ISABELLA COUNTY
ADMINISTRATION BUILDING
INTERIOR RENOVATION
200 N. MAIN STREET
MT. PLEASANT, MI 48858

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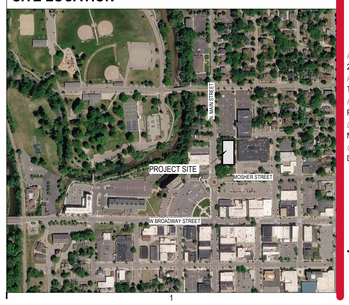
T602 ICT NETWORK DATA SCHEDULES AND DIAGRAMS
T603 ICT SECURITY SYSTEMS SCHEDULES AND DIAGRAMS

SITE LOCATION



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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARRIOS
CHECKED BY
D. SNYDER

TITLE DRAWING
TD001

24.2.002
10/13/2026 3:09:45 PM Autodesk Docs://23000001 - Isabella County Admin Building/23000001.CAB-ARCH.rvt
1 = 1'-0"
TD001 - TITLE DRAWING
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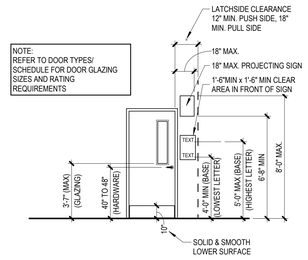
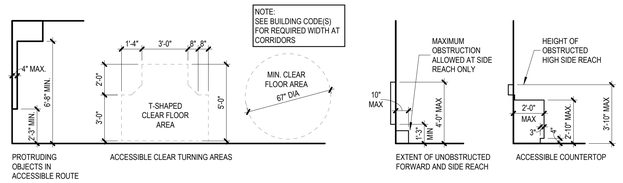
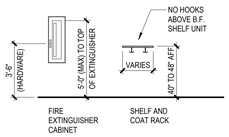


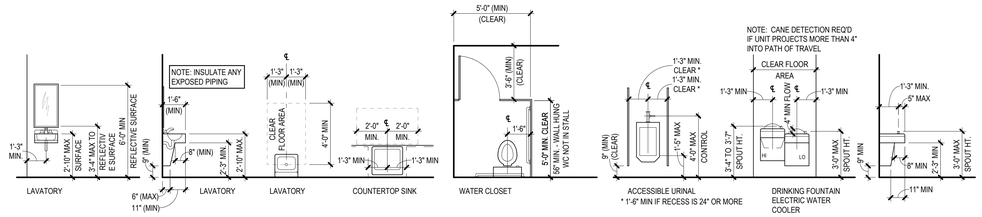
A5 DOORWAY FEATURES
NOT TO SCALE



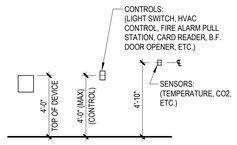
A4 ACCESSIBLE CLEARANCES
NOT TO SCALE



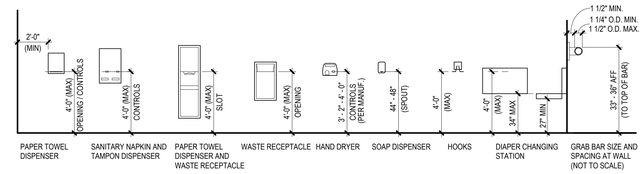
B6 MISC. ACCESSORIES
NOT TO SCALE



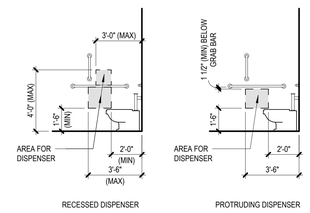
B5 PLUMBING FIXTURES
NOT TO SCALE



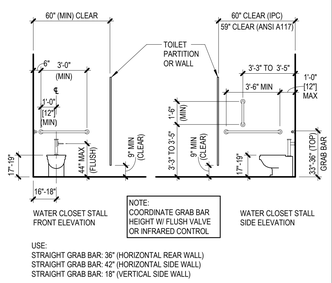
C6 MISCELLANEOUS DEVICES
NOT TO SCALE



C5 TOILET ROOM ACCESSORIES
NOT TO SCALE



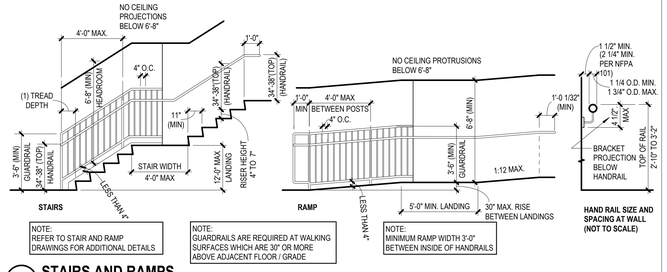
C3 TOILET STALL ACCESSORIES
NOT TO SCALE



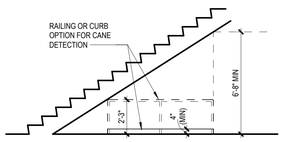
NOTE:
COORDINATE GRAB BAR HEIGHT W/ FLUSH VALVE OR INFRARED CONTROL

USE:
STRAIGHT GRAB BAR: 36" (HORIZONTAL REAR WALL)
STRAIGHT GRAB BAR: 42" (HORIZONTAL SIDE WALL)
STRAIGHT GRAB BAR: 18" (VERTICAL SIDE WALL)

D3 FLOOR MOUNTED WATER CLOSET
NOT TO SCALE



E3 STAIRS AND RAMPS
NOT TO SCALE



E1 REDUCED VERTICAL CLEARANCE
1/4" = 1'-0"

PROGRESSIVE CO GENERAL SYMBOLOGY

DRAWING TITLES

PLAN TITLE

PLAN NORTH
1 — DRAWING TITLE
1/8" = 1'-0" — DRAWING SCALE

PLAN CALLOUT / SECTION / ELEVATION TITLE

DRAWING NUMBER
A5 — DRAWING TITLE
1/8" = 1'-0" — DRAWING SCALE

REVISION SYMBOLS

PREVIOUS REVISION NUMBER (CLOUD HIDDEN) — #
ACTIVE REVISION NUMBER (MAY NOT MATCH BULLETIN #) — #
CLOUDED AREA OF REVISION

LOCATION SYMBOLS

BUILDING SECTION
DIRECTION OF SECTION
DRAWING NUMBER — A#
SHEET NUMBER — A###
A#
A###

WALL SECTION
DIRECTION OF SECTION
DRAWING NUMBER — A#
SHEET NUMBER — A###
END OF SECTION INDICATOR

DETAIL SECTION
DRAWING NUMBER — A#
SHEET NUMBER — A###
DIRECTION OF SECTION, END OF SECTION INDICATOR

EXTERIOR ELEVATION
DIRECTION OF ELEVATION
A# / A###
SHEET NUMBER
DETAIL NUMBER

INTERIOR ELEVATION
A#
DETAIL NUMBER(S)
A# A### A#
A#
SHEET NUMBER
DIRECTION OF ELEVATION

CALLOUT REFERENCE
DRAWING NUMBER — A#
SHEET NUMBER — A###
REF — REFERENCE (SIM, OPP)
DRAWING EXTENTS

MATCHLINE
MATCHLINE
MATCHLINE SEE A# / A###
DRAWING REFERENCE FOR CONTINUATION

3D VIEW REFERENCE
A# / A###
DRAWING NUMBER
SHEET NUMBER

DATUM SYMBOLS

NEW COLUMN GRID — #
EXISTING COLUMN GRID — #
LEVEL — NAME, FLOOR LEVEL, 100' - 0", HEIGHT
SPOT ELEVATION — 100' - 0"

TAGS

ROOM TAG
Room name [101A] 150 SF — NAME, NUMBER, AREA
ROOM TAG - INTERIOR ELEVATION
Name - 101
CABINET TAG
100, 24, 34 — CABINET TYPE, DEPTH IN INCHES, HEIGHT IN INCHES, WIDTH IN INCHES

DOOR TAG — 101 — MARK
RESTROOM ACCESSORY TAG — A1 — MARK
WINDOW TAG — A — MARK
CEILING TAG
NOTE — NOTE (AS REQUIRED)
8'-0" — HEIGHT AFF

SYMBOLS

BREAK LINE

PROGRESSIVE CO GENERAL ABBREVIATIONS

A/C	AIR CONDITIONING
A/V	AUDIO / VIDEO, AUDIO / VISUAL
ACC	ACCESSIBLE, ACCESSIBILITY
ACM	ALUMINUM COMPOSITE PANELS
ACP	ACOUSTICAL CEILING PANELS
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
ARCH	ARCHITECT, ARCHITECTURAL
AUTO	AUTOMATIC
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BO	BOTTOM OF
BRG	BEARING
CAB	CABINET, CABINETRY
CCTV	CLOSED-CIRCUIT TELEVISION
CF/CI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED / OWNER INSTALLED
CFMF	COLD FORMED METAL FRAMING
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR, CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUATION
COORD	COORDINATE
CPT	CARPET
CR	CARD READER
CSMT	CASEMENT
CTR	CENTER
CTV	CABLE TELEVISION
D	DEEP, DEPTH
DEFS	DIRECT-APPLIED EXTERIOR FINISH SYSTEM
DEG	DEGREE(S)
DEMO	DEMOLISH, DEMOLITION
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION, DIMENSIONAL
DIST	DISTANCE
DIV	DIVISION, DIVIDE
DN	DOWN
DR	DOOR, DRIVE
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING(S)
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENG	ENGINEER
EO	EDGE OF
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE(D)
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISHED FLOOR ELEVATION
FO	FACE OF
FRT	FIRE RETARDANT TREATED
FT, '	FOOT, FEET
FTG	FOOTING
FURN	FURNITURE
FV	FIELD VERIFY
GA	GAUGE, GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR, GENERAL CONTRACT
GYP	GYPSUM
HD	HEAVY DUTY
HDW	HARDWARE
HM	HOLLOW METAL
HORZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING / VENTILATION / AIR CONDITIONING
ID	INSIDE DIAMETER
IMP	INSULATED METAL PANEL
IN, "	INCH
INS	INSULATE, INSULATION
INT	INTERIOR
J-BOX	JUNCTION BOX
LAV	LAVATORY
LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
LH	LEFT HAND, LEFT HANDED
LT	LITE, LIGHT
LVL	LAMINATED VENEER LUMER
LVT	LUXURY VINYL TILE
MATL	MATERIAL(S)
MAX	MAXIMUM
MCM	METAL COMPOSITE MATERIAL
MECH	MECHANICAL
MFR	MANUFACTURER, MANUFACTURED
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NEC	NATIONAL ELECTRIC CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OHD	OVERHEAD DOOR
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
PERF	PERFORATE, PERFORATED
PERP	PERPENDICULAR
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PNT	PAINT, PAINTED
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
QT	QUARRY TILE
QTY	QUANTITY
R	RISER
RD	ROOF DRAIN, ROAD
REF	REFRIGERATOR
REQ	REQUIRED, REQUIREMENT
REV	REVISE, REVISION
RH	RIGHT HAND, RIGHT HANDED
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SH	SHOWER
SIM	SIMILAR
SIP	STRUCTURAL INSULATED PANEL
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SQ	SQUARE
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STOR	STORAGE
STR	STRUCTURAL
T	TREAD
T&G	TONGUE AND GROOVED
TEMP	TEMPORARY
THK	THICK, THICKNESS
TO	TOP OF
TYP	TYPICAL
UC	UNDER COUNTER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL, VERTICALLY
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WP	WORK POINT, WORKING POINT
WT	WEIGHT

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ISABELLA COUNTY ADMINISTRATION BUILDING INTERIOR RENOVATION

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARRIOS
CHECKED BY
D. SNYDER

PROJECT INFORMATION AND TYPICAL DETAILS

G001

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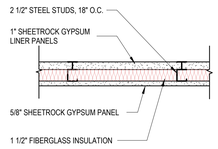
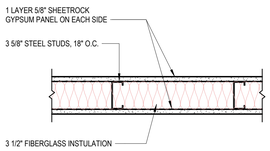
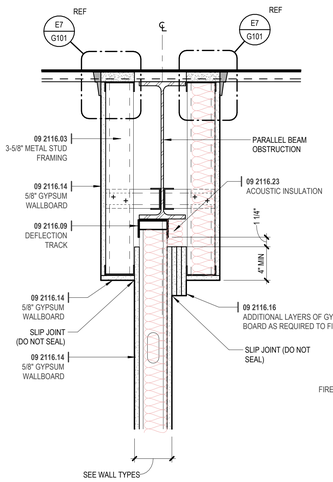
UL WALL & CEILING SYSTEMS



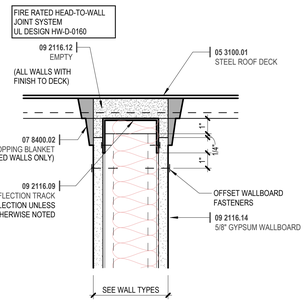
A7 UL U415 - SHAFT ENCLOSURE
1 1/2" = 1'-0"



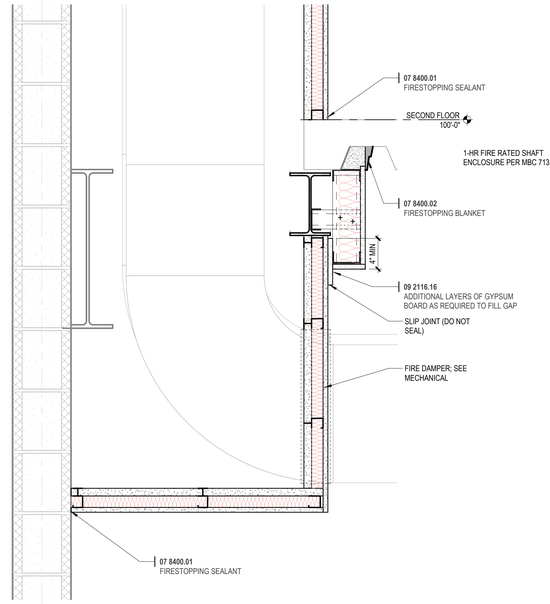
B7 UL U419 - 1 HR FIRE RATED PARTITION
1 1/2" = 1'-0"



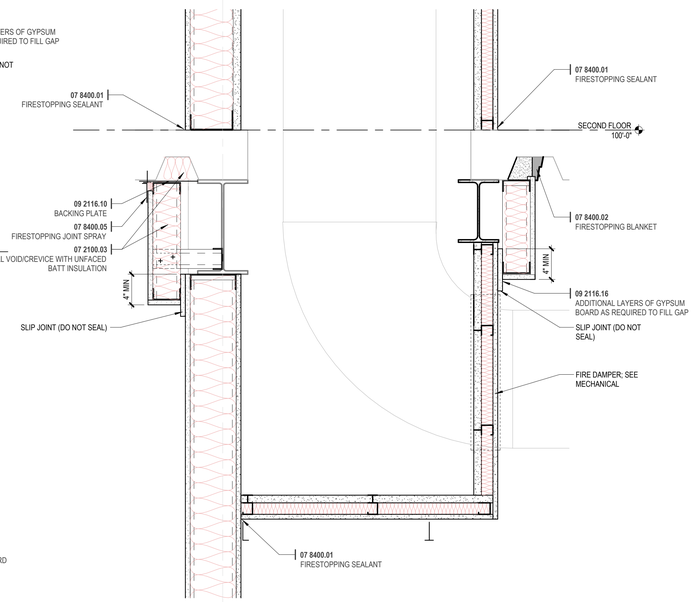
C7 TOP OF PARTITION AT BEAM
1 1/2" = 1'-0"



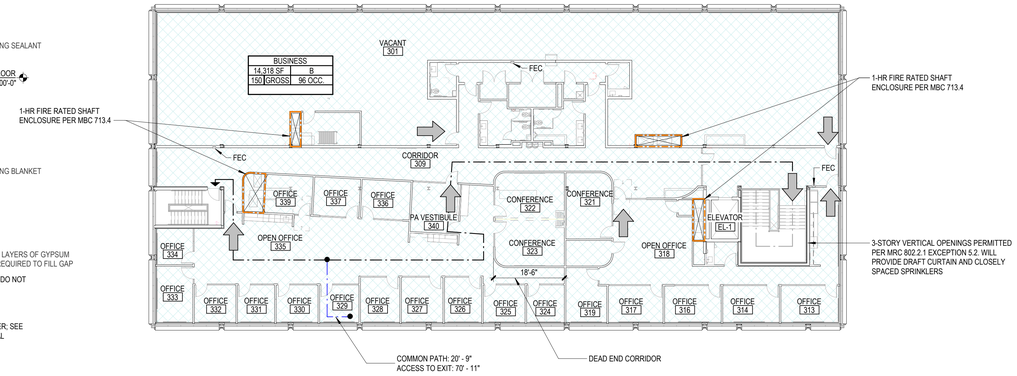
E7 HEAD OF WALL DETAIL
3" = 1'-0"



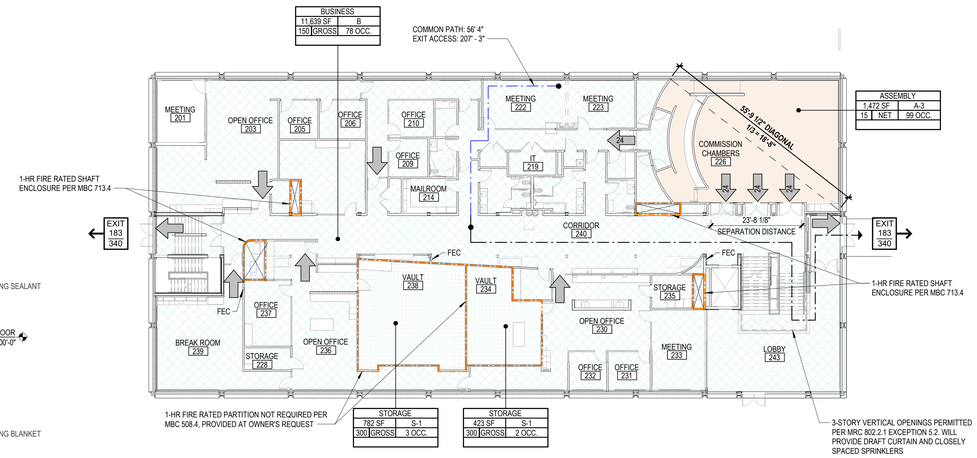
B6 HORIZONTAL SHAFTWALL
1 1/2" = 1'-0"



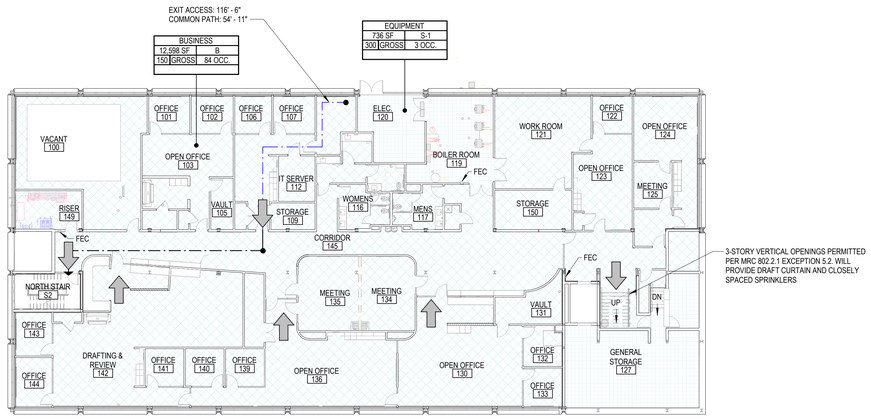
E6 HORIZONTAL SHAFTWALL
1 1/2" = 1'-0"



THIRD FLOOR CODE PLAN
1/16" = 1'-0"



SECOND FLOOR CODE PLAN
1/16" = 1'-0"



FIRST FLOOR CODE PLAN
1/16" = 1'-0"

CODE SUMMARY

A. APPLICABLE CODES:
1. MICHIGAN BUILDING CODE (MBC) 2021
   A. MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS (MRCEB) 2021
   B. MICHIGAN BARRIER FREE DESIGN LAW P.A. 1 OF 1966 AND 2017 ICC/ANSI A117.1
   C. MICHIGAN MECHANICAL CODE (MMC) 2021
   D. MICHIGAN PLUMBING CODE (MPC) 2021
   E. MICHIGAN ELECTRICAL CODE 2023 (MICHIGAN ELECTRICAL CODE PART 8 INCORPORATING NATIONAL ELECTRICAL CODE 2023)
2. *NFPA 101 LIFE SAFETY CODE (LSC) 2012*

