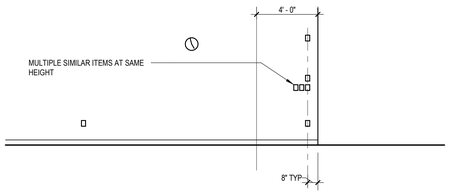
NOTE:
REFER TO RULE 10 FOR TYPICAL NOTES.

RULE 16

NOT DIMENSIONED AND LOCATED ADJACENT TO DOOR OR WINDOW IN MASONRY

WHEN NOT DIMENSIONED AND SHOWN LOCATED ADJACENT TO CHANGE IN PLANE OF WALL, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: MOUNT ITEMS IN RELATION TO PLANE CHANGE USING TYPICAL OFFSET DIMENSION. VERTICALLY ALIGN CENTERS OF ITEMS MOUNTED AT DIFFERENT HEIGHTS.

WHEN MULTIPLE SIMILAR ITEMS HAVING THE SAME TYPICAL MOUNTING HEIGHT ARE INDICATED, MOUNT FIRST ITEM IN RELATION TO PLANE CHANGE USING TYPICAL OFFSET DIMENSION AND PLACE REMAINING ITEMS ADJACENT TO FIRST ON SIDE OPPOSITE PLANE CHANGE AS ILLUSTRATED BY THIS DIAGRAM.



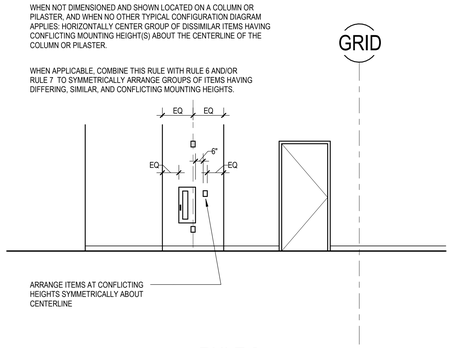
FOR PURPOSES OF THESE RULES, ITEMS SHOWN LOCATED APPROXIMATELY WITHIN 4 FEET OF PLANE CHANGE ARE CONSIDERED TO BE ADJACENT TO CHANGE IN PLANE.

RULE 12

WHEN NOT DIMENSIONED AND LOCATED ADJACENT TO CHANGE IN WALL DIRECTION

WHEN NOT DIMENSIONED AND SHOWN LOCATED ON A COLUMN OR PILASTER, AND WHEN NO OTHER TYPICAL CONFIGURATION DIAGRAM APPLIES: HORIZONTALLY CENTER GROUP OF DISSIMILAR ITEMS HAVING CONFLICTING MOUNTING HEIGHT(S) ABOUT THE CENTERLINE OF THE COLUMN OR PILASTER.

WHEN APPLICABLE, COMBINE THIS RULE WITH RULE 6 AND/OR RULE 7 TO SYMMETRICALLY ARRANGE GROUPS OF ITEMS HAVING DIFFERING, SIMILAR, AND CONFLICTING MOUNTING HEIGHTS.

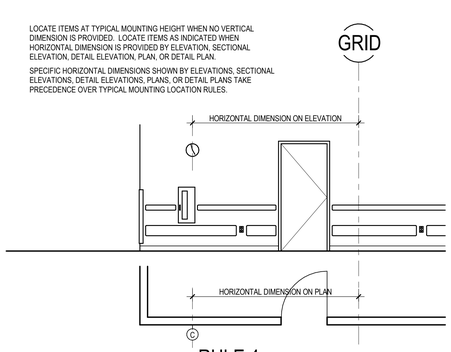


RULE 8

NOT DIMENSIONED AND LOCATED ON COLUMN OR PILASTER

LOCATE ITEMS AT TYPICAL MOUNTING HEIGHT WHEN NO VERTICAL DIMENSION IS PROVIDED. LOCATE ITEMS AS INDICATED WHEN HORIZONTAL DIMENSION IS PROVIDED BY ELEVATION, SECTIONAL ELEVATION, DETAIL ELEVATION, PLAN, OR DETAIL PLAN.

SPECIFIC HORIZONTAL DIMENSIONS SHOWN BY ELEVATIONS, SECTIONAL ELEVATIONS, DETAIL ELEVATIONS, PLANS, OR DETAIL PLANS TAKE PRECEDENCE OVER TYPICAL MOUNTING LOCATION RULES.



RULE 4

WHEN DIMENSIONED HORIZONTALLY IN PLAN OR ELEVATION, BUT NOT DIMENSIONED VERTICALLY

GENERAL SHEET NOTES

A. THE A-SERIES DRAWINGS ESTABLISH AND GOVERN THE FINISHED APPEARANCE AND LOCATION OF THE EXPOSED WORK OF ALL TRADES, INCLUDING THAT WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES . LOCATIONS SHOWN ON DRAWINGS OF OTHER DISCIPLINES ARE SCHEMATIC, UNLESS NOTED OTHERWISE ON THE A-SERIES DRAWINGS. THE A-SERIES DRAWINGS TAKE PRECEDENCE FOR DETERMINING THE FINISHED APPEARANCE AND LOCATION OF ALL PARTS OF THE WORK.

EXCEPTION: DIMENSIONED LOCATIONS SHOWN ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE:

1. SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEYED NOTE, OR NOTATION ON THE A-SERIES DRAWINGS.
2. WHICH A-SERIES SHEET OR SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.

B. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE THE TYPICAL RULES WHICH GOVERN THE LOCATION, CONFIGURATION IN RELATIONSHIP TO OTHER ELEMENTS OF THE WORK, AND FINISHED ALIGNMENT OF ALL ITEMS OCCURRING ON VERTICAL SURFACES OF THE PROJECT.

C. THE A-SERIES FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, AND DETAILS ILLUSTRATE THE DIMENSIONED LOCATION OF MANY - BUT NOT ALL - EXPOSED PARTS OF THE WORK. APPLY THE RULES ON THIS SHEET - IN ORDER - TO DETERMINE THE LOCATION OF EXPOSED PART OF THE WORK.

1. WHEN UNIQUELY AND SPECIFICALLY DIMENSIONED ON THE A-SERIES PLANS, SECTIONS, OR ELEVATIONS (OR COMBINATION THEREOF), LOCATE AS DIMENSIONED (SEE RULES 1 THRU 3).
2. WHEN SHOWN WITH HORIZONTAL DIMENSION ON THE A-SERIES PLANS, SECTIONS, OR ELEVATIONS, LOCATE HORIZONTALLY AS DIMENSIONED AND AT THE APPLICABLE TYPICAL MOUNTING HEIGHT (SEE RULE 4).
3. IF NOT SHOWN, OR IF SHOWN BUT NOT DIMENSIONED, BY THE A-SERIES PLANS OR ELEVATIONS, LOCATE AS INDICATED BY THE APPLICABLE TYPICAL ARCHITECTURAL CONFIGURATION DIAGRAM (SEE RULE 5).
4. WHEN DIMENSION SHOWN ON DRAWINGS OF OTHER DISCIPLINES IS INDICATED TO GOVERN, LOCATE AS DIMENSIONED. UTILIZE RULES 6 THRU 15 TO ESTABLISH RELATIVE LOCATIONS OF ITEMS NOT DIMENSIONED WHICH MAY OCCUR IN PROXIMITY TO THE DIMENSIONED ITEM.
5. IF NO TYPICAL ARCHITECTURAL CONFIGURATION DIAGRAM APPLIES, LOCATE AT APPROXIMATE HORIZONTAL LOCATION SHOWN AND AT APPLICABLE TYPICAL MOUNTING HEIGHT. UTILIZE RULES 6 THROUGH 15 TO ESTABLISH LOCATION AND RELATIONSHIP WITH OTHER PARTS OF THE WORK.

D. TYPICAL ARCHITECTURAL CONFIGURATION DIAGRAMS ARE ELEVATIONS WHICH ILLUSTRATE TYPICAL RULES GOVERNING THE RELATIONSHIPS BETWEEN - AND PLACEMENT OF - ITEMS WHICH OCCUR IN GROUPS OF RELATED ITEMS (SUCH AS TOILET ACCESSORIES) OR IN CLOSE PROXIMITY TO OTHER PARTS OF THE WORK (SUCH AS SWITCHES AND DOOR FRAMES). REFER TO THE "PROJECT SHEET INDEX" FOR ADDITIONAL INFORMATION REGARDING OTHER TYPICAL ARCHITECTURAL CONFIGURATION DRAWINGS PROVIDED FOR THIS PROJECT.

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SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
TYPICAL RULES FOR DETERMINING MOUNTING HEIGHTS AND LOCATIONS

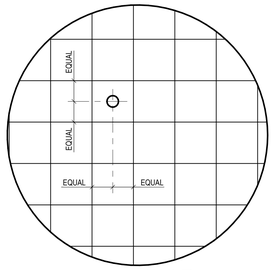
12808
PROJECT NUMBER

CD 1.A.004
SHEET NUMBER

Author
Plot Date: 4/12/2021 6:10:55 PM

TYPICAL RULES FOR DETERMINING REFLECTED CEILING PLAN LOCATIONS, DIMENSIONS, AND CONFIGURATIONS

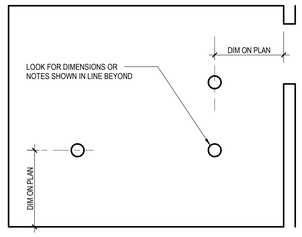
LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) AT CENTER OF PANEL ON SQUARE GRID-TYPE CEILINGS



RULE 7

WHEN NOT DIMENSIONED BUT OCCURS ON A SQUARE GRID-TYPE CEILING

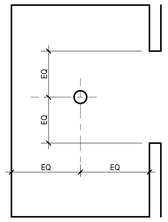
LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE (OR CEILING PLANE).



RULE 5

ALIGN WITH FEATURES SHOWN DIMENSIONED ELSEWHERE IN SPACE

LOCATE ITEMS CENTERED ON ADJACENT OPENING OR FEATURE WHEN SHOWN (BUT NOT DIMENSIONED) OFF-CENTER IN OVERALL SPACE BUT CENTERED AGAINST ADJACENT FEATURE.

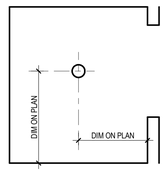


RULE 3

WHEN OFF-CENTER IN SPACE BUT CENTERED ON ADJACENT FEATURE

LOCATE ITEMS AS INDICATED WHEN SHOWN DIMENSIONED BY A REFLECTED CEILING PLAN, ENLARGED REFLECTED CEILING PLAN, OR DETAIL.

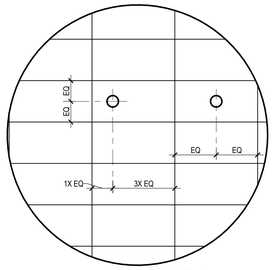
SPECIFIC DIMENSIONS SHOWN BY REFLECTED CEILING PLANS, ELEVATIONS, OR DETAILS TAKE PRECEDENCE OVER TYPICAL LOCATION RULES.



RULE 1

WHEN COMPLETELY DIMENSIONED ON REFLECTED CEILING PLAN

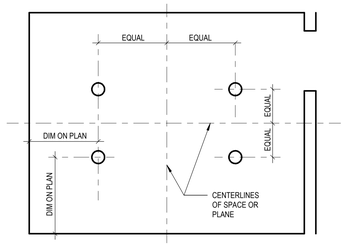
LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) AT CENTER OF SHORT DIRECTION OF RECTANGULAR PANEL; LOCATE AT 1/4, 1/2, OR 3/4 POINT OF LONG DIRECTION OF RECTANGULAR PANEL



RULE 8

WHEN NOT DIMENSIONED BUT OCCURS ON A RECTANGULAR GRID-TYPE CEILING

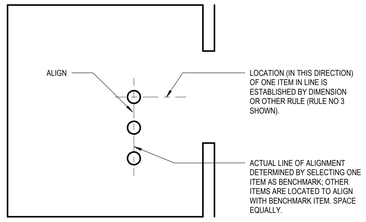
LOCATE ITEMS ALIGNED WITH OTHER ITEMS SHOWN DIMENSIONED ELSEWHERE IN SPACE (OR CEILING PLANE).



RULE 6

LOCATE FEATURES SYMMETRICALLY

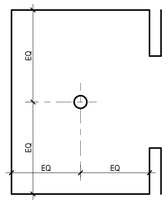
LOCATE ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, DEVICES, ETC) ALIGNED WITH ADJACENT ITEMS FOR WHICH DIMENSIONS OR RULES ARE PROVIDED. VISUAL ALIGNMENT IS CRITICAL. THE CONTRACTOR SHALL SELECT ONE ITEM IN EACH LINE (ON BASIS OF TOLERANCES, SEQUENCE OF CONSTRUCTION, TRADE, OR OTHER CRITERIA) TO SERVE AS THE BENCHMARK FOR EACH ALIGNMENT.



RULE 4

WHEN ALIGNED WITH OTHER FEATURES

LOCATE ITEMS CENTERED IN SPACE (OR CEILING PLANE) WHEN SHOWN (BUT NOT DIMENSIONED) VISUALLY AT APPROXIMATE CENTER OF SPACE.

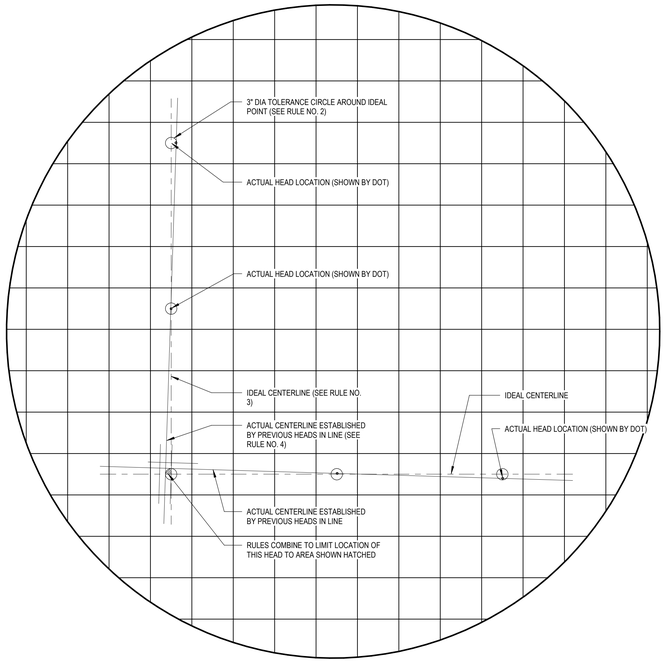


RULE 2

WHEN NOT DIMENSIONED BUT SHOWN CENTERED

TYPICAL TOLERANCES FOR LOCATING SPRINKLER HEADS

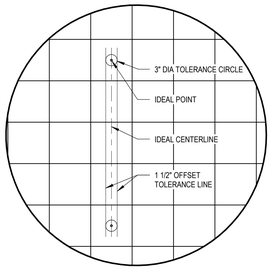
RULES NO. 2, NO. 3, AND 4 WHEN COMBINED MAY RESULT IN MORE RESTRICTIVE TOLERANCES



RULE 5

RULES COMBINED

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.

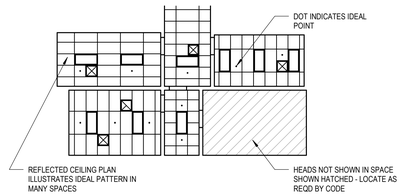


RULE 3

LOCATE LINES OF HEADS WITHIN 1 1/2" OF IDEAL CENTERLINE

FOR MANY SPACES, THE ARCHITECTURAL REFLECTED CEILING PLANS ESTABLISH AN IDEAL PATTERN FOR LOCATING SPRINKLER HEADS. IN SPACES WHERE HEADS ARE SHOWN, FOLLOW PATTERN ESTABLISHED BY THE DRAWINGS. WHERE ADDL HEADS ARE REQUIRED TO CONFORM WITH CODE, PROVIDE HEADS IN GENERAL CONFORMITY WITH PATTERN ESTABLISHED BY THE DRAWINGS.

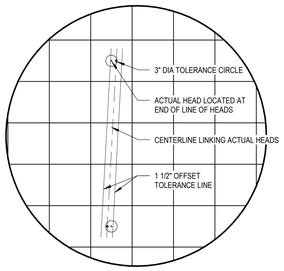
IN SPACES WHERE SPRINKLER HEADS ARE NOT SHOWN BY THE ARCHITECTURAL REFLECTED CEILING PLANS, PROVIDE HEADS ARE REQUIRED BY CODE.



RULE 1

LOCATE HEADS AS SHOWN ON A-SERIES DRAWINGS

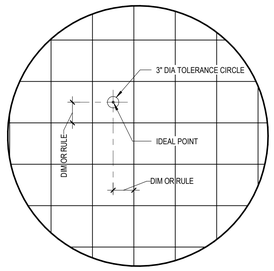
LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.



RULE 4

LOCATE LINES OF HEADS WITHIN 1 1/2" OF LINE LINKING ACTUAL END HEADS

LOCATE SPRINKLER HEADS WITHIN 3" DIAMETER OF IDEAL POINT DIMENSIONED (OR SHOWN BY RULE) ON REFLECTED CEILING PLAN.



RULE 2

LOCATE HEADS WITHIN 3" DIAMETER OF IDEAL LOCATION POINT

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SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE

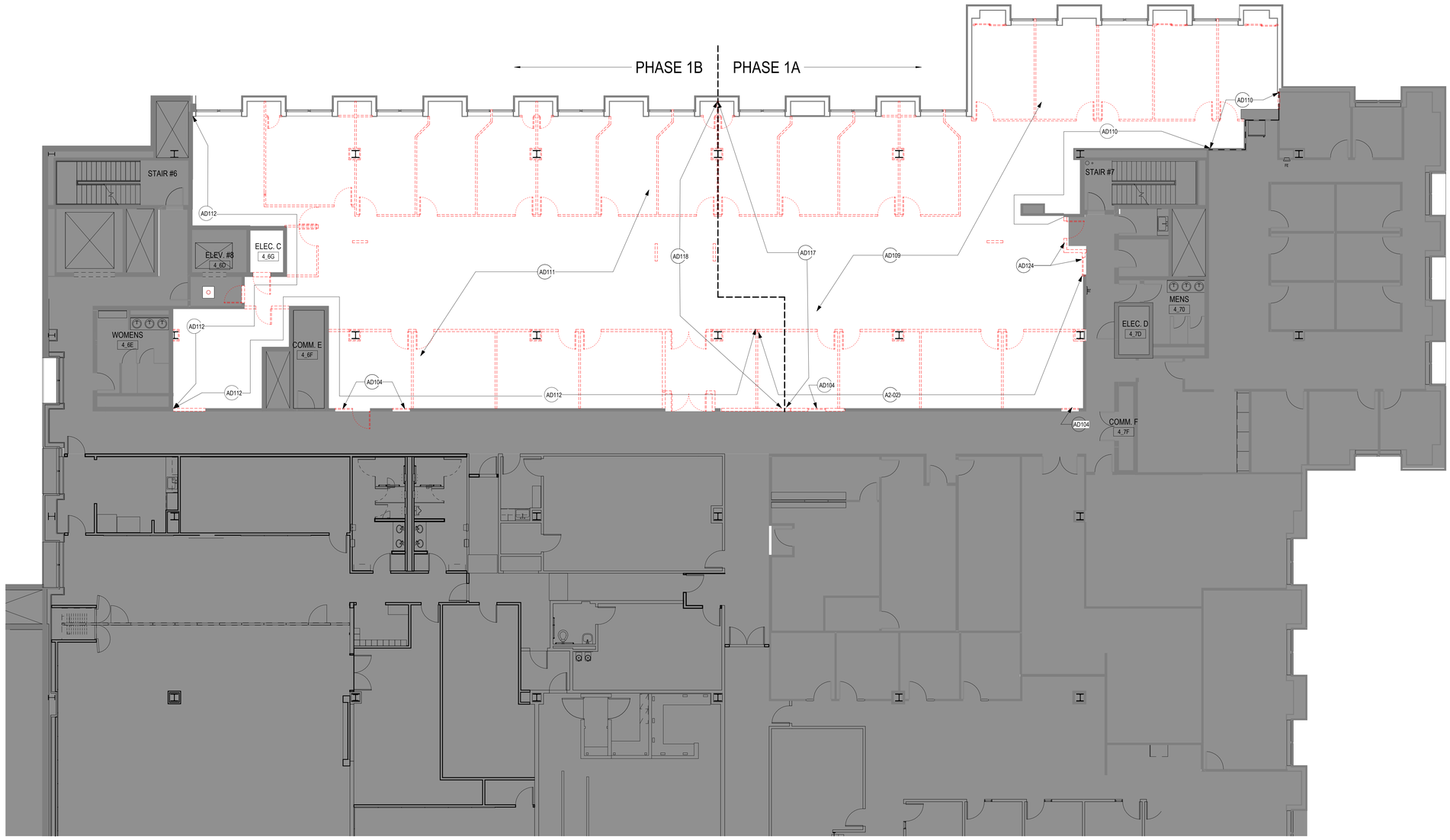
TYPICAL REFLECTED CEILING PLAN LOCATIONS AND CONFIGURATIONS

PROJECT NUMBER 12808

CD 1.A.005

SHEET NUMBER

Plot Date: 4/12/2021 6:10:55 PM Author



1 DEMOLITION FLOOR PLAN - FOURTH FLOOR 1

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

GRAPHIC LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR AND FRAME TO BE REMOVED
- EXISTING WINDOW TO REMAIN
- EXISTING WINDOW TO BE REMOVED
- EXISTING LAY-IN CEILING TO REMAIN
- EXISTING LAY-IN CEILING TO BE REMOVED

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS DRAWING.

B. EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEYS. THE CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT THE SITE PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

C. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE AND APPROVED BY THE OWNER.

D.. ANY EQUIPMENT, MATERIALS, AND SUPPLIES TEMPORARILY REMOVED FOR THE PURPOSE OF PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS AND CONDITIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

E. REFER TO AND COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION NOT SHOWN ON THIS DRAWING.

F. ALL MATERIALS INDICATED TO BE REMOVED SHALL BE DISPOSED OF PROPERLY AND REMOVED FROM THE SITE.

G. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS CLASSIFIED AS "SALVAGE FOR OWNER" SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY THE OWNER AND NEATLY STORE AND PROTECT FROM DAMAGE.

H. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS CLASSIFIED "SALVAGE FOR RELOCATION" SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR PLACING ITEMS IN STORAGE ON SITE AND FOR THE PROTECTION OF THOSE ITEMS. THESE ITEMS WILL BE RELOCATED. REFER TO THE FLOOR PLANS FOR NEW LOCATIONS.

I. PATCH AND REPAIR ALL ELEMENTS THAT ARE TO REMAIN WHICH ARE DAMAGED FROM THE DEMOLITION WORK WITH CONSTRUCTION TO MATCH EXISTING CONDITIONS.

J. REFER TO ACM SPECIFICATIONS FOR AREAS AS NOTED.

SHEET KEYNOTES

A2-02	PATCH AND REPAIR NEW PARTITION AT DEMOLISHED AREA TO MATCH ADJACENT PARTITION.
AD103	DEMO COLUMN FURRING, PREP FOR NEW LAYOUT AND FURRED COLUMNS.
AD104	REMOVE WINDOW, PREP FOR NEW INFILL PARTITION.
AD109	DEMO EXTENTS OF EXISTING PARTITION AND FLOORING UNDER CARPET DURING PHASE 1A PER ACM ABATEMENT SPECIFICATIONS.
AD110	DEMO EXTENTS OF EXISTING INTERIOR DRYWALL DURING PHASE 1A PER ACM ABATEMENT SPECIFICATIONS. PREP FOR NEW TO MATCH EXISTING REQUIREMENTS.
AD111	DEMO EXTENTS OF EXISTING PARTITION AND FLOORING DURING PHASE 1B PER ACM ABATEMENT SPECIFICATIONS.
AD112	DEMO EXTENTS OF EXISTING INTERIOR DRYWALL DURING PHASE 1B PER ACM ABATEMENT SPECIFICATIONS. PREP FOR NEW TO MATCH EXISTING REQUIREMENTS.
AD117	COORDINATE WITH 1A NEW WORK EXTENTS. REMOVE ONLY DRYWALL FOR CURRENT PHASE PER ACM ABATEMENT SPECIFICATIONS. COORDINATE WITH EXTENTS OF 1B WORK COMPLETION.
AD118	COORDINATE WITH 1B NEW WORK EXTENTS. REMOVE ENTIRE WALL PER ACM ABATEMENT SPECIFICATIONS FOR 1B WORK COMPLETION.
AD122	PROVIDE ADD ALTERNATE FOR GYP. BOARD LAYER TO BE REMOVED AT CORRIDOR PARTITION PER ACM ABATEMENT SPECIFICATIONS.
AD124	COORDINATE AREA WITH NEW WORK EXTENTS.

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SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

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KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE

DEMOLITION FLOOR PLAN - FOURTH FLOOR

12808

PROJECT NUMBER

CD 1.AD.204

SHEET NUMBER

Author

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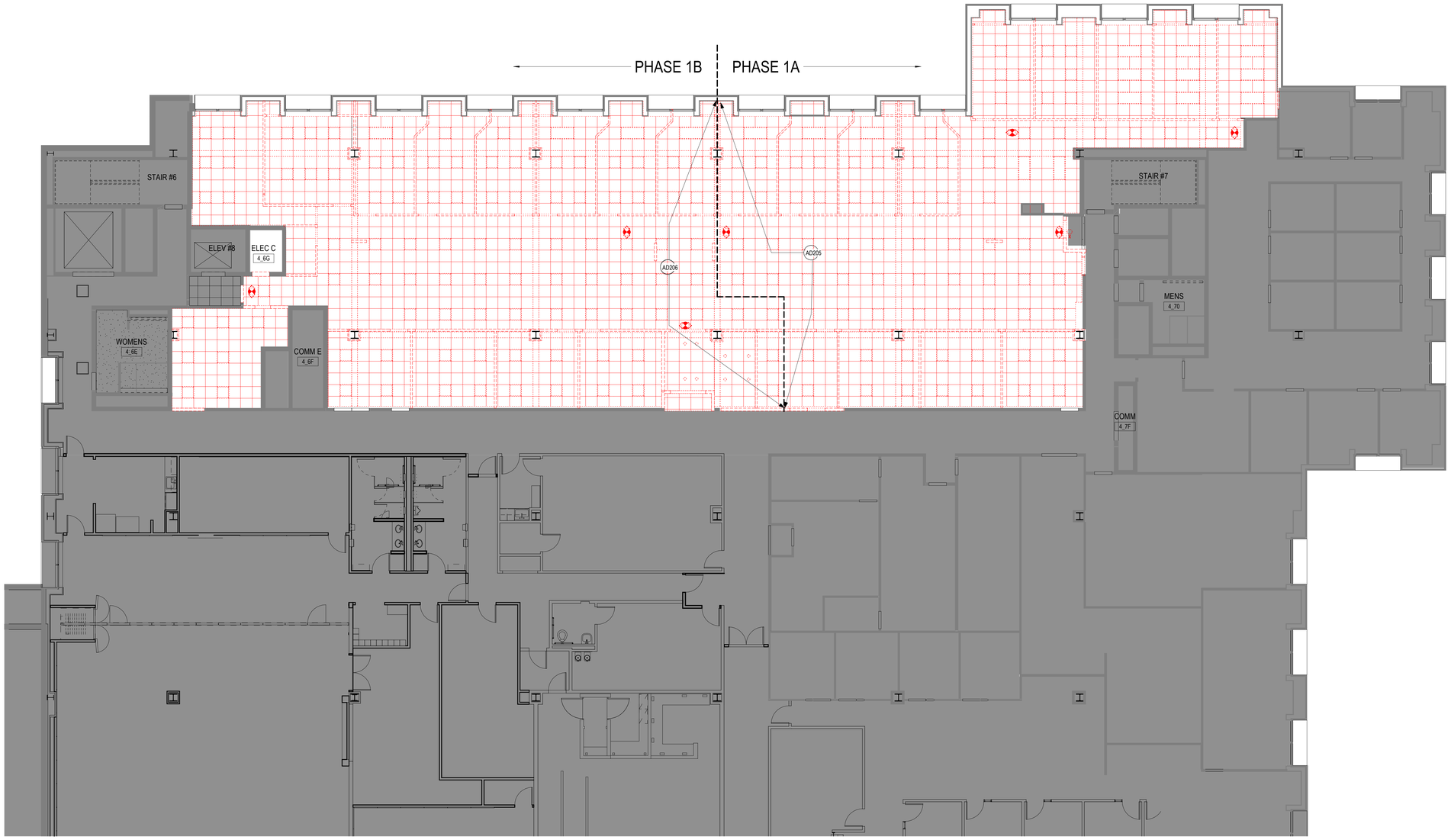

1 DEMOLITION REFLECTED CEILING PLAN - LEVEL 4 COMPLETION
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

- EXISTING PARTITION TO REMAIN
- EXISTING PARTITION TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR AND FRAME TO BE REMOVED
- EXISTING WINDOW TO REMAIN
- EXISTING WINDOW TO BE REMOVED
- EXISTING LAY-IN CEILING TO REMAIN
- EXISTING LAY-IN CEILING TO BE REMOVED

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS DRAWING.

B. EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEYS. THE CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT THE SITE PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

C. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE AND APPROVED BY THE OWNER.

D. ANY EQUIPMENT, MATERIALS, AND SUPPLIES TEMPORARILY REMOVED FOR THE PURPOSE OF PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS AND CONDITIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

E. REFER TO AND COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION NOT SHOWN ON THIS DRAWING.

F. ALL MATERIALS INDICATED TO BE REMOVED SHALL BE DISPOSED OF PROPERLY AND REMOVED FROM THE SITE.

G. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS CLASSIFIED AS "SALVAGE FOR OWNER" SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY THE OWNER AND NEATLY STORE AND PROTECT FROM DAMAGE.

H. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS CLASSIFIED "SALVAGE FOR RELOCATION" SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR PLACING ITEMS IN STORAGE ON SITE AND FOR THE PROTECTION OF THOSE ITEMS. THESE ITEMS WILL BE RELOCATED. REFER TO THE FLOOR PLANS FOR NEW LOCATIONS.

I. PATCH AND REPAIR ALL ELEMENTS THAT ARE TO REMAIN WHICH ARE DAMAGED FROM THE DEMOLITION WORK WITH CONSTRUCTION TO MATCH EXISTING CONDITIONS.

J. REFER TO ACM SPECIFICATIONS FOR AREAS AS NOTED.

SHEET KEYNOTES

AD205 DEMO EXTENTS OF EXISTING CEILING DURING PHASE 1A. COORDINATE WITH NEW PLAN LAYOUT AND PHASE 1B WORK.

AD206 DEMO EXTENTS OF EXISTING CEILING DURING PHASE 1B. COORDINATE WITH NEW PLAN LAYOUT AND PHASE 1A WORK.

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE
DEMOLITION REFLECTED CEILING PLAN - FOURTH FLOOR

12808
PROJECT NUMBER

CD 1.AD.304
SHEET NUMBER

Author

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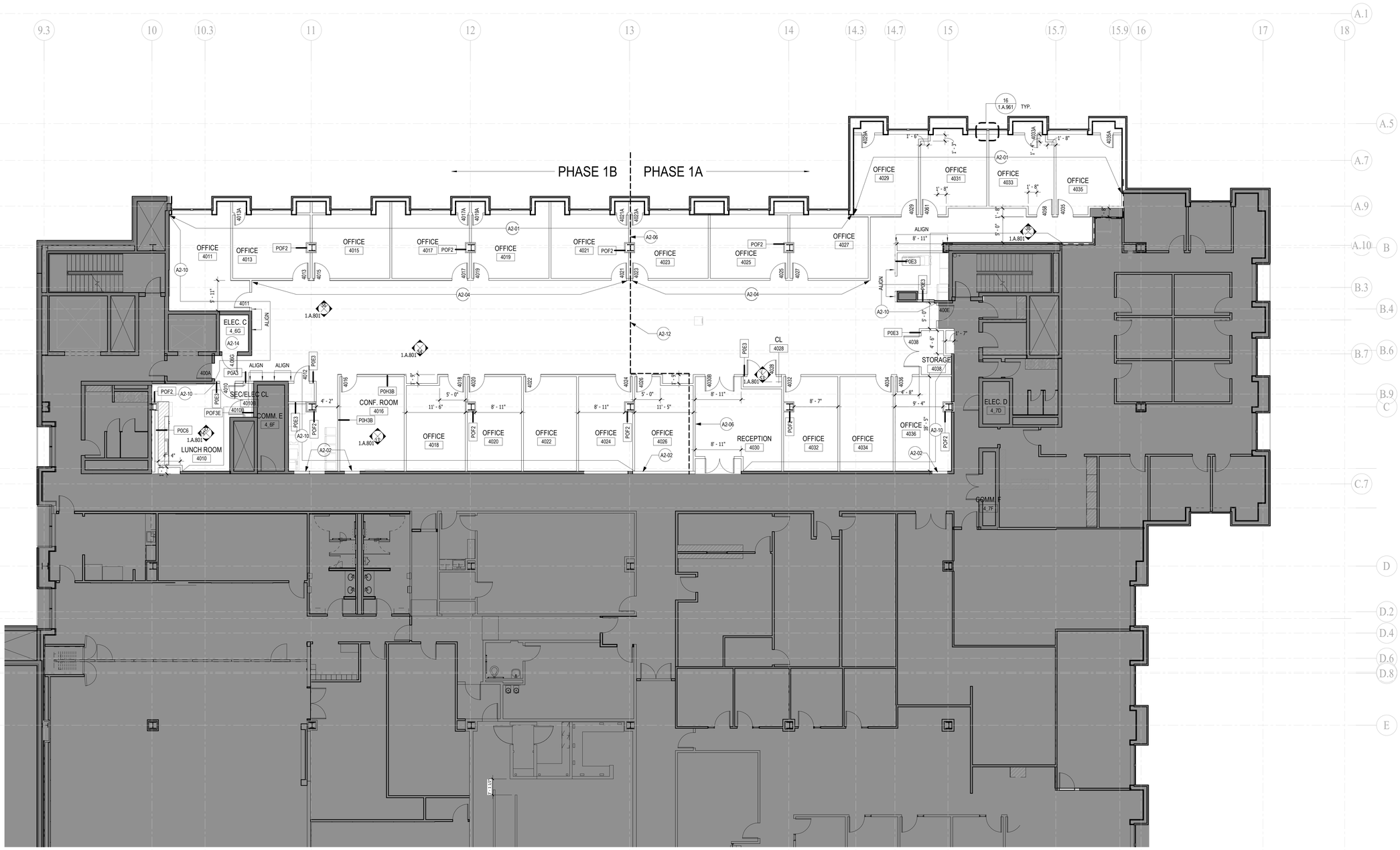

1 FLOOR PLAN - FOURTH FLOOR 1
SCALE: 1/8" = 1'-0"

GRAPHIC LEGEND

- NOT IN SCOPE
- EXISTING PARTITION
- NEW PARTITION
- NEW MILLWORK

GENERAL SHEET NOTES

A. REFER TO THE A0 SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

B. FOR BASIC LIFE SAFETY AND CODE INFORMATION APPLYING TO THIS PROJECT, REFER TO THE 0002 SERIES SHEETS LOCATED PER THE PROJECT SHEET INDEX.

C. REFER TO THE A2 SERIES SHEETS FOR THE REFLECTED CEILING PLANS.

D. REFER TO THE A9 SERIES SHEETS FOR PARTITION SYSTEMS TYPES AND DETAILS.

E. REFER TO THE A9 SERIES SHEETS FOR THE INTERIOR OPENING SCHEDULE(S), TYPES, AND DETAILS.

F. REFER TO THE A2 SERIES SHEETS FOR INTERIOR FINISH INFORMATION.

G. REFER TO THE A9 SERIES SHEETS FOR INTERIOR FURNISHING INFORMATION.

H. DO NOT SCALE THESE DRAWINGS. FIELD VERIFY ANY DIMENSIONS DEEMED, OR NOTED AS BEING, CRITICAL.

I. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT JOB SITE AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES, ADDITIONS, DELETIONS AND/OR ALTERATIONS IN ANY OR ALL CONDITIONS BEFORE PROCEEDING WITH ANY PHASE OF THE WORK.

J. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE.

K. FURNISH AND INSTALL FIRE RETARDANT TREATED WOOD BLOCKING AS REQUIRED AT ALL LOCATIONS FOR THE PROPER AND SECURE INSTALLATION OF ALL WALL MOUNTED EQUIPMENT OR MILLWORK WHETHER SPECIFICALLY NOTED IN THE DRAWINGS OR NOT.

L. PROVIDE DEMOLITION TO THE MINIMUM EXTENT REQUIRED FOR THE INSTALLATION OF FIRE ALARM, SPRINKLER, MEP AND TELECOMMUNICATIONS WORK. UNLESS NOTED OTHERWISE, EXISTING FINISHES AND EQUIPMENT IN THE DESIGNATED AREAS ARE TO REMAIN AND SHOULD BE DISTURBED ONLY TO THE MINIMUM EXTENT TO PERFORM THE WORK. REPAIR OR REPLACE FINISHES THAT ARE DAMAGED AS A RESULT OF WORK TO MATCH SURROUNDING CONDITIONS.

M. REFER TO THE TOILET & KITCHENETTE FIXTURE AND ACCESSORY LEGEND ON SHEET A0.2 FOR THE EXISTING UNINSTALLED ACCESSORIES INVENTORY ON SITE.

N. THOROUGHLY CLEAN ALL SURFACES WITHIN THE AREA OF WORK, INCLUDING FIXTURES, COUNTERS, SHOWERS, LOCKERS, ACCESSORIES, FLOOR AND WALL TILE. OBTAIN OWNER/ARCHITECT APPROVAL OF CLEANLINESS PRIOR TO SEALING ALL WALL TILE AND FLOOR TILE GROUT THROUGHOUT AREA OF WORK.

P. ALL PARTITIONS TO BE P0H3C, UON.

SHEET KEYNOTES

A2-01 COORDINATE AND EXTEND GYB BD PARTITION 4" ABOVE CEILING HEIGHT AT PERIMETER AS REQUIRED.

A2-02 PATCH AND REPAIR NEW PARTITION AT DEMOLISHED AREA TO MATCH ADJACENT PARTITION.

A2-04 TRANSOM WINDOWS, REFERENCE J1/A9300 AT TOP OF OFFICES, REFERENCE ELEVATIONS 1-2/A8001.

A2-06 EXTENTS OF PHASE 1A WORK TO BE COORDINATED WITH 1B EXISTING CONDITIONS.

A2-07 EXTENTS OF PHASE 1B WORK TO BE COORDINATED WITH 1A WORK.

A2-10 PROVIDE 2 LAYERS OF NEW DRYWALL TO MATCH EXISTING PARTITION REQUIREMENTS.

A2-12 GC TO PROVIDE TEMPORARY FINISHED PARTITION PRIOR TO CONSTRUCTION AND TO BE REMOVED AT COMPLETION OF ALL PHASES OF WORK AS REQUIRED. COORDINATE WITH PARTITION LAYOUT WITH EXTENTS OF WORK. PROVIDE OPENING FOR SUITE ACCESS AS REQUIRED.

A2-14 COORDINATE WITH IT, ELEC DRAWINGS AND SPECS FOR FIRE RATED PLYWOOD REQUIREMENTS.

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ISSUED FOR	REV	DATE
PERMIT DOCUMENTS		04/12/2021
95% CONSTRUCTION DOCUMENTS		04/12/2021
DESIGN DEVELOPMENT		03/09/2021
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE
FLOOR PLAN - FOURTH FLOOR

PROJECT NUMBER
12808

CD

SHEET NUMBER
1.A.204

Author

Plot Date: 4/12/2021 6:11:00 PM

1 REFLECTED CEILING PLAN FOURTH FLOOR 1
SCALE: 1/8" = 1'-0"

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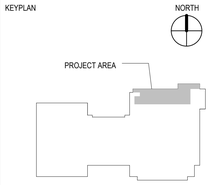
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN



GRAPHIC LEGEND

ARCHITECTURAL

- 2'X2' LAY IN ACOUSTIC TILE CEILING. ACT-1
- GYPSUM BOARD
- ACCESS PANEL

MECHANICAL

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CLG MOUNT
- SPRINKLER HEAD - WALL MOUNT

ELECTRICAL

- 2'X2' LIGHTING FIXTURE
- 1'X4' LIGHTING FIXTURE
- LIGHTING STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- F FIRE ALARM
- S SPEAKER
- P SMOKE DETECTOR
- W WIRELESS INTERNET

MISCELLANEOUS

- +8'-6" HEIGHT OF CEILING FINISH ABOVE FINISH FLOOR

GENERAL SHEET NOTES

A. THE A-SERIES DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND LOCATION OF ALL EXPOSED ELEMENTS. THE A-SERIES DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND LOCATION OF ALL PARTS OF THE WORK. EXCEPTION: DIMENSIONED LOCATIONS SHOWN ON ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE: 1. SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEYED NOTE, OR NOTATION ON THE ARCHITECTURAL DRAWINGS. 2. OCCURRING WITHIN A ROOM OR OTHER IDENTIFIABLE SPACE FOR WHICH ARCH SHEET OR SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.

B. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE THE TYPICAL RULES WHICH GOVERN THE LOCATION, CONFIGURATION IN RELATIONSHIP TO OTHER ELEMENTS OF THE WORK, AND FINISHED ALIGNMENT OF ALL ITEMS OCCURRING ON REFLECTED CEILING PLANS OF THE PROJECT.

C. CTHE A-SERIES FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, AND DETAILS ILLUSTRATE THE DIMENSIONED LOCATION OF MANY - BUT NOT ALL - EXPOSED PARTS OF THE WORK. APPLY THE RULES ON THIS SHEET - IN ORDER - TO DETERMINE THE LOCATION OF EXPOSED PART OF THE WORK.

1. WHEN UNIQUELY AND SPECIFICALLY DIMENSIONED ON THE A-SERIES PLANS, SECTIONS, OR ELEVATIONS (OR COMBINATION THEREOF), LOCATE AS DIMENSIONED.
2. IF NOT SHOWN, OR IF SHOWN BUT NOT DIMENSIONED, BY THE A-SERIES PLANS OR ELEVATIONS, LOCATE AS INDICATED BY THE APPLICABLE RULE.

D. REFER TO THE "ARCHITECTURAL GENERAL NOTES" FOR ADDITIONAL NOTES WHICH MAY BE APPLICABLE TO THE WORK SHOWN ON THIS SHEET.

F. REFER TO THE "PROJECT GENERAL NOTES" FOR ADDITIONAL NOTES WHICH APPLY TO THE ENTIRE PROJECT.

SHEET KEYNOTES

A3-07 (24) FULL ACT CENTERED IN ROOM.
A3-08 COORDINATE CEILING WITH ADJACENT PHASE WORK.

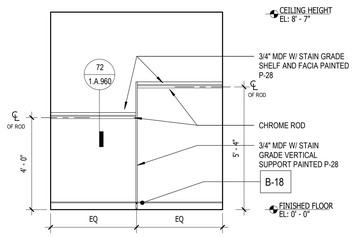
SHEET TITLE
REFLECTED CEILING PLAN - FOURTH FLOOR

12808
PROJECT NUMBER

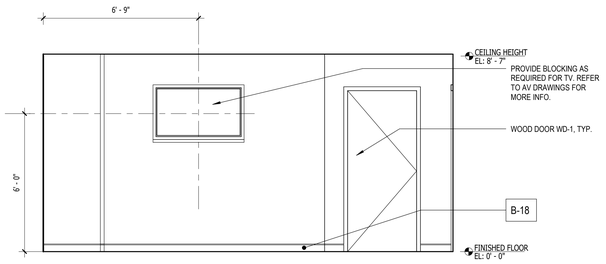
CD
SHEET NUMBER
1.A.304

Author

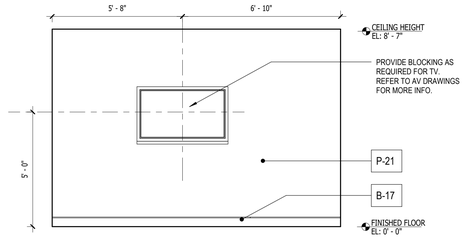
Plot Date: 4/12/2021 6:11:02 PM



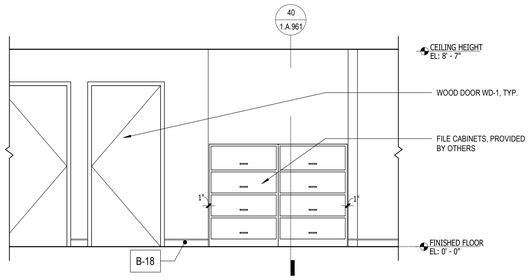
53 CLOSET
SCALE: 3/8" = 1'-0"



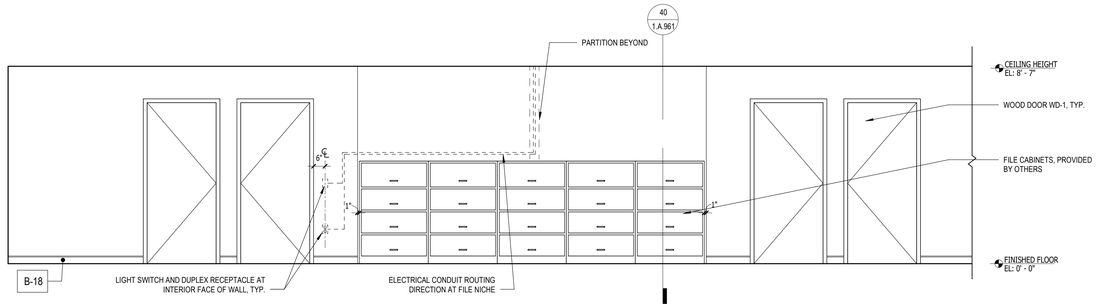
37 LUNCH ROOM AT TV
SCALE: 3/8" = 1'-0"



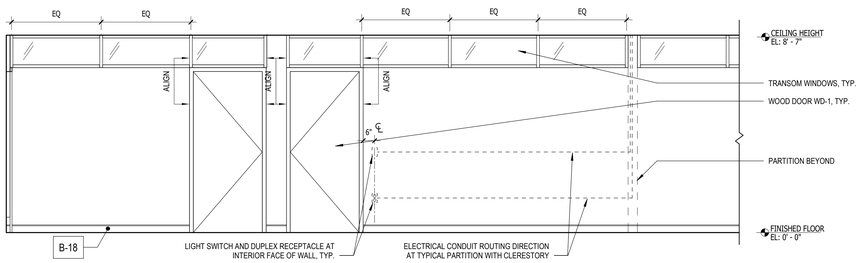
13 CONFERENCE RM
SCALE: 3/8" = 1'-0"



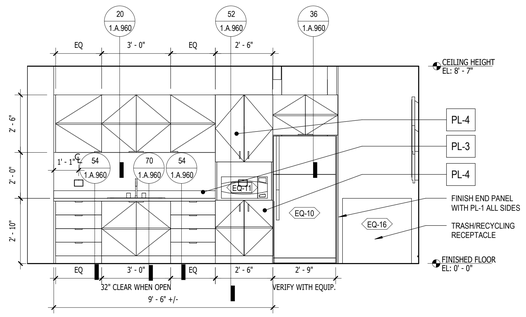
54 ELEVATION - TYP. FILE CABINET NICHE
SCALE: 3/8" = 1'-0"



38 ELEVATION - FILE CABINET NICHE AT CLERESTORY WINDOWS
SCALE: 3/8" = 1'-0"



56 ELEVATION - TYP. OFFICE FRONT WITH TRANSOM AND CLERESTORY WINDOWS
SCALE: 3/8" = 1'-0"



24 WEST ELEVATION - LUNCH ROOM 4010
SCALE: 3/8" = 1'-0"

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
INTERIOR ELEVATIONS

PROJECT NUMBER
12808

CD 1.A.801
SHEET NUMBER

Author

Plot Date: 4/12/2021 6:11:04 PM

DATA FINISH AND MATERIAL SCHEDULE

TAG	TYPE	LOCATION	SPEC	MANUFACTURER/SUPPLIER	SERIES/NAME	COLOR	SIZE	INSTALLATION	NOTES	LOCATION
CARPET TILE										
C-1	CARPET TILE	FLOOR		MOHAWK	ENTHRALLED II	GT314 ALLURED	24" X 24"	VERTICAL ASHLAR		
C-16	CARPET TILE	FLOOR		TARKETT	PLEXUS COLOR IV, 02875	DARK SHADOW #18552	24" X 24" 24 OZ	MODULAR CARPET TILE WITH ER3 MODULAR BACKING, MONOLITHIC		CONFERENCE RM
C-17	CARPET TILE	FLOOR		TARKETT	PLEXUS COLOR IV, 02875	LUNAR VALLEY #18564	24" X 24" 24 OZ	MODULAR CARPET TILE WITH ER3 MODULAR BACKING, MONOLITHIC		CONFERENCE RM
CEILING TILE										
ACT-1	CEILING TILE	CEILING		ARMSTRONG	SILHOUETTE XL 1/4" REVEAL	WHITE: WITH #7873 SHADOW MOLDING	24" 24" X 3/4"	BEVELED REGULAR WITH 9/16" SILHOUETTE XL BOLT SLOT GRID - 1/8" REVEAL TYPICAL		OFFICE, OPEN OFFICE, CONFERENCE, COPY, LUNCH ROOM
CERAMIC TILE										
CT-8	CERAMIC TILE	BASE		CROSSVILLE, INC.	CROSS COLORS	A850 GRAPHITE	6" X 8" X 5/16"	POLISHED, GROUT LATICRETE SPECTRALOCK PRO #88 SILVER SHADOW	COVE BASE; CORNER LEFT, RIGHT, INSIDE, AND OUTSIDE PIECES TO BE USED WHERE APPLICABLE	
CHAIR RAIL										
CH-2	CHAIR RAIL	WALL		JOHNSONITE	MILLWORK STYLE CHAIRRAIL CHR-48-C	GREY	4" HIGH RUBBER, .375" THICK	SEE ELEVATION FOR LOCATIONS AND HEIGHTS		CONFERENCE RM 4001
PAINT										
P-1	PAINT	WALL CONFERENCE ROOM		SHERWIN WILLIAMS		PEARLY WHITE #SW7009		STANDARD PAINT COLOR UNO. ULTRA DELUXE INTERIOR OR ACRYLIC LATEX LOW SHEEN ENAMEL ON GYP. BD. ALKYD LOW SHEEN ENAMEL ON WOODS AND METALS, LOW SHEEN EPOXY ON MASONRY SURFACES.	EGGSHELL	TYPICAL PAINT
P-2	PAINT	DOOR FRAME		BENJAMIN MOORE		ROCKPORT GRAY HC-105		DOOR FRAME PAINT	SEMI-GLOSS #539	TYPICAL DOOR FRAME
P-3	PAINT	CEILING		SHERWIN WILLIAMS		EXTRA WHITE #SW7006		CEILING PAINT. FLAT, MATTE OR LOW SHEEN FINISH, DEPENDENT ON INSTALLATION LOCATION.	FLAT	BULKHEAD
P-21	PAINT	ACCENT WALL CONFERENCE ROOM		BENJAMIN MOORE		REVERE PEWTER #HC-172		ULTRA DELUXE INTERIOR OR ACRYLIC LATEX LOW SHEEN ENAMEL ON GYP. BD. ALKYD LOW SHEEN ENAMEL ON WOODS AND METALS, LOW SHEEN EPOXY ON MASONRY SURFACES.		CONFERENCE RM ACCENT PAINT
P-25	PAINT	WALL PANTRY AND SUPPORT		SHERWIN WILLIAMS	PRE-CATALYZED WATER BASED EPOXY PAINT	PEARLY WHITE #SW7009			EGGSHELL	CLOSET, STORAGE
P-27	PAINT	ACCENT WALL PANTRY		SHERWIN WILLIAMS	PRE-CATALYZED WATER BASED EPOXY PAINT	ALEUTIAN #SW 6241			EGGSHELL	
P-28	PAINT	WALL OFFICE		SHERWIN WILLIAMS		RESERVED WHITE #SW 7056			EGGSHELL	
P-29	PAINT	ACCENT WALL OFFICE		SHERWIN WILLIAMS		CONTENTED #SW 6191			EGGSHELL	
PLASTIC LAMINATE										
PL-3	PLASTIC LAMINATE	MILLWORK		NEVAMAR		ALUMINITE, #AM6001T TEXTURED				
PL-4	PLASTIC LAMINATE	MILLWORK		NEVAMAR		STUDIO GRAY #S6037T				
RESILIENT FLOORING										
VCT-1	RESILIENT FLOORING	FLOOR		ROPPE	SAFETCORK	W154 WHITE SALEM BLUE	24" X 24"	HEAT WELD ROD #161 SNOW		COPY RM, STORAGE
VF-5	RESILIENT FLOORING	FLOOR		FORBO	MARMOLEUM REAL	3053 DOVE BLUE			PER MANUFACTURER'S RECOMMENDED INSTRUCTIONS. TO BE SEAMED WITH A MULTI COLORED COORDINATING HEAT ROD. WELD TO PROVIDE A WATERTIGHT AND HYGIENIC SEAM. THE MATERIAL SHOULD BE GROOVED TO A 3.5 MM WIDE U-SHAPE AT THE SEAM. THE DEPTH OF THE GROOVE SHOULD BE DOWN THE JUTE FIBERS BUT NOT THROUGH THEM.	
RUBBER BASE										
B-17	RUBBER BASE	BASE		ROPPE	TS PINNACLE RUBBER	#100 BLACK	4"		STRAIGHT AT CARPET, COVE AT HARD SURFACES	
B-18	RUBBER BASE	BASE		ROPPE	TS PINNACLE RUBBER	#123 CHARCOAL	4"		STRAIGHT AT CARPET, COVE AT HARD SURFACES	
SOLID SURFACE										
SS-1	SOLID SURFACE	MILLWORK		DUPONT		PLATINUM				RESTROOM
TERRAZZO										
T-2	TERRAZZO	FLOOR		TERRAZZO & MARBLE SUPPLY COMPANY	TERROXY RESIN SYSTEMS	#20-1973		LIGHT TERRAZZO FIELD WITH ZINC BORDER		CORRIDOR
T-4	TERRAZZO	FLOOR AND BASE		TERRAZZO & MARBLE SUPPLY COMPANY	TERROXY RESIN SYSTEMS	#13-532		DARK TERRAZZO ACCENT AND BASE WITH ZINC BORDER		CORRIDOR
TRANSITION STRIP										
MS-1	TRANSITION STRIP	FLOOR		STONE SOURCE	STONE SOURCE	OLIVIA GREY POLISHED MARBLE		TRANSITION STRIP AT RESTROOM		
TS-1	TRANSITION STRIP	FLOOR		JOHNSONITE	SLT-20	CHARCOAL				
WINDOW TREATMENT										
WT-1	WINDOW TREATMENT	WINDOWS		MATCH BUILDING STANDARD BLINDS						
WT-2	WINDOW TREATMENT	WINDOWS		MAHARAM	NIVAL 04	FRESHWATER				OFFICE, CONFERENCE RM
WOOD										
WD-1	WOOD	DOORS		MASONITE ARCHITECTURAL (FORMALLY MARSHFIELD)	COMPOSITE LUMBER WOOD DOOR. PLAIN-SLICED OAK	STAINED TO MATCH MEDIUM CHERRY VC-U				

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SEALS AND SIGNATURES

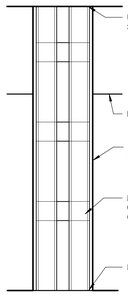
NOT FOR CONSTRUCTION

SHEET TITLE
FINISH SCHEDULE

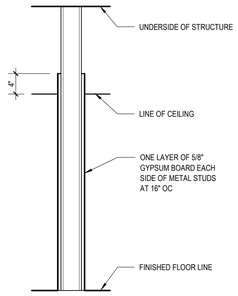
PROJECT NUMBER
12808

SHEET NUMBER
CD 1.A.910

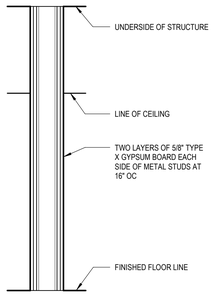
Plot Date: 4/12/2021 6:11:04 PM Author



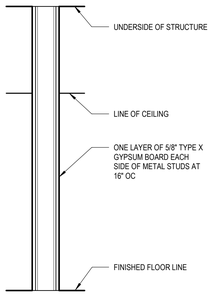
P0C CHASE ASSEMBLY
NON-COMBUSTIBLE
SCALE: NTS



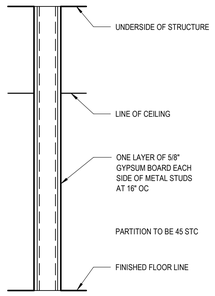
P0B TWO SIDED ASSEMBLY
NON-COMBUSTIBLE
SCALE: NTS



P2A TWO SIDED ASSEMBLY
2 HOUR RATED (UL - U411 OR U419)
SCALE: NTS



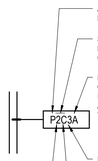
P1A TWO SIDED ASSEMBLY
1 HOUR RATED (UL - U419 OR U465)
SCALE: NTS



P0A TWO SIDED ASSEMBLY
NON-COMBUSTIBLE
SCALE: NTS

PARTITION TYPE SYMBOL

SYMBOL DEFINITION



ASSEMBLY TYPE DESIGNATION
P = INTERIOR PARTITION

SECOND & THIRD DIGITS INDICATE BASIC PARTITION TYPE AS DEFINED ON THIS SHEET

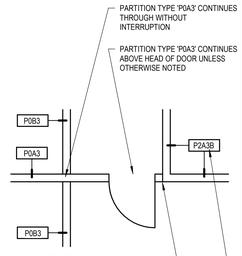
FINAL DIGIT INDICATES ADDITIONAL COMPONENTS GROUP IF REQUIRED. IF REQUIRED THEN REFER TO ADDITIONAL COMPONENTS MATRIX THIS SHEET

FRAMING UNIT SIZE CATEGORY
1 = 1 5/8" STUDS
2 = 2 1/2" STUDS
3 = 3 5/8" STUDS
4 = 4" STUDS / 4" (NOM) CMU
6 = 6" STUDS / 6" (NOM) CMU
8 = 8" STUDS / 8" (NOM) CMU
12 = 12" (NOM) CMU
H = HAT CHANNELS

BASIC PARTITION ASSEMBLY CATEGORY

FIRE RATING OF PARTITION IN HOURS. RATING MAY EXCEED RATING REQUIRED BY CODE

USAGE ON FLOOR PLANS

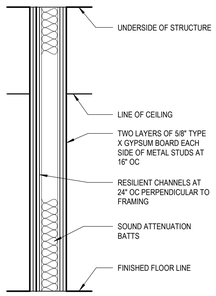


PARTITION TYPE 'P0A3' CONTINUES THROUGH WITHOUT INTERRUPTION

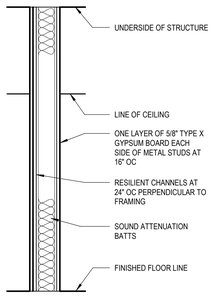
PARTITION TYPE 'P0A3' CONTINUES ABOVE HEAD OF DOOR UNLESS OTHERWISE NOTED

LINE INDICATES BREAK BETWEEN PARTITION TYPES 'P0A3' AND 'P2A3'

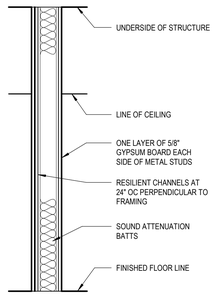
LOCATION OF ADDITIONAL COMPONENT WITHIN THE PARTITION ASSEMBLY SHALL BE TO THE SAME SIDE AS THE PARTITION TYPE SYMBOL IS DESIGNATED FROM



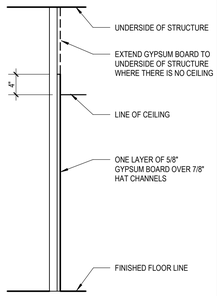
P2H ACOUSTICAL ASSEMBLY
2 HOUR RATED (UL- U454)
SCALE: NTS



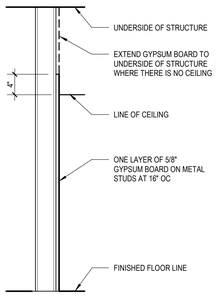
P1H ACOUSTICAL ASSEMBLY
1 HOUR RATED (UL- U451)
SCALE: NTS



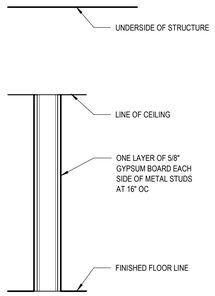
P0H ACOUSTICAL ASSEMBLY
NON-COMBUSTIBLE
SCALE: NTS



P0FH ONE SIDED ASSEMBLY
NON-COMBUSTIBLE
SCALE: NTS



P0F ONE SIDED ASSEMBLY
NON-COMBUSTIBLE
SCALE: NTS



P0E TWO SIDED ASSEMBLY
NON-COMBUSTIBLE
SCALE: NTS

PARTITION NOTES

A. PARTITIONS AND FURRING ARE DIMENSIONED TO THE FACE OF PARTITION ASSEMBLY (NOT TO THE FACE OF APPLIED FINISH OR FACE OF STUD), UNLESS OTHERWISE NOTED

B. PARTITION TYPE INDICATIONS ARE INDEPENDENT OF APPLIED FINISHES. SEE FINISH SCHEDULE AND/OR THE DESIGNATIONS ON THE PLANS FOR ADDITIONAL INFORMATION REGARDING APPLIED FINISHES

C. WHERE PARTITION TYPE DESIGNATION ON FLOOR PLANS IS INTERRUPTED BY DOOR OPENING, GLAZED PARTITION, ETC., CONSTRUCTION ABOVE INTERRUPTION (AND WHERE APPLICABLE BELOW) IS TO BE THE SAME AS THAT DESIGNATED FOR THE PARTITION IN WHICH THE INTERRUPTION OCCURRED.

D. THE MINIMUM REQUIREMENTS FOR CONSTRUCTION OF EACH PARTITION TYPE AS EXPRESSED BY THE INDICATED FIRE RATING REFERENCE ARE INCORPORATED BY REFERENCE AND ARE APPLICABLE TO THE WORK OF THIS PROJECT. HOWEVER, ADDITIONAL AND/OR MORE RESTRICTIVE REQUIREMENTS MAY BE INDICATED BY THE SPECIFICATIONS AND DRAWINGS. SUCH REQUIREMENTS ALSO APPLY AND SHALL GOVERN. SUCH REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO:

1. USE 5/8 THICK GYPSUM BOARD THROUGHOUT
2. USE 16 OC MAX STUD SPACING UNLESS OTHERWISE NOTED. THE SPACING STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MAX SPACING
3. USE STUDS OF GAUGE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS. THE GAUGE STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM GAUGE
4. USE STUDS OF DEPTH INDICATED BY THE DRAWINGS. THE DEPTH STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM DEPTH

ACOUSTIC PARTITION ASSEMBLY STC GUIDELINES:

UNITED STATES GYPSUM (USG) https://tinyurl.com/yae89527
NATIONAL GYPSUM CO. (NGC) https://tinyurl.com/y6dfp7yf

P0H2	-	NO STC RATINGS LISTED
P0H3	-	NO STC RATINGS LISTED
P0H6	-	NO STC RATINGS LISTED
P0H8	-	NO STC RATINGS LISTED
P1H2	-	NO STC RATINGS LISTED
P1H3	STC-49	25 GAUGE STUDS @ 24" OC / 3 1/2" GLASS FIBER
P1H3	STC-49	20 GAUGE STUDS @ 16" OC / 3 1/2" GLASS FIBER
P1H6	STC-53	25 GAUGE STUDS @ 24" OC / 6" GLASS FIBER
P1H6	STC-53	20 GAUGE STUDS @ 16" OC / 6" GLASS FIBER
P1H3	STC-54	25 GAUGE STUDS @ 24" OC / 3" SAFB
P1H6	STC-56	20 GAUGE STUDS @ 24" OC / 5" SAFB
P1H8	-	NO STC RATINGS LISTED
P2H2	STC-57	25 GAUGE STUDS @ 24" OC / 1" SAFB
P2H3	-	NO STC RATINGS LISTED
P2H6	STC-62	20 GAUGE STUDS @ 24" OC / 5" MINERAL WOOL
P2H8	-	NO STC RATINGS LISTED
P0H3C	STC-50	25 GUAGE STUDS @ 24" OC/ 6" GLASS FIBER

FRAMING NOTES

A. ALL INTERIOR NON-LOAD-BEARING METAL WALL FRAMING EXCEEDING 6 FEET IN HEIGHT SHALL RESIST A HORIZONTAL LOAD OF NOT LESS THAN 5 PSF, UNLESS OTHERWISE NOTED OR REQUIRED BY THE SPECIFICATIONS.

B. GAUGE THICKNESS DESIGNATION IS BASED ON THE FOLLOWING MIL THICKNESS FOR INTERIOR NON-LOAD BEARING PARTITION FRAMING, ALL 33 ksi, PER THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA):

18 MIL = 25 GAUGE
30 MIL = 20 GAUGE
43 MIL = 18 GAUGE
54 MIL = 16 GAUGE

C. ALL INTERIOR NON-LOAD-BEARING METAL WALL FRAMING SHALL BE 25 GAUGE INSTALLED AT 16 O.C. UNLESS OTHERWISE NOTED.

D. ALL INTERIOR NON-LOAD-BEARING METAL WALL FRAMING SHALL BE INSTALLED WITH A DEFLECTION CRITERIA OF L/240 , UNLESS OTHERWISE NOTED OR REQUIRED BY THE SPECIFICATIONS.