A. PROPOSED BUILDING DATA:
1. *CLASSIFICATION OF WORK: ALTERATION LEVEL 3 (MRCEB 603.1)*
2. *CLASSIFICATION OF WORK: NO CHANGE OF OCCUPANCY (MRCEB 605.1)*
3. *TOTAL AREA OF EXISTING BUILDING: 43,771 SF*
4. *TOTAL WORK AREA: 42,805 SF (= 50%)*
5. *ALTERATION WORK AREA PER FLOOR:*
   A. FIRST FLOOR: 14,318/14,591 SF
   B. SECOND FLOOR: 14,318/14,591 SF
   C. BASEMENT: 14,169/14,591 SF
6. EXISTING PRIMARY OCCUPANCY: USE GROUP *B - BUSINESS (NO CHANGE)*
7. NON-SEPARATED OCCUPANCIES:
   A. *USE GROUP S-1 - STORAGE (MBC 311.2)*
8. ACCESSORY OCCUPANCIES:
   A. USE GROUP A-3 - ASSEMBLY (MBC 508.2)
9. CONSTRUCTION TYPE: *IIB (NO CHANGE)*
10. FIRE AND SMOKE PROTECTION FEATURES:
   A. NEW AUTOMATIC SPRINKLER SYSTEM: *FULLY SPRINKLERED*
   B. FIRE ALARM AND DETECTION: *REQUIRED*
   C. FIRE EXTINGUISHERS: REQUIRED (MBC 906.1, NO. 1)
11. EXISTING BUILDING HEIGHT / STORIES: 27'-6 FEET / 3 STORIES (NO CHANGE)

D. ADDITIONAL CONSTRUCTION REQUIREMENTS FOR ALTERATION:
1. *3-STORY VERTICAL OPENINGS PERMITTED: 0-HR. (* MRC 802.2.1 EXCEPTION 5.2*)*

E. OCCUPANT LOAD FOR EGRESS PURPOSES (MBC T-1004.1.2): *365 TOTAL*
1. BUSINESS: 150 GSF/OCC
2. ASSEMBLY: 15 NSF/OCC. (TABLES AND CHAIRS)
3. ACCESSORY STORAGE/ EQUIP: 300 GSF/OCC

F. MEANS OF EGRESS REQUIREMENTS WITHIN WORK AREA:
1. MAX TRAVEL DISTANCE: 300 FT. (MBC T-1017.2)
2. MAX COMMON PATH OF TRAVEL: 100 FT. (MBC T-1006.2.1)
3. EGRESS WIDTH (PER OCCUPANT):
   A. STAIR: *0.3" (MBC 1005.3)*
   B. OTHER EGRESS COMPONENTS - DOORS: *0.15" (MBC 1005.3.2)*
4. MIN CORRIDOR WIDTHS: 44" (MBC T-1020.3)
5. MAX DEAD END CORRIDOR: 50 FT. (MBC 1020.5, EX.2)
6. REMOTENESS OF EXITS: 1/3 DIAGONAL (MBC 1007.1.1, EX.2)

G. ENERGY CODE COMPLIANCE (C401.2): *IECC 2021 or ASHRAE 90.1 2019*
1. CLIMATE ZONE: 6
2. VESTIBULE REQUIRED: YES (MUEC C402.5.9)
3. COMPLIANCE PATH: *PRESCRIPTIVE*
4. *ONLY NEW CONSTRUCTION SHALL COMPLY WITH THE IECC PER MRC 907.1*

H. VERTICAL CIRCULATION (ASME A17.1):
1. ELEVATOR AND HOISTWAY ARE EXISTING TO REMAIN
2. EXISTING STAIRS TO REMAIN; PROVIDING NEW HANDRAILS/GUARDRAILS TO MEET CODE

J. PLUMBING FIXTURE REQUIREMENTS (MPC T-403.1):
1. TOTAL OCCUPANT LOAD FOR PLUMBING FIXTURES: 365 (183M & 183W)
2. WATER CLOSETS REQUIRED: 5 EACH SEX (1/25 FOR 1ST 50, 1/50 REMAINDER)
   A. PROVIDED: 6 EACH SEX, 3 GENDER NEUTRAL
3. LAVS REQUIRED: *4 EACH SEX (1/40 FOR 1ST 80, REMAINDER 1/80)*
   A. PROVIDED: 6 EACH SEX
4. DRINKING FOUNTAINS REQUIRED: 1 (1/100); PROVIDED: 3
   A. HI AND LOW REQUIRED (410.3.1):
   B. BOTTLE FILLER SUBSTITUTION: 50% MAX OF REQUIRED FIXTURES OVER 2
5. SERVICE SINK(S) REQUIRED: 1; PROVIDED: 3
6. ADDITIONAL PLUMBING REQUIREMENTS:
   A. MAX TRAVEL DISTANCE TO TOILET ROOMS: 1 STORY, 500 FT. (MPC 403.3.3)
   B. MAX SUBSTITUTION OF U FOR WC IN ANY ONE TOILET ROOM: 50% (MPC 424.2)
   C. ACCESSIBLE STALLS REQUIRED (MBC 1110.2.4): 5% OF FIXTURES IN EACH ROOM

CODE LEGEND

- EXIT/EXIT ACCESS WITH CAPACITY SERVED
- DIRECTION OF EGRESS INCLUDING SECONDARY EXIT/EXIT ACCESS
- EXIT — xxx REQUIRED EGRESS CAPACITY; xxx PROVIDED EGRESS CAPACITY (CLEAR DIMENSION / 0.2" PER PERSON)
- FEC — FIRE EXTINGUISHER CABINET LOCATION
- COMMON PATH OF TRAVEL - DISTANCE NOTED ON PLAN
- EXIT PATH OF TRAVEL - DISTANCE NOTED ON PLAN
- NEW 1 HR RATED PARTITION
- POCHE INDICATES EXTENT OF BUSINESS OCCUPANT LOAD (GROSS SF)/100
- POCHE INDICATES EXTENT OF ASSEMBLY OCCUPANT LOAD (NET SF)/15
- POCHE INDICATES EXTENT OF ACCESSORY STORAGE/EQUIPMENT (GROSS SF)/300

NAME	
150 SF	X-9
000 GROSS	0000 OCC.
(DIFFERENT) USE	

CODE AREA

PROGRESSIVE AE, INC.
PROGRESSIVE COMPANIES
Charlotte, NC | Detroit, MI | Grand Rapids, MI
weareprogressive.com

ISABELLA COUNTY
ADMINISTRATION BUILDING INTERIOR RENOVATION
200 N. MAIN STREET
MT. PLEASANT, MI 48858

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARRIOS
CHECKED BY
D. SNYDER

CODE COMPLIANCE PLAN
G101

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G101
C: CODE COMPLIANCE PLAN
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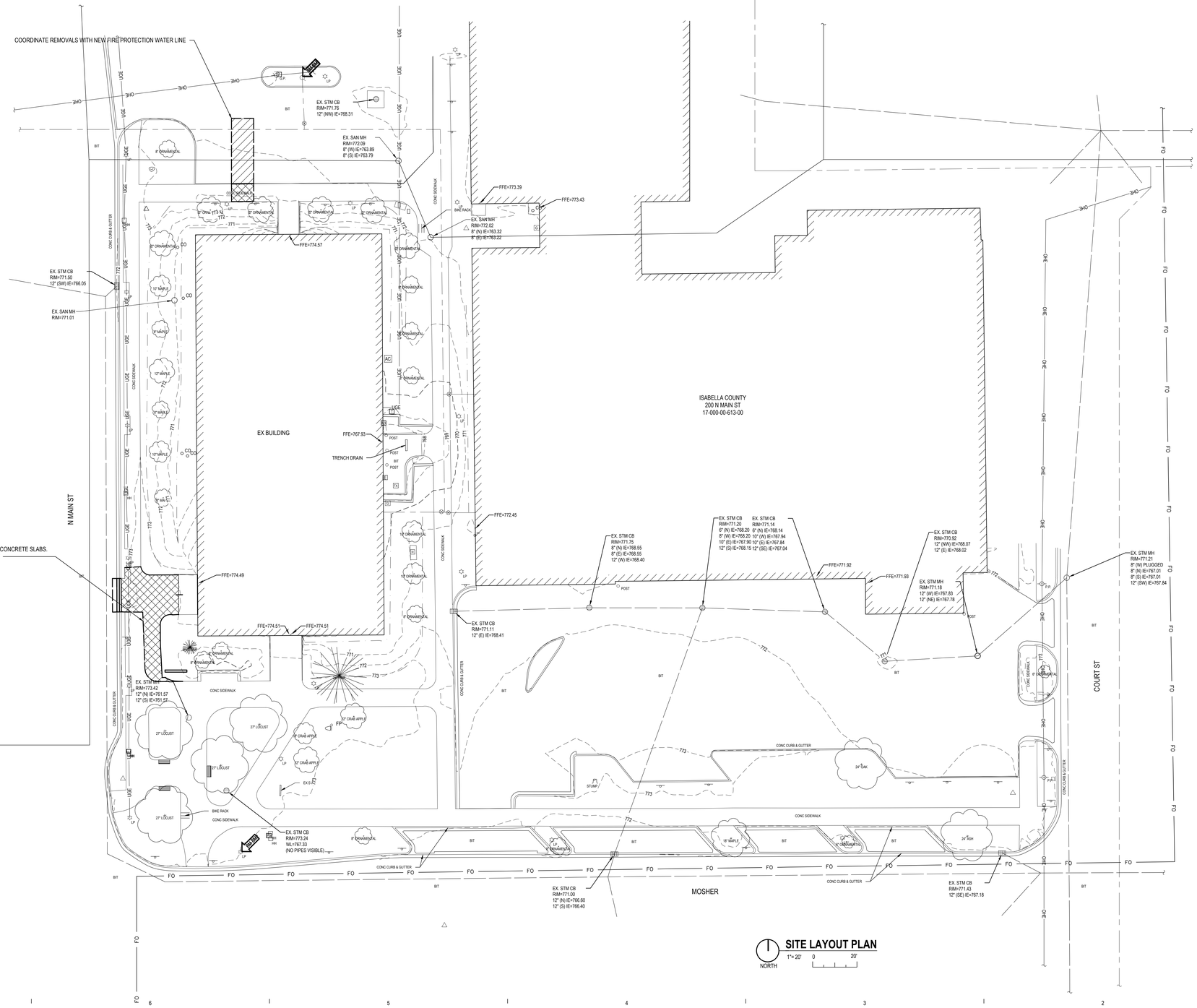

SITE LAYOUT PLAN

CALL 811 NOTE:

CONTRACTOR TO CONTACT 811 SERVICE AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION, TO CONFIRM LOCATION OF EXISTING UTILITIES. DIAL 811.

www.CALL811.com

SITE CLEARING AND DEMOLITION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND BECOMING FAMILIAR WITH THE DEMOLITION AND CLEARING REQUIREMENTS.
2. NO REMOVAL, DEMOLITION, CLEARING OR TOPSOIL REMOVAL SHALL OCCUR ON SITE UNTIL THE SESC AND STORMWATER PERMITS HAVE BEEN ISSUED AND THE CONTRACTOR HAS VERIFIED AND STAKED THE LIMITS OF REMOVAL IN THE FIELD. NOTIFY SITE CONSULTANT OF THE START OF CONSTRUCTION AND DATE WHEN THE LIMITS LINE WILL BE ESTABLISHED FOR REVIEW AND APPROVAL.
3. ALL MATERIALS NOTED TO BE SALVAGED SHALL BE TURNED OVER TO THE OWNER OR REINSTALLED ON SITE AS NOTED.
4. NO BURNING OR BURYING OF CLEARED OR DEMOLITION MATERIAL SHALL BE ALLOWED ON SITE.
5. REMOVE ALL STRUCTURES, FOUNDATIONS, BITUMINOUS PAVEMENT, CONCRETE SIDEWALK STEPS AND OTHER EXISTING SITE FEATURES AS INDICATED ON THE DRAWINGS. ALSO, REMOVE ALL DEBRIS FROM WITHIN CONSTRUCTION LIMITS ON SITE. ALL DEMOLITION MATERIALS SHALL BE REMOVED FROM THE SITE AND, UNLESS OTHERWISE NOTED, DISPOSED OF IN A MANNER ACCEPTABLE TO LOCAL JURISDICTION HAVING AUTHORITY.
6. THE CONTRACTOR SHALL BE LICENSED BY THE STATE OF MICHIGAN FOR DEMOLITION REMOVAL AND HAULING OF MATERIALS.
7. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL PERMITS AND FEES FOR THIS WORK.
8. EXISTING UTILITIES ARE LOCATED TO THE BEST OF OUR KNOWLEDGE. THE CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING EXISTING UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING UTILITY SERVICES AT ALL TIMES.
9. ALL EXCESS OR UNSUITABLE TOPSOIL OR SUBSOIL TO BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED OFFSITE.
10. PROTECT EXISTING TREES UNLESS OTHERWISE NOTED. NO PARKING OR STORAGE OF MATERIALS WITHIN TREE ROOT ZONE. PLACE TREE PROTECTION FENCE WHERE SHOWN ON PLAN.
11. TREE PROTECTION FENCE - ORANGE SAFETY FENCE AROUND TREES SUPPORTED BY STEEL T-BAR FENCE POSTS. ZIP TIE FABRIC TO POSTS. INSTALL PRIOR TO ANY CONSTRUCTION ACTIVITY AND MAINTAIN DURING ENTIRE CONSTRUCTION PERIOD.
12. CONTRACTOR TO CALL 811 AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION, TO CONFIRM LOCATION OF EXISTING UTILITIES.
13. CONTRACTOR MUST RESTORE AND REPAIR ANY EXISTING CONDITIONS DISTURBED BY CONSTRUCTION.
14. ANY AREA DISTURBED BY CONSTRUCTION TO BE RESTORED TO CONDITION EQUAL TO OR BETTER THAN BEFORE CONSTRUCTION BEGAN. PATCH PAVEMENT IN-KIND IF REQUIRED.
15. SAWCUT FULL DEPTH ALL EDGES OF PAVEMENT TO BE REMOVED.
16. ALL GROUND AREAS DISTURBED BY CONSTRUCTION TO BE TOPSOILED AND SEEDED PER THE SITE LANDSCAPE PLAN UNLESS SHOWN OTHERWISE ON PLANS.

SURVEY LEGEND

	MONUMENT
	PROPERTY IRON SET
	PROPERTY IRON FOUND
	TRAFFIC SIGNAL POLE
	BOLLARD LIGHT
	LIGHT POLE
	FLOOD LIGHT
	SIGN
FP	FLAG POLE
CO	CLEANOUT
P.P.	POWER POLE
T.P.	TELEPHONE POLE
HH	ELECTRICAL HAND HOLE
T E C G W	TEL., ELEC., CATV, GAS, WATER RISER
T E G W	TEL., ELEC., GAS, WATER MANHOLE
P P F P	TEL., ELEC., CATV, GAS MARKER
	CATCH BASIN
	MANHOLE
SPR	SPRINKLER
	VALVE & BOX
	HYDRANT
X 000.0	SPOT ELEVATION
000	MAJOR CONTOUR - 5 FT. INTERVAL
001	MINOR CONTOUR - 1 FT. INTERVAL
	GUARD RAIL
X	FENCE LINE
	STORM SEWER
	SANITARY SEWER
	WATERMAIN
G	GAS MAIN
T	UNDERGROUND TELEPHONE LINE
FO	UNDERGROUND FIBER OPTIC LINE
UGE	UNDERGROUND ELECTRIC LINE
	DITCH CENTERLINE, TOE OF SLOPE
	DECIDUOUS TREE
	CONIFEROUS TREE
	TREE & BRUSH LINE
	BUILDING

DEMOLITION LEGEND

	BITUMINOUS PAVEMENT REMOVAL
	CONCRETE REMOVAL
	TREE REMOVAL
X	REMOVE ITEM
	SAWCUT
	ABANDON UTILITY LINE
	REMOVE UTILITY LINE

ALL ITEMS IN BOLD TO BE REMOVED UNLESS OTHERWISE NOTED.

PROGRESSIVE AE, INC.
PROGRESSIVE COMPANIES
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Value COA ARCHITECT
Value COA ENGINEER
Value COA LANDSCAPE

ISABELLA COUNTY
ADMINISTRATION BUILDING INTERIOR RENOVATION
510 PICKARD STREET MT. PLEASANT, MI 48858

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
2300001
PROJECT MANAGER
N. MEIER
PROFESSIONAL
R. LAPLACA
DRAWN BY
R. LAPLACA
CHECKED BY

SITE REMOVALS PLAN
C101

10/13/2026 3:31:01 PM Robert LaPlaca

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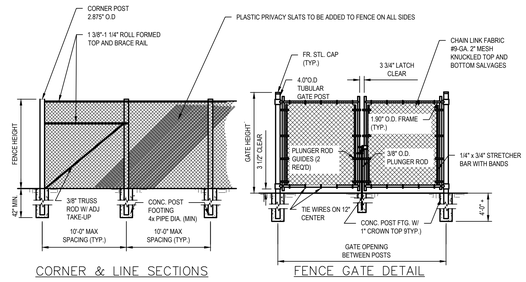
PLANT SCHEDULE

TREES	BOTANICAL / COMMON NAME	CONT
AR	3" Acer rubrum 'October Glory' / Red Maple	B&B

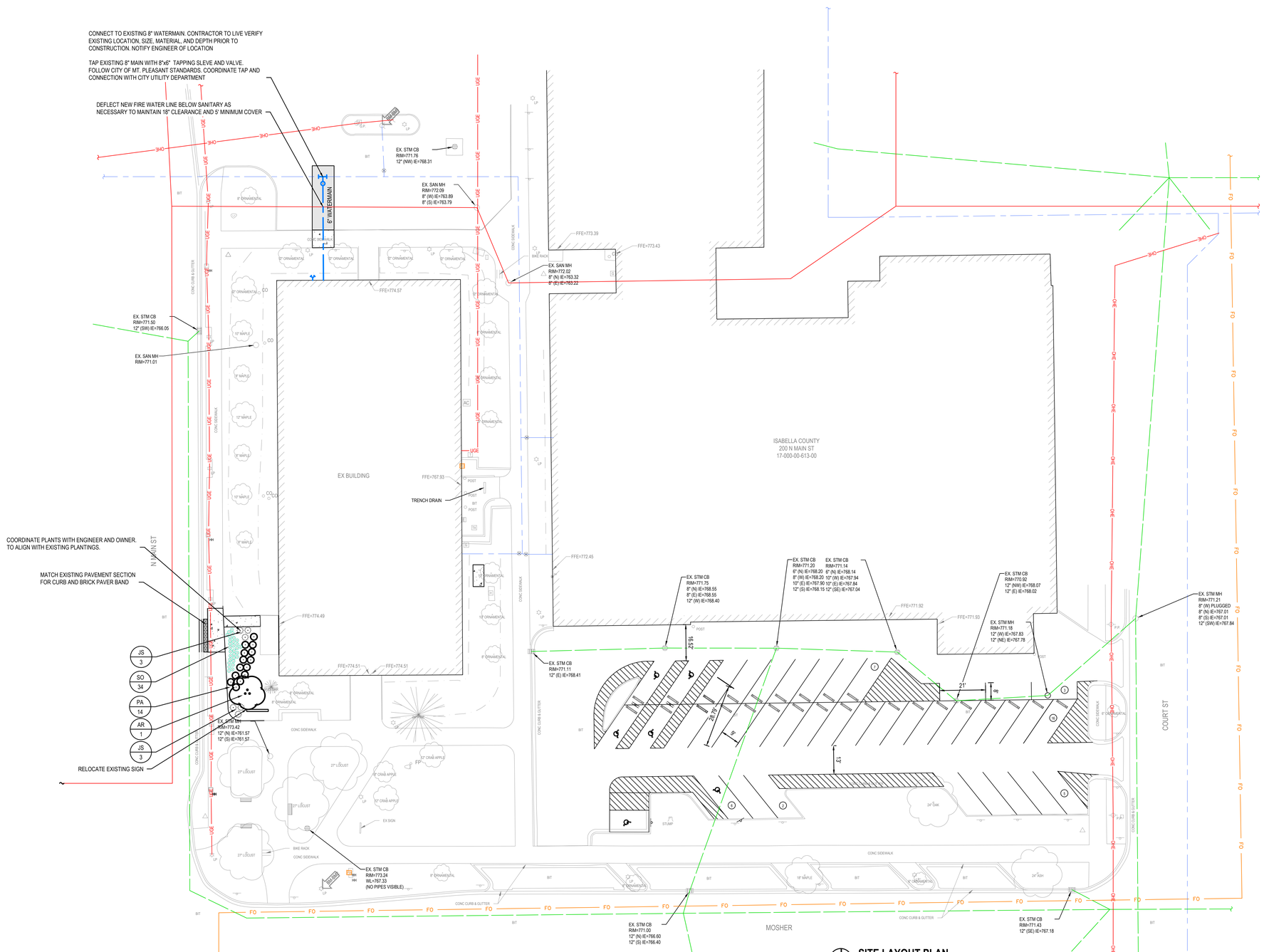
SHRUBS	BOTANICAL / COMMON NAME	CONT
PA	Pennisetum Alopecuroides 'Puppy love / 'Puppy Love' Fountain Grass	#2 Pot 3'- 2' O.C
JS	Juniperus Sabina 'Buffalo' / Buffalo Juniper	5GAL, 3' O.C.

PLANTS	BOTANICAL / COMMON NAME	CONT
SO	Hemerocallis "Stella d'Oro / Daylily	#1 Pot 15" O.C.

PLANTING SCHEDULE TO BE COORDINATED WITH OWNER WITH APPROVAL FROM ARCHITECT.
PLANTS MAY BE SWAPPED WITH ALTERNATES IF THEY ARE APPROVED BY OWNER AND ARCHITECT.



A3 CHAIN LINK FENCE DETAIL W/O BARB WIRE
NOT TO SCALE



1 SITE LAYOUT PLAN

CALL 811 NOTE:

CONTRACTOR TO CONTACT 811 SERVICE AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION, TO CONFIRM LOCATION OF EXISTING UTILITIES. DIAL 811.

www.CALL811.com

ZONING NOTES

ZONE DISTRICT: CZ

PARKING PROVIDED:
STANDARD (9'X18'): 33
BARRIER FREE: 6
TOTAL SPACES: 39

BARRIER FREE NOTES

1. BARRIER FREE PARKING AND ACCESSIBLE ROUTE(S) MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
2. 2% MAXIMUM CROSS SLOPE ON ACCESSIBLE ROUTE(S)
3. 5% MAXIMUM LONGITUDINAL SLOPE (DIRECTION OF TRAVEL) UNLESS AT BARRIER FREE RAMP
4. 2% MAXIMUM SLOPE LONGITUDINAL AND TRANSVERSE SLOPES AT BARRIER FREE PARKING SPACES AND ASSOCIATED ACCESS AISLES
5. ACCESSIBLE ENTRIES - 2% MAXIMUM SLOPE IN ANY DIRECTION FOR THE FIRST 5' FROM ENTRY DOOR
6. CONTRACTOR TO CONTACT ENGINEER PRIOR TO PAVING IF BARRIER FREE SLOPES DO NOT COMPLY OR FOR CLARIFICATION OF ANY DISCREPANCIES.

GENERAL SITE LAYOUT NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE ACCORDING TO THE CURRENT MICHIGAN DEPARTMENT OF TRANSPORTATION (M.D.O.T) STANDARD SPECIFICATIONS FOR CONSTRUCTION.
2. NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.
3. DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED AS B-B (BACK TO BACK) OR E-E (EDGE OF METAL TO EDGE OF METAL).
4. CONTRACTOR TO PAINT STRIPE ALL PARKING SPACES SHOWN. PAINT COLOR TO BE YELLOW. BARRIER FREE MARKINGS TO BE BLUE.
5. UPON REQUEST, ELECTRONIC INFORMATION WILL BE PROVIDED FOR SITE LAYOUT PURPOSES. CONTRACTOR SHALL REQUEST ALL INFORMATION IN WRITING THROUGH PROGRESSIVE AE. LAYOUT OF ALL NEW CONSTRUCTION SHALL BE DONE BY A LICENSED SURVEYOR.
6. ALL CONCRETE JOINTS SHALL BE TOOLED PER SPECIFICATIONS.
7. CONTRACTOR MUST RESTORE AND REPAIR ANY EXISTING CONDITIONS DISTURBED BY CONSTRUCTION. THIS IS TO INCLUDE BURIED UTILITIES, LIGHTING, LANDSCAPING, SPRINKLING, ETC.
8. ANY AREA DISTURBED BY CONSTRUCTION TO BE RESTORED TO CONDITION EQUAL TO OR BETTER THAN BEFORE CONSTRUCTION BEGAN.
9. ALL PAVEMENT, CURB & GUTTER, SIDEWALK AND UTILITIES WITHIN PUBLIC RIGHT OF WAY SHALL MEET MT. PLEASANT STANDARDS.
10. CONTRACTOR TO PROTECT EXISTING IRRIGATION SYSTEM AS MUCH AS POSSIBLE. REPAIR DAMAGE TO EXISTING IRRIGATION SYSTEM AND RECONFIGURE SPRINKLER LAYOUT TO ACCOMMODATE THE NEW IMPROVEMENTS.

WATERMAIN NOTES

1. INSTALL WATERMAIN WITH MINIMUM 5.0' OF COVER TO TOP OF PIPE.
2. PROVIDE A MINIMUM 18" OF VERTICAL SEPARATION AND 10' OF HORIZONTAL SEPARATION BETWEEN WATERMAIN AND ALL SANITARY AND STORM SEWERS.
3. PROVIDE APPROVED MECHANICAL RESTRAINED JOINTS AT ALL WATERMAIN BENDS FOR A MINIMUM DISTANCE FROM THE FITTING AS SHOWN IN THE PIPE RESTRAINT TABLE.
4. WATERMAIN MATERIAL AND INSTALLATION SHALL BE PERFORMED MT. PLEASANT SPECIFICATIONS.
5. 4" AND LARGER WATERMAIN PIPE SHALL BE DUCTILE IRON PIPE.
6. 2" AND SMALLER DOMESTIC WATER SERVICE SHALL BE TYPE K COPPER PIPE.
7. COORDINATE WATER TAPS WITH MT. PLEASANT

PAVEMENT LEGEND

INTEGRAL CONCRETE WALK / CURB

BITUMINOUS PAVEMENT
- 1 1/2" (165 LB/SYD) MDOT 36A BIT. WEARING COURSE
- MDOT TACK COAT @ 0.15 GAL/SY
- 1 1/2" (165 LB/SYD) MDOT 13A BIT. LEVELING COURSE
- 6" AGGREGATE BASE, MDOT 21AA MOD
- 12" SUBBASE, CL II SAND OR APPROVED NATIVE MATERIAL

CONCRETE SIDEWALK
- 4" CONCRETE
- 4" MDOT CLASS II GRANULAR BASE
- APPROVED COMPACTED SUBBASE

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ADMINISTRATION BUILDING INTERIOR RENOVATION
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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
2300001
PROJECT MANAGER
N. MEIER
PROFESSIONAL
R. LAPLACA
DRAWN BY
R. LAPLACA
CHECKED BY

SITE IMPROVEMENTS PLAN
C201

10/13/2026 3:01:22 PM Robert LaPlaca
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GENERAL NOTES

GN.1 THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS AND MATERIALS INDICATED ON THE DRAWINGS AND FOR THE LIVE LOADS INDICATED IN THE DESIGN CRITERIA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING AND SHORING, ETC.

GN.2 COORDINATE THESE DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS.

GN.3 VERIFY AND COORDINATE PRIOR TO FABRICATION ALL ROOF OPENING SIZES AND LOCATIONS, EQUIPMENT PAD SIZES AND LOCATIONS, ANCHOR BOLT LAYOUTS, ETC WITH EQUIPMENT SELECTED.

GN.4 REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS OR OPENINGS, ETC. NOT HEREIN INDICATED.

GN.5 FOR SECTIONS AND DETAILS NOT EXPLICITLY INDICATED ON THE DRAWINGS, USE TYPICAL DETAILS PROVIDED FOR CONDITIONS THAT ARE SIMILAR, OTHERWISE BRING TO THE ATTENTION OF THE STRUCTURAL ENGINEER-OF-RECORD FOR CLARIFICATION.

GN.6 ANY ALTERATION TO A STRUCTURAL ITEM OR MEMBER SHALL BE APPROVED BY THE STRUCTURAL ENGINEER-OF-RECORD.

SPECIAL INSPECTION REQUIREMENTS

SP.1 SPECIAL INSPECTIONS AND STRUCTURAL TESTING ARE REQUIRED AND SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION, AND THE CASE NATIONAL PRACTICE GUIDELINE FOR SPECIAL INSPECTIONS.

SP.2 THE PROGRAM OF SPECIAL INSPECTIONS AND TESTING IS A QUALITY ASSURANCE PROGRAM INTENDED TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, TO INFORM THE CONTRACTOR OF THE OWNER'S QUALITY ASSURANCE PROGRAM AND THE EXTENT OF THE CONTRACTOR'S RESPONSIBILITIES.

SP.3 THE OWNER SHALL ENGAGE AND PAY FOR THE SERVICES OF THE SPECIAL INSPECTOR, AGENT OF THE SPECIAL INSPECTOR, AND TESTING LABORATORY.

SP.4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY RETESTING OR REINSPECTION OF WORK WHICH FAILS TO COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

SP.5 THE CONTRACTOR SHALL COOPERATE WITH THE SPECIAL INSPECTOR AND HIS AGENTS SO THAT THE SPECIAL INSPECTIONS AND TESTING MAY BE PERFORMED WITHOUT HINDRANCE.

SP.6 THE CONTRACTOR SHALL REVIEW THE STATEMENT OF SPECIAL INSPECTIONS AND BE RESPONSIBLE FOR COORDINATING AND SCHEDULING INSPECTIONS AND TESTS. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR OR TESTING LABORATORY AT LEAST 24 HOURS IN ADVANCE OF A REQUIRED INSPECTION OR TEST. UNINSPECTED WORK THAT REQUIRED INSPECTION MAY BE REJECTED SOLELY ON THAT BASIS.

SP.7 THE CONTRACTOR SHALL PROVIDE INCIDENTAL LABOR AND FACILITIES TO PROVIDE ACCESS TO THE WORK TO BE INSPECTED OR TESTED, TO OBTAIN AND HANDLE SAMPLES AT THE SITE OR AT SOURCE OF PRODUCTS TO BE TESTED, TO FACILITATE TESTS AND INSPECTIONS, STORAGE AND CURING OF TEST SAMPLES.

SP.8 THE CONTRACTOR SHALL KEEP AT THE PROJECT SITE THE LATEST SET OF CONSTRUCTION DRAWINGS, FIELD SKETCHES, APPROVED SHOP DRAWINGS, AND SPECIFICATIONS FOR USE BY THE INSPECTORS AND TESTING TECHNICIANS.

SP.9 THE SPECIAL INSPECTION PROGRAM SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO PERFORM WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FROM IMPLEMENTING AN EFFECTIVE QUALITY CONTROL PROGRAM. ALL WORK THAT IS TO BE SUBJECTED TO SPECIAL INSPECTIONS SHALL FIRST BE REVIEWED BY THE CONTRACTOR'S QUALITY CONTROL PERSONNEL.

SP.10 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.

REINFORCED CONCRETE

RC.1 CONCRETE SHALL HAVE THE UNIT WEIGHT AND THE MINIMUM COMPRESSIVE STRENGTHS (f' c) AT 28 DAYS AS SHOWN ON THE CONCRETE MATERIALS SCHEDULE. THE CONTRACTOR SHALL SUBMIT MIX DESIGNS WITH SUBSTANTIATING STRENGTH TEST DATA FOR REVIEW FOR EACH MIX DESIGN USED PER SPECIFICATION REQUIREMENTS PRIOR TO CONCRETE PLACEMENT.

RC.2 MIX DESIGNS ARE THE RESPONSIBILITY OF THE CONCRETE CONTRACTOR/SUPPLIER FOLLOWING THE REQUIREMENTS OUTLINED IN THIS SPECIFICATION AND FOR THE LOCATION IN WHICH THE CONCRETE IS BEING DEPOSITED. MAXIMUM AGGREGATE SIZE SHALL BE SELECTED TO FALL WITHIN THE RANGE SPECIFIED FOR THE REQUIRED STRENGTH INDICATED AS WELL AS TO FACILITATE PLACEMENT CONSIDERING REBAR SPACING AND CONFINEMENT, PLACEMENT AND CONSOLIDATION METHOD, AND CONSTRUCTION SEQUENCING. SLUMPS INDICATED ARE RECOMMENDATIONS FOR TYPICAL CONDITIONS ENCOUNTERED AND SHALL BE VERIFIED AND MODIFIED WITH APPROVAL FOR ACTUAL FIELD CONDITIONS.

RC.3 NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.

RC.4 ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI-318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", AND CONTRACT SPECIFICATIONS. WHEN THERE IS A CONFLICT BETWEEN ACI AND SPECIFICATIONS, THE MORE STRINGENT SHALL GOVERN.

RC.5 CONCRETE REINFORCEMENT BARS SHALL BE DEFORMED AND CONFORM TO ASTM A615, GRADE 60. REINFORCING BARS SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT, UNLESS INDICATED ON THE DOCUMENTS. ALL LAPS SHALL BE TENSION SPLICES UNLESS NOTED OTHERWISE.

RC.6 HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED WITH A TENSION SPLICE AT CORNERS AND INTERSECTIONS, UNLESS NOTED OTHERWISE.

RC.7 SLABS-ON-GRADE SHALL HAVE CONSTRUCTION JOINTS OR CRACK CONTROL JOINTS AS SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS CAN BE USED AT CONTROL JOINT LOCATIONS AT CONTRACTORS OPTION. SEE PLANS AND JOINT DETAILS FOR ADDITIONAL REQUIREMENTS.

RC.8 SLABS-ON-GRADE SHALL MEET THE FLOOR FLATNESS & LEVELNESS CRITERIA OUTLINED IN THE DOCUMENTS. VALUES SHALL BE VERIFIED BY A CERTIFIED TESTING AGENCY PER ASTM E1155 AFTER WORK IS COMPLETE. ELEVATED STRUCTURAL SLABS TO MEET THE FLOOR FLATNESS CRITERIA ONLY.

RC.9 ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AND TIED SECURELY.

RC.10 ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318, AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.

RC.11 SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT, SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.

RC.12 ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS PER TYPICAL DETAILS.

RC.13 SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES.

RC.14 THE CONTRACTOR SHALL COORDINATE ADDITIONAL WALL AND SLAB OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

RC.15 THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT PAD SIZES AND ANCHOR BOLTS WITH EQUIPMENT SELECTED.

RC.16 PROVIDE ADDITIONAL (2) #4 x 3'-0" REINFORCING BARS IN SLAB-ON-GRADE AT ALL RE-ENTRANT CORNERS. PLACE BARS AT MID-DEPTH OF SLAB WITH A CLEARANCE OF 2" FROM CORNER UNLESS NOTED OTHERWISE.

RC.17 PROVIDE SMOOTH DOWELS BETWEEN NEW AND EXISTING CONCRETE FLOOR SLABS UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL

SS.1 STRUCTURAL STEEL ROLLED SHAPES AND PLATES SHALL CONFORM TO THE MATERIALS SCHEDULE. DIMENSIONS AND PROPERTIES SHALL BE IN ACCORDANCE TO ASTM A6.

SS.2 CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL BE 3/4"Ø A325-N, UNLESS NOTED OTHERWISE, AND SHALL CONFORM TO ASTM A325; NUTS SHALL CONFORM TO ASTM A563; WASHERS SHALL CONFORM TO ASTM F436. CONNECTION BOLTS SHALL HAVE A HARDENED WASHER PLACED UNDER THE ELEMENT TO BE TIGHTENED.

SS.3 DETAILING OF STRUCTURAL STEEL CONNECTIONS MUST BE CONSISTENT WITH THE AISC MANUAL OF STEEL CONSTRUCTION, OR THE AISC DETAILING FOR STEEL CONSTRUCTION MANUAL.

SS.4 ALTERNATIVE CONNECTION DETAILS MAY BE SUBMITTED ON SHOP DRAWINGS BY THE CONTRACTOR ONLY IF ACCOMPANIED BY COMPLETE STRUCTURAL CALCULATIONS PREPARED AND SEALED BY A PROFESSIONAL ENGINEER AND SUBMITTED FOR REVIEW.

SS.5 WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE AWS D1.1. ELECTRODES FOR SHOP AND FIELD WELDS SHALL BE CLASS E70XX. ALL WELDING SHALL BE DONE BY QUALIFIED, CERTIFIED WELDERS PER THE ABOVE STANDARD AND REQUIREMENTS OUTLINED IN THE PROJECT SPECIFICATIONS.

SS.6 SHOP AND FIELD TESTING OF WELDS AND BOLTS SHALL BE AS OUTLINED PER THE PROJECT SPECIFICATIONS.

SS.7 ALL WELDS NOT INDICATED SHALL BE THE MINIMUM SIZE FILLET WELD PER AISC GUIDELINES.

SS.8 THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

SS.9 SEE MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS FOR ADDITIONAL OPENINGS NOT INDICATED. PROVIDE SUPPLEMENTAL FRAMING FOR OPENINGS NOT SHOWN PER TYPICAL DETAILS. THE FABRICATOR SHALL VERIFY OPENING LOCATIONS WITH EQUIPMENT SELECTED AND MAKE ANY NECESSARY MODIFICATIONS AT NO ADDITIONAL COST. THE CONTRACTOR SHALL COORDINATE MECHANICAL UNITS AND OPENINGS & ARCHITECTURAL ITEMS REQUIRED FOR COMPLETE INSTALLATION OF WORK. IT IS THE RESPONSIBILITY OF FABRICATOR TO RECEIVE ALL NECESSARY INFORMATION PRIOR TO FABRICATION OF THE STEEL.

SS.10 ALL STRUCTURAL STEEL SHALL RECEIVE A SHOP PRIME FINISH PER THE PROJECT SPECIFICATIONS, EXCEPT THE FOLLOWING:
- SURFACES EMBEDDED IN CONCRETE OR MORTAR. EXTEND PRIMING OF PARTIALLY EMBEDDED MEMBERS TO A DEPTH OF 2 INCHES.
- SURFACES TO BE FIELD WELDED.
- GALVANIZED SURFACES.
- MEMBERS TO RECEIVE SPRAY-APPLIED FIREPROOFING.

ALL EXTERIOR EXPOSED STEEL AND STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED.

STEEL ROOF DECK

RD.1 ROOF DECK SHALL HAVE THE MINIMUM DESIGN PROPERTIES AND ATTACHMENTS AS SHOWN IN THE ROOF DECK SCHEDULE ON THE DESIGN CRITERIA SHEET.

RD.2 STEEL ROOF DECK SHALL BE ASTM A1008/A NON-GALVANIZED UNLESS NOTED OTHERWISE. FOR EXTERIOR APPLICATIONS WHERE THE DECK IS EXPOSED TO WEATHER, OR WHERE DECK IS TO RECEIVE SPRAY FIRE PROOFING, PROVIDE GALVANIZED ROOF DECK CONFORMING TO ASTM A653/A. PROVIDE MINIMUM YIELD STRENGTHS AS SPECIFIED IN THE ROOF DECK SCHEDULE AND IN COMPLIANCE WITH THE STEEL DECK INSTITUTE DESIGN MANUAL.

RD.3 STEEL ROOF DECK SHALL BE ERECTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND ERECTION LAYOUTS AND CONNECTED TO SUPPORTING MEMBERS AS INDICATED IN THE ROOF DECK SCHEDULE.

RD.4 IN ADDITION TO MEETING THE MINIMUM REQUIREMENTS INDICATED IN THE ROOF DECK SCHEDULE, THE DECK MANUFACTURER SHALL DESIGN THE ROOF DECK AND ATTACHMENTS TO STEEL FOR THE NET WIND UPLIFT.

RD.5 ALL ROOF DECK SHALL HAVE A MINIMUM SPAN CONDITION AS INDICATED IN THE ROOF DECK SCHEDULE UNLESS NOTED OTHERWISE ON THE DRAWINGS.