E. WHERE AN ADDITIONAL INTERIOR WALL FINISH IS APPLIED TO THE BASE PARTITION SUCH AS TILE, VENEERS, WOOD PANELING, OR SIMILAR: ALL INTERIOR NON-LOAD-BEARING METAL WALL FRAMING SHALL BE INSTALLED WITH A DEFLECTION CRITERIA OF L/360, UNLESS OTHERWISE NOTED OR REQUIRED BY THE SPECIFICATIONS.

F. LIMITING HEIGHTS OF INTERIOR NON-LOAD-BEARING FRAMING SHALL BE PER THE MANUFACTURERS SPAN TABLES BASED ON THE FOLLOWING CRITERIA OUTLINED IN THIS SET OF DRAWINGS AND THE PROJECT MANUAL: HORIZONTAL LOADING, STUD DEPTH, STUD SPACING, AND DEFLECTION CRITERIA.

G. PROVIDE 20 GAUGE (OR GREATER AS REQUIRED) METAL WALL FRAMING AT THE FOLLOWING LOCATIONS:

1. DOUBLE STUD JAMB ASSEMBLIES AT OPENINGS
2. FIRST STUD IN THE PARTITION BEYOND THE DOUBLE STUD JAMB ASSEMBLY. LOCATE STUD 6 FROM DOUBLE STUD ASSEMBLY
3. STUDS TO WHICH GLASS-MAT BACKER WATER-RESISTANT BACKER BOARD, SPECIFIED IN SECTION 09300, ARE INSTALLED FOR WET AREAS
4. STUDS TO WHICH ABUSE-RESISTANT AND HIGH-IMPACT GYPSUM WALL PANELS ARE ATTACHED
5. STUDS TO WHICH WALL MOUNTED EQUIPMENT, INCLUDING OWNER FURNISHED EQUIPMENT, IS FASTENED
6. STUD INFILL AND SILL TRACK BELOW WINDOW OPENINGS
7. STUDS INSTALLED FOR OPENING HEADS BETWEEN DOUBLE STUD JAMB ASSEMBLIES

ADDITIONAL PARTITION COMPONENTS MATRIX

NOTE: NOT ALL ADDITIONAL COMPONENTS MAY APPLY TO THIS PROJECT

ADDITIONAL COMPONENTS GROUP →	-	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	NOTES
NO. ADDITIONAL COMPONENTS																										
NO 1: ADD SMOKE SEAL																										SEE NOTE 1
NO 2: ADD ACOUSTIC SEALANT		●	●	●	●	●																				SEE NOTE 2
NO 3: ADD SOUND ATTENUATION BATTS - TYPE I		●			●	●																				SEE NOTE 3
SOUND TRANSMISSION CLASS																										
NO 4: ADD ACOUSTIC BOARD INSULATION - BATTS			●																							SEE NOTE 4
STC 45 / NIC 40																										
NO 5: ADD OUTLET BOX ACOUSTIC PADS		●	●	●	●	●																				SEE NOTE 5
NO 6: ADD ACOUSTIC BOARD INSULATION - BATTS				●																						SEE NOTE 6
STC 50																										
NO 7: ADD THERMAL INSULATION - TYPE I																										
NO 8: ADD ONE LAYER OF PLYWOOD INSIDE ROOM						●																				SEE NOTE 7
NO 9: ADD MOISTURE RESISTANT GYPSUM BOARD					●																					SEE NOTE 8
NO 10: ADD ADDITIONAL LAYER OF GYP BD ONE SIDE				●																						

1. SEAL PERIMETER OF PARTITION WITH CONT BEAD OF TYPE 1 FIRESTOPPING SEALANT. CLOSE ALL GAPS THROUGH OR AROUND PARTITION BY SEALING ALL JOINTS, GAPS AROUND OUTLET BOXES AND PENETRATIONS, INCLUDING THOSE ABOVE FINISH CEILINGS

2. SEAL PERIMETER OF PARTITION WITH CONT BEAD OF ACOUSTICAL SEALANT. CLOSE ALL GAPS THROUGH OR AROUND PARTITION BY SEALING ALL JOINTS, GAPS AROUND OUTLET BOXES AND PENETRATIONS, INCLUDING THOSE ABOVE FINISH CEILINGS. ISOLATE PARTITION FROM ALL PIPE AND DUCT PENETRATIONS BY STOPPING GYPSUM BOARD 1/2" MIN TO 1" MAX FROM PIPE OR DUCT. SEAL GAP BETWEEN GYPSUM BOARD AND PIPES/DUCTS WITH BACKER ROD AND ACOUSTICAL SEALANT

3. SOUND ATTENUATION BATTS (NON-FACED, FRICTION FIT) IN STUD CAVITY. PROVIDE 2 1/2" THICK INSULATION WHERE STUD DEPTH IS 2 1/2'; PROVIDE 3 1/2" THICK INSULATION WHERE STUD DEPTH IS 3 5/8" OR GREATER. WHERE STUD DEPTH IS LESS THEN 2 1/2" DEEP, PROVIDE ADDITIONAL COMPONENT NO 4 INSTEAD

4. PARTITION ASSEMBLY TO MEET STC 45/NIC 40 MINIMUM. SOUND ATTENUATION BATTS NON-FACED FRICTION FRIT IN STUD CAVITITY. PROVIDE 2 1/2 THICK INSULATION WHERE STUD DEPTH IS 2 1/2'. PROVIDE 3 1/2" WHERE STUD IS 3 5/8" OR GREATER.

5. PROVIDE ACOUSTICAL OUTLET PADS AT ALL ELECTRICAL, TELEPHONE AND DATA OUTLETS AS WELL AS ALL SWITCH BOXES. MOLD PAD CAREFULLY AROUND BOX AFTER BOX IS SECURLY ATTACHED TO STUD BEFORE GYPSUM IS INSTALLED. SEAL ALL OPENINGS WITH OUTLET BOX SEALANT MATERIAL.

6. PARTITION ASSEMBLY TO MEET STC 50 MINIMUM. SOUND ATTENUATION BATTS NON-FACED FRICTION FRIT IN STUD CAVITITY. PROVIDE 2 1/2 THICK INSULATION WHERE STUD DEPTH IS 2 1/2'. PROVIDE 3 1/2" WHERE STUD IS 3 5/8" OR GREATER.

7. PROVIDE ONE LAYER OF FLAME RETARDANT PLYWOOD INSIDE OF ASSOCIATED ELECTRICAL/IT TELECOM ROOM.

8 PROVIDE MOISTURE RESISTANT GYPSUM BOARD ON BOTH SIDES OF STUDS IN LIEU OF INTERIOR GYPSUM BOARD.

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ISSUED FOR	REV	DATE
PERMIT DOCUMENTS		04/12/2021
95% CONSTRUCTION DOCUMENTS		04/12/2021
DESIGN DEVELOPMENT		03/09/2021
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
PARTITION SYSTEMS

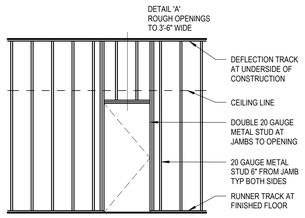
PROJECT NUMBER
12808

SHEET NUMBER
CD 1.A.920

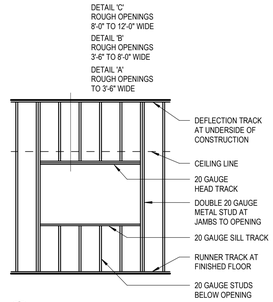
Plot Date: 4/12/2021 6:11:05 PM Author

TYPICAL WALL FRAMING ELEVATIONS

SCALE: 1/4" = 1'-0"
TYPICAL AT ALL METAL STUD FRAMING UNLESS OTHERWISE NOTED

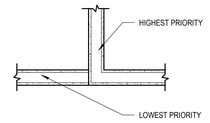


A TYPICAL FRAMING ELEVATIONS



B GLAZED OPENINGS / PASS-THROUGHS

WALL FRAMING PRIORITY LEGEND

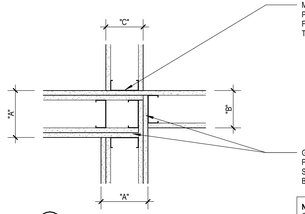


TYPE	PRIORITY	RATING
FIRE WALL	PRIORITY 1 (HIGHEST)	4 HOUR
FIRE & SMOKE BARRIER	PRIORITY 2	3 HOUR
FIRE BARRIER	PRIORITY 3	2 HOUR
FIRE PARTITION	PRIORITY 4	1 HOUR
SMOKE PARTITION	PRIORITY 5	1/2 HOUR
NON-RATED WALL	PRIORITY 6 (LOWEST)	NON-RATED

INTERSECTION FRAMING AND PRIORITY OF PARTITIONS

THE "PRIORITY" OF PARTITIONS OF DIFFERENT TYPES IS DETERMINED AS FOLLOWS:

1. FIRE-RATED PARTITIONS HAVE PRIORITY OVER NON-RATED PARTITIONS
2. PARTITIONS WITH GREATER FIRE-RATINGS HAVE PRIORITY OVER PARTITIONS WITH LESSER FIRE-RATINGS. EXAMPLE: TWO-HOUR RATED PARTITIONS HAVE PRIORITY OVER ONE-HOUR FIRE-RATED PARTITIONS.
3. SMOKE-SEALED PARTITIONS HAVE PRIORITY OVER NON-SMOKE SEALED PARTITIONS OF SIMILAR FIRE-RATING. REFER TO --- FOR ADDITIONAL COMPONENTS MATRIX ON SHEET FOR REQUIREMENTS

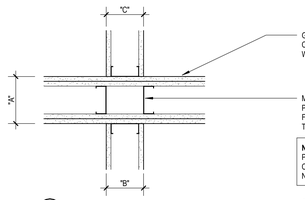


D FOUR-WAY INTERSECTION

METAL STUD OF TYPE AS INDICATED BY PARTITION TYPE. REFER TO FLOOR PLANS FOR DESIGNATION. ATTACH GYPSUM BOARD TO EACH STUD TYPICAL

GYPSUM BOARD AT INSIDE CORNER OF PRIORITY PARTITION SLIPS BETWEEN STUDS. SPACE STUDS TO ALLOW APPLICABLE GYPSUM BOARD THICKNESS TO PASS.

NOTE: PARTITION TYPE "A" HAS PRIORITY OVER PARTITION TYPES "B" AND "C" CHANGES DIRECTION. SEE NOTES TO THE RIGHT

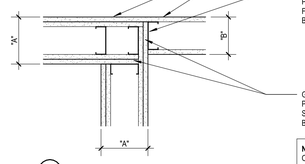


C FOUR-WAY INTERSECTION

GYPSUM BOARD OF PRIORITY PARTITION CONTINUES THROUGH INTERSECTION WITHOUT INTERRUPTION

METAL STUD OF TYPE AS INDICATED BY PARTITION TYPE. REFER TO FLOOR PLANS FOR DESIGNATION. ATTACH GYPSUM BOARD TO EACH STUD TYPICAL

NOTE: PARTITION TYPE "A" HAS PRIORITY OF PARTITION TYPES "B" AND "C" AND CONTINUES WITHOUT INTERRUPTION. SEE NOTES TO THE RIGHT



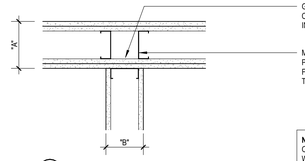
B THREE-WAY INTERSECTION

ALIGN EXPOSED FACES OF GYPSUM BOARD WHERE TWO PARTITIONS OF DIFFERENT THICKNESSES ABUT, TYPICAL

METAL STUD OF TYPE AS INDICATED BY PARTITION TYPE. REFER TO FLOOR PLANS FOR DESIGNATION. ATTACH GYPSUM BOARD TO EACH STUD TYPICAL

GYPSUM BOARD AT INSIDE CORNER OF PRIORITY PARTITION SLIPS BETWEEN STUDS. SPACE STUDS TO ALLOW APPLICABLE GYPSUM BOARD THICKNESS TO PASS.

NOTE: PARTITION TYPE "A" HAS PRIORITY OVER PARTITION TYPE "B" AND CHANGES DIRECTION. SEE NOTES TO THE RIGHT



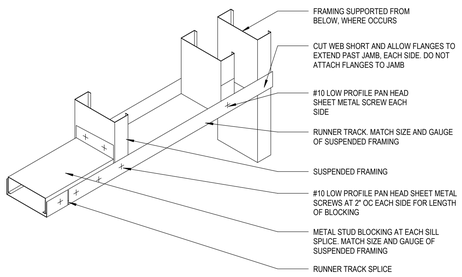
A THREE-WAY INTERSECTION

GYPSUM BOARD OF PRIORITY PARTITION CONTINUES THROUGH INTERSECTION WITHOUT INTERRUPTION

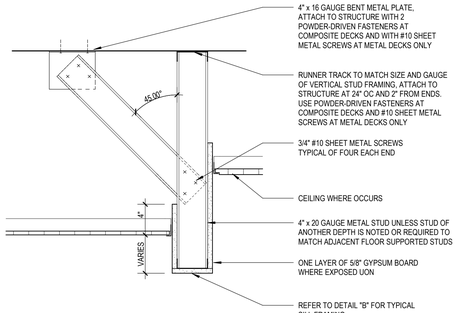
METAL STUD OF TYPE AS INDICATED BY PARTITION TYPE. REFER TO FLOOR PLANS FOR DESIGNATION. ATTACH GYPSUM BOARD TO EACH STUD TYPICAL

NOTE: PARTITION TYPE "A" HAS PRIORITY OVER PARTITION TYPE "B" AND CONTINUES WITHOUT INTERRUPTION. SEE NOTES TO THE RIGHT

TYPICAL UNLESS OTHERWISE NOTED AND/OR DETAILED

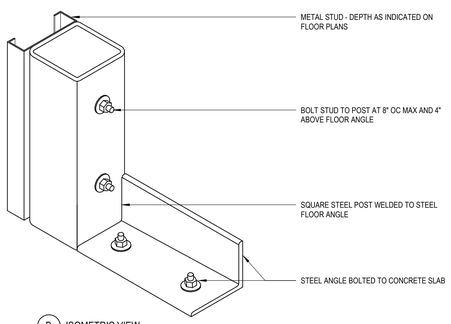


B TYPICAL SILL REQUIREMENTS

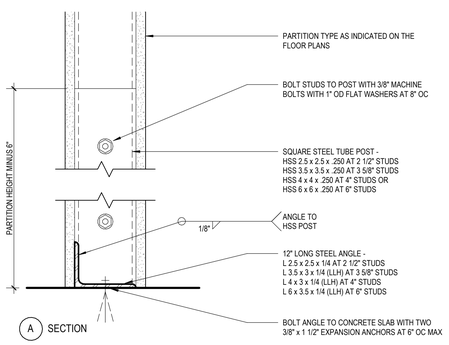


A TYPICAL KNEE BRACE REQUIREMENTS

62 SUSPENDED PARTITION - TYPICAL DETAILS
SCALE: 1 1/2" = 1'-0"

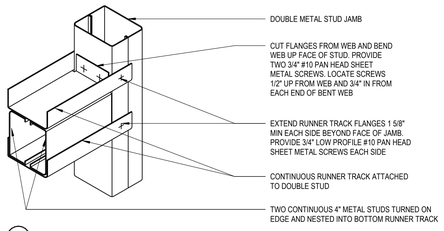


B ISOMETRIC VIEW

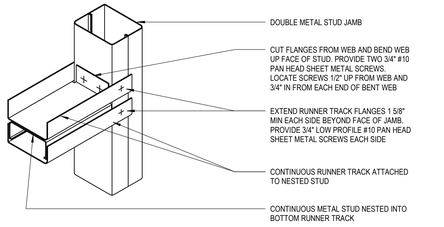


A SECTION

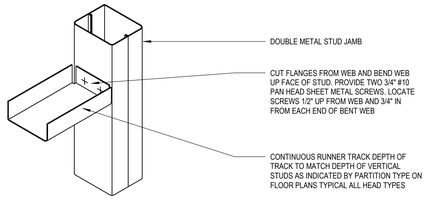
46 PARTIAL HEIGHT PARTITION BRACING AND ANCHORAGE
SCALE: 3" = 1'-0"
TYPICAL AT CORNERS, ENDS AND 4'-0" OC MAX BETWEEN



C JAMB AT TYPE 3 HEAD - OPENINGS 8'-0" TO 12'-0" WIDE



B JAMB AT TYPE 2 HEAD - OPENINGS 3'-6" TO 8'-0" WIDE

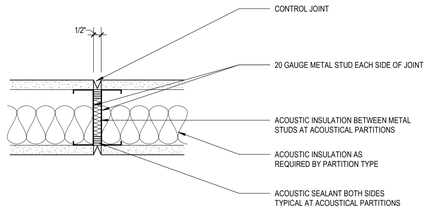


A JAMB / HEAD TYPE 1 - OPENINGS UP TO 3'-6" WIDE

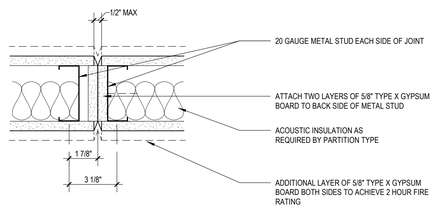
30 HEAD / JAMB CONNECTION
SCALE: 1 1/2" = 1'-0"
TYPICAL FRAMING DETAILS

TYPICAL CONTROL JOINTS AT METAL STUD PARTITIONS

TYPICAL AT CORNERS, ENDS AND 4'-0" OC MAX BETWEEN



A NON-RATED PARTITIONS

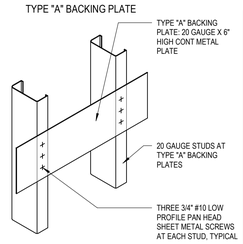


B FIRE-RATED CONTROL JOINT (1 AND 2 HOUR RATINGS)

TYPICAL BACKING PLATE SCHEDULE

PROVIDE BACKING PLATES AS INDICATED ON THE DRAWINGS OR WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING SCHEDULE:

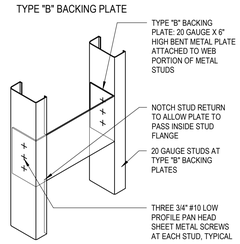
TYPE "A" BACKING PLATE



TYPE "A" BACKING PLATES:

- AT DOOR STOPS AND BUMPER RAILS
- AT TOILET ACCESSORIES, MIRRORS, COAT HOOKS ETC
- AT ALL UPPER WALL HUNG CABINETS
- AT ALL BASE CABINETS
- AT ALL FULL HEIGHT CABINETS
- AT WALL MOUNTED ADJUSTABLE SHELVING
- AT ALL WALL MOUNTED HANDRAILS

TYPE "B" BACKING PLATE



TYPE "B" BACKING PLATES:

TYPE "B" BACKING PLATE SHALL SUPPORT THE SAME ITEMS AS TYPE "A" BACKING PLATE BUT USE WHERE APPEARANCE IS THE MAIN CONCERN SUCH AS LOBBIES AND OTHER HIGH DESIGN AREAS

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5100 Buckeystown Pike, Suite 250
Frederick, MD 21704
301-371-6047

ISSUED FOR	REV	DATE
PERMIT DOCUMENTS		04/12/2021
95% CONSTRUCTION DOCUMENTS		04/12/2021
DESIGN DEVELOPMENT		03/09/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
PARTITION SYSTEMS DETAILS - FRAMING

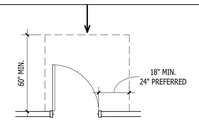
PROJECT NUMBER 12808

SHEET NUMBER CD 1.A.921

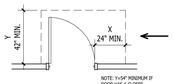
Plot Date: 4/12/2021 6:11:05 PM Author

ADA PLACEMENT

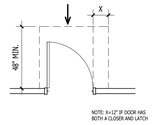
Note: The following are Project Standard references. Not all details may apply.



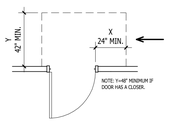
FRONT APPROACH - PULL SIDE



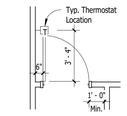
LATCH SIDE APPROACH - PULL SIDE



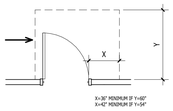
FRONT APPROACH - PUSH SIDE



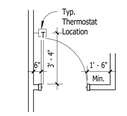
LATCH SIDE APPROACH - PUSH SIDE



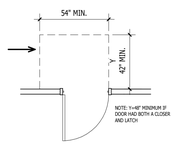
STANDARD DOOR PLACEMENT W/IN-SWING DOOR



HINGE SIDE APPROACH - PULL SIDE

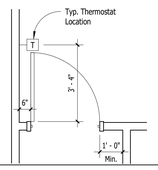


STANDARD DOOR PLACEMENT W/OUT-SWING DOOR

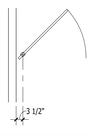


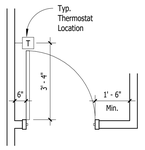
HINGE SIDE APPROACH - PUSH SIDE

STANDARD DOOR PLACEMENT

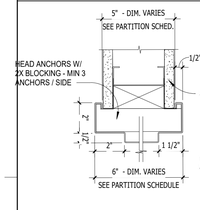


Note: The following are Project Standard references. Not all details may apply.

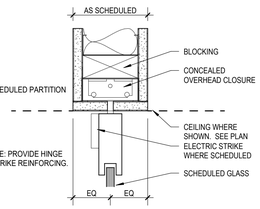




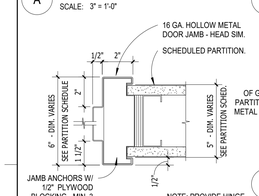
STANDARD DOOR FRAME DETAILS



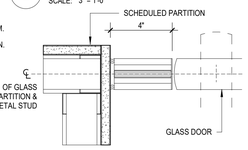
A STANDARD HM HEAD DETAIL
SCALE: 3" = 1'-0"



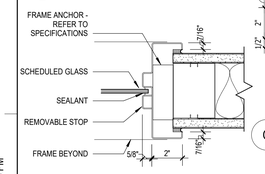
E GLASS DOOR HEAD DETAIL
SCALE: 3" = 1'-0"

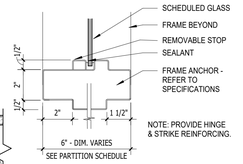


F GLASS DOOR JAMB (PIVOT SIDE)
SCALE: 3" = 1'-0"

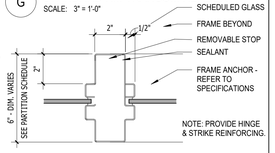


B STANDARD HM JAMB DETAIL
SCALE: 3" = 1'-0"

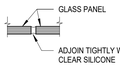




G STANDARD HM TRANSOM HEADER
SCALE: 3" = 1'-0"



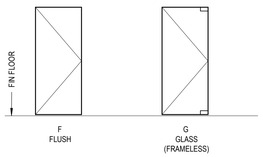
C HEAD/SILL/JAMB DETAIL - WINDOW
SCALE: 3" = 1'-0"



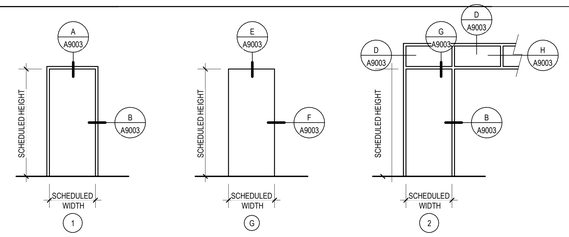
D ADJACENT GLASS DETAIL
SCALE: 3" = 1'-0"

H STANDARD HM TRANSOM SIDE JAMB.
SCALE: 3" = 1'-0"

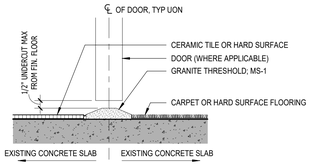
STANDARD DOOR TYPES



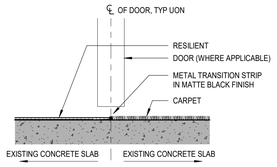
FRAME ELEVATIONS



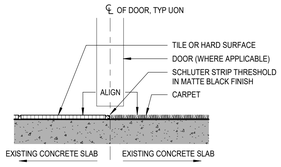
TYPICAL DOOR THRESHOLD



STONE THRESHOLD



RESILIENT TO CARPET



HARD SURFACE/TILE TO CARPET

DOOR SCHEDULE

DOOR AND INTERIOR OPENING SCHEDULE 1

NUMBER	FIRE RATING (MINUTES)	SIZE WIDTH	SIZE HEIGHT	DOOR ELEVATION	DOOR MATERIAL	DOOR FINISH	FRAME ELEVATION	FRAME MATERIAL	FRAME FINISH	HARDWARE SET	GLASS TYPE	SPECIAL NOTES AND COMMENTS
4.06G		3' - 0"	7' - 0"	F	SCWD	WD-1	1	HM	P-2	3		
400A		3' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	3		
400E		3' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	3		
4010		3' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	1B		
4010B		5' - 8"	7' - 0"	F	SCWD	WD-1	1	HM	P-2	4A		LOUVER
4011		3' - 0"	7' - 0"	F	PBD	WD-1	2	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4012		3' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	1C		
4013		3' - 0"	7' - 0"	F	PBD	WD-1	2	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4013A		2' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	1C		
4015		3' - 0"	7' - 0"	F	PBD	WD-1	2	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4016		3' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	1A		
4017		3' - 0"	7' - 0"	F	PBD	WD-1	2	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4017A		2' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	1C		
4018		3' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4019		3' - 0"	7' - 0"	F	PBD	WD-1	2	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4019A		2' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	1C		
4020		3' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4021		3' - 0"	7' - 0"	F	PBD	WD-1	2	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4021A		2' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	1C		
4022		3' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4023		3' - 0"	7' - 0"	F	PBD	WD-1	2	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4023A		2' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	1C		
4024		3' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4025		3' - 0"	7' - 0"	F	PBD	WD-1	2	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4026		3' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4027		3' - 0"	7' - 0"	F	PBD	WD-1	2	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4028		5' - 8"	7' - 0"	F	SCWD	WD-1	1	HM	P-2	2		
4029		3' - 0"	7' - 0"	F	PBD	WD-1	2	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4029A		2' - 6"	7' - 0"	F	PBC	WD-1	1	HM	P-2	1C		
4030B		5' - 8"	7' - 0"	F	SCWD	WD-1	1	HM	P-2	7		DOOR OPERATOR
4032		3' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4033A		2' - 6"	7' - 0"	F	PBC	WD-1	1	HM	P-2	1C		
4034		3' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4035		3' - 0"	7' - 0"	F	PBD	WD-1	2	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4035A		2' - 6"	7' - 0"	F	PBC	WD-1	1	HM	P-2	1C		
4036		3' - 0"	7' - 0"	F	PBD	WD-1	1	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4038		6' - 0"	7' - 0"	F	PBC	WD-1	1	HM	P-2	2		
4040		5' - 8"	7' - 0"		GL	WD-1				8	GL-01	DOOR OPERATOR
4058		3' - 0"	7' - 0"	F	PBD	WD-1	2	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM
4061		3' - 0"	7' - 0"	F	PBD	WD-1	2	HM	P-2	3		DOOR COAT HOOK, PETER PEPPER MODEL 2012, POLISHED ALUMINUM

Grand total: 40

HARDWARE SETS

	HARDWARE SET 1A	PASSAGE LATCHSET - SINGLE (UNSECURED)			solid partition
NO:	DESCRIPTION	QTY	MK	MODEL	FINISH
1A.01	Hinges	1.5 PR	Stanley	TA2714 4-1/2" x 4-1/2"	US26D
1A.02	Passage Set	1	Corbin Russwin	DG164 8215 LNMD	US26D
1A.03	Silencers	3	Ives	409	US32D
1A.04	Floor Mounted Stop	1	Ives		

	HARDWARE SET 1B	PASSAGE LATCHSET - SINGLE (UNSECURED)			solid partition
NO:	DESCRIPTION	QTY	MK	MODEL	FINISH
1B.01	Hinges	1.5 PR	Stanley	TA2714 4-1/2" x 4-1/2"	US26D
1B.02	Passage Set	1	Corbin Russwin	DG164 8215 LNMD	US26D
1B.03	Silencers	3	Ives	409	US32D
1B.04	Floor Mounted Stop	1	Ives		
1B.05	Door Closer	1	Ives		

	HARDWARE SET 1C	PASSAGE LATCHSET - SINGLE (UNSECURED)			solid partition
NO:	DESCRIPTION	QTY	MK	MODEL	FINISH
1B.01	Hinges	1.5 PR	Stanley	TA2714 4-1/2" x 4-1/2"	US26D
1B.02	Passage Set	1	Corbin Russwin	DG164 8215 LNMD	US26D
1B.03	Silencers	3	Ives	409	US32D
1B.04	Floor Mounted Stop	1	Ives		

	HARDWARE SET 2	PASSAGE LATCHSET - DOUBLE (UNSECURED)			solid partition
NO:	DESCRIPTION	QTY	MK	MODEL	FINISH
2.01	Hinges	3 PR.	Stanley	FBB199 - 4.5" x 4.5"	32D - Satin Stainless
2.02	Passage Set	1	Corbin Russwin	CL3350 - PZD	626 - Satin Chromium
2.03	Half Dummy Trim	1	Corbin Russwin	CL3310 - PZD	626 - Satin Chromium
2.04	Manual Flush Bolts - Top & Bottom	2	Ives	FB358	B26D - Satin Chromium
2.05	Dust Proof Strike	2	Ives	DP2	US26D - Satin Chromium
2.06	Silencers	6	Ives	SR64	
2.07	Overlapping Astragal	2	National Guard Products, Inc.	178SA	Clear Anodized (178SDKB for Bronze Finish)

	HARDWARE SET 3	STOREROOM - SINGLE (SECURED)			solid partition
	DESCRIPTION	QTY	MK	MODEL	FINISH
3.01	Hinges	1.5 PR	Stanley	FBB199 - 4.5" x 4.5"	32D - Satin Stainless
3.02	Storeroom Lockset	1	Corbin Russwin	CL3357 - PZD	626 - Satin Chromium
3.03	Silencers	3	Ives	SR64	
3.04	Floor Mounted Stop	1	Ives	FS436 x 435	26D - Satin Chromium
3.05	Overhead Door Stop	1	Dorma	TS93	04 - Stainless Steel
3.06	Card Reader	1	BY SECURITY CONTRACTOR		
3.07	Electric Strike		BY SECURITY CONTRACTOR		

Operational Description: Door is normally closed and locked. Presenting a valid card to card reader will momentarily unlock outside lever, allowing entry. Entry also by key in cylinder. Egress at all times by operating inside lever and exiting. Operating inside lever will shunt door contact allowing for authorized egress (REX). Door position switch in lockset monitors the position of the door and reports this status to the security system.

	HARDWARE SET 4A	STOREROOM - DOUBLE (SECURED)			solid partition
	DESCRIPTION	QTY	MK	MODEL	FINISH
4.01	Hinges	3 PR.	Stanley	FBB199 - 4.5" x 4.5"	32D - Satin Stainless
4.02	Storeroom Lockset	1	Corbin Russwin	CL3357 - PZD	626 - Satin Chromium
4.03	Half Dummy Trim	1	Corbin Russwin	CL3350 - PZD	626 - Satin Chromium
4.04	Manual Flush Bolts - Top & Bottom	2	Ives	FB358	B26D - Satin Chromium
4.05	Dust Proof Strike	2	Ives	DP2	US26D - Satin Chromium
4.06	Silencers	6	Ives	SR64	
4.07	Floor Mounted Stop	2	Ives	FS436 x 435	26D - Satin Chromium
4.08	Overhead Door Stop	1	Dorma	TS93	04 Stainless Steel
4.09	Overlapping Astragal	1	National Guard Products, Inc.	178SA	Clear Anodized (178SDKB for Bronze Finish)
4.10	Card Reader		BY SECURITY CONTRACTOR		
4.11	Electric Strike		BY SECURITY CONTRACTOR		
4.12	Louver	2			

Operational Description: Door is normally closed and locked. Presenting a valid card to card reader will momentarily unlock outside lever, allowing entry. Entry also by key in cylinder. Egress at all times by operating inside lever and exiting. Operating inside lever will shunt door contact allowing for authorized egress (REX). Door position switch in lockset monitors the position of the door and reports this status to the security system.

	HARDWARE SET 7	ACCESS CONTROL WITH FAIL SAFE - DOUBLE (SECURED)			glass partition (vestibule)
	DESCRIPTION	QTY	MK	MODEL	
7.01	Magnetic Lock	3 EA			US26D
7.02	Pull	1			US26D
7.03	REX Motion Sensor	1			
7.04	REX Push Button	1			
7.05	Power Supply	1			
7.06	Card Reader	1	BY SECURITY CONTRACTOR		
7.07	Door Contact	1 EA	BY SECURITY CONTRACTOR		
7.08	Concealed Closer	1 EA			

Operational Description: Door is normally closed and secured with magnetic lock. Presenting a valid card to the card reader will momomentarily release magnetic lock allowing entry. Entering read range of motion sensor on mag lock or pressing push button will momentarily release magnetic lock allowing manual egress. Upon activation of fire alarm system, power to the magnetic lock is interrupted allowing fre and immediate egress. Door contact in magnetic...

	HARDWARE SET 8	EXIT ONLY - SINGLE (SECURED)			solid partition
	DESCRIPTION	QTY	MK	MODEL	FINISH
8.01	Hinges	1.5 PR	Stanley	FBB199 - 4.5" x 4.5"	32D - Satin Stainless
8.02	Exit Dev (EXIT ONLY)	1			
8.03	Silencers	3	Ives	SR64	
8.04	Floor Mounted Stop	1	Ives	FS436 x 435	26D - Satin Chromium
8.05	Door Contact	1	BY SECURITY CONTRACTOR		
8.06	Closer	1 EA			

Operational Description: EXIT ONLY. Manual egress at all times by operating panic bar/lever for egress. Door contact monitors the position of the door and reports this status to the security system.

GENERAL SHEET NOTES

A. HARDWARE LOCKSET FUNCTIONS BASED UPON CORBIN-RUSSWIN CL-3300 SERIES - 7 PIN CYLINDERS.

B. ALL DOOR HANDLES TO BE THE PRINCETON AS MANUFACTURED, CORBIN-RUSSWIN, CL-3300 SERIES, OR APPROVED EQUAL - SUBMIT METAL SAMPLES FOR FINAL FINISH DETERMINATION.

C. ALL HARDWARE TO MATCH BASE BUILDING FINISH, UNO - SUBMIT METAL SAMPLES TO ARCHITECT FOR FINAL DETERMINATION.

D. ALL HARDWARE AND FUNCTIONS SHALL BE ADA COMPLIANT.

E. MAXIMUM UNDERCUT ON ALL DOORS SHALL BE 1/2" AFF UNLESS NOTED OTHERWISE.

F. ALL SECURITY CONTROLLED EGRESS DOORS SHALL COMPLY AS INDICATED BY THE FOLLOWING:

DCBC 2017/IBC 2015

SECTION: 1010.1.9.8 THE ELECTRIC LOCKS ON SENSOR RELEASED DOORS LOCATED IN A MEANS OF EGRESS IN A BUILDINGS WITH AN OCCUPANCY IN GROUP A, B, E, I-1, I-2, I-4, M, R-1, R-2 AND ENTRANCE DOORS TO TENANT SPACES IN OCCUPANCIES IN GROUP A, B, E, I-1, I-2, I-4, M, R-1, R-2 ARE PERMITTED WHERE INSTALLED AND OPERATED IN ACCORDANCE WITH ALL OF THE FOLLOWING CRITERIA:

1. A SENSOR SHALL BE PROVIDED ON THE EGRESS SIDE ARRANGED TO DETECT AN OCCUPANT APPROACHING THE DOORS. THE DOORS SHALL BE ARRANGED TO UNLOCK BY A SIGNAL FROM OR LOSS OF POWER TO THE SENSOR.

2. LOSS OF POWER TO THE LOCK OR LOCKING SYSTEM SHALL AUTOMATICALLY UNLOCK THE DOORS.

3. THE DOORS SHALL BE ARRANGED TO UNLOCK FROM A MANUAL UNLOCKING DEVICE LOCATED 40 INCHES TO 48 INCHES (1016MM TO 1219MM) VERTICALLY ABOVE THE FLOOR AND WITH IN 5 FEET (1524MM) OF THE SECURED DOORS. READY ACCESS SHALL BE PROVIDED TO THE MANUAL UNLOCKING DEVICE AND THE DEVICE SHALL BE CLEARLY IDENTIFIED BY A SIGN THAT READS "PUSH TO EXIT." WHEN OPERATED, THE MANUAL UNLOCKING DEVICE SHALL RESULT IN DIRECT INTERRUPTION OF POWER TO THE LOCK-INDEPENDENT OF THE ACCESS CONTROL SYSTEM ELECTRONICS AND THE DOORS SHALL REMAIN UNLOCKED FOR A MINIMUM OF 30 SECONDS.

4. ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM, WHERE PROVIDED, SHALL AUTOMATICALLY UNLOCK THE DOORS, AND THE DOORS SHALL REMAIN UNLOCKED UNTIL THE FIRE ALARM SYSTEM HAS BEEN RESET.

5. ACTIVATION OF THE BUILDING AUTOMATIC SPRINKLER OR FIRE DETECTION SYSTEM, WHERE PROVIDED, SHALL AUTOMATICALLY UNLOCK THE DOORS. THE DOORS SHALL REMAIN UNLOCKED UNTIL THE FIRE ALARM SYSTEM HAS BEEN RESET.

6. THE DOOR LOCKING SYSTEM UNITS SHALL BE LISTED IN ACCORDANCE WITH UL 294.

SECTION: 1010.1.9 DOOR OPERATIONS. EXCEPT AS SPECIFICALLY PERMITTED BY THIS SECTION EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

H. CARL MOULTRIE I COURTHOUSE
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ISSUED FOR	REV	DATE
PERMIT DOCUMENTS		04/12/2021
95% CONSTRUCTION DOCUMENTS		04/12/2021
DESIGN DEVELOPMENT		03/09/2021
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

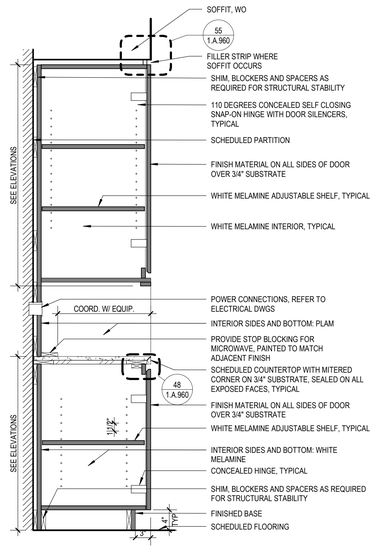
NOT FOR CONSTRUCTION

SHEET TITLE
DOOR AND HARDWARE SCHEDULES

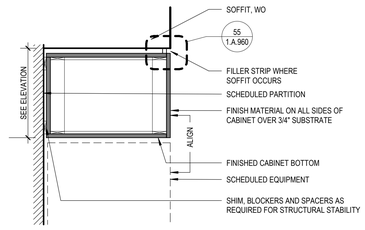
PROJECT NUMBER
12808

CD 1.A.930
SHEET NUMBER

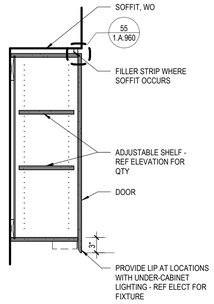
Plot Date: 4/12/2021 6:11:06 PM



52 MILLWORK DETAIL - FULL-HEIGHT CABINET WITH MICROWAVE NICHE
SCALE: 1" = 1'-0"

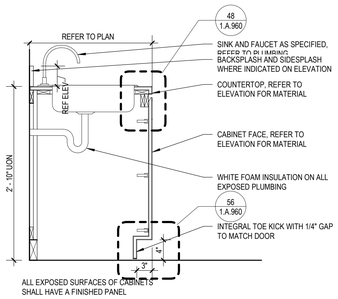


36 MILLWORK DETAIL - UPPER CABINET AT REFRIGERATOR
SCALE: 1" = 1'-0"

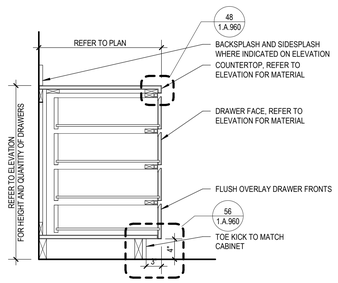


20 WC-D - WALL CABINET DOOR
SCALE: 1" = 1'-0"

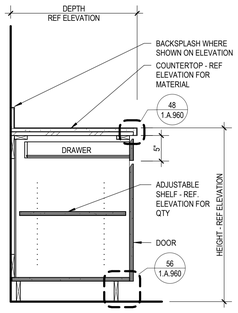
WALL CABINETS



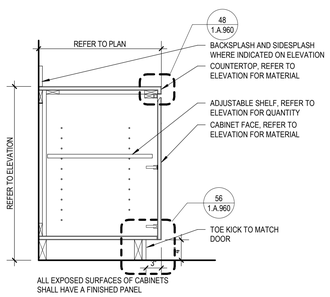
70 BC-S - BASE CABINET ADA SINK WITH DOOR
SCALE: 1" = 1'-0"



54 BC-DW - BASE CABINET WITH DRAWERS
SCALE: 1" = 1'-0"

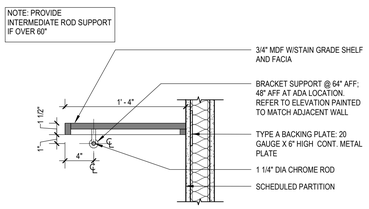


38 BC-DWD - BASE CABINET DRWR DOOR
SCALE: 1" = 1'-0"

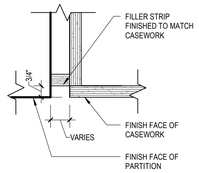


22 BC-D - BASE CABINET WITH DOOR
SCALE: 1" = 1'-0"

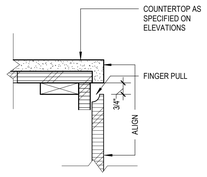
BASE CABINETS



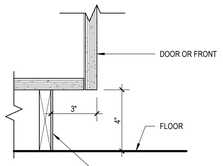
72 MILLWORK DETAIL - ROD & SHELF
SCALE: 1 1/2" = 1'-0"



55 FILLER STRIP DETAIL
SCALE: 3" = 1'-0"



48 COUNTERTOP NOSING & FINGER PULL
SCALE: 3" = 1'-0"



56 TOE KICK
SCALE: 3" = 1'-0"

MISC. DETAILS

- REFER INTERIOR ELEVATIONS FOR FINISHES & CASEWORK TAGS INDICATING EXTENTS AND CONFIGURATION OF MODULAR CASEWORK.
- CASEWORK IDENTIFICATION CODES ARE ILLUSTRATED BY THE EXAMPLES SHOWN BELOW:

CASEWORK TAG:

WC-D 362434

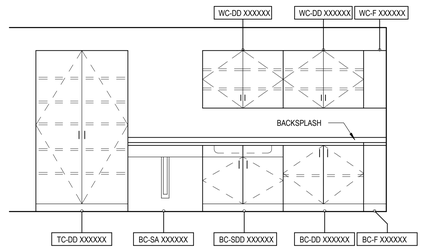
DESCRIPTION
ABBREVIATION
DESCRIPTOR
WIDTH
DEPTH
HEIGHT

ABBREVIATIONS:

BC	BASE CABINET
CT	COUNTER TOP
TC	TALL CABINET
WC	WALL CABINET

DESCRIPTORS:

A	APRON	**L**	LIP
D	DOOR	**M**	MICROWAVE
DW	DRAWER	**O**	OPEN
F	FILLER	**S**	SPLIT
I	ISLAND	**T**	TRASH



LEGEND

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DESIGN DEVELOPMENT		03/09/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
MODULAR CASEWORK SECTIONS

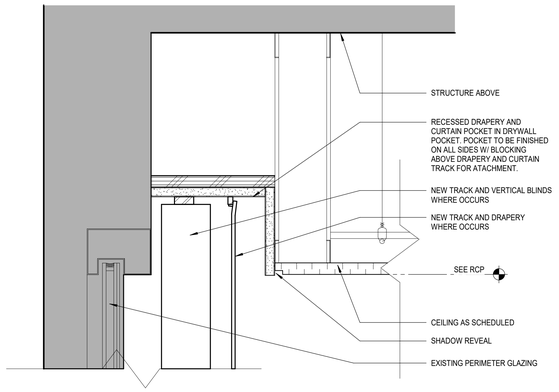
12808
PROJECT NUMBER

CD 1.A.960
SHEET NUMBER

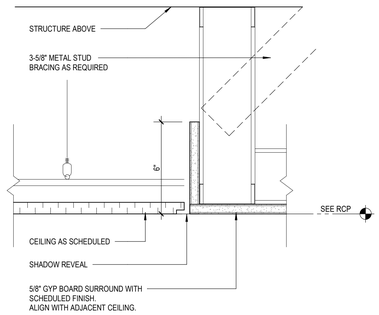
Author

Plot Date: 4/12/2021 6:11:08 PM

CEILING DETAILS

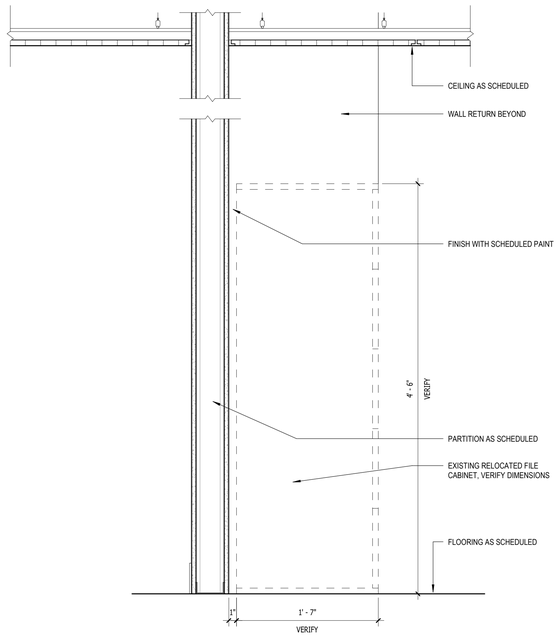


35 CEILING - ACT PERIMETER POCKET
SCALE: 3" = 1'-0"

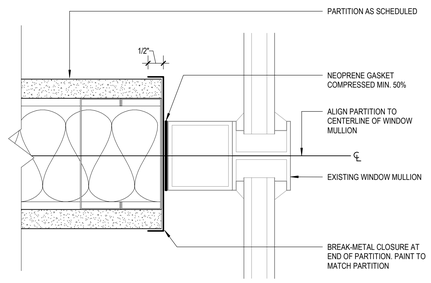


11 CEILING - ACT TO GWB - SAME HEIGHT
SCALE: 3" = 1'-0"

INTERIOR DETAILS



40 SECTION - FILE CABINET NICHE
SCALE: 1 1/2" = 1'-0"



16 PARTITION AT EXTERIOR MULLION
SCALE: 6" = 1'-0"

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SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

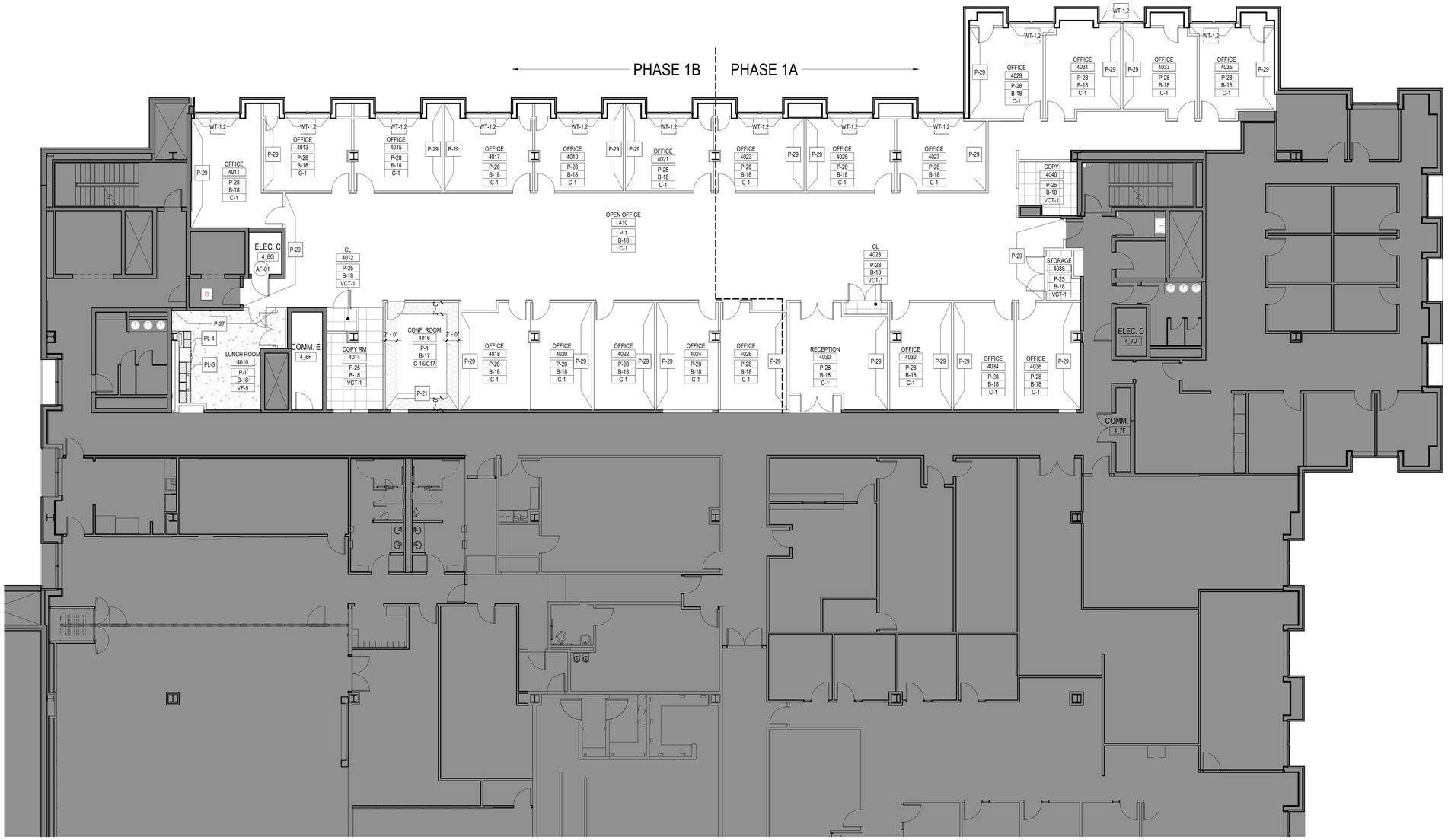
NOT FOR CONSTRUCTION

SHEET TITLE
MISCELLANEOUS INTERIOR AND CEILING DETAILS

PROJECT NUMBER 12808

SHEET NUMBER CD 1.A.961

Plot Date: 4/12/2021 6:11:08 PM Author



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

GRAPHIC LEGEND

Room Name — ROOM NAME
101 — ROOM NUMBER
Wall — WALL FINISH
Base — BASE FINISH
Floor — FLOOR FINISH

MILLWORK

GENERAL SHEET NOTES

A. REFER TO THE A0.X SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

B. REFER TO THE A8.X SERIES SHEETS FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.

C. ALL FINISHES SHALL BE APPLIED IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. A COPY OF THE RECOMMENDATIONS AND INSTRUCTIONS SHALL BE SUBMITTED TO THE DESIGNER PRIOR TO THE INSTALLATION OF MATERIALS.

D. UNLESS OTHERWISE NOTED, ALL PAINT, PAINTING AND PRIMING FOR WALLCOVERINGS AND WALLPAPER ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL SURFACES TO RECEIVE WALLCOVERING SHALL RECEIVE A MINIMUM OF ONE COAT OF PRIMER/SEALER APPROPRIATE TO SUBSTRATE AND FINISH WALLCOVERING.

E. ALL CHANGES IN FLOOR MATERIAL AND COLORS SHALL OCCUR AT THE CENTERLINE OF DOORWAYS UNLESS NOTED OTHERWISE.

F. PAINT ALL UNFINISHED MATERIALS, GRILLES, REGISTERS, ETC. TO MATCH ADJACENT WALLS. MATERIALS WITH A NATURAL FINISH, SUCH AS ANODIZED ALUMINUM, SHALL BE LEFT IN THEIR NATURAL FINISH UNLESS OTHERWISE NOTED BY THE CONSTRUCTION DOCUMENTS.

G. SEE REFLECTED CEILING PLANS FOR CEILING FINISHES.

H. APPLY ONE PRIMER COAT AND TWO FINISH COATS ON SURFACES TO BE PAINTED.

I. PREPARE FLOOR FOR INSTALLATION OF FINISHES IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. REMOVE ALL FOREIGN MATTER, GREASE, WAX, PAINT, OIL, ADHESIVES, DIRT, ETC. CRACKS, HOLES AND DEPRESSIONS SHOULD BE FILLED WITH FLASHING COMPOUND OR LATEX PATCH MATERIAL. CUT OFF ANY PROTRUDING OBJECTS AND GRIND SMOOTH TO LEVEL WITH THE FLOOR SURFACE.

J. INSPECT FLOOR CONSTRUCTION AND SURFACES TO RECEIVE NEW FINISHES AND PROMPTLY NOTIFY THE ARCHITECT OF ANY DEFECTS IN THE SUBSTRATE THAT AFFECT THE WORK SO THAT THEY MAY BE CORRECTED BEFORE THE START OF THE WORK. PROCEEDING WITH THE WORK SHALL BE DEEMED AS ACCEPTANCE BY THE CONTRACTOR OF THE FLOOR AREAS AND HE SHALL BE RESPONSIBLE THEREAFTER FOR THE INSTALLATION OF THE WORK.

K. INSTALL FLOORING MATERIALS WITHIN THE ALLOWABLE TEMPERATURE RANGE AS STATED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALL FLOORING MATERIAL SHALL BE DELIVERED TO THE SITE IN TIME TO ACCLIMATE TO CONDITIONS PRIOR TO INSTALLATION. SUBMIT A COPY OF THE INSTALLATION INSTRUCTIONS SHALL BE SUBMITTED TO THE ARCHITECT AND THE OWNER.

L. UNLESS NOTED OTHERWISE, PAINT ALL EXISTING AND NEW PARTITIONS, BULKHEADS AND OTHER CONSTRUCTS WITHIN THE PROJECT AREA COLOR NO. P-1. SEE FINISH SCHEDULE.

M. ALL RESTROOM WALL TO RECEIVE CT-4 AND CT-5 TILE, FLOOR TO CEILING. REFER TO ELEVATIONS FOR PATTERN AND STARTING POINT.

N. ALL PRIVATE OFFICES WITH EXTERIOR WINDOWS TO GET DRAPERY FABRIC F-1.

SHEET KEYNOTES

AF-01 EXISTING FINISHES TO REMAIN. REPAIR AND REPLACE AS REQUIRED.

Author

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DESIGN DEVELOPMENT		03/09/2021
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

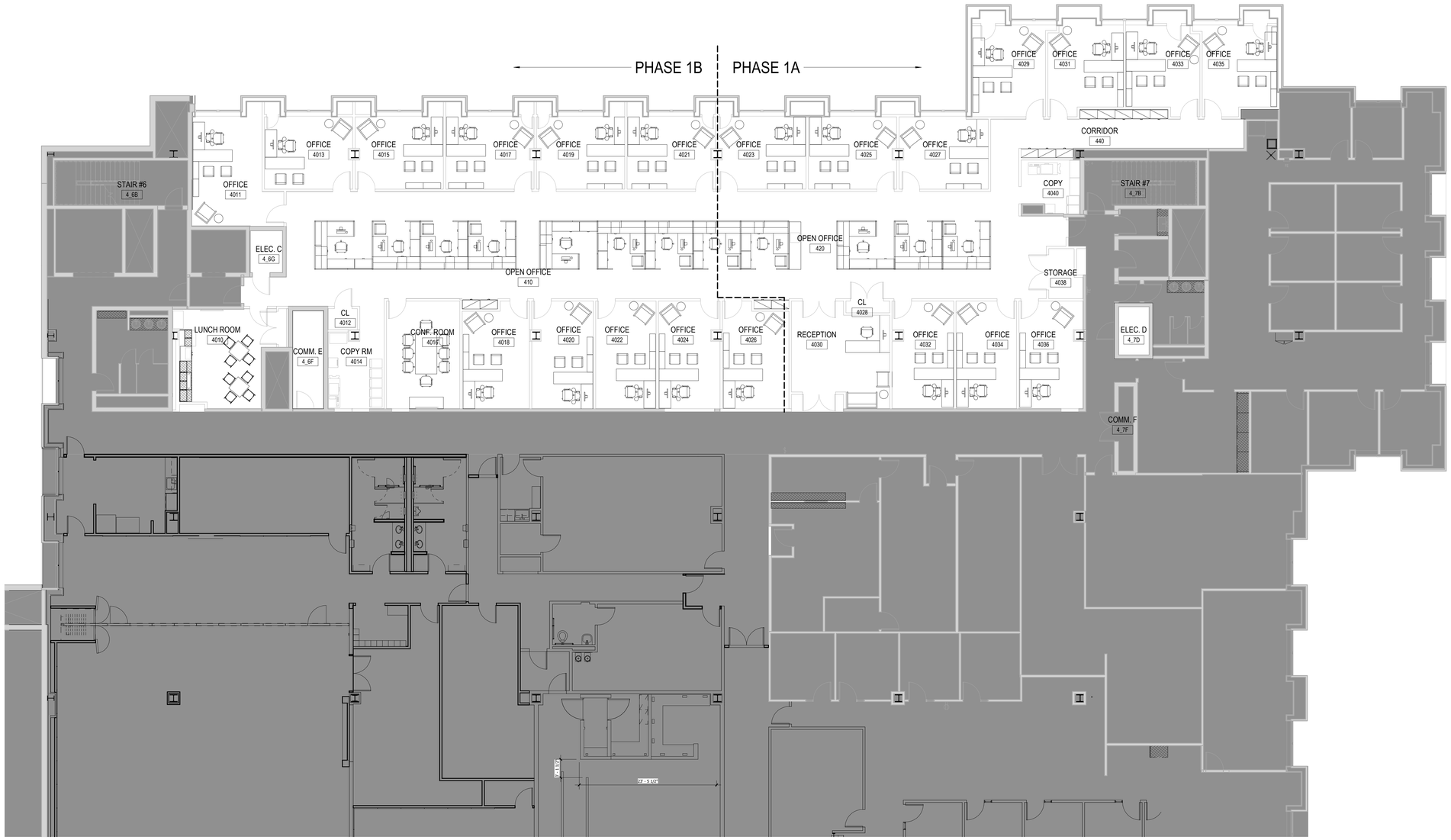
NORTH

PROJECT AREA

SHEET TITLE
FINISH PLAN - FOURTH FLOOR

PROJECT NUMBER
12808

CD 1.AF.404
SHEET NUMBER



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

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DESIGN DEVELOPMENT		03/09/2021
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

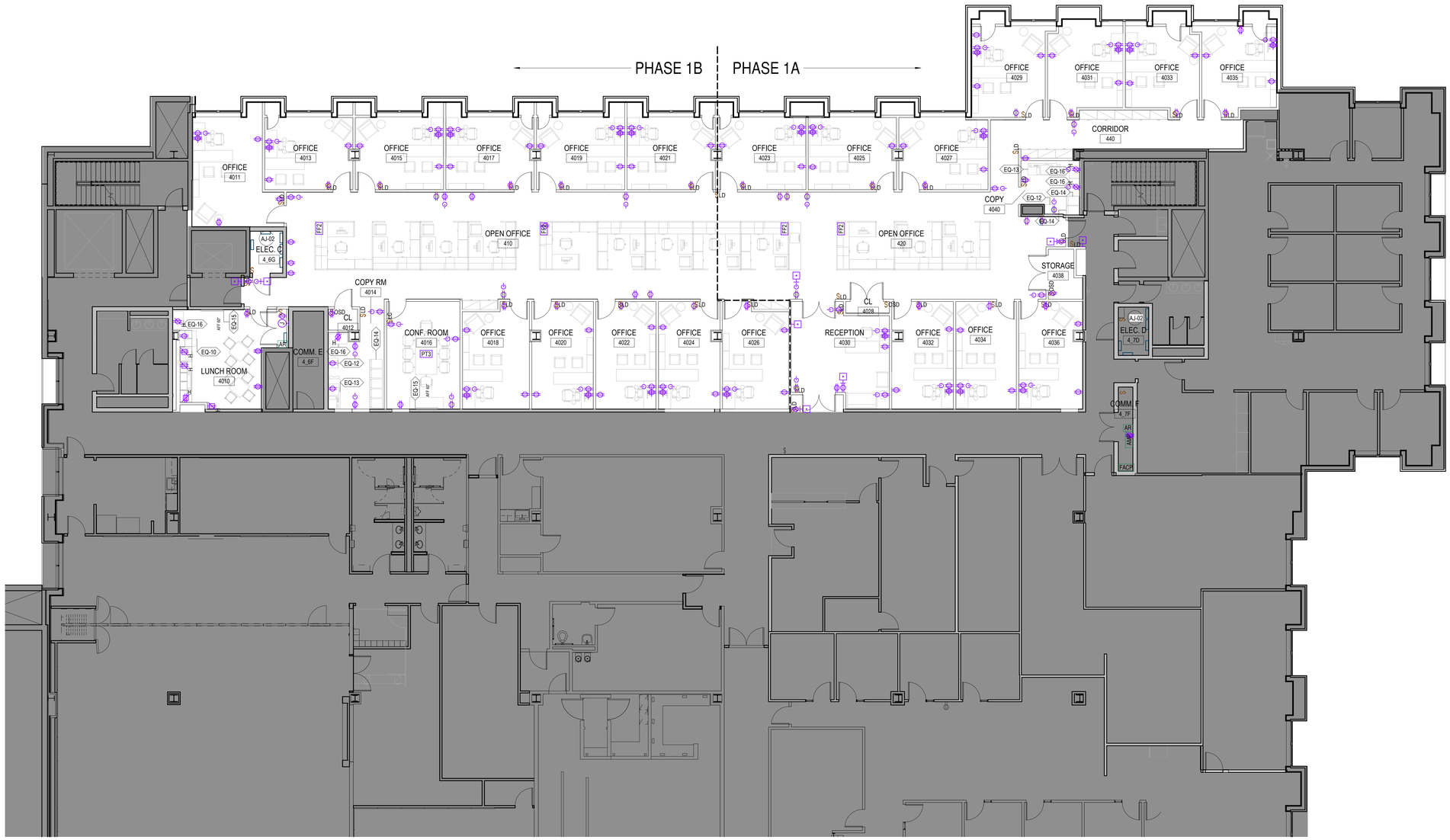
NORTH

SHEET TITLE
FURNITURE PLAN - FOR REFERENCE ONLY

PROJECT NUMBER
12808

CD **1.AI.504**
SHEET NUMBER

Plot Date: 4/12/2021 6:11:37 PM Author



1 POWER/SIGNAL COORDINATION PLAN - FOURTH FLOOR 1

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

GRAPHIC LEGEND

EQUIPMENT AND ACCESSORY SCHEDULE 1

TYPE MARK	MANUFACTURER	DESCRIPTION	MODEL	FINISH/MATERIAL	COMMENTS
EQ-10	WHIRLPOOL	REFRIGERATOR	WRT541SZDW	WHITE	ICE MAKER BOX OATEY 39140 TO BE INCLUDED
EQ-11	WHIRLPOOL	MICROWAVE	WMC30516HW	WHITE	
EQ-12	VENDOR SUPPLIED	BIN SHREDDER	N/A		
EQ-13	VENDOR SUPPLIED	COPY/PRINTER			
EQ-14	OWNER SUPPLIED	CART			
EQ-15	VENDOR SUPPLIED	TV			REFER TO AV DRAWINGS
EQ-16	ARCONAS	TRASH RECEPTACLE	TEMPTATIONS SERIES, A-800 FF3		
EQ-17	EXISTING	FIRE EXTINGUISHER			

GENERAL SHEET NOTES

A. REFER TO THE A0.1 SERIES SHEETS FOR ARCHITECTURAL GENERAL NOTES, DRAWING, REFERENCE AND MATERIAL SYMBOLS, ABBREVIATIONS, AS WELL AS DIMENSIONING CONVENTIONS USED ON THIS SHEET.

B. THE PURPOSE OF THE DRAWINGS ON THIS SHEET IS TO DEFINE THE LOCATION OF ELECTRICAL, TELEPHONE, DATA, AND SECURITY DEVICES, OUTLETS, SWITCHES, AND CONNECTION POINTS FOR COORDINATION WITH FURNITURE AND INTERIOR DESIGN REQUIREMENTS.

C. REFER TO AND COORDINATE WITH MECHANICAL, PLUMBING, AND ELECTRICAL FOR ADDITIONAL INFORMATION NOT SHOWN ON THIS SHEET.

D. REFER TO THE A0.1 SERIES SHEETS FOR TYPICAL MOUNTING HEIGHTS FOR DIMENSIONS NOT SHOWN ON THIS SHEET.

E. INSTALL ALL WALL MOUNTED P/D/T DEVICES VERTICALLY AT 18" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE ON THE PLANS.