RD.6 ALL ENDLAPS SHALL BE A MINIMUM OF 2" AND SHALL OCCUR OVER SUPPORTS.

RD.7 DO NOT SUSPEND PIPES, DUCTS, OR CEILING FROM ROOF DECK.

STEEL FLOOR DECK

FD.1 FLOOR DECK SHALL HAVE THE MINIMUM DESIGN PROPERTIES AND ATTACHMENTS AS SHOWN IN THE FLOOR DECK SCHEDULE ON THE DESIGN CRITERIA SHEET.

FD.2 FLOOR DECK SHALL BE ASTM A653/A (HOT DIP GALVANIZED). PROVIDE MINIMUM YIELD STRENGTHS AS SPECIFIED IN THE FLOOR DECK SCHEDULE AND IN COMPLIANCE WITH THE STEEL DECK INSTITUTE DESIGN MANUAL.

FD.3 STEEL FLOOR DECK SHALL BE ERECTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND ERECTION LAYOUTS AND CONNECTED TO SUPPORTING MEMBERS AS INDICATED IN THE FLOOR DECK SCHEDULE.

FD.4 ALL ENDLAPS SHALL BE A MINIMUM OF 2" AND SHALL OCCUR OVER SUPPORTS.

POST INSTALLED ANCHORS

PA.1 POST INSTALLED ANCHORS SHALL BE MANUFACTURED BY HILTI, INC. INTERNATIONAL CODE COUNCIL (ICC) APPROVED SUBSTITUTIONS (ALTERNATES) ARE ALLOWED AND MAY BE SUBMITTED FOR REVIEW AND APPROVAL. BUT PROPER DOCUMENTATION MUST BE PROVIDED WHICH CLEARLY INDICATES EQUIVALENCY BETWEEN MANUFACTURERS, INCLUDING ANY ICC APPROVAL DOCUMENTATION, NECESSARY REDUCTIONS FOR SPACING, EDGE DISTANCES, ETC. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR COORDINATING AND VERIFYING EQUIVALENCE FOR SUBSTITUTIONS. PROPER DOCUMENTATION MUST INCLUDE LOCATIONS, DETAIL REFERENCES, AND SPECIFIED BOLT VERSUS REQUESTED BOLT CAPACITIES. SUBMITTAL OF THE ALTERNATE MANUFACTURER'S STANDARD LOAD TABLES ALONE IS NOT ACCEPTABLE AND WILL BE REJECTED UNTIL PROPER DOCUMENTATION HAS BEEN PROVIDED.

PA.2 THE FOLLOWING ANCHORS SHALL BE USED FOR THE VARIOUS APPLICATIONS LISTED UNLESS NOTED OTHERWISE. SEE THE DRAWINGS FOR SIZE, SPACING AND REQUIRED EMBEDMENT. PROVIDE MINIMUM SUCH DIAMETER ANCHORS AT LOCATIONS NOT INDICATED. PROVIDE STANDARD EMBEDMENT AT LOCATIONS NOT INDICATED.

ATTACHMENT TO CONCRETE:
-EXPANSION ANCHORS: HILTI KWIK BOLT TZ2.
-ADHESIVE ANCHORS: HILTI HAS RODS WITH HIT-HY 200 V3 INJECTION ADHESIVE.
-SCREW ANCHORS: HILTI KWIK HUS-EZ
-REINFORCING BAR: HILTI HIT-HY200 V3

PA.3 THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FOLLOWING THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AS WELL AS ANY NECESSARY INSTALLATION TOOLS REQUIRED FOR PLACEMENT OF ANCHORS. HOLE INSTALLATION CONDITIONS SHALL BE HAMMER DRILL DRY.

PA.4 POST INSTALLED ANCHORS (EXPANSION AND ADHESIVE TYPES) USED IN SLIP (MOVEMENT) CONNECTIONS SHALL BE STUD TYPE UNLESS NOTED OTHERWISE. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S TORQUE REQUIREMENTS TO ALLOW PROPER SEATING OF THE ANCHOR PRIOR TO BACKING OFF THE NUT TO FINGER-TIGHT.

EXISTING BUILDING/DEMOLITION NOTES

EB.1 STRUCTURAL LAYOUT INCLUDING DIMENSIONS, ELEVATIONS AND STRUCTURAL SIZES FOR THE EXISTING BUILDING WERE OBTAINED FROM THE ORIGINAL CONSTRUCTION DOCUMENTS AND SHALL BE FIELD VERIFIED. IF ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND THE AS-BUILT CONDITIONS ARE DISCOVERED, NOTIFY THE ENGINEER OF RECORD IMMEDIATELY.

EB.2 COORDINATE DEMOLITION OF ALL STRUCTURE WITH THESE DRAWINGS, ARCHITECTURAL, DEMOLITION, AND EXISTING DRAWINGS.

EB.3 CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING BUILDING DURING NEW CONSTRUCTION.

EB.4 CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY OR PERMANENT SHORING OF EXISTING STRUCTURE DURING CONSTRUCTION.

EB.5 WHERE NEW OPENINGS ARE TO BE CUT THROUGH EXISTING CONCRETE STRUCTURE, OVERCUTTING OF THE CONCRETE IS NOT PERMITTED. HAND-CHIP CORNERS OF OPENING AS REQUIRED.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

REQUIRED IF CHECKED	INSPECTION TASK	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
☑	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND VERIFY PLACEMENT	☐	☑
☑	REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND c. INSPECT ALL OTHER WELDS	☐ ☐ ☑	☑ ☑ ☐
☑	INSPECT ANCHORS CAST IN CONCRETE	☐	☑
☑	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN a.	☑ ☐	☐ ☑
☑	VERIFY USE OF REQUIRED DESIGN MIX	☐	☑
☑	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE	☑	☐
☑	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	☑	☐
☑	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	☐	☑
☐	INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS	☑ ☑	☐ ☐
☐	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	☐	☑
☐	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	☐	☑
☑	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	☐	☑

COLD FORMED METAL FRAMING (CFMF)

MF.1 THE COLD FORMED METAL FRAMING IS A PERFORMANCE SPECIFIED ITEM AND SHALL BE DESIGNED BY THE SUPPLIER FOR THE WIND LOADS SHOWN IN THE DESIGN CRITERIA AND ANY OTHER LOADS SHOWN HEREIN. ALL STRUCTURAL MEMBERS AND CONNECTIONS (INCLUDING CONNECTIONS TO CONCRETE AND CMU WHERE APPLICABLE) SHALL BE DESIGNED IN ACCORDANCE WITH THE AISI "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" LATEST EDITION. SUBMIT CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE FOR REVIEW. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

MF.2 COLD FORMED METAL FRAMING SIZES AND SPACING SHOWN IS THE MINIMUM REQUIRED AND MAY NEED TO BE INCREASED BASED ON THE FINAL ANALYSIS BY THE CFMF DESIGNER. SIZES SPECIFIED FOLLOW THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) STANDARD DESIGNATION:
MEMBER DEPTH (1/100") - STYLE - FLANGE WIDTH (1/100") - MATERIAL THICKNESS (1/1000")
FOR EXAMPLE, A 600S162-54 DESIGNATION INDICATES A 6-INCH DEEP STUD SHAPE WITH 1 5/8" FLANGES, 54 MILS THICK.

MF.3 THE COLD FORMED METAL FRAMING SHALL BE MANUFACTURED FROM STRUCTURAL QUALITY STEEL HAVING A MINIMUM YIELD STRENGTH OF 33 ksi UNLESS NOTED OTHERWISE AND HAVE MINIMUM PROTECTION COATING EQUAL TO G-60 GALVANIZED FINISH CONFORMING TO ASTM A1003.

MF.4 THE STRUCTURAL FRAMING SHALL MEET ASTM C955 AND HAVE ENGINEERING PROPERTIES CALCULATED IN CONFORMANCE WITH THE AISI SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL STEEL MEMBERS AND HAVE MINIMUM PROPERTIES AS PUBLISHED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).

MF.5 FASTENING OF COMPONENTS SHALL BE WELDED OR SCREWED WITH SELF TAPPING SCREWS OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION.

MF.6 SUBMIT VENDOR'S PUBLISHED LITERATURE, TEST DATA AND INSTALLATION INSTRUCTIONS FOR METAL STUDS ASSEMBLY AND ACCESSORIES INCLUDING OTHER DATA AS MAY BE REQUIRED TO CERTIFY COMPLIANCE WITH THE PERFORMANCE REQUIREMENTS SPECIFIED HEREIN.

SPECIAL INSPECTION TASKS PRIOR TO WELDING

REQUIRED IF CHECKED	INSPECTION TASK	PERFORM TASKS FOR EACH WELDED JOINT OR MEMBER	OBSERVE ITEMS ON RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING INSPECTIONS
☑	WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	☑	☐
☑	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	☑	☐
☑	MATERIAL IDENTIFICATION (TYPE/GRADE)	☐	☑
☑	WELDER IDENTIFICATION SYSTEM	☐	☑
☑	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	☐	☑
☑	CONFIGURATION AND FINISH OF ACCESS HOLES	☐	☑
☑	FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	☐	☑

SPECIAL INSPECTION TASKS DURING WELDING

REQUIRED IF CHECKED	INSPECTION TASK	PERFORM TASKS FOR EACH WELDED JOINT OR MEMBER	OBSERVE ITEMS ON RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING INSPECTIONS
☑	USE OF QUALIFIED WELDERS	☐	☑
☑	CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	☐	☑
☑	NO WELDING OVER CRACKED TACK WELDS	☐	☑
☑	ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	☐	☑
☑	WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) • PROPER POSITION (F, V, H, OH)	☐	☑
☑	WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	☐	☑

SPECIAL INSPECTION TASKS AFTER WELDING

REQUIRED IF CHECKED	INSPECTION TASK	PERFORM TASKS FOR EACH WELDED JOINT OR MEMBER	OBSERVE ITEMS ON RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING INSPECTIONS
☑	WELDS CLEANED	☐	☑
☑	SIZE, LENGTH AND LOCATION OF WELDS	☑	☐
☑	WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	☑	☐
☑	ARCH STRIKES	☑	☐
☑	k-AREA	☑	☐
☑	BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	☑	☐
☑	REPAIR ACTIVITIES	☑	☐
☑	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	☑	☐

SPECIAL INSPECTION TASKS PRIOR TO BOLTING

REQUIRED IF CHECKED	INSPECTION TASK	PERFORM TASKS FOR EACH BOLTED JOINT OR MEMBER	OBSERVE ITEMS ON RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING INSPECTIONS
☑	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	☑	☐
☑	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	☐	☑
☑	PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	☐	☑
☑	PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	☐	☑
☑	CONNECTING ELEMENTS INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	☐	☑
☑	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	☐	☑
☑	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	☐	☑

SPECIAL INSPECTION TASKS DURING BOLTING

REQUIRED IF CHECKED	INSPECTION TASK	PERFORM TASKS FOR EACH BOLTED JOINT OR MEMBER	OBSERVE ITEMS ON RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING INSPECTIONS
☑	FASTENER ASSEMBLIES OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	☐	☑
☑	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	☐	☑
☑	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	☐	☑
☑	FASTENERS ARE PRETENSION IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	☐	☑

SPECIAL INSPECTION TASKS AFTER BOLTING

REQUIRED IF CHECKED	INSPECTION TASK	PERFORM TASKS FOR EACH BOLTED JOINT OR MEMBER	OBSERVE ITEMS ON RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING INSPECTIONS
☑	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	☑	☐

INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT

REQUIRED IF CHECKED	INSPECTION TASK	PERFORM	OBSERVE
☑	VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS	☑	☐
☑	DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES	☑	☐

INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT

REQUIRED IF CHECKED	INSPECTION TASK	PERFORM	OBSERVE
☑	VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS	☑	☐
☑	VERIFY DECK MATERIALS ARE REPRESENDED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	☑	☐
☑	DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES	☑	☐

INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING

REQUIRED IF CHECKED	INSPECTION TASK	PERFORM	OBSERVE
☑	MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	☐	☑
☑	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	☐	☑
☑

STEEL MATERIALS SCHEDULE

STRUCTURAL ELEMENT	MINIMUM YIELD STRENGTH F_y (ksi)	REMARKS
BEAMS, GIRDERS, ALL W-SHAPES	50	ASTM A572 ASTM A992
PLATES, ANGLES, CHANNELS, ALL OTHERS	36	ASTM A36
TYPICAL ANCHOR BOLTS	36	ASTM F1554 GRADE 36

CONCRETE MATERIALS AND MIX DESIGN SCHEDULE

STRUCTURAL ELEMENT	ACI EXPOSURE CLASS	MAX W/C RATIO	f'_c (PSI)	AIR-ENTRAINMENT REQUIRED [SEE NOTE 3]	REMARKS
INTERIOR SLAB ON GRADE	F0	0.5	4000	NO	-
SLAB ON METAL DECK	F0	0.5	3500	NO	-

NOTES:
1. FINAL MIX DESIGN TO BE BY THE CONCRETE SUPPLIER FOLLOWING THIS TABLE AS A MINIMUM.
2. SEE REINFORCED CONCRETE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. SEE ACI 318 FOR AIR ENTRAINMENT RECOMMENDATIONS BASED ON EXPOSURE TYPE AND MAXIMUM AGGREGATE SIZE.

CONCRETE COVER SCHEDULE

LOCATION		CLEAR COVER
CONCRETE PLACED AGAINST EARTH		3"
CONCRETE PLACED IN FORMS BUT EXPOSED TO WEATHER OR EARTH	#5 BARS AND SMALLER	1 1/2"
	#6 BARS AND LARGER	2"
SLABS OR WALLS NOT EXPOSED TO WEATHER OR EARTH		3/4"

NOTES:
1. MINIMUM CONCRETE COVER APPLIES TO OUTER-MOST LAYER OF REINFORCING BARS.
2. SPECIFIC DIMENSIONS FOR BAR PLACEMENT SHOWN IN SECTIONS AND DETAILS SHALL SUPERSEDE MINIMUM SCHEDULED REQUIREMENTS.
3. PROVIDE ACCESSORIES AS REQUIRED TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE FABRIC TO MAINTAIN CONCRETE PROTECTION SPECIFIED.

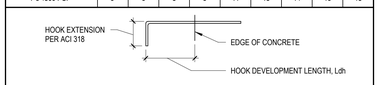
MINIMUM LAP SPLICES SCHEDULE OF REINFORCING BARS IN TENSION (INCHES)

	CONC COVER \ BAR SIZE:	#3	#4	#5	#6	#7	#8	#9	#10	#11
f'_c = 4000 psi	3/4"	16	19	28	37	60	74	90	108	127
	1"	16	16	22	31	50	62	76	92	108
	1 1/2"	16	16	19	22	37	47	57	70	84
	2"	16	16	19	22	33	37	46	57	68
f'_c = 4500 psi	3/4"	16	18	26	36	57	70	85	102	120
	1"	16	16	21	29	47	59	71	86	102
	1 1/2"	16	16	18	21	35	44	54	66	79
	2"	16	16	18	21	31	35	44	54	65

NOTES:
1. SCHEDULE IS FOR TYPICAL SPLICE LENGTHS FOR VERTICAL OR HORIZONTAL REINFORCEMENT. REINFORCEMENT WHICH IS PLACED ABOVE 12" OR MORE OF FRESH CONCRETE IS CONSIDERED "TOP" BARS AND THE SCHEDULE VALUES ARE MULTIPLIED BY 1.3
2. ALL SPLICES SHALL BE WIRED IN CONTACT. HORIZONTAL BARS TO BE STACKED VERTICAL UNLESS NOTED OTHERWISE.
3. ALL SPLICES ARE TENSION SPLICES WITH LENGTHS PER SCHEDULE UNLESS NOTED OTHERWISE. LAP LENGTHS SPECIFICALLY DETAILED ON DRAWINGS SHALL GOVERN IN LIEU OF LAP LENGTHS SCHEDULED.
4. SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZED BARS.
5. CLEAR COVER APPLIES TO BAR BEING LAPPED, NOT NECESSARILY MINIMUM COVER AS SHOWN IN CONCRETE COVER SCHEDULE.
6. STRAIGHT DEVELOPMENT LENGTH OF AN UNLAPPED BAR IS EQUAL TO VALUE FROM SCHEDULE DIVIDED BY 1.3.
7. SCHEDULE ASSUMES CONCRETE IS NORMAL WEIGHT WITH YIELD STRENGTH OF REINFORCEMENT, f_y EQUAL TO 60 ksi. FOR LIGHT WEIGHT CONCRETE, MULTIPLY THE SCHEDULED VALUES BY 1.3.
8. CENTER TO CENTER SPACING OF BARS IS ASSUMED TO BE GREATER THAN TWICE THE CONCRETE COVER PLUS ONE BAR DIAMETER.
9. THE TRANSVERSE REINFORCEMENT INDEX Krb IS ASSUMED TO BE ZERO.
10. FOR EPOXY-COATED BARS WITH COVER LESS THAN 3x BAR DIAMETER OR CLEAR SPACING LESS THAN 6x BAR DIAMETER MULTIPLY THE SCHEDULED VALUES BY 1.5. FOR ALL OTHER EPOXY-COATED BARS MULTIPLY THE SCHEDULED VALUES BY 1.2.

HOOK DEVELOPMENT LENGTH SCHEDULE (INCHES)

BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
f'c 4000 PSI	6	7	8	10	12	13	15	17	19
f'c 4500 PSI	6	6	8	9	11	13	14	16	18



NOTES:
1. HOOK DEVELOPMENT LENGTH ALSO APPLIES FOR 180 DEGREE HOOKED BARS.
2. SIDE COVER IS ASSUMED TO BE GREATER THAN 2 1/2". IF THIS CRITERIA IS NOT MET, MULTIPLY SCHEDULED VALUES BY 1.4.
3. COVER BEYOND HOOK IS ASSUMED TO BE GREATER THAN 2".
4. SCHEDULE ASSUMES CONCRETE IS NORMAL WEIGHT WITH YIELD STRENGTH OF REINFORCEMENT, fy EQUAL TO 60 ksi. FOR LIGHT WEIGHT CONCRETE, MULTIPLY THE SCHEDULE VALUES BY 1.3.

STRUCTURAL DESIGN CRITERIA

ALL DESIGNS SHALL CONFORM TO THE PROVISIONS OF THE MICHIGAN BUILDING CODE, 2021 EDITION.

A.1 **ASSUMED EXISTING DEAD LOADS**

TYPICAL FLOOR: 80 PSF
TYPICAL ROOF: 20 PSF

B.1 **ASSUMED EXISTING LIVE LOADS**

TYPICAL FLOOR: 100 PSF
TYPICAL ROOF: 20 PSF

C.1 **SNOW LOAD**

GROUND SNOW LOAD, Pg 40 PSF
SNOW LOAD IMPORTANCE FACTOR, Is 1.00
SNOW EXPOSURE FACTOR, Ce 1.00
SNOW THERMAL FACTOR, Ct 1.10
UNIFORM ROOF DESIGN SNOW LOAD: 30.8 PSF

C.2 **SNOW DRIFT LOADS**

ROOF MEMBERS HAVE BEEN DESIGNED, WHERE APPLICABLE, FOR SNOW DRIFT LOADING IN THE AREA OF OCCURANCE. SEE SNOW DRIFT DIAGRAM FOR SNOW DRIFT LOADING CRITERIA.

D.1 **SEISMIC LOAD**

RISK CATEGORY II
IMPORTANCE FACTOR, Ie 1.00
MAPPED RESPONSE PARAMETER, Ss 0.600
MAPPED RESPONSE PARAMETER, S1 0.100
SITE CLASS D
DESIGN RESPONSE PARAMETER, SDS 0.5280
DESIGN RESPONSE PARAMETER, SD1 0.1600
DESIGN CATEGORY D
SEISMIC RESISTING SYSTEM STEEL ORDINARY CONCENTRICALLY BRACED FRAMES
DESIGN BASE SHEAR, V 14.6 k
SEISMIC RESPONSE COEFFICIENT, Cs 0.162
RESPONSE MOD FACTOR 3.3
ANALYSIS PROCEDURE EQUIVALENT LATERAL-FORCE ANALYSIS

E.1 **WIND LOAD**

ASCE 7- 16 (PRESSURES ARE ULTIMATE, FACTOR BY 0.6 FOR ASD)

ULTIMATE DESIGN WIND SPEED, Vult 106 MPH
NOMINAL DESIGN WIND SPEED, Vasd = Vult√0.6 83 MPH
RISK CATEGORY II
WIND EXPOSURE CATEGORY C
INTERNAL PRESSURE COEFFICIENT, GCpi 0.18 +/-

E.2 **DESIGN WIND PRESSURE - MAIN WINDFORCE RESISTING SYSTEM**

MWFRS WIND PRESSURE (PSF)

SURFACE	FIELD	EDGE/CORNER
WINDWARD WALL	14.6	19.8
LEEWARD WALL	-2.8	-6.3
WINDWARD + LEEWARD	17.3	26.1

EDGE/CORNER DIMENSION, 2a = 16.6 ft

E.3 **DESIGN WIND PRESSURE - ROOF UPLIFT COMPONENTS &...**

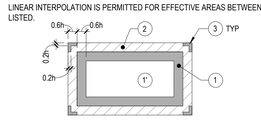
ROOF COMPONENTS & FASTENERS SHALL BE DESIGNED FOR THE WIND PRESSURES SHOWN IN THE TABLE BELOW. VALUES ARE GROSS UPLIFT PRESSURE.

COMPONENTS & CLADDING ROOF PRESSURE (PSF)

EFFECTIVE WIND AREA	ZONE 1	1'	2	3
AREA = 10 ft2	-47.2	-27.1	-62.2	-84.8
AREA = 50 ft2	-40.0	-27.1	-53.0	-66.2
AREA = 100 ft2	-36.8	-27.1	-49.0	-58.2

CORNER DIMENSION, 0.2h= 7.4 ft

LINEAR INTERPOLATION IS PERMITTED FOR EFFECTIVE AREAS BETWEEN THOSE LISTED.



SCHEMATIC ROOF PLAN (ZONES 1, 2, AND 3)

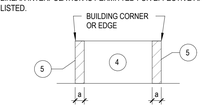
E.4 **DESIGN WIND PRESSURE - WALL PRESSURES COMPONENTS & CLADDING**

COMPONENTS & CLADDING WALL PRESSURE (PSF)

EFFECTIVE WIND AREA	NEGATIVE ZONE 4	NEGATIVE ZONE 5	POSITIVE ZONE 4 & 5
AREA = 10 ft2	-29.4	-36.1	27.1
AREA = 100 ft2	-25.4	-28.2	23.1
AREA = 200 ft2	-24.2	-25.8	21.9

CORNER DIMENSION, 0.2h = 7.4 ft

LINEAR INTERPOLATION IS PERMITTED FOR EFFECTIVE AREAS BETWEEN THOSE LISTED.



SCHEMATIC WALL ELEVATION (ZONES 4 AND 5)

F.1 **FOUNDATION DESIGN CRITERIA**

F.1.1 GEOTECHNICAL INFORMATION FOR THIS PROJECT WAS ASSUMED FROM CODE MINIMUM VALUES

F.1.2 MINIMUM FROST PROTECTION DEPTH BELOW GRADE IS: 42 INCHES
F.1.3 MINIMUM FACTOR OF SAFETY FOR STABILITY AGAINST SLIDING, OVERTURNING AND UPLIFT IS 1.5.

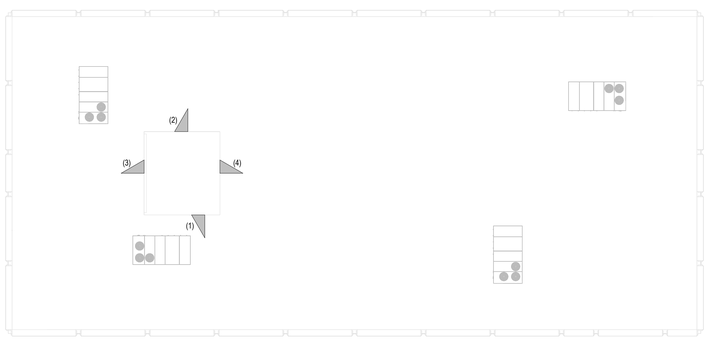
F.1.4 EQUIVALENT FLUID PRESSURE USED FOR RETAINING WALL DESIGN = 40 PCF FOR "ACTIVE" CONDITION AND 55 PCF FOR "AT REST" CONDITION.

F.1.5 ASSUMED ALLOWABLE SOIL BEARING CAPACITY: 1,500 PSF

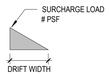
ABBREVIATIONS

AB	ANCHOR BOLT
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECT, ARCHITECTURAL
BFE	BOTTOM OF FOOTING ELEVATION
BLDG	BUILDING
BOT	BOTTOM
BSE	BOTTOM OF STEEL ELEVATION
CFMF	COLD FORMED METAL FRAMING
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION WELD
CL	CENTERLINE
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS; CONTINUATION
COORD	COORDINATE
CTJ	CONSTRUCTION JOINT
CTR	CENTER
DBE	DECK BEARING ELEVATION
DEG	DEGREES
DIA	DIAMETER
DL	DEAD LOAD
DWG	DRAWING
EA	EACH
EF	EACH FACE
EOR	EDGE OF ROOF
EOS	EDGE OF SLAB
EQ	EQUAL
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
FDN	FOUNDATION
FFE	FINISHED FLOOR ELEVATION
FT	FOOT, FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE, GAGE
GALV	GALVANIZED
GT	GIRDER TRUSS
HORIZ	HORIZONTAL
HSS	HOLLOW STEEL SECTION
HT	HEIGHT
KB	KNEE BRACE
LL	LIVE LOAD
LLH	LONG LEG, HORIZONTAL
LLV	LONG LEG, VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LVL	LAMINATED VENEER LUMER
LW	LONG WAY
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
NIC	NOT IN CONTRACT
OC	ON CENTER
OPP	OPPOSITE
PJP	PARTIAL JOINT PENETRATION WELD
PL	PLATE
PP	PARTIAL PENETRATION WELD
PSI	POUNDS PER SQUARE INCH
PT	POINT
QTY	QUANTITY
RAD	RADIUS
REQ	REQUIRED, REQUIREMENT
REV	REVISE, REVISION
SIM	SIMILAR
SL	SNOW LOAD
SPEC	SPECIFICATION
SSH	SHORT SIDE HORIZONTAL
SSV	SHORT SIDE VERTICAL
SW	SHORT WAY
T&B	TOP AND BOTTOM
TBD	TO BE DETERMINED
TCE	TOP OF CONCRETE ELEVATION
TFE	TOP OF FOOTING ELEVATION
TLE	TOP OF LEDGE ELEVATION
TPE	TOP OF PIER ELEVATION
TSE	TOP OF STEEL ELEVATION
TWE	TOP OF WALL ELEVATION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VDB	VERTICAL DIAGONAL BRACE
VERT	VERTICAL
VXB	VERTICAL X-BRACE
W/	WITH
WL	WIND LOAD
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT

DRIFT ID#	SURCHARGE (PSF)	DRIFT WIDTH (FT)
1	24	5
2	31	7
3	33	7
4	61	13



A **SNOW DRIFT LOCATION PLAN**
1/16" = 1'-0"



DRIFT DIAGRAM LEGEND

SLAB ON GRADE SCHEDULE

TYPE	THICKNESS	REINFORCEMENT	VAPOR RETARDER	FLOOR FLATNESS F (F)	FLOOR FLATNESS F (L)	REMARKS
SG-1	4"	FIBER	YES	35	25	-

NOTES:
1. ALL SLABS TO BE PLACED OVER VAPOR RETARDER (WHERE INDICATED) OVER 6" MINIMUM COMPACTED GRANULAR SUBBASE (UNLESS NOTED OTHERWISE IN GEOTECH REPORT).
2. WHERE WWR OR BARS INDICATED, PLACE 1/2" FROM BOTTOM OF CONTROL JOINT CUT, UNLESS NOTED OTHERWISE.
3. SEE SPECS FOR FIBER TYPE AND DOSAGE.

ROOF DECK SCHEDULE

ROOF DECK DESIGNATION	DECK TYPE	GAGE	MIN YIELD F_y	MINIMUM DECK SECTION PROPERTIES (PER FOOT WIDTH) I_p (in⁴/ft)	S_p (in³/ft)	I_n (in⁴/ft)	S_n (in³/ft)	DECK FASTENERS WELD PATTERN	# SIDELAP FASTENERS	MIN SPAN COND	REMARKS
RD-1	1.5B	20	33 ksi	0.201	0.234	0.222	0.247	36/4	4 PER SPAN	3-SPAN UNO	-

NOTES:
1. ROOF DECK SHALL BE WELDED TO SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS IN THE BOTTOM OF THE FLUTES USING THE WELD PATTERN INDICATED.
2. ROOF DECK SIDELAPS SHALL BE FASTENED USING #10 TEK SCREWS WITH THE MINIMUM NUMBER OF FASTENERS PER SPAN (BETWEEN SUPPORTS) AS INDICATED.
3. ROOF DECK SHALL BE ATTACHED TO ALL PERIMETER EDGE ANGLES, EAVE STRUTS, OR MEMBERS AROUND OPENINGS AND PENETRATIONS WITH 5/8" DIAMETER PUDDLE WELDS IN THE BOTTOM OF THE FLUTES AT 6" OC UNLESS NOTED OTHERWISE.

FLOOR DECK SCHEDULE

FLOOR DECK DESIGNATION	DECK TYPE	GAGE	MIN YIELD F_y	COMPOSITE SHEAR STUDS	CONCRETE SLAB THICKNESS ABOVE DECK	TOTAL SLAB THICKNESS	MAXIMUM WET UNIT WEIGHT (PCF)	REINFORCEMENT	MINIMUM DECK SECTION PROPERTIES (PER FOOT WIDTH) I_p (in⁴/ft)	S_p (in³/ft)	I_n (in⁴/ft)	S_n (in³/ft)	DECK FASTENERS WELD PATTERN	# SIDELAP FASTENERS	MIN SPAN COND	REMARKS
FD-1	1.5 VL	20	50 ksi	3/4"Øx4"	3 1/2"	5"	150	6x6 W2.9xW2.9 WWR	0.182	0.218	0.216	0.226	36/4	4 PER SPAN	2-SPAN	GALVANIZED

NOTES:
1. FLOOR DECK SHALL BE WELDED TO SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS IN THE BOTTOM OF THE FLUTES USING THE WELD PATTERN INDICATED AT LOCATIONS WHERE SHEAR STUDS DO NOT OCCUR.
2. FLOOR DECK SIDELAPS SHALL BE FASTENED USING #10 TEK SCREWS WITH THE MINIMUM NUMBER OF FASTENERS PER SPAN AS INDICATED.
3. FLOOR DECK SHALL BE ATTACHED TO ALL PERIMETER EDGE ANGLES, EAVE STRUTS, OR MEMBERS AROUND OPENINGS AND PENETRATIONS WITH 5/8 " DIAMETER PUDDLE WELDS IN THE BOTTOM OF THE FLUTES AT 12" OC UNLESS NOTED OTHERWISE.
4. CONCRETE SLAB SHALL BE CONSTRUCTED TO THE UNIFORM TOTAL SLAB THICKNESS SPECIFIED, EVEN IF BEAMS OR DECK STRUCTURE DEFLECTS DURING CONCRETE POUR. MAXIMUM LOCAL THICKNESS OVERAGE NOT TO EXCEED 1/2"
5. PROVIDE 1 1/2" COVER FROM TOP OF SLAB TO WELDED WIRE REINFORCEMENT. SET WWR ON CHAIRS (OR OTHER SUITABLE SUPPORT ACCESSORY). DO NOT LIFT INTO PLACE DURING CONCRETE POUR.
6. ANY FINISHING OR OTHER CONSTRUCTION EQUIPMENT MAY NOT EXCEED THE DESIGN UNIFORM LIVE LOAD OF THE FLOOR SYSTEM SHOWN IN THE DESIGN CRITERIA.

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ISSUANCE
10/13/2026 BIDS

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23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
J. LOEW
DRAWN BY
L. DE LA CRUZ VERDURA
CHECKED BY
E. FLANNERY

DESIGN CRITERIA AND SCHEDULES
S002

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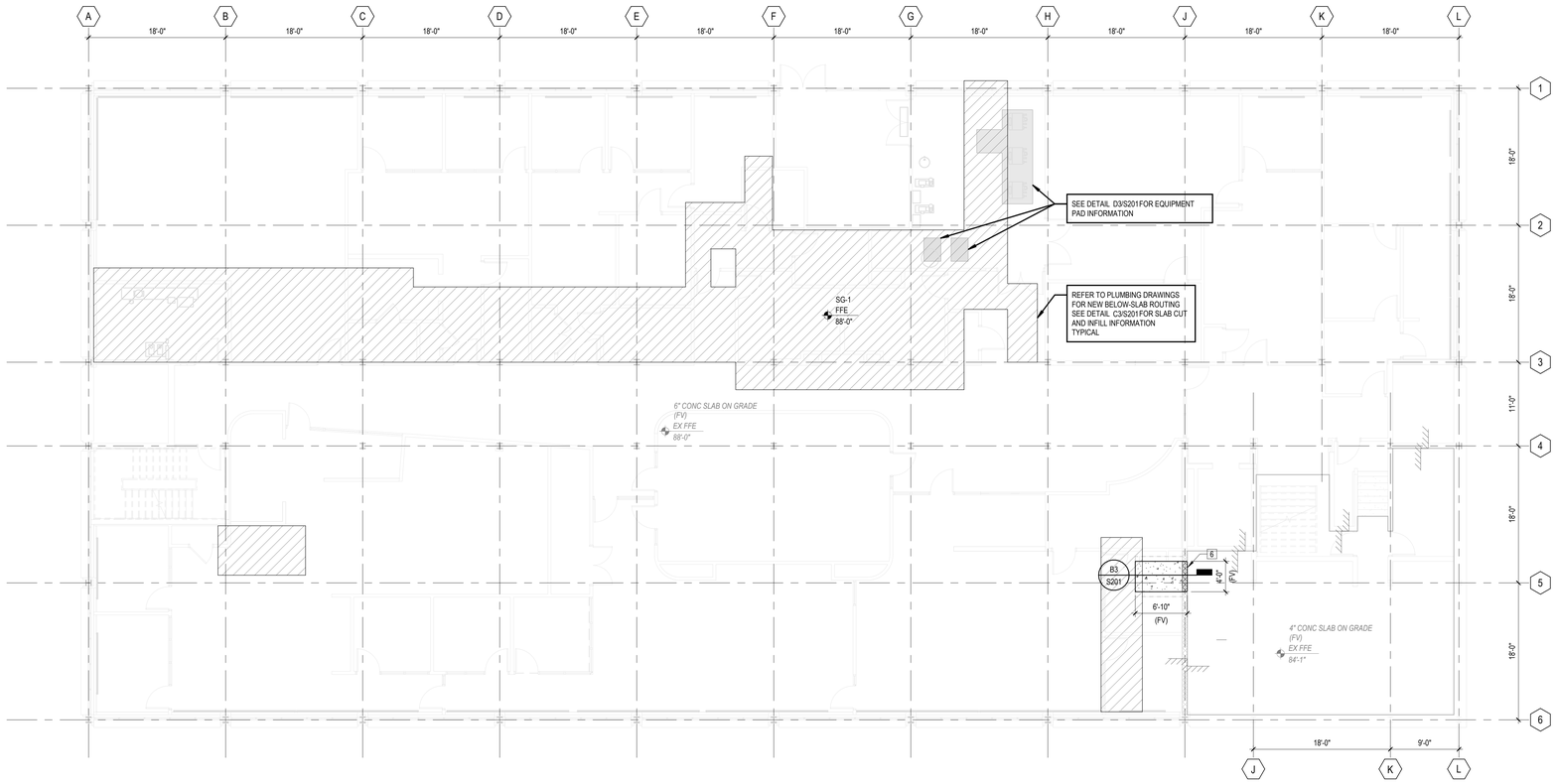
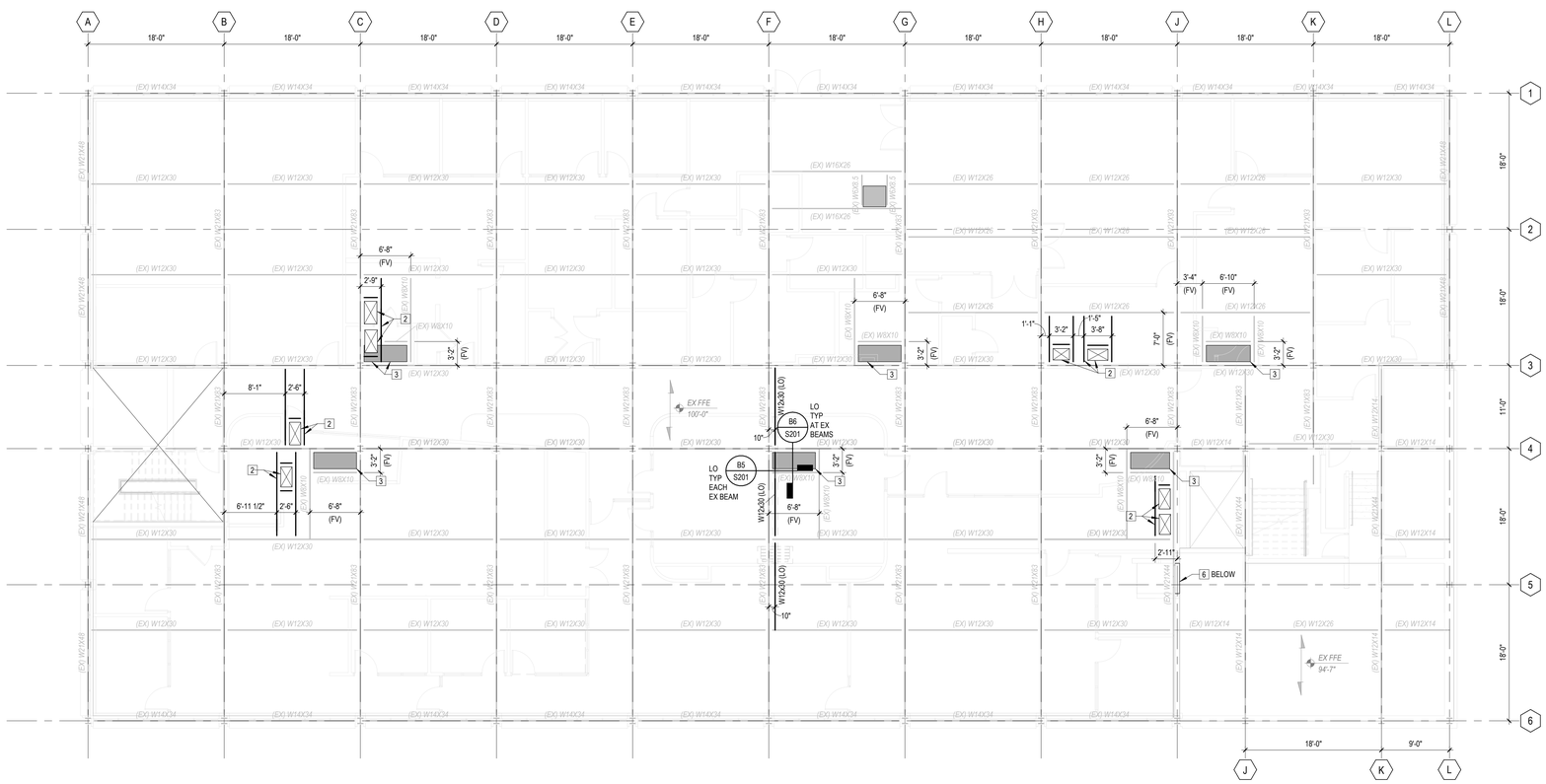


FOUNDATION PLAN

1/8" = 1'-0"



SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

KEYNOTE LEGEND

#	NOTE
1	LIGHT GRAY SHADED REGION INDICATES EXTENTS OF OLD PENTHOUSE. SEE ARCH FOR DEMOLITION DIRECTION.
2	SAW-CUT NEW OPENING IN EXISTING SLAB (DO NOT OVERCUT CORNERS) FRAME WITH W8X18 BEAMS UNLESS NOTED OTHERWISE. SEE DETAIL A1/S201.
3	EXISTING OPENING TO BE INFILLED SEE DETAIL E1/S201.
4	NEW OPENING FOR MECHANICAL EQUIPMENT. SEE DETAIL B1/S201. VERIFY OPENING SIZE WITH EQUIPMENT MECHANICAL CONTRACTOR.
5	ROOF INFILL AT EXISTING OPENINGS. SEE DETAIL C1/S201.
6	INFILL EXISTING WALL OPENING WITH 8" CMU TO MATCH EXISTING. TOOTH IN EACH SIDE. PROVIDE #5 VERT REINFORCEMENT IN GROUTED CELLS @ 32" OC MAX. SEE DETAIL B3/S201 FOR BEARING AND DOWELING REQUIREMENTS AT STAIR INFILL.
7	FIELD VERIFY THAT W24 GIRDER IS ATTACHED TO COLUMN WITH SHEAR TAB CONNECTION WITH (4) 3/4" ⌀ BOLTS MINIMUM. IF NOT, CONTACT SEOR FOR EXISTING GIRDER CONNECTION REINFORCEMENT WITH SUPPLEMENTARY ANGLE.