F. ELECTRICAL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL OTHER RELATED CODES IN USE BY THE GOVERNING GOVERNMENT AGENCY(IES) AT THE TIME OF CONSTRUCTION. IN THE EVENT OF A CONFLICT BETWEEN THE AFOREMENTIONED REQUIREMENTS, THE MORE RESTRICTIVE SHALL APPLY.

G. ALL MOUNTING HEIGHTS INDICATED ARE TO THE CENTERLINE(S) OF OUTLET(S), DEVICE(S) OR EQUIPMENT UNLESS NOTED OTHERWISE.

H. OUTLETS, OR OTHER DEVICES, WHICH ARE MOUNTED ON OPPOSITE SIDES OF PARTITIONS SHALL NOT BE MOUNTED BACK TO BACK.

I. WHERE CORE DRILLING IS REQUIRED, XRAY THE CONCRETE SLAB TO VERIFY THAT THE LOCATION TO BE DRILLED IS FREE OF OBSTRUCTIONS. REPORT FINDINGS OF THE XRAY TO THE OWNER PRIOR TO COMMENCING THE WORK.

J. COORDINATE WITH ELECTRICAL DRAWINGS FOR MORE INFO.

SHEET KEYNOTES

AJ-02 COORDINATE WITH ELECTRICAL DRAWINGS AND SPECS.

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SEALS AND SIGNATURES

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KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE

POWER/SIGNAL COORDINATION PLAN - FOURTH FLOOR

PROJECT NUMBER 12808

CD 1.AJ.604

SHEET NUMBER

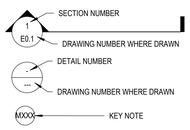
Author

Plot Date: 4/12/2021 6:40:00 PM

FIRE SUPPRESSION ABBREVIATIONS

A	
ABBR	ABBREVIATION
ADA	AMERICAN WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AMB	AMBIENT
ANSI	AMERICAN NATIONAL STANDARDS
AP	ACCESS PANEL
APPROX	APPROXIMATE
B	
BFP	BACKFLOW PREVENTER (TYPE AS INDICATED)
BHP	BRAKE HORSEPOWER
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNITS PER HOUR
BV	BALL VALVE
C	
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
COMP	COMPRESSOR
COND	CONDENSATE
CONT	CONTINUATION
CV	CHECK VALVE
D	
DIA	DIAMETER
DN	DOWN
DOM	DOMESTIC
DWG	DRAWING
E	
(E)	EXISTING MATERIAL OR EQUIPMENT TO REMAIN
EA	EACH
EFF	EFFICIENCY
EL	ELEVATION
EQ	EQUIVALENT
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERNAL
F	
F	FIRE
FCU	FAN COIL UNIT
FHV	FIRE HOSE VALVE
FL	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FT	FEET OR FOOT
°F	DEGREES IN FAHRENHEIT
G	
GAL	GALLON
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MNUTE
GV	GATE VALVE
H	
HG	MERCURY
HGL	HYDRAULIC GRADE LINE
HGT	HEIGHT
HP	HORSE POWER
HPS	HIGH PRESSURE STEAM
HR	HOUR
I	
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
K	
kW	KILOWATTS
L	
LGT	LENGTH
LWT	LEAVING WATER TEMPERATURE
M	
MAX	MAXIMUM
MBH	1000 BTU/HR
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MTG	MOUNTING
N	
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW AND YOKE
P	
PH	PHASE (ELECTRICAL)
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH - GAUGE
R	
REF	REFERENCE
RL	RELOCATED MATERIAL OR EQUIPMENT
RPM	REVOLUTIONS PER MINUTE
S	
SCFM	STANDARD CUBIC FEET PER MINUTE
SE	SEWAGE EJECTOR
SF	SQUARE FEET
SG	SPECIFIC GRAVITY
SPEC	SPECIFICATION
SPR	SPRINKLER
SPR/STP	SPRINKLER/STANDPIPE
SQ. FT.	SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
STM	STEAM
T	
TEMP	TEMPERATURE
TS	TAMPER SWITCH
TYP	TYPICAL
U	
UON	UNLESS OTHERWISE NOTED
V	
V	VOLT
VEL	VELOCITY
W	
W/	WITH
W/O	WITHOUT
WG	WATER GAUGE
Y	
YD	YARD
Z	
ZCA	ZONE CONTROL ASSEMBLY

REFRENCE SYMBOLS



FIRE SUPPRESSION LEGENDS AND SYMBOLS

- 2.5" FIRE HOSE VALVE CONNECTION
- 2.5" FIRE HOSE VALVE IN CABINET
- PIPE CONTINUATION
- ZCA — ZONE CONTROL ASSEMBLY (ZCA) CONSISTING OF CHECK VALVE, BUTTERFLY VALVE, PRESSURE GAUGE, WATER FLOW SWITCH, VALVE SUPERVISORY SWITCH, PRESSURE RELIEF VALVE, AND INSPECTORS TEST AND DRAIN.

SPRINKLER HAZARD CLASSIFICATION CRITERIA

NFPA 13 HAZARD CLASSIFICATION

- NOT IN SCOPE OF WORK
- OCCUPANCY CLASSIFICATION.....LIGHT HAZARD
  DESIGN DENSITY.....0.10GPM/SF
  REMOTE HYDRAULIC AREA 1500SF
- OCCUPANCY CLASSIFICATION.....ORDINARY HAZARD 1
  DESIGN DENSITY.....0.15GPM/SF
  REMOTE HYDRAULIC AREA 1500SF

FIRE SUPPRESSION GENERAL NOTES

A. SCOPE OF WORK: MODIFY EXISTING FIRE SPRINKLER SYSTEM TO PROVIDE A COMPLETE HYDRAULICALLY- CALCULATED WET AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE AREA OF WORK, INCLUDING BUT NOT LIMITED TO ZONE CONTROL ASSEMBLY, WATER FLOW ALARM SWITCHES, VALVE SUPERVISORY SWITCHES, CHECK VALVES, CONTROL VALVES, PIPING, HANGERS, SPRINKLERS, ALL ASSOCIATED EQUIPMENT, WIRING AND APPURTENANCES, NORMALLY AND CUSTOMARILY REQUIRED, WHETHER INDICATED OR INHERENTLY NECESSARY DUE TO THE NATURE OF THE WORK, FOR A COMPLETE AND OPERATIONAL SYSTEM. CONTRACTOR MAY DEVIATE FROM DESIGN WITHOUT SUBMITTING A FORMAL RFI AS LONG AS DESIGN INTENT IS MAINTAINED.

B. ALL WORK SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE APPLICABLE BUILDING AND FIRE CODES AND THE REFERENCED EDITIONS OF NFPA 13, 14, 20, 70 AND 72.

C. WHERE ANY CONFLICT AND/OR DISCREPANCY BETWEEN THESE GENERAL NOTES AND ANY OTHER INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS EXISTS, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL AND BE A REQUIREMENT OF THE WORK. THAT NOTWITHSTANDING, ANY SUCH CONFLICT AND/OR DISCREPANCY SHALL PROMPTLY BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT AND ENGINEER.

D. A WET PIPE SPRINKLER SYSTEM SHALL BE INSTALLED IN ALL HEATED SPACES. A DRY PIPE SYSTEM WILL BE INSTALLED IN ALL SPACES REQUIRING A SPRINKLER(S) WHERE EXPOSED TO AMBIENT TEMPERATURES.

E. THE TERM "PROVIDE" SHALL MEAN FURNISH, INSTALL AND CONNECT EQUIPMENT/DEVICE FOR A COMPLETE AND OPERATIONAL SYSTEM. THE TERM "REMOVE" SHALL MEAN DISCONNECT AND CLEAR EQUIPMENT/DEVICE FROM SITE, AS WELL AS MAINTAINING UPSTREAM AND DOWNSTREAM EQUIPMENT/DEVICES AS REQUIRED.

F. THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC AND INTENDED TO SHOW DESIGN INTENT ONLY. RUN ALL PIPING STRAIGHT AND TIGHT TO THE FACE OF STRUCTURAL MEMBERS AND WALLS, PARALLEL AND AT RIGHT ANGLES TO STRUCTURAL STEEL OR CONCRETE ELEMENTS.

G. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS ON DRAWINGS PRIOR TO EXECUTION OF THIS CONTRACT. IT SHALL BE THE RESPONSIBILITY OF CONTRACTOR TO VERIFY JOB CONDITIONS AND COORDINATE ALL SYSTEM COMPONENTS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES WITH THESE DRAWINGS TO THE ENGINEER IMMEDIATELY.

H. COORDINATE ALL WORK AND AVOID ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLS, DUCTS, STRUCTURAL MEMBERS, PIPES AND OTHER OBSTRUCTIONS.

I. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED OR BURNED UNLESS PREVIOUSLY APPROVED BY THE STRUCTURAL ENGINEER. FURTHER, ANY APPROVED CUTTING OR PATCHING OF ANY STRUCTURAL WORK SHALL NOT RESULT IN A REDUCTION OF LOAD-CARRYING AND/OR LOAD-DEFLECTION RATIO. PRIOR TO SUCH WORK, OBTAIN APPROVAL FROM THE ENGINEER OF RECORD.

J. ALL WALL AND FLOOR PENETRATIONS SHALL BE CORE-DRILLED. PROVIDE PIPE SLEEVES FOR WALL AND FLOOR PENETRATIONS AS INDICATED IN THE SPECIFICATIONS. ALL PENETRATIONS IN WALLS, CEILINGS AND FLOORS SHALL BE PROVIDED WITH A UL-LISTED PENETRATION SEAL ASSEMBLY, WITH A FIRE RATING EQUIVALENT TO OR GREATER THAN THE FIRE RATING OF THE BARRIER PENETRATED STAIRWAY, SHAFT ENCLOSURES, AND FLOOR SLABS SHALL BE CONSIDERED 2-HOUR FIRE RESISTIVE RATED CONSTRUCTION UNLESS OTHERWISE NOTED.

K. PRIOR TO CORE DRILLING, CONTRACTOR SHALL VERIFY EXISTING CONDITION NOT TO DAMAGE ANY STRUCTURAL ELEMENT, CONDUIT, REBAR, AND ETC. ANY DAMAGE RESULTING FROM THE WORK, WHETHER INTENTIONAL OR NOT, SHALL BE REPAIRED AT NO ADDITIONAL COST TO, AND TO THE SATISFACTION OF THE OWNER.

L. ALL DAMAGE TO WALLS, CEILINGS, FLOORS, AND STRUCTURAL MEMBERS FROM THE WORK SHALL BE PATCHED, REPAIRED AND PAINTED WITH NEW MATERIALS TO MATCH ADJACENT WORK, WHETHER SPECIFICALLY NOTED OR NOT.

M. WHERE POSSIBLE, SPRINKLERS SHALL BE ALIGNED WITH OTHER SPRINKLERS INSTALLED IN THE SAME ROOM OR AREA.

N. AS A MINIMUM, MAINTAIN 6-FT 8-INCH HEAD ROOM CLEARANCE BETWEEN BOTTOM OF SPRINKLER PIPE AND FINISHED FLOOR, INCLUDING STAIRWELLS.

O. CONTRACTOR SHALL PAY ALL REQUIRED FEES AND OBTAIN ALL NECESSARY PERMITS AND LICENSES FOR INSTALLATION OF THE WORK.

P. COORDINATE AND SEQUENCE THE WORK PRIOR TO FABRICATION AND INSTALLATION OF EQUIPMENT. MAKE NECESSARY ACCOMMODATIONS TO MEET THE INTENT OF THE DRAWINGS AND ENSURE A COORDINATED INSTALLATION.

Q. RUN ALL EXPOSED ELEMENTS NEATLY, TIGHT TO THE STRUCTURE (EXCEPT WHERE NOTED), PARALLEL TO WALLS, AND AS INCONSPICUOUSLY AS POSSIBLE.

R. INSTALL ALL CEILING DEVICES IN 2 FT X 2 FT ACOUSTICAL PANEL CEILINGS IN THE CENTER OF THE PANELS; AND IN 2 FT X 4 FT PANELS, INSTALL DEVICE IN THE CENTER OF THE 2 FT X 4 FT OR 2 FT X 2 FT SQUARE AREAS.

S. PROVIDE SPRINKLER(S) UNDER ALL OBSTRUCTIONS GREATER THAN 48 INCHES IN WIDTH AND AS NEEDED TO PROVIDE PROPER COVERAGE AS REQUIRED BY NFPA 13.

T. PROVIDE LISTED GUARDS FOR SPRINKLER PROTECTION WHEN INSTALLED BELOW 7 FT AFF.

U. CONTRACTOR SHALL PROVIDE AN AUTOMATIC AIR VENTING DEVICE NEAR THE HIGHEST POINT WET PIPE SPRINKLER SYSTEM(S) PER NFPA 13.

V. CONTRACTOR SHALL PROVIDE AUXILIARY LOW POINT DRAINS WHERE REQUIRED PER NFPA 13. WHERE AUXILIARY DRAINS ARE INSTALLED BEHIND HARD CEILINGS, PROVIDE AN ACCESSIBLE PANEL DIRECTLY BENEATH THE DRAIN.

W. CONTRACTOR SHALL OBTAIN WATER FLOW TEST DATA CONDUCTED NO MORE THAN 12 MONTHS PRIOR TO SHOP DRAWING PLAN SUBMITTAL TO AUTHORITY HAVING JURISDICTION (AHJ).

X. ALL EQUIPMENT SHALL BEAR UL LISTING LABEL AT MINIMUM, OR IF UL LABEL IS NOT AVAILABLE, THE ITEM SHALL BE TESTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY THAT MEETS UL AND AHJ REQUIREMENTS FOR TESTING FACILITIES. ALL EQUIPMENT SHALL BE INSTALLED PER THE LISTING AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

Y. SPRINKLER SYSTEM WATERFLOW AND CONTROL VALVE SUPERVISORY SWITCHES SHALL BE MONITORED BY BUILDING FIRE ALARM SYSTEM. COORDINATE WITH FIRE ALARM CONTRACTOR SO THAT ELECTRICAL CONNECTION CAN BE MADE BETWEEN THESE DEVICES AND BUILDING FIRE ALARM SYSTEM.

Z. CONTRACTOR SHALL TAKE NECESSARY MEASURES TO KEEP THE PREMISES DRY AT ALL TIMES AND PREVENT WATER DAMAGE TO SURFACES. REPAIR WATER DAMAGE RESULTING FROM THE WORK, WHETHER INTENTIONAL OR NOT, AT NO ADDITIONAL COST TO, AND TO THE SATISFACTION OF THE OWNER.

AA. CONTRACTOR SHALL COORDINATE WITH OWNER TO AVOID FREEZING CONDITIONS DURING CONSTRUCTION ONCE WATER IS FILLED IN THE SPRINKLER SYSTEM.

BB. HYDROSTATIC TESTING OF FIRE SUPPRESSION SYSTEMS SHALL BE WITNESSED BY ENGINEER AND/OR AHJ, BEFORE CEILING CLOSE IN. CONTRACTOR SHALL COORDINATE WITH ENGINEER AND/OR AHJ PRIOR TO TESTING.

CC. CONTRACTOR SHALL CONDUCT FORWARD FLOW TESTING AND THE TESTING SHALL BE WITNESSED BY ENGINEER AND/OR AUTHORITY HAVING JURISDICTION.

DD. THE MAXIMUM FLOOR AREA ON ANY ONE FLOOR TO BE PROTECTED BY SPRINKLERS SUPPLIED BY ANY ONE SPRINKLER RISER OR COMBINED SYSTEM SHALL BE 52,000 SQ FT FOR LIGHT AND ORDINARY HAZARD. THERE IS NO LIMIT TO THE NUMBER OF FLOORS THAT CAN BE PROTECTED BY A SINGLE RISER, BECAUSE EACH FLOOR IS CONSIDERED A SEPARATE FIRE AREA.

FIRE SUPPRESSION GENERAL DEMOLITION NOTES

A. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS DURING THE CONTRACTOR'S PRE-BID SITE VISIT(S) AND BRING TO THE ATTENTION OF THE ARCHITECT/ENGINEER ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL SITE CONDITION PRIOR TO BID FOR CLARIFICATION. AFTER A CONTRACT IS EXECUTED, THE CONTRACTOR SHALL SUBMIT A "REQUEST FOR INFORMATION".

B. THE REQUIRED DEMOLITION IS NOT LIMITED TO THAT PORTION INDICATED ON THE PLANS ALONE, BUT SHALL INCLUDE ALL NECESSARY WORK COINCIDENTAL THERETO AND WORK INDICATED ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS WHICH IS NECESSARY TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS.

C. THE CONTRACTOR SHALL NOT VIOLATE THE PHYSICAL SECURITY OF THE BUILDING DURING DEMOLITION OR ASSOCIATED OPERATIONS. COORDINATED SECURITY CLOSELY WITH THE OWNER.

D. THE CONTRACTOR SHALL SCHEDULE ALL WORK, INCLUDING INTERRUPTIONS OF THE EXISTING UTILITIES, WITH THE OWNER. PRIOR TO STARTING WORK CONTRACTOR SHALL NOTE THAT THE BUILDING WILL BE OCCUPIED AND IN USE DURING PERIODS OF TIME THAT WORK UNDER THIS CONTRACT IS BEING PERFORMED.

E. THE CONTRACTOR SHALL ARRANGE DEMOLITION TO AGREE WITH THE ACCOMPLISHMENT OF WORK UNDER THE VARIOUS PHASES AND IN COORDINATION WITH THE REQUIRED MODIFICATIONS.

F. DO NOT ALTER THE EXISTING SYSTEMS WHICH ARE LOCATED IN AREAS DESIGNATED "NIC" UNLESS SPECIFICALLY INDICATED. PROTECT EXISTING SYSTEMS WITHIN THE LIMITS OF WORK WHICH ARE TO BE RETAINED. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED EQUIPMENT OR SYSTEMS DUE TO CONTRACTOR NEGLIGENCE TO ITS ORIGINAL CONDITION AND TO THE COMPLETE SATISFACTION OF THE OWNER, AND AT NO COST TO THE OWNER.

G. ALL SPRINKLERS AND EQUIPMENT INDICATED TO BE REMOVED SHALL HAVE ALL ASSOCIATED PIPING REMOVED BACK TO THE NEAREST BRANCH, MAIN, RISER OR STANDPIPE AND CAPPED IN A CONCEALED LOCATION.

H. "CONCEALED LOCATION" IS DEFINED AS BEING ABOVE FINISHED CEILING, BELOW FINISHED FLOOR OR WITHIN FINISHED WALL OR PARTITION. SEE ARCHITECTURAL PLANS FOR FINISH INFORMATION.

I. IN A CONCEALED LOCATION CAP OR MAKE READY FOR CONNECTION WITH NEW ANY EXISTING PIPING TO REMAIN. IN AREAS THAT WILL HAVE NO CEILING CAP OR MAKE READY FOR CONNECTION WITH NEW IN A LOCATION TO PROVIDE THE MAXIMUM POSSIBLE HEADROOM. UNDER NO CIRCUMSTANCE MAY AN EXISTING PIPE BE LEFT OPEN.

J. ALL FIXTURES, SPRINKLERS, EQUIPMENT, PIPING AND ACCESSORIES WHICH HAVE BEEN REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE FROM THE PROJECT SITE. REMOVE SPRINKLERS, EQUIPMENT, PIPING AND ACCESSORIES AS SOON AS POSSIBLE. A CREDIT SHALL BE INCLUDED IN THE BID FOR THE SALVAGE VALUE OF ALL REMOVED ITEMS.

K. CAP ALL PIPING USING COMMERCIALLY MANUFACTURED "CIPS". CAP INSTALLATIONS SHALL BE IN ACCORDANCE WITH NEW WORK INSTALLATION PROCEDURES. CRIMPING OF TUBING IS NOT ACCEPTABLE.

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PERMIT DOCUMENTS		04/12/2021
95% CONSTRUCTION DOCUMENTS		04/12/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
FIRE SUPPRESSION ABBREVIATIONS AND SYMBOLS

PROJECT NUMBER 12808.000

CD 1.FP.001
SHEET NUMBER

Author

Plot Date: 4/12/2021 7:41:19 PM

1 FOURTH LEVEL FIRE SUPPRESSION PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. SEE SHEET 1 FP.001 FOR FIRE PROTECTION ABBREVIATIONS, SYMBOLS, AND SPRINKLER HAZARD CLASSIFICATION.

B. ALL WORK INDICATED ON THE CONTRACTOR DOCUMENTS IS INTENDED AS A GUIDE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING THE NECESSARY DOCUMENTS SIGNED AND SEALED BY A PROFESSIONAL FIRE PROTECTION ENGINEER OR NICET II PROFESSIONAL TO BE SUBMITTED TO THE AHJ FOR APPROVAL.

C. DESIGN, FABRICATE, INSTALL AND TEST THE FIRE SPRINKLER SYSTEM(S) IN ACCORANCE WITH THE FOLLOWING CRITERIA: A. AUTHORITY HAVING JURSIDICITION, B. OWNERS INSURANCE CARRIER, C. NFPA 13.

D. BRING TO THE ATTENTION OF THE ARCHITECT/ENGINEER ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS.

E. AREAS IN GRAY ARE OUT OF SCOPE. FIRE PROTECTION SYSTEMS IN THESE AREAS ARE TO REMAIN FULLY FUNCTIONAL AT ALL TIMES. CONTRACTOR IS TO NOTIFY ARCHITECT AND THE OWNER PRIOR TO ANY SHUT DOWN OF SPRINKLER SYSTEM.

F. CONTRACTOR SHALL SURVEY THE AREA OF WORK AND MODIFY (RELOCATE, DEMOLISH, ADD NEW) EXISTING SPRINKLER SYSTEM AS NECESSARY TO CORRECT DEFICIENCIES AND TO PROVIDE A NFPA 13 COMPLIANT SYSTEM. SPRINKLERS SHALL NOT BE REUSED ONCE REMOVED FROM THEIR ORIGINAL LOCATION.

G. DEVICES INSTALLED BUT NOT YET PLACED IN SERVICE SHALL BE PROTECTED FROM CONSTRUCTION DUST, DEBRIS, DIRT, MOISTURE, AND DAMAGE ACCORDING TO MANUFACTURER'S WRITTEN STORAGE INSTRUCTIONS.

H. QUICK RESPONSE CONCEALED SPRINKLERS WITH WHITE-FINISHED COVER PLATES SHALL BE PROVIDED IN AREAS WITH FINISHED CEILINGS. UPRIGHT SPRINKLERS SHALL BE PROVIDED IN AREAS WITHOUT CEILINGS.

I. ALL SPRINKLERS ARE TO BE LOCATED CENTER OF TILE WHEN THEY ARE TO BE INSTALLED IN ACOUSTICAL CEILING.

J. MAINTAIN A MINIMUM OF 7' HEAD ROOM CLEARANCE.

K. CONTRACTOR SHALL VERIFY THE AREA SERVED BY EXISTING SPRINKLER ZONE LOCATED IN STAIR #7. CONTRACTOR SHALL BE PERMITTED TO TIE NEW WORK INTO EXISTING ZONE ONLY IF AREA SERVED IS LESS THAN 52,000 SQUARE FEET. CONTRACTOR SHALL SUBMIT SUPPORTING DOCUMENTATION THAT IDENTIFIES EXISTING BUILDING SPRINKLER SYSTEM ZONE PLANS AND SYSTEM ZONE AREAS.

L. THE CONTRACTOR SHALL PERFORM ALL REQUIRED ACCEPTANCE TESTS AS INDICATED IN THE NFPA 13. A RECORD OF THE TEST SHALL BE SUBMITTED TO THE FIRE DEPARTMENT ON THE APPROPRIATE NFPA FORM.

SHEET KEYNOTES

FP201 LOCATION OF EXISTING COMBINATION STANDPIPE/SPRINKLER RISER FURNISHED WITH EXISTING ZONE CONTROL ASSEMBLY, FIRE HOSE VALVE, AND ALL ASSOCIATED PIPE, PIPE FITTINGS, AND PIPE ACCESSORIES.

FP202 AREA IS CURRENTLY UNSPRINKLERED. CONTRACTOR TO PROVIDE SPRINKLERS, AND ASSOCIATED PIPE, PIPE FITTINGS, AND PIPE ACCESSORIES AS NECESSARY FOR A COMPLIANT NFPA 13 SYSTEM.

FP203 PROVIDE NEW ZONE CONTROL ASSEMBLY FOR ADDITIONAL SPRINKLER WORK.

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE
FOURTH LEVEL FIRE SUPPRESSION PLAN

PROJECT NUMBER
12808.000

CD
SHEET NUMBER
1.FP.204

Author

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PLUMBING ABBREVIATIONS

A	
ABBR	ABBREVIATION
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AMB	AMBIENT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
APPROX	APPROXIMATE
B	
BFP	BACKFLOW PREVENTOR (TYPE AS INDICATED)
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BLV	BALANCING VALVE
BTU/H	BRITISH THERMAL UNIT PER HOUR
BV	BALL VALVE
C	
CA	UTILITY COMPRESSED AIR (PRESSURE AS INDICATED)
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CO	CLEANOUT
COMP	COMPRESSOR
COND	CONDENSATE
CONT	CONTINUATION
CV	CHECK VALVE
CW	DOMESTIC COLD WATER
D	
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DOM	DOMESTIC
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWR	DRINKING WATER RETURN
DWS	DRINKING WATER SUPPLY
E	
(E)	EXISTING MATERIAL OR EQUIPMENT
EA	EACH
ECO	EXTERIOR CLEANOUT
EEW	EMERGENCY EYE WASH
EFF	EFFICIENCY
EFW	EMERGENCY FACE WASH
EL	ELEVATION
EQ	EQUIVALENT
ESH	EMERGENCY SHOWER
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERNAL
F	
F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FL	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
FT	FEET OR FOOT
FTD	FOOTER DRAINAGE
G	
G	NATURAL GAS (PRESSURE AS INDICATED)
GAL	GALLON
GC	GAS COCK
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
GW	GREASE WASTE
H	
HB	HOSE BIBB
HG	MERCURY
HGT	HEIGHT
HP	HORSE POWER
HPS	HIGH PRESSURE STEAM
HR	HOUR
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
I	
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN.	INCHES
K	
kW	KILOWATTS
L	
LAV	LAVATORY
LGT	LENGTH
LPG	LIQUID PETROLEUM GAS
LPS	LOW PRESSURE STEAM
LWT	LEAVING WATER TEMPERATURE
M	
MAX	MAXIMUM
MBH	1000 BTU/HR
MCA	MINIMUM CURRENT AMPACITY
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MINIMUM OVER CURRENT PROTECTION
MPS	MEDIUM PRESSURE STEAM
MTG	MOUNTING
N	
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN/ NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OD	OUTSIDE DIAMETER
OD	OVERFLOW ROOF DRAIN
OFL	OVERFLOW
OSD	OPEN SITE DRAIN
P	
P	PUMP
PC	PUMPED CONDENSATE
PD	PUMPED DISCHARGE (TYPE AS INDICATED)
PDI	PLUMBING DRAINAGE INSTITUTE
PH	PHASE (ELECTRICAL)
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH - GAUGE
PV	PLUG VALVE
PW	PROCESS WATER
R	
RD	ROOF DRAIN
REF	REFERENCE
RL	RELOCATED MATERIAL OR EQUIPMENT
RPM	REVOLUTIONS PER MINUTE
RV	PRESSURE RELIEF VALVE
S	
SAN	SANITARY OR WASTE
SCFM	STANDARD CUBIC FEET PER MINUTE
SCW	SOFTENED COLD WATER
SE	SEWAGE EJECTOR
SG	SPECIFIC GRAVITY
SP	SUMP PUMP
SPEC	SPECIFICATION
SQ. FT.	SQUARE FEET
SS	STAINLESS STEEL
SSD	SUB-SOIL DRAINAGE
ST	STORM (RAINWATER)
STD	STANDARD
STM	STEAM
SV	SOLENOID VALVE
T	
TEMP	TEMPERATURE
TP	TRAP PRIMER
TPU	TRAP PRIMER UNIT
TPV	TEMPERATURE AND PRESSURE RELIEF VALVE
TW	TEMPERED WATER
TYP	TYPICAL
U	
UON	UNLESS OTHERWISE NOTED
V	
V	VOLTAGE/VENT
VAC	VACUUM
VEL	VELOCITY
VTR	VENT THRU ROOF
W	
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WG	WATER GAUGE
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
Y	
YD	YARD

SEE PLUMBING SYMBOLS, LEGENDS AND EQUIPMENT SCHEDULES FOR ADDITIONAL ABBREVIATIONS. ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWINGS ARE NOT NECESSARILY USED.

PLUMBING FLOOR PLAN SYMBOLS

- ISOLATION VALVE
- BALANCING VALVE
- ANGLE VALVE
- CHECK VALVE
- SOLENOID VALVE
- BUTTERFLY VALVE
- BALL VALVE
- PLUG VALVE or GAS COCK
- PRESSURE REGULATOR VALVE FLANGED
- PRESSURE REGULATOR VALVE THREADED
- FLOW INDICATING BALANCE VALVE
- PRESSURE RELIEF VALVE or TEMP PRESSURE RELIEF VALVE
- STRAINER
- MECHANICAL EXPANSION JOINT
- FLEXIBLE CONNECTION
- CLEANOUT
- FLOOR CLEANOUT or EXTERIOR CLEANOUT
- FLOOR DRAIN (ROUND)
- FS — FLOOR SINK (RECTANGULAR)
- ROOF DRAIN
- MATERIAL OR EQUIPMENT TO BE DEMOLISHED
- MATERIAL OR EQUIPMENT EXISTING TO REMAIN
- REDUCER - CONCENTRIC
- REDUCER - ECCENTRIC
- PIPE UNION
- PIPE ANCHOR
- PIPE ALIGNMENT GUIDE/ PIPE SLEEVE
- PRESSURE GAUGE WITH COCK
- THERMOMETER
- QUICK COUPLING
- CAP OR PLUG
- PIPE UP
- PIPE DOWN
- TEE OUTLET - DOWN
- BRANCH TOP CONNECTION
- DIRECTION OF FLOW
- FLOW METER
- AIR VENT WITH VALVE
- WATER HAMMER ARRESTOR
- HOSE BIBB
- WALL HYDRANT
- POINT OF CONNECTION
- POINT OF DISCONNECT

PLUMBING FLOOR PLAN SYMBOLS

- DCW — DOMESTIC COLD WATER
- DHW — DOMESTIC HOT WATER
- DHWR — DOMESTIC HOT WATER RETURN
- V — SANITARY VENT
- SAN — SANITARY DRAIN

REFERENCE SYMBOLS

- 1 / E0.1 — SECTION NUMBER / DRAWING NUMBER WHERE DRAWN
- 1 / P0.1 — DETAIL NUMBER / DRAWING NUMBER WHERE DRAWN
- PXXX — KEY NOTE
- HHWS / 4 — RISER DESIGNATION (TYPE AS INDICATED)
- 4 — DEMO KEY NOTE

PLUMBING GENERAL NOTES

1. INSTALL PLUMBING IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE 2015 AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
2. OBTAIN COMPLETE CONSTRUCTION DOCUMENTS WHICH INCLUDE BUT ARE NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS. ALSO OBTAIN A COMPLETE SET OF SPECIFICATIONS.
3. DURING THE COORDINATION PROCESS BRING TO THE ATTENTION OF THE ARCHITECT AND ENGINEER(S) ANY CONFLICTS. THE CONTRACTOR SHALL NOT PROCEED WITH ANY INSTALLATION EXCEPT AT HIS OWN RISK UNTIL ALL CONFLICTS ARE RESOLVED AND THE CLARIFYING INFORMATION ISSUED TO THE CONTRACTOR BY THE ARCHITECT.
4. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE LOCATION OF ALL STRUCTURAL MEMBERS FOR CONFLICTS WITH PIPING. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF A CONFLICT IS DETERMINED.
5. PROVIDE CLEANOUTS WHERE INDICATED ON DRAWINGS AND WHERE REQUIRED BY THE APPLICABLE CODES.
6. FIRE STOP ALL OPENINGS IN COMPLIANCE WITH THE U.L. LISTING OF THE METHOD USED TO MAINTAIN THE APPROPRIATE FIRE RATING AS REQUIRED BY CODE.
7. COORDINATE ALL PIPING INSTALLED WITH ALL OTHER TRADES (I.E. STRUCTURAL, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION) TO ENSURE THAT ALL SYSTEMS ARE INSTALLED ABOVE THE CEILING OR IN A CONCEALED LOCATION. ALL CEILING HEIGHTS ARE INDICATED ON THE ARCHITECTURAL AND/OR INTERIOR DESIGN DRAWINGS. MAINTAIN MINIMUM CLEARANCES REQUIRED BY THE APPLICABLE CODES THROUGHOUT OUT THE BUILDING.
8. PROVIDE TRAP PRIMERS AND DISTRIBUTION UNITS OR A MECHANICAL ALTERNATIVE I.E. TRAP GAURD AS INDICATED ON DRAWINGS. INSTALL DISTRIBUTION UNITS LEVEL AND LOCATED IN AN ACCESSIBLE AND PROTECTED LOCATION.
9. PROVIDE WATER HAMMER ARRESTORS WHERE QUICK CLOSING VALVES ARE UTILIZED. LOCATE ARRESTORS PER MANUFACTURER'S INSTRUCTIONS. ARRESTOR SHALL BE ACCESSIBLE.
10. INSULATE ALL STORM DRAIN BODIES AND HORIZONTAL PIPING. THE HORIZONTAL STORM PIPING SHALL BE INSULATED AT THE UPPER MOST LEVEL.
11. INSULATE ALL DRAINAGE PIPING RECEIVING CONDENSATE.
12. INSULATE ALL DRAINAGE AND WATER PIPING IN COMPLIANCE WITH ANSI 117.1, LOCAL CODES AND SPECIFICATIONS.
13. INSTALL VALVES AND OR ACCESSORIES SERVING EQUIPMENT TO ALLOW FOR THE REMOVAL OR SERIVICING OF THE VALVES,ACCESORIES AND EQUIPMENT.
14. WHEN PROVIDING UNIONS, VACUUM BREAKERS, STRAINERS, ETC. AS INDICATED ON DRAWINGS AND ALL EQUIPMENT, PROVIDE FOR MAINTENANCE CLEARANCE AS REQUIRED BY CODE.
15. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL PLUMBING FIXTURES.
16. SEE THE PLUMBING FIXTURE CONNECTION SCHEDULE FOR CONNECTION SIZES.
17. ALL ABOVE CEILING WATER/LIQUID 1/4 TURN VALVES SHALL BE HORIZONTAL WITH THEIR VALVE HANDLE. PULL DOWN TOWARDS OPERATOR FOR SHUTOFF.

DEMOLITION GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS DURING THE CONTRACTOR'S PRE-BID SITE VISIT(S) AND BRING TO THE ATTENTION OF THE ARCHITECT/ENGINEER ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL SITE CONDITIONS PRIOR TO BID FOR CLARIFICATION VIA PRE-BID RFI.
2. THE REQUIRED DEMOLITION IS NOT LIMITED TO THAT PORTION INDICATED ON THE PLANS ALONE, BUT SHALL INCLUDE ALL NECESSARY WORK INDICATED ELSEWHERE IN THE SPECIFICATIONS WHICH ARE NECESSARY TO COMPLETE THE INTENT OF THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL NOT VIOLATE THE PHYSICAL SECURITY OF THE BUILDING DURING DEMOLITION OR ASSOCIATED OPERATIONS. COORDINATE DEMOLITION WITH OWNER/AGENT.
4. THE CONTRACTOR SHALL SCHEDULE WITH THE OWNER/AGENT ANY INTERRUPTIONS OF EXISITNG UTILITIES. PRIOR TO STARTING WORK THE CONTRACTOR SHALL HAVE OBTAINED WRITTEN PERMISION TO PROCEED. THE CONTRACTOR SHALL ASSUME THE BUILDING IS OCCUPIED AND OPERATIONAL AT ALL TIMES.
5. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES.
6. IT IS UNDERSTOOD THAT WORK UNDER THESE CONTRACT DOCUMENTS MAY EXTEND PAST THE LIMITS OF WORK. THE OWNER SHALL BE NOTIFIED PRIOR TO WORK STARTING IN THESE AREAS AND PROVIDE A SCHEDULE.
7. ALL FIXTURES AND EQUIIPMENT INDICATED TO BE REMOVED SHALL HAVE ALL ASSOCIATED PIPING REMOVED BACK TO THE NEAREST BRANCH, MAIN, RISER AND CAPPED IN A CONCEALED LOCATION.
8. "CONCEALED LOCATION" IS DEFINED AS BEING ABOVE, BELOW OR BEHIND A FINISHED PLANE.
9. ALL FIXTURES, EQUIPMENT, PIPING AND APPURTANCES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED IN A TIMELY MANNER. THE SALVAGE VALUE SHALL APPEAR AS A CREDIT IN THE BID.
10. ANY PIPE SHALL BE CAPPED USING A COMMERCIALLY PURCHASED CAP. A VALVE OR CRIMPING SHALL NOT CONSTITUTE A CAP AND IS UNACCEPTABLE.

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ISSUED FOR	REV	DATE
PERMIT DOCUMENTS		04/12/2021
95% CONSTRUCTION DOCUMENTS		04/12/2021
DESIGN DEVELOPMENT		03/09/2021
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE

PLUMBING ABBREVIATIONS /SYMBOLS/GENERAL NOTES

Project Number

PROJECT NUMBER

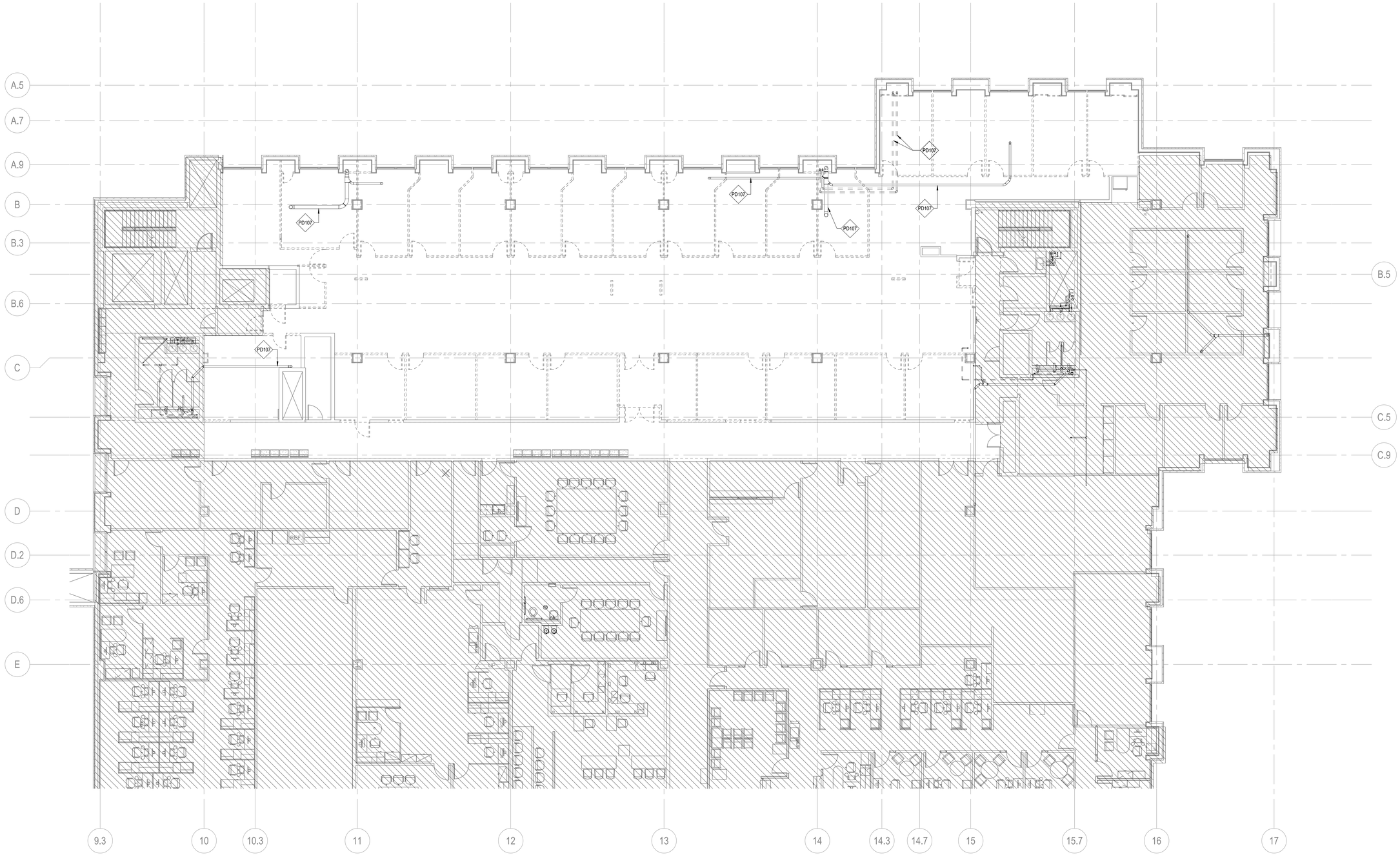
CD

SHEET NUMBER

1.P.001

Author

Plot Date: 4/12/2021 1:45:08 PM



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SCHEMATIC DESIGN		01/22/2021

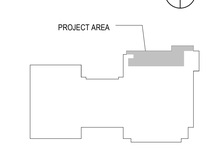
SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

PROJECT AREA



GENERAL SHEET NOTES

A. SEE DRAWING P0001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
B. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES. THE SLOPE OF A HORIZONTAL DRAINAGE PIPE SHALL BE NOT LESS THAN THAT INDICATED IN TABLE 704.1 OF 2018 INTERNATIONAL PLUMBING CODE.
C. ALL FLOOR DRAINS ARE REQUIRED TO HAVE TRAP PRIMERS.
D. PLASTIC SANITARY AND VENT PIPE SHALL NOT BE USED ABOVE GRADE.
E. ALL HORIZONTAL DRAINS SHALL BE PROVIDED WITH CLEANOUTS LOCATED NOT MORE THAN 100 FEET APART.

SHEET KEYNOTES

PD107 (E) PIPE TO REMAIN.

SHEET TITLE

FOURTH LEVEL PLUMBING DEMOLITION PLAN

Project Number

PROJECT NUMBER

CD

SHEET NUMBER

1.PD.204

Author

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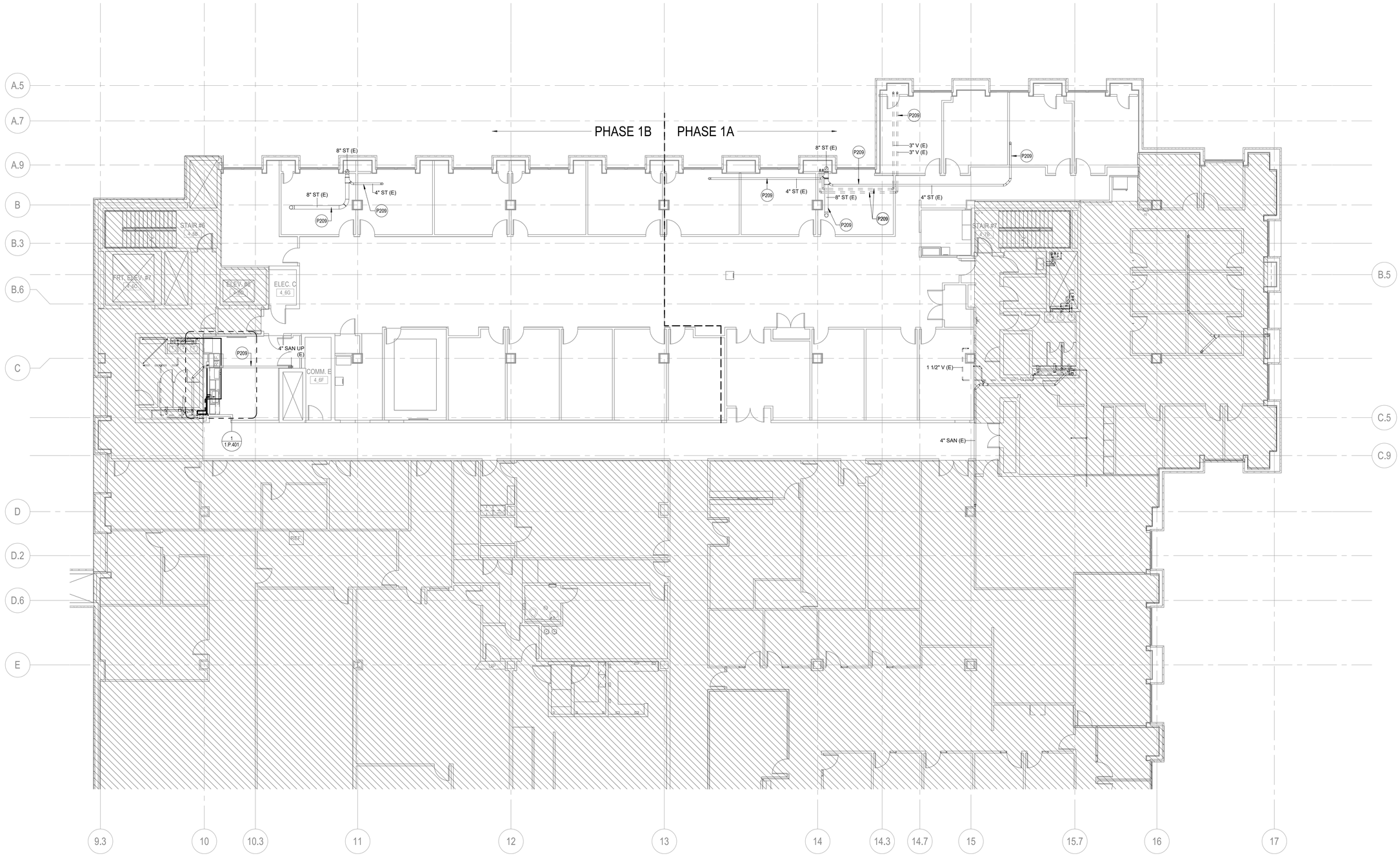

GENERAL SHEET NOTES

A. SEE DRAWING P0001 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
B. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES. THE SLOPE OF A HORIZONTAL DRAINAGE PIPE SHALL BE NOT LESS THAN THAT INDICATED IN TABLE 704.1 OF 2018 INTERNATIONAL PLUMBING CODE.
C. ALL FLOOR DRAINS ARE REQUIRED TO HAVE TRAP PRIMERS.
D. PLASTIC SANITARY AND VENT PIPE SHALL NOT BE USED ABOVE GRADE.
E. ALL HORIZONTAL DRAINS SHALL BE PROVIDED WITH CLEANOUTS LOCATED NOT MORE THAN 100 FEET APART

SHEET KEYNOTES

P209	(E) PIPE ABOVE CEILING TO REMAIN.

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DESIGN DEVELOPMENT		03/26/2021
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE

FOURTH LEVEL PLUMBING PLAN COMPLETION

Project Number

PROJECT NUMBER

CD

SHEET NUMBER

1.P.204

Author

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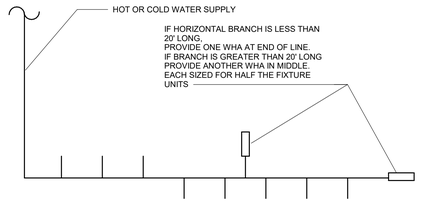
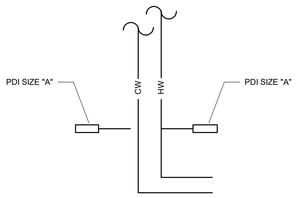


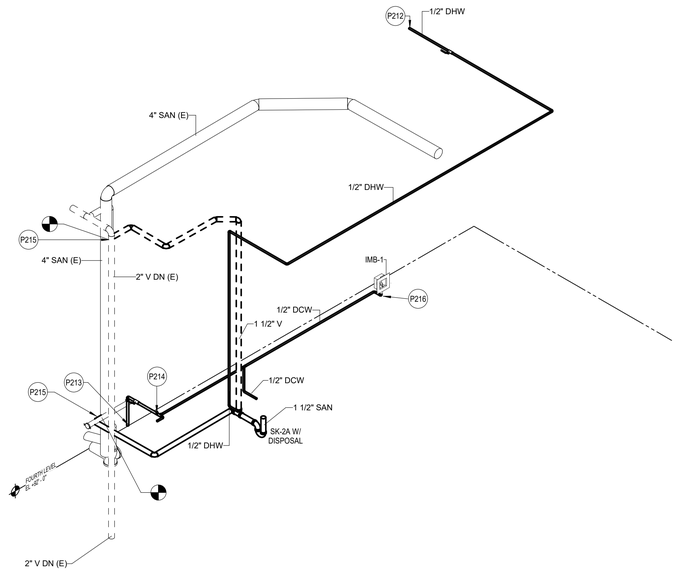
MULTIPLE FIXTURES



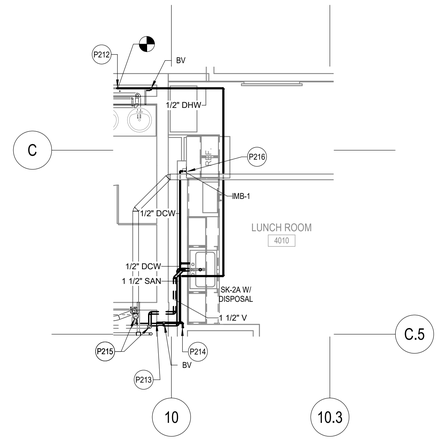
SINGLE FIXTURE

PLUMBING CONTRACTOR TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26. 1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLE SHOWN ABOVE. SIZING CHARTS ARE BASED ON SIOUX CHIEF. USE SPECIFIC MANUFACTURERS SIZING CHARTS.

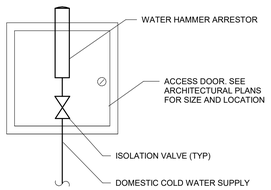
3 PLUMBING SHOCK ABSORBER DETAIL (1)
SCALE: 1" = 1'-0"



2 4TH FLOOR LUNCH ROOM - 4010 PLUMBING RISER
SCALE:



1 FOURTH LEVEL - PERMIT 1 - ENLARGED PLAN
SCALE: 1/4" = 1'-0"



NOTE: MOUNT ALL COMPONENTS FIRMLY TO P1000 UNISTRUT

4 PLUMBING WATER HAMMER DETAIL (1)
SCALE: 1/2" = 1'-0"

PLUMBING FIXTURE SCHEDULE SET-1

TAG	DESCRIPTION	SERVICE CONNECTIONS					MANUFACTURER	MODEL	FAUCET MANUFACTURER	FAUCET MODEL	REMARKS
		HOT WATER	COLD WATER	TRAP	WASTE PIPE	VENT PIPE					
IMB-1	SUPPLY VALVES RECESSED		1/2"				OATEY	39140			
SK-2A W/ DISPOSAL	SINK (KITCHEN) W/ DISPOSER	1/2"	1/2"	1 1/2"	2"	1 1/2"	ELKAY	GECR2521 SERIES	ELKAY	LK1001 (WITH SPRAY)	USE MODEL # GECR2521 R (4 DRILLED HOLES) WITH INSINKERATOR EVOLUTION SERIES-EVOLUTION COMPACT GARBAGE DISPOSAL

SHEET KEYNOTES

P212	CONNECT TO EXISTING DHW IN THE BATHROOM. PROVIDE A SHUTOFF VALVE.
P213	CONNECT TO EXISTING DCW IN THE BATHROOM CHASE.
P214	CAP OFF FOR FUTURE CONNECTION.
P215	CONNECT NEW SAN AND VENT PIPE TO EXISTING SYSTEM WITHIN RESTROOM CHASE.
P216	1/2" DCW TO REF. PROVIDE ICE MAKER BOX OATEY 39140.

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SEALS AND SIGNATURES

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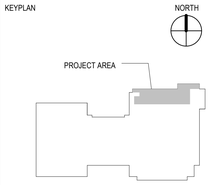
KEYPLAN



SHEET TITLE
PLUMBING ENLARGED PLAN - RISER & DETAILS

Project Number
PROJECT NUMBER
CD

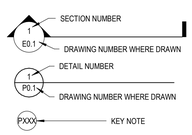
SHEET NUMBER
1.P.401

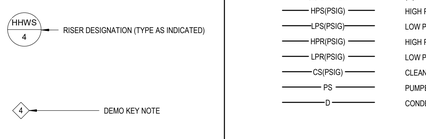
Author
Plot Date: 4/12/2021 1:45:13 PM

MECHANICAL ABBREVIATIONS

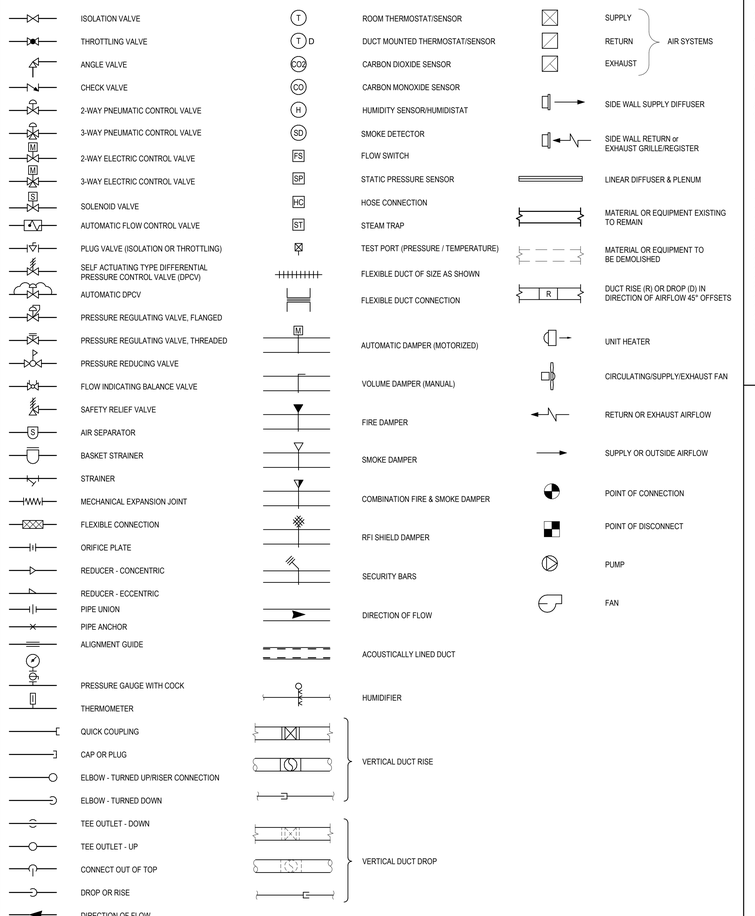
A	
AC	AIR CONDITIONING
ACB	ACTIVE CHILLED BEAM
ACC	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
ACFM	ABSOLUTE CUBIC FEET PER MINUTE
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFM	AIRFLOW MEASURING DEVICE
AFMS	AIRFLOW MEASURING STATION
AHU	AIR HANDLING UNIT
AMB	AMBIENT
AP	ACCESS PANEL
APPROX	APPROXIMATE
AS	AIR SEPARATOR
B	
B	BOILER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU(H)	BRITISH THERMAL UNIT (PER HOUR)
C	
CAP	CAPACITY
CC	COOLING COIL
CDSR	CONDENSER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CI	CAST IRON
COMP	COMPRESSOR
COND	CONDENSATE
CONT	CONTINUATION
CP	CONDENSATE PUMP
CS	CLEAN STEAM
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME/CONTROL VALVE
CW	COLD WATER
D	
D&T	DRIP & TRAP
DB	DECIBELS
DBA	DECIBELS (A-WEIGHTED SCALE)
DBT	DRY BULB TEMPERATURE °F
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DPS	DIFFERENTIAL PRESSURE SENSOR
DPT	DEW POINT TEMPERATURE °F
DWG	DRAWING
DX	DIRECT EXPANSION
E	
(E)	EXISTING
EA	EACH/EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	ETHYLENE GLYCOL WATER SOLUTION
EL	ELEVATION
ELEC	ELECTRICAL
ENT	ENTERING
EQ	EQUIVALENT
ERU	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EV	EXHAUST VALVE
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERAL
F	
F	FAHRENHEIT FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FH	FUME HOOD
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE CONNECTION
FLR	FLOOR
FM	FLOW METER
FPM	FEET PER MINUTE
FS	FLOW SWITCH
FSD	FIRE & SMOKE DAMPER
FT	FEET or FOOT
FTR	FIN TUBE RADIATION
G	
G	GLYCOL
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	
H	HEIGHT
HB	HOSE BIBB
HC	HEATING COIL
HEX	HEAT EXCHANGER
HG	MERCURY
HO	HUB OUTLET
HP	HORSE POWER
HR	HOUR
HUM	HUMIDIFEIR
HZ	HERTZ
I	
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IFB	INTEGRAL FACE AND BY-PASS
IN	INCHES
IPLV	INTEGRATED PART LOAD VALUE
K	
kW	KILOWATTS
KWH	KILOWATT HOURS
L	
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LBS/HR	POUNDS PER HOUR
LEF	LAB EXHAUST FAN
LP	LOW POINT
LRA	LOCKED ROTOR AMPERES
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
M	
MAX	MAXIMUM
MBH	1000 BTU/HR
MCA	MAXIMUM CURRENT AMPACITY
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTG	MOUNTING
N	
(NRL)	NEW LOCATION OF RELOCATED MATERIAL OR EQUIPMENT
N.C	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NPLV	NON STANDARD PART LOAD VALUE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
O	
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OD	OUTSIDE DIAMETER
OPR	OPERATING
OV	OUTLET VELOCITY
P	
P	PUMP
PCB	PASSIVE CHILLED BEAM
PD	PRESSURE DROP (FEET OF WATER)
PG	PROPYLENE GLYCOL WATER SOLUTION
PH	PHASE
PRESS	PRESSURE
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH - GAUGE
Q	
QTY	QUANTITY
R	
(RL)	RELOCATED MATERIAL OR EQUIPMENT
RA	RETURN/RELIEF AIR
RC	ROOF CONDUCTOR
RE	REFERENCE
RET	RETURN
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
S	
SA	SUPPLY AIR
SA	SHOCK ABSORBER
SA	SOUND ATTENUATOR
SAN	SANITARY WASTE
SCFM	STANDARD CUBIC FEET PER MINUTE
SD	SMOKE DAMPER/SMOKE DETECTOR
SD	SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SENS	SENSIBLE
SF	SQUARE FEET
SG	SPECIFIC GRAVITY
SL	SOUND LINING
SP	STATIC PRESSUR (INCHES OF WATER)
SPD	SPEED
SPL	SOUND POWER LEVEL
SPS	STATIC PRESSURE SENSOR
SS	STAINLESS STEEL
STM	STEAM
SV	SUPPLY VALVE
T	
T	TEMPERATURE
TAB	TESTING, ADJUSTING AND BALANCING
TEF	TOILET EXHAUST FAN
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TP	TOTAL PRESSURE
TYP	TYPICAL
U	
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	
V	VOLTAGE/VENT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VIFB	VERTICAL INTEGRAL FACE AND BYPASS
VTR	VENT THRU ROOF
W	
W	WATTS/WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
WMS	WIRE MESH SCREEN

REFERENCE SYMBOLS





MECHANICAL FLOOR PLAN SYMBOLS



18x6	INDICATES RECTANGULAR DUCT WITH DUCT SIZE 18 INCHES WIDE (IN PLANE OF DRAWING) AND 6 INCHES DEEP. SIZE PERTAINS TO THE ENTIRE RUN OF DUCT UNLESS OTHERWISE NOTED.
18x6~	INDICATES FLAT OVAL DUCT WITH DUCT SIZE 18 INCHES WIDE (IN PLANE OF DRAWING) AND 6 INCHES DEEP. SIZE PERTAINS TO THE ENTIRE RUN OF DUCT UNLESS OTHERWISE NOTED.
18Ø	INDICATES ROUND DUCT WITH DUCT SIZE OF 18 INCHES IN DIAMETER. SIZE PERTAINS TO THE ENTIRE RUN OF DUCT (FROM DUCT ORIGIN AT TAP TO END OF DUCT) UNLESS OTHERWISE NOTED.