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PROJECT MANAGER
T. FREY
PROFESSIONAL
J. LOEW
DRAWN BY
L. DE LA CRUZ VERDURA
CHECKED BY
E. FLANNERY

FOUNDATION & FRAMING PLANS
S101

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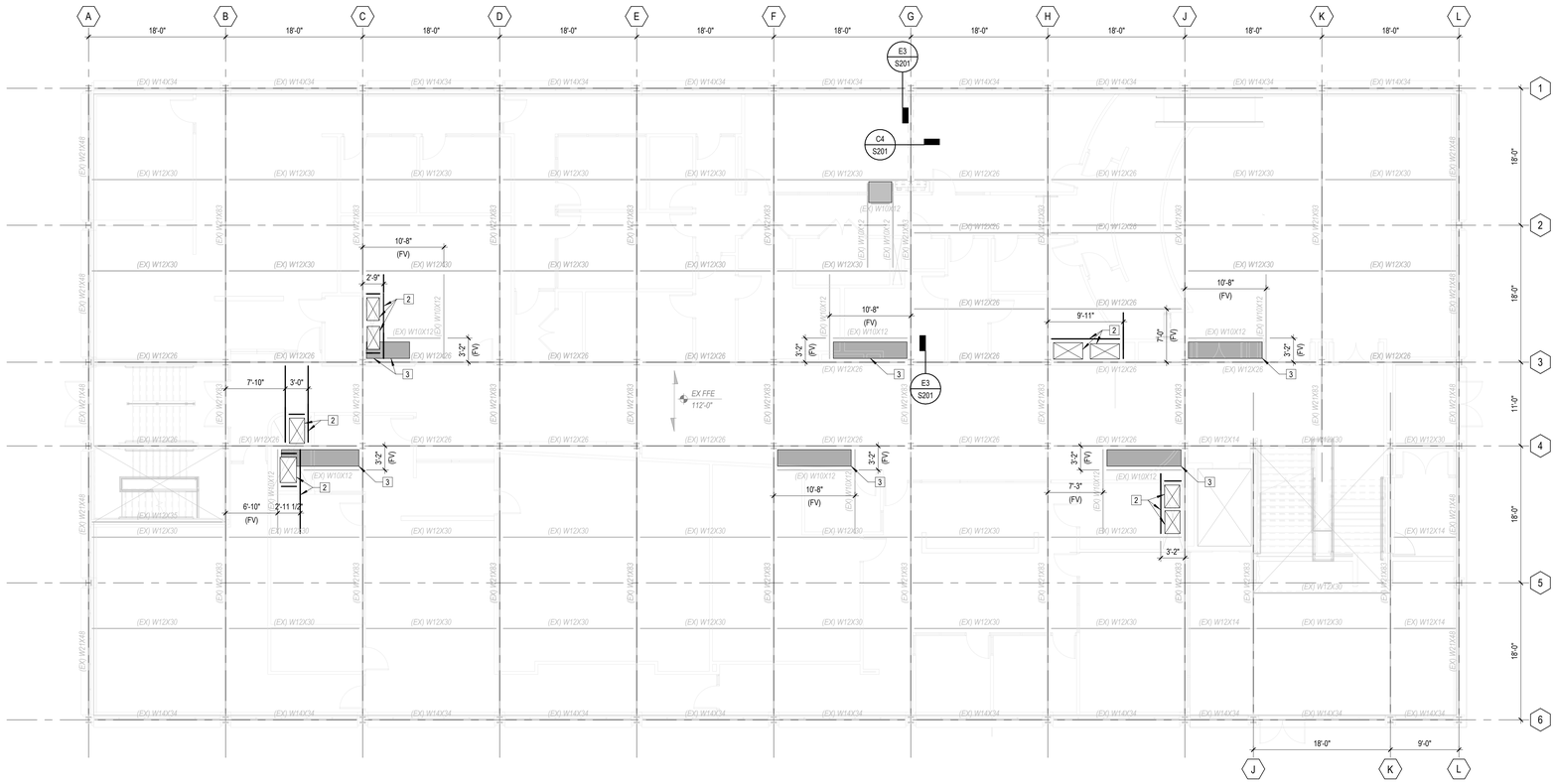
A B C D E F G H J K L
18'-0"
1 2 3 4 5 6
11'-0"
9'-0"
(EX) W14X34
(EX) W12X30
(EX) W12X26
(EX) W12X14
(EX) W10X12
(EX) W12X35
(EX) W12X48
(EX) W12X53
(EX) W12X65
(EX) W12X22
(EX) W12X19
(EX) W8X10
(EX) W8X31
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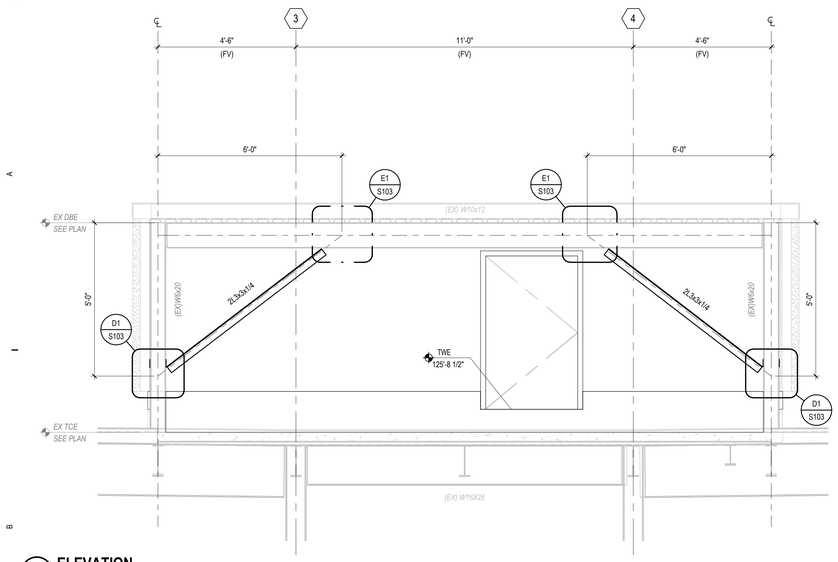
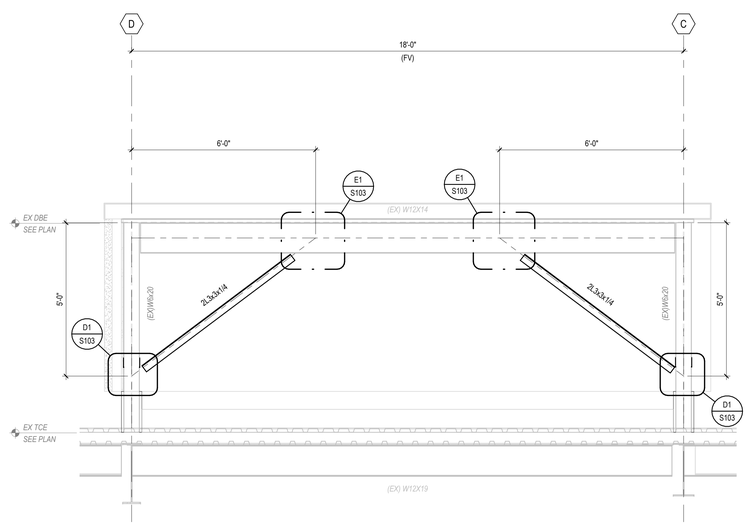
(EX)



B7 ELEVATION
1/2" = 1'-0"



B4 ELEVATION
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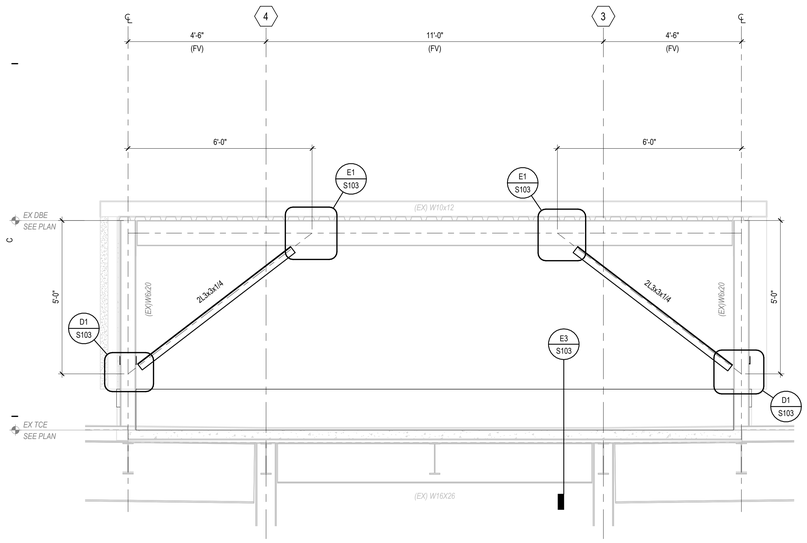
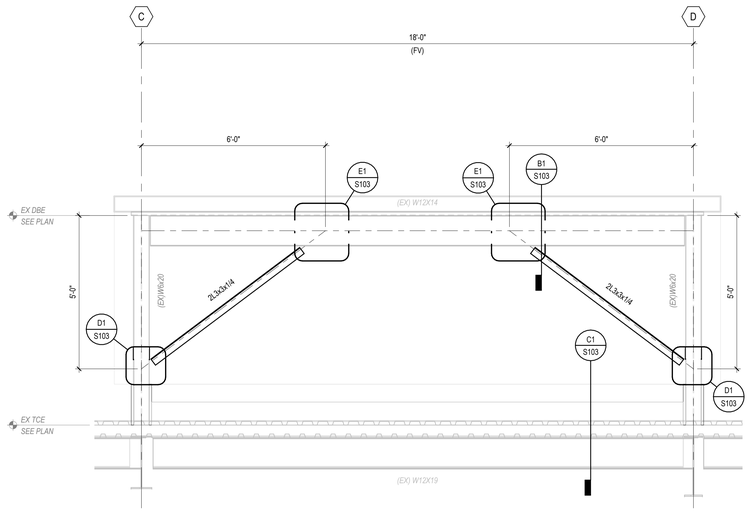
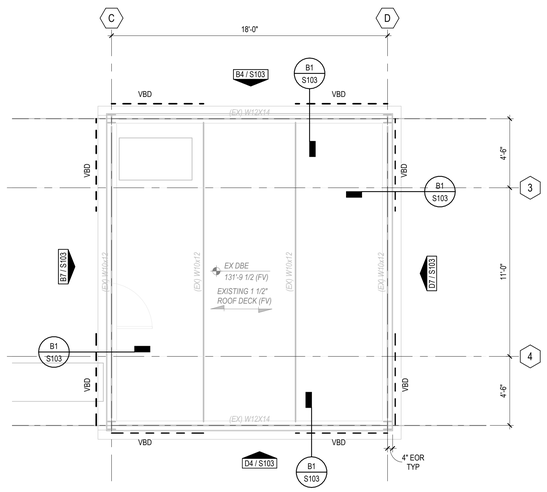


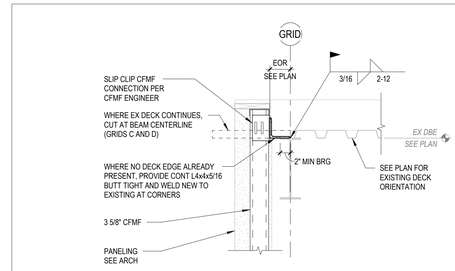
D7 ELEVATION
1/2" = 1'-0"



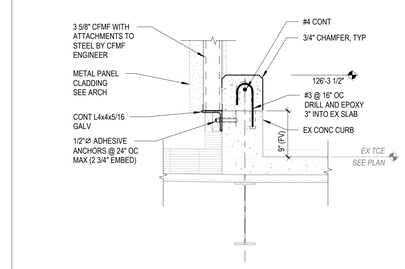
D4 ELEVATION
1/2" = 1'-0"



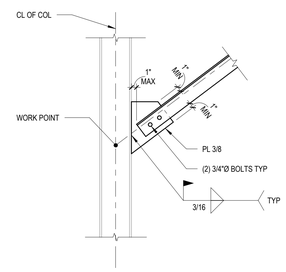
HIGH ROOF FRAMING PLAN
1/4" = 1'-0"



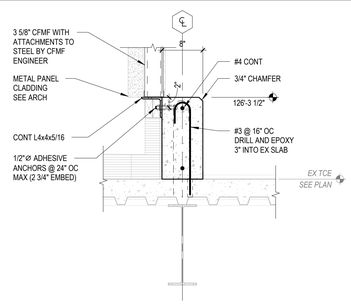
B1 DETAIL
1" = 1'-0"



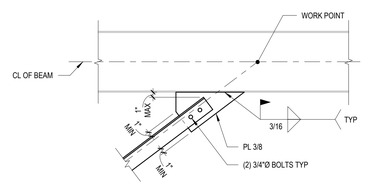
C1 DETAIL
1" = 1'-0"



D1 DETAIL
NOT TO SCALE



E3 DETAIL
1" = 1'-0"



E1 DETAIL
NOT TO SCALE

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CHECKED BY
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HIGH ROOF FRAMING PLAN
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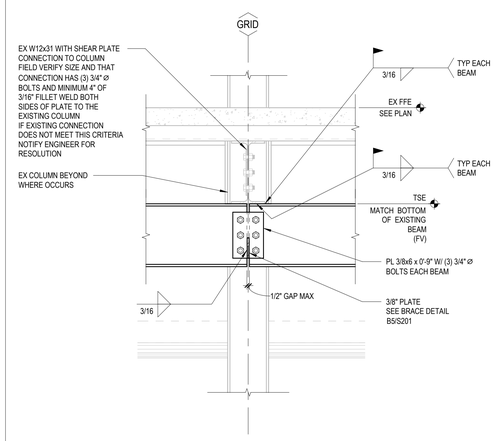
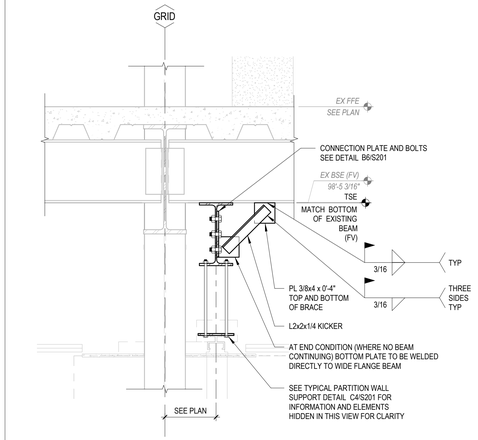
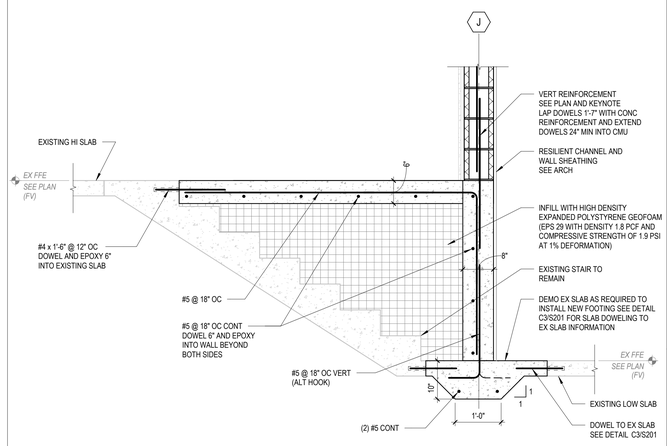


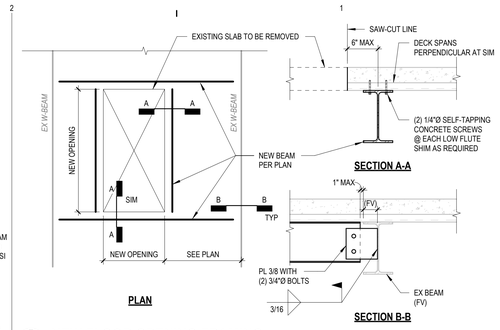
B6 DETAIL
1" = 1'-0"



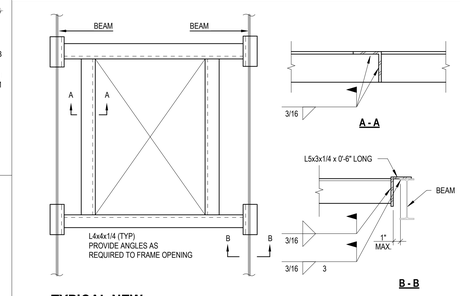
B5 DETAIL
1" = 1'-0"



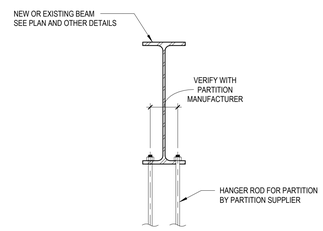
B3 DETAIL
3/4" = 1'-0"



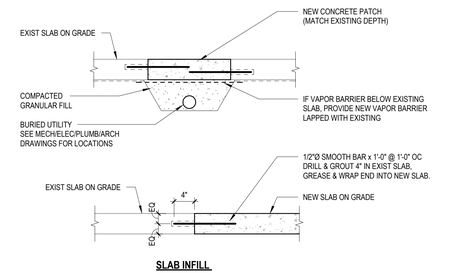
A1 NEW FLOOR OPENING FRAMING
NOT TO SCALE



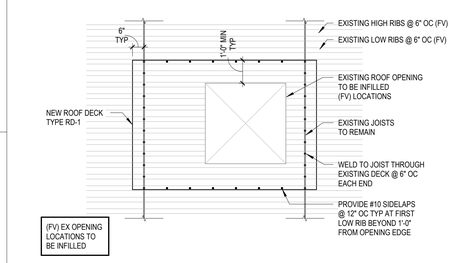
B1 TYPICAL NEW ROOF OPENING AT EXISTING STRUCTURE
NOT TO SCALE



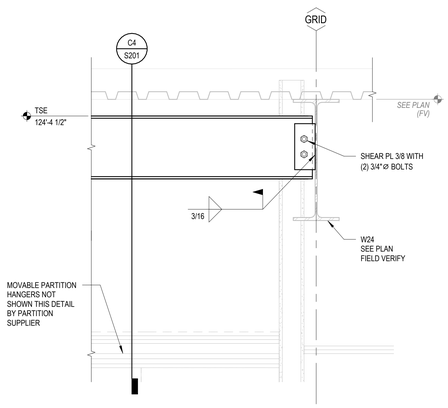
C4 TYPICAL PARTITION WALL SUPPORT
NOT TO SCALE



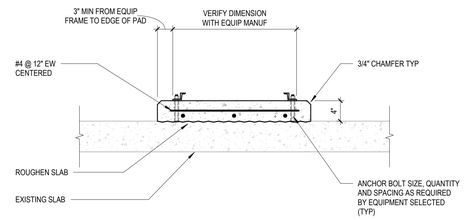
C3 TYPICAL NEW SLAB CONNECTION TO EXISTING SLAB
NOT TO SCALE



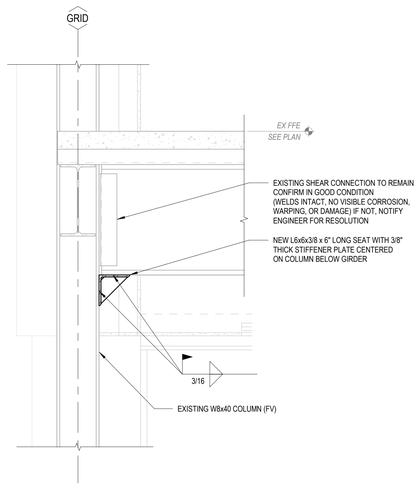
C1 TYPICAL ROOF INFILL DETAIL
NOT TO SCALE



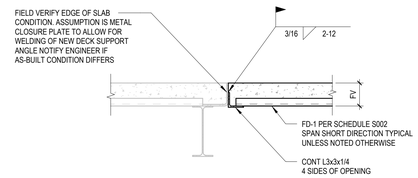
D4 DETAIL
1" = 1'-0"



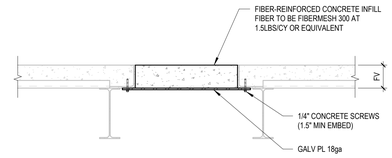
D3 TYPICAL SLAB ON GRADE EQUIPMENT BASE
NOT TO SCALE



E3 DETAIL
1" = 1'-0"



TYPICAL SLAB INFILL AT EXISTING STEEL FRAMED STRUCTURE
(OPENING LARGER THAN 1'-0" SQ)



TYPICAL SLAB INFILL AT EXISTING STEEL FRAMED STRUCTURE
(OPENING 1'-0" SQ AND SMALLER)

E1 TYPICAL FLOOR INFILL
NOT TO SCALE

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
J. LOEW
DRAWN BY
L. DE LA CRUZ VERDURA
CHECKED BY
E. FLANNERY

DETAILS
S201

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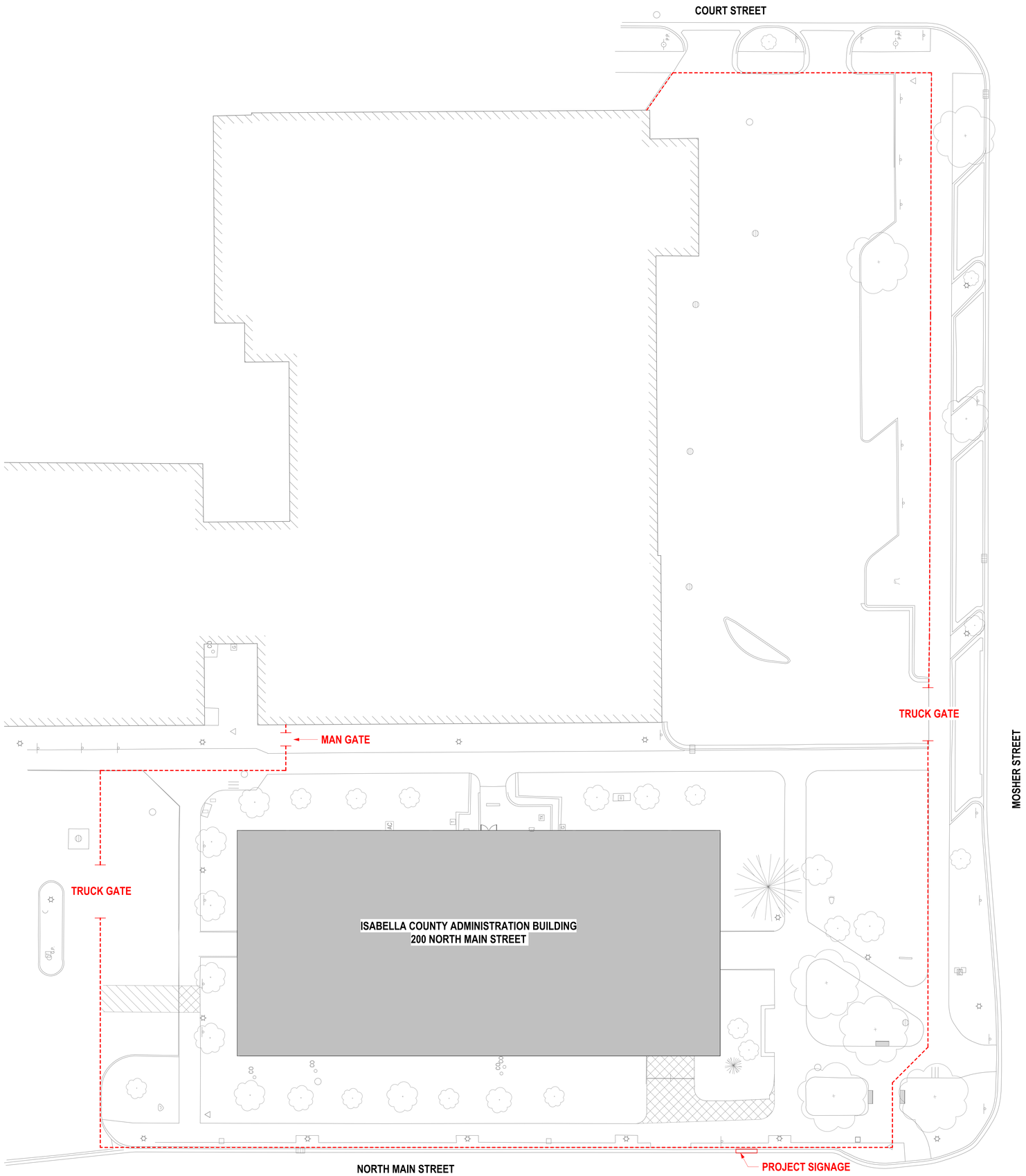

ARCHITECTURAL SITEPLAN
1/16" = 1'-0"

LOGISTICS PLAN LEGEND

- - - - TEMPORARY CONSTRUCTION SECURITY FENCE

LOGISTICS NOTES

- CONSTRUCTION USE INSIDE FENCE:
  1. TEMPORARY FACILITIES
  2. STORAGE STAGING
  3. CONSTRUCTION PARKING
- SNOW REMOVAL BY CONTRACTOR
- ADDITIONAL CONSTRUCTION PARKING AVAILABLE AT NEARBY LOT AS REQUIRED. COORDINATE USE WITH OWNER.

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23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
R. RACLAWSKI
CHECKED BY
D. SNYDER

SITE LOGISTICS PLAN
AS101

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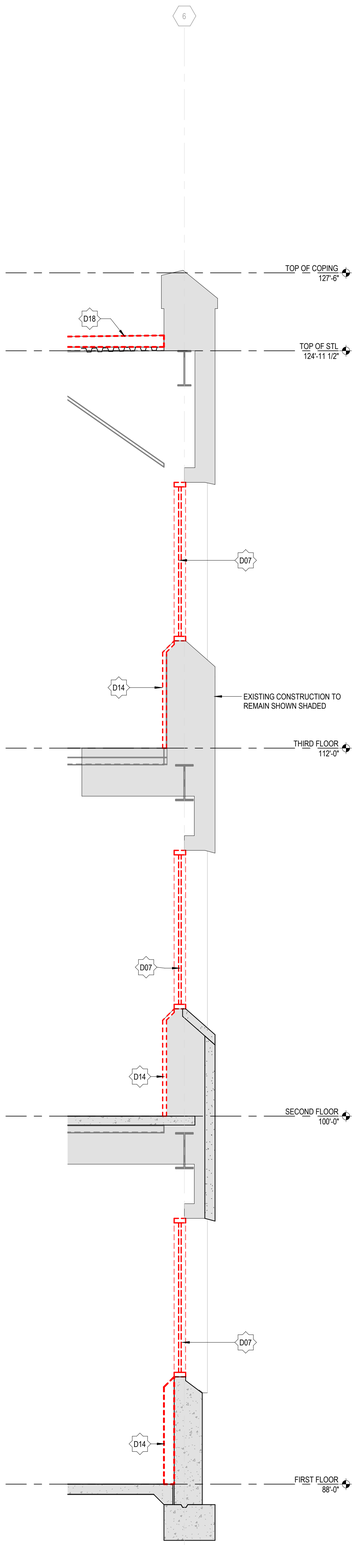
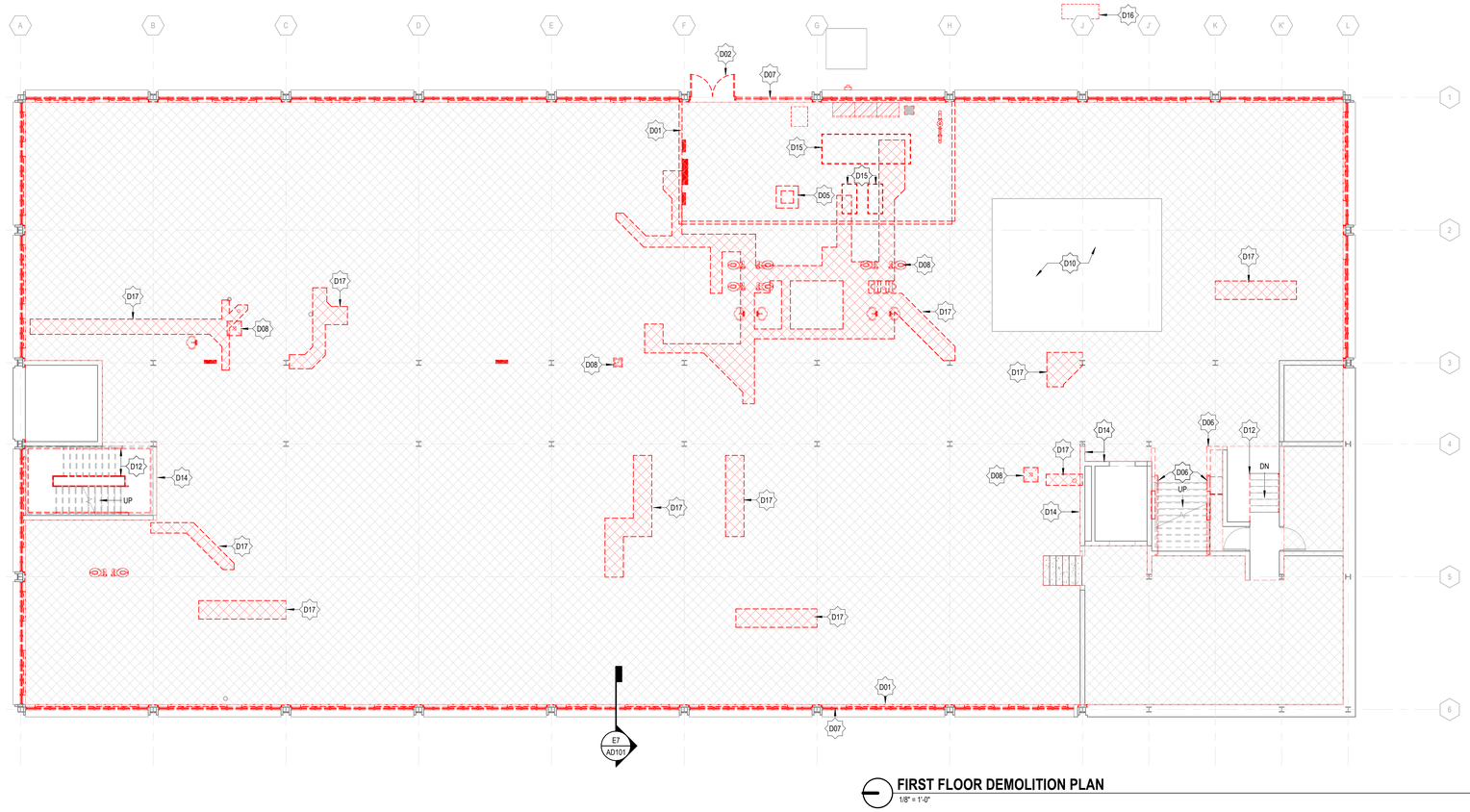
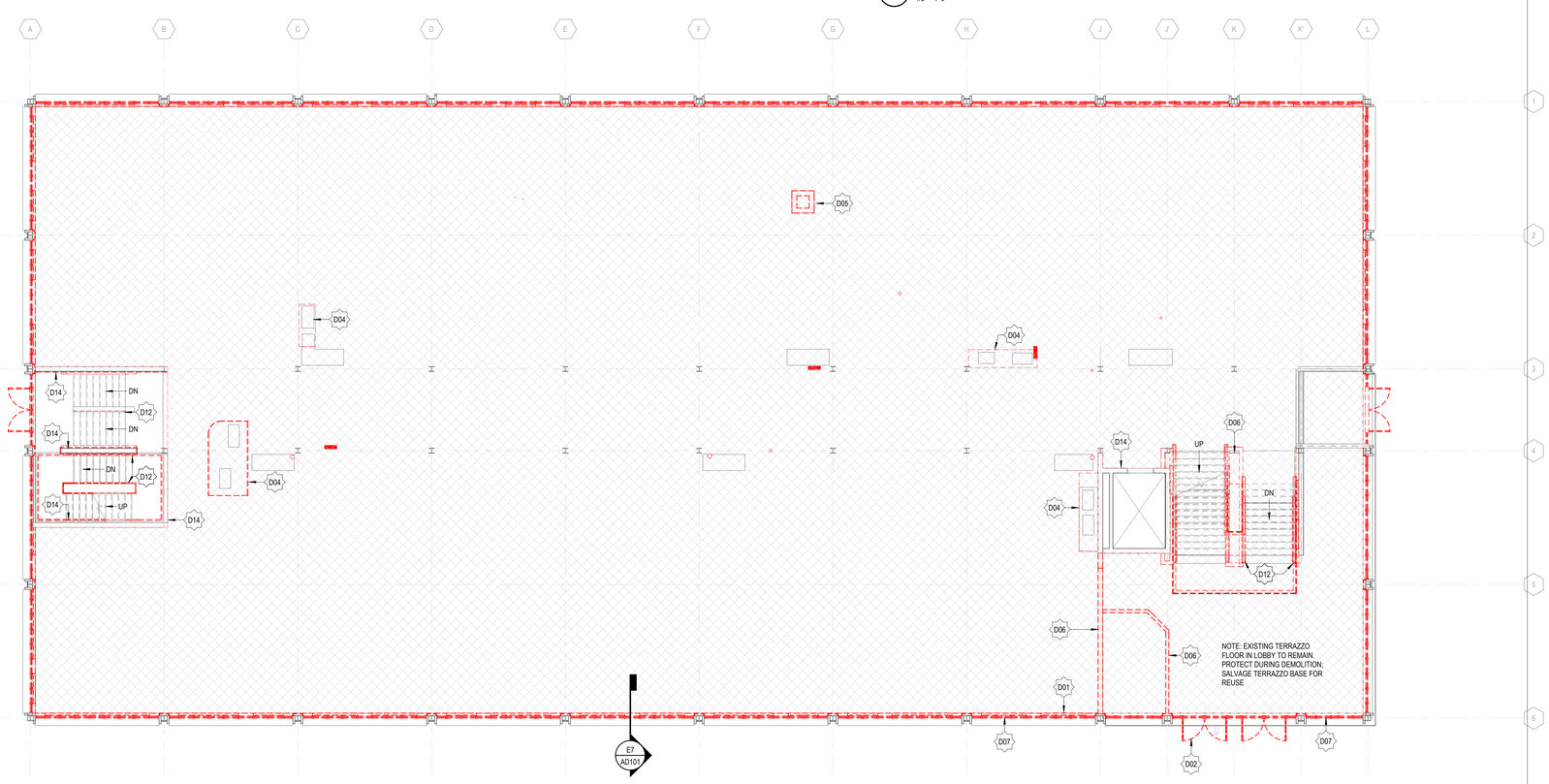
SITE LOGISTICS PLAN



E7 DEMOLITION WALL SECTION
1/2" = 1'-0"



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



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

DEMOLITION NOTES AND LEGEND

1. EXISTING BUILDING CONDITION BASED ON OWNER PROVIDED DRAWINGS AND LIMITED FIELD VERIFICATION. VERIFY EXACT CONDITIONS IN FIELD. SHOULD DISCREPANCIES OCCUR, NOTIFY ARCHITECT FOR CLARIFICATIONS.
2. BEGINNING WORK INDICATES THAT THE CONTRACTOR HAS ACCEPTED AND VERIFIED EXISTING CONDITIONS.
3. COORDINATE DEMOLITION WITH ALL CONTRACTORS WORKING IN AREAS BEING RENOVATED.
4. DURING DEMOLITION, PROTECT ALL ADJACENT CONSTRUCTION TO REMAIN.
5. ASBESTOS MAY BE PRESENT IN THE EXISTING SPANDRELITE PANELS AND SEALANT AT EXTERIOR WINDOWS. ANY ASBESTOS CONTAINING MATERIALS THAT ARE ENCOUNTERED ARE TO BE REMOVED BY THE OWNER, AND DEMOLITION CONTRACTOR TO COORDINATE WITH OWNER'S ABATEMENT CONTRACTOR.
6. REFER TO MECHANICAL, AND ELECTRICAL DRAWINGS FOR ITEMS TO BE REMOVED NOT SHOWN HERE.
7. COORDINATE THE RETURN AND STORAGE OF ALL ITEMS DESIGNATED AS SALVAGE WITH OWNER.
8. COORDINATE DEMOLITION OF ALL WALLS OR PORTIONS OF WALLS FOR NEW OPENINGS WITH STRUCTURAL DOCUMENTS AND EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR SHORING ALL STRUCTURE SUPPORTED BY BEARING WALLS PRIOR TO REMOVAL.
9. ALL EXISTING FLOOR PENETRATIONS TO BE FIRESTOPPED.
10. HATCHED AREA(S) OF FULL NON-STRUCTURAL DEMOLITION (AS INDICATED LEGEND BELOW): REMOVE ALL WALLS, DOORS, FLOORING, CEILINGS, FIXTURES, MILLWORK, EQUIPMENT, ETC. UNLESS NOTED OTHERWISE. OWNER TO REVIEW SALVAGE ITEMS FOR POTENTIAL RE-USE.