HVAC PIPING LEGEND

CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RHG	REFRIGERANT HOT GAS
HHWS	HEATING HOT WATER SUPPLY
HHWR	HEATING HOT WATER RETURN
PHWS	PERIMETER HEATING WATER SUPPLY
PHWR	PERIMETER HEATING WATER RETURN
PCWS	PROCESS COOLING WATER SUPPLY
PCWR	PROCESS COOLING WATER RETURN
HTWS	HIGH TEMPERATURE WATER SUPPLY
HTWR	HIGH TEMPERATURE WATER RETURN
ERF	ENERGY RECOVERY FLUID
ATV	ATMOSPHERIC VENT (ATV)
(G)-SYSTEM	(G) PREFIX INDICATES A GLYCOL SOLUTION
HPS(PSIG)	HIGH PRESSURE STEAM
LPS(PSIG)	LOW PRESSURE STEAM
HPR(PSIG)	HIGH PRESSURE CONDENSATE RETURN
LPR(PSIG)	LOW PRESSURE CONDENSATE RETURN
CS(PSIG)	CLEAN STEAM
PS	PUMPED CONDENSATE
D	CONDENSATE DRAIN
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
FOG	FUEL OIL GAUGE
DFOR	DIESEL or TYPE 1 FUEL OIL RETURN (DFOR)
DFOS	DIESEL or TYPE 1 FUEL OIL SUPPLY (DFOS)
FOT	FUEL OIL TRANSFER (FOT)
FOPO	FUEL OIL PUMP OUT (FOPO)
BFW	BOILER FEED WATER
BFWR	BOILER FEED WATER RETURN
CBD	CONTINUOUS BLOWDOWN
FW	FEED WATER PUMP DISCHARGE
BBO	BOILER BLOWOFF
FWS	FEEDWATER SAMPLE
BWS	BOILER WATER SAMPLE
CF	CHEMICAL FEED
BBD	BOILER BOTTOM BLOWDOWN
SA	SUPPLY AIR
RA	RETURN AIR
TE	TOILET EXHAUST
GE	GENERAL EXHAUST
FHE	FUME HOOD EXHAUST
PHE	PERCHLORIC HOOD EXHAUST
RHE	RADIATION HOOD EXHAUST
BCSE	BIOSAFETY CABINET EXHAUST
ETOE	ETHELYNE OXIDE EXHAUST
KHE	KITCHEN HOOD EXHAUST

MECHANICAL GENERAL NOTES

1. INSTALL ALL WORK IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE 2015 AND THE REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
2. TO OBTAIN ALL CONSTRUCTION INFORMATION, ALL SPECIFICATION AND DRAWINGS (E.G. ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION) MUST BE USED.
3. BRING TO THE ATTENTION OF THE ARCHITECT/ENGINEER ANY INFORMATIONAL CONFLICTS WITHIN THE SPECIFICATIONS AND DRAWINGS. THE CONTRACTOR(S) SHALL NOT PROCEED WITH ANY WORK, EXCEPT AT ITS OWN RISK, UNTIL ALL CONFLICTS ARE RESOLVED AND THE CLARIFYING INFORMATION IS ISSUED TO THE CONTRACTOR(S) BY THE ARCHITECT/ENGINEER.
4. PROVIDE OFFSETS AND TRANSITIONS IN DUCTWORK AND PIPING AS REQUIRED TO AVOID INTERFERENCE AT NO ADDITIONAL COST TO THE OWNER. THOUGH SOME OFFSETS & TRANSITIONS ARE SHOWN IN PIPING & SHEET METAL TO HELP INDICATE THE PHYSICAL RELATIONSHIP BETWEEN THEM, IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL PIPING & SHEET METAL OFFSETS & TRANSITIONS REQUIRED. THE CONTRACTOR SHALL FULLY COORDINATE THE MECHANICAL WORK WITHIN ITSELF & WITH THE WORK OF ALL TRADES TO PROVIDE COMPLETE & OPERABLE SYSTEMS WITHOUT INTERFERENCES.
5. INSTALL ALL EQUIPMENT LEVEL AND PLUMB. PROVIDE BLOCKING AND HARDWARE AS REQUIRED.
6. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF WORK. PROVIDE TRANSITIONS AND MAKE FINAL CONNECTIONS TO EQUIPMENT, UNLESS OTHERWISE INDICATED.
7. INSTALL ALL EQUIPMENT REQUIRING PERIODIC SERVICE NOT LESS THAN 10 FEET FROM ROOF EDGE OR OPENING, UNLESS PROTECTIVE RAILING OR PARAPET OF 42 INCHES AFF. HAS BEEN PROVIDED. VERIFY WITH OTHER TRADES TO CONFIRM IF PROTECTIVE RAILING OR PARAPET OF 42 INCHES AFF IS PROVIDED.
8. CONCENTRATE LOADS AT JOIST AND/OR BEAM LOCATIONS. WHERE CONCENTRATED LOADS DUE TO EQUIPMENT, RISERS, OR SPECIAL DUCT CONSTRUCTION OCCUR AT OTHER LOCATIONS, PROVIDE ADDITIONAL SUPPORT FRAMING AND/OR ANGLE BRACING.
9. DUCT CONSTRUCTION SHALL COMPLY WITH THE LATEST VERSION OF SMACNA CONSTRUCTION STANDARDS FOR THE SPECIFIC PRESSURE CLASSIFICATIONS INDICATED BELOW. ALL 90 DEGREE ELBOWS SHALL BE LONG RADIUS TYPE UNLESS SPACE IS LIMITED. SHORT RADIUS AND RECTANGULAR ELBOWS SHALL HAVE TURNING VANES. UNLESS OTHERWISE NOTED FOR BRANCH CONNECTIONS, PROVIDE CONICAL TAPS FOR ROUND DUCTS AND 45 DEGREE TAPS FOR RECTANGULAR DUCTS.
10. FLEXIBLE DUCTWORK SHALL NOT BE USED IN RETURN OR EXHAUST DUCT SYSTEM. FLEXIBLE DUCTWORK MAY BE USED IN THE SUPPLY SYSTEM PROVIDED THE LENGTH IS LIMITED TO A TOTAL LENGTH OF FIVE (5) FEET.
11. INSTALL DUCTWORK AS CLOSE AS POSSIBLE TO UNDERSIDE OF BEAMS AND/OR JOISTS.
12. ALL DUCTWORK SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
13. PROVIDE DUCTWORK TO TERMINAL AIR DEVICES AT SCHEDULED INLET SIZE UNLESS OTHERWISE INDICATED.
14. PROVIDE DUCTWORK FROM TERMINAL AIR BOXES AT MANUFACTURER'S OUTLET DIMENSION SIZE UNLESS OTHERWISE INDICATED. PROVIDE TRANSITIONS AS REQUIRED.
15. DUCTWORK PENETRATIONS OF ALL FIRE RATED AND SMOKE RESISTIVE CONSTRUCTION. COORDINATE WITH LIFE SAFETY PLANS FOR LOCATIONS. PENETRATION ASSEMBLY TO BE U.L. LISTED.
16. PAINT FLAT BLACK THE INSIDE OF ALL DUCTWORK VISIBLE THROUGH DIFFUSERS, GRILLES AND REGISTERS.
17. PROVIDE OPEN END DUCTWORK (OED) WITH 2X2 MESH (1/2"X 1/2") ALUMINUM SCREEN WITH REMOVABLE FRAMES.
18. FURNISH AND INSTALL ALL MANUALLY OPERATED VOLUME CONTROL (BALANCING) DAMPERS NECESSARY TO PERFORM THE BALANCING WORK, AT EACH BRANCH TAKEOFF. AT EACH AIR TERMINAL DEVICE AND WHERE INDICATED.
19. DUCT SYSTEMS SHALL BE BALANCED TO AIRFLOWS INDICATED ON DRAWINGS. FANS SHALL BE FIELD TESTED TO ENSURE COMPLIANCE WITH SCHEDULED FAN PERFORMANCE AND SCHEDULED AIRFLOW AT THE DESIGN STATIC PRESSURES LISTED.
20. PROVIDE FLEXIBLE CONNECTIONS BETWEEN DUCTWORK AND ALL FANS AND ALL AIR HANDLING EQUIPMENT.
21. COORDINATE EXACT LOCATION OF DIFFUSERS, GRILLES AND REGISTERS WITH THE REFLECTED CEILING PLANS BEFORE INSTALLATION. PROVIDE SYMMETRY WITH THE ROOM LIGHTING SYSTEMS.
22. VERIFY DIFFUSER, GRILLE AND REGISTER MOUNTING FRAME TYPES WITH THE CEILING TYPES. PROVIDE FRAME TYPE THAT MATCHES CEILING CONFIGURATION.
23. PROVIDE CONCRETE HOUSEKEEPING PADS FOR FLOOR MOUNTED MECHANICAL EQUIPMENT. COORDINATE SIZE AND LOCATION WITH ALL TRADES.
24. PROVIDE ACCESS DOORS AND/OR PANELS FOR DUCT MOUNTED FIRE, SMOKE, AND FIRE/SMOKE DAMPERS AND SMOKE DETECTORS.
25. PROVIDE ACCESS DOORS AND/OR PANELS IN HARD CEILINGS AND WALLS TO PERMIT SERVICE TO DAMPERS, VALVES, AND CONCEALED EQUIPMENT.
26. REFER TO ARCHITECTURAL GENERAL INFORMATION SHEETS FOR MOUNTING HEIGHTS OF DEVICES. WHERE THIS INFORMATION IS NOT PROVIDED, MOUNT ROOM THERMOSTATS AT 48 INCHES AFF AND OCCUPANCY SENSORS AT 84 INCHES AFF UNLESS OTHERWISE INDICATED.
27. COORDINATE ALL WALL MOUNTED DEVICES SUCH AS THERMOSTATS AND CONTROL PANELS WITH ARCHITECTURAL INTERIOR ELEVATIONS.
28. COORDINATE ALL DOOR UNDER CUTS INDICATED AND AS REQUIRED WHERE RETURN/TRANSFER OPENS ARE NOT PROVIDED.
29. WHERE SIZE OF MOTORIZED DAMPER EXCEEDS THE LIMITS OF A SINGLE OPERATOR, PROVIDE MULTIPLE OPERATORS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
30. PROVIDE RUNOUT PIPING AS SCHEDULED OR AS OTHERWISE INDICATED.
31. ALL DUCTWORK AND PLENUMS TO MATCH EXISTING SEAL CLASS, LEAKAGE CLASS, AND PRESSURE CLASSIFICATION.

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SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE

MECHANICAL ABBREVIATIONS AND SYMBOLS

Project Number

PROJECT NUMBER

CD

1.M.001

SHEET NUMBER

Author

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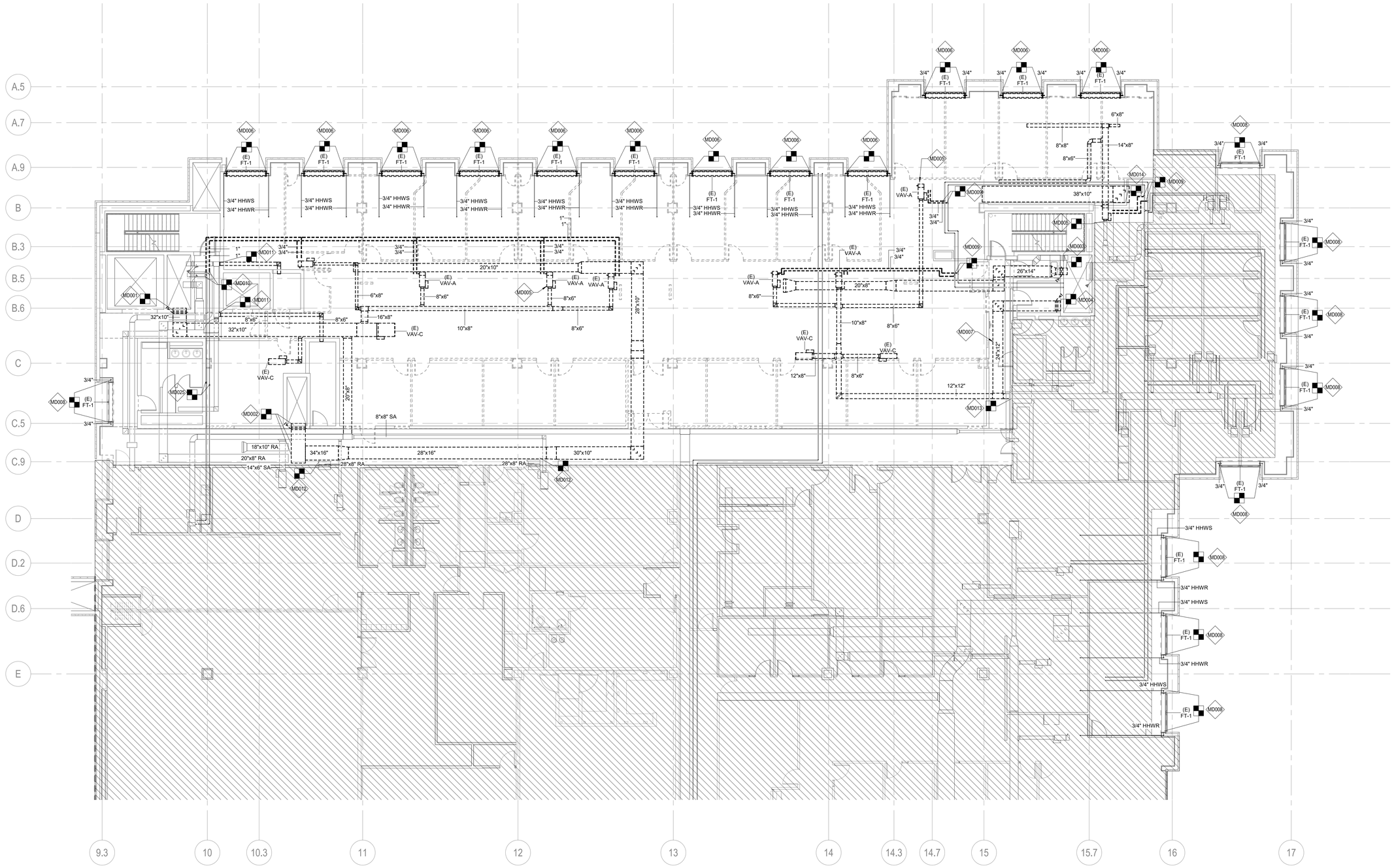

GENERAL SHEET NOTES

A. REFER TO SHEET M0001 FOR MECHANICAL ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES.
B. THE EXISTING CONDITIONS INDICATED ARE BASED ON THE ORIGINAL DESIGN DRAWINGS AND A SITE SURVEY. SLIGHT VARIATIONS IN ACTUAL INSTALLATION MAY BE ENCOUTNERED DURING CONSTRUCTION.
C. CLOSELY INSPECT EXISTING DUCT MAINS FOR DUCT LEAKAGE AND DAMAGE TO INSULATION. APPLY PLENUM APPROVED SEALANT TO DUCT JOINTS AND SEAMS WHERE LEAKAGE OCCURS.
D. CONTRACTOR SHALL VERIFY PROPER OPERATION OF ALL EXISTING EQUIPMENT IN AREA AFFECTED BY THIS WORK PRIOR TO CONSTRUCTION. WHERE DEFICIENCIES OCCUR, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE BUILDING OWNER.
E. CONTRACTOR SHALL PROVIDE PRE-FILTER MEDIA FOR ALL AIR HANDLING UNITS SERVING AREA UNDER CONSTRUCTION. RENEW ALL FILTERS AS REQUIRED DURING THE COMPLETION OF WORK. AT THE END OF CONSTRUCTION, CONTRACTOR SHALL REMOVE ALL PRE-FILTER MEDIA AND REPLACE ANY PERMANENT FILTER WITH NEW, CLEAN, FRESH MEDIA.
F. CLEAN ALL AIR DEVICES PRIOR TO RELOCATION.
G. PROVIDE BOWDEN CABLE REMOTE DAMPER OPERATOR FOR ANY DIFFUSER THAT HAS AN INACCESSIBLE DAMPER. ADJUSTMENT SHALL BE LOCATED IN CEILING PLENUM AND BE ACCESSIBLE FROM ACT CEILING.
H. PROVIDE NEW FLEXIBLE DUCTWORK FOR ALL RELOCATED OR SHIFTED SUPPLY AIR DEVICES.
I. PROVIDE VOLUME DAMPERS FOR ALL NEW DUCT TAPS.
J. PRIOR TO COMMENCING ANY DEMOLITION OR NEW WORK, PERFORM COMPLETE TESTING AND AIR BALANCING WORK ON AFFECTED SYSTEMS

○ SHEET KEYNOTES

MD001	DEMO EXISTING 32"X10" MAIN DUCTWORK TO SHAFT. KEEP AREA OUT OF SCOPE SERVED BY MAIN OPERATIONAL. ANY NECESSARY SHUTDOWN TO BE COORDINATED WITH DC COURTS.
MD002	DEMO EXISTING 34"X16" MAIN RETURN DUCTWORK TO SHAFT. KEEP AREA OUT OF SCOPE SERVED BY MAIN OPERATIONAL. ANY NECESSARY SHUTDOWN TO BE COORDINATED WITH DC COURTS.
MD003	DEMO EXISTING 16"X10" MAIN RETURN DUCTWORK TO SHAFT.
MD004	DEMO EXISTING 24"X12" MAIN SUPPLY DUCTWORK TO SHAFT. KEEP AREA OUT OF SCOPE SERVED BY MAIN OPERATIONAL ANY NECESSARY SHUTDOWN TO BE COORDINATED WITH DC COURTS.
MD005	DISCONNECT AND REMOVE EXISTING VAV BOX AND ASSOCIATED ACCESSORIES BACK TO POINT OF DISCONNECTION. TYPICAL THROUGHOUT.
MD006	DISCONNECT AND REMOVE EXISTING FIN TUBE RADIATOR AND ASSOCIATED ACCESSORIES. COORDINATE WITH OWNER FOR SHUTDOWN REQUIREMENTS.
MD007	PRIOR TO COMMENCING ANY DEMOLITION OR NEW WORK, PERFORM COMPLETE TESTING AND AIR BALANCING WORK ON AFFECTED SYSTEMS.
MD008	DISCONNECT AND REMOVE SECTION OF 3/4" PIPING FOR NEW ISOLATION VALVE. COORDINATE WITH OWNER FOR SHUTDOWN REQUIREMENTS.
MD009	DISCONNECT AND REMOVE EXISTING 3/4" PIPING. CAP OPEN END.
MD010	DISCONNECT AND REMOVE EXISTING 1" PIPING. CAP OPEN END.
MD011	DISCONNECT AND REMOVE EXISTING 8"X6" EXHAUST DUCTWORK.
MD012	DISCONNECT EXISTING 28"X8" RETURN DUCTWORK. REMOVE EXISTING 28"X16" RETURN DUCTWORK.
MD013	DISCONNECT AND REMOVE EXISTING 12"X12" SUPPLY DUCTWORK. COORDINATE WITH OWNER FOR SHUTDOWN REQUIREMENTS.
MD014	DISCONNECT AND REMOVE EXISTING 38"X10" RETURN DUCTWORK.
MD025	DISCONNECT AND REMOVE EXISTING 3/4" PIPING FOR FUTURE TAP. COORDINATE WITH OWNER FOR SHUTDOWN REQUIREMENTS.

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE
MECHANICAL DEMOLITION PLAN - LEVEL 04

Project Number

PROJECT NUMBER
CD

SHEET NUMBER
1.MD204

Author

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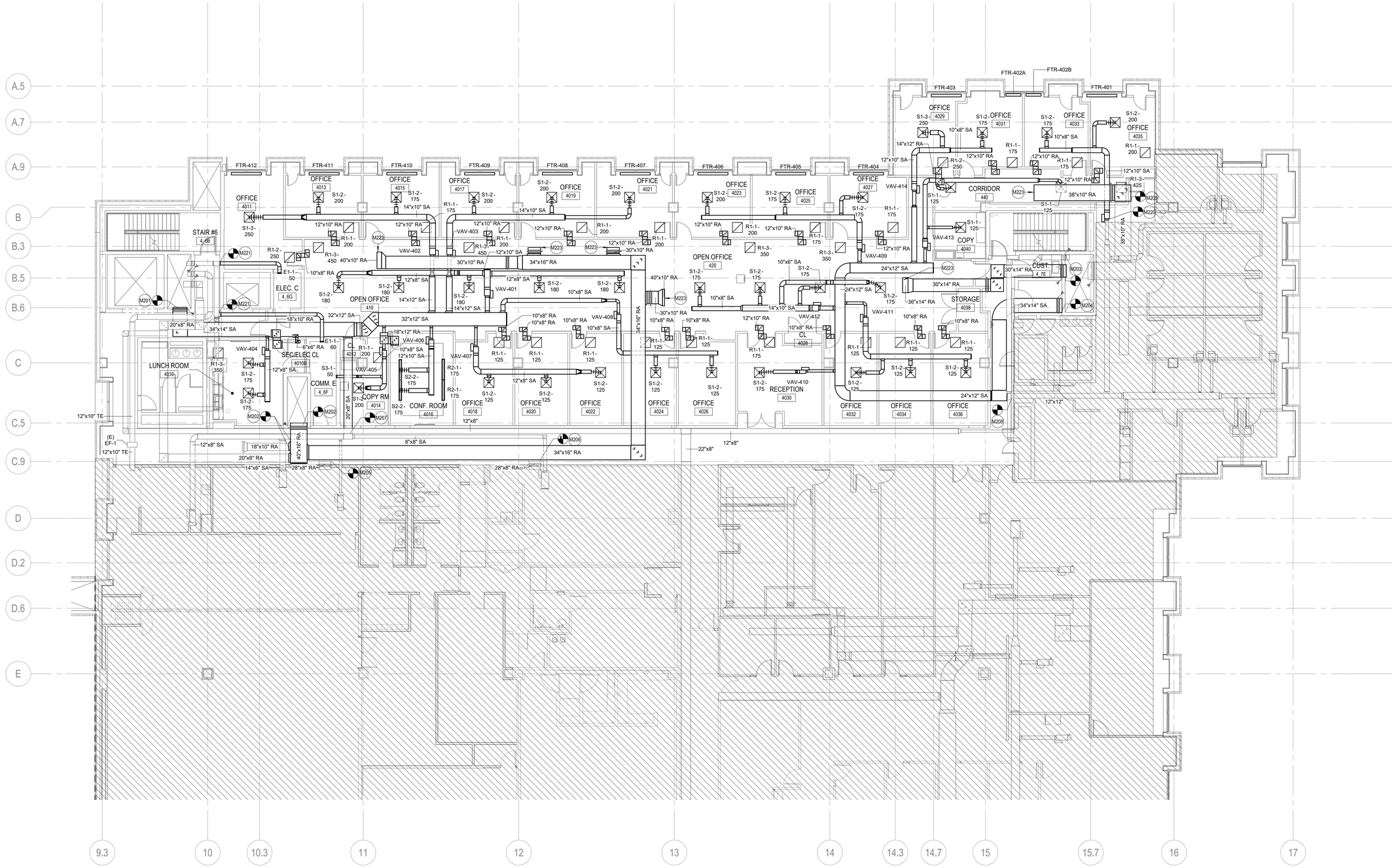

GENERAL SHEET NOTES

A. REFER TO SHEET M0001 FOR MECHANICAL ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES.
B. THE EXISTING CONDITIONS INDICATED ARE BASED ON THE ORIGINAL DESIGN DRAWINGS AND A SITE SURVEY. SLIGHT VARIATIONS IN ACTUAL INSTALLATION MAY BE ENCOUTNERED DURING CONSTRUCTION.
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G. PROVIDE BOWDEN CABLE REMOTE DAMPER OPERATOR FOR ANY DIFFUSER THAT HAS AN INACCESSIBLE DAMPER. ADJUSTMENT SHALL BE LOCATED IN CEILING PLENUM AND BE ACCESSIBLE FROM ACT CEILING.
H. PROVIDE NEW FLEXIBLE DUCTWORK FOR ALL RELOCATED OR SHIFTED SUPPLY AIR DEVICES.
I. PROVIDE VOLUME DAMPERS FOR ALL NEW DUCT TAPS.
J. PRIOR TO COMMENCING ANY DEMOLITION OR NEW WORK, PERFORM COMPLETE TESTING AND AIR BALANCING WORK ON AFFECTED SYSTEMS

○ SHEET KEYNOTES

M201	CONNECT NEW 34"X14" MAIN SUPPLY DUCTWORK TO SHAFT. KEEP AREA OUT OF SCOPE SERVED BY MAIN OPERATIONAL. ANY NECESSARY SHUTDOWN TO BE COORDINATED WITH DC COURTS.
M202	CONNECT NEW 34"X16" MAIN RETURN DUCTWORK TO SHAFT. KEEP AREA OUT OF SCOPE SERVED BY MAIN OPERATIONAL. ANY NECESSARY SHUTDOWN TO BE COORDINATED WITH DC COURTS.
M203	CONNECT NEW 30"X14" MAIN RETURN DUCTWORK TO SHAFT.
M204	CONNECT NEW 34"X14" MAIN DUCTWORK TO SHAFT. KEEP AREA OUT OF SCOPE SERVED BY MAIN OPERATIONAL. ANY NECESSARY SHUTDOWN TO BE COORDINATED WITH DC COURTS.
M205	CONNECT EXISTING 28"X8" RETURN DUCTWORK TO NEW 34"X16" DUCTWORK.
M206	CONNECT EXISTING 28"X8" RETURN DUCTWORK TO NEW 30"X16" RETURN DUCTWORK.
M207	CONNECT EXISTING 12"X8" SUPPLY DUCTWORK TO NEW 20"X8" SUPPLY DUCTWORK.
M208	CONNECT EXISTING 12"X12" SUPPLY DUCTWORK TO NEW 34"X14" SUPPLY DUCTWORK MAIN. KEEP AREA OUT OF SCOPE SERVED BY MAIN OPERATIONAL. ANY NECESSARY SHUTDOWN TO BE COORDINATED WITH DC COURTS.
M209	CONNECT EXISTING 38"X10" RETURN DUCTWORK TO NEW 38"X10" RETURN DUCTWORK.
M220	CONNECT NEW VAV-415 TO EXISTING 8"X6" SUPPLY DUCTWORK
M221	CONNECT NEW 8"X6" SUPPLY DUCTWORK TO EXISTING 12"X8" SUPPLY DUCTWORK.
M223	OPEN END DUCT WITH WIRE MESH SCREEN.

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SEALS AND SIGNATURES

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KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE
HVAC PLAN - LEVEL 04

Project Number

PROJECT NUMBER
CD

1.M.204
SHEET NUMBER

Author

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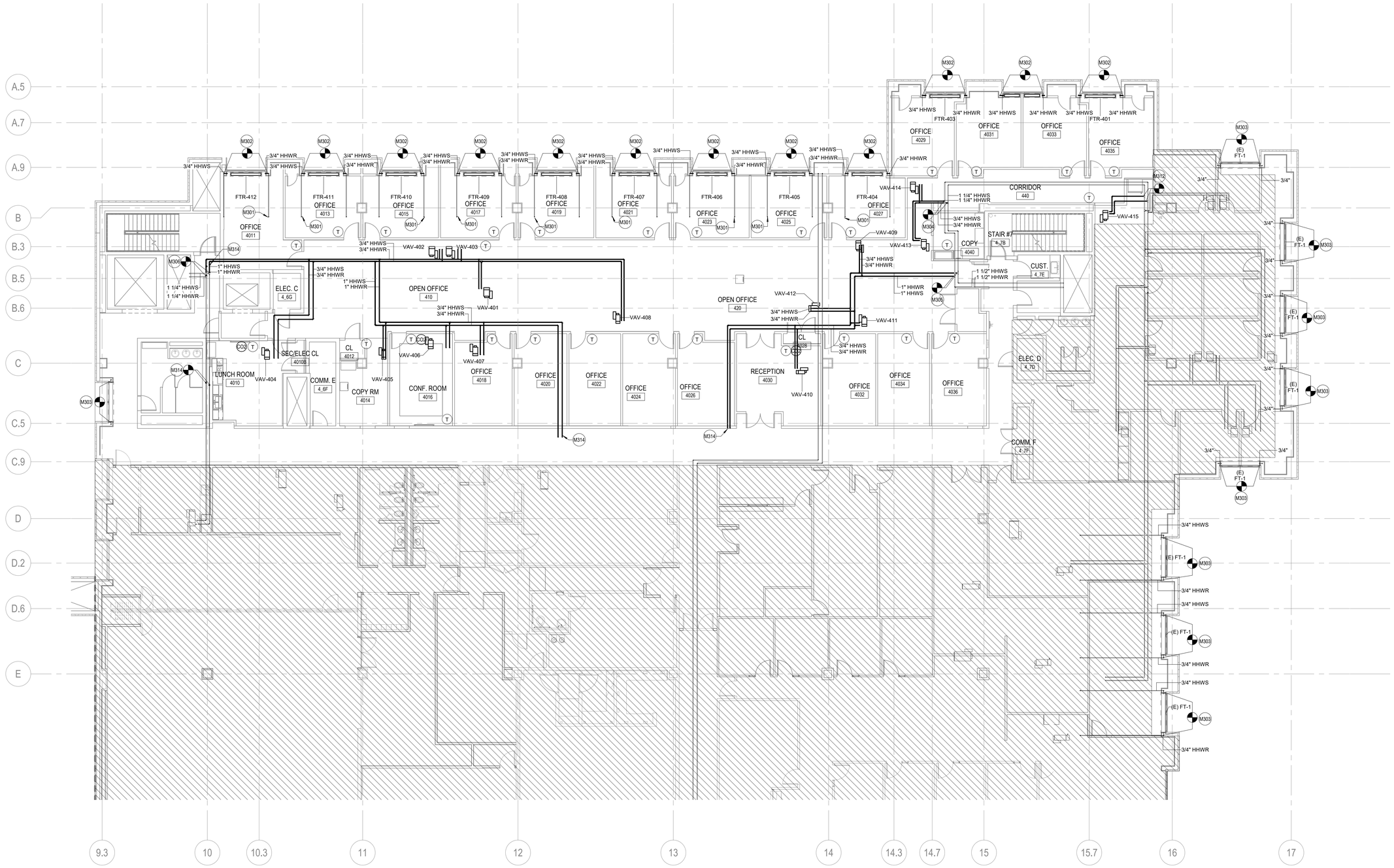

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I. PROVIDE VOLUME DAMPERS FOR ALL NEW DUCT TAPS.
J. PRIOR TO COMMENCING ANY DEMOLITION OR NEW WORK, PERFORM COMPLETE TESTING AND AIR BALANCING WORK ON AFFECTED SYSTEMS

○ SHEET KEYNOTES

M301	3/4" HEATING HOT WATER PIPING UP. TYPICAL THROUGHOUT.
M302	PROVIDE AND CONNECT NEW FIN TUBE RADIATOR AND ACCESSORIES. SEE DETAIL FOR ADDITIONAL INFORMATION. PROVIDE ARCHITECTURAL COVER TO MATCH EXISTING COVER. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
M303	PROVIDE AND CONNECT NEW ISOLATION VALVES FOR THE FIN TUBE RADIATOR. SEE DETAIL FOR ADDITIONAL INFORMATION.
M304	CONNECT NEW 3/4" HEATING HOT WATER PIPING TO EXISTING 1-1/4" HEATING HOT WATER PIPING.
M305	CONNECT NEW 3/4" HEATING HOT WATER PIPING TO EXISTING 1-1/2" HEATING HOT WATER PIPING.
M306	CONNECT NEW 1" HEATING HOT WATER PIPING TO EXISTING 1-1/4" HEATING HOT WATER PIPING.
M312	CONNECT NEW 3/4" HEATING HOT WATER PIPING TO EXISTING 1-1/4" HEATING HOT WATER PIPING.
M313	TEMPERATURE SENSOR TO TIE INTO BAS. TYPICAL THROUGHOUT.
M314	PROVIDE TAP AND CAP OPEN END FOR FUTURE USE.

Author

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KEYPLAN

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PROJECT AREA

SHEET TITLE

HVAC PIPING PLAN - LEVEL 04

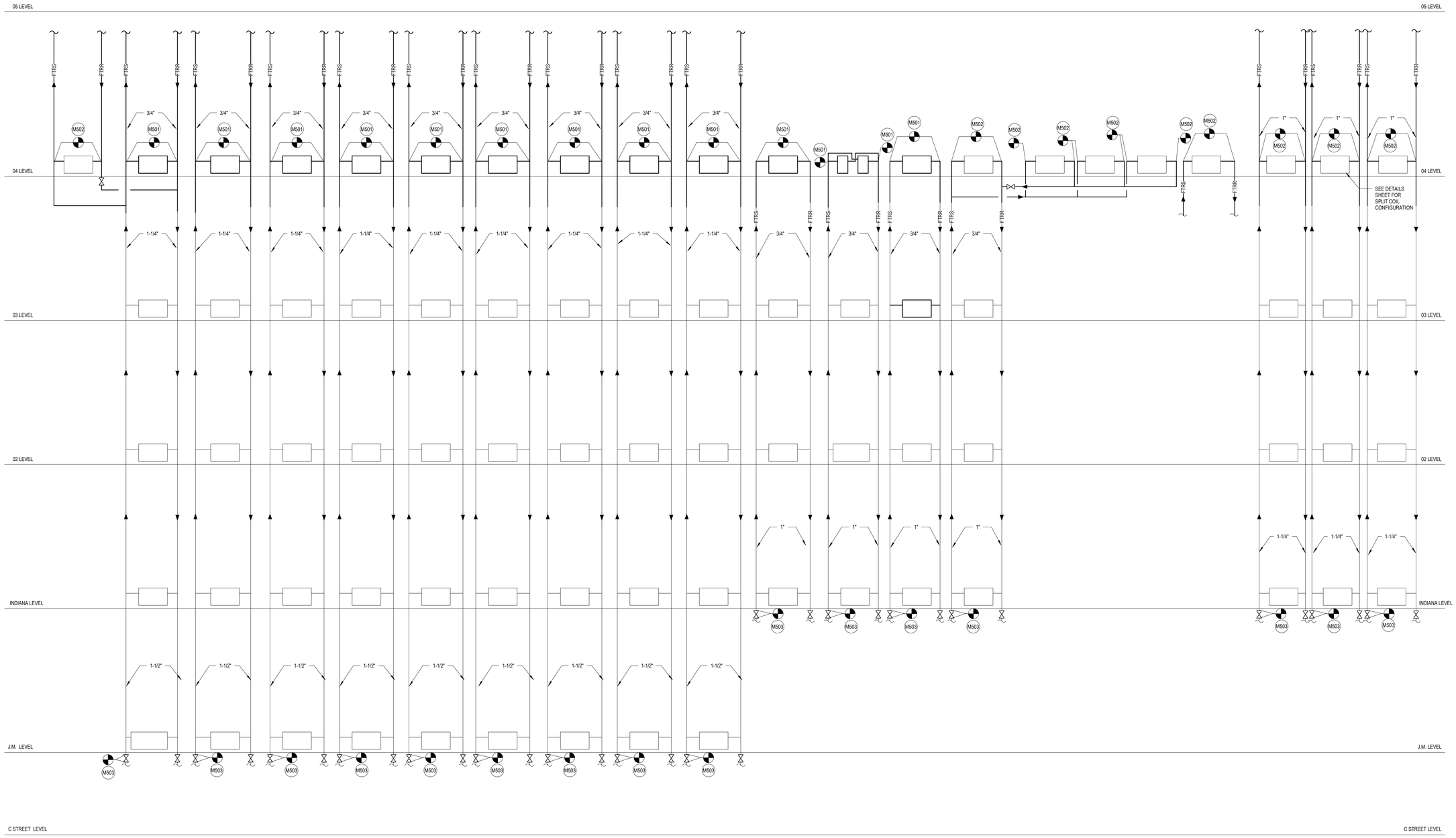
Project Number

PROJECT NUMBER

CD

SHEET NUMBER

1.M.304



SHEET KEYNOTES

M501	REPLACE EXISTING FIN TUBE RADIATOR AND ALL ASSOCIATED VALVES AND ACCESSORIES. SEE DETAILS SHEET FOR FTR VALVE LOCATIONS. ANY NECESSARY SHUTDOWN TO BE COORDINATED WITH DC COURTS.
M502	PROVIDE NEW ISOLATION VALVES. SEE DETAILS SHEET FOR FTR VALVE LOCATIONS. ANY NECESSARY SHUTDOWN TO BE COORDINATED WITH DC COURTS.
M503	PROVIDE NEW ISOLATION VALVES AT THE BASE OF EACH PERIMETER HEATING RISER. ANY NECESSARY SHUTDOWN TO BE COORDINATED WITH DC COURTS.

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SEALS AND SIGNATURES

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SHEET TITLE
FIN TUBE RADIATOR RISER DIAGRAM

Project Number
PROJECT NUMBER
CD

1.M.501
SHEET NUMBER

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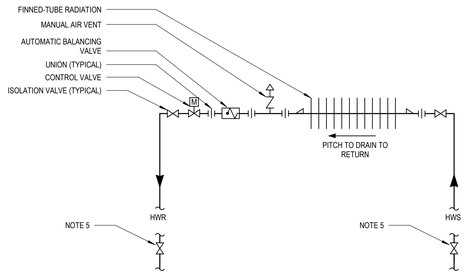
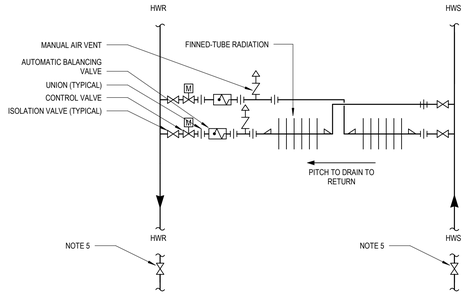


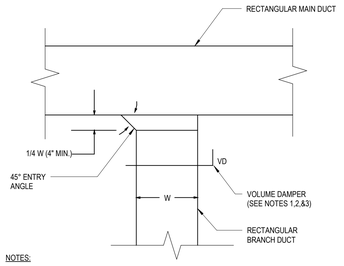
NOTES:
1. REFER TO PLANS & SPECS. FOR TYPE OF ENCLOSURE AND FOR FINTUBE RADIATION CHARACTERISTICS.
2. PROVIDE ACCESS PANELS IN ENCLOSURE ADJACENT TO VALVES & AIR VENT.
3. ALL PIPE REDUCERS SHALL BE ECCENTRIC TYPE.
4. PROVIDE SWING JOINTS ON SUPPLY & RETURN CONNECTIONS.
5. INSTALL NEW ISOLATION VALVE AT THE BOTTOM OF EACH RISER.

6 HOT WATER FINNED-TUBE RADIATION - UP FEED
SCALE: NOT TO SCALE



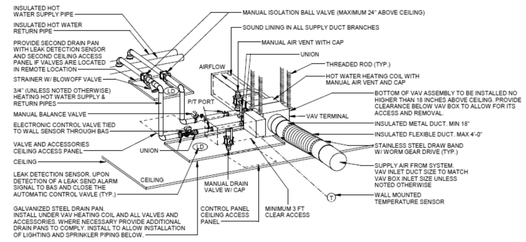
NOTES:
1. REFER TO PLANS & SPECS. FOR TYPE OF ENCLOSURE AND FOR FINTUBE RADIATION CHARACTERISTICS.
2. PROVIDE ACCESS PANELS IN ENCLOSURE ADJACENT TO VALVES & AIR VENT.
3. ALL PIPE REDUCERS SHALL BE ECCENTRIC TYPE.
4. PROVIDE SWING JOINTS ON SUPPLY & RETURN CONNECTIONS.
5. INSTALL NEW ISOLATION VALVE AT THE BOTTOM OF EACH RISER.

3 HOT WATER SPLIT FINNED-TUBE RADIATION - UP FEED
SCALE: NOT TO SCALE



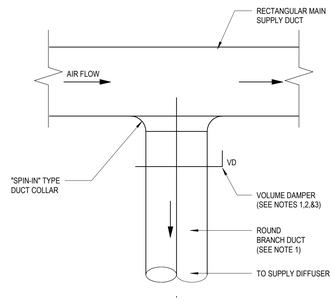
NOTES:
1. UP TO 1.5 SQ. FT. CROSS SECTIONAL AREA AND NOT EXCEEDING 24" IN WIDTH, USE SINGLE BLADE VOLUME DAMPER.
2. FOR CROSS SECTIONAL AREAS FROM 1.5 TO 3.0 SQ. FT. AND NOT EXCEEDING 24" IN WIDTH, USE 3 SINGLE BLADE VOLUME DAMPERS INDIVIDUALLY OPERATED TO FUNCTION IN AN OPPOSED MANNER.
3. FOR CROSS SECTIONAL AREAS FROM 1.5 TO 3.0 SQ. FT. AND NOT EXCEEDING 24" IN WIDTH, USE GANG OPERATED OPPOSED BLADE VOLUME DAMPER AND FRAME ASSEMBLY.

5 TYPICAL LOW PRESSURE RECTANGULAR DUCT TAKE-OFF DETAIL
SCALE: NOT TO SCALE



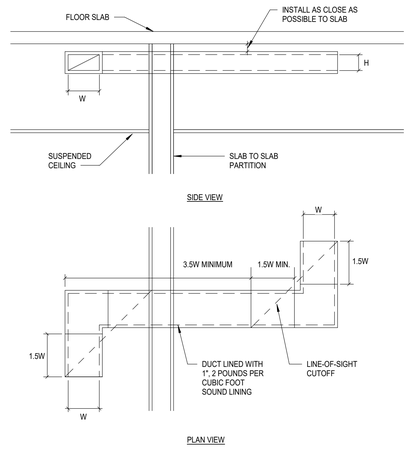
NOTES:
1. VAV BOXES TO BE LOCATED BELOW SPRINKLER PIPES, CONDUIT, ETC. FOR EASE OF ACCESS.
2. INSTALL VAV BOXES AT THE SAME ELEVATION THROUGHOUT THE BUILDING WHERE FEASIBLE.
3. VAV BOXES TO BE LOCATED AWAY FROM THE WALL, FURNITURE, AND CRITICAL AREAS FOR EASY ACCESS TO SERVICE.

2 TYPICAL VAV TERMINAL WITH HOT WATER CONNECTION
SCALE: NOT TO SCALE



NOTES:
1. MAXIMUM ROUND DUCT SIZE SHALL BE 12" ROUND
REFER TO LOW PRESSURE RECTANGULAR SUPPLY DUCT TAKE-OFF DETAIL FOR BRANCH TAKE-OFFS GREATER THAN 12" ROUND.

4 TYPICAL LOW PRESSURE RECTANGULAR TO ROUND DUCT TAKE-OFF DETAIL
SCALE: NOT TO SCALE



NOTE:
REFER TO THE DRAWINGS FOR THE EXACT LOCATION OF THE RETURN AIR DUCT/SLAB TO SLAB PARTITION INTERFACE

1 TRANSFER AIR DUCT
SCALE: NOT TO SCALE

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SEALS AND SIGNATURES

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SHEET TITLE
MECHANICAL DETAILS

Project Number
PROJECT NUMBER
CD 1.M.601
SHEET NUMBER

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VOLUME CONTROL BOX SCHEDULE

TAG	INLET SIZE	AIRSIDE DATA					REHEAT COIL DATA							BASIS OF DESIGN		REMARKS
		MIN AIRFLOW [CFM]	MAX AIRFLOW [CFM]	HEATING AIRFLOW [CFM]	MAX AIR PD [IN.WG.]	MIN INLET SP [IN.WG.]	EAT [°F]	LAT [°F]	EWT [°F]	LWT [°F]	FLOW [GPM]	SENSIBLE CAPACITY [BTUH]	MAX WATER PD [FTH20]	MANUFACTURER	MODEL	
VAV-401	10	270	900	585	0.10	1.00	55	85	160	140	1.90	18954	5.00	TRANE	VCW	
VAV-402	8	160	625	160	0.10	1.00	55	72	160	140	0.29	2938	5.00	TRANE	VCW	
VAV-403	8	150	600	150	0.10	1.00	55	72	160	140	0.28	2754	5.00	TRANE	VCW	
VAV-404	6	90	350	145	0.10	1.00	55	85	160	140	0.47	4698	5.00	TRANE	VCW	
VAV-405	6	50	250	85	0.10	1.00	55	85	160	140	0.28	2754	5.00	TRANE	VCW	
VAV-406	6	105	350	105	0.10	1.00	55	84	160	140	0.33	3332	5.00	TRANE	VCW	
VAV-407	6	115	375	270	0.10	1.00	55	85	160	140	0.87	8748	5.00	TRANE	VCW	
VAV-408	6	75	250	180	0.10	1.00	55	85	160	140	0.58	5832	5.00	TRANE	VCW	
VAV-409	8	165	550	165	0.10	1.00	55	72	160	140	0.30	3029	5.00	TRANE	VCW	
VAV-410	6	55	175	120	0.10	1.00	55	85	160	140	0.39	3888	5.00	TRANE	VCW	
VAV-411	6	115	375	285	0.10	1.00	55	85	160	140	0.92	9234	5.00	TRANE	VCW	
VAV-412	10	210	700	415	0.10	1.00	55	85	160	140	1.34	13446	5.00	TRANE	VCW	
VAV-413	6	95	375	330	0.10	1.00	55	85	160	140	1.07	10692	5.00	TRANE	VCW	
VAV-414	8	130	425	130	0.10	1.00	55	72	160	140	0.24	2387	5.00	TRANE	VCW	

FIN TUBE RADIATION SCHEDULE

TAG	TUBE SIZE	FIN SIZE	FINS PER INCH	ENCLOSURE				CAPACITY / FT [BTU/HR]	ACTIVE LENGTH	FLOW [GPM]	AVERAGE WATER TEMPERATURE [°F]	EAT [°F]	NUMBER OF ROWS		BASIS OF DESIGN		REMARKS
				TYPE	WIDTH	HEIGHT	LENGTH						HORIZONTAL	VERTICAL	MANUFACTURER	MODEL	
FTR-401	3/4"	4' - 0 1/4"	50	TOP OUTLET	0' - 6"	1' - 6"	7' - 9"	790	6' - 0"	1.0	150	70	1	1	STERLING	JVB-T	
FTR-402A	3/4"	4' - 0 1/4"	50	TOP OUTLET	0' - 6"	1' - 6"	3' - 5"	790	3' - 0"	1.0	150	70	1	1	STERLING	JVB-T	
FTR-402B	3/4"	4' - 0 1/4"	50	TOP OUTLET	0' - 6"	1' - 6"	3' - 5"	790	3' - 0"	1.0	150	70	1	1	STERLING	JVB-T	
FTR-403	3/4"	4' - 0 1/4"	50	TOP OUTLET	0' - 6"	1' - 6"	7' - 9"	790	6' - 0"	1.0	150	70	1	1	STERLING	JVB-T	
FTR-404	3/4"	4' - 0 1/4"	50	TOP OUTLET	0' - 6"	1' - 6"	7' - 9"	790	6' - 0"	1.0	150	70	1	1	STERLING	JVB-T	
FTR-405	3/4"	4' - 0 1/4"	50	TOP OUTLET	0' - 6"	1' - 6"	7' - 9"	790	6' - 0"	1.0	150	70	1	1	STERLING	JVB-T	
FTR-406	3/4"	4' - 0 1/4"	50	TOP OUTLET	0' - 6"	1' - 6"	7' - 9"	790	6' - 0"	1.0	150	70	1	1	STERLING	JVB-T	
FTR-407	3/4"	4' - 0 1/4"	50	TOP OUTLET	0' - 6"	1' - 6"	7' - 9"	790	6' - 0"	1.0	150	70	1	1	STERLING	JVB-T	
FTR-408	3/4"	4' - 0 1/4"	50	TOP OUTLET	0' - 6"	1' - 6"	7' - 9"	790	6' - 0"	1.0	150	70	1	1	STERLING	JVB-T	
FTR-409	3/4"	4' - 0 1/4"	50	TOP OUTLET	0' - 6"	1' - 6"	7' - 9"	790	6' - 0"	1.0	150	70	1	1	STERLING	JVB-T	
FTR-410	3/4"	4' - 0 1/4"	50	TOP OUTLET	0' - 6"	1' - 6"	7' - 9"	790	6' - 0"	1.0	150	70	1	1	STERLING	JVB-T	
FTR-411	3/4"	4' - 0 1/4"	50	TOP OUTLET	0' - 6"	1' - 6"	7' - 9"	790	6' - 0"	1.0	150	70	1	1	STERLING	JVB-T	
FTR-412	3/4"	4' - 0 1/4"	50	TOP OUTLET	0' - 6"	1' - 6"	7' - 9"	790	6' - 0"	1.0	150	70	1	1	STERLING	JVB-T	

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

TAG	TYPE	CFM RANGE	FACE SIZE	NECK SIZE	LINEAR DIFFUSER DATA			MAX AIR PD [IN-WG]	DISCHARGE SOUND (NC)	BASIS OF DESIGN		REMARKS
					SLOT QUANTITY	SLOT WIDTH	SLOT LENGTH			MANUFACTURER	MODEL	
E1-1	FIXED FACE	0-75	8x10	8"x6"	0	0' - 0"	0' - 0"	0.05	25	TITUS	23RL	
E1-2	FIXED FACE	76-125	8x12	6"x10"	0	0' - 0"	0' - 0"	0.05	25	TITUS	23RL	
E1-3	FIXED FACE	126-225	10x14	8"x12"	0	0' - 0"	0' - 0"	0.09	25	TITUS	23RL	
R1-1	PLAQUE FACE	0-200	24x24	8"ø	0	0' - 0"	0' - 0"	0.13	20	TITUS	PAR	
R1-2	PLAQUE FACE	201-325	24x24	10"ø	0	0' - 0"	0' - 0"	0.15	20	TITUS	PAR	
R1-3	PLAQUE FACE	326-450	24x24	12"ø	0	0' - 0"	0' - 0"	0.13	20	TITUS	PAR	
R2-1	CONTINUOUS LINEAR	0-240	-	0"ø	3	0' - 1"	4' - 0"	0.02	20	TITUS	MLR-39	
S1-1	PLAQUE FACE	0-125	24x24	6"ø	0	0' - 0"	0' - 0"	0.03	20	TITUS	PAS	
S1-2	PLAQUE FACE	126-200	24x24	8"ø	0	0' - 0"	0' - 0"	0.07	20	TITUS	PAS	
S1-3	PLAQUE FACE	201-250	24x24	10"ø	0	0' - 0"	0' - 0"	0.05	20	TITUS	PAS	
S1-4	PLAQUE FACE	251-350	24x24	12"ø	0	0' - 0"	0' - 0"	0.06	20	TITUS	PAS	
S2-1	CONTINUOUS LINEAR	0-125	-	8"ø	2	0' - 1"	4' - 0"	0.04	20	TITUS	ML-39	
S2-2	CONTINUOUS LINEAR	126-250	-	10"ø	3	0' - 1"	4' - 0"	0.03	20	TITUS	ML-39	
S3-1	SIDEWALL	0-150	8x8	6"x6"	0	0' - 0"	0' - 0"	0.12	20	TITUS	271RL	

NOTES:
1. PROVIDE LINEAR DIFFUSER WITH INSULATED FACTORY PLENUM.
2. COORDINATE FINISH COLOR WITH ARCHITECT.
3. PROVIED GRILLES WITH 3/4" SPACING AND 0° DEFLECTION IN CEILINGS
3. PROVIED GRILLES WITH 3/4" SPACING AND 45° DEFLECTION IN WALLS

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SEALS AND SIGNATURES

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Project Number
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1.M.701
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CONTROL ABBREVIATIONS

#

2-D	TWO-DIMENSIONAL
3-D	THREE-DIMENSIONAL

A

AAC	ADVANCED APPLICATION CONTROLLER
AFMS	AIRFLOW MEASURING STATION
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
ALT	ALTERNATOR
AO	ANALOG OUTPUT
ASC	APPLICATION SPECIFIC CONTROLLER
AX	AUXILIARY CONTACT

B

B	BOILER
BC	BUILDING CONTROLLER
BD	BACKDRAFT DAMPER
BMS	BUILDING MANAGEMENT SYSTEM

C

CB	CHILLED BEAM
CBCHW	CHILLED BEAM CHILLED WATER
CBHW	CHILLED BEAM HOT WATER
CC	COOLING COIL
CCDT	COOLING COIL DISCHARGE TEMPERATURE
CH	CHILLER
CHW	CHILLED WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CURRENT INPUT
CM	CONTROL MODULE
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
CSR	CURRENT SWITCH OR CURRENT SENSING RELAY
CR	CONTROL RELAY
CT	COOLING TOWER
CW	CONDENSER WATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY

D

D	DAMPER
DDC	DIRECT DIGITAL CONTROL
DF	DIESEL FUEL
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
DP	PRESSURE DIFFERENCE
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE SENSOR
DX	DIRECT EXPANSION

E

EA	EXHAUST AIR
ED	ENABLE / DISABLE
EF	EXHAUST FAN
EP	ELECTRIC / PNEUMATIC RELAY
ES	END SWITCH

F

F	DEGREES FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FD	FIRE DAMPER
FDAT	FAN DISCHARGE AIR TEMPERATURE
FDSD	COMBINATION FIRE AND SMOKE DAMPER
FM	FLOW METER
FR	FIELD RELAY
FS	FLOW SWITCH
FZ	FREEZESTAT

G

GCF	GARAGE CIRCULATION FAN
GEF	GARAGE EXHAUST FAN
GIF	GARAGE INTAKE FAN

H

H	HUMIDITY
HC	HEATING COIL
HHW	HEATING HOT WATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HI	HIGH
HL	HIGH LEVEL
HX	HEAT EXCHANGER

K

KW	KILOWATTS

L

LO	LOW
LL	LOW LEVEL
LV	LEVEL

M

MAX	MAXIMUM
MAT	MIXED AIR TEMPERATURE
MIN	MINIMUM
MS	MOTOR STARTER

N

N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN

O

OA	OUTDOOR AIR
OAH	OUTDOOR AIR HUMIDITY
OAT	OUTDOOR AIR TEMPERATURE
OWS	OPERATOR WORK STATION

P

P	PUMP
PH	PENTHOUSE
PHDT	PREHEAT DISCHARGE TEMPERATURE
PMCS	POWER MONITORING & CONTROL SYSTEM
PPM	PARTS PER MILLION
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH

R

RA	RETURN AIR; REFRIGERANT ALARM
RAH	RETURN AIR HUMIDITY
RAT	RETURN AIR TEMPERATURE
RET	RETURN
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RLMS	REFRIGERANT LEAK MONITORING SYSTEM
RLF	RELIEF
ROT	ROTATION MONITORING SENSOR

S

S	SOLENOID
SA	SUPPLY AIR
SC	SELF CONTAINED UNIT
SD	SMOKE DAMPER; SMOKE DETECTOR
SF	SUPPLY FAN
SP	STATIC PRESSURE
SS	START / STOP
SV	SOLENOID VALVE
SW	SWITCH

T

T	TEMPERATURE SENSOR
TEF	TOILET EXHAUST FAN
TH	THERMOSTAT

V

V	VALVE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VO	VOLTAGE OUTPUT
VS	VIBRATION SWITCH

W

WC	WATER COLUMN

SEE CONTROL SYMBOLS, LEGENDS AND EQUIPMENT SCHEDULES FOR ADDITIONAL ABBREVIATIONS. ALL ABBREVIATIONS, SYMBOLS, AND LEGENDS SHOWN ON THIS DRAWINGS ARE NOT NECESSARILY USED.

CONTROL SYMBOLS

SENSING COMPONENTS

- AIR FLOW MEASURING STATION (DUCT)
- FAN INLET BELL HOUSING AIR FLOW MEASURING STATION
- T — TEMPERATURE SENSOR
- T — TEMPERATURE SENSOR (AVERAGING)
- FT — FREEZESTAT
- PS — PRESSURE SWITCH
- P — PRESSURE SENSOR OR PRESSURESTAT
- FS — FLOW SWITCH
- H — RELATIVE HUMIDITY SENSOR (DUCT)
- SD — SMOKE DETECTOR (DUCT)
- CO2 — CARBON DIOXIDE SENSOR (DUCT)
- CO — CARBON MONOXIDE SENSOR (DUCT)
- FM — FLOW METER
- L — LEVEL SENSOR
- R — REFRIGERANT LEAK SENSING POINT
- LOW / SP / HIGH — STATIC PRESSURE SENSOR
- DPS — DIFFERENTIAL PRESSURE SWITCH
- DPT — DIFFERENTIAL PRESSURE SENSOR
- S — SPACE TEMPERATURE SENSOR
- T — THERMOSTAT
- H — SPACE HUMIDITY SENSOR
- HU — HUMIDISTAT
- H — HYDROGEN SENSOR (WALL)
- CO2 — CARBON DIOXIDE SENSOR (WALL)
- CO — CARBON MONOXIDE SENSOR (WALL)
- G — AIR FILTER WITH DIFFERENTIAL PRESSURE SENSOR AND PRESSURE GAUGE

CONTROL COMPONENTS

- M — 2-WAY ELECTRIC CONTROL VALVE
- M — 3-WAY ELECTRIC CONTROL VALVE
- TH, M — 2-WAY CONTROL VALVE WITH INTEGRAL THERMOSTAT
- TH, M — 3-WAY CONTROL VALVE WITH INTEGRAL THERMOSTAT
- M — BUTTERFLY VALVE ELECTRIC ACTUATOR
- M — SEGMENTED BALL VALVE ELECTRIC ACTUATOR
- 2-WAY PNEUMATIC CONTROL VALVE
- 3-WAY PNEUMATIC CONTROL VALVE
- BUTTERFLY VALVE PNEUMATIC ACTUATOR
- SEGMENTED BALL VALVE PNEUMATIC ACTUATOR
- S — 2-WAY SOLENOID VALVE
- S — 3-WAY SOLENOID VALVE
- M — OPPOSED BLADE DAMPER - ELECTRIC ACTUATOR
- M — PARALLEL BLADE DAMPER - ELECTRIC ACTUATOR
- M, ES — OPPOSED BLADE DAMPER WITH END SWITCH - ELECTRIC ACTUATOR
- M, ES — PARALLEL BLADE DAMPER WITH END SWITCH - ELECTRIC ACTUATOR
- ES — OPPOSED BLADE DAMPER - PNEUMATIC ACTUATOR
- PARALLEL BLADE DAMPER - PNEUMATIC ACTUATOR
- ES — OPPOSED BLADE DAMPER WITH END SWITCH - PNEUMATIC ACTUATOR
- ES — PARALLEL BLADE DAMPER WITH END SWITCH - PNEUMATIC ACTUATOR
- OPPOSED BLADE DAMPER- PNEUMATIC ACTUATOR WITH POSITIONER
- PARALLEL BLADE DAMPER- PNEUMATIC ACTUATOR WITH POSITIONER

CONTROL ELECTRICAL COMPONENTS

- M — INTEGRAL FACE & BYPASS STEAM HEATING COIL
- H/C — HOT WATER OR STEAM HEATING COIL
- C/C — CHILLED WATER COOLING COIL
- D/X — DIRECT EXPANSION HEATING & COOLING COIL
- E/C — WATERSIDE ECONOMIZER COOLING COIL
- R/C — ENERGY RECOVERY COIL
- ELECTRIC DUCT HEATER
- DH — GAS FIRED DUCT HEATER
- GFH — ELECTRIC HUMIDIFIER
- STEAM HUMIDIFIER
- GFH — GAS FIRED HUMIDIFIER
- UV — ULTRAVIOLET LIGHT AIR PURIFIER
- CENTRIFUGAL FAN OR PUMP
- FAN WITH PNEUMATIC VARIABLE INLET VANES
- PROPELLER TYPE FAN
- M — ROOF MOUNTED EXHAUST FAN (SINGLE PHASE)
- M — ROOF MOUNTED EXHAUST FAN (3 PHASE)
- PLATE AND FRAME HEAT EXCHANGER
- SHELL AND TUBE HEAT EXCHANGER

- AX — AUXILIARY CONTACT
- CI — CURRENT INPUT
- CSR — CURRENT SENSING RELAY
- CT — CURRENT TRANSDUCER
- EN — ENABLE / DISABLE
- SP — SET POINT
- SS — START / STOP
- VI — VOLTAGE INPUT
- VO — VOLTAGE OUTPUT
- VS — VIBRATION SWITCH
- CS — CURRENT SWITCH
- CM — CONTROL MODULE
- TDR — TIME DELAY RELAY
- MS — MOTOR STARTER
- FA — FIRE ALARM INTERFACE
- VFD — VARIABLE FREQUENCY DRIVE
- ECM — ELECTRONICALLY COMMUTATED MOTOR
- EPS — ELECTRIC TO PNEUMATIC SWITCH
- EPV — ELECTRIC TO PNEUMATIC VALVE
- ROT — ROTATION MONITORING SENSOR
- UMCP — UNIT MANUFACTURER'S CONTROL PANEL
- RLMS — REFRIGERANT LEAK MONITORING SYSTEM
- FACP — FIRE ALARM CONTROL PANEL
- EPB — EMERGENCY PUSH BUTTON
- SW — WALL MOUNTED SWITCH
- OR — OCCUPANCY OVER RIDE SWITCH
- OS — OCCUPANCY SENSOR
- R — REFRIGERANT LEAK MONITORING SYSTEM COMBINATION HORN/STROBE
- HORN OR SIREN
- BELL
- ALT — ALTERNATOR
- R — RELAY
- T-1 — POINT NAME'S INDENIFICATION (CORRESPONDS TO CONTROL ABBREVIATIONS)
- 1 — POINT NAME'S NUMBER (CONSECUTIVELY COUNTED IN RESPECT TO CONTROL ABBREVIATIONS) POINT NUMBER (CONSECUTIVELY COUNTED)

FILTER TYPE DIAGRAMS

- FILTER
- BAG FILTER
- ROLL FILTER

BMS POINT FUNCTION DESCRIPTIONS

HVAC CONTROLS - BMS POINT FUNCTION SCHEDULE

	1 HARDWARE		2 FAIL MODE			3 SOFTWARE															4 ALARM LIMITS		
POINT NAME	TAG	POINT TYPE	FAIL ON (OPEN)	FAIL OFF (CLOSED)	LAST COMMANDED STATE	LOCAL DEFAULT	NETWORK POINT	CALCULATED POINT	MAINTENANCE ALARM	CRITICAL ALARM	24 HOUR OPERATION	PROGRAM START/STOP	OPTIMUM START	MORNING WARM/COOL	UNOCCUPIED SET POINT	DEMAND LIMIT	DIRECT DIGITAL CONTROL	SET POINT ADJUSTMENT	TOTALIZER	RUN TIME	ALARM INSTRUCTIONS	MAINTENANCE WORK ORDER	ALARM LIMITS	SOFTWARE INTERLOCKS	TREND	LOW LIMIT	HIGH LIMIT	NOTES

POINT NAME: UNIQUE MORE DISCRIPTIVE VERSION OF TAG (POINT TAG).

1 HARDWARE

TAG (POINT TAG): UNIQUE SENSOR/DEVICE IDENTIFICATION DESIGNATION.

POINT TYPE: TYPE OF INPUT OR OUTPUT CONNECTED TO A BMS CONTROL PANEL. EACH OF THE 4 TYPES (AI, AO, DI, DO) ARE DISCRIPBED BELOW:

AI (ANALOG INPUT): A SIGNAL INPUT TO THE BUILDING MANAGEMENT SYSTEM WHICH HAS A VARIABLE RANGE OF VALUES. ANALOG INPUTS PROVIDE NUMERIC DATA RATHER THAN SIMPLE "ON/OFF" STATES. EXAMPLES OF ANALOG INPUTS FROM SENSORS INCLUDE TEMPERATURE, PRESSURE, HUMIDITY, AND CHEMICAL CONCENTRATION.

AO (ANALOG OUTPUT): A SIGNAL OUTPUT FROM THE BUILDING MANAGEMENT SYSTEM WHICH HAS A VARIABLE RANGE OF VALUES. ANALOG OUTPUTS PROVIDE PROPORTIONAL CONTROL COMMANDS TO EQUIPMENT. EXAMPLES OF ANALOG OUTPUTS INCLUDE SET POINT ADJUSTMENT AND MOTOR SPEED.

DI (DIGITAL INPUT): A SIGNAL INPUT TO THE BUILDING MANAGEMENT SYSTEM WHICH HAS A BINARY (1 OR 0) VALUE. DIGITAL INPUTS PROVIDE DATA ABOUT THE STATUS OF A SPACE OR EQUIPMENT. EXAMPLES OF DIGITAL INPUTS INCLUDE MOTOR STATUS ("ON/OFF"), VALVE POSITION ("OPEN/CLOSED"), OCCUPANCY ("OCCUPIED/UNOCCUPIED"), OR LIMIT ALARMS SUCH AS HIGH VOLTAGE OR LOW FUEL.

DO (DIGITAL OUTPUT): A SIGNAL OUTPUT FROM THE BUILDING MANAGEMENT SYSTEM WHICH HAS A BINARY (1 OR 0) VALUE. THESE OUTPUTS CONTROL EQUIPMENT WHICH OPERATES IN TWO MAIN STATES (SUCH AS "ON" AND "OFF"). EXAMPLES OF THESE OUTPUTS INCLUDE MOTOR START/STOP AND DAMPER OR VALVE POSITION CONTROL ("OPEN/CLOSE").

2 FAIL MODE

FAIL ON (OPEN): CONTROLLED DEVICE REVERTS TO THE OPEN POSITION OR THE ENGAGED STATE WHEN POWER OR CONTROL SIGNAL IS LOST.

FAIL OFF (CLOSED): CONTROLLED DEVICE REVERTS TO THE CLOSED POSITION OR THE DISENGAGED STATE WHEN POWER OR CONTROL SIGNAL IS LOST.

LAST COMMANDED STATE: CONTROLLED DEVICE REMAINS IN THE SAME POSITION OR STATE, WHEN POWER OR CONTROL SIGNAL IS LOST.

3 SOFTWARE

NETWORK POINT: POINT IS EITHER DIRECTLY OR INDIRECTLY CONNECTED TO THE BMS. IT IS COMMUNICATED TO THE BMS THROUGH A COMMUNICATION GATEWAY FROM ANOTHER INTELLIGENT PIECE OF EQUIPMENT OR PROVIDED BY A COMMUNICATION PROTOCOL (I.E. BACNET, LONWORKS, OR MODBUS).

CALCULATED POINT: A POINT NOT CONNECTED DIRECTLY TO THE BMS, BUT ITS VALUE IS CALCULATED BY THE DDC USING INPUT DATA. DEFINED IN POINT SCHEDULE WHEN SPECIAL CALCULATED VALUES ARE REQUIRED BY SYSTEM DESIGN.

MAINTENANCE ALARM: NOTIFIES PERSONNEL OF REQUIRED MAINTENANCE.

CRITICAL ALARM: ALARM FOR FAILURES WHICH WOULD PROVE PARTICULARLY DAMAGING TO SYSTEMS OR ARCHITECTURE.

24 HOUR OPERATION: SPECIFIES PROCEDURE FOR RUNNING SYSTEM AT ALL HOURS OF DAY AND NIGHT.

PROGRAM START/STOP: BEGINS/ENDS SYSTEM CONTROL PROGRAM.

OPTIMUM START: USES PAST HISTORY TO DETERMINE ENERGY EFFICIENT TIMES TO ACTIVATE EQUIPMENT.

MORNING WARM/COOL: PROCEDURE FOR BRINGING SPACE TO OCCUPIED SET POINTS FROM UNOCCUPIED SET POINTS.

UNOCCUPIED SET POINT: SET POINT WHICH ALLOWS SYSTEM TO SAVE ENERGY BY DRIFTING FROM NORMAL TARGETS WHILE SPACE IS UNOCCUPIED.

DEMAND LIMIT: ELECTRICAL ENERGY CONSERVATION STRATEGY WHICH REDUCES kW DEMAND DURING PEAK UTILITY RATE PERIODS.

DIRECT DIGITAL CONTROL: MICRO PROCESSOR BASED DIGITAL CONTROLLER.

CONTROL POINT ADJUSTMENT: MODIFIES SET POINT.

TOTALIZER: PERFORMS A SUMMATION OF AN ANALOG INPUT.

RUN TIME: MONITORS HOW LONG A DIGITAL INPUT OR 2-STATE DIGITAL OUTPUT HAS REGISTERED A SPECIFIC STATE.

ALARM INSTRUCTIONS: PROVIDES INSTRUCTIONS FOR RESPONSE TO A GIVEN ALARM CONDITION.

MAINTENANCE WORK ORDER: CREATES WORK ORDER FOR USE BY MAINTENANCE PERSONNEL OR CONTRACTOR.

ALARM LIMITS: DETERMINES AT WHAT POINTS THE SYSTEM MUST REACH BEFORE ALARM IS INDICATED.

SOFTWARE INTERLOCKS: TRIGGERS AN EVENT TO TAKE PLACE IN THE SYSTEM.

TREND: TRACKS AND DISPLAYS POINT VALUES (ANALOG OR DIGITAL) OVER TIME.

4 ALARM LIMITS

LOW LIMIT: USER DEFINED MINIMUM VALUE BEFORE ALARMING.

HIGH LIMIT: USER DEFINED MAXIMUM .

ELECTRICAL SYMBOLS

- LIQUID LEVEL (NORMALLY OPEN)
- LIQUID LEVEL (NORMALLY CLOSED)
- PRESSURE SWITCH (NORMALLY OPEN)
- PRESSURE SWITCH (NORMALLY CLOSED)
- 2 POSITION TEMP. CONTROLLER (MAKE ON RISE)
- 2 POSITION TEMP. CONTROLLER (BREAK ON RISE)
- FLOW SWITCH (NORMALLY OPEN)
- FLOW SWITCH (NORMALLY CLOSED)
- LIMIT SWITCH (NORMALLY OPEN)
- LIMIT SWITCH (NORMALLY CLOSED)
- TOGGLE SWITCH
- MOMENTARY PUSHBUTTON (NORMALLY OPEN)
- MOMENTARY PUSHBUTTON (NORMALLY CLOSED)
- OFF / HAND / AUTO — 3 POSITION SWITCH (H-O-A SHOWN)
- HAND / OFF / AUTO — 3 POSITION SELECTOR SWITCH (H-O-A SHOWN)
- ELECTRIC-PNEUMATIC SWITCH OR SOLENOID VALVE
- N.O. / T.C. — TIME DELAY CONTACT AFTER COIL IS ENERGIZED (NORMALLY OPEN)
- N.C. / T.O. — TIME DELAY CONTACT AFTER COIL IS ENERGIZED (NORMALLY CLOSED)
- N.O. / T.O. — TIME DELAY CONTACT AFTER COIL IS ENERGIZED (NORMALLY OPEN)
- N.C. / T.C. — TIME DELAY CONTACT AFTER COIL IS (NORMALLY CLOSED)
- CONTACTOR OR CONTROL RELAY CONTACT (NORMALLY OPEN)
- THERMAL OVERLOAD OR CONTROL RELAY CONTACT (NORMALLY CLOSED)
- C — CONTACTOR
- M — STARTER COIL
- CR — CONTROL RELAY
- TDR — TIME DELAY RELAY
- TERMINAL AT CONTROL PANEL
- TERMINAL AT STARTER
- T — PILOT LIGHT(PUSH TO TEST)
- 3 PHASE MOTOR
- SINGLE PHASE MOTOR
- THERMAL OVERLOAD
- FUSE
- DISCONNECT
- H_1 H_2 H_3 H_4 / X_1 X_2 — CONTROL TRANSFORMER (480 VAC/120 VAC)
- TRANSFORMER
- HORN OR SIREN
- BELL
- ALT — ALTERNATOR
- VFD — VARIABLE FREQUENCY DRIVE
- MS — MOTOR STARTER
- CS — CURRENT SWITCH
- CT — CURRENT TRANSMITTER
- I/P — CURRENT TO PNEUMATIC TRANSMITTER — TO DDC

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SHEET TITLE

MECHANICAL CONTROLS ABBREVATIONS AND SYMBOLS

Project Number

PROJECT NUMBER

CD

SHEET NUMBER

1.M.801

Author

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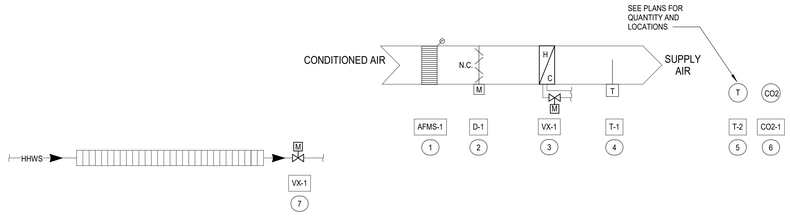

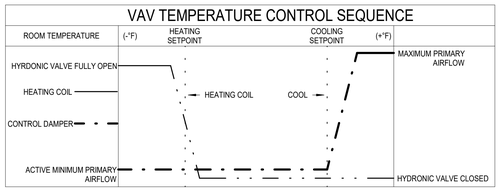

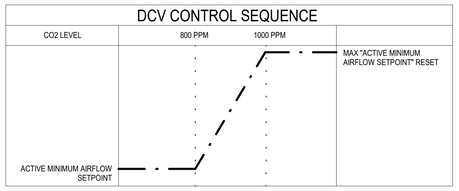

1. VAV WITH HYDRONIC REHEAT SOO:

SPACE TEMPERATURE CONTROL

1. WHEN A VAV BOX IS STARTED, THE BMS SHALL DEFAULT TO THE FOLLOWING SETPOINTS:
   A. AIR DAMPER POSITION SETPOINT CORRESPONDING TO THE HEATING MODE PRIMARY AIR FLOW.
2. COOLING OPERATION:
   A. IF THE BMS SENSES THAT THE AVERAGE SPACE TEMPERATURE INCREASES ABOVE THE SPACE TEMPERATURE SET POINT, IT SHALL CONTROL THE TERMINAL UNIT AS FOLLOWS:
      A. MODULATE OPEN THE AIR DAMPER SUCH THAT THE BOX DELIEVERS THE MAXIMUM AMOUNT OF PRIMARY AIR AS SCHEDULED FOR EACH BOX.
3. HEATING OPERATION:
   A. IF THE BMS SENSES THAT THE AVERAGE SPACE TEMPERATURE DECREASES BELOW THE SPACE TEMPERATURE SET POINT, IT SHALL CONTROL THE VAV BOX AS FOLLOWS:
      A. FIRST, MODULATE THE TERMINAL UNIT PRIMARY AIR DAMPER TO DECREASE THE AMOUNT OF PRIMARY AIR FROM THE COOLING MODE MAXIMUM PRIMARY AIR FLOW SETPOINT TOWARDS THE HEATING MODE PRIMARY AIR FLOW SETPOINT, AS SCHEDULED FOR EACH BOX.
   B. REHEAT COIL AND FIN TUBE RADIATOR CONTROL:
      A. UPON A FURTHER DECREASE IN AVERAGE SPACE TEMPERATURE, AS SENSED BY THE LOCAL SPACE TEMPERATURE SENSORS, THE BMS SHALL MODULATE THE HEATING HOT WATER CONTROL VALVE TO MAINTAIN A SUPPLY AIR TEMPERATURE OF 75F (ADJ).
      B. UPON FURTHER DROP IN AVERAGE SPACE TEMPERATURE, THE BMS SHALL MODULATE THE FTR HEATING HOT WATER VALVE FROM THE FULLY CLOSED TO FULLY OPEN POSITION. WHERE ROOMS CONTAIN MULTIPLE FIN TUBE RADIATORS, ALL VALVES SHALL MODULATE IN UNISON.
   C. UPON AN INCREASE IN AVERAGE SPACE TEMPERATURE, THE REVERSE SHALL OCCUR.

GENERAL SEQUENCE OF OPERATIONS

1. WHEN THE ASSOCIATED AIR HANDLING UNIT IS OFF, THE PRIMARY AIR DAMPER SHALL BE FULLY CLOSED, AND THE HEATING HOT WATER COIL SHALL BE CONTROLLED CLOSED.
2. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   A. LOW REHEAT FAULT: IF THE REHEAT IS ENABLED AND DAT IS 5°F (ADJ.) LESS THAN THE LOWER LIMIT OF 55°F (ADJ.).
   B. HIGH REHEAT FAULT: IF THE REHEAT IS ENABLED AND DAT IS 5°F (ADJ.) ABOVE UPPER LIMIT OF 100°F (ADJ.).
3. THE BMS SHALL AUTOMATICALLY SWITCH (BASED ON A TIME SCHEDULE) THE VAV SPACE TEMPERATURE SET POINT ACCORDING TO THE FOLLOWING:
   A. OCCUPIED HEATING SET POINT: 70°F (ADJ.)
   B. OCCUPIED COOLING SET POINT: 75°F (ADJ.)
   C. UNOCCUPIED HEATING SET POINT: 65°F (ADJ.)
   D. UNOCCUPIED COOLING SET POINT: 80°F (ADJ.)

DEMAND CONTROL VENTILATION CONTROL

1. REFER TO MECHANICAL SCHEDULES FOR MAXIMUM AND MINIMUM AIRFLOW SETPOINTS
2. SEQUENCE APPLY ONLY WHEN THE ZONE IS IN OCCUPIED MODE.
3. THE CONTROL LOOP OUTPUT SHALL BE 0% AT 800 PPM (ADJ.) AND 100% AT 1000 PPM (ADJ).
4. FROM 0-100%, THE LOOP OUTPUT SHALL RESET THE ACTIVE MINIMUM AIRFLOW SETPOINT FOR ITS ASSOCIATED ZONE BETWEEN THE MINIMUM AIRFLOW SETPOINT AND THE MAXIMUM AIRFLOW SETPOINT PER THE MECHANICAL SCHEDULE.
5. IF A SPACE , AS CALCULATED BY THE AVERAGE OF THE CO2 SENSORS IN THE SPACE, READS 1000PPM THEN VAV DAMPER SHALL MODULATE OPEN TO THE MAXIMUM RESET. WHEN THE SPACE REACHS 800 PPM THE DAMPER SHALL RETURN TO ACTIVE MINIMUM PRIMARY AIRFLOW SETPOINT.
6. DEMAND CONTROL VENTILATION APPLIES TO VAV-404, VAV-406, AND VAV-410

1 VAV WITH HYDRONIC REHEAT
SCALE: NOT TO SCALE

HVAC CONTROLS - BMS POINT FUNCTION SCHEDULE

	POINT NAME	TAG	HARDWARE: POINT TYPE	FAIL MODE: FAIL ON (OPEN)	FAIL MODE: FAIL OFF (CLOSED)	FAIL MODE: LAST COMMANDED STATE	SOFTWARE: LOCAL DEFAULT	CALCULATED INPUT	MAINTENANCE ALARM	CRITICAL ALARM	24 HOUR OPERATION	PROGRAM START/STOP	OPTIMUM START	MORNING WARM/COOL	UNOCCUPIED SET POINT	DEMAND LIMIT	DIRECT DIGITAL CONTROL	SET POINT ADJUSTMENT	TOTALIZER	RUN TIME	ALARM INSTRUCTIONS	MAINTENANCE WORK ORDER	ALARM LIMITS	SOFTWARE INTERLOCKS	TREND	GRAPHICS: 2-D GRAPHICS	3-D GRAPHICS	FLOOR PLANS	POINTS LIST	ALARM LIMITS: LOW LIMIT	HIGH LIMIT	NOTES
1. VAV BOX WITH HEATING HOT WATER																																
1	AIRFLOW MEASURING STATION	AFMS-1	AI																		■		■		■							
2	MOTORIZED DAMPER CONTROL	D-1	AO		■												■															
3	HYDRONIC HEATING COIL CONTROL VALVE	VX-1	AO	■													■								■							
4	DISCHARGE AIR TEMPERATURE	T-1	AI																		■		■		■							
5	SPACE AIR TEMPERATURE	T-2	AI																		■		■		■							
6	CO2 CONCENTRATION	CO2-1	AI																		■		■		■							
7	FIN TUBE RADIATOR CONTROL VALVE		AO	■													■								■							

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MECHANICAL CONTROLS

Project Number

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ELECTRICAL ABBREVIATIONS

(A)	
A	AMPERES
AC	ALTERNATING CURRENT
AF	AMPERE FRAME (BREAKER RATING)
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
ARCH	ARCHITECT
AT	AMPERES TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
(B)	
BLDG	BUILDING
BRKR, BKR	BREAKER
(C)	
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
COM, COMM	COMMUNICATIONS
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
(D)	
D	DEMOLISH
DC	DIRECT CURRENT
DISC	DISCONNECT
DIST	DISTRIBUTION
DIV	DIVISION
DN	DOWN
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
(E)	
E, EX, EXIST	EXISTING
EG	EQUIPMENT GROUND
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EM, EMEG	EMERGENCY
EMT	ELECTRIC METALLIC CONDUIT
ENCL	ENCLOSURE
EQ, EQIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
(F)	
F	FUSE
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAEP	FIRE ALARM EXTENDER PANEL
FC	FOOT CANDLE
FDR	FEEDER
FL, FLR	FLOOR
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FT	FOOT / FEET (')
(G)	
G, GND, GRD	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
(H)	
H	HORIZONTAL MOUNTING
HH	HAND HOLE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HT	HEIGHT
HTR	HEATER
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HZ	HERTZ
(I)	
IG	ISOLATED GROUND
IN	INCH / INCHES (")
INCAND	INCANDESCENT
(J)	
JB, JBOX	JUNCTION BOX
(K)	
K	KEY INTERLOCK
Kcmil	1000 CIRCULAR mils
KV	KILOVOLTS (THOUSAND VOLTS)
KVA	KILOVOLTS-AMPERES (THOUSAND VOLT-AMPS)
kW	KILOWATTS (THOUSAND WATTS)
KWH	KILOWATT-HOURS
(L)	
L-G	LINE TO GROUND
L-L	LINE TO LINE
L-N	LINE TO NEUTRAL
LA	LIGHTNING ARRESTOR
LAN	LOCAL AREA NETWORK
LC, LCP	LIGHTING CONTROL PANEL
LP	LIGHTING PANEL
LSI	LONG-TIME, SHORT-TIME, INSTANTANEOUS
LSIA	LONG-TIME, SHORT-TIME, INSTANTANEOUS,GROUND-FAULT ALARM ONLY
LSIG	LONG-TIME, SHORT-TIME, INSTANTANEOUS,GROUND-FAULT
LTG	LIGHTING
LV	LOW VOLTAGE (BELOW 50 VOLTS)
(M)	
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE (OVER 600V LESS THAN 35KV)
(N)	
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO., NUM. #	NUMBER
NTS	NOT TO SCALE
(O)	
OC	ON CENTER
OCPD	OVERCURRENT PROTECTION DEVICE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OHE/T	OVERHEAD ELECTRIC/TELEPHONE
OPP	OPPOSITE
(P)	
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PDP	POWER DISTRIBUITION PANEL
PE	PHOTO ELECTRIC
PF	POWER FACTOR
PH, Ø	PHASE
PNL	PANEL
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
(Q)	
QTY	QUANTITY
(R)	
R, RE	RELOCATE AS SHOWN
RCLP	REMOTE CONTROL LIGHTING PANEL
RCPT	RECEPTACLE
REF	REFRIGERATOR
RF	RADIO FREQUENCY
RLA	RATED (RUNNING) LOAD AMPS
RM	ROOM
RP	RECEPTACLE PANELBOARD
RSC	RIGID STEEL CONDUIT
(S)	
SCH, SCHED	SCHEDULE
SEC	SECONDARY
SF	SQUARE FOOT
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPEC(S)	SPECIFICATION(S)
SPKR	SPEAKER
SPST	SINGLE POLE SINGLE THROW
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
(T)	
TB	TERMINAL BLOCK
TBB	TELEPHONE BACKBOARD
TC	TIME CLOCK
TEL, TELE	TELEPHONE
TELECOM	TELECOMMUNICATIONS
TP	TAMPERPROOF
TV	TELEVISION
TYP	TYPICAL
(U)	
UG	UNDERGROUND
UGP	UNDERGROUND PRIMARY
UGS	UNDERGROUND SECONDARY
UGT	UNDERGROUND TELEPHONE
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
(V)	
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE/ VARIABLE FREQUENCY MOTOR CONTROLLER
VM	VIDEO MONITOR
(W)	
W	WIRE
W/	WITH
W/O	WITHOUT
WHM	WATT HOUR METER
WP	WEATHERPROOF
(X)	
X	REMOVE DEVICE
XFMR	TRANSFORMER
(Z)	
%Z	PERCENT IMPEDANCE

ALL ABBREVIATIONS, SYMBOLS AND LEGENDS SHOWN ON THIS DRAWING ARE NOT NECESSARILY USED.

ELECTRICAL LIGHTING SYMBOLS

- WALL MOUNTED LIGHTING FIXTURE- TYPE AS INDICATED
- LIGHTING FIXTURE - TYPE AS INDICATED. UPPERCASE LETTER SUBSCRIPT INDICATES DAYLIGHT ZONES, NUMERICAL SUBSCRIPT INDICATES STANDALONE CONTROL ZONES.
- LIGHTING FIXTURE - TYPE AS INDICATED
- WALLWASH LIGHT FIXTURE
- SHADING INDICATES FIXTURE CONNECTED TO EMERGENCY BRANCH
- LIGHTING TRACK - "X" DENOTES TYPE
- EXIT LIGHT - WALL/CEILING MOUNTED - DIRECTIONAL ARROWS AS INDICATED SHADING INDICATES ILLUMINATED FACE
- SITE LIGHTING FIXTURE TYPE AS INDICATED
- LIGHTING FIXTURE TYPE DESIGNATION - "XX" INDICATES SPECIFIC TYPE
- SINGLE OR DOUBLE, REMOTE EMERGENCY LIGHTING FIXTURE
- SINGLE POLE SWITCH (SUBSCRIPT INDICATES FIXTURES CONTROLLED)
- THREE-WAY SWITCH (S3P-THREE-WAY SWITCH WITH PILOT LIGHT)
- FOUR - WAY SWITCH
- DIGITAL STANDALONE LOW VOLTAGE DIMMER KEYPAD. NUMERICAL SUBSCRIPTS INDICATE LOCAL USER KEYPAD DIMMING CONTROL ZONES. PROVIDE SINGLE INDIVIDUAL BUTTONS FOR SEPARATE DIMMING CONTROL OF EACH ZONE INDICATED BY NUMBER SUBSCRIPTS.
- OCCUPANCY SENSOR WALL SWITCH
- DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC) OCCUPANCY SENSOR DIMMER WALL SWITCH
- PRESET TOUCH SCREEN MULTI-SCENE DIMMING MASTER CONTROL STATION. SEE LIGHTING CONTROL DETAILS IN E6 SERIES FOR ADDITIONAL INFORMATION. B.O.D.: LUTRON, GRAFIK EYE QS
- DIGITAL PASSIVE INFRARED OCCUPANCY SENSOR (WALL/CEILING). NUMBER SUBSCRIPTS INDICATE ZONES. WHERE NO SUBSCRIPTS ARE SHOWN, DEVICE CONTROLS ALL FIXTURES WITHIN SPACE.
- DIGITAL ULTRASONIC OCCUPANCY SENSOR (WALL/CEILING). NUMBER SUBSCRIPTS INDICATE ZONES. WHERE NO SUBSCRIPTS ARE SHOWN, DEVICE CONTROLS ALL FIXTURES WITHIN SPACE.
- DIGITAL PASSIVE INFRARED/ULTRASONIC OCCUPANCY SENSOR (WALL/CEILING). NUMBER SUBSCRIPTS INDICATE ZONES. WHERE NO SUBSCRIPTS ARE SHOWN, DEVICE CONTROLS ALL FIXTURES WITHIN SPACE.
- DIGITAL PHOTOCELL SENSOR. UPPERCASE LETTER SUBSCRIPT INDICATES DAYLIGHT ZONES.
- COMBINATION PHOTOCELL/OCCUPANCY SENSOR
- LIGHTING CONTROL PANEL WITHIN NEMA 1 ENCLOSURE. COORDINATE WITH LIGHTING CONTROL DETAILS IN E6 SERIES FOR ADDITIONAL INFORMATION.
- LIGHTING RELAY PANEL WITHIN NEMA 1 ENCLOSURE. COORDINATE WITH LIGHTING CONTROL DETAILS IN E6 SERIES FOR ADDITIONAL INFORMATION.
- PHOTOELECTRIC SENSOR FOR MOVABLE PARTITIONS. COORDINATE WITH LIGHTING CONTROL DETAILS IN E6 SERIES FOR ADDITIONAL INFORMATION.

DISTRIBUTION AND DIAGRAM SYMBOLS

- SWITCH - SINGLE THROW
- FUSED SWITCH
- TRANSFORMER - TYPE AND RATING AS INDICATED
- POTENTIAL TRANSFORMER
- CONTROL POWER TRANSFORMER
- CURRENT TRANSFORMER
- DELTA CONNECTION
- WYE CONNECTION - SOLID GROUND
- ELECTRIC INTERLOCK SYSTEM
- KEY INTERLOCKING SYSTEM
- DRAWOUT TYPE, CIRCUIT BREAKER
- STATIONARY CIRCUIT BREAKER
- FUSE
- AUTOMATIC TRANSFER SWITCH
- BUS DUCT PLUG-IN UNIT
- LIGHTNING ARRESTOR
- GROUND
- STRESS CONE
- ELECTRONIC METERING UNIT. SEE ELECTRICAL POWER SYMBOLS.
- SURGE PROTECTIVE DEVICE
- DISTRIBUTION PANELBOARD
- PANELBOARD - (FLUSH/SURFACE)
- LIGHTING CONTROL PANEL, SURFACE MTD. UON.
- LOW VOLTAGE LIGHTING RELAY PANEL, SURFACE MTD. UON
- MOTOR CONTROL CENTER
- UNINTERRUPTIBLE POWER SUPPLY
- TELECOMMUNICATIONS BACKBOARD
- SYMBOL INDICATES TO WHICH PANELBOARD INDICATED CIRCUITS IN THE ROOM ARE TO BE CONNECTED.
- GENERATOR ANNUNCIATOR (DERANGEMENT) PANEL
- GENERATOR

ELECTRICAL WIRING SYMBOLS

- HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED
- CONDUIT RUN CONCEALED IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS OR BELOW ACCESS FLOORS
- CONDUIT CAST IN CONCRETE OR BELOW SLAB
- DEMOLITION WORK
- UG — UNDERGROUND CONDUIT/DUCTBANK
- FB — FEEDER BUSWAY
- PB — PLUG-IN BUSWAY
- G — GROUND CABLE, SIZE AS INDICATED
- GB — GROUND BUS
- CT — CABLE TRAY
- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- EMH — ELECTRIC MANHOLE
- EHH — ELECTRIC HANDHOLE
- TMH — TELEPHONE MANHOLE
- GROUND ROD

ELECTRICAL POWER SYMBOLS

- SINGLE RECEPTACLE, 20A, 125V, 2P, 3W. (SLASH INDICATES MOUNTING ABOVE FINISH COUNTER)
- DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W. (SLASH INDICATES MOUNTING ABOVE FINISH COUNTER) AV TAG INDICATES RECEPTACLES USED FOR AV EQUIPMENT. COORDINATE MOUNTING HEIGHT AND FINAL LOCATION WITH T SERIES DRAWINGS. VM TAG INDICATES RECEPTACLES USED FOR VIDEO MONITORS. COORDINATE MOUNTING HEIGHT AND FINAL LOCATION WITH JCSS.
- XX
- GFI, DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W. (SLASH INDICATES MOUNTING ABOVE FINISH COUNTER)
- QUADRUPLEX RECEPTACLE, (2)20A, 125V, 2P, 3W, DUPLEX RECEPTACLES WITH A COMMON FACEPLATE (SLASH INDICATES MOUNTING ABOVE FINISH COUNTER). AV TAG INDICATES RECEPTACLES USED FOR AV EQUIPMENT. COORDINATE MOUNTING HEIGHT AND FINAL LOCATION WITH T SERIES DRAWINGS. VM TAG INDICATES RECEPTACLES USED FOR VIDEO MONITORS. COORDINATE MOUNTING HEIGHT AND FINAL LOCATION WITH JCSS.
- XX
- SINGLE ISOLATED GROUND RECEPTACLE, 20A, 125V, 2P, 3W. (SLASH INDICATES MOUNTING ABOVE FINISH COUNTER)
- DUPLEX ISOLATED GROUND RECEPTACLE, 20A, 125V, 2P, 3W. (SLASH INDICATES MOUNTING ABOVE FINISH COUNTER)
- QUADRUPLEX ISOLATED GROUND RECEPTACLE, (2)20A, 125V, 2P, 3W, DUPLEX ISOLATED GROUND RECEPTACLES WITH A COMMON FACEPLATE. (SLASH INDICATES MOUNTING ABOVE FINISH COUNTER)
- FULLY CONTROLLED DUPLEX/QUADRUPLEX RECEPTACLE PROVIDED IN ARCHITECTURAL COLOR. COORDINATE FINAL RECEPTACLE COLOR SELECTION WITH CLIENT. PROVIDE ALL WIRING, EQUIPMENT, POWER PACKS, AND OCCUPANCY SENSOR INTEGRATION REQUIRED TO TURN OFF RECEPTACLE(S) WHEN SPACE IS UNOCCUPIED.
- HALF CONTROLLED DUPLEX/QUADRUPLEX RECEPTACLE PROVIDED IN ARCHITECTURAL COLOR. COORDINATE FINAL RECEPTACLE COLOR SELECTION WITH CLIENT. PROVIDE ALL WIRING, EQUIPMENT, POWER PACKS, AND OCCUPANCY SENSOR INTEGRATION REQUIRED TO TURN OFF HALF OF RECEPTACLE(S) WHEN SPACE IS UNOCCUPIED.
- EMERGENCY DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W. (SHADING INDICATING EMERGENCY RECEPTACLE TYPICAL FOR ALL OTHER RECEPTACLE TYPES)
- COMBINATION USB DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W WITH (2) 5VDC, 2.1A USB CHARGING PORTS
- 6-30R — SPECIAL PURPOSE RECEPTACLE. TYPE AS INDICATED ON DRAWINGS. COORDINATE RECEPTACLE TYPE WITH ACTUAL EQUIPMENT PRIOR TO INSTALLATION.
- CEILING MOUNTED SINGLE RECEPTACLE, 20A, 125V, 2P, 3W.
- CEILING MOUNTED DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W. ("CR" SUBSCRIPT INDICATES CORD REEL)
- SINGLE RECEPTACLE, 20A, 125V, 2P, 3W., FLOOR MTD SERVICE FITTING, FLUSH TYPE UON ("S" DENOTES SURFACE TYPE)
- DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W., FLOOR MTD SERVICE FITTING, FLUSH TYPE UON ("S" DENOTES SURFACE TYPE)
- QUADRUPLEX RECEPTACLE, (2) 20A, 125V, 2P, 3W., FLOOR MTD SERVICE FITTING, FLUSH TYPE UON ("S" DENOTES SURFACE TYPE)
- WHERE INDICATED IN AN EXISTING FLOOR, PROVIDE CORE DRILL PACKAGE TO MAINTAIN FIRE RATING OF FLOOR. EXTEND CONDUIT AND WIRING IN CEILING SPACE OF FLOOR BELOW TO ELECTRICAL CLOSET OR PANELBOARD.
- FF — SYSTEM FURNITURE, WALL MOUNTED, POKE-THRU WITH COMBINATION POWER AND TELECOMMUNICATION CONNECTIONS. PROVIDE 2+2 WIRING SYSTEM WITH (2)CONTROLLED BRANCH CIRCUITS AND (2)NON-CONTROLLED BRANCH CIRCUITS. COORDINATE WITH SYSTEM FURNITURE MANUFACTURER TO PROVIDE NEC REQUIRED SYMBOL AND MARKING FOR RECEPTACLES THAT ARE FED FROM CONTROLLED BRANCH CIRCUITS.
- FFX — SYSTEM FURNITURE, FLOOR MOUNTED, POKE-THRU WITH COMBINATION POWER AND TELECOMMUNICATION CONNECTIONS. PROVIDE 2+2 WIRING SYSTEM WITH (2)CONTROLLED BRANCH CIRCUITS AND (2)NON-CONTROLLED BRANCH CIRCUITS. COORDINATE WITH SYSTEM FURNITURE MANUFACTURER TO PROVIDE NEC REQUIRED SYMBOL AND MARKING FOR RECEPTACLES THAT ARE FED FROM CONTROLLED BRANCH CIRCUITS.
- FBX — FLOOR BOX,("X" DENOTES TYPE AS SPECIFIED). SEE ELECTRICAL DEVICE ASSEMBLY SCHEDULE ON E0.2 SHEET FOR ADDITIONAL INFORMATION.
- PTX — POKE-THROUGH ASSEMBLY ("X" DENOTES TYPE AS SPECIFIED). SEE ELECTRICAL DEVICE ASSEMBLY SCHEDULE ON E0.2 SHEET FOR ADDITIONAL INFORMATION.
- MX — ABOVE GRADE FLOOR BOX MONUMENT ("X" DENOTES TYPE AS SPECIFIED). SEE ELECTRICAL DEVICE ASSEMBLY SCHEDULE ON E0.2 SHEET FOR ADDITIONAL INFORMATION.
- V — ABOVE THE CEILING JUNCTION BOX WITH POWER FOR VAV(VARIABLE AIR VOLUME) BOXES. CONNECT MAXIMUM OF (8)VAV'S PER 20A CIRCUIT. COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE WIRING FROM CPT TO VAV. / CONTROL POWER TRANSFORMER AND WIRING FROM SECONDARY OF TRANSFORMER BY MECHANICAL CONTRACTOR. COORDINATE FINAL LOCATION AND WIRING REQUIREMENTS WITH MECHANICAL DRAWINGS AND EQUIPMENT CONTROLS.
- D — ABOVE THE CEILING JUNCTION BOX WITH POWER FOR DOOR OPERATORS, SECURITY POWERED DEVICES, AND ADDITIONAL POWERED ACCESSORIES. CONCEAL CONDUIT FROM CARD READER AND ADA PUSHBUTTON TO DOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR DOOR SPECIFICATIONS AND SECURITY FOR WIRING INFORMATION. POWER TO BE CONCEALED FROM SIGHT.
- S — ABOVE THE CEILING JUNCTION BOX WITH POWER FOR LOW-VOLTAGE SPECIAL SYSTEMS DEVICES (IE. SECURITY CAMERAS). COORDINATE FINAL POWER LOCATION WITH AV/IT/SECURITY CONSULTANTS.
- J — JUNCTION BOX (CEILING, FLOOR OR WALL MOUNTED) INDICATED IN POWER, LIGHTING & FIRE ALARM SYSTEMS PLANS.
- DIRECT CONNECTION TO EQUIPMENT
- SR-X — SURFACE RACEWAY ("X" DENOTES TYPE AS SPECIFIED)
- HC — ADA DOOR ACTUATOR
- RRP — RECEPTACLE RELAY (20A) PANEL WITHIN NEMA 1 ENCLOSURE. COORDINATE WITH LIGHTING CONTROL DETAILS IN E6 SERIES FOR ADDITIONAL INFORMATION.
- TV — QUADRUPLEX RECEPTACLE FOR TELEVISION. COORDINATE LOCATION OF RECEPTACLE WITH T SERIES FOR MOUNTING HEIGHT AND ALIGNMENT WITH OTHER ADJACENT DEVICES.

ELECTRICAL EQUIPMENT SYMBOLS

- MOTOR AND CONNECTION
- DISCONNECT SWITCH, NON-FUSED PROVIDE SWITCH AMPACITY EQUAL TO OR GREATER THAN FEEDER AMPACITY, UON
- DISCONNECT SWITCH, FUSED. PROVIDE SWITCH AND FUSE AMPACITY EQUAL TO OR GREATER THAN FEEDER AMPACITY, UON
- CB — CIRCUIT BREAKER IN NEMA 1 ENCLOSURE (FLUSH/SURFACE)
- COMBINATION MOTOR STARTER WITH DISCONNECT SWITCH. PROVIDE SWITCH AND FUSE AMPACITY EQUAL TO OR GREATER THAN FEEDER AMPACITY, UON
- HAND-OFF-AUTO SELECTOR SWITCH WITH PILOT LIGHT
- M — MANUAL MOTOR STARTER WITH PILOT LIGHT AS INDICATED.
- PCU — PACKAGE CONTROL UNIT (PROVIDED BY EQUIPMENT SUPPLIER)
- VFD — VARIABLE FREQUENCY DRIVE/VARIABLE FREQUENCY MOTOR CONTROLLER
- ADA PUSHBUTTON STATION. PROVIDE RACEWAY AS REQUIRED TO CONNECT BUTTON JUNCTION BOX WIRING TO ABOVE CEILING DOOR POWER SUPPLY
- EMERGENCY POWER OFF
- C — CONTACTOR
- GROUNDING BUS BAR

GENERAL NOTES

A. PROVIDE 1#12 + 1#12N + 1#12G FOR 20A BRANCH CIRCUITING, UON; MAXIMUM OF THREE CIRCUITS PER CONDUIT; MINIMUM NON-SYSTEMS FURNITURE CONDUIT SIZE OF 3/4" C. MINIMUM SYSTEMS FURNITURE CONDUIT SIZE OF 1"C, UON.

B. PROVIDE A DEDICATED NEUTRAL WIRE FOR EACH BRANCH CIRCUIT.

C. COORDINATE DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

D. PROVIDE FIRE STOPPING FOR CONDUITS AND ELECTRICAL EQUIPMENT FOR FLOOR SLABS, WALLS AND CEILINGS TO MAINTAIN FIRE RATING.

E. INSTALL ELECTRICAL WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL BUILDING AND FIRE CODES, IN A NEAT AND WORKMANLIKE MANNER.

F. LIMIT VOLTAGE DROP TO 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS. INCLUDE DERATING FACTOR FOR ROOF-MOUNTED CONDUITS.

G. REFER TO ARCH. REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED DEVICES AND LIGHT FIXTURES, UNLESS OTHERWISE INDICATED.

H. WHERE MULTIPLE SWITCHES, RECEPTACLES, AND OTHER OUTLETS (EXCEPT WALL PHONES) ARE INDICATED PROVIDE MULTI-GANG BACK BOXES WITH GANG BARRIERS AND A COMMON FACEPLATE.

I. WHERE DIFFERENT RECESSED ELECTRICAL DEVICES WITH THE SAME MOUNTING HEIGHTS ARE INDICATED SIDE-BY-SIDE, MOUNT THE DEVICES SO THAT THERE IS FOUR INCHES BETWEEN ADJACENT VERTICAL EDGES OF THE FACEPLATES, UON.

J. WHERE ELECTRICAL DEVICES WITH DIFFERENT MOUNTING HEIGHTS ARE LOCATED IN THE SAME AREA ALIGN DEVICES VERTICALLY THROUGH THEIR CENTERLINES, UON.

K. WHERE EXIT SIGNS ARE INDICATED ABOVE DOOR MOUNT AS FOLLOWS, CENTER THE EXIT SIGN BETWEEN TOP OF DOOR FRAME AND CEILING IF DISTANCE BETWEEN TOP OF DOOR FRAME AND CEILING IS 24 INCHES OR LESS; OTHERWISE MOUNT BOTTOM OF EXIT SIGN 6 INCHES FROM TOP OF DOOR FRAME. MOUNT OTHER WALL MOUNTED EXIT SIGNS IN THE SAME AREA AT THE SAME HEIGHT. COORDINATE WITH ARCHITECTURAL DETAILS.

L. EXIT SIGNS ARE TO BE TYPE "X1", UON.

M. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.

N. PROVIDE FEEDERS AND BRANCH CIRCUITS WHICH HAVE AN AMPACITY EQUAL TO OR GREATER THAN THE CIRCUIT OVERCURRENT PROTECTIVE DEVICE RATING, U.O.N.

O. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.

P. MOUNT DEVICES FLUSH WITH CONCEALED CONDUIT, EXCEPT AS NOTED ON THE DRAWINGS AND IN MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS.

Q. THE DRAWINGS REPRESENT ELECTRICAL DESIGN INTENT. THEY ARE DIAGRAMMATIC. PROVIDE ALL COMPONENTS NECESSARY FOR COMPLETE OPERATING ELECTRICAL SYSTEMS.

R. CABLES AND CONDUCTORS ARE NOT TO BE PAINTED. GC TO COORDINATE WITH OTHER TRADES AND ARCHITECTURAL DRAWINGS TO ROUTE CABLING AND CONDUCTORS IN EMT CONDUIT THROUGH EXPOSED AREAS REQUIRING PAINT FINISH.

S. WHEN MORE THAN ONE 20A., 1P., 120 VOLT CIRCUIT FEEDS A SURFACE RACEWAY CONNECT RECEPTACLES TO ALTERNATE CIRCUITS AS FOLLOWS - U.O.N.

A B C A B C

T. DEMOLITION WORK, TEMPORARY POWER AND MODIFICATIONS TO MAINTAIN ELECTRICAL CONTINUITY TO EXISTING TO REMAIN/ RELOCATE SYSTEMS SHALL NOT INTERRUPT UPSTREAM GROUND FAULT PROTECTION WITHIN ANY UPSTREAM FEEDER CIRCUIT BREAKERS. ELECTRICAL CONTARCTOR TO SURVEY EXISTING GROUND FAULT PROTECTION WITHIN THE BUILDING AND COORDINATE DEMOLITION WORK, TEMPORARY POWER AND MODIFICATIONS TO MAINTAIN ELECTRICAL CONTNUITY TO EXISTING TO REMIAN SYSTEMS WITH GENERAL CONTARCTOR, DEMOLITION CREW AND OWNER PRIOR TO DEMOLITION TO AVOID GROUND FAULT DISRUPTIONS TO ANY PORTION OF THE BUILDINGS

MOUNTING HEIGHTS

DISCONNECT SWITCHES	5'-6" AFF
INDIVIDUAL CIRCUIT BREAKERS	5'-6" AFF
MOTOR STARTERS	5'-6" AFF
PANELBOARDS & CABINETS	6'-0" AFF TO TOP

MOUNTING HEIGHT NOTES:

1. ALL ELEVATIONS ARE TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.
2. REFER TO EQUIPMENT ELEVATION DRAWINGS FOR COORDINATION WITH CASEWORK.
3. MOUNT MANUAL MOTOR STARTER ADJACENT TO OR ON UNIT.
4. REFER TO ARCHITECTURAL A0 SERIES FOR ADDITIONAL ELECTRICAL DEVICE MOUNTING HEIGHTS AND DEVICE ALIGNMENT RULES.

REFERENCE SYMBOLS

- 1 / E0.1 — SECTION NUMBER; DRAWING NUMBER WHERE DRAWN
- DETAIL NUMBER; DRAWING NUMBER WHERE DRAWN
- (XXX) — KEY NOTE

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ISSUED FOR	REV	DATE
PERMIT DOCUMENTS		04/12/2021
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DESIGN DEVELOPMENT		03/09/2021
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE

ELECTRICAL ABBREVIATIONS AND SYMBOLS

PROJECT NUMBER 12808.000

CD

SHEET NUMBER 1.E.001

Author

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FEEDER & BRANCH CIRCUIT SIZING SCHEDULE - NONLINEAR LOADS

(NOTES 1 & 2)

OVERCURRENT DEVICE RATING (AMPERES)	WIRE SIZE - AWG OR KCMIL		CONDUIT SIZE			NOTE
	PHASE & NEUTRAL	E.G.	4 WIRE (2PH & 2N)	5 WIRE (NOTE-7)	6 WIRE (3PH & 3N)	
15-20	12	12	3/4"	3/4"	3/4"	
25-30	10	10	3/4"	3/4"	3/4"	
35-40	8	10	3/4"	1"	1"	
45-50	8(6)	10	3/4"(1")	1"	1"(1 1/4")	
60	6(4)	10	1"(1 1/4")	1"(1 1/4")	1 1/4"	
70	6(4)	8	1"(1 1/4")	1"(1 1/4")	1 1/4"	
80-90	4(2)	8	1 1/4"	1 1/4"(1 1/2")	1 1/4"(1 1/2")	
100	3(2)	8	1 1/4"	1 1/2"	1 1/2"	
110	2(1)	6	1 1/2"	2"	2"	
125	1(1/0)	6	1 1/2"(2")	2"	2"	
150	1/0	6	2"	2"	2"	
175	2/0	6	2"	2"	2 1/2"	
200	3/0	6	2"	2 1/2"	2 1/2"	
225	4/0	4	2 1/2"	2 1/2"	3"	
250	250	4	3"	3"	3"	
300	350	4	3"	3 1/2"	3 1/2"	
350	500	3	3 1/2"	4"	4"	
400	2-3/0	2-3	2-2"	2-2 1/2"	2-2 1/2"	
450	2-4/0	2-2	2-2 1/2"	2-2 1/2"	2-3"	
500	2-250	2-2	2-3"	2-3"	2-3"	
600	2-350	2-1	2-3"	2-3 1/2"	2-3 1/2"	
700	2-500	2-1/0	2-3 1/2"	2-4"	2-4"	
800	3-300	3-1/0	3-3"	3-3 1/2"	3-3 1/2"	
1000	3-400	3-2/0	3-3"	3-3 1/2"	3-4"	
1200	4-350	4-3/0	4-3"	4-3 1/2"	4-3 1/2"	
1600	5-400	5-4/0	5-3"	5-3 1/2"	5-4"	
2000	6-400	6-250	6-3"	6-3 1/2"	6-4"	

FEEDER & BRANCH CIRCUIT SIZING SCHEDULE - GENERAL PURPOSE

(NOTES 1 & 2)

OVERCURRENT DEVICE RATING (AMPERES)	WIRE SIZE - AWG OR KCMIL		CONDUIT SIZE			NOTE
	PHASE & NEUTRAL	E.G.	2 WIRE	3 WIRE	4 WIRE	
15-20	12	12	3/4"	3/4"	3/4"	
25-30	10	10	3/4"	3/4"	3/4"	
35-40	8	10	3/4"	3/4"	3/4"	
45-50	8(6)	10	3/4"	3/4"	3/4"(1")	
60	6(4)	10	3/4"(1")	3/4"(1")	1"(1 1/4")	
70	6(4)	8	3/4"(1")	3/4"(1")	1"(1 1/4")	
80-90	4(2)	8	1"	1"(1 1/4")	1 1/4"	
100	3(2)	8	1"(1 1/4")	1 1/4"	1 1/4"	
110	2(1)	6	1 1/4"	1 1/4"(1 1/2")	1 1/4"(1 1/2")	
125	1(1/0)	6	1 1/4"	1 1/2"	1 1/2"(2")	
150	1/0	6	1 1/4"	1 1/2"	2"	
175	2/0	6	1 1/2"	2"	2"	
200	3/0	6	1 1/2"	2"	2"	
225	4/0	4	2"	2"	2 1/2"	
250	250	4	2"	2 1/2"	2 1/2"	
300	350	4	2 1/2"	3"	3"	
350	500	3	3"	3"	3 1/2"	
400	2-3/0	2-3	2-2"	2-2"	2-2"	
450	2-4/0	2-2	2-2"	2-2"	2-2 1/2"	
500	2-250	2-2	2-2"	2-2 1/2"	2-2 1/2"	
600	2-350	2-1	2-2 1/2"	2-3"	2-3"	
700	2-500	2-1/0	2-3"	2-3"	2-3 1/2"	
800	3-300	3-1/0	3-2 1/2"	3-3"	3-3"	
1000	3-400	3-2/0	3-2 1/2"	3-3"	3-3"	
1200	4-350	4-3/0	4-2 1/2"	4-3"	4-3"	
1600	5-400	5-4/0	5-2 1/2"	5-3"	5-3"	
2000	6-400	6-250	6-2 1/2"	6-3"	6-3"	

480V., THREE PHASE CIRCUIT LENGTH TABLE

BREAKER AMPACITY (AMPS)	MAX. CIRCUIT LOAD (AMPS)	MAXIMUM LENGTH IN FEET																							
		NO.12	NO.10	NO.8	NO.6	NO.4	NO.2	NO.1	1/0	2/0	3/0	4/0	250	350	500	2-3/0	2-4/0	2-250	2-350	2-500	3-300	3-400	4-350	5-400	6-400	6-500
20	16	253	403	642	1019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	24	-	269	428	679	1079	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	32	-	-	321	509	809	1293	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	40	-	-	-	408	648	1034	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60	48	-	-	-	-	540	862	1083	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70	56	-	-	-	-	-	739	928	1169	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80	64	-	-	-	-	-	646	812	1023	1286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
90	72	-	-	-	-	-	574	722	909	1143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100	80	-	-	-	-	-	-	650	818	1029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
125	100	-	-	-	-	-	-	-	655	823	1043	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
150	120	-	-	-	-	-	-	-	546	689	869	1107	-	-	-	-	-	-	-	-	-	-	-	-	-	-
175	140	-	-	-	-	-	-	-	-	588	745	949	1110	-	-	-	-	-	-	-	-	-	-	-	-	-
200	160	-	-	-	-	-	-	-	-	-	652	830	971	1360	-	-	-	-	-	-	-	-	-	-	-	-
225	180	-	-	-	-	-	-	-	-	-	-	738	863	1209	1743	-	-	-	-	-	-	-	-	-	-	-
250	200	-	-	-	-	-	-	-	-	-	-	-	777	1088	1569	1043	-	-	-	-	-	-	-	-	-	-
300	240	-	-	-	-	-	-	-	-	-	-	-	-	907	1307	869	1107	-	-	-	-	-	-	-	-	-
350	280	-	-	-	-	-	-	-	-	-	-	-	-	-	1120	745	949	1110	-	-	-	-	-	-	-	-
400	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	652	830	971	1360	-	-	-	-	-	-	-
450	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	738	863	1209	-	-	-	-	-	-	-
500	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	777	1088	1569	-	-	-	-	-	-
600	480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	907	1307	1165	-	-	-	-	-
700	560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1120	999	1346	-	-	-	-
800	640	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	874	1177	1360	-	-	-
1000	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	942	1088	1569	-	-
1200	960	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	907	1307	-	-
1600	1200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	980	1226	1307
1800	1440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1089	1177
2000	1600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	980	1137

DRAWING NOTES

CIRCUIT SIZING SCHEDULES NOTES:

1. BASED ON THHN/THWN, 90°., 600V., INSULATED, COPPER WIRE APPLIED AT 75°FOR TERMINATIONS RATED AT 60°C/75°C AND 75°C. FOR TERMINATIONS RATED AT 60°C PROVIDE WIRE AND CONDUIT SIZES INDICATED IN PARENTHESIS.
2. BASED ON WIRE OUTSIDE DIAMETERS AND RIGID METALLIC CONDUIT INSIDE DIAMETERS AS PROVIDED IN THE NEC. DO NOT REDUCE CONDUIT SIZE FOR NON-RIGID METALLIC APPLICATION. REFER TO NEC FOR CONDUIT TYPES MORE RESTRICTIVE THAN RIGID METALLIC.
3. BASED ON MOTOR FULL LOAD AMPERES AS PROVIDED BY THE NEC.
4. BASED ON MOTOR RUNNING OVERLOAD PROTECTION PROVIDED BY THERMAL OVERLOAD RELAYS.
5. MOTOR STARTING TYPE BASED ON 460V., 3 PHASE, FULL VOLTAGE NON-REVERSING EXCEPT FOR MOTORS SIZED 75HP OR GREATER WHICH ARE BASED ON 460V., 3 PHASE, PART WINDING REDUCED VOLTAGE STARTING.
6. TRANSFORMER CIRCUITS BASED ON 480V TO 208/120V., 3 PHASE, 4 WIRE,DRY TYPE.

MOTOR CIRCUIT SIZING SCHEDULE

(FOR 460V., 3 PHASE MOTORS) (NOTES 3,4,5)

MOTOR HP	SWITCH/FUSE	CIRCUIT BREAKER	STARTER	CONDUIT & WIRE		
			SIZE/TYPE	PHASE	E.G.	CONDUIT
1/2	30/3A.	15A	1	12	12	3/4"
3/4	30/3A.	15A	1	12	12	3/4"
1	30/6A.	15A	1	12	12	3/4"
1 1/2	30/6A.	15A	1	12	12	3/4"
2	30/6A.	15A	1	12	12	3/4"
3	30/10A.	15A	1	12	12	3/4"
5	30/15A.	20A	1	12	12	3/4"
7 1/2	30/20A.	25A	1	12	12	3/4"
10	30/25A.	35A	1	12	12	3/4"
15	60/40A.	50A	2	10	10	3/4"
20	60/50A.	60A	2	8	10	3/4"
25	60/60A.	80A	2	6	8	3/4"
30	100/70A.	100A	3	6	8	3/4"
40	100/100A.	125A	3	4	6	1"
50	200/125A.	150A	3	3	6	1 1/4"
60	200/150A.	175A	4	1	6	1 1/4"
75	200/175A.	225A	4	1/0	4	1 1/2"
100	400/225A.	300A	4	2/0	4	2"
125	400/300A.	350A	5	3/0	3	2"
150	400/350A.	450A	5	4/0	2	2"
200	600/450A.	600A	5	350	1	2 1/2"

MOTOR CIRCUIT SIZING SCHEDULE

(FOR 208V., 3 PHASE MOTORS NOTES 3,4,5)

MOTOR HP	SWITCH/FUSE	CIRCUIT BREAKER	STARTER	CONDUIT & WIRE		
			SIZE/TYPE	PHASE	E.G.	CONDUIT
1/2	30/4A.	15A	1	12	12	3/4"
3/4	30/6.25A.	15A	1	12	12	3/4"
1	30/8A.	15A	1	12	12	3/4"
1 1/2	30/15A.	20A	1	12	12	3/4"
2	30/15A.	20A	1	12	12	3/4"
3	30/20A.	25A	1	12	12	3/4"
5	30/30A.	40A	1	10	10	3/4"
7 1/2	60/45A.	60A	1	8	10	3/4"
10	60/60A.	70A	2	8	8	3/4"
15	100/90A.	110A	3	4	6	1"
20	200/110A.	125A	3	3	6	1 1/4"
25	200/150A.	175A	3	2	6	1 1/4"
30	200/175A.	200A	4	1	6	1 1/4"
40	200/200A.	250A	4	1/0	4	1 1/2"
50	400/250A.	350A	5	3/0	3	2"
60	400/300A.	400A	5	4/0	3	2"
75	400/400A.	500A	5	300	2	2 1/2"
100	600/500A.	600A	6	500	1	3"
125	800/700A.	800A	6	2-4/0	2-1/0	2-2"
150	800/700A.	800A	6	2-250	2-1/0	2-2"
200	1200/1000A	1200A	7	2-400	2-3/0	2-2 1/2"

TRANSFORMER CIRCUIT SIZING SCHEDULE - GENERAL PURPOSE TYPE

(NOTE 6)

TRANSF. KVA	PRIMARY CIRCUIT (480V.)		SECONDARY CIRCUIT (208/120V.)		
	SWITCH/FUSE OR CIRCUIT BREAKER	PRIMARY FEEDER	SWITCH/FUSE OR CIRCUIT BREAKER	SYSTEM/EQUIPMENT BONDING JUMPER (GROUND WIRE)	SECONDARY FEEDER
9	30/20A.	20A., 3W.	30/30A.	#8	30A., 4W.
15	30/25A.	25A., 3W.	60/60A.	#8	60A., 4W.
30	60/45A.	45A., 3W.	100/100A.	#8	100A., 4W.
45	100/70A.	70A., 3W.	200/175A.	#4	175A., 4W.
75	200/125A.	125A., 3W.	400/300A.	#2	300A., 4W.
112 1/2	200/175A.	175A., 3W.	400/400A.	#1/0	400A., 4W.
150	400/225A.	225A., 3W.	600/600A.	#2/0	600A., 4W.
225	400/350A.	350A., 3W.	800/800A.	#3/0	800A., 4W.
300	600/500A.	500A., 3W.	1200/1000A.	#3/0	1000A., 4W.

TRANSFORMER CIRCUIT SIZING SCHEDULE -NONLINEAR LOAD TYPE

(NOTE 6)

TRANSF. KVA	PRIMARY CIRCUIT (480V.)		SECONDARY CIRCUIT (208/120V.)		
	SWITCH/FUSE OR CIRCUIT BREAKER	PRIMARY FEEDER	SWITCH/FUSE OR CIRCUIT BREAKER	SYSTEM/EQUIPMENT BONDING JUMPER (GROUND WIRE)	SECONDARY FEEDER
9	30/20A.	20A., 3W.	30/30A.	#8	30A., 5W.-NL
15	30/25A.	25A., 3W.	60/60A.	#8	60A., 5W.-NL
30	60/45A.	45A., 3W.	100/100A.	#8	100A., 5W.-NL
45	100/70A.	70A., 3W.	200/175A.	#4	175A., 5W.-NL
75	200/125A.	125A., 3W.	400/300A.	#2	300A., 5W.-NL
112 1/2	200/175A.	175A., 3W.	400/400A.	#1/0	400A., 5W.-NL
150	400/225A.	225A., 3W.	600/600A.	#2/0	600A., 5W.-NL
225	400/350A.	350A., 3W.	800/800A.	#3/0	800A., 5W.-NL

POKE-THRU ASSEMBLY SCHEDULE

TAG	DEVICE SIZE	CONFIGURATION	B.O.D. DEVICE MODEL	B.O.D. COVER MODEL	FINISHES	CONTROLLED DUPLEX RECEPTACLE QUANTITY	NON-CONTROLLED DUPLEX RECEPTACLE QUANTITY	I.T. GANG(S)	A.V. GANG(S)	NOTES
PT3	7 1/4" D X 16 1/4" H	3-GANGS OF CAPACITY	WIREMOLD, EVOLUTION, 6AT SERIES OR APPROVED EQUAL	DIE-CAST ALUMINUM FLUSH STYLE COVER: 6AT2PXX	COORDINATION POWDER COATED FINISH WITH ARCHITECT	0	2	0	1	

FURNITURE FEED ASSEMBLY SCHEDULE

TAG	DEVICE SIZE	CONFIGURATION	B.O.D. DEVICE MODEL	B.O.D. COVER MODEL	FINISHES	POWER CONDUIT	I.T./A.V. CONDUIT	APPLICATION	NOTES
FF2	8 1/4" D X 16 9/16" H	2-GANGS OF CAPACITY	WIREMOLD, EVOLUTION, 4FFATC15 SERIES OR APPROVED EQUAL	DIE-CASE ALUMINUM FLUSH STYLE COVER: 4FFATCXX	COORDINATION POWDER COATED FINISH WITH ARCHITECT	1" MINIMUM	REFERENCE T SERIES DRAWINGS	POKE-THRU APPLICATION, SEE E6 SERIES FOR DETAILS	(1)

GENERAL NOTES:
1. COORDINATE WITH AVIT DRAWINGS FOR ALL DATA AND AV REQUIREMENTS.
2. ALL DEVICES LISTED SHALL BE RECESSED, PRE-WIRED, AND COMPLETE MINIMUM 2-HOUR, FIRE-RATED ASSEMBLIES.
3. ACCESSORIES FOR COMPLETE DEVICE CONNECTIONS SHALL BE PROVIDED FOR ALL LISTED DEVICES.
4. PROVIDE VOLTAGE DIVIDER TO SEPARATE LOW VOLTAGE COMPARTMENTS FROM 120V POWER COMPARTMENTS.
5. COORDINATE WITH ARCHITECT TO FEATHER AROUND BOX AND ENSURE FINISH IS FLUSH. CONTRACTOR TO PROVIDE AND INSTALL ALL ACCESSORIES TO MAKE FLOORBOX DEVICE FLUSH WITH FLOORING.

KEYED NOTES:
(1)PROVIDE DEVICE MOUNTING PLATE FOR PASS-THRU FOR LOW VOLTAGE CABLES.

120V. SINGLE PHASE CIRCUIT LENGTH TABLE

BREAKER AMPACITY (AMPS)	MAX. CIRCUIT CURRENT (AMPS)	MAX. CIRCUIT LOAD (VA)	MAXIMUM LENGTH IN FEET				
			NO.12	NO.10	NO.8	NO.6	NO.4
20	4	480	220	349	556	882	-
	8	960	110	174	278	441	701
	12	1440	73	116	185	294	467
	16	1920	55	87	139	221	350
30	24	2880	-	58	93	147	234
40	32	3840	-	-	70	110	175
50	40	4800	-	-	-	88	140
60	48	5760	-	-	-	-	117

208V. SINGLE PHASE CIRCUIT LENGTH TABLE

BREAKER AMPACITY (AMPS)	MAX. CIRCUIT CURRENT (AMPS)	MAX. CIRCUIT LOAD (VA)	MAXIMUM LENGTH IN FEET				
			NO.12	NO.10	NO.8	NO.6	NO.4
20	4	832	380	605	964	-	-
	8	1664	190	302	482	765	-
	12	2496	127	202	321	510	810
	16	3328	95	151	241	382	607
30	24	4992	-	101	161	255	405
40	32	6656	-	-	121	191	304
50	40	8320	-	-	-	153	243
60	48	9984	-	-	-	-	202

208V. THREE PHASE CIRCUIT LENGTH TABLE

BREAKER AMPACITY (AMPS)	MAX. CIRCUIT CURRENT (AMPS)	MAX. CIRCUIT LOAD (VA)	MAXIMUM LENGTH IN FEET				
			NO.12	NO.10	NO.8	NO.6	NO.4
20	4	1440	439	698	1113	-	-
	8	2880	220	349	557	883	-
	12	4320	127	233	371	589	935
	16	5760	95	175	278	442	701
30	24	8640	-	116	186	294	468
40	32	11520	-	-	139	221	351
50	40	14400	-	-	-	177	281
60	48	17280	-	-	-	-	234

277V. SINGLE PHASE CIRCUIT LENGTH TABLE

BREAKER AMPACITY (AMPS)	MAXIMUM LENGTH IN FEET	
	NO.12	NO.10
20	200	300

CIRCUIT MAXIMUM DISTANCE TABLES

NOTES:

1. CIRCUIT MAXIMUM DISTANCE IS BASED ON NEC CHAPTER 9, TABLE 8 CONDUCTOR PROPERTIES FOR COATED COPPER CONDUCTORS AT 75 DEGREES CELSIUS.

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SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

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SHEET TITLE
ELECTRICAL SCHEDULES

PROJECT NUMBER 12808.000

CD 1.E.002
SHEET NUMBER

Author

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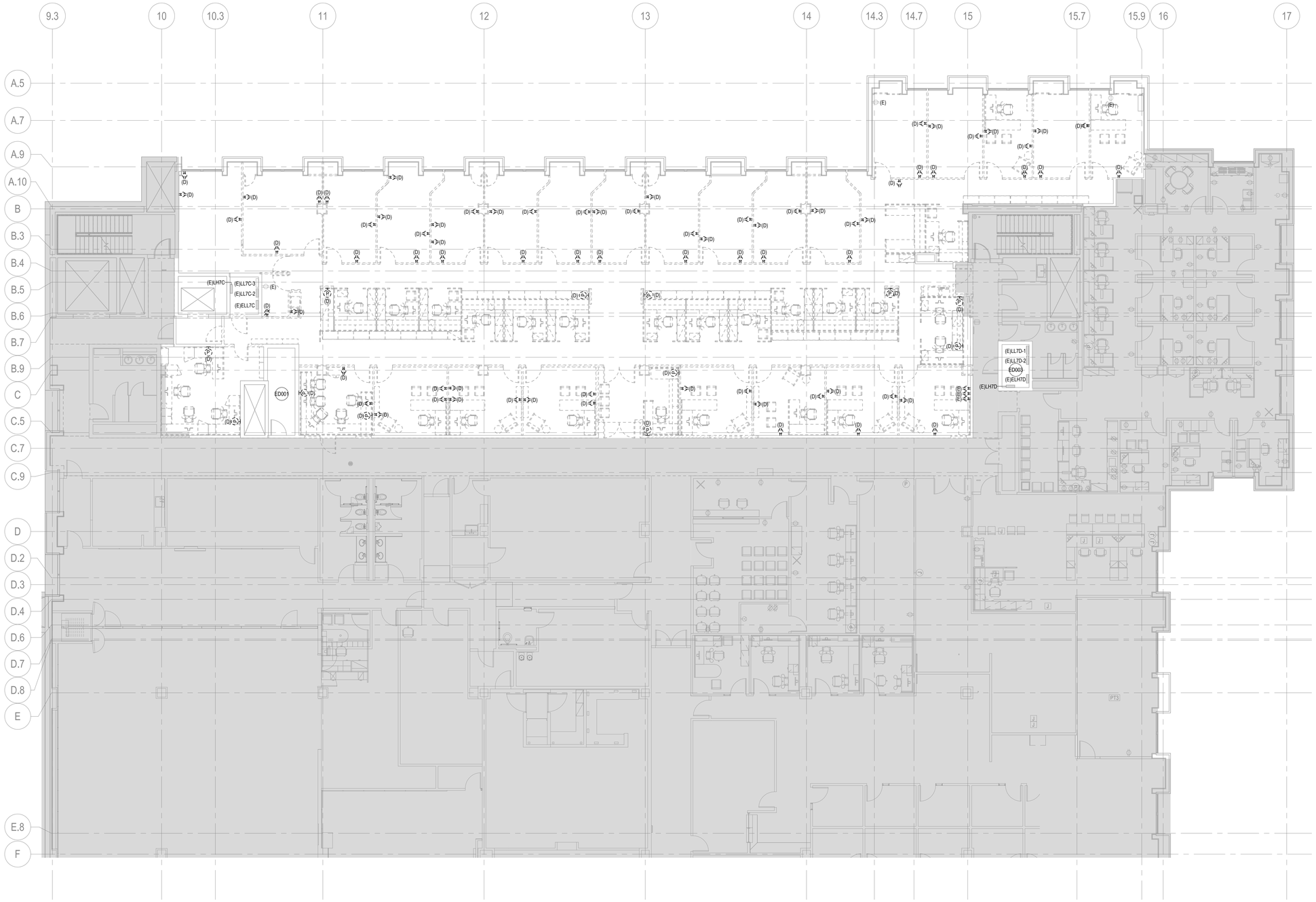

1 FOURTH LEVEL ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. COORDINATE WITH E5 SERIES FOR ADDITIONAL DEMOLITION INFORMATION OF ELECTRICAL EQUIPMENT.
B. DEMOLISH EQUIPMENT AND DEVICES INDICATED WITH SUBSCRIPT (D) REMOVE ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, BRANCH CIRCUITS AND FEEDERS IN THEIR ENTIRETY BACK TO THEIR POINT OF ORIGIN UON. TURN OFF AND LABEL CIRCUIT BREAKERS AS SPARES FOR NEW WORK.
C. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL ENERGIZATION TO DOWNSTREAM DEVICES THAT ARE EXISTING TO REMAIN.
D. MAINTAIN AND PRESERVE EXISTING TO REMAIN EQUIPMENT AND DEVICES INDICATED WITH SUBSCRIPT (E) AND ASSOCIATED CONDUIT, WIRING, CIRCUIT CONTINUITY. PROTECT FROM DAMAGE DURING CONSTRUCTION.
E. RELOCATE EQUIPMENT AND DEVICES INDICATED WITH SUBSCRIPT (R) AS INDICATED ON NEW WORK PLANS. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED TO MAINTAIN FEEDER AND CIRCUIT CONTINUITY.
F. SEE MECHANICAL DRAWINGS FOR EXISTING TO REMAIN MECHANICAL EQUIPMENTAND MAINTAIN ALL ASSOCIATED ELECTRICAL DEVICES, RACEWAY AND CIRCUIT CONTINUITY.
G. SEE MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT TO BE DEMOLISHED AND DEMOLISH ASSOCIATED CONTROLLER, DISCONNECT, WIRING AND CONDUIT IN THEIR ENTIRETY BACK TO THEIR POINT OF ORIGIN UON.
H. QUANTITY AND LOCATION OF DEVICES SHOWN ON PLANS ARE APPROXIMATE. FIELD VERIFY DEVICES AND LOCATIONS.
I. PROTECT EXISTING-TO-REMAIN CEILING, FLOORS, WALLS AND PANELS.
J. SELECT DEMOLITION MAY BE REQUIRED FOR NEW CONSTRUCTION AND MAY NOT BE DELINEATED ON THIS DRAWING. CAREFULLY COORDINATE DEMOLITION WITH NEW CONSTRUCTION (PARTITION AND REFLECTED CEILING) PLANS TO VERIFY ACTUAL EXTENT OF DEMOLITION.
K. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM INCIDENTAL ELECTRICAL DEMOLITION WORK AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
L. RECYCLE OR DISPOSE MATERIALS OFF SITE AND INCLUDE ALL COSTS IN BID. HANDLE ALL MATERIALS IN ACCORDANCE WITH LEED REQUIREMENTS, ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
M. PATCH, REPAIR, AND PAINT TO MATCH NEW FINISHES WHERE DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
N. WHERE EXISTING BUILDING SERVICES AND/OR EQUIPMENT THAT IS TO REMAIN IN USE ARE REQUIRED TO BE SHUT DOWN, COORDINATE WITH THE OWNER'S REPRESENTATIVE. INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS. INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWN MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT-DOWNS WITH THE OWNER AT CONSTRUCTION KICK OFF TO MINIMIZE DURATION OF DISRUPTIONS AND WITH ADVANCE NOTICE THAT STAISFIES OWNER.
O. PROVIDE CODE-COMPLIANT SUPPORT TO EXISTING-TO-REMAIN UNSUPPORTED CONDUITS AND BOXES WHERE CEILINGS ARE TO BE REMOVED. RE-ROUTE BRANCH CIRCUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
P. PROVIDE NEW TYPED DIRECTORIES FOR PANELBOARDS AFFECTED BY DEMOLITION WORK.
Q. AREA WITHIN GRAY HATCH IS OUT OF SCOPE. PRESERVE AND MAINTAIN ELECTRICAL SYSTEMS WITHIN OUT OF SCOPE AREA. OUT OF SCOPE SYSTEMS TO REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION
R. DEMOLITION WORK, TEMPORARY POWER AND MODIFICATIONS TO MAINTAIN ELECTRICAL CONTINUITY TO EXISTING TO REMAIN/RELOCATE SYSTEMS SHALL NOT INTERRUPT UPSTREAM GROUND FAULT PROECTION WITHIN ANY UPSTREAM FEEDER CIRCUIT BREAKERS. ELECTRICAL CONTRACTOR TO SURVEY EXISTING GROUND FAULT PROTECTION WITHIN THE BUILDING AND COORDINATE DEMOLITION WORK, TEMPORARY POWER AND MODIFICATIONS TO MAINTAIN ELECTRICAL CONTINUITY TO EXISTING TO REMAIN SYSTEMS WITH GENERAL CONTRACTOR, DEMOLITION CREW AND OWNER PRIOR TO DEMOLITION TO AVOID GROUND FAULT DISRUPTIONS TO ANY PORTION OF THE BUILDING

SHEET KEYNOTES

ED003 ALL ITEMS IN ROOM ARE EXISTING TO REMAIN.

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DESIGN DEVELOPMENT		03/09/2021
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

PROJECT AREA

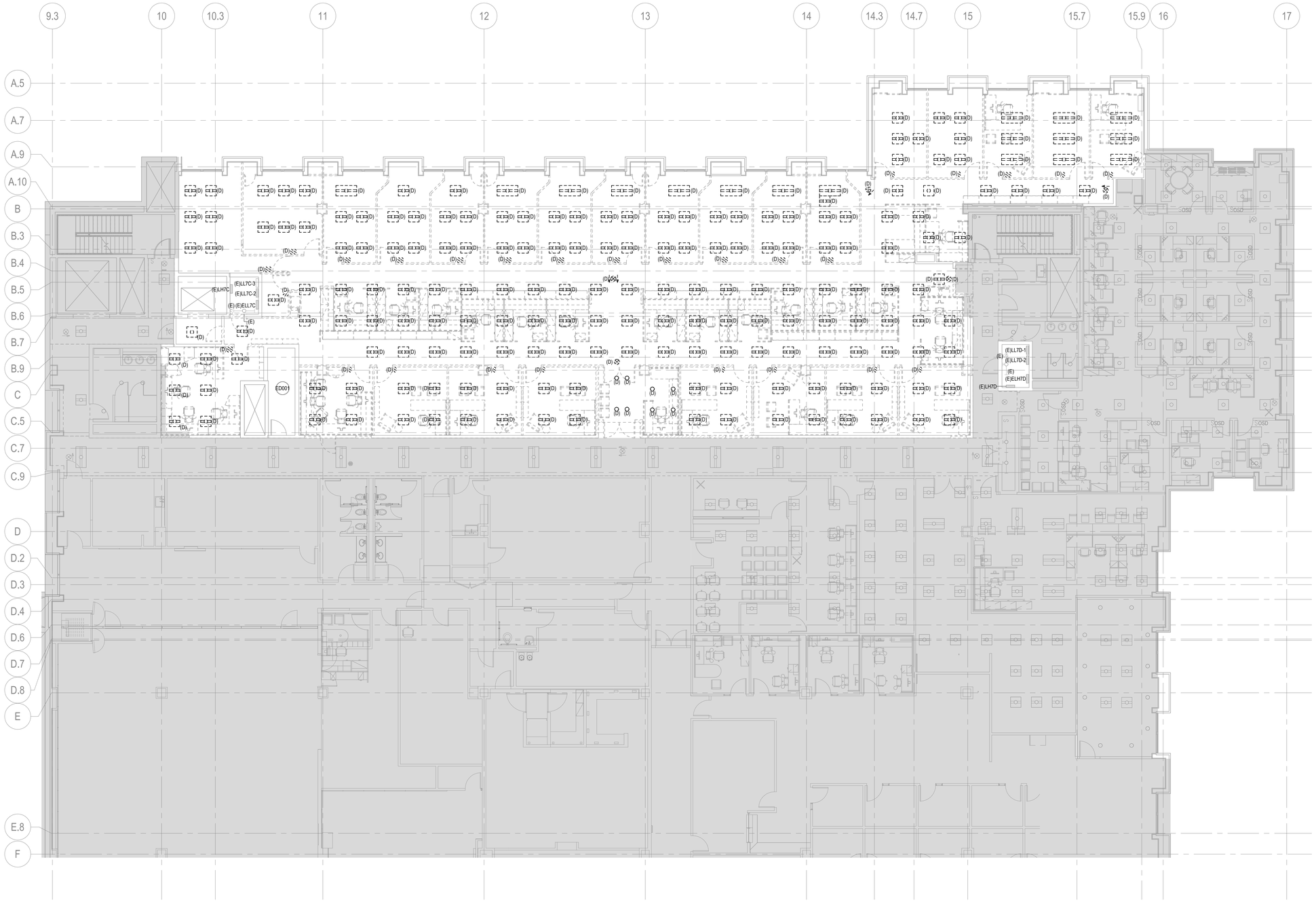
SHEET TITLE
DEMOLITION POWER PLAN - FOURTH FLOOR

PROJECT NUMBER
12808.000

CD
SHEET NUMBER
1.ED.204

Author

Plot Date: 4/12/2021 6:02:23 PM



1 FOURTH LEVEL ELECTRICAL DEMOLITION LIGHTING PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. COORDINATE WITH E5 SERIES FOR ADDITIONAL DEMOLITION INFORMATION OF ELECTRICAL EQUIPMENT.
B. DEMOLISH EQUIPMENT AND DEVICES INDICATED WITH SUBSCRIPT (D) REMOVE ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, BRANCH CIRCUITS AND FEEDERS IN THEIR ENTIRETY BACK TO THEIR POINT OF ORIGIN UON. TURN OFF AND LABEL CIRCUIT BREAKERS AS SPARES FOR NEW WORK.
C. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL ENERGIZATION TO DOWNSTREAM DEVICES THAT ARE EXISTING TO REMAIN.
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G. SEE MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT TO BE DEMOLISHED AND DEMOLISH ASSOCIATED CONTROLLER, DISCONNECT, WIRING AND CONDUIT IN THEIR ENTIRETY BACK TO THEIR POINT OF ORIGIN UON.
H. QUANTITY AND LOCATION OF DEVICES SHOWN ON PLANS ARE APPROXIMATE. FIELD VERIFY DEVICES AND LOCATIONS.
I. PROTECT EXISTING-TO-REMAIN CEILING, FLOORS, WALLS AND PANELS.
J. SELECT DEMOLITION MAY BE REQUIRED FOR NEW CONSTRUCTION AND MAY NOT BE DELINEATED ON THIS DRAWING. CAREFULLY COORDINATE DEMOLITION WITH NEW CONSTRUCTION (PARTITION AND REFLECTED CEILING) PLANS TO VERIFY ACTUAL EXTENT OF DEMOLITION.
K. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM INCIDENTAL ELECTRICAL DEMOLITION WORK AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES. WHETHER OR NOT SPECIFICALLY INDICATED.
L. RECYCLE OR DISPOSE MATERIALS OFF SITE AND INCLUDE ALL COSTS IN BID. HANDLE ALL MATERIALS IN ACCORDANCE WITH LEED REQUIREMENTS, ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
M. PATCH, REPAIR, AND PAINT TO MATCH NEW FINISHES WHERE DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
N. WHERE EXISTING BUILDING SERVICES AND/OR EQUIPMENT THAT IS TO REMAIN IN USE ARE REQUIRED TO BE SHUT DOWN, COORDINATE WITH THE OWNER'S REPRESENTATIVE. INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS. INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWN MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT-DOWNS WITH THE OWNER AT CONSTRUCTION KICK OFF TO MINIMIZE DURATION OF DISRUPTIONS AND WITH ADVANCE NOTICE THAT STAISFIES OWNER.
O. PROVIDE CODE-COMPLIANT SUPPORT TO EXISTING-TO-REMAIN UNSUPPORTED CONDUITS AND BOXES WHERE CEILINGS ARE TO BE REMOVED. RE-ROUTE BRANCH CIRCUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
P. PROVIDE NEW TYPED DIRECTORIES FOR PANELBOARDS AFFECTED BY DEMOLITION WORK.
Q. AREA WITHIN GRAY HATCH IS OUT OF SCOPE. PRESERVE AND MAINTAIN ELECTRICAL SYSTEMS WITHIN OUT OF SCOPE AREA. OUT OF SCOPE SYSTEMS TO REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION
R. DEMOLITION WORK, TEMPORARY POWER AND MODIFICATIONS TO MAINTAIN ELECTRICAL CONTINUITY TO EXISTING TO REMAIN/RELOCATE SYSTEMS SHALL NOT INTERRUPT UPSTREAM GROUND FAULT PROECTION WITHIN ANY UPSTREAM FEEDER CIRCUIT BREAKERS. ELECTRICAL CONTRACTOR TO SURVEY EXISTING GROUND FAULT PROTECTION WITHIN THE BUILDING AND COORDINATE DEMOLITION WORK, TEMPORARY POWER AND MODIFICATIONS TO MAINTAIN ELECTRICAL CONTINUITY TO EXISTING TO REMAIN SYSTEMS WITH GENERAL CONTRACTOR, DEMOLITION CREW AND OWNER PRIOR TO DEMOLITION TO AVOID GROUND FAULT DISRUPTIONS TO ANY PORTION OF THE BUILDING

SHEET KEYNOTES

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE
DEMOLITION LIGHTING PLAN - FOURTH FLOOR

PROJECT NUMBER
12808.000

CD
SHEET NUMBER
1.ED.304

Author

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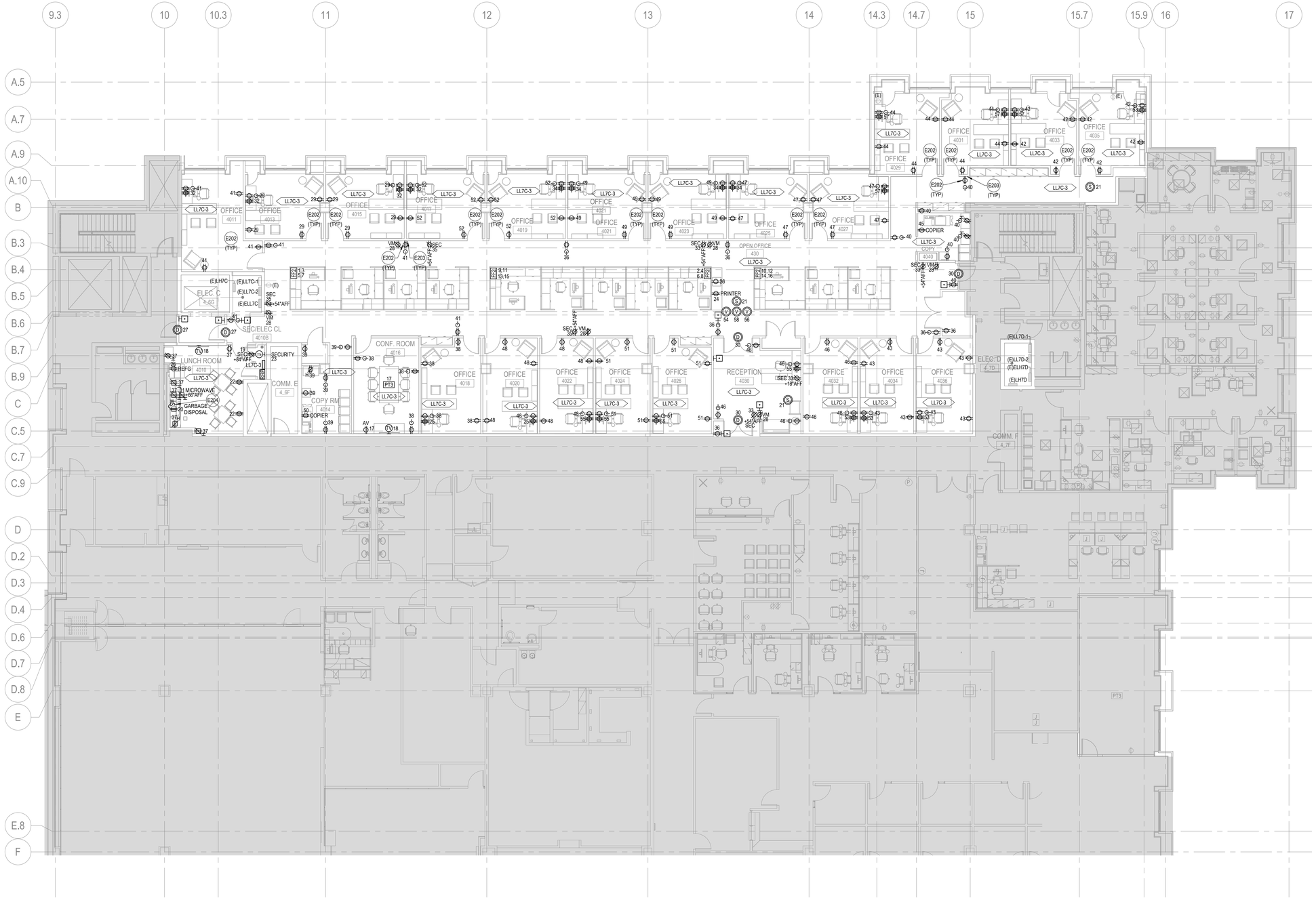

1 FOURTH LEVEL ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. SEE E0 SERIES COVER SHEET FOR ABBREVIATIONS, SYMBOLS, GENERAL NOTES AND DEVICE MOUNTING HEIGHT OF WALL MOUNTED DEVICES, UON.
B. SEE E6 AND E7 SERIES FOR RECEPTACLE CONTROL DETAILS AND PROGRAMMING.
C. LIMIT VOLTAGE DROP TO 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS.
D. CONTRACTOR SHALL SCAN FLOORS PRIOR TO CORE DRILLING FOR POKE-THRU DEVICES. COORDINATE CORE DRILLING WITH OWNER.
E. COORDINATE ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
F. ARCHITECT HAS FINAL APPROVAL OVER ALL FINISHES.
G. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EQUIPMENT POWER CONNECTIONS WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
H. WHERE GENERAL PURPOSE RECEPTACLES ARE SHOWN WITHIN 2'-0" OF A LIGHTING CONTROL DEVICE, VERTICALLY ALIGN RECEPTACLE AND LIGHTING CONTROL DEVICE ON CENTER
I. FOR WORKSTATION CIRCUITS SHARING A NEUTRAL, PROVIDE APPROVED TIE BREAKERS AS PER NEC.
J. TRIPPING OF GFCI RECEPTACLES SHALL NOT AFFECT THE DOWNSTREAM RECEPTACLES.
K. PROVIDE NEC REQUIRED SWITCH SYMBOL ON ALL SWITCHED RECEPTACLE COVER PLATES.
L. PROVIDE CIRCUITING LABELS ON THE UNDERSIDE OF ALL DEVICE FACEPLATES. COORDINATE WITH SPECIFICATION SECTION.
M. COORDINATE FINAL LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT AND ASSOCIATED DISCONNECT SWITCHES, STARTERS, VFDS, CONTROL POWER AND OTHER POWER REQUIREMENTS WITH DIV 22 AND 23.
N. SEE MECHANICAL EQUIPMENT SCHEDULE FOR ASSOCIATED OVERCURRENT DEVICES, DISCONNECT SWITCHES, STARTERS, AND WIRES.
O. PROVIDE 20A, 277V OR 120V CIRCUITS FROM NEAREST 480Y/277V OR 208Y/120V PANELBOARD SPARE FOR MECHANICAL EQUIPMENT AS REQUIRED BY EQUIPMENT MANUFACTURER AND CONTROLS VENDOR.
P. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXISTING TO RELOCATE VAV BOX CONTROL WIRING. PROVIDE 20A, 120V CIRCUIT FROM NEAREST 208Y/120V PANELBOARD SPARE FOR CONTROL POWER TRANSFORMERS AS REQUIRED.
Q. LOCATE 20A, 120V VAV POWER CONNECTION ABOVE CEILING. CIRCUIT TO POWER ALL CONTROL POWER TRANSFORMERS IN SPACE. COORDINATE FINAL LOCATION AND WIRING REQUIREMENTS WITH MECHANICAL DRAWINGS AND EQUIPMENT CONTROLS. CONNECT A MAX OF 8 VAV'S PER 20A CIRCUIT.
R. CONTRACTOR SHALL COORDINATE AND FIELD VERIFY REQUIREMENT OF NEUTRAL CONDUCTOR FOR ALL EQUIPMENT AND PROVIDE NEUTRAL CONDUCTOR AS NECESSARY.
S. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING ANY REQUIRED TRANSFORMER/POWER SUPPLIES FOR DOOR HARDWARE. COORDINATE WITH ARCHITECTURAL AND SECURITY DRAWINGS FOR DOOR HARDWARE. PROVIDE 20A, 120V CIRCUIT FROM NEAREST 208Y/120V PANELBOARD SPARE AS REQUIRED.
T. SEE AV AND IT DRAWINGS, FOR ADDITIONAL TELECOMMUNICATIONS CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
U. DEVICES PLACED IN E2 SERIES IS FOR REFERENCE ONLY. SEE ARCHITECTURAL PLANS FOR FINAL DEVICE LOCATION
V. AREA WITHIN GRAY HATCH IS OUT OF SCOPE. PRESERVE AND MAINTAIN ELECTRICAL SYSTEMS WITHIN OUT OF SCOPE AREA. OUT OF SCOPE SYSTEMS TO REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION.

SHEET KEYNOTES

E202 COORDINATE WITH INTERIOR CLERESTORY ELEVATIONS TO CONCEAL ALL RACEWAYS FROM VIEW WITHIN PARTITION DRYWALLS AND AVOID OBSTRUCTING VISIBILITY THROUGH CLERESTORY. SUBMIT COORDINATION DRAWINGS AS ACTION SUBMITTAL FOR REVIEW PRIOR TO INSTALLING RACEWAY IN PARTITIONS WITH CLERESTORIES. SEE INTERIOR ELEVATIONS FOR TYPICAL ROUTING.

E203 PROVIDE 3/4" CONDUIT FOR ALL SECURITY DEVICES AT ALL WALLS WITH CLERESTORIES. ROUTE ALL RACEWAY HORIZONTALLY AT 44"AFF. COORDINATE WITH INTERIOR CLERESTORY ELEVATIONS TO CONCEAL ALL RACEWAYS FROM VIEW WITHIN PARTITION DRYWALLS AND AVOID OBSTRUCTING VISIBILITY THROUGH CLERESTORY. SUBMIT COORDINATION DRAWINGS AS ACTION SUBMITTAL FOR REVIEW PRIOR TO INSTALLING RACEWAY IN PARTITIONS WITH CLERESTORIES. SEE INTERIOR ELEVATIONS FOR TYPICAL ROUTING.

E204 MOTOR RATED SWITCH FOR GARBAGE DISPOSAL SHOWN. COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE CORD AND PLUG GARBAGE DISPOSAL.

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE
POWER FLOOR PLAN - FOURTH FLOOR

PROJECT NUMBER
12808.000

CD

SHEET NUMBER
1.E.204

Author

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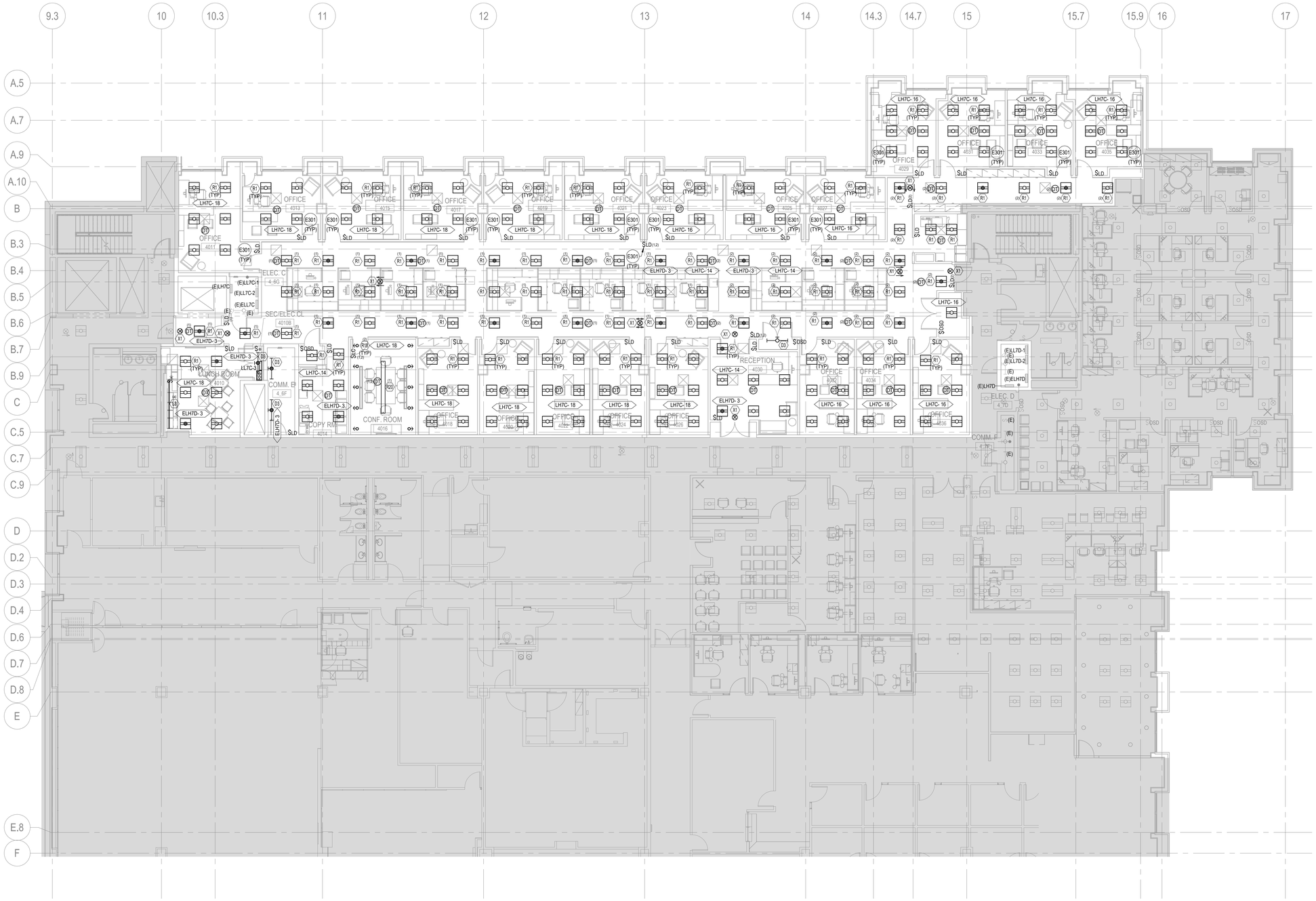

1 FOURTH LEVEL ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. SEE E0 SERIES COVER SHEET FOR ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES.
B. SEE E6 AND E7 SERIES FOR LIGHTING CONTROL DETAILS AND PROGRAMMING.
C. LIMIT VOLTAGE DROP TO 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS.
D. PROVIDE MINIMUM SIZE OF #10 AWG LIGHTING BRANCH CIRCUIT WIRING. COORDINATE FINAL WIRE SIZE REQUIRED WITH SCHEDULES ON E0 SERIES SCHEDULE SHEET.
E. PROVIDE DEDICATED NEUTRALS FOR EACH DIMMING CIRCUIT.
F. PROVIDE UL 924 DEVICES TO CONTROL EMERGENCY LIGHTING WITH NORMAL LIGHTING DURING NORMAL OPERATION AND PROVIDE FULL OUTPUT OF EMERGENCY FIXTURE UPON LOSS OF POWER OR EMERGENCY SIGNAL FROM FIRE ALARM SYSTEM.COORDINATE WITH E6 AND E7 SERIES. PROVIDE QUANTITY OF DEVICES FOR EACH ZONE/SPACE AND ALL ACCESSORIES AND WIRING REQUIRED PER MANUFACTURER'S WIRING INSTRUCTIONS.
G. COORDINATE PROPER WIRE TYPE AND QUANTITY WITH MANUFACTURER.
H. GANG ALL SWITCHES UNDER ONE PLATE WHERE MULTIPLE ADJACENT SWITCHES ARE SHOWN. PROVIDE BARRIERS BETWEEN SWITCHES CONNECTED TO DIFFERENT CIRCUITS. WHERE MORE THAN ONE SWITCH IS SHOWN AT ANY ONE LOCATION, MOUNT WITHIN SINGLE FACEPLATE.
I. COORDINATE ALL WALL MOUNTED WIRING DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS AND LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN. REFER TO ARCH. REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES AND OTHER CEILING MOUNTED DEVICES.
J. COORDINATE ALL DEVICE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF MECHANICAL THERMOSTATS AND ALIGN WITH LIGHTING CONTROL AS NOTED IN ARCHITECTURAL ELEVATIONS.
K. COORDINATE FIXTURES WITH ARCHITECTURAL CEILING AND WALL TYPES. ARCHITECT HAS FINAL APPROVAL OVER ALL FINISHES.
L. PROVIDE SWITCH LEGS, UNSWITCHED PHASE WIRES AND TRAVELLERS AS NECESSARY. THE LIGHTING CIRCUITING IS DIAGRAMMATIC.
M. EXIT SIGNS TO BE READILY VISIBLE, UNOBSTRUCTED, UNSWITCHED AND CONNECTED TO NEAREST EMERGENCY CIRCUIT.
N. LOCATE ALL CEILING MOUNTED OCCUPANCY SENSORS AND EXIT SIGNS MOUNTED IN OPEN CEILINGS AT HEIGHT SO THAT TOP OF DEVICE IS ALIGNED WITH LOWEST ADJACENT CEILING TO MAINTAIN INTENDED OPERATIONAL RANGE AND VISIBILITY.
O. FIELD COORDINATE LIGHT FIXTURE LOCATIONS AND MOUNTING REQUIREMENTS IN ELECTRICAL, MECHANICAL AND TELECOM ROOMS WITH EQUIPMENT, DUCTS, PIPING, TELECOM, SECURITY, AND ALL UTILITIES IN SPACE.
P. AREA WITHIN GRAY HATCH IS OUT OF SCOPE. PRESERVE AND MAINTAIN ELECTRICAL SYSTEMS WITHIN OUT OF SCOPE AREA. OUT OF SCOPE SYSTEMS TO REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION.

SHEET KEYNOTES

E301 COORDINATE WITH INTERIOR CLERESTORY ELEVATIONS TO CONCEAL ALL RACEWAYS FROM VIEW WITHIN PARTITION DRYWALLS AND AVOID OBSTRUCTING VISIBILITY THROUGH CLERESTORY. SUBMIT COORDINATION DRAWINGS AS ACTION SUBMITTAL FOR REVIEW PRIOR TO INSTALLING RACEWAY IN PARTITIONS WITH CLERESTORIES. SEE INTERIOR ELEVATIONS FOR TYPICAL ROUTING.

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KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE
LIGHTING FLOOR PLAN - FOURTH FLOOR

PROJECT NUMBER
12808.000

SHEET NUMBER
CD 1.E.304

Author

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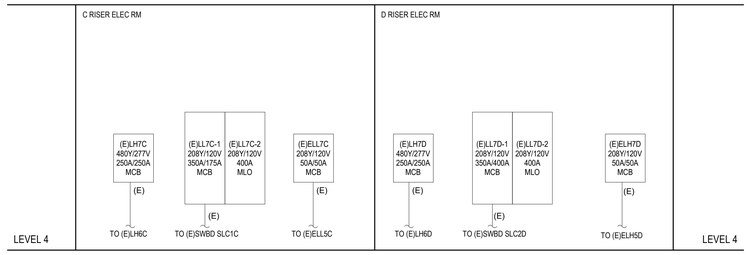
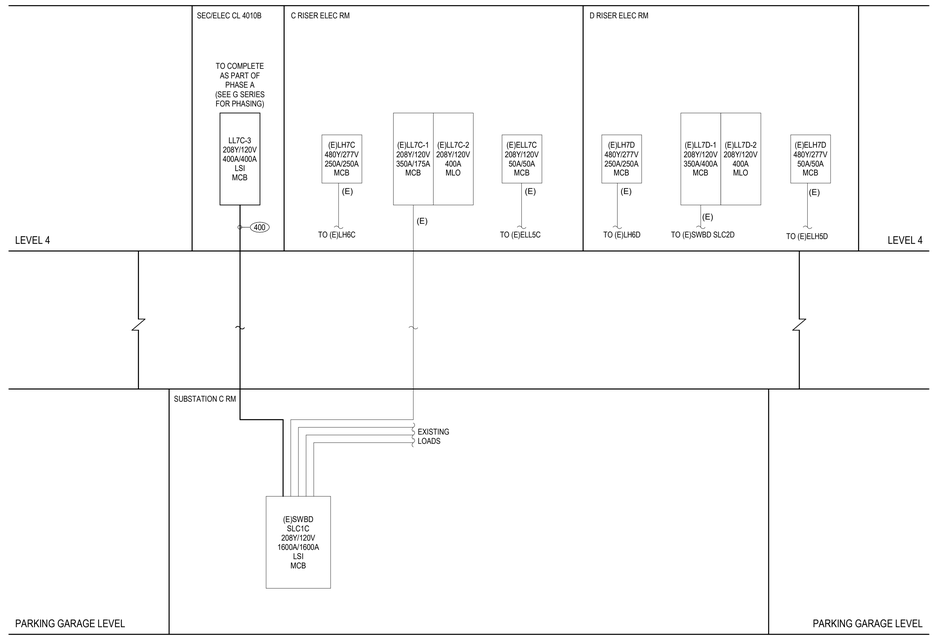


1 DEMOLITION PARTIAL ELECTRICAL RISER DIAGRAM
SCALE: NOT TO SCALE



2 PARTIAL ELECTRICAL RISER DIAGRAM
SCALE: NOT TO SCALE

GENERAL SHEET NOTES

A. SEE E0 SERIES COVER SHEET FOR ABBREVIATIONS, SYMBOLS, GENERAL NOTES.
B. VOLTAGE DROP SHALL BE LIMITED TO LESS THAN 3% FOR ALL BRANCH CIRCUITS AND 2% FOR ALL FEEDERS.
C. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EQUIPMENT POWER CONNECTIONS WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
D. PROVIDE NEW PANELBOARDS WITH 42-POLE, BOLT ON BREAKERS. PROVIDE A MINIMUM OF 3 SPARE CIRCUIT BREAKERS ON ALL DISTRIBUTION BOARDS AND A MINIMUM OF 20% SPARE 20A BREAKERS ON ALL BRANCH PANEL BOARDS.
E. PROVIDE NEW EQUIPMENT WITH SHORT CIRCUIT RATINGS TO MATCH EXISTING OR DEMOLISHED SHORT CIRCUIT RATINGS. COORDINATE WITH EXISTING OR DEMOLISHED 480Y/277V EQUIPMENT SHORT CIRCUIT RATING FOR NEW 480Y/277V EQUIPMENT RATING. COORDINATE WITH EXISTING OR DEMOLISHED 208Y/120V EQUIPMENT SHORT CIRCUIT RATING FOR NEW 208Y/120V EQUIPMENT RATING.

SHEET KEYNOTES

FEEDER SCHEDULE

400	2 SETS OF 4#3/0 + 1#3 G, (2) 2" C

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SHEET TITLE
ELECTRICAL DIAGRAMS

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CD 1.E.504

Author

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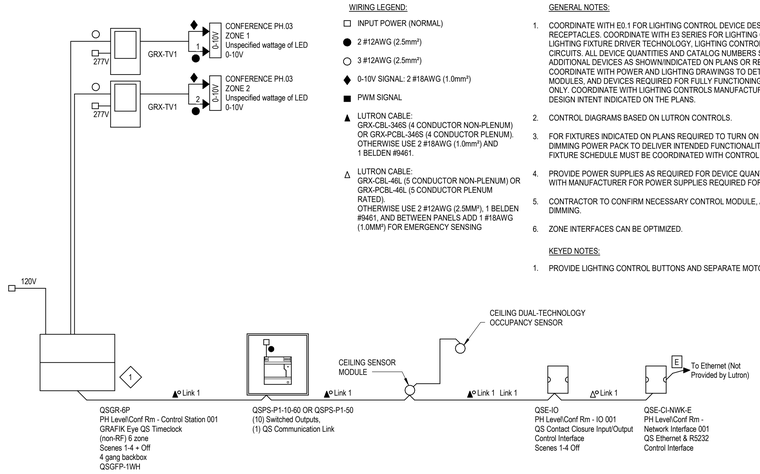


WIRING LEGEND:

- INPUT POWER (NORMAL)
- 2 #12AWG (2.5mm²)
- 3 #12AWG (2.5mm²)
- 0-10V SIGNAL: 2 #18AWG (1.0mm²)
- PWM SIGNAL
- LUTRON CABLE: GRX-CBL-346S (4 CONDUCTOR NON-PLENUM) OR GRX-PCBL-346S (4 CONDUCTOR PLENUM). OTHERWISE USE 2 #18AWG (1.0mm²) AND 1 BELDEN #9461.
- LUTRON CABLE: GRX-CBL-46L (5 CONDUCTOR NON-PLENUM) OR GRX-PCBL-46L (5 CONDUCTOR PLENUM RATED). OTHERWISE USE 2 #12AWG (2.5MM²), 1 BELDEN #9461, AND BETWEEN PANELS ADD 1 #18AWG (1.0MM²) FOR EMERGENCY SENSING

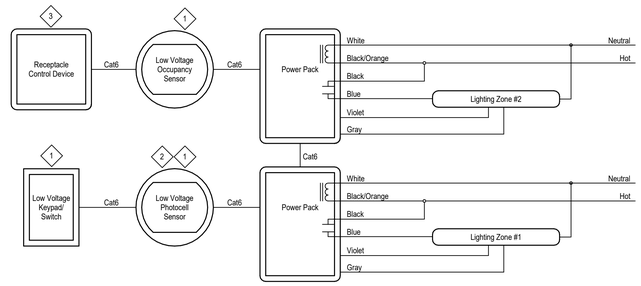
GENERAL NOTES:

1. COORDINATE WITH E0.1 FOR LIGHTING CONTROL DEVICE DESCRIPTIONS. COORDINATE WITH E2 SERIES FOR CONTROLLED RECEPTACLES. COORDINATE WITH E3 SERIES FOR LIGHTING CONTROL ZONES. COORDINATE WITH E7 SERIES FOR LIGHTING FIXTURE DRIVER TECHNOLOGY, LIGHTING CONTROL PROGRAMMING INTENT, AND CONTROLLED RECEPTACLE CIRCUITS. ALL DEVICE QUANTITIES AND CATALOG NUMBERS SHOWN ABOVE FOR REFERENCE ONLY. ONLY PROVIDE ADDITIONAL DEVICES AS SHOWN/INDICATED ON PLANS OR REQUIRED FOR SYSTEM TO FUNCTION AS INTENDED. COORDINATE WITH POWER AND LIGHTING DRAWINGS TO DETERMINE THE NUMBER AND TYPE OF ALL CONTROLS, MODULES, AND DEVICES REQUIRED FOR FULLY FUNCTIONING SYSTEM. MODEL NUMBERS ARE SHOWN FOR REFERENCE ONLY. COORDINATE WITH LIGHTING CONTROLS MANUFACTURER FOR RECOMMENDED CONFIGURATIONS TO ACHEIVE DESIGN INTENT INDICATED ON THE PLANS.
2. CONTROL DIAGRAMS BASED ON LUTRON CONTROLS.
3. FOR FIXTURES INDICATED ON PLANS REQUIRED TO TURN ON TO 50% AND THEN 100%, IT IS ACCEPTABLE TO PROVIDE DIMMING POWER PACK TO DELIVER INTENDED FUNCTIONALITY. FIXTURE TYPE AND DRIVER INDICATED ON THE LIGHTING FIXTURE SCHEDULE MUST BE COORDINATED WITH CONTROL MODULE TECHNOLOGY.
4. PROVIDE POWER SUPPLIES AS REQUIRED FOR DEVICE QUANTITIES AND ZONES SHOWN ON THE PLANS. COORDINATE WITH MANUFACTURER FOR POWER SUPPLIES REQUIRED FOR LONG CABLING RUNS.
5. CONTRACTOR TO CONFIRM NECESSARY CONTROL MODULE, ACCESSORIES, AND WIRING FOR FIXTURES WITH NON 0-10V DIMMING.
6. ZONE INTERFACES CAN BE OPTIMIZED.

KEYED NOTES:

1. PROVIDE LIGHTING CONTROL BUTTONS AND SEPARATE MOTORIZED SHADE RAISE/LOWER BUTTONS.

7 CONFERENCE ROOM CONTROL
SCALE: 12" = 1'-0"



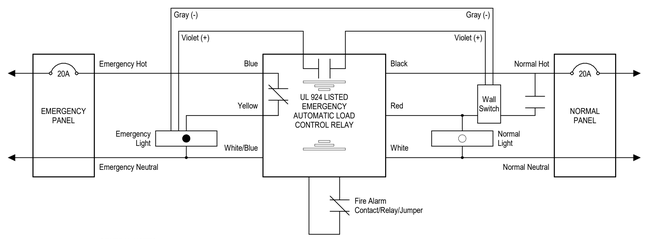
GENERAL NOTES:

1. SYSTEM TO FUNCTION AS STANDALONE BUT COMPONENTS TO BE PROVIDED READY FOR FUTURE NETWORKING AND TIE-IN TO FUTURE CENTRAL CONTROL SYSTEM. COORDINATE WITH SPECIFICATION 260943 NETWORK LIGHTING CONTROLS.
2. COORDINATE WITH E0.1 FOR LIGHTING CONTROL DEVICE DESCRIPTIONS. COORDINATE WITH E2 SERIES FOR CONTROLLED RECEPTACLES AND CIRCUITS. COORDINATE WITH E3 SERIES FOR LIGHTING CONTROL ZONES. COORDINATE WITH E7 SERIES FOR LIGHTING FIXTURE DRIVER TECHNOLOGY, LIGHTING CONTROL PROGRAMMING INTENT, AND CONTROLLED RECEPTACLE CIRCUITS. ALL DEVICE QUANTITIES SHOWN ABOVE FOR REFERENCE AND INTENT ONLY. ONLY PROVIDE ADDITIONAL DEVICES AS SHOWN/INDICATED ON PLANS OR REQUIRED FOR SYSTEM TO FUNCTION AS INTENDED. COORDINATE WITH POWER AND LIGHTING DRAWINGS TO DETERMINE THE NUMBER AND TYPE OF ALL CONTROLS, MODULES, AND DEVICES REQUIRED FOR FULLY FUNCTIONING SYSTEM. COORDINATE WITH LIGHTING CONTROLS MANUFACTURER FOR RECOMMENDED CONFIGURATIONS TO ACHEIVE DESIGN INTENT INDICATED ON THE PLANS.
3. DIAGRAM SHOWN INDICATES TYPICAL LIGHTING CONTROL DEVICES FOR EACH SPACE. COORDINATE WITH CONTROL SUBSCRIPTS INDICATED IN PLAN FOR CONTROL ZONES SHARED ACROSS MULTIPLE SPACES.
4. PROVIDE POWERPACKS AND DEVICES REQUIRED TO CONTROL LIGHTING FIXTURE ZONES INDICATED IN THE E3 SERIES. PROVIDE POWER PACK QUANTITIES AND TYPE AS REQUIRED BY E3 SERIES.
   - PROVIDE DIMMING OR NON-DIMMING POWER PACKS AS REQUIRED FOR LOCAL KEYPAD AND OCCUPANCY SENSOR CONTROL ZONES INDICATED IN E3 SERIES.
   - PROVIDE DIMMING POWER PACKS AS REQUIRED FOR DAYLIGHT HARVESTING IN CONTROL ZONES CONTROLLED BY PHOTOCELL IN E3 SERIES.
   - PROVIDE DIMMING OR NON-DIMMING POWER PACK THAT IS UL924 LISTED FOR ALL CONTROLLED EMERGENCY LIGHTING FIXTURES INDICATED ON E3 SERIES.
   - PROVIDE 20A PLUG LOAD RATED SWITCHING POWER PACK OR RELAY PANEL FOR CONTROLLED RECEPTACLES INDICATED IN E2 SERIES.
   - PROVIDE DIMMING OR NON-DIMMING POWER PACKS WITH VOLTAGES AS REQUIRED FOR CONTROLLED FIXTURE VOLTAGES AS INDICATED IN LIGHTING FIXTURE SCHEDULE IN E7 SERIES.
   - PROVIDE DIMMING POWER PACKS AS REQUIRED FOR CONTROLLED FIXTURE DIMMING PROTOCOL AS INDICATED IN LIGHTING FIXTURE SCHEDULE IN E7 SERIES.
5. CONTROL DIAGRAMS BASED ON LUTRON OR OSRAM SYLVANIA CONTROLS.
6. FOR FIXTURES INDICATED ON PLANS REQUIRED TO TURN ON TO 50% AND THEN 100%, PROVIDE DIMMING POWER PACK TO DELIVER INTENDED FUNCTIONALITY. FIXTURE TYPE AND DRIVER INDICATED ON THE LIGHTING FIXTURE SCHEDULE MUST BE COORDINATED WITH CONTROL MODULE TECHNOLOGY.
7. PROVIDE POWER SUPPLIES AS REQUIRED FOR DEVICE QUANTITIES AND ZONES SHOWN ON THE PLANS. COORDINATE POWER PACK(S) LOCATION WITH MANUFACTURER TO LIMIT VOLTAGE DROP PER MANUFACTURER RECOMMENDATIONS AND TO INSTALL IN AN ACCESSIBLE LOCATION.
8. CONTRACTOR TO CONFIRM NECESSARY POWER PACK, ACCESSORIES, AND WIRING FOR FIXTURES WITH NON 0-10V DIMMING.

KEYED NOTES:

1. PROVIDE QUANTITIES PER E3 SERIES.
2. PHOTOCELL TO MAINTAIN TARGET ILLUMINANCE INDICATED IN THE E7 SERIES LIGHTING CONTROL MATRIX THROUGHOUT THE ENTIRE SPACE SERVED.
3. PROVIDE PLUG LOAD RATED POWERPACK OR RELAY PANEL FOR ALL CONTROLLED RECEPTACLES PER E2 SERIES. PROVIDE PLUG LOAD RATED POWER PACK FOR CONTROLLED RECEPTACLES NOT IN SYSTEMS FURNITURE. PROVIDE PLUG LOAD RATED RELAYS IN RELAY PANEL FOR CONTROLLED RECEPTACLES IN SYSTEMS FURNITURE.

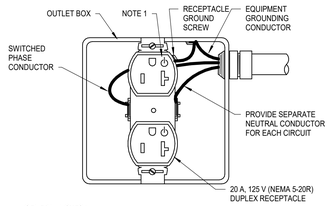
5 TYPICAL DIGITAL STANDALONE SPACE
SCALE: NTS



GENERAL NOTES:

1. UL924 DEVICE INDICATED IN DIGITAL LIGHTING CONTROL DETAILS IS ACCEPTABLE FOR DIGITAL LIGHTING CONTROL SYSTEMS.
2. BOD: LVS EPC-2-D
3. PROVIDE QUANTITIES AS REQUIRED FOR CONTROL OF EMERGENCY FIXTURES WITH NORMAL LIGHTING FIXTURES INDICATED ON E3 SERIES.
4. COORDINATE WITH FIRE ALARM CONTRACTOR TO PROVIDE CONTACT OR RELAY AND JUMPER CABLE TO SIGNAL FIRE EMERGENCY TO EMERGENCY LIGHTING CONTROL ZONES.

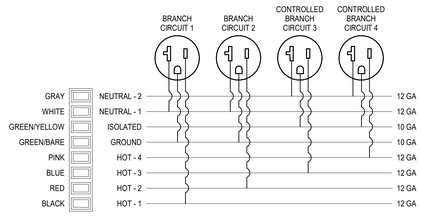
6 EMERGENCY AUTOMATIC LOAD CONTROL RELAY WIRING DIAGRAM
SCALE: NONE



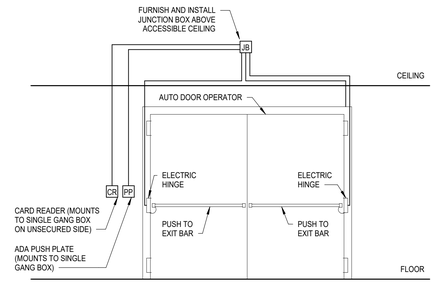
GENERAL NOTES :

1. PROVIDE CONTROLLED RECEPTACLE IDENTIFICATION PER NEC 2014 ARTICLE 406.3(E).
2. DETAIL IS APPLICABLE AS REQUIRED BY E2 SERIES. COORDINATE WITH E0 AND E2 SERIES.

4 FULLY CONTROLLED DUPLEX RECEPTACLE
SCALE: NOT TO SCALE



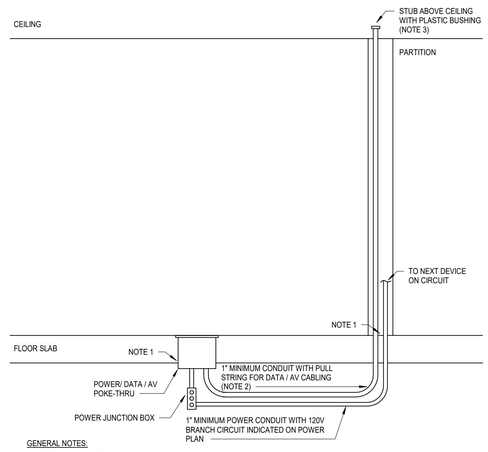
3 2+2 SYSTEMS FURNITURE WIRING DIAGRAM
SCALE: NONE



GENERAL NOTES:

1. CONDUITS SHOWN IN THIS DETAIL ARE 3/4" CONDUIT WITH 18/6 SHIELDED CL2P UON.
2. COORDINATE WITH ARCHITECT BEFORE ROUGH-IN FOR MOUNTING HEIGHT OF CARD READER AND PUSH PLATE DEVICE.
3. WIRING AND RACEWAY SHOWN TO INDICATE INTENT. CONCEAL ALL RACEWAY AND WIRING FROM VIEW
4. ELECTRIC HINGE LOCATIONS SHOWN FOR REFERENCE ONLY.COORDINATE WITH DOOR SPECIFIED FOR ELECTRIC HINGES. PROVIDE ADDITIONAL PATHWAYS AND BOXES REQUIRED FOR FULLY OPERATIONAL DOOR
5. DOUBLE DOOR FOR REFERENCE ONLY. COORDINATE INTENT SHOWN FOR SINGLE DOORS

2 TYPICAL DOOR WITH CARD READER, ELECTRIC HINGES, PUSH PLATE, & AUTO DOOR OPERATOR
SCALE: NOT TO SCALE



GENERAL NOTES:

1. FIRESTOP ALL PENETRATIONS AS REQUIRED TO MAINTAIN FIRE RATING OF FLOOR.
2. PROVIDE CONTINUOUS CONDUIT PATH FROM POKE-THRU TO STUB UP LOCATION ABOVE CEILING AS SHOWN. PROVIDE SWEEPING BENDS FOR ALL 90 DEGREE TURNS. 90 DEGREE CONDUIT BODIES SHALL NOT BE USED.
3. WHERE POKE-THRU IS LOCATED IN CONFERENCE ROOM. PROVIDE STUB UP LOCATION NEAR DISPLAY MONITORS IN CONFERENCE ROOM. COORDINATE EXACT LOCATION WITH A/V INSTALLERS.

1 POKE-THRU DETAIL
SCALE: NOT TO SCALE

GENERAL SHEET NOTES

A. SEE E0 SERIES COVER SHEET AND E2 AND E3 SERIES FOR DEVICE LOCATIONS, TYPES, QUANTITIES AND CONTROL INTENT.
B. SEE E7 SERIES FOR PROGRAMMING SCHEDULE.
C. COORDINATE NUMBER OF BUTTONS ON LOW VOLTAGE SWITCHES WITH E0 SERIES COVER SHEET AND ZONING INDICATED ON E3 SERIES.
D. PROVIDE DIMMING CONNECTION FOR ZONES WITH DIMMING AND PROVIDE COMPATIBLE POWERPACK OR CONTROL MODULE AS REQUIRED BY DIMMING TYPE INDICATED IN E7 SERIES FIXTURE SCHEDULE.
E. DIAGRAMS ARE FOR REFERENCE ONLY. PROVIDE QUANTITY OF DEVICES, CONTROL MODULES AND RELAYS, WIRES AND SUPPORTING EQUIPMENT REQUIRED BY MANUFACTURER TO ACHIEVE CONTROL INTENT INDICATED ON PLANS AND PROGRAMMING SCHEDULE.
F. PROVIDE ONE RELAY FOR EACH CONTROL ZONE INDICATED. PROVIDE ADDITIONAL RELAYS AS REQUIRED FOR CONTROLLED EMERGENCY LIGHTING.
G. PROVIDE UL 924 LISTED DEVICE FOR EMERGENCY LIGHTING CONTROL ZONES.COORDINATE WITH UL 924 DEVICE MANUFACTURER.
H. PROVIDE 20A PLUG LOAD RELAY FOR SWITCHED RECEPTACLES. PROVIDE MINIMUM OF ONE PLUG LOAD RELAY PER SPACE CONTROLLED BY OCCUPANCY SENSOR WITHIN SPACE EXCEPT WHERE NOTED FOR TIMECLOCK CONTROL IN PROGRAMMING SCHEDULE.
I. PROVIDE 20A, 120V OR 277V CIRCUITS FROM NEAREST 480Y/277 OR 208Y/120V PANELBOARD SPARE WITH CAPACITY AS REQUIRED BY LIGHTING CONTROL MANUFACTURER.
J. PROVIDE COMPLETE SHOP DRAWINGS COORDINATED WITH APPROVED LIGHTING FIXTURE PACKAGE FOR REVIEW AND APPROVAL OF ALL CONTROL SYSTEMS. DIMMING TO BE COORDINATED WITH APPROVED FIXTURE SUBMITTAL PRIOR TO RELEASE OF LIGHTING CONTROL SYSTEM.
K. CONTROL SCHEDULES, SCENE SELECTION AND COMMISSIONG OF CONTROL SYSTEM SHALL BE COORDINATED WITH OWNER AND ARCHITECT TO ALLOW FOR DESIGN TEAM TO ATTEND COMMISSIONING AT TIME OF START UP.

SHEET KEYNOTES

Author

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Plot Date:

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SHEET TITLE
ELECTRICAL DETAILS

PROJECT NUMBER 12808.000

CD

SHEET NUMBER 1.E.601

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL	LAMP	BALLAST	VOLTAGE	MOUNTING	COMMENTS
D3	4'-0" LENGTH, 4 3/4" X 3 11/16" SURFACE AND WALL MOUNTED UTILITARIAN LED FIXTURE. PROVIDE WALL BRACKET AND ASSOCIATED ACCESSORIES FOR WALL MOUNT.	LITHONIA LIGHTING	WL4 LED	39.5W, 4124LM, 80CRI, 3500K CCT LED	0-10V DIMMING	277 V	RECESSED	
L3	1 3/16" X 4 3/16" UNDERCABINET LED FIXTURES WITH WHITE FINISH. MOUNT FIXTURE BELOW THE CABINET AND PROVIDE ASSOCIATED ACCESSORIES FOR UNDERCABINET MOUNTING. PROVIDE FIXTURE LENGTHS PER PLAN.	DAY-BRITE	LINCS LED	6W/FT, 537LM/FT, 80CRI, 3500K CCT LED	0-10V DIMMING	277 V	SURFACE	ADD NOTES TO SEE INTERIOR SERIES DETAILS AND /OR CONCEAL FIXTURE AND ASSOCIATED RACEWAY AND WIRING FROM VIEW
R1	RECESSED NOMINAL 2' BY 2' LENSED DIRECT LED TROFFER LUMINAIRE. HOUSING DIMENSIONS ARE 5.56" DEEP BY NOMINAL 24" BY 24". PROVIDE LUMINAIRE WITH ACRYLIC DIFFUSER AND MESO-OPTIC FILM FOR GLARE CONTROL. PROVIDE LUMINAIRE WITH INTEGRAL 0-10V DIMMING DRIVER. CONTRACTOR TO PROVIDE ELECTRICAL INSTALLATION HARDWARE AS REQUIRED.	LEDALITE	ARC FORM	41W, 3600LM, 80CRI, 3500K CCT LED	0-10V DIMMING	277 V	RECESSED	PROVIDE MOUNTING TYPE PER ARCHITECTURAL RCP.
R18	4" APERTURE LED WALLWASHER DOWNLIGHT. FIXTURE TO BE NO MORE THAN 4 7/8" IN DEPTH.	LIGHTOLIER BY SIGNIFY	CALCULITE LED 4" GEN 3	11W, 1000LM, 80CRI, 3500K CCT LED	0-10V DIMMING	277 V	RECESSED	
R20	PENDANT MOUNTED LINEAR NOMINAL 4' LONG LED DIRECT/INDIRECT LUMINAIRE. LUMINAIRE TO HAVE MESO-OPTIC LIGHT GUIDE FOR NOMINAL 70% UP / 30% DOWN LIGHT DISTRIBUTION, BATWING UP LIGHT DISTRIBUTION, AND GLARE CONTROL FOR DOWNLIGHT COMPONENT. FINISH TO BE SELECTED BY ARCHITECT. PROVIDE AIRCRAFT CABLE SUSPENSION, REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.	LEDALITE	BOLDPLAY SUSPENDED LED	7.2W/FT, UPLIGHT - 645LM/FT, DOWNLIGHT - 264LM/FT, 80CRI, 3500K CCT LED	0-10V DIMMING	277 V	PENDANT	
X1	CEILING RECESS MOUNTED OR OPEN CEILING PENDANT MOUNTED EDGELIT EXIT SIGN WITH RED LED'S, WHITE DIE-CAST ALUMINUM OR POLYCARBONATE RECESSED TRIM, AND AC POWERED WITH INTEGRAL BATTERY.	LITHONIA LIGHTING	EDG/EDGR	RED LED	N/A	277 V	RECESS/ PENDANT	PROVIDE NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS. SINGLE-SIDED SIGNS SHALL HAVE CLEAR BACKGROUND. DOUBLE-SIDED FACES SHALL HAVE MIRRORED BACKGROUND. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL RCP'S TO PROVIDE PENDANT MOUNT FOR OPEN CEILINGS AND RECESSED MOUNT FOR FINISHED CEILINGS.

LIGHTING CONTROL SCHEDULE

SPACE TYPE	NETWORK OR STANDALONE	MANUAL ON OR PARTIAL AUTO ON	BILEVEL/ DIMMING	AUTO ON (OCCUPIED) OUTPUT	AUTO OFF (UNOCCUPIED) OUTPUT	TIME DELAY (MINUTES)
ADMIN/RECEPTION	STANDALONE	AO	DIMMING	100%	0%	20
BREAKROOM/LUNCHROOM/PANTRY	STANDALONE	AO	DIMMING	50%	0%	20
CONFERENCE ROOM/MULTIPURPOSE	STANDALONE	AO	DIMMING	50%	0%	20
COPY ROOM	STANDALONE	AO	DIMMING	50%	0%	20
CORRIDORS/HALLWAY	STANDALONE	AO	DIMMING	100%	0%	20
ELEC/MECH SUPPORT SPACES (IT/AV, LAN)	STANDALONE	MO	NONE	N/A	N/A	20
OFFICE, OPEN	STANDALONE	AO	DIMMING	50%	0%	20
OFFICE, PRIVATE	STANDALONE	AO	DIMMING	50%	0%	20
RESTROOM	STANDALONE	AO	DIMMING	100%	0%	20
STORAGE/JANITOR'S CLOSET	STANDALONE	AO	DIMMING	50%	0%	20

NOTES:
1. CONTRACTOR TO REVIEW AND CONFIRM ALL CONTROL PROGRAMMING REQUIREMENTS WITH OWNER PRIOR TO PROGRAMMING.
2. OCCUPANCY/VACANCY SENSORS TO DETECT UNOCCUPIED AND SIGNAL SYSTEM TO ADJUST FIXTURES TO OUTPUT AS INDICATED.
3. USER KEYPAD TO ALLOW USER TO ADJUST FIXTURE OUTPUT FROM PROGRAMMED AUTOMATIC ON (OCCUPIED) OR AUTO SHUTOFF (UNOCCUPIED) OUTPUT.
4. AUTOMATIC ON SIGNAL FROM OCCUPANCY/UNOCCUPIED SENSOR TO SIGNAL SYSTEM TO ADJUST FIXTURE TO OUTPUT AS INDICATED.
5. COORDINATE WITH E0.01 AND E3 SERIES FOR KEYPAD MANUAL OVERRIDE.
6. OCCUPANCY SENSOR TO ENERGIZE CONTROLLED RECEPTACLE DURING OCCUPANCY AND DE-ENERGIZE CONTROLLED RECEPTACLE DURING VACANCY (UNOCCUPIED).
7. PROVIDE LIGHTING CONTROL COMPONENTS CAPABLE OF FUTURE NETWORKING TO CENTRAL CONTROL SYSTEM. SPACES WITHIN SCOPE OF WORK TO BE INSTALLED AS STANDALONE AND NOT BE INTERCONNECTED.

COM*check* Software Version 4.1.1.0

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2013) Standard
Project Title: DC COURTS
Project Type: New Construction

Construction Site:
1700 NEW YORK AVENUE NW
SUITE 100
WASHINGTON, DC 20006

Owner/Agent:

Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Office	8413	0.82	6899
		Total Allowed Watts =	6899

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Office				
D3: D3: 4' WALL MOUNT LED LINEAR: Other:	1	2	32	64
L3: L3: UNDERCABINET LED: Other:	1	1	57	57
R1: R1: 2' X 2' LED TROFFER: Other:	1	190	34	6460
R18: R18: 4" LED WALL WASHER: Other:	1	10	11	110
R20: R20: 4' DIRECT INDIRECT PENDANT: Other:	1	1	72	72
		Total Proposed Watts =		6763

Interior Lighting PASSES: Design 2% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2013) Standard requirements in COM*check* Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: DC COURTS Report date: 04/12/21
Data filename: C:\Users\skrishnakumar\OneDrive - SmithGroup Companies Inc\Desktop\Astra zeneca\Commcheck report.cck Page 2 of 8

GENERAL SHEET NOTES

A. COORDINATE ALL FINAL LOCATIONS, LOADS, AND CONNECTION REQUIREMENTS WITH MECHANICAL DRAWINGS AND FINAL EQUIPMENT SELECTION.
B. CONFIRM WIRE SIZES INDICATED WITH DISTANCES PER E0 SERIES SCHEDULE SHEET FOR LIMIT VOLTAGE DROP TO 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS FOR MECHANICAL EQUIPMENT.
C. COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS PRIOR TO EQUIPMENT SELECTION TO CONFIRM WIRE SIZES AND QUANTITIES REQUIRED ARE CAPABLE OF TERMINATING ON MECHANICAL EQUIPMENT AND CONTROLLERS PRIOR TO SUBMITTING FOR REVIEW.
D. PROVIDE 20A, 277V OR 120V CIRCUITS FROM NEAREST 480Y/277V OR 208Y/120V PANELBOARD WITH SPACE AND CAPACITY FOR MECHANICAL EQUIPMENT AS REQUIRED BY EQUIPMENT MANUFACTURER AND CONTROLS VENDOR.
E. COORDINATE ALL MECHANICAL DISCONNECT, SPEED CONTROL, STARTER AND ADDITIONAL CONTROL REQUIREMENTS WITH MANUFACTURER.
F. COORDINATE WITH OTHER TRADES, CEILING TYPES, ARCHITECTURAL MOUNTING DETAILS, ELEVATIONS, AND FIELD CONDITIONS. CONTRACTOR TO PROVIDE ALL EQUIPMENT AND ACCESSORIES NECESSARY TO INSTALL LIGHTING FIXTURES IN SPECIFIED CEILING CONDITION. CONTRACTOR TO INDICATE MOUNTING SELECTIONS REQUIRED WITHIN FIXTURE PACKAGE FOR SUBMITTED REVIEW.
G. PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTING FIXTURES LOCATED IN A FIRE-RATED CEILING OR WALL. PROVIDE IC RATED HOUSING FOR FIXTURES LOCATED IN AN INSULATED CEILING AREA. ELECTRICAL CONTRACTOR TO COORDINATE CEILING AND WALL CONDITION.
H. COORDINATE DIMMING METHOD INDICATED WITH CONTROL INTENT ON E2 AND E3 SERIES WITH CONTROL SYSTEMS PRIOR TO RELASE OF FIXTURE PACKAGE. CONTRACTOR TO COORDINATE ALL FIXTURE AND DRIVER COMPATIBILITY CONTROL SYSTEM MANUFACTURER PRIOR TO RELEASE.
I. PROVIDE WORKING SAMPLE FOR ALL FIXTURE SUBSTITUIONS WITHIN 10 WORKING DAYS UPON REQUEST FROM THE DESIGN TEAM. JUDGMENT OF FIXTURE QUALITY AND OPTICS, AS EQUAL SHALL BE DETERMINED BY THE ARCHITECT, LIGHTING DESIGNER OR ENGINEER.
J. PROVIDE FIXTURE APPROPRIATE UL LABEL, DAMP, OR WET AS REQUIRED BY LOCAL CODES.
K. PROVIDE FIXTURE ACCESSORIES REQUIRED FOR INSTALLATION ACCORDING TO ALL LOCAL AND NATIONAL CODES.
L. CONTRACTOR TO CONFIRM ALL LOCATIONS AND RECESS DEPTHS PRIOR TO ORDERING ANY LIGHTING EQUIPMENT.
M. INSTALL LAMPS AS REQUIRED BY FIXTURE SCHEDULE AND MANUFACTURER REQUIREMENTS.
N. CONTRACTOR TO VERIFY FINAL FIXTURE VOLTAGE WITH CIRCUIT VOLTAGE INDICATED ON E3 SERIES FOR COMPATIBILITY.
O. CONTRACTOR TO VERIFY CEILING TRIM COMPATIBILITY WITH FINAL CEILING TYPES AND ARCHITECT PRIOR TO ORDERING FIXTURES.
P. ARCHITECT OR INTERIOR DESIGNER TO CONFIRM ALL FIXTURE FINISHES PRIOR TO PACKAGE RELEASE. ANY UNSPECIFIED OR TBD FINISHES ARE TO BE ASSUMED AS STANDARD AVAILABLE FINISHES TO MATCH CEILING OR WALL FOR PRICING, UNLESS OTHERWISE NOTED.
Q. SHIP ADJUSTABLE DOWNLIGHTS TO SITE WITH LAMP FACING STRAIGHT DOWN. INSTALL ALL FIXTURES WITH LAMP FACING DOWN, IF PROCURED OTHERWISE. ARCHITECT TO DIRECT CONTRACTOR IN RE-AIMING AT WALLS, OBJECTS, ETC. IN THE FIELD DURING SITE VISIT ARRANGED FOR THAT EXPRESS PURPOSE.

SHEET KEYNOTES

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M2H PROTECTION
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5100 Buckeystown Pike, Suite 250
Frederick, MD 21704
301-371-6047

ISSUED FOR	REV	DATE
PERMIT DOCUMENTS		04/12/2021
95% CONSTRUCTION DOCUMENTS		04/12/2021
DESIGN DEVELOPMENT		03/09/2021
SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
LIGHTING SCHEDULES & COMCHECK LPD COMPLIANCE

PROJECT NUMBER 12808.000

SHEET NUMBER CD 1.E.701

Author

Plot Date: 4/12/2021 8:02:17 PM

Panelboard: LL7C-3

Location: ELEC. C 4_6G
Supply From: (E)SWBD SLCLC
Mounting: Surface
Enclosure: Type 1
Volts: 208Y/120
Phases: 3
Wires: 4
A.I.C. Rating: 22,000 A
Mains Type: MCB
Bus Rating: 400 A
MCB Rating: 400 A

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	430-OPEN OFFICE, RCPT, SYS FURN.	20 A	2	720	720					2	20 A	430-OPEN OFFICE, RCPT, SYS FURN.	2
3						720	720						4
5	430-OPEN OFFICE, RCPT, SYS FURN.(*)	20 A	2					720	720	2	20 A	430-OPEN OFFICE, RCPT, SYS FURN.(*)	6
7				720	720								8
9	430-OPEN OFFICE, RCPT, SYS FURN.	20 A	2			720	720			2	20 A	430-OPEN OFFICE, RCPT, SYS FURN.	10
11								720	720				12
13	430-OPEN OFFICE, RCPT, SYS FURN.(*)	20 A	2	720	720					2	20 A	430-OPEN OFFICE, RCPT, SYS FURN.(*)	14
15						720	720						16
17	4016-CONF ROOM, RCPT GEN & FLOOR BOX	20 A	1					540	720	1	20 A	4010-LUNCH ROOM,EQ-TV	18
19	4010B-SEC/ELEC CL, RCPT, SEC @ +84"AFF	20 A	1	360	560					1	20 A	4010-LUNCH, RCPT, GARBAGE DISPOSAL	20
21	4000-OPEN OFFICE,JBOX, SPL SYSTEMS...	20 A	1			450	720			1	20 A	4010-LUNCH ROOM, QUAD RCPT, GEN	22
23	4010-LUNCH ROOM, EQ-JBOX	20 A	1					1000	1100	1	20 A	4000-OPEN OFFICE, RCPT, EQ-PRINTER	24
25	4018,20-OFFICES, RCPT, COMP IG	20 A	1	800	1050					1	20 A	4010-LUNCH ROOM, RCPT, EQ-REFG	26
27	4000-OPEN OFFICE,JBOX, DOOR POWER	20 A	1			1000	1080			1	20 A	4000,30-OPEN OFFICE & RECEPTION,RCPT VM	28
29	4013,15-OFFICES, RCPT, GEN	20 A	1					1440	1500	1	20 A	4030-RECEPTION,JBOX, DOOR POWER	30
31	4010-LUNCH ROOM, RCPT, EQ-MICROWAVE	20 A	1	1100	1600					1	20 A	4011,13,15,17-OFFICES, RCPT, COMP IG	32
33	4000,30-OPEN OFFICE & RECEPTION,RCPT...	20 A	1			1440	1600			1	20 A	4019,21,23-OFFICES, RCPT, COMP IG	34
35	430-OPEN OFFICE, RCPT SEC	20 A	1					1080	1260	1	20 A	430-OPEN OFFICE & CORRIDOR, RCPT, GEN	36
37	4010-LUNCH ROOM, RCPT, GEN	20 A	1	1080	1260					1	20 A	4016,18-CONF ROOM & OFFICE ,RCPT,GEN	38
39	4014-COPIER RCPT, GEN	20 A	1			1080	1260			1	20 A	430,4040-OPEN OFFICE & COPY, RCPT, GEN	40
41	430,4011-OPEN OFFICE & OFFICE, RCPT, GEN	20 A	1					1440	1440	1	20 A	4033,35-OFFICES, RCPT, GEN	42
43	4034,36-OFFICES, RCPT, GEN	20 A	1	1440	1440					1	20 A	4029,31-OFFICES, RCPT, GEN	44
45	4040-COPIER, RCPT, EQ-COPIER	20 A	1			1440	1440			1	20 A	4030,32-RECEPTION & OFFICE, RCPT, GEN	46
47	4025,27-OFFICES, RCPT, GEN	20 A	1					1440	1440	1	20 A	4020,22-OFFICES, RCPT, GEN	48
49	4021,23-OFFICES, RCPT, GEN	20 A	1	1440	1440					1	20 A	4014-COPY RM, RCPT, EQ-COPIER	50
51	4024,26-OFFICES, RCPT, GEN	20 A	1			1440	1440			1	20 A	4017,19-OFFICES, RCPT, GEN	52
53	4032,34,36-OFFICES, RCPT, COMP IG	20 A	1					1600	2400	1	20 A	4000-OPEN OFFICE, MECHANICAL EQUIPMENT	54
55	4022,24,26-OFFICES, RCPT, COMP IG	20 A	1	1600	2400					1	20 A	4000-OPEN OFFICE MECHANICAL EQUIPMENT	56
57	4029,31,33-OFFICES, RCPT, COMP IG	20 A	1			1600	2400			1	20 A	4000-OPEN OFFICE, MECHANICAL EQUIPMENT	58
59	SPARE	20 A	1					0	0	1	20 A	SPARE	60
61	SPARE	20 A	1	0	0					1	20 A	SPARE	62
63	SPARE	20 A	1			0	0			1	20 A	SPARE	64
65	SPARE	20 A	1					0	0	1	20 A	SPARE	66
67	SPARE	20 A	1	0	0					1	20 A	SPARE	68
69	SPARE	20 A	1			0	0			1	20 A	SPARE	70
71	SPARE	20 A	1					0	0	1	20 A	SPARE	72
73	SPARE	20 A	1	0	0					1	20 A	SPARE	74
75	SPARE	20 A	1			0	0			1	20 A	SPARE	76
77	SPACE	--	--					0	0	--	--	SPACE	78
79	SPACE	--	--	0	0					--	--	SPACE	80
81	SPACE	--	--			0	0			--	--	SPACE	82
83	SPACE	--	--					0	0	--	--	SPACE	84
			Total Load:	21890 VA		22710 VA		21280 VA					
			Total Amps:	183 A		190 A		177 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	20510 VA	100.00%	20510 VA		
Lighting	0 VA	0.00%	0 VA	**Total Conn. Load:**	65880 VA
Power	5760 VA	100.00%	5760 VA	**Total Est. Demand:**	54590 VA
Receptacle	29700 VA	66.84%	19850 VA	**Total Conn.:**	183 A
Mechanical Equipment	7200 VA	80.00%	5760 VA	**Total Est. Demand:**	152 A
Appliance	2710 VA	100.00%	2710 VA		

Notes:
FINAL A.I.C RATING PER SHORT CIRCUIT STUDY, COORDINATE WITH SPECIFICATION 260573.16
(*)PROVIDE SWITCHED RECEPTACLES FOR 50% OF SYSTEMS FURNITURE WITH PERMANENT MARKINGS AS INDICATED IN NEC.

Switchboard: (E)SWBD SLCLC

Location: SUBSTATION C ROOM
Supply From: SUBSTATION C
Mounting: SURFACE
Enclosure: EXISTING
Volts: 208Y/120
Phases: 3
Wires: 4
A.I.C. Rating: EXISTING
Mains Type: MCB
Mains Rating: 1600 A
MCB Rating: 1600 A

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	(E)SPARE	3	--	400 A	0 VA	
2	(E)SPARE	3	--	400 A	0 VA	
3	(E)SPARE	3	--	400 A	0 VA	
4	(E)SPARE	3	--	400 A	0 VA	
5	(E)SPARE	3	--	400 A	0 VA	
6	(E)SPARE	3	--	400 A	0 VA	
7	(E)LL8C, (E)LL9C	3	400 A	20 A	73249 VA	
8	(E)SPARE	3	--	400 A	0 VA	
9	(E)LL1N, (E)LL5C, (E)LL7C	3	400 A	20 A	121074 VA	
10	(E)LL6C	3	400 A	20 A	37193 VA	
11	(E)LL2C, (E)LL3C, (E)LL4C	3	400 A	20 A	114491 VA	
12	**LL7C-3**	**3**	**400 A**	**400 A**	**65880 VA**	**LSI BREAKER**
13	(E)SPARE	3	--	400 A	0 VA	
14	(E)SPARE	3	--	400 A	0 VA	
				Total Conn. Load:	411887 VA	
				Total Amps:	1143 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	20510 VA	100.00%	20510 VA		
Existing Load	346007 VA	125.00%	432509 VA	**Total Conn. Load:**	411887 VA
Lighting	0 VA	0.00%	0 VA	**Total Est. Demand:**	487099 VA
Power	5760 VA	100.00%	5760 VA	**Total Conn.:**	1143 A
Receptacle	29700 VA	66.84%	19850 VA	**Total Est. Demand:**	1352 A
Mechanical Equipment	7200 VA	80.00%	5760 VA		
Appliance	2710 VA	100.00%	2710 VA		

Notes:

Panelboard: (E)LH7C

Location: ELEC. C 4_6G
Supply From: (E)LH6C FROM THIRD FLOOR
Mounting: Surface
Enclosure: Type 1
Volts: 480Y/277
Phases: 3
Wires: 4
A.I.C. Rating: EXISTING
Mains Type: MCB
Bus Rating: 250 A
MCB Rating: 250 A

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	EXISTING LOAD	20 A	1	500	700					1	20 A	EXISTING LOAD	2
3	EXISTING LOAD	20 A	1			500	900			1	20 A	EXISTING LOAD	4
5	EXISTING LOAD	20 A	1					700	800	1	20 A	EXISTING LOAD	6
7	EXISTING LOAD	20 A	1	600	1000					1	20 A	EXISTING LOAD	8
9	EXISTING LOAD	20 A	1			1000	1000			1	20 A	EXISTING LOAD	10
11	EXISTING LOAD	20 A	1					1500	1000	1	20 A	EXISTING LOAD	12
13	EXISTING LOAD	20 A	1	500	**1584**					**1**	**20 A**	**MAGISTRATE SUITE, PUBLIC, LTG**	**14**
15	SPACE	--	--			0	**1886**			**1**	**20 A**	**MAGISTRATE SUITES, N PRIVATE, LTG**	**16**
17	SPACE	--	--					0	**2258**	**1**	**20 A**	**MAGISTRATE SUITES, S PRIVATE, LTG**	**18**
19	SPACE	--	--	0	0					--	--	SPACE	20
21	SPACE	--	--			0	0			--	--	SPACE	22
23	SPACE	--	--					0	0	--	--	SPACE	24
25	SPACE	--	--	0	0					--	--	SPACE	26
27	SPACE	--	--			0	0			--	--	SPACE	28
29	SPACE	--	--					0	0	--	--	SPACE	30
31	SPACE	--	--	0	0					--	--	SPACE	32
33	SPACE	--	--			0	0			--	--	SPACE	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0					--	--	SPACE	38
39	SPACE	--	--			0	0			--	--	SPACE	40
41	SPACE	--	--					0	0	--	--	SPACE	42
			Total Load:	4884 VA		5286 VA		6258 VA					
			Total Amps:	18 A		19 A		23 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Existing Load	10700 VA	125.00%	13375 VA		
Lighting	5728 VA	100.00%	5728 VA	**Total Conn. Load:**	16428 VA
				Total Est. Demand:	19103 VA
				Total Conn.:	20 A
				Total Est. Demand:	23 A

Notes:

Panelboard: (E)ELH7D

Location: ELEC. D 4.7D
Supply From: (E)ELH5D FROM SECOND FLOOR
Mounting: Surface
Enclosure: Type 1
Volts: 480Y/277
Phases: 3
Wires: 4
A.I.C. Rating: EXISTING
Mains Type: MCB
Bus Rating: 50 A
MCB Rating: 50 A

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	EXISTING LOAD	20 A	1	1047	0					--	--	SPACE	2
3	**MAGISTRATE SUITE, SOUTHWEST, LTG EM**	**20 A**	**1**			**1006**	0			--	--	SPACE	4
5	SPACE	--	--					0	0	--	--	SPACE	6
7	SPACE	--	--	0	0					--	--	SPACE	8
9	SPACE	--	--			0	0			--	--	SPACE	10
11	SPACE	--	--					0	0	--	--	SPACE	12
13	SPACE	--	--	0	0					--	--	SPACE	14
15	SPACE	--	--			0	0			--	--	SPACE	16
17	SPACE	--	--					0	0	--	--	SPACE	18
19	SPACE	--	--	0	0					--	--	SPACE	20
21	SPACE	--	--			0	0			--	--	SPACE	22
23	SPACE	--	--					0	0	--	--	SPACE	24
25	SPACE	--	--	0	0					--	--	SPACE	26
27	SPACE	--	--			0	0			--	--	SPACE	28
29	SPACE	--	--					0	0	--	--	SPACE	30
31	SPACE	--	--	0	0					--	--	SPACE	32
33	SPACE	--	--			0	0			--	--	SPACE	34
35	SPACE	--	--					0	0	--	--	SPACE	36
37	SPACE	--	--	0	0					--	--	SPACE	38
39	SPACE	--	--			0	0			--	--	SPACE	40
41	SPACE	--	--					0	0	--	--	SPACE	42
			Total Load:	1047 VA		1006 VA		0 VA					
			Total Amps:	4 A		4 A		0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Existing Load	1047 VA	125.00%	1309 VA		
Lighting	1006 VA	100.00%	1006 VA	**Total Conn. Load:**	2053 VA
				Total Est. Demand:	2315 VA
				Total Conn.:	2 A
				Total Est. Demand:	3 A

Notes:

GENERAL SHEET NOTES

A. SEE E0 SERIES COVER SHEET FOR ABBREVIATIONS, SYMBOLS, GENERAL NOTES AND DEVICE MOUNTING HEIGHT OF WALL MOUNTED DEVICES, UON.
B. SEE E5 SERIES FOR POWER RISER DIAGRAM.
C. PROVIDE A MINIMUM OF 20% SPARE CIRCUIT BREAKERS ON EACH NEW PANEL.
D. UTILIZE SPARE BREAKERS SHOWN FOR ADDITIONAL POWER SUPPLIES AS REQUIRED BY E2, E3, E5, AND E6 SERIES SHEET NOTES.
E. CONTRACTOR TO VERIFY EXISTING AVAILABLE CIRCUITS. COORDINATE LOCATION OF AVAILABLE CIRCUTS WITH THOSE INDICATED IN PANEL SCHEDULES.
F. REUSE EXISTING CIRCUIT BREAKERS WHEN APPLICABLE. PROVIDE NEW BREAKERS IN EXISTING PANEL SPACES. COORDINATE NEW BREAKER TYPE WITH EXISTING TO REMAIN PANEL TO MAINTAIN WARRANTY AND RATING.
G. CONTRACTOR TO METER AND VERIFY EXISTING PANEL LOADS AND AVAILABLE PANEL CAPACITY PRIOR TO ADDING CIRCUITS.
H. PROVIDE PERMANENT PANEL NAMEPLATES AND TYPED PANEL SCHEDULES AFTER ALL WORK IS COMPLETE. SCHEDULES AND NAMEPLATES MUST MATCH PANEL INFORMATION, CIRCUIT BREAKERS, AND CONNECTED LOADS INDICATED.
I. PROVIDE BREAKER TIES FOR SYSTEMS FURNITURE CONNECTIONS PER NEC.
J. CONTRACTOR TO PROVIDE 3 PHASE CIRCUIT FOR ALL NEW SURGE PROTECTION DEVICES. COORDINATE FINAL CIRCUIT BREAKER SIZE WITH DEVICE MANUFACTURER.
K. BALANCE FINAL PANELBOARD LOADS AMONG PHASES.
L. BOLDED BRANCH CIRCUIT BREAKERS IN EXISTING PANELBOARDS INDICATE NEW WORK.

SHEET KEYNOTES

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SCHEMATIC DESIGN		01/22/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

LL7C-3	(E)LH7C
-	(E)ELH7D
-	-

SHEET TITLE
PANELBOARD SCHEDULES

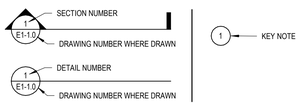
PROJECT NUMBER 12808.000

SHEET NUMBER CD 1.E.702

FIRE ALARM ABBREVIATIONS

(A)	
A	AMPERES
AC	ALTERNATING CURRENT
AF	AMPERE FRAME (BREAKER RATING)
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
ARCH	ARCHITECT
AT	AMPERES TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
(B)	
BLDG	BUILDING
BRKR, BKR	BREAKER
(C)	
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
COM, COMM	COMMUNICATIONS
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
(D)	
DC	DIRECT CURRENT
DISC	DISCONNECT
DIST	DISTRIBUTION
DIV	DIVISION
DN	DOWN
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
(E)	
E, (E), EX, EXIST	EXISTING TO REMAIN
EG	EQUIPMENT GROUND
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EM, EMERG	EMERGENCY
EMT	ELECTRIC METALLIC CONDUIT
ENCL	ENCLOSURE
EQ, EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
(F)	
F	FUSE
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FDR	FEEDER
FL, FLR	FLOOR
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FT	FOOT/FEET (')
NAC	FIRE ALARM EXTENDER PANEL
(G)	
G, GND, GRD	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
(H)	
H	HORIZONTAL MOUNTING
HH	HAND HOLE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HT	HEIGHT
HTR	HEATER
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HZ	HERTZ
(I)	
IG	ISOLATED GROUND
IN	INCH/INCHES (")
INCAND	INCANDESCENT
(J)	
JB, JBOX	JUNCTION BOX
(K)	
K	KEY INTERLOCK
Kcmil	1000 CIRCULAR mils
KV	KILOVOLTS (THOUSAND VOLTS)
KVA	KILOVOLTS-AMPERES (THOUSAND VOLT-AMPS)
kW	KILOWATTS (THOUSAND WATTS)
KWH	KILOWATT-HOURS
(L)	
L-G	LINE TO GROUND
L-L	LINE TO LINE
L-N	LINE TO NEUTRAL
LA	LIGHTNING ARRESTOR
LAN	LOCAL AREA NETWORK
LC, LCP	LIGHTING CONTROL PANEL
LP	LIGHTING PANEL
LSI	LONG-TIME, SHORT-TIME, INSTANTANEOUS
LSIA	LONG-TIME, SHORT-TIME, INSTANTANEOUS, GROUND-FAULT ALARM ONLY
LSIG	LONG-TIME, SHORT-TIME, INSTANTANEOUS, GROUND-FAULT
LTG	LIGHTING
LV	LOW VOLTAGE (BELOW 50 VOLTS)
(M)	
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE (OVER 600V LESS THAN 35KV)
(N)	
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO., NUM, #	NUMBER
NTS	NOT TO SCALE
(O)	
OC	ON CENTER
OCPD	OVERCURRENT PROTECTION DEVICE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OHE/T	OVERHEAD ELECTRIC/TELEPHONE
OPP	OPPOSITE
(P)	
P	POLE
PA	PUBLIC ADDRESS
PB	PULL BOX
PDP	POWER DISTRIBUTION PANEL
PE	PHOTO ELECTRIC
PF	POWER FACTOR
PH, Ø	PHASE
PNL	PANEL
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
(Q)	
QTY	QUANTITY
(R)	
R, RE	RELOCATE AS SHOWN
RCLP	REMOTE CONTROL LIGHTING PANEL
RCPT	RECEPTACLE
REF	REFRIGERATOR
RF	RADIO FREQUENCY
RLA	RATED (RUNNING) LOAD AMPS
RM	ROOM
RP	RECEPTACLE PANELBOARD
RSC	RIGID STEEL CONDUIT
(S)	
SCH, SCHED	SCHEDULE
SEC	SECONDARY
SF	SQUARE FOOT
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPEC(S)	SPECIFICATION(S)
SPKR	SPEAKER
SPST	SINGLE POLE SINGLE THROW
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
(T)	
TB	TERMINAL BLOCK
TBB	TELEPHONE BACKBOARD
TC	TIME CLOCK
TEL, TELE	TELEPHONE
TELECOM	TELECOMMUNICATIONS
TP	TAMPERPROOF
TV	TELEVISION
TYP	TYPICAL
(U)	
UG	UNDERGROUND
UGP	UNDERGROUND PRIMARY
UGS	UNDERGROUND SECONDARY
UGT	UNDERGROUND TELEPHONE
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
(V)	
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE/ VARIABLE FREQUENCY MOTOR CONTROLLER
(W)	
W	WIRE
W/	WITH
W/O	WITHOUT
WHM	WATT HOUR METER
WP	WEATHERPROOF
(X)	
X	REMOVE DEVICE
XFMR	TRANSFORMER
(Z)	
% Z	PERCENT IMPEDANCE

REFERENCE SYMBOLS



FIRE ALARM SYMBOLS

- STROBE - CEILING MOUNTED
- FA SPEAKER W/STROBE - CEILING MOUNTED
- SMOKE DETECTOR - SURFACE OR CEILING MOUNTED
- F — MANUAL FIRE ALARM PULL STATION
- AR — FIRE ALARM ADDRESSABLE RELAY (OUTPUT)
- FACP — FIRE ALARM CONTROL PANEL (FACP)
- NAC — NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDER PANEL (NAC)
- AMP — FIRE ALARM AMPLIFIER PANEL (AMP)
- FATC — FIRE ALARM TERMINAL CABINET (FATC)

GENERAL NOTES

A. THE WORK INCLUDES, BUT IS NOT LIMITED TO MODIFYING AND EXTENDING AN EXISTING COMPLETELY SUPERVISED, INTELLIGENT, ADDRESSABLE FIRE ALARM AND DETECTION SYSTEM AS INDICATED IN THE CONTRACT DOCUMENTS. THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO MODIFICATION OR ADDITION OF WIRING, RACEWAYS, PULL BOXES, TERMINAL CABINETS, OUTLET AND MOUNTING BOXES, CONTROL EQUIPMENT, ALARM AND SUPERVISORY SIGNALS, INITIATING DEVICES, ALARM NOTIFICATION APPLIANCES, NOTIFICATION ALARM PANELS, INTERFACE EQUIPMENT, AND ALL OTHER ACCESSORIES AND MISCELLANEOUS ITEMS INCLUDING SOFTWARE, SYSTEM PROGRAMMING, TEST AND CONSTRUCTION PERMITS REQUIRED FOR A COMPLETE OPERATING SYSTEM NORMALLY AND CUSTOMARILY REQUIRED, WHETHER INDICATED OR INHERENTLY NECESSARY DUE TO THE NATURE OF THE WORK. THE WORK SHALL COMPLY WITH THE APPLICABLE CODES AS STIPULATED BY THE DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS. UNLESS INDICATED OTHERWISE, ALL SYSTEM COMPONENT SHALL BE LISTED FOR THE INTENDED PURPOSE BY A NATIONAL RECOGNIZED TESTING LABORATORY. THE CONTRACTOR SHALL CONDUCT A FULL FUNCTIONAL TEST OF THE EXISTING FIRE ALARM AND DETECTION SYSTEM PRIOR TO COMMENCEMENT OF WORK. DEFICIENCIES SHALL BE PROMPTLY BROUGHT TO THE OWNER'S AND ENGINEER'S ATTENTION IN WRITING.

B. ANY CONFLICT AND/OR DISCREPANCY BETWEEN THESE GENERAL NOTES AND ANY OTHER INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL AND BE A REQUIREMENT OF THE WORK. ANY SUCH CONFLICT AND/OR DISCREPANCY SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT AND ENGINEER.

C. PROVIDE ALL NECESSARY PERMITS, INSPECTIONS AND FINAL SYSTEM ACCEPTANCE FROM THE AUTHORITY HAVING JURISDICTION (AHJ) AND OWNER.

D. THE TERM "PROVIDE" SHALL MEAN FURNISH, INSTALL AND CONNECT EQUIPMENT/DEVICE FOR A COMPLETE AND OPERATIONAL SYSTEM.

E. THE THE TERM "REMOVE" SHALL MEAN DISCONNECT EQUIPMENT/DEVICE AND CLEAR FROM SITE, AS WELL AS MAINTAINING UPSTREAM AND DOWNSTREAM EQUIPMENT/DEVICES AS REQUIRED.

F. VERIFY AND COORDINATE ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.

G. NOTIFY THE GOVERNMENT AT LEAST 48 HOURS IN ADVANCE PRIOR TO DISRUPTING ANY EXISTING SYSTEMS.

H. A WORK PLAN SHALL BE PROPOSED BY THE CONTRACTOR TO THE OWNER OR OWNER'S REPRESENTATIVE TO DEMONSTRATE THAT THE WORK WILL BE PERFORMED IN SUCH MANNER TO MINIMIZE THE AMOUNT OF TIME THE EXISTING FIRE ALARM SYSTEM WILL BE OUT OF SERVICE. NOTIFY THE OWNER AND OBTAIN WRITTEN PERMISSION AT LEAST TWO BUSINESS DAYS IN ADVANCE PRIOR TO DISRUPTING ANY EXISTING FIRE ALARM SYSTEMS. PROVIDE COMPENSATING FIRE PROTECTION INCLUDING, BUT NOT LIMITED TO, FIRE WATCH SERVICE IF THE FIRE ALARM SYSTEM IS TAKEN OUT OF SERVICE FOR MORE THAN 4 HOURS IN A 24-HOUR PERIOD.

I. FIRE PROTECTION FOR BUILDING SYSTEMS SERVING OUT-OF-CONTRACT AREAS, SUCH AS SMOKE DETECTORS FOR ELEVATOR RECALLS, MUST BE MAINTAINED THROUGHOUT CONSTRUCTION PROGRESS. DEVICE RESTORATION, AS ALLOWED BY NFPA 72, OR REPLACEMENT ARE REQUIRED UPON CONSTRUCTION COMPLETION.

J. NEW DEVICES (OR EXISTING TO REMAIN FUNCTIONAL) INSTALLED IN CONSTRUCTION AREAS THROUGHOUT COURSE OF CONSTRUCTION SHALL BE PROTECTED AS INSTRUCTED BY THE MANUFACTURER UNTIL SYSTEM IS FULLY OPERATIONAL.

K. COORDINATE ALL WORK AND AVOID ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLS, DUCTS, STRUCTURAL MEMBERS, PIPES AND OTHER OBSTRUCTIONS.

L. COORDINATE LOCATION OF AUTOMATIC SPRINKLER FLOW AND VALVE SUPERVISORY SWITCHES PRIOR TO CONDUIT ROUGH-IN TO ENSURE ACCESSIBILITY AND MINIMIZE LENGTH OF FLEXIBLE CONDUIT RUNS NECESSARY TO MAKE CONNECTIONS.

M. SUBJECT TO ANY CODE RESTRICTION AND/OR REQUIREMENT AND UNLESS OTHERWISE NOTED, PROVIDE ELECTRICAL METALLIC TUBING (EMT). IN AREAS WITHOUT CEILINGS, EMT CONDUIT SHALL BE INSTALLED AS UNOBTRUSIVELY AS POSSIBLE, AS CLOSE AS POSSIBLE TO FLOOR/CEILING SLAB AND PARALLEL, AND AT RIGHT ANGLES TO STRUCTURAL STEEL OR CONCRETE. CONCEAL ALL CONDUITS ABOVE SUSPENDED CEILINGS AND BEHIND WALLS. IN UNFINISHED AREAS, CONDUIT MAY BE SURFACE MOUNTED UNLESS OTHERWISE NOTED. EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT FINISH.

N. LOCATE FIRE ALARM DEVICES INSTALLED IN ACOUSTICAL TILE CEILINGS IN THE CENTER OF THE TILE.

O. SUBJECT TO ANY INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS, MOUNT ALL VISUAL WARNING STROBE/AUDIBLE NOTIFICATION APPLIANCES TO ACHIEVE MAXIMUM AUDIBILITY INTELLIGIBILITY, AND VISIBILITY IN ACCORDANCE WITH CURRENT ADAAG GUIDELINES. PROVIDE CARE IN LOCATING VISUAL WARNING STROBE APPLIANCES TO INSURE VISIBILITY AND AVOID OBSTRUCTIONS.

P. ALL WALL AND FLOOR PENETRATIONS SHALL BE CORE-DRILLED WITH MASONRY OR CONCRETE TYPE CORE BITS. AFTER CONDUIT INSTALLATION, ALL PENETRATIONS IN WALLS, CEILINGS AND FLOORS SHALL BE SEALED TO THE FULL THICKNESS OF THE PENETRATION WITH APPROVED FIRESTOPPING MATERIAL TO PROVIDE EQUAL OR GREATER FIRE RESISTANCE. ALL SLAB-TO-SLAB WALL SHALL BE CONSIDERED TO BE OF 1-HOUR FIRE RESISTIVE RATED CONSTRUCTION, EXCEPT STAIRWAY , SHAFT ENCLOSURES, AND FLOOR SLABS SHALL BE CONSIDERED 2-HOUR FIRE RESISTIVE RATED CONSTRUCTION. FLOOR PENETRATION FIRESTOPS SHALL BE PROVIDED WITH 2-HOUR T- AND F- RATING.

Q. DAMAGE TO WALLS, CEILINGS, FLOORS, AND STRUCTURAL MEMBERS FROM THE WORK SHALL BE PATCHED, REPAIRED AND PAINTED WITH NEW MATERIALS TO MATCH ADJACENT WORK, WHETHER SPECIFICALLY NOTED OR NOT.

R. ELECTRICAL BOXES SHALL BE PROVIDED AS FOLLOWS:
   I) EXPOSED WORK - CAST METAL BELL TYPE BOXES WITH THREADED HUB, EXCEPT WHERE FACTORY BOXES ARE PROVIDED; AND
   II) CONCEALED WORK - BOXES MAY BE STAMPED STEEL BOXES.

S. PROVIDE TERMINAL CABINETS OF SOLID WALL CONSTRUCTION WITH NO FACTORY CONDUIT KNOCK OUTS.

T. PROVIDE COMPRESSION TYPE STEEL FITTINGS AND CONNECTORS FOR BOTH EXPOSED AND CONCEALED CONDUITS INCLUDING RISERS UP TO 2 INCHES IN DIAMETER.

U. PROVIDE ¾-INCH MINIMUM EMT TRADE SIZE CONDUIT, UNLESS OTHERWISE NOTED. VERTICAL RISERS SHALL BE ONE INCH DIAMETER EMT MINIMUM.

V. MATCH FIRE ALARM CIRCUITS, SURVIVABILITY LEVELS, AND WIRING CONDUCTORS WITH WHAT IS EXISTING.

GENERAL DEMOLITION NOTES

A. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS DURING THE CONTRACTOR'S PRE-BID SITE VISIT(S) AND BRING TO THE ATTENTION OF THE ARCHITECT/ENGINEER ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL SITE CONDITION PRIOR TO BID FOR CLARIFICATION. AFTER A CONTRACT IS EXECUTED, THE CONTRACTOR SHALL SUBMIT A "REQUEST FOR INFORMATION".

B. THE REQUIRED DEMOLITION IS NOT LIMITED TO THAT PORTION INDICATED ON THE PLANS ALONE, BUT SHALL INCLUDE ALL NECESSARY WORK COINCIDENTAL THERETO AND WORK INDICATED ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS WHICH IS NECESSARY TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS.

C. THE CONTRACTOR SHALL NOT VIOLATE THE PHYSICAL SECURITY OF THE BUILDING DURING DEMOLITION OR ASSOCIATED OPERATIONS. COORDINATED SECURITY CLOSELY WITH THE OWNER.

D. THE CONTRACTOR SHALL SCHEDULE ALL WORK, INCLUDING INTERRUPTIONS OF THE EXISTING UTILITIES, WITH THE OWNER. PRIOR TO STARTING WORK, CONTRACTOR SHALL NOTE THAT THE BUILDING WILL BE OCCUPIED AND IN USE DURING PERIODS OF TIME THAT WORK UNDER THIS CONTRACT IS BEING PERFORMED.

E. THE CONTRACTOR SHALL ARRANGE DEMOLITION TO AGREE WITH THE ACCOMPLISHMENT OF WORK UNDER THE VARIOUS PHASES AND IN COORDINATION WITH THE REQUIRED MODIFICATIONS.

F. DO NOT ALTER THE EXISTING SYSTEMS WHICH ARE LOCATED IN AREAS DESIGNATED "NIC" UNLESS SPECIFICALLY INDICATED. PROTECT EXISTING SYSTEMS WITHIN THE LIMITS OF WORK WHICH ARE TO BE RETAINED. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED EQUIPMENT OR SYSTEMS DUE TO CONTRACTOR NEGLIGENCE TO ITS ORIGINAL CONDITION AND TO THE COMPLETE SATISFACTION OF THE OWNER, AND AT NO COST TO THE OWNER.

G. ALL FIRE ALARM DEVICES AND EQUIPMENT INDICATED TO BE REMOVED SHALL HAVE ALL ASSOCIATED WIRING REMOVED BACK TO THE NEAREST DEVICE OR ELECTRICAL JUNCTION BOX AND TERMINATED IN A CONCEALED LOCATION.

H. "CONCEALED LOCATION" IS DEFINED AS BEING ABOVE FINISHED CEILING, BELOW FINISHED FLOOR OR WITHIN FINISHED WALL OR PARTITION. SEE ARCHITECTURAL PLANS FOR FINISH INFORMATION.

I. ALL DEVICES, EQUIPMENT, WIRING AND ACCESSORIES WHICH HAVE BEEN REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE FROM THE PROJECT SITE ALL DEMOLISHED DEVICES, EQUIPMENT, WIRING AND ACCESSORIES AS SOON AS POSSIBLE.

J. REMOVAL OF FIRE ALARM EQUIPMENT SHALL TERMINATE WHERE DAMAGE WOULD OCCUR TO BUILDING IF FURTHER REMOVAL OCCURED. DEMOLISH CONDUIT TO CEILING LEVEL AND REMOVE WIRING CONDUCTORS UNDER THIS CONDITION. ALL FIRE ALARM CONDUIT LOCATED ON THE EXTERIOR OF THE BUILDING SHALL BE DEMOLISHED TO THE INSIDE OF THE BUILDING. ABANDONED OUTLETS IN WALLS SHALL BE REMOVED AND WALLS PATCHED AND PAINTED TO MATCH ADJACENT FINISH. ALL ABANDONED FIRE ALARM BACKBOXES AND CONDUIT SHALL BE TAGGED AND MARKED "ABANDONED". NO BLACK COVER PLATES SHALL BE USED IN WALLS. ABANDONED OUTLETS IN CEILINGS SHALL BE COVERED WITH BRUSHED STAINLESS STEEL COVER PLATES OR PAINTED TO MATCH ADJACENT CEILING FINISH. ALL UNUSED DEVICES SHALL BE REMOVED.

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE

FIRE ALARM ABBREVIATIONS AND SYMBOLS

PROJECT NUMBER 12808.000

CD 1.FA.001

SHEET NUMBER

Author

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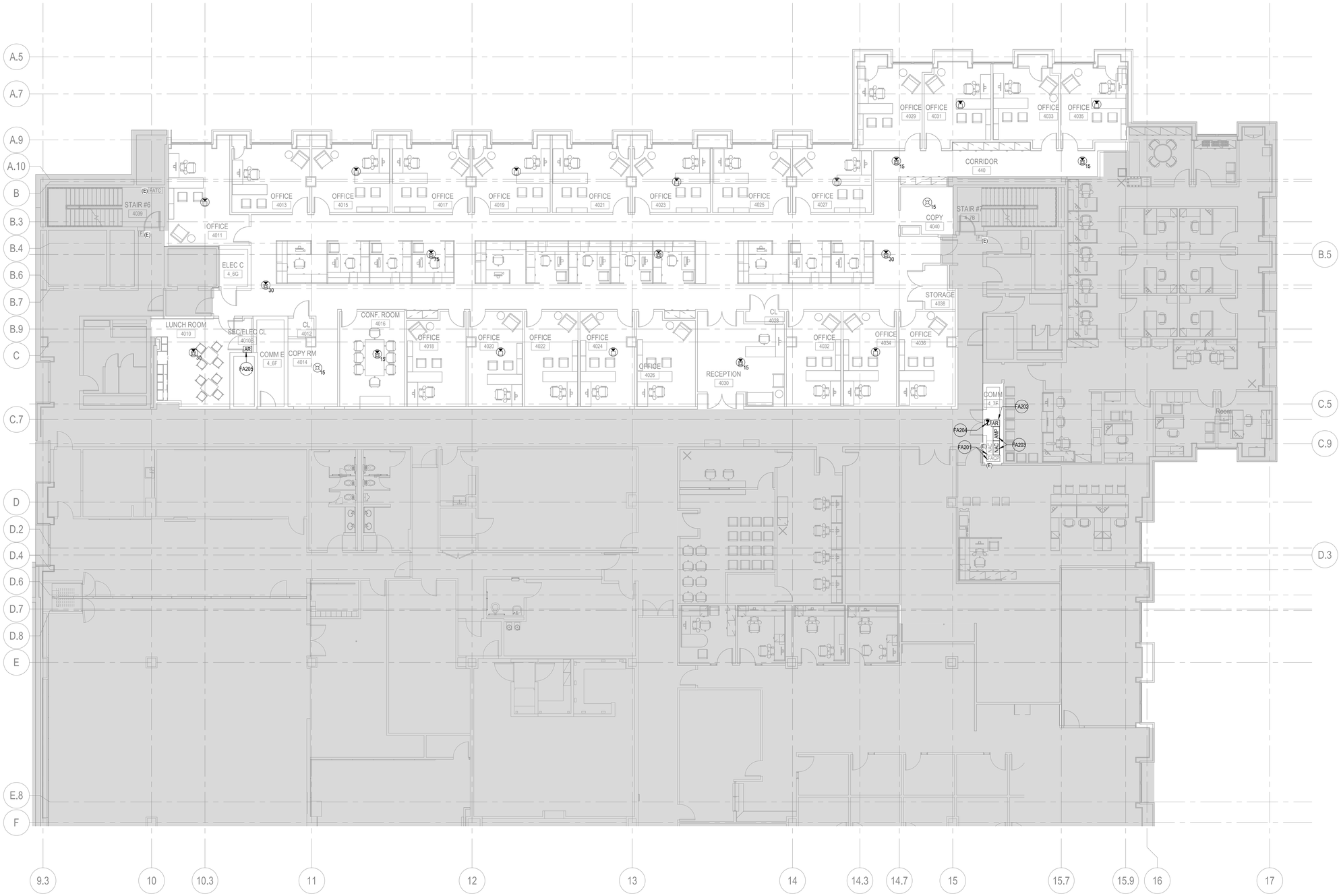

1 FOURTH LEVEL FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A. REFER TO 1.FA.001 FOR FIRE ALARM ABBREVIATIONS AND SYMBOLS.

B. EXISTING FIRE ALARM DEVICES ARE TO BE DEMOLISHED AND REPLACED WITH NEW DEVICES. NEW DEVICES SHALL MATCH COLOR OF EXISTING DEVICES.

C. EXISTING FIRE ALARM PANELS LOCATED IN COMMUNICATIONS ROOM F - 4, 7F. PROVIDE LOAD CALCULATIONS TO CONFIRM SUFFICIENT CAPCITY OF EXISTING PANELS. PROVIDE NEW NAC AND AMP TO SERVE AREA OF WORK. NEW NAC AND AMP PANELS SHALL BE COMPATIBLE WITH BASE BUILDING FIRE ALARM EQUIPMENT.

D. ALL FIRE ALARM DEVICES ARE TO BE COMPATIBLE WITH EXISTING SIEMENS FIRE ALARM CONTROL PANEL (FACP).

E. ANY SPOT-TYPE AREA SMOKE DETECTORS SERVING THE AREA OF WORK ARE EXISTING TO REMAIN, UON.

F. COORDINATE ALL CEILING MOUNTED FIRE ALARM DEVICES WITH FINISHED CEILING HEIGHTS ON ARCHITECTURAL REFLECTED CEILING PLANS.

G. FOR ALL CEILING MOUNTED DEVICES MOUNTED IN OPEN CEILINGS, LOCATE AT HEIGHT SO THAT THE TOP OF THE DEVICE IS ALIGNED WITH THE LOWEST ADJACENT CEILING FOR FULL OCCUPANT VISIBILITY.

H. LOCATE FIRE ALARM DEVICES IN CENTER OF TILE WHEN THEY ARE TO BE INSTALLED IN ACOUSTICAL CEILING.

I. AREA IN GRAY SHADING IS NOT IN SCOPE OF THE PROJECT. NO NEW WORK ASSOCIATED WITH THE AREA, UON. FIRE ALARM DEVICES IN THIS AREA SHALL REMAIN FULLY FUNCTIONAL AT ALL TIMES.

J. MATCH EXISTING FIRE ALARM SEQUENCE OF OPERATIONS.

SHEET KEYNOTES

FA201 LOCATION OF EXISTING FIRE ALARM PANELS. CONTRACTOR TO CONFIRM SPARE CAPACITY AND SUBMIT SUPPORTING DOCUMENTATION PRIOR TO MODIFICATION OF SYSTEM.

FA202 PROVIDE ADDRESSABLE RELAY MODULE(S) TO SIGNAL ALARM CONDITION TO EMERGENCY LIGHTING ZONES. COORDINATE WITH E SERIES AND ELECTRICAL CONTRACTOR TO DETERMINE RELAY QUANTITY REQUIRED.

FA203 PROVIDE NEW NAC AND AMP PANEL TO SUPPORT NOTIFICATION APPLIANCES.

FA204 PROVIDE SPOT-TYPE SMOKE DETECTOR WITHIN 5 FEET OF FIRE ALARM PANELS.

FA205 PROVIDE ADDRESSABLE RELAY MODULE(S) FOR AUTOMATIC UNLOCKING OF EGRESS DOORS EQUIPPED WITH ELECTRIC LOCKS. UNLOCKING SHALL COMMENCE UPON ACTIVATION OF THE FIRE ALARM, FIRE DETECTION, AND AUTOMATIC SPRINKLERS SYSTEM. ELECTRIC LOCK SHALL REMAIN UNLOCKED UNTIL THE FIRE ALARM SYSTEM HAS BEEN RESET. COORDINATE WITH A SERIES AND TY SERIES DRAWINGS FOR LOCATION AND QUANTITY OF DOORS , HARDWARE, AND SECURITY DEVICES.

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE
FOURTH LEVEL FIRE ALARM PLAN

PROJECT NUMBER
12808.000

CD 1.FA.104
SHEET NUMBER

Author

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TECHNOLOGY ABBREVIATIONS

GENERAL

#	NUMBER
+18"	MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE ABOVE FINISHED FLOOR OR FINISHED GRADE
AC	ALTERNATING CURRENT
ADA	AMERICAN WITH DISABILITIES ACT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ARCH	ARCHITECT
AV	AUDIOVISUAL
AVC	AUDIOVISUAL CONTRACTOR
AWG	AMERICAN WIRE GAUGE
B	BURIED
BD	BLACK DROP
BLDG	BUILDING
BET	BUILDING ENTRANCE TERMINAL
C	CONDUIT
CA	CABLE
CAB	CABINET
CH	CASE HEIGHT
CW	CASE WIDTH
CD	CASE DEPTH
CAT	CATALOG
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CL	CENTERLINE
CLG	CEILING
EMT	ELECTRIC METALLIC TUBING
EC	ELECTRICAL CONTRACTOR
EST	ESTIMATE
EQUIP	EQUIPMENT
EXIST, (E)	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FPD	FLAT PANEL DISPLAY
HH	HANDHOLE
IH	IMAGE HEIGHT
IHAF	BOTTOM OF IMAGE HEIGHT ABOVE FINISHED FLOOR
IW	IMAGE WIDTH
GC	GENERAL CONTRACTOR
JB	JUNCTION BOX
KO	KNOCK OUT
LV	LOW VOLTAGE
MH	MANHOLE
M, MIC	MICROPHONE
M, MTR	MOTOR
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PR	PROJECTOR
PRS	PROJECTION SCREEN
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OTHER INSTALLED
QTY	QUANTITY
REQ'D	REQUIRED
RHAFF	BOTTOM OF ROLLER HOUSING ABOVE FINISHED FLOOR
RGS	RIGID GALVANIZED STEEL
SCC	STRUCTURED CABLE CONTRACTOR
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED-PAIR
WP	WEATHER-PROOF
XP	EXPLOSION PROOF

TECHNOLOGY SPECIFIC

J#	AV JUNCTION BOX
N#	TELECOM JUNCTION BOX
P#	POWER OUTLET
J#(N#)	JUNCTION BOX W/ AV AND TELECOM
J#(P#)	JUNCTION BOX W/ AV AND POWER
J#(N#,P#)	JUNCTION BOX W/ AV, TELECOM AND POWER
FB#	FLOOR BOX
FB#(N#)	FLOOR BOX W/ TELECOM
FB#(P#)	FLOOR BOX W/ AV AND POWER
FB#(N#,P#)	FLOOR BOX W/ AV, TELECOM AND POWER
FP#	FLOOR POKE-THRU DEVICE
FP#(N#)	FLOOR POKE-THRU DEVICE W/ TELECOM
FP#(P#)	FLOOR POKE-THRU DEVICE W/ AV AND POWER
FP#(N#,P#)	FLOOR POKE-THRU DEVICE W/ AV, TELECOM AND POWER
FS#	FLOOR CONDUIT STUB

TECHNOLOGY SYMBOLS LEGEND

(THIS IS A MASTER LEGEND, NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.)

GENERAL

SYMBOL	DESCRIPTION
	NEW WORK
	EXISTING WORK TO REMAIN
	EXISTING WORK TO BE REMOVED (DEMO)
# T### /RISER	CONDUIT RISER - DETAIL # / SHEET #
T### #	ELEVATION SYMBOL - DETAIL # / SHEET #
# T###	SECTION SYMBOL - DETAIL # / SHEET #

TECHNOLOGY TAG DESIGNATIONS

DISPLAY TYPE AND MOUNTING STYLE

NUMBER DESIGNATES THE DISPLAY TYPE — 2a — LETTER DESIGNATES THE DISPLAY MOUNTING STYLE

(REFER TO THE DISPLAY TYPE AND PROJECTOR & DISPLAY MOUNTING STYLE LEGENDS FOR MORE INFORMATION)

PROJECTION TYPE AND MOUNTING STYLE

LETTER DESIGNATES THE PROJECTION SCREEN TYPE — A2 — NUMBER DESIGNATES THE PROJECTOR MOUNTING STYLE

(REFER TO THE PROJECTION SCREEN TYPE AND PROJECTOR & DISPLAY MOUNTING STYLE LEGENDS FOR MORE INFORMATION)

TELECOM DESIGNATORS

SYMBOL DESIGNATES FLOOR, WALL OR CEILING

N-NUMBER DESIGNATES BOX-TYPE & MOUNTING STYLE — N2A — LETTER DESIGNATES CABLE PULL TYPE

(REFER TO THE TELECOM CABLING LEGEND FOR MORE INFORMATION)

VERTICAL PLACEMENT

J#,# OR J#N# OR N#N#

(DENOTES DEVICES WHICH FALL ON THE SAME VERTICAL PLANE)

TECHNOLOGY DEVICES

SYMBOL	DESCRIPTION
	FLOOR BOX / FLOOR POKE-THRU DEVICE / FLOOR CONDUIT STUB
	WALL JUNCTION BOX
	CEILING JUNCTION BOX
	FLOOR TELECOM OUTLET
	WALL TELECOM OUTLET
	CEILING TELECOM OUTLET
	FLOOR POWER CIRCUIT
	FLOOR POWER DUPLEX RECEPTACLE
	FLOOR POWER DOUBLE DUPLEX RECEPTACLE
	WALL POWER CIRCUIT
	WALL POWER DUPLEX RECEPTACLE
	WALL POWER DOUBLE DUPLEX RECEPTACLE
	CEILING POWER CIRCUIT
	CEILING DUPLEX RECEPTACLE
	CEILING DOUBLE DUPLEX RECEPTACLE
S	CEILING LOUDSPEAKER BY AV CONTRACTOR - SHOWN FOR COORDINATION PURPOSES ONLY. EXACT LOCATION TO BE COORDINATED BY THE AV CONTRACTOR.
C	CEILING AV CAMERA BY AV CONTRACTOR - SHOWN FOR COORDINATION PURPOSES ONLY. EXACT LOCATION TO BE COORDINATED BY THE AV CONTRACTOR.
M	CEILING AV MICROPHONE BY AV CONTRACTOR - SHOWN FOR COORDINATION PURPOSES ONLY. EXACT LOCATION TO BE COORDINATED BY THE AV CONTRACTOR.
	FLAT PANEL DISPLAY BY AV CONTRACTOR - SHOWN FOR COORDINATION PURPOSES ONLY.
	PROJECTOR BY AV CONTRACTOR - SHOWN FOR COORDINATION PURPOSES ONLY.
	PROJECTION SCREEN - REFER TO THE PROJECTION SCREEN TYPE LEGEND AND NOTES FOR MORE INFORMATION.

TECHNOLOGY DEVICES

SYMBOL	DESCRIPTION
	ACCESS PANEL
	LARGE JUNCTION BOX
	CABLE BASKET - REFER TO PLANS FOR SIZE
	CABLE RUNWAY - REFER TO PLANS FOR SIZE
	CONDUIT - REFER TO PLANS FOR SIZE
FB	CONDUIT - RESERVED FOR FIBER BACKBONE
CB	CONDUIT - RESERVED FOR COPPER BACKBONE
HC	CONDUIT - RESERVED FOR HORIZONTAL CABLING
F	CONDUIT - RESERVED FOR FUTURE
S	CONDUIT - RESERVED FOR SECURITY
/	FIRE RATED ASSEMBLY
	BUILDING ENTRANCE TERMINAL
	CATV TAP
	GROUNDING BUSBAR
	MAIN GROUNDING BUSBAR
	ELECTRICAL / SECURITY PANEL
	TERMINATION BLOCK - 66 STYLE
	TERMINATION BLOCK - 110 STYLE
	VERTICAL CABLE MANAGER
	RACK - 2 POST
	RACK - 4 POST
	EQUIPMENT RACK
	PLYWOOD BACKBOARD

TELECOM BUILDING RISER

SYMBOL	DESCRIPTION
COPPER	48 - PORT COPPER PATCH PANEL, RACK MOUNT
OPTICAL	48 - PORT OPTICAL FIBER PANEL, RACK MOUNT
	110 - STYLE PUNCHDOWN BLOCK, WALL MOUNT
TMGB	TELECOM MAIN GROUNDING BUSBAR (TMGB), WALL MOUNT
TGB	TELECOM GROUNDING BUSBAR (TGB), WALL MOUNT
	PRIMARY CABLE PROTECTION, WALL MOUNT
	CATV HEAD END EQUIPMENT
	CATV TAP
	CONDUIT - REFER TO PLANS FOR SIZE
	144 - PORT OPTICAL FIBER PANEL, RACK MOUNT

AUDIOVISUAL ROOM RISERS

SYMBOL	DESCRIPTION
N A P	AN AUDIOVISUAL DEVICE WHICH CONTAINS A POWER RECEPTACLE AND A TELECOM OUTLET
A	AUDIOVISUAL JUNCTION BOX
N	TELECOM JUNCTION BOX
P	POWER DESIGNATIONS
	CONDUIT STUB
	FLEXIBLE CONDUIT RUN
	J-HOOK

CONTRACTOR RESPONSIBILITY MATRIX

ITEM / TASK	FURNISH	INSTALL
UNISTRUT, THREADED ROD, SUPPORT CABLE, FASTENERS OR OTHER HARDWARE REQUIRED TO ATTACH AUDIOVISUAL WALL OR CEILING MOUNTS TO STRUCTURE	GC	GC
ROUGH OR FINISHED TRIM, CASEWORK AND MILLWORK	GC	GC
STRUCTURAL BACKING ("BLOCKING") AS REQUIRED TO SUPPORT WALL MOUNTED AUDIOVISUAL COMPONENTS AND STRUCTURAL WORK FOR SPECIAL CONSTRUCTION	GC	GC
AC POWER SYSTEMS, CONDUIT, RACEWAYS, ELECTRICAL BACK BOXES, JUNCTION BOXES, PULL BOXES, FLOOR BOXES AND OTHER INFRASTRUCTURE	GC	GC
LIGHTING FIXTURES, DIMMING SYSTEMS AND WALL CONTROLLERS	GC	GC
LOW VOLTAGE AV CONTROL INTERFACE FOR LIGHTING SYSTEM (DIMMER SIDE) AND PATHWAY TO AUDIOVISUAL CONTROL SYSTEM EQUIPMENT RACK	GC	GC
LOW VOLTAGE AV CONTROL INTERFACE FOR MOTORIZED WINDOW SHADES AND PATHWAY TO AUDIOVISUAL CONTROL SYSTEM EQUIPMENT RACK	GC	GC
TELECOMMUNICATIONS STRUCTURED CABLING SYSTEMS, HORIZONTAL AND BACKBONE CABLING AND TERMINATION, ASSOCIATED CABINETS, RACKS, RACEWAYS AND CABLE MANAGEMENT SYSTEMS	SCC	SCC
TELECOMMUNICATIONS CONNECTOR INSERT PLATES FOR FLOOR BOXES AND / OR WALL BOXES	SCC	SCC
PROJECTION SCREENS - WALL MOUNTED, CEILING MOUNTED, OR FIXED FRAME	GC	GC
AUDIOVISUAL CONNECTOR INSERT PLATES FOR FLOOR BOXES AND / OR WALL BOXES	AVC	AVC
AUDIOVISUAL CABLING AND TERMINATIONS FOR AUDIOVISUAL SYSTEMS	AVC	AVC
PROJECTORS, FLAT PANEL DISPLAYS, CONTROL PANELS, MICROPHONES, SPEAKERS AND OTHER AUDIOVISUAL EQUIPMENT	AVC	AVC
LECTERNS / SPECIALTY TECHNICAL FURNITURE	AVC	AVC
AUDIOVISUAL EQUIPMENT RACKS	AVC	AVC

NOTES:

1. ALL ITEMS AND TASKS LISTED ARE THE RESPONSIBILITY OF THE NOTED CONTRACTOR.

TECHNOLOGY GENERAL NOTES

DRAWINGS:
NOTIFY THE DESIGNER OF ANY DISCREPANCIES BETWEEN THESE CONTRACT DRAWINGS AND FIELD CONDITIONS.

INSTALLATION:
INSTALL ALL COMPONENTS AS PER MANUFACTURERS RECOMMENDATIONS AND PER ALL APPLICABLE CODES.

SUBSTITUTIONS:
THE MAKE AND MODEL OF LOW VOLTAGE INFRASTRUCTURE DEVICES IN THE TECHNOLOGY LEGENDS HAVE BEEN LISTED TO ESTABLISH THE DESIRED LEVEL OF QUALITY AND PERFORMANCE FOR EACH DEVICE. UNLESS OTHERWISE INDICATED, THE INSTALLING CONTRACTOR MAY SUBSTITUTE THESE DEVICES WITH EQUIVALENT APPROVED PRODUCT BY OTHER MANUFACTURERS.

DEVICE MOUNTING:
DEVICE SPECIFIED MOUNTING ELEVATIONS ARE "ON CENTER" UNLESS OTHERWISE NOTED. ALL DEVICE HEIGHTS SHALL COMPLY WITH ANSI 117.1 CHAPTER 3, SECTION 307. PROTRUDING OBJECTS AND CHAPTER 3, SECTION 308. REACH RANGES. IF ANY DEVICE OR BOX SPECIFICED WITHIN IS FOUND TO BE IN CONFLICT WITH ABOVE SECTIONS A CONFIRMING RFI SHOULD BE PLACED PRIOR TO RELOCATING.

FLOOR BOX, JUNCTION BOX, AND PULL BOX COVERS:
UNLESS OTHERWISE DIRECTED, ALL FLOOR BOXES, JUNCTION BOXES, AND PULL BOXES MUST BE PROVIDED WITH A COVER. WHERE RAISED DEVICE COVERS ARE SPECIFIED IN THE SCHEDULE, MATCH THE RAISED COVER DEPTH TO THE WALL THICKNESS. WHERE JUNCTION BOXES ARE MOUNTED AT OR ABOVE FINISHED CEILING HEIGHT, INSTALL JUNCTION BOX WITH OPEN SIDE FACING DOWN.

FIRE STOPPING:
THE FIRE STOP SYSTEM SHALL COMPLY WITH THE IBC, NEC AND WITH NFPA 101-LIFE SAFETY CODE (LATEST EDITION) AND SHALL BE MADE AVAILABLE FOR INSPECTION BY THE LOCAL INSPECTION AUTHORITIES PRIOR TO CABLE SYSTEM ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FIRE RATING OF ALL WALLS AND FLOORS HAVING PENETRATIONS. COORDINATE SEALANT INSTALLATION WITH WORK OF OTHER TRADES. REFER TO GENERAL AND / OR ELECTRICAL SPECIFICATION SECTIONS FOR FURTHER MATERIAL AND INSTALLATION PARAMETERS.

GROUNDING:
GROUND COMMUNICATIONS SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH THE ANSI/TIA-607-C GROUNDING STANDARD AND APPLICABLE NEC REQUIREMENTS EXCEPT WHERE THE DRAWINGS OR SPECIFICATIONS EXCEED NEC REQUIREMENTS. ALL RACKS, METALLIC BACKBOARDS, CABLE SHEATHS, METALLIC STRENGTH MEMBERS, SPLICE CASES, CABLE TRAYS, ETC. ENTERING OR RESIDING IN TECHNICAL EQUIPMENT SPACES SHALL BE GROUNDED TO THEIR RESPECTIVE GROUND SYSTEM USING A MINIMUM #6 AWG STRANDED COPPER BONDING CONDUCTOR AND COMPRESSION CONNECTORS. ALL WIRES USED FOR TECHNICAL POWER SYSTEMS GROUNDING PURPOSES SHALL BE IDENTIFIED WITH GREEN INSULATION OR IDENTIFIED AT EACH TERMINATION POINT WITH A WRAP OF GREEN TAPE. ALL CABLES AND BUS BARS SHALL BE IDENTIFIED AND LABELED "TECHNICAL POWER SYSTEM GROUND".

TECHNICAL POWER & GROUNDING SYSTEM:
DUE TO THE SENSITIVE NATURE OF ELECTRONIC EQUIPMENT THAT IS BEING USED, POWER QUALITY MUST BE ASSURED. POWER FOR TECHNOLOGY SYSTEMS SHOULD BE DERIVED FROM DEDICATED TECHNICAL POWER PANELS WHICH DO NOT SHARE CIRCUITS WITH EQUIPMENT LOADS THAT GENERATE ELECTRICAL NOISE ON THE POWER LINE. THIS MIGHT INCLUDE: AIR CONDITIONING EQUIPMENT, MOTORS, HEAVY INDUSTRIAL EQUIPMENT, OR DIMMED LIGHTING LOADS; ALL OF WHICH CREATE TRANSIENTS, HARMONICS, SURGES AND SPIKES. FOR ADDITIONAL GUIDELINES REFER TO THE IEEE STD. 1100 (2005) EMERALD BOOK "RECOMMENDED PRACTICE FOR POWERING AND GROUNDING ELECTRONIC EQUIPMENT". WHERE PRACTICAL, ALL TECHNICAL POWER CIRCUITS FOR EQUIPMENT WITHIN A ROOM SHOULD BE ON THE SAME PHASE TO ENSURE PROPER EQUIPMENT TIMING WITHIN THE SYSTEM.

TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) DEVICES SHOULD BE PROVIDED AT POWER DISTRIBUTION PANELS SERVING TECHNICAL POWER CIRCUITS. THESE TVSS DEVICES MUST BE INSTALLED ACCORDING TO NEC ARTICLE 285. ALL DEVICES MUST BE UL 1449 COMPLIANT. IN BROADCAST APPLICATIONS OR IN LARGE SYSTEMS, A SEPARATELY DERIVED TECHNICAL POWER SOURCE PROVIDED BY AN ELECTROSTATICALLY SHIELDED ISOLATION TRANSFORMER MAY BE REQUIRED.

ALL TECHNICAL POWER OUTLETS MUST BE WIRED AS "ALWAYS ON". NO OUTLETS SERVING TECHNOLOGY SYSTEMS SHALL BE ON SWITCHED, TIME OF DAY, OR OCCUPANCY CONTROLLED OUTLETS.

TECHNICAL GROUND SYSTEM (TGS)
TECHNICAL GROUND SHALL CONSIST OF AN INSULATED GROUND CONDUCTOR FROM THE PANEL BOARD TO EACH TECHNICAL GROUND RECEPTACLE. AT THE RECEPTACLE, THE GROUND CONDUCTOR SHALL BE ELECTRICALLY ISOLATED FROM THE ELECTRICAL BOX AND CONDUIT SYSTEM.

TECHNICAL ELECTRICAL SUPPLY GROUNDING SHALL BE VIA A GROUNDING ELECTRODE AND MEET NEC ARTICLE 250 REQUIREMENTS. A TECHNICAL POWER SYSTEM IS FURTHER DEFINED IN NEC ARTICLE 640 AS "AN ELECTRICAL DISTRIBUTION SYSTEM WITH GROUNDING IN ACCORDANCE WITH 250.146(D). WHERE THE EQUIPMENT GROUNDING CONDUCTOR IS ISOLATED FROM THE PREMISES GROUNDING CONDUCTOR EXCEPT AT A SINGLE GROUNDED TERMINATION POINT WITHIN A BRANCH-CIRCUIT PANEL BOARD, AT THE ORIGINATING (MAIN BREAKER) BRANCH-CIRCUIT PANEL BOARD, OR AT THE PREMISES GROUNDING ELECTRODE".

INSULATED GROUNDING CONDUCTORS FROM THE BREAKER PANEL BOARDS SHALL BE IN A "STAR" CONFIGURATION AND NOT LOOP FROM ONE PANEL TO THE NEXT PANEL. AT EACH BREAKER PANEL, PROVIDE AN INSULATED GROUND BUS BAR FOR CONNECTIONS OF ALL TGS INSULATED GROUND CONDUCTORS AND NO OTHERS. THE GREEN SAFETY GROUND WIRES FROM EACH TGS RECEPTACLE OR CIRCUIT ARE BROUGHT TO THIS BUS. EACH TECHNICAL POWER RECEPTACLE SHALL BE OF A UNIQUE COLOR AND / OR CLEARLY AND PERMANENTLY LABELED "TECHNICAL POWER".

RISER GENERAL NOTES

RISER DRAWINGS AND CONDUIT ROUTING
THE ROOM RISER DRAWINGS ARE DIAGRAMMATIC IN NATURE. CONDUIT PATHS SHOWN ON THE ROOM RISERS ARE INTENDED TO CONVEY REQUIRED DEVICE INTERCONNECTION AND SIZES ONLY. ACTUAL CONDUIT ROUTING IN THE FIELD MAY BE REQUIRED TO FOLLOW ROUTING CONTRARY TO THAT IMPLIED BY THE ROOM RISER. CONDUIT ROUTING IS AT CONTRACTOR'S DISCRETION, BUT THE CONTRACTOR SHALL PROVIDE A PULL BOX IMMEDIATELY BEFORE AND AFTER ANY CONDUIT RUN SECTION CONTAINING TWO NINETY-DEGREE TURNS, OR ANY SINGLE RUN EXCEEDING FIFTY FEET IN LENGTH REGARDLESS OF WHETHER PULL BOXES ARE SHOWN ON THE DRAWINGS OR NOT, IN ALL CASES. CONDUIT ROUTES SHALL FOLLOW THE SHORTEST PATH POSSIBLE WHILE COMPLYING WITH INDUSTRY STANDARDS AND BEST PRACTICES.

CONDUIT RUNS:
ALL CONDUIT RUNS SHALL BE STEEL, THIN-WALL ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE INDICATED. THE USE OF FLEXIBLE CONDUIT IS NOT PERMISSIBLE EXCEPT WHERE INDICATED ON THE DRAWINGS. CONDUIT SIZES AND INTERCONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS.

CONDUIT STUBS
TERMINATE CONDUIT STUBS INTO CLEAR SPACE 18 INCHES ABOVE ACCESSIBLE CEILING IN ROOM INDICATED.

NYLON BUSHINGS:
PROVIDE A NYLON BUSHING ON ALL CONDUIT STUBS AND NON-TERMINATING CONDUIT ENDS TO PROTECT WIRE PULLS.

PULL STRINGS
ALL CONDUIT RUNS SHALL BE PROVIDED WITH A #12 PULL STRING OR EQUAL.

POWER DESIGNATORS AND RECEPTACLES
POWER DESIGNATORS AND RECEPTACLES WHICH APPEAR ON THE ROOM RISER DRAWINGS ARE SHOWN TO INDICATE THEIR ASSOCIATION WITH AND REQUIRED ADJACENCY TO AUDIOVISUAL COMPONENTS. NOTE THAT NOT ALL POWER RECEPTACLES REQUIRED TO SUPPORT THE AUDIOVISUAL SYSTEMS ARE SHOWN ON THE ROOM RISER DIAGRAMS; ONLY THOSE THAT ARE PART OF OR INTERFACE WITH THE AUDIOVISUAL JUNCTION BOXES ARE SHOWN. REFER TO THE AUDIOVISUAL INFRASTRUCTURE PLANS, ELEVATIONS AND DETAILS FOR ADDITIONAL GUIDANCE REGARDING AUDIOVISUAL POWER LOCATIONS. REFER TO THE ELECTRICAL DRAWINGS FOR COMPLETE POWER LAYOUTS AND CIRCUITING DETAILS.

TELECOM OUTLETS
JUNCTION BOXES FOR TELECOM OUTLETS WHICH APPEAR ON THE ROOM RISER DRAWINGS ARE SHOWN TO INDICATE THEIR ASSOCIATION WITH AND REQUIRED ADJACENCY TO AUDIOVISUAL COMPONENTS.

AV SPECIFIC ROOM RISERS
NOT ALL TELECOM OUTLETS REQUIRED TO SUPPORT THE AUDIOVISUAL SYSTEMS ARE SHOWN ON THE ROOM RISER DIAGRAMS; ONLY THOSE THAT ARE PART OF OR INTERFACE WITH AUDIOVISUAL JUNCTION BOXES ARE SHOWN. REFER TO THE AUDIOVISUAL INFRASTRUCTURE PLANS, ELEVATIONS AND DETAILS FOR ADDITIONAL GUIDANCE REGARDING AUDIOVISUAL TELECOM OUTLET LOCATIONS. REFER TO THE STRUCTURED CABLING DRAWINGS FOR COMPLETE TELECOMMUNICATIONS PATHWAYS, OUTLETS AND CABLING REQUIREMENTS.

CONDUITS SHOWN ON THE ROOM RISER DRAWINGS ARE FOR AV ONLY AND SHALL NOT BE USED FOR TELECOM CABLES.

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ISSUED FOR	REV	DATE
95% CONSTRUCTION DOCUMENTS		04/12/2021
DESIGN DEVELOPMENT		03/09/2021
SCHEMATIC DESIGN		01/18/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
TECHNOLOGY INFRASTRUCTURE LEGENDS AND LEGEND NOTES

PROJECT NUMBER 12808

CD 1.T.001
SHEET NUMBER

Plot Date: 4/12/2021 5:03:11 PM Author

TECHNOLOGY JUNCTION BOX LEGEND

TYPE		FUNCTION	ENCLOSURE DIMENSIONS			ENCLOSURE DESCRIPTION	ENCLOSURE MAKE & MODEL	MOUNTING STYLE	REFERENCE DETAIL	LEGEND NOTES
SYM	STYLE		LENGTH	WIDTH	DEPTH					
FP1	FLOOR	FLOOR RECESS POKE-THRU W/ AV, TELECOM AND POWER	6"	6"	16 1/4"	POKE-THRU DEVICE	WIREMOLD EVOLUTION 6AT	FLUSH WITH FINISHED FLOOR	1/1.T.901	A, B
FS1	FLOOR	FLOOR CONDUIT STUB	1 1/4"	1 1/4"	3"	CONDUIT STUB UNDER FURNITURE	N/A	STUB TO 3" ABOVE FINISHED FLOOR	-	-
J1	WALL	FLAT PANEL DISPLAY PULL BOX	4 11/16"	4 11/16"	2 1/8"	PULL BOX W/ RAISED TWO-DEVICE COVER	RACO 258, 259 OR 265	60" AFF - FLUSH	2/1.T.901	-
J2	WALL	AV I/O PANEL	4 11/16"	4 11/16"	3 1/4"	PULL BOX W/ RAISED TWO-DEVICE COVER	RACO 260	PROJECT STANDARD OUTLET HEIGHT - FLUSH (UNLESS OTHERWISE NOTED)	-	-
J3	WALL	FLAT PANEL DISPLAY PULL BOX	4 11/16"	4 11/16"	2 1/8"	PULL BOX W/ RAISED TWO-DEVICE COVER	RACO 258, 259 OR 265	72" AFF - FLUSH	2/1.T.901	-

TECHNOLOGY TELECOM JUNCTION BOX LEGEND

TYPE		FUNCTION	ENCLOSURE DIMENSIONS			ENCLOSURE DESCRIPTION	ENCLOSURE MAKE & MODEL	MOUNTING STYLE	REFERENCE DETAIL	LEGEND NOTES
SYM	STYLE		LENGTH	WIDTH	DEPTH					
N1	WALL	TELECOM OUTLET - FLAT PANEL DISPLAY	4 11/16"	4 11/16"	2 1/8"	PULL BOX W/ RAISED SINGLE-DEVICE COVER	RACO 258, 259 OR 265	60" AFF - FLUSH (UNLESS OTHERWISE NOTED)	2/1.T.901	C, D
N2	WALL	TELECOM OUTLET - STANDARD	4 11/16"	4 11/16"	2 1/8"	PULL BOX W/ RAISED SINGLE-DEVICE COVER	RACO 258, 259 OR 265	PROJECT STANDARD OUTLET HEIGHT - FLUSH (UNLESS OTHERWISE NOTED)	-	C, D, E
N3	WALL	TELECOM OUTLET - FLAT PANEL DISPLAY	4 11/16"	4 11/16"	2 1/8"	PULL BOX W/ RAISED SINGLE-DEVICE COVER	RACO 258, 259 OR 265	72" AFF - FLUSH (UNLESS OTHERWISE NOTED)	2/1.T.901	C, D
N4	FLOOR	TELECOM OUTLET - FLOOR	-	-	-	POKE-THRU INDICATED BY FP-NUMBER	COORDINATE W/ ASSOCIATED POKE-THRU	INSTALL IN POKE-THRU PER MFR DIRECTIONS	1/1T.901	A, B, C, D
N5	WALL	TELECOM OUTLET - IN FURNITURE	4 11/16"	4 11/16"	2 1/8"	COORDINATE WITH FURNITURE	-	COORDINATE INSTALLATION WITH FURNITURE	-	C
N20	CEILING	TELECOM OUTLET - WAP	4 11/16"	4 11/16"	2 1/8"	PULL BOX W/ BLANK COVER	RACO 258, 259 OR 265	18" ABOVE ACCESSIBLE CEILING	-	C

TECHNOLOGY POWER LEGEND

TYPE		FUNCTION	VOLTS	AMPS	NEMA	DESCRIPTION	ADDITIONAL REQUIREMENTS	MOUNTING STYLE	REFERENCE DETAIL	LEGEND NOTES
SYM	STYLE									
P1	WALL	POWER RECEPTACLE - FLAT PANEL DISPLAY	120	20	5-20R	DOUBLE DUPLEX RECEPTACLE	TECHNICAL GROUND	60" AFF - FLUSH (UNLESS OTHERWISE NOTED)	2/1.T.901	F
P2	WALL	POWER RECEPTACLE - TECHNOLOGY	120	20	5-20R	DUPLEX RECEPTACLE	TECHNICAL GROUND	PROJECT STANDARD OUTLET HEIGHT- FLUSH (UNLESS OTHERWISE NOTED	-	F
P3	WALL	POWER RECEPTACLE -FLAT PANEL DISPLAY	120	20	5-20R	DOUBLE DUPLEX RECEPTACLE	TECHNICAL GROUND	72" AFF - FLUSH (UNLESS OTHERWISE NOTED)	2/1.T.901	F
P4	FLOOR	POWER RECEPTACLE - POKE-THRU	120	20	5-20R	DUAL DUPLEX RECEPTACLES INSIDE POKE-THRU	TECHNICAL GROUND	INSTALL IN POKE-THRU PER MFR DIRECTIONS	1/1.T.901	A, B, F

TECHNOLOGY LEGEND NOTES

(A) FLOOR BOXES AND FLOOR PENETRATIONS:
VERIFY EXACT LOCATION, COVER STYLE AND FINISH WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE ON-GRADE OR FIRE-RATED VERSION FLOOR BOXES AS REQUIRED.

(B) FP#(N#,P#) POKE-THRU CONFIGURATION:
WIREMOLD EVOLUTION SERIES 6AT POKE-THRU DEVICE WITH FINISHED COVER. VERIFY COVER STYLE AND FINISH WITH ARCHITECT PRIOR TO ORDERING. INCLUDED COMPONENTS: TEMPORARY CONSTRUCTION COVER, 5PTHA 1/2-GANG PASS-THRU HOUSING, 1PTHA 1-GANG PASS-THRU HOUSING ASSEMBLY, AND 575CHA 1/2-GANG 'C' CONDUIT HOUSING ASSEMBLY. PROVIDE AS REQUIRED: POWER RECEPTACLES, COMMUNICATION JACKS, CENTER MOUNT DEVICE PLATES, SIDE MOUNT DEVICE PLATES, BOTTOM FEED ASSEMBLIES, AND OTHER ACCESSORIES AS NEEDED. CONFIGURE BOX ACCORDING TO DETAILS. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

(C) TELECOM OUTLETS AND ASSOCIATED CONDUITS:
CONDUIT MUST BE PROVIDED FOR ALL TELECOM JUNCTION BOXES. SEE THE "TELECOM TYPICAL CONDUIT RISER" FOR CONDUIT REQUIREMENTS BY TELECOM JUNCTION BOX TYPE. REFER TO THE TELECOM PLANS FOR THE LOCATIONS OF JUNCTION BOXES AND FLOOR BOXES, AND THE "TELECOM CABLING LEGEND" FOR OUTLET CONFIGURATION REQUIREMENTS. TELECOM CABLING, OUTLETS AND COVER PLATES PROVIDED BY THE STRUCTURED CABLING SYSTEMS CONTRACTOR.

(D) TELECOM OUTLETS FOR AUDIOVISUAL SYSTEMS:
TELECOM OUTLETS SHOWN ON THE DRAWINGS ARE REPRESENTATIVE OF TELECOM CONNECTIVITY REQUIREMENTS IN SUPPORT OF AUDIOVISUAL SYSTEMS. THE LOCATION OF TELECOM OUTLETS FOR AUDIOVISUAL EQUIPMENT IN RELATION TO OTHER TECHNOLOGY INFRASTRUCTURE MAY BE CRITICAL. REFER TO THE STRUCTURED CABLING SYSTEM SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL INFORMATION.

(E) POWER RECEPTACLES ADJACENT STANDARD TELECOM WALL OUTLETS:
N# STANDARD TELECOM WALL OUTLETS SHOULD HAVE A DUPLEX POWER RECEPTACLE LOCATED WITHIN 36" OF THE TELECOM WALL OUTLET. IDEALLY, THE TELECOM OUTLET BOX WILL BE MOUNTED TO ONE SIDE OF A STUD, AND THE POWER BOX TO THE OPPOSITE SIDE OF THE STUD.

(F) POWER RECEPTACLES
TECHNICAL POWER RECEPTACLES, INCLUDING THOSE WITHIN FLOOR BOXES, WALL BOXES, OR CEILING BOXES, ARE PROVIDED BY ELECTRICAL CONTRACTOR AND APPEAR ON THE ELECTRICAL DRAWINGS. THE TECHNICAL POWER RECEPTACLES ALSO APPEAR ON THE TECHNOLOGY INFRASTRUCTURE DRAWINGS FOR COORDINATION AND LOCATION PURPOSES. THE LOCATION OF TECHNICAL POWER RECEPTACLES IN RELATION TO OTHER TECHNOLOGY INFRASTRUCTURE MAY BE CRITICAL. REFER TO THE ELECTRICAL DRAWINGS FOR COMPLETE POWER LAYOUTS AND CIRCUITING DETAILS.

TELECOM CABLING LEGEND

TYPE	CAT6 QTY	CAT6A QTY	FIBER QTY	COAX QTY	REFERENCE DETAIL	NOTES
A	0	2	0	1	4/T9.02	-
B	0	4	0	0	4/T9.02	-
C	0	2	0	0	-	TERMINATED ON BISCUIT JACK FOR WAP LOCATIONS
D	0	0	0	0	-	FURNITURE FEED

DISPLAY TYPE LEGEND

ALL DIMENSIONS IN INCHES / WEIGHT IN POUNDS

TYPE	NOMINAL IMAGE DIAGONAL	NOMINAL CASE SIZE			NOMINAL WEIGHT	BACKING	
		HEIGHT (H)	WIDTH (W)	DEPTH (D)		HEIGHT (H)	WIDTH (W)
1	55"	29"	50"	4"	64	24"	48"

DISPLAY MOUNTING STYLE LEGEND

MOUNTING STYLE	INSTALLATION	REFERENCE DETAIL
a	WALL MOUNTED DISPLAY	2/1.T.901

FLAT PANEL DISPLAY MOUNTING STYLE DETAILS

REFER TO THE PROJECTOR & DISPLAY MOUNTING STYLE LEGEND FOR MORE INFORMATION.

ROOM DISPLAY SCHEDULE

ALL DIMENSIONS IN INCHES

ROOM NUMBER	DISPLAY QTY	DISPLAY TYPE	MOUNTING STYLE	ELEV AFF OC
4010	1	1	a	72"
4016	1	1	a	60"

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE
TECHNOLOGY INFRASTRUCTURE LEGENDS, SCHEDULES AND GENERAL NOTES

PROJECT NUMBER 12808

CD

SHEET NUMBER 1.T.002

Plot Date: 4/12/2021 5:03:14 PM Author

AUDIOVISUAL SPECIFICATIONS

PART 1 – GENERAL

A. GENERAL PROVISIONS

1. THE PURPOSE OF THESE DOCUMENTS IS TO PROVIDE SUFFICIENT DETAIL FOR THE BIDDER TO UNDERSTAND THE FUNCTIONAL REQUIREMENTS OF THE SYSTEMS, THE INSTALLATION AND PERFORMANCE STANDARDS THAT MUST BE MET, AND THE REQUIRED SCOPE OF WORK, IN ORDER TO GENERATE AND SUBMIT A COMPLETE AND ACCURATE BID.

2. THE GENERAL CONDITIONS, REQUIREMENTS, AND SPECIAL PROVISIONS, OF ANY LARGER BODY OF SPECIFICATIONS, OF WHICH THIS SPECIFICATION MAY BE A PART, ARE HEREBY MADE A PART OF THIS SPECIFICATION. IN THE EVENT THAT ANY CLAUSES OR PROVISIONS OF THE LARGER BODY OF SPECIFICATION CONFLICT WITH THE LETTER OR INTENT OF THIS SPECIFICATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONSULTANT FOR CLARIFICATION AND DIRECTION.

B. CONTRACTOR QUALIFICATIONS

1. THE CONTRACTOR SHALL BE AN AUTHORIZED RESELLER AND INSTALLER OF PRODUCTS WITHIN THIS PROJECT.

C. SCOPE OF WORK

1. THE CONTRACTOR SHALL PROVIDE COMPLETE, TURNKEY AUDIOVISUAL SYSTEMS PERFORMING ALL OF THE SERVICES AND FUNCTIONS AS DESCRIBED OR GENERALLY INFERRED HEREIN, TOGETHER WITH ALL OTHER APPARATUS, CABLE, MATERIALS, LABOR, CONFIGURATION / PROGRAMMING, TESTING, TOOLS, TRANSPORTATION, AND ANY OTHER RESOURCES NECESSARY TO PROVIDE A COMPLETE SYSTEM.

2. COORDINATION - COMMUNICATING AND COORDINATING DIRECTLY WITH THE CONSULTANT, OWNER, ARCHITECT AND OTHER TRADES COMPLYING WITH ALL REQUIREMENTS AS DEFINED UNDER THIS SCOPE OF WORK AND ELSEWHERE, TO FULFILL ALL REQUIREMENTS OF THIS SPECIFICATION. THE CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH THAT OF OTHER TRADES. THE CONTRACTOR SHOULD ANTICIPATE ATTENDING WEEKLY PROJECT COORDINATION MEETINGS WITH THE OWNER, ARCHITECT, GENERAL CONTRACTOR, CONSULTANT OR OTHER TRADES AS REQUIRED.

D. SITE CONDITIONS

1. CONFLICTS - THE BIDDER SHALL BE RESPONSIBLE FOR INVESTIGATING ANY POTENTIAL CONFLICTS WITH SITE-RELATED OR UNION-RELATED ISSUES REGARDING USE OF PERSONNEL, SCHEDULING, ACCESS TO THE SITE, STORAGE OF TOOLS AND EQUIPMENT ON-SITE, AND OTHER AREAS OF POTENTIAL CONFLICT. IF THESE ISSUES IMPACT THE BIDDER'S BID RESPONSE, THE IMPACTS ON COST AND SCHEDULE SHOULD BE CLEARLY NOTED IN THE BID RESPONSE.

2. THE CONTRACTOR SHALL VERIFY DIMENSIONS OF EQUIPMENT, EQUIPMENT ARRANGEMENTS, SPACE AVAILABILITY (INCLUDING ANY MILLWORK OR CABINETRY PROVIDED BY OTHERS) AND PROVIDE SYSTEMS THAT WORK WITHIN THE CONSTRAINTS OF THE SPACE AVAILABLE. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY SITUATION WHERE SPACE CONSTRAINTS ARE A PROBLEM, PRIOR TO THE SUBMISSION OF SHOP DRAWINGS OR THE ORDERING OR PURCHASE OF EQUIPMENT. THE CONTRACTOR SHALL BEAR THE EXPENSE OF PROVIDING ALTERNATE EQUIPMENT, WHICH WILL WORK WITHIN THE AVAILABLE SPACE, IF SPACE AVAILABILITY PROBLEMS ARE DISCOVERED AFTER SHOP DRAWINGS ARE SUBMITTED AND APPROVED.

3. DRAWINGS INDICATE LOCATIONS OF EQUIPMENT AND COMPONENTS. CHANGES IN THE LOCATION, AND OFFSETS OF SAME TO ACCOMMODATE BUILDING CONDITIONS, AND COORDINATION WITH THE WORK OF OTHER TRADES SHALL BE MADE PRIOR TO INITIAL INSTALLATION, WITHOUT ADDITIONAL COST TO THE OWNER.

4. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL CONDUIT, BOXES, AND OTHER CABLING PATHWAYS AS INDICATED IN THE INFRASTRUCTURE REFERENCE DRAWINGS AND PROVIDED BY OTHERS. THIS REVIEW SHALL INCLUDE THE DRAWINGS AS WELL AS AS-BUILT CONDITIONS ON SITE. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT, GENERAL CONTRACTOR, AND ARCHITECT OF ANY DEFICIENCIES, ISSUES, OR INCORRECT INSTALLATIONS ON SITE THAT MAY IMPACT THE INSTALLATION OF THE AUDIOVISUAL SYSTEMS CABLING OR EQUIPMENT AS SPECIFIED. FAILURE TO PERFORM THIS REVIEW WILL RESULT IN A REVISED CABLING APPROACH TO BE DESIGNED, PROPOSED, AND IMPLEMENTED BY THE CONTRACTOR, WITH ANY ADDITIONAL COSTS BORNE BY THE CONTRACTOR.

5. ALL EQUIPMENT, CABLING, MATERIALS, AND INSTALLATION METHODOLOGY SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE CURRENT PUBLISHED EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL OTHER APPLICABLE LAWS AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ANY ADDITIONAL PERMITS AND INSPECTIONS REQUIRED BY ALL LEGAL AUTHORITIES AND AGENCIES HAVING JURISDICTION OVER THE CONTRACTOR'S WORK.

E. QUALITY ASSURANCE

1. UNLESS OTHERWISE STATED, ALL EQUIPMENT FOR THIS INSTALLATION WILL BE NEW, LESS THAN ONE YEAR FROM THE DATE OF MANUFACTURE, AND WITHOUT BLEMISH OR DEFECT.

2. ALL ELECTRICAL, ELECTRONIC AND OPTICAL EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE A PRODUCT OF COMPANIES REGULARLY ENGAGED IN THE MANUFACTURE OF ELECTRICAL, ELECTRONIC OR OPTICAL EQUIPMENT.

3. ALL EQUIPMENT MUST BE PURCHASED FROM A MANUFACTURER-APPROVED DISTRIBUTOR OR RESELLER. PURCHASE OF EQUIPMENT FROM A NON-APPROVED RESELLER IS PROHIBITED.

4. WHERE APPLICABLE, ALL EQUIPMENT MUST HAVE THE MANUFACTURER'S LATEST FIRMWARE VERSION INSTALLED PRIOR TO TESTING AND SYSTEMS PERFORMANCE VERIFICATION.

5. THE CONTRACTOR SHALL SUPPLY AND INSTALL ANY INCIDENTAL EQUIPMENT NEEDED IN ORDER TO RESULT IN A COMPLETE AND OPERABLE SYSTEM WITHOUT CLAIM FOR ADDITIONAL PAYMENT, EVEN IF SUCH EQUIPMENT IS NOT LISTED IN THIS SPECIFICATION.

6. ALL WORK RELATED TO THIS SPECIFICATION SHALL BE COMPLETED IN A PROFESSIONAL MANNER BY FULLY QUALIFIED WORKERS.

7. THE CONTRACTOR SHALL SUPPLY DISPLAY MOUNTING HARDWARE THAT IS COMPLIANT WITH AMERICANS WITH DISABILITIES (ACT) ADVISORY 307 FOR PROTRUDING OBJECTS.

F. SUBMITTALS

1. FOLLOWING CONTRACT AWARD, THE CONTRACTOR SHALL PREPARE AND SUBMIT PROJECT SUBMITTAL DOCUMENTATION TO THE CONSULTANT. PROJECT SUBMITTAL DOCUMENTATION TO INCLUDE:

   a. THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF MAJOR PROJECT MILESTONES TO THE OWNER, ARCHITECT, OR CONSULTANT.

   b. CONTRACTOR SHALL SUBMIT A BRIEF PROGRESS REPORT VIA E-MAIL TO THE OWNER OR AN AUTHORIZED REPRESENTATIVE OF THE OWNER. THE PROGRESS REPORTS SHOULD BE CONCISE, UTILIZING BULLET POINTS OR OTHER EFFICIENT FORMAT. THE PROGRESS REPORTS SHALL BE SUBMITTED ON A WEEKLY BASIS.

   c. THE CONTRACTOR MUST RECEIVE WRITTEN APPROVAL FROM THE OWNER OR AN AUTHORIZED REPRESENTATIVE OF THE OWNER, IN WRITING, PRIOR TO PURCHASING, FABRICATING OR INSTALLING ANY EQUIPMENT OR MATERIALS. APPROVAL TO PROCEED WILL BE GIVEN BASED UPON SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE:

      a. SYSTEM SIGNAL FLOW
      b. CABLING SCHEDULE AND LABELING SCHEME
      c. MOUNTING DETAILS
      d. CUSTOM INTERCONNECT PANELS
      e. FURNITURE IF PROVIDED BY THE AV CONTRACTOR
      f. STRUCTURAL ANCHORAGE CALCULATIONS, DRAWINGS AND DETAILS – IF REQUIRED. TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
      g. OTHERS, AS MAY BE REQUIRED BY THE ARCHITECT, CONSULTANT OR OWNER.

   d. THE CONTRACTOR SHALL SUBMIT A COMPREHENSIVE BILL OF MATERIALS CONCURRENTLY WITH THE SHOP DRAWING SUBMITTAL.

   e. THE CONTRACTOR SHALL PREPARE A PACKAGE OF PRODUCT CUT SHEETS FOR REVIEW WITH THE OWNER AT THE TIME OF THE SHOP DRAWINGS.

G. FINAL AS BUILT DOCUMENTATION

1. FOLLOWING SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL PREPARE AND SUBMIT A FINAL DOCUMENTATION SET TO THE CONSULTANT. FINAL AS BUILT DOCUMENTATION TO INCLUDE:

   a. AS BUILT DRAWINGS
   b. SCHEDULE OF IP AND MAC ADDRESSES FOR ALL ETHERNET ENABLED AV DEVICES, ORGANIZED BY ROOM NAME AND NUMBER, IF APPLICABLE.
   c. LISTING OF EACH SUPPLIED ITEM WITH MANUFACTURER, MODEL NUMBER AND SERIAL NUMBER, ORGANIZED BY ROOM NAME AND NUMBER.
   d. OPERATOR'S MANUALS FOR EACH PIECE OF EQUIPMENT SUPPLIED BY THE CONTRACTOR.
   e. QUICK REFERENCE GUIDES
   f. COPIES OF ALL SOURCE CODE USED FOR THE DEVELOPMENT OF THE PROJECT SOFTWARE, IF APPLICABLE
   g. WARRANTY STATEMENT: A STATEMENT ON THE CONTRACTOR'S LETTERHEAD LISTING THE OFFICIAL START AND END DATES FOR THE CONTRACTOR'S WARRANTY ON ALL EQUIPMENT, MATERIALS, AND LABOR USED IN THE PROJECT. THE START DATE SHALL CORRESPOND WITH THE ESTABLISHED SUBSTANTIAL COMPLETION DATE, AND THE END DATE SHALL BE BASED ON THE TIMEFRAME OF WARRANTY COVERAGE PURCHASED BY THE OWNER AS PART OF THE CONTRACT.

H. WARRANTY

1. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, MATERIALS, AND LABOR FOR A PERIOD OF (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.

2. DURING THE WARRANTY PERIOD, WITHIN (24)HOURS OF NOTIFICATION, THE CONTRACTOR SHALL ANSWER ALL SERVICE CALLS AND REQUESTS FOR INFORMATION.

3. DURING THE WARRANTY PERIOD, WITHIN (96) HOURS OF ORIGINAL NOTIFICATION, THE CONTRACTOR SHALL PROVIDE EMERGENCY SERVICE TO RESTORE OPERATION OF THE SYSTEM, REPLACING DEFECTIVE MATERIALS, REPAIRING FAULTY WORKMANSHIP, MAKING TEMPORARY REPAIRS, AND PROVIDING LOANER EQUIPMENT AS NECESSARY, ALL AT NO CHARGE.

4. PROVIDE (4) PREVENTATIVE MAINTEANANCE SERVICE CALLS WITH ONE EVERY (90) DAYS DURING THE INTIAL WARRANTY PERIOD TO PERFRM SYSTEM MAINTENANCE AND ANY RELEVANT FIRM OR SOFTWARE UPDATES.

PART 2 – PRODUCTS

A. GENERAL

1. REFER TO DRAWING SHEETS FOR SIGNAL FLOW DIAGRAMS.

2. CONTRACTOR IS RESPONSIBLE FOR PERFORMING DEVICE TAKE-OFFS FROM THE SIGNAL FLOW DIAGRAMS. CONTRACTOR SHALL UTILIZE DEVICES FROM THE FOLLOWING APPROVED MANUFACTURER/DEVICE LIST. WHERE A SPECIFIC MANUFACTURER IS NOT SHOWN FOR A PRODUCT CATEGORY, CONTRACTOR SHALL PROVIDE A PRODUCT WHICH IS COMPARABLE TO OTHER MANUFACTURERS SPECIFIED HEREIN.

3. WHERE THERE ARE MULTIPLE INSTANCES OF THE SAME PRODUCT TYPE IN THE PROJECT THE CONTRACTOR SHALL UTILIZE THE SAME MANUFACTURER AND LINE, WHERE APPLICABLE, FOR THE PRODUCT CATEGORIES LISTED BELOW.

4. ACCEPTABLE MANUFACTURERS/PRODUCTS:

   a. DISPLAYS - FOR PANTRIES AND LUNCHROOMS – SHARP, LG, PANASONIC COMMERCIAL LCD DISPLAY WITH INTEGRAL CLEAR QAM TUNER. PROFESSIONAL GRADE, 16/7 OR 24/7 OPERATION
   b. MOUNTS – PREMIER, CHIEF
   c. VIDEO TRANSPORT – CRESTRON ELECTRONICS
   d. WIRELESS PRESENTATION GATEWAY - BAROO
   e. CABLE DISTRIBUTION – CABLE PROVIDER PROVIDED SET TOP BOX (STB)
   f. USB VIDEOCONFERENCING SYSTEM - CRESTRON ELECTRONICS, LOGITECH

5. CONTRACTOR SHALL PROVIDE ALL AUDIOVISUAL CABLING WITHIN THIS PROJECT. APPROVED CABLE MANUFACTURERS ARE BELDEN, LIBERTY, MOGAMI, CANARE, MONSTER, COMPREHENSIVE, WEST PENN WIRE AND CRESTRON. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EQUIVALENT CABLING THAT IS APPROPRIATE FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.

   a. ALL CABLES RUNNING BELOW SLAB ON GRADE OR IN AN OUTDOOR SETTING SHALL BE OUTDOOR RATED.

   b. ALL CABLES BEING INSTALLED WITHIN A PLENUM ENVIRONMENT MUST BE PLENUM RATED.

6. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY INSTALLATION MATERIALS INCLUDING, BUT NOT LIMITED TO: INSTALLED CABLE, LOOSE CABLE, TERMINATIONS, SIGNAL EXTENDERS, CABLE MANAGEMENT, VOICE/DATA/VIDEO PATCH CORDS, ADAPTERS, I/O PANELS, DEVICE MOUNTS (FLAT PANELS , SPEAKERS, , ETC.), CABLE DRESSING, LACING BARS, COPPER BUS BARS, LABELS, RACK SHELVES, RACK MOUNTS, POWER SUPPLIES AND ADAPTERS, POWER STRIPS/DISTRIBUTION AND OTHER MATERIALS AS NEEDED TO INSTALL THE SYSTEMS DEFINED HEREIN.

7. ITEMS SHOWN AS "OFCI" (OWNER FURNISHED CONTRACTOR INSTALLED) WILL BE FURNISHED BY THE OWNER FOR INSTALLATION BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR COORDINATING DIRECTLY WITH OWNER.

B. SYSTEMS DESCRIPTIONS

REFER TO DRAWINGS AND NOTES ON DRAWINGS FOR REQUIREMENTS.

PART 3 – EXECUTION

A. GENERAL

1. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THIS SPECIFICATION, APPROVED SHOP DRAWINGS, AND MANUFACTURER'S RECOMMENDATIONS.

2. ALL EQUIPMENT, WITH THE EXCEPTION OF PORTABLE EQUIPMENT, SHALL BE FIRMLY FASTENED OR ATTACHED IN PLACE. A SAFETY FACTOR OF AT LEAST FIVE SHALL BE UTILIZED FOR ALL BRACKETS, FASTENERS AND ATTACHMENTS.

3. THE CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS INSTALLED SUCH THAT PROPER COOLING AND VENTILATION IS PROVIDED.

4. ALL EQUIPMENT SHALL BE INSTALLED IN A MANNER, WHICH PREVENTS HUM, RF/EMI/EMF INTERFERENCE, AND MECHANICAL VIBRATION BASED NOISES (E.G. FAN MOUNTS, ETC.)

5. ALL EQUIPMENT SHALL BE PROTECTED FROM CONSTRUCTION DUST AND DEBRIS UNTIL THE DATE OF SUBSTANTIAL COMPLETION.

B. CABLING

1. ALL CABLING INSTALLED BY THE CONTRACTOR TO SUPPORT AV SYSTEMS CONNECTIVITY SHALL MEET THE EQUIPMENT MANUFACTURER'S SPECIFICATIONS FOR CABLE AND CONNECTOR TYPES, INSTALLATION METHODS AND ROUTING, SEPARATION DISTANCE FROM ADJACENT SERVICES, MAXIMUM NUMBER OF DISCONNECT POINTS AND MAXIMUM OVERALL CABLE RUN LENGTHS REQUIRED TO MEET THE DESIGN INTENT AND MANUFACTURER'S PERFORMANCE CRITERIA. THE CABLING SYSTEM SHALL BE TESTED AND VERIFIED.

2. NON-CONTIGUOUS CABLE SUPPORT MECHANISMS SUCH AS HANGERS, RINGS, AND HOOKS SHALL NOT BE SPACED FARTHER THAN FOUR (4) FEET APART. ALL MANUFACTURED RACEWAYS USED FOR CABLES SHALL BE INSTALLED ACCORDING TO THE RACEWAY MANUFACTURER'S SPECIFICATIONS

3. THE CONTRACTOR SHALL MAINTAIN, OR WHERE NOT ALREADY EXISTING, PROVIDE THROUGH PENETRATION FIRE STOP SYSTEMS TO PREVENT THE SPREAD OF FIRE THROUGH OPENINGS MADE IN FIRE-RATED WALLS OR FLOORS TO ACCOMMODATE PENETRATING ITEMS SUCH AS CONDUIT, CABLES OR OTHER PATHWAY. FIRE STOP SHALL RESTORE FLOOR AND WALL TO THE ORIGINAL FIRE RATED INTEGRITY. THE FIRE STOP SYSTEMS AND PRODUCTS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH THE PROCEDURES OF U.L. AND MATERIAL SHALL BE U.L. CLASSIFIED AS MATERIALS FOR USE IN THROUGH-PENETRATION FIRE STOPS.

C. LABELS / WIRE MARKERS

1. ALL CABLES SHALL BE PERMANENTLY IDENTIFIED AT EACH END BY MACHINE PRINTED CABLE MARKERS.

D. VIDEO DISPLAYS

1. VIDEO SETTINGS SHOULD BE ADJUSTED ON ALL FLAT PANEL DISPLAYS TO OPTIMIZE COLOR AND CONTRAST. SETTINGS SHOULD BE IDENTICAL BETWEEN MULTIPLE DISPLAYS WITHIN THE SAME ROOM, AREA, OR ROOM TYPE. ANY DYNAMIC CONTRAST MODES WITHIN FLAT PANEL DISPLAYS SHALL BE DISABLED.

2. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL WORK IN CLOSE COORDINATION WITH THE OWNER TO DETERMINE THE OPTIMAL LOCATIONS FOR ALL VIDEO DISPLAYS TO ENSURE THAT THE VIDEO DISPLAY POSITIONS MEET THE REQUIREMENTS OF THE OWNER FOR THE APPROPRIATE VIEWING AREA.

E. FURNITURE

1. THE CONTRACTOR SHALL ENSURE THAT EQUIPMENT OR MOUNTING HARDWARE IS COMPATIBLE WITH AND SUITABLE FOR INSTALLATION IN FURNITURE SPECIFIED BY THE ARCHITECT, CONSULTANT, OR FURNITURE SUPPLIER.

2. THE CONTRACTOR SHALL ENSURE THAT DIMENSIONS AND STRUCTURAL SUPPORTS ARE ADEQUATE FOR THE INSTALLATION OF SPECIFIED EQUIPMENT.

3. THE CONTRACTOR SHALL CONFIRM THAT THE FURNITURE ACCOMMODATES THE AUDIOVISUAL EQUIPMENTS' ENVIRONMENTAL AND ELECTRICAL OPERATING PARAMETERS.

F. DEVICE CONFIGURATION

1. THE CONTRACTOR SHALL PROVIDE CONFIGURATION AS REQUIRED TO ENSURE FULLY FUNCTIONING SYSTEM(S).

2. DEVICE CONFIGURATION SHALL FOLLOW OWNER'S STANDARDS WHERE AVAILABLE.

G. TESTING

1. THE CONTRACTOR SHALL INSTALL, CONFIGURE, ADJUST, PROGRAM, AND CALIBRATE ALL COMPONENTS IN ORDER TO OPTIMIZE THE PERFORMANCE OF ALL INDIVIDUAL SUBSYSTEMS AND THE SYSTEM AS A WHOLE. THE CONTRACTOR SHALL VERIFY EACH ITEM OF EQUIPMENT IS FUNCTIONING TO MEET THE DESIGN INTENT AND MANUFACTURER'S PERFORMANCE CRITERIA.

2. UPON COMPLETION OF INSTALLATION, THE CONTRACTOR SHALL TEST EACH FUNCTION OF EACH REMOTE CONTROL TO VERIFY PROPER OPERATION AND THAT EACH SWITCH AND INDICATOR OPERATES AS INTENDED.

H. SYSTEM PERFORMANCE VERIFICATION

1. THE CONTRACTOR SHALL DEMONSTRATE THE PERFORMANCE AND OPERATION OF THE SYSTEM TO THE OWNER'S REPRESENTATIVE FOLLOWING FINAL TESTING.

2. THE CONTRACTOR'S REPRESENTATIVE SHALL BE THOROUGHLY FAMILIAR WITH THE DETAILS OF THE SYSTEM AND FUNCTIONALITY.

3. FOLLOWING THE DEMONSTRATION OF THE SYSTEMS' PERFORMANCE, THE OWNER'S REPRESENTATIVE WILL ISSUE A PUNCH LIST REPORT TO THE CONTRACTOR, IDENTIFYING OMISSIONS, ADJUSTMENTS, AND CORRECTIONS TO THE WORK NECESSARY TO MEET THE REQUIREMENTS OF THE SPECIFICATION.

4. THE PROJECT SHALL BE DEEMED SUBSTANTIALLY COMPLETE WHEN THE OWNER CAN UTILIZE THE SYSTEMS FOR THEIR INTENDED USE.

I. TRAINING

1. THE CONTRACTOR SHALL PROVIDE A TOTAL OF (2) HOURS OF ON-SITE TRAINING FOR THE OWNER'S STAFF AT A TIME THAT IS MUTUALLY AGREEABLE FOR THE OWNER AND CONTRACTOR. TOPICS TO BE ADDRESSED IN THE TRAINING INCLUDE THE GENERAL CONFIGURATION OF THE SYSTEM, BASIC FUNCTIONALITY, CORRECT OPERATION PROCEDURES, ROUTINE MAINTENANCE AND UPKEEP.

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SCHEMATIC DESIGN		01/18/2021

SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

SHEET TITLE

DIVISION 27 - AUDIOVISUAL SPECIFICATIONS

PROJECT NUMBER 12808

CD 1.T.003

SHEET NUMBER

Author

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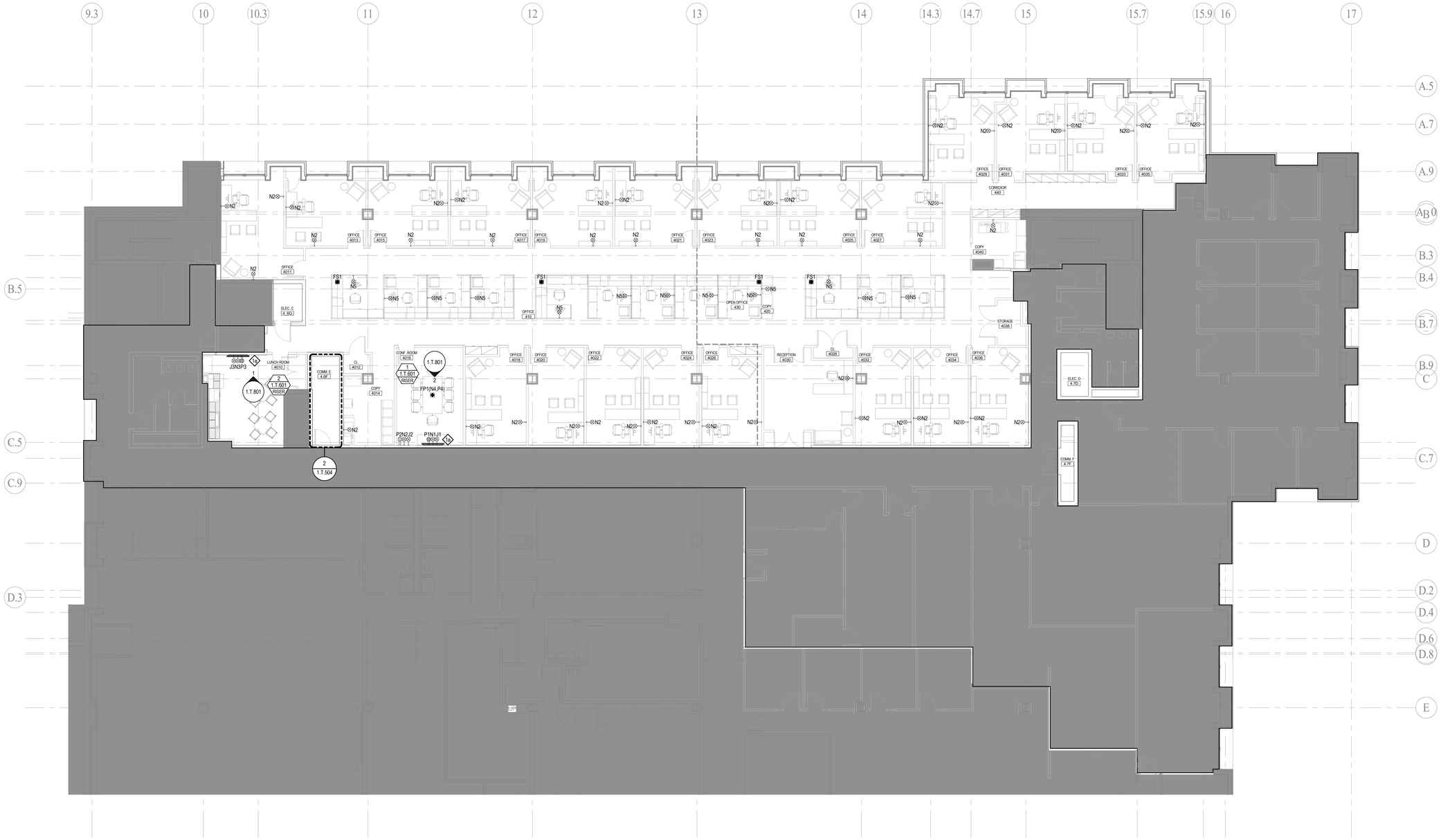

1 / 1.T.204 TECHNOLOGY INFRASTRUCTURE FLOOR PLAN - LEVEL 4
1/8" = 1'-0"

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE FLOOR PLAN - LEVEL 4

PROJECT NUMBER 12808

CD

SHEET NUMBER 1.T.204

Author

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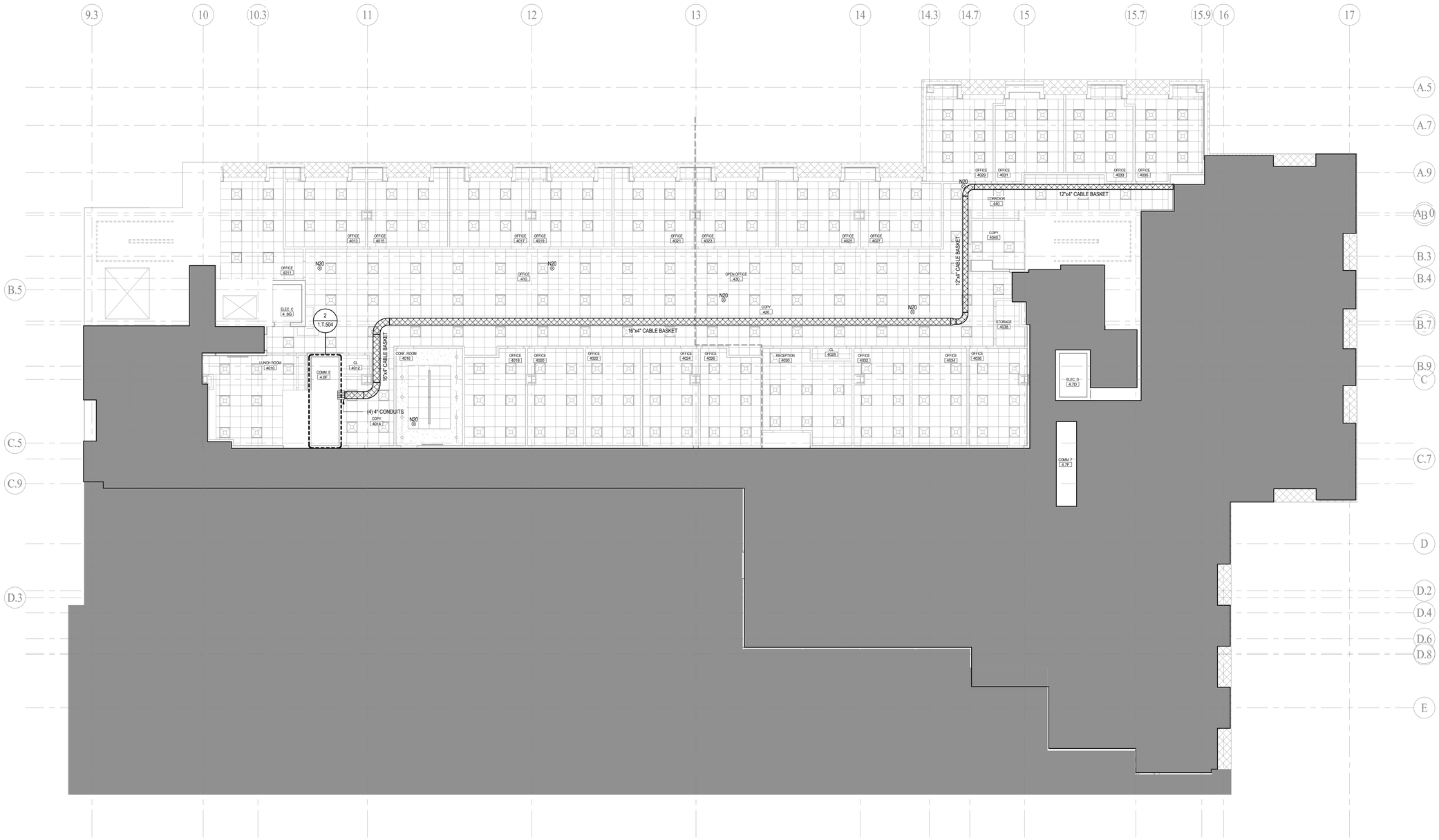

1 / 1.T.304 TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLAN - LEVEL 4
1/8" = 1'-0"

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SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN

NORTH

PROJECT AREA

SHEET TITLE

TECHNOLOGY INFRASTRUCTURE REFLECTED CEILING PLAN - LEVEL 4

12808

PROJECT NUMBER

CD

1.T.304

SHEET NUMBER

Author

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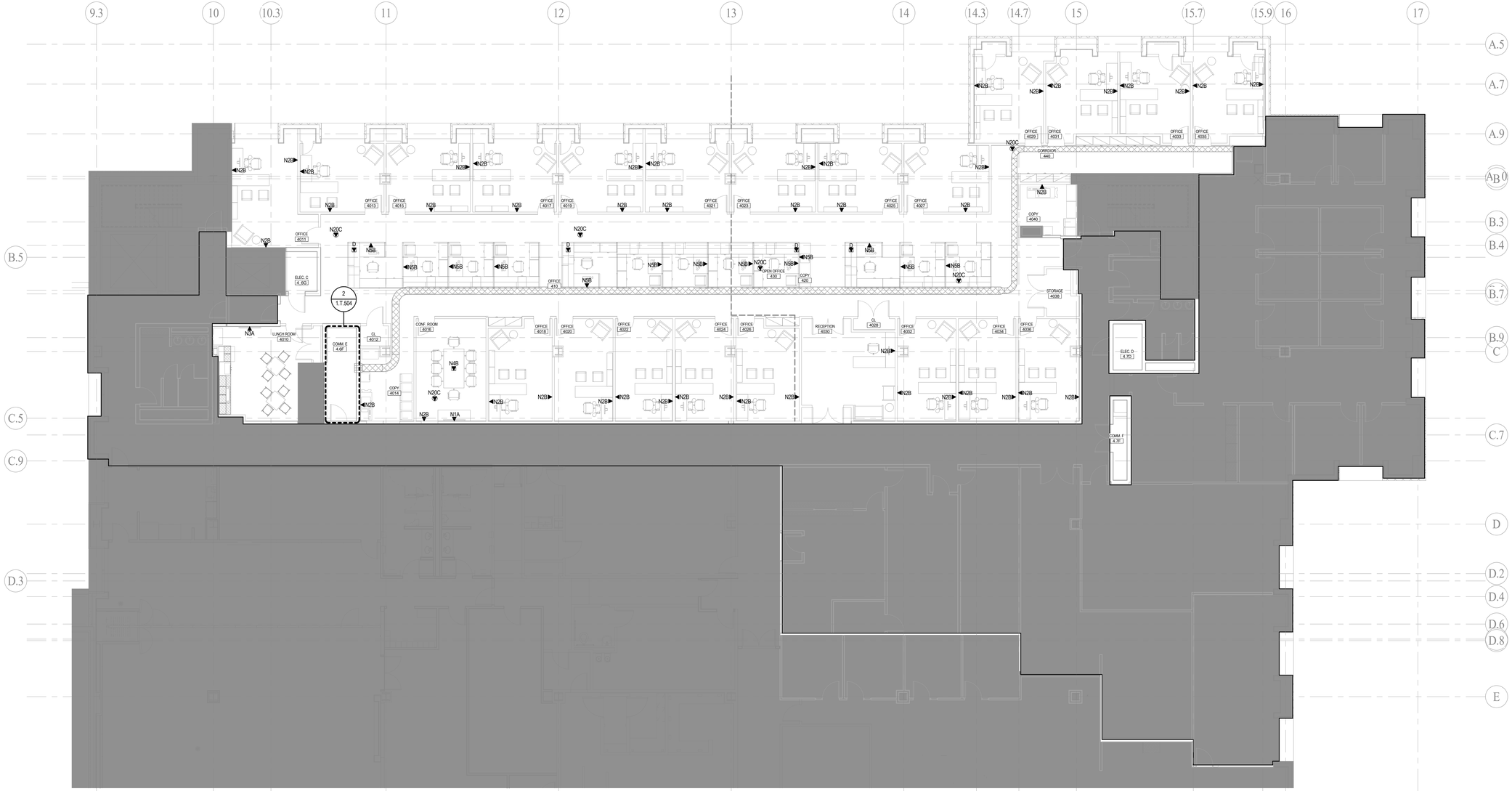
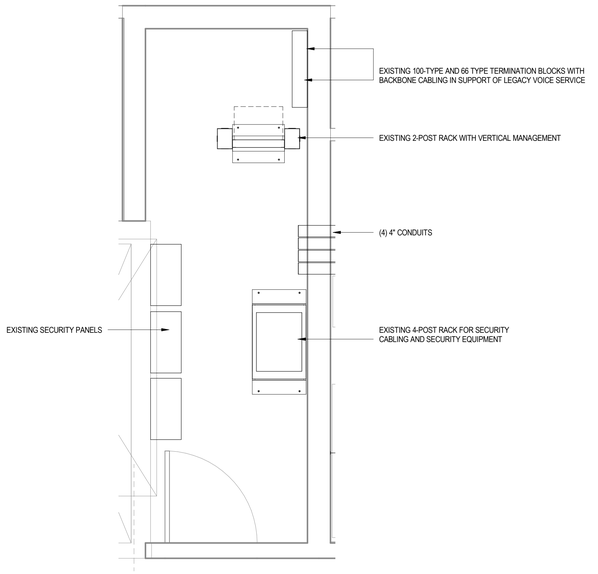


1 / 1.T.504 TELECOM PLAN, ENLARGED PLANS AND ELEVATIONS - LEVEL 4
1/8" = 1'-0"



2 / 1.T.504 COMM 4-E
1/2" = 1'-0"

DEMO NOTES:

1. CONTRACTOR SHALL INDENTIFY AND PROTECT ANY CABLING SERVING LOCATIONS OUTSIDE THE EXTENTS OF THIS PROJECT TO ENSURE CABLING AND SYSTEMS REMAIN OPERATIONAL FOR OTHER AREAS OF THE BUILDING.
2. CONTRACTOR SHALL DEMO AND REMOVE ALL EXISTING HORIZONTAL CABLING WITHIN THE PROJECT EXTENTS. CABLING SHALL BE REMOVED TO THE RACK LOCATION AND NOT BE ABANDONED IN PLACE. UNUSED RACK MOUNTED PATCH PANELS SHALL BE DEMOLISHED AND REMOVED.

NEW WORK NOTES:

1. CONTRACTOR SHALL REUSE EXISTING 2-POST RACK AND PROVIDE NEW FIBER TERMINATION PANELS AND NEW HORIZONTAL CATEGORY 6A PATCH PANELS PER THE SPECIFICATIONS TO SUPPORT NEW CABLING INSTALLED AS PART OF THIS PROJECT.
2. CONTRACTOR SHALL CONFIRM FINAL RACK ELEVATIONS WITH OWNER.
3. CONTRACTOR SHALL INSTALL OFCI NETWORK SWITCHES IN EXISTING 2-POST RACK.

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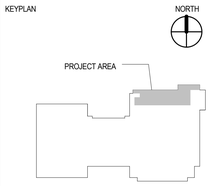
SEALS AND SIGNATURES

NOT FOR CONSTRUCTION

KEYPLAN



SHEET TITLE

TELECOM PLAN, ENLARGED PLANS AND ELEVATIONS - LEVEL 4

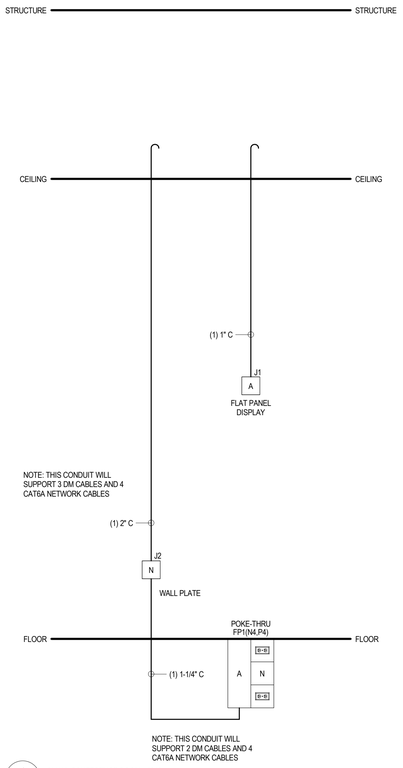
PROJECT NUMBER 12808

CD

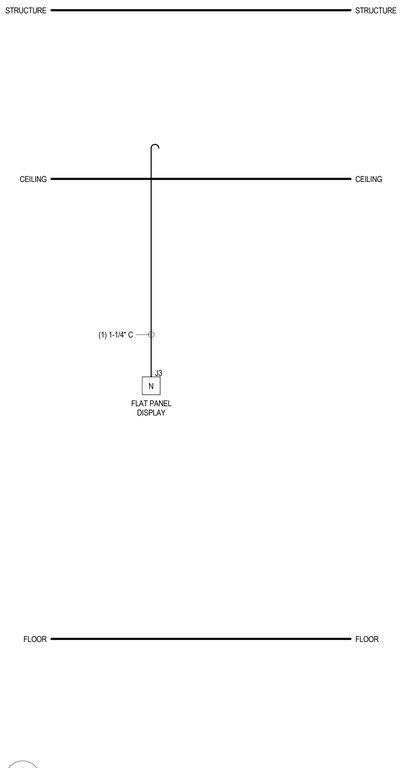
SHEET NUMBER 1.T.504

Author

Plot Date: 4/12/2021 5:03:27 PM



1 / 1.T.601 SMALL CONFERENCE ROOM - 4016
NTS



2 / 1.T.601 LUNCH ROOM 4010
NTS

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SEALS AND SIGNATURES

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SHEET TITLE

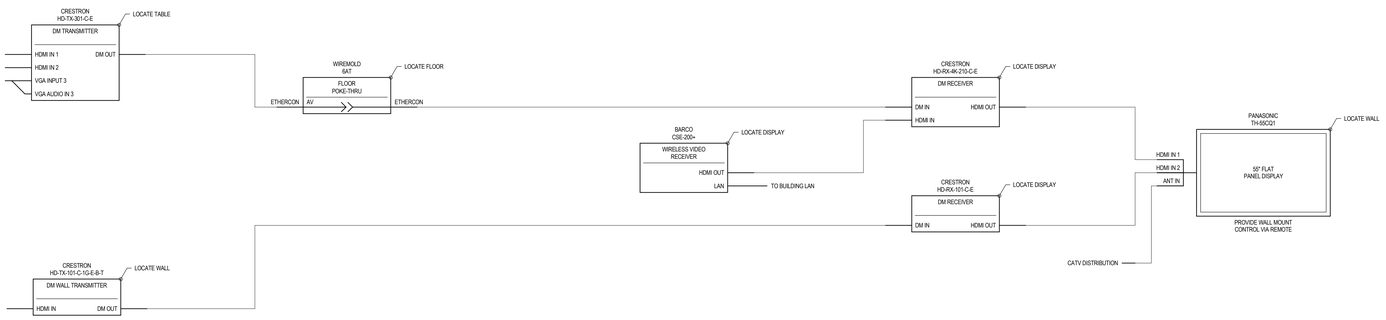
AUDIOVISUAL INFRASTRUCTURE ROOM RISERS

PROJECT NUMBER 12808

CD 1.T.601

SHEET NUMBER

Plot Date: 4/12/2021 5:03:27 PM Author



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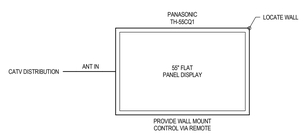
AVS01
CONFERENCE ROOM 4016
SCALE: NTS



2
AVS01
LUNCH ROOM 4010
SCALE: NTS

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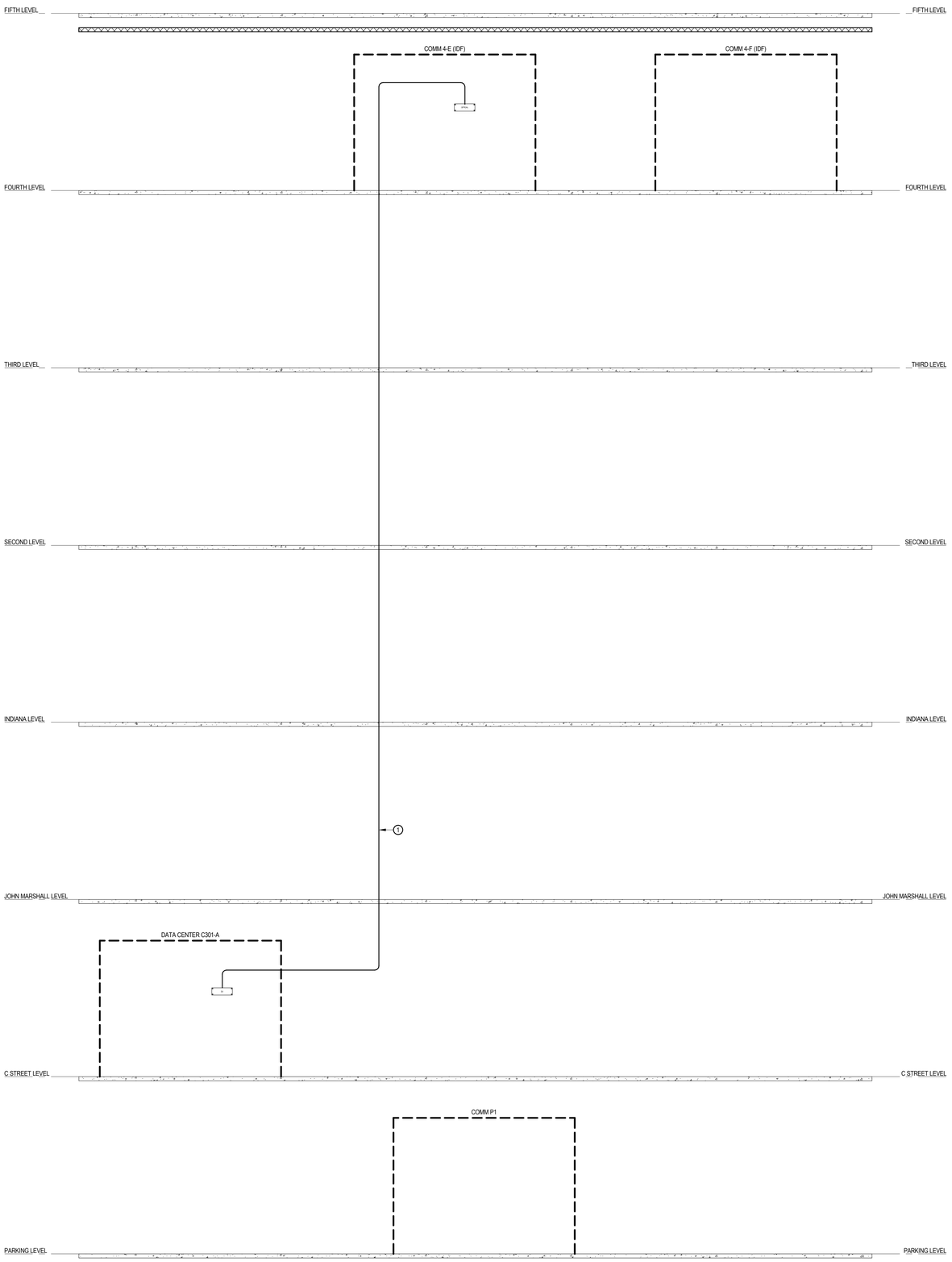
SHEET TITLE
AUDIOVISUAL SYSTEM DRAWINGS

PROJECT NUMBER
12808

CD 1.T.602
SHEET NUMBER



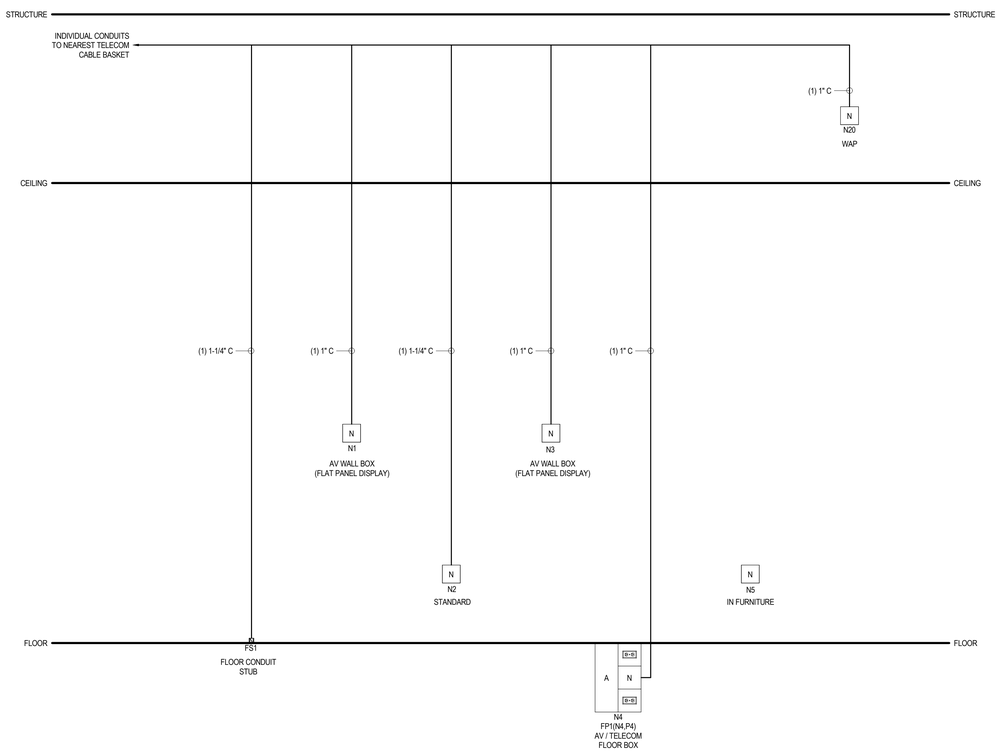
2 / 1.T.701 TELECOM BUILDING RISER
NTS

BUILDING RISER CABLE SCHEDULE

DESIGNATION	CABLE TYPE	CABLE CONFIGURATION
1	OPTICAL	12-STRAND OS2 FOSM, ARMORED, PLENUM RATED & 24-STRAND OM4 FOMM, ARMORED, PLENUM RATED

BUILDING RISER GENERAL NOTES

1. ALL CABLE BASKET AND CONDUIT FOR TELECOM SHALL BE FURNISHED AND INSTALLED BY DIVISION 26.
2. TELECOM BONDING BACKBONE (TBB) CONDUCTORS SHALL BE AS SIZED BY THE ELECTRICAL ENGINEER AND SHALL BE FURNISHED AND INSTALLED BY DIVISION 26.
3. 6 AWG TGB CONDUCTORS SHALL BE FURNISHED AND INSTALLED BY DIVISION 27. INDIVIDUAL "HOME" RUNS SHALL BE MADE FROM THE TMGB/TGB TO EACH OPEN FRAME EQUIPMENT RACK. RACKS SHALL NOT BE DAISY CHAINED.
4. CABLE RUNWAY WITHIN MDF AND TELECOM ROOM SPACES SHALL BE FURNISHED AND INSTALL BY DIVISION 27. 6 AWG GROUND CONDUCTORS SHALL BE FURNISHED AND INSTALLED BY DIVISION 27. EACH CABLE RUNWAY ASSEMBLY SHALL HAVE A MINIMUM OF ONE "HOME" RUN BACK TO THE TGB. ALL CONTIGUOUS CABLE RUNWAY SEGMENTS SHALL BE BONDED TOGETHER USING 6 AWG STRAPS AND GROUNDED ACCORDING TO SPECIFICATIONS.



1 / 1.T.701 TELECOM TYPICAL CONDUIT RISER
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SHEET TITLE
TELECOM BUILDING AND TYPICAL CONDUIT RISER

PROJECT NUMBER 12808

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SHEET NUMBER

Author

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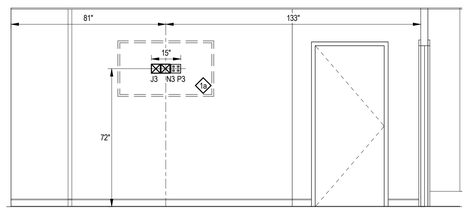
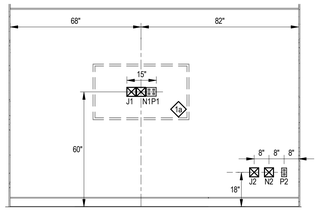


1
1.T.801
LUNCH ROOM 4010
3/8" = 1'-0"



2
1.T.801
CONF. ROOM 4016
3/8" = 1'-0"

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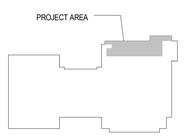
KEYPLAN

NORTH



SHEET TITLE

TECHNOLOGY
INFRASTRUCTURE
ELEVATIONS

PROJECT NUMBER
12808

CD

SHEET NUMBER
1.T.801

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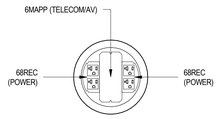
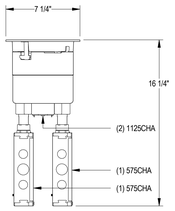
Author



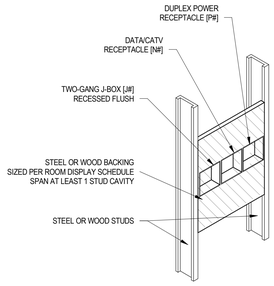
TOP CONFIGURATION



NOTES:

1. NO DEVICE PLATES ARE INCLUDED WITH THE POKE-THRU. DEVICE PLATES SHALL BE ORDERED AS NECESSARY TO MEET THE TOP CONFIGURATION REQUIREMENTS.
2. BOTTOM FEED MOUNT ASSEMBLIES SHOWN ARE INCLUDED. ADDITIONAL BOTTOM FEED MOUNT ASSEMBLIES SHALL BE ORDERED TO MEET THE CONDUIT REQUIREMENTS FROM THE AUDIOVISUAL INFRASTRUCTURE ROOM RISERS AND THE TELECOM TYPICAL CONDUIT RISER.

1 / 1.T.901 WIREMOLD-LEGRAND 6AT (6ATC2 / 6AT2) 6" POKE-THRU
2" = 1'-0"



NOTES:

1. BACKING TO SPAN AT LEAST 1 STUD CAVITY.
2. SEE ARCHITECTURAL DRAWINGS FOR STUD SIZE AND TYPE.
3. VERIFY LOCATIONS OF BACKING PLATES WITH TECHNOLOGY DRAWINGS.

2 / 1.T.901 FLAT PANEL DISPLAY BACKING
1" = 1'-0"

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SHEET TITLE
TECHNOLOGY INFRASTRUCTURE DETAILS

PROJECT NUMBER 12808

CD 1.T.901
SHEET NUMBER

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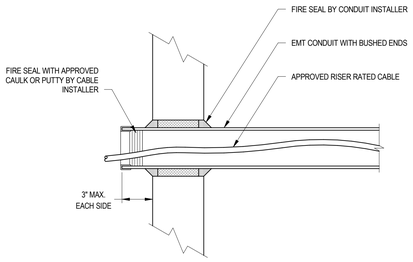
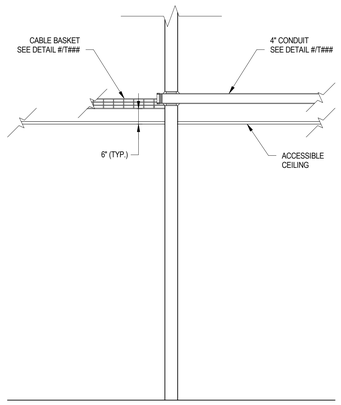
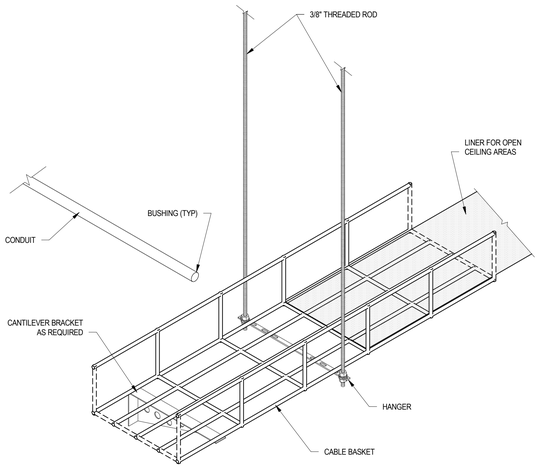


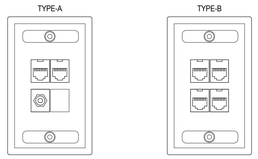
1 / 1.T.902 CONDUIT SECTION - THRU FIRE RATED WALL
2" = 1'-0"



2 / 1.T.902 THRU WALL SECTION (CABLE BASKET / CONDUIT)
1/2" = 1'-0"



3 / 1.T.902 SUPPORT - SINGLE CABLE BASKET
1" = 1'-0"



4 / 1.T.902 TELECOM FACEPLATES
6" = 1'-0"

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SHEET TITLE
TELECOM DETAILS

PROJECT NUMBER 12808

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SHEET NUMBER

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