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE REMOVED

FULL INTERIOR, NON - STRUCTURAL DEMOLITION (SEE GENERAL NOTE ABOVE)

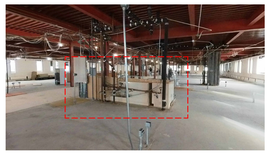
AREAS OF SAW-CUTTING; REFER TO MECHANICAL/ELECTRICAL/PLUMBING PLANS

DEMOLITION PLAN KEYNOTES

NUMBER	NOTE
D01	REMOVE WALL OR PORTION OF WALL AS SHOWN
D02	REMOVE DOOR, FRAME AND HARDWARE
D04	REMOVE PORTION OF SLAB; REFER TO STRUCTURAL DRAWINGS
D05	REMOVE EXISTING CHIMNEY
D06	REMOVE EXISTING PARTIAL HEIGHT WALL AND STEEL FRAMING AT EXISTING HANDRAILS. GRIND STEEL SMOOTH AND PATCH HOLES TO PREP FOR NEW CABLE RAILING
D07	REMOVE STOREFRONT/CURTAIN WALL
D08	REMOVE ALL MISCELLANEOUS PLUMBING FIXTURE(S)
D10	REMOVE HIGH-DENSITY STORAGE RACK AND TRACK SYSTEM, SALVAGE AND STORE FOR RELOCATION
D12	REMOVE EXISTING RAILING
D14	REMOVE EXISTING PLASTER/FURRING
D15	REMOVE RAISED CONCRETE SLABS AND/OR CURBS
D17	SAWCUT CONCRETE FOR NEW PLUMBING / ELEC / UTILITIES
D18	REMOVE EXISTING ROOF MEMBRANE AND INSULATION

MISCELLANEOUS CASEWORK TO BE REMOVED

FIRST FLOOR



THIRD FLOOR

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARRIOS
CHECKED BY
D. SNYDER

DEMOLITION PLANS
AD101

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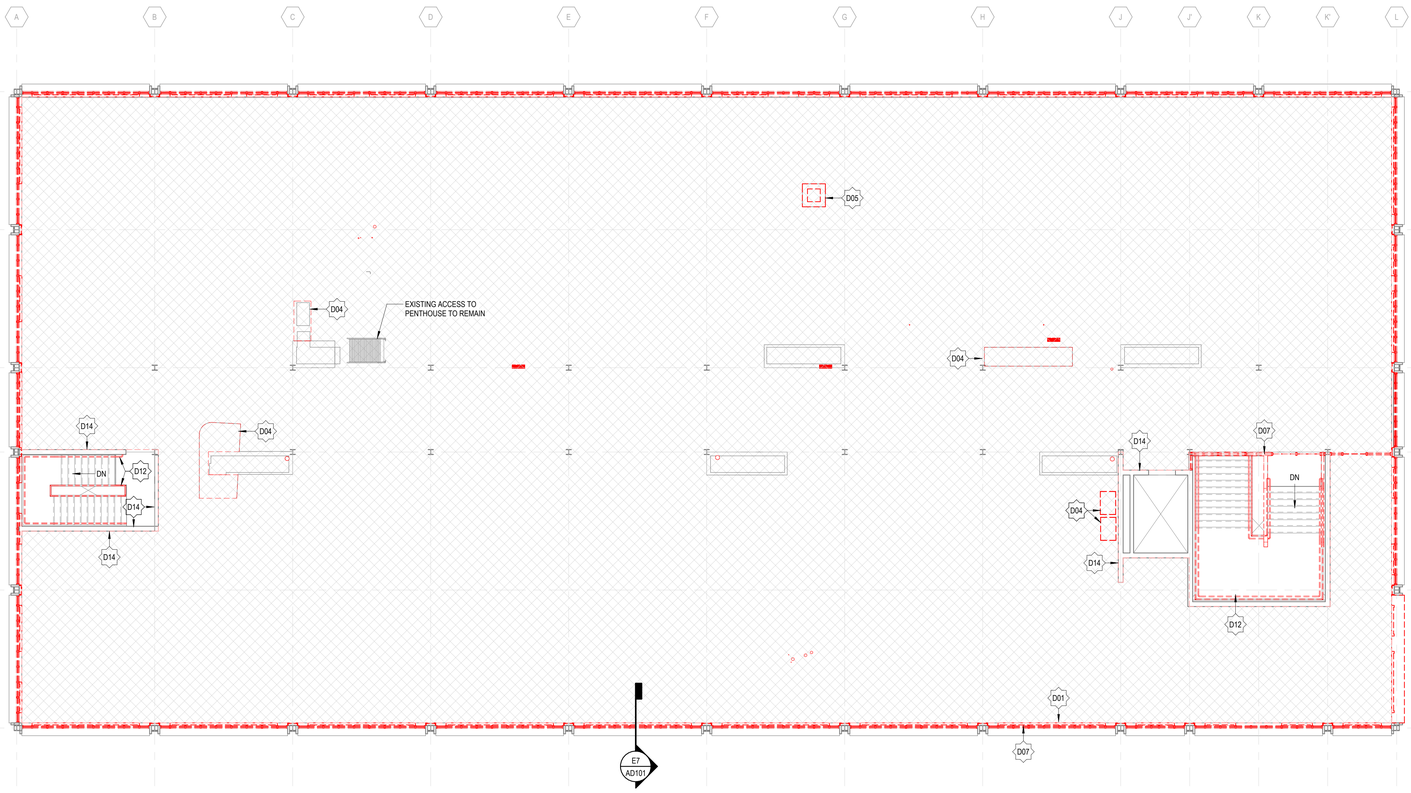
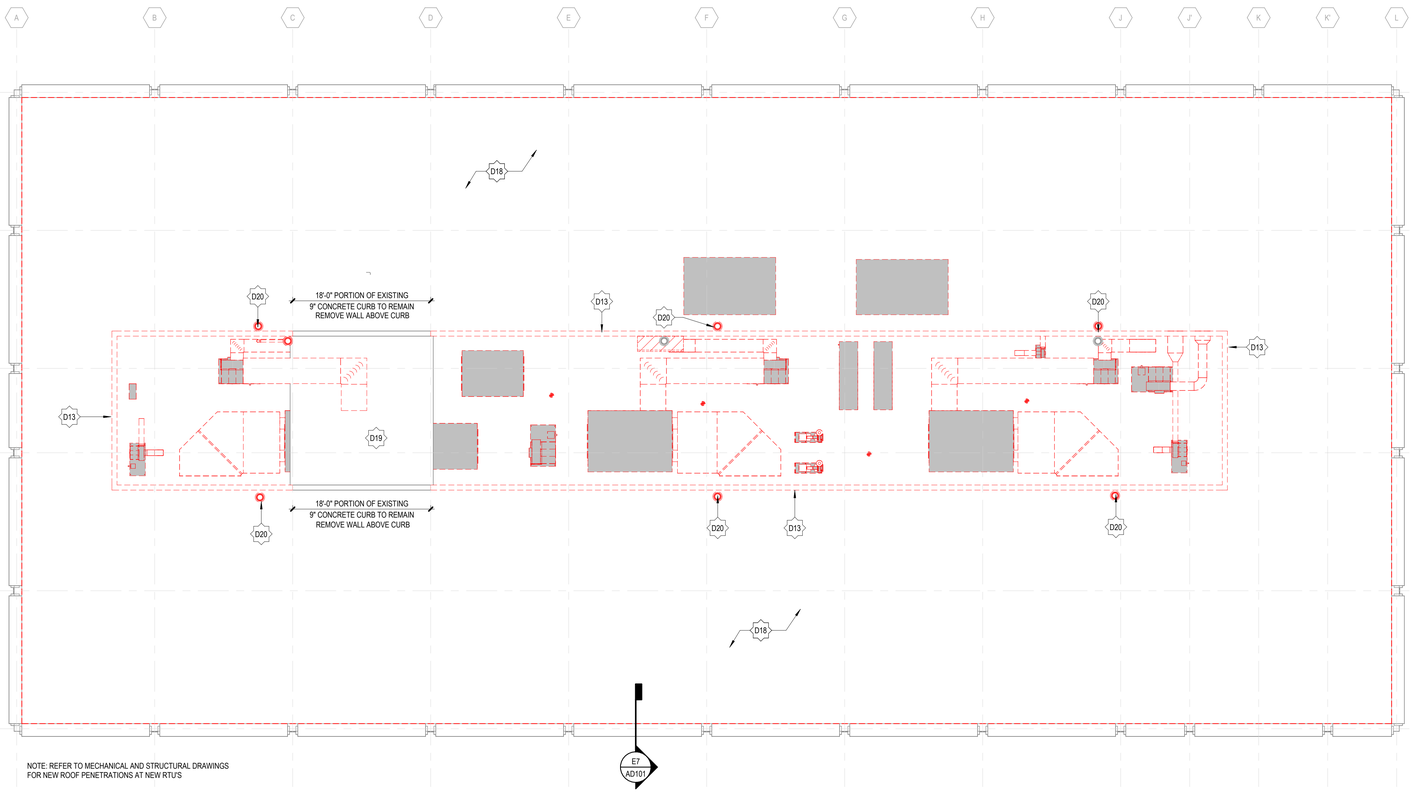


THIRD FLOOR DEMOLITION PLAN

1/8" = 1'-0"



NOTE: REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR NEW ROOF PENETRATIONS AT NEW RTU'S

ROOF DEMOLITION PLAN

1/8" = 1'-0"

DEMOLITION NOTES AND LEGEND

1. EXISTING BUILDING CONDITION BASED ON OWNER PROVIDED DRAWINGS AND LIMITED FIELD VERIFICATION. VERIFY EXACT CONDITIONS IN FIELD. SHOULD DISCREPANCIES OCCUR, NOTIFY ARCHITECT FOR CLARIFICATIONS.
2. BEGINNING WORK INDICATES THAT THE CONTRACTOR HAS ACCEPTED AND VERIFIED EXISTING CONDITIONS.
3. COORDINATE DEMOLITION WITH ALL CONTRACTORS WORKING IN AREAS BEING RENOVATED.
4. DURING DEMOLITION, PROTECT ALL ADJACENT CONSTRUCTION TO REMAIN.
5. ASBESTOS MAY BE PRESENT IN THE EXISTING SPANDRELITE PANELS AND SEALANT AT EXTERIOR WINDOWS. ANY ASBESTOS CONTAINING MATERIALS THAT ARE ENCOUNTERED ARE TO BE REMOVED BY THE OWNER, AND DEMOLITION CONTRACTOR TO COORDINATE WITH OWNER'S ABATEMENT CONTRACTOR.
6. REFER TO MECHANICAL, AND ELECTRICAL DRAWINGS FOR ITEMS TO BE REMOVED NOT SHOWN HERE.
7. COORDINATE THE RETURN AND STORAGE OF ALL ITEMS DESIGNATED AS SALVAGE WITH OWNER.
8. COORDINATE DEMOLITION OF ALL WALLS OR PORTIONS OF WALLS FOR NEW OPENINGS WITH STRUCTURAL DOCUMENTS AND EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR SHORING ALL STRUCTURE SUPPORTED BY BEARING WALLS PRIOR TO REMOVAL.
9. ALL EXISTING FLOOR PENETRATIONS TO BE FIRESTOPPED.
10. HATCHED AREA(S) OF FULL NON-STRUCTURAL DEMOLITION (AS INDICATED LEGEND BELOW): REMOVE ALL WALLS, DOORS, FLOORING, CEILINGS, FIXTURES, MILLWORK, EQUIPMENT, ETC. UNLESS NOTED OTHERWISE. OWNER TO REVIEW SALVAGE ITEMS FOR POTENTIAL RE-USE.

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE REMOVED

FULL INTERIOR, NON - STRUCTURAL DEMOLITION (SEE GENERAL NOTE ABOVE)

AREAS OF SAW-CUTTING; REFER TO MECHANICAL/ELECTRICAL/PLUMBING PLANS

DEMOLITION PLAN KEYNOTES

NUMBER	NOTE
D01	REMOVE WALL OR PORTION OF WALL AS SHOWN
D04	REMOVE PORTION OF SLAB; REFER TO STRUCTURAL DRAWINGS
D05	REMOVE EXISTING CHIMNEY
D07	REMOVE STOREFRONT/CURTAIN WALL
D12	REMOVE EXISTING RAILING
D13	REMOVE ALL OF EXISTING PENTHOUSE CONSTRUCTION, INCLUDING ROOF, WALLS AND 9" CONCRETE CURB; EXISTING CONCRETE SLAB TO REMAIN. SEE PLAN FOR LOCATION OF CURB TO REMAIN.
D14	REMOVE EXISTING PLASTER/FURRING
D18	REMOVE EXISTING ROOF MEMBRANE AND INSULATION
D19	ALL EXISTING EQUIPMENT OPENINGS/PENETRATIONS TO BE PATCHED; REFER TO STRUCTURAL DRAWINGS
D20	EXISTING ROOF DRAINS TO REMAIN; SEE PLUMBING DRAWINGS

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PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARRIOS
CHECKED BY
D. SNYDER

DEMOLITION PLANS

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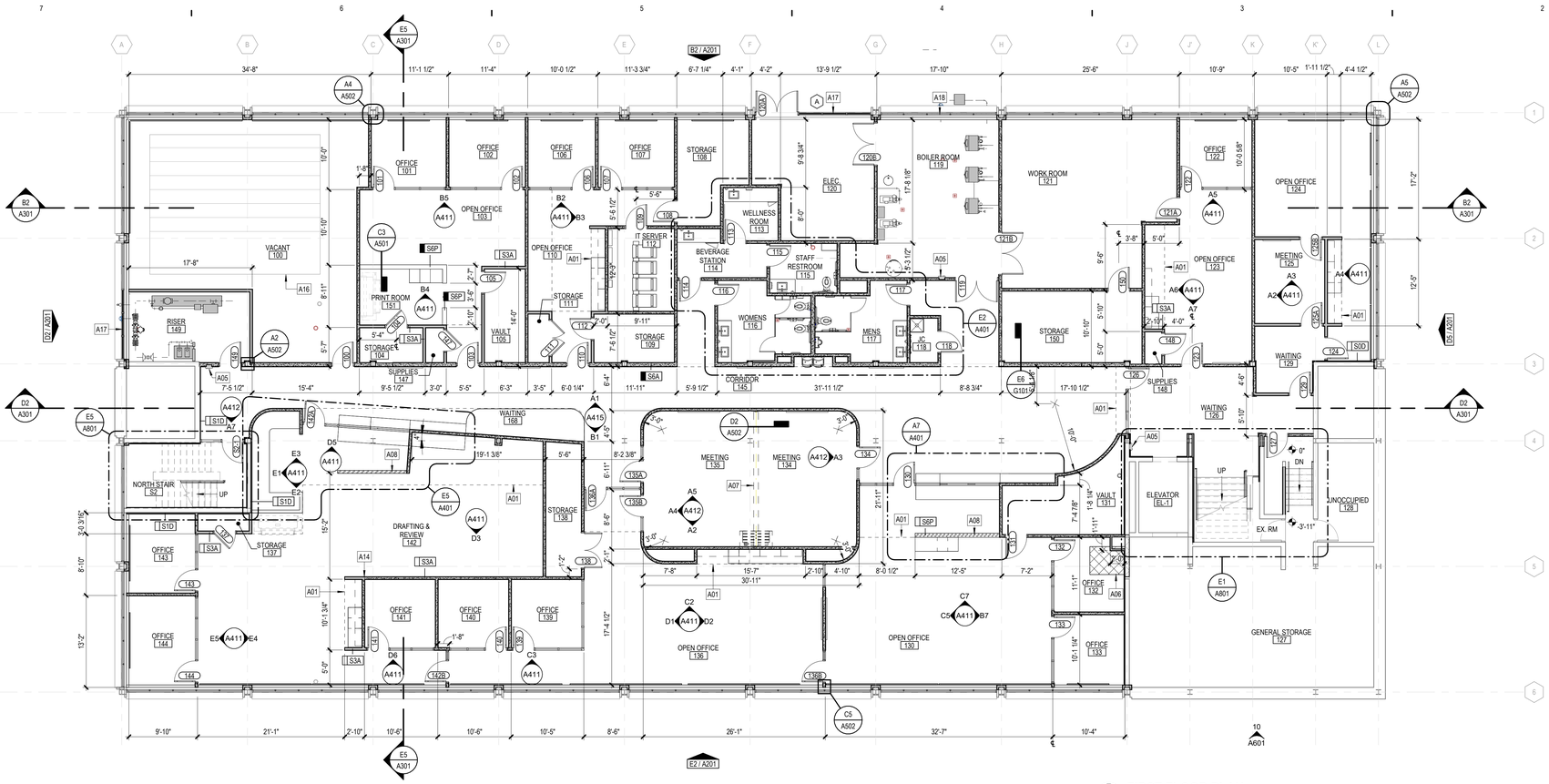
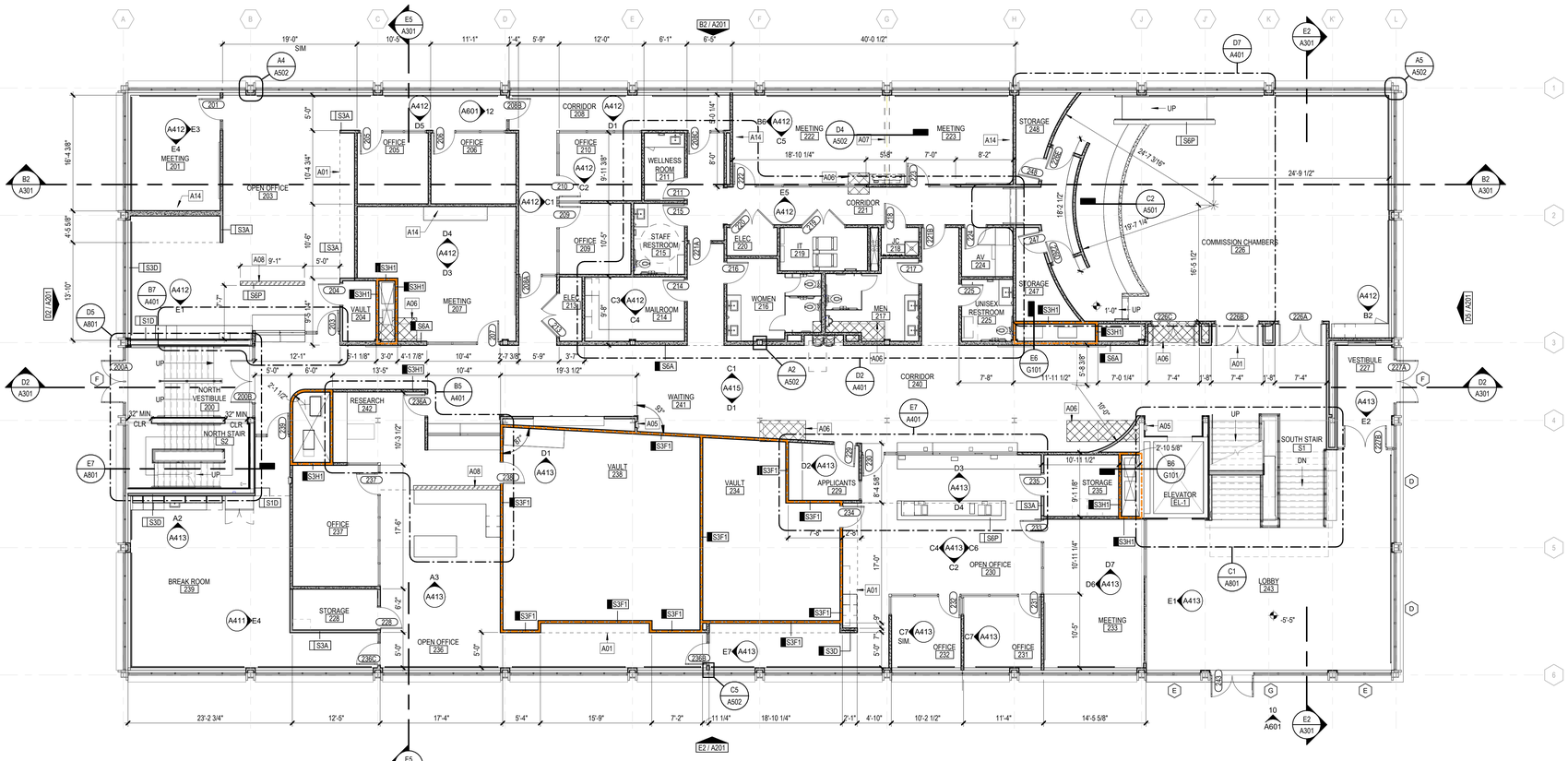


FIRST FLOOR PLAN
1/8" = 1'-0"



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

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. FINISH FLOOR ELEVATION = 94' - 7".
3. EXISTING BUILDING CONDITIONS BASED ON OWNER PROVIDED DRAWINGS AND LIMITED FIELD VERIFICATION. VERIFY EXACT CONDITIONS IN FIELD. SHOULD DISCREPANCIES OCCUR, NOTIFY ARCHITECT FOR CLARIFICATIONS.
4. BEGINNING WORK INDICATES THAT THE CONTRACTOR HAS ACCEPTED AND VERIFIED EXISTING CONDITIONS.
5. REFER TO CODE COMPLIANCE DRAWING(S) FOR LOCATIONS OF RATED ASSEMBLIES AND CODE SUMMARY. ALL EXISTING THROUGH-FLOOR PENETRATIONS TO BE PATCHED AND/OR FIRE STOPPED.
6. ABBREVIATIONS, TYPICAL MOUNTING DIMENSIONS, AND ANNOTATION SYMBOLOGY ARE SHOWN ON GENERAL INFORMATION DRAWINGS.
7. WALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF CONCRETE, FACE OF STUDS, COLUMN CENTERLINE AS SHOWN OR EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE PERPENDICULAR AND PARALLEL, UNLESS NOTED OTHERWISE.
9. PATCH ALL DISTURBED SURFACES WITH MATERIALS TO MATCH ADJACENT SURFACE CONSTRUCTION.
10. PROVIDE APPROVED SMOKE/FIRESTOPPING ASSEMBLIES AT ALL MECHANICAL AND ELECTRICAL PENETRATIONS THROUGH FIRE RATED AND SMOKE RESISTANT PARTITIONS IDENTIFIED ON CODE COMPLIANCE DRAWINGS. ALL EXISTING THROUGH-FLOOR PENETRATIONS TO BE PATCHED AND/OR FIRE STOPPED.
11. OWNER FURNISHED EQUIPMENT IS SHOWN LIGHT DASHED FOR REFERENCE ONLY. REFER TO EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
12. REFER TO INTERIORS FOR FINISHES INCLUDING WALL PROTECTION ITEMS.
13. REFER TO SPECIFICATION SECTION 10 1400 FOR REQUIRED LOCATIONS OF CODE REQUIRED SIGNAGE.

INTERIOR PARTITION TAG LEGEND

CORE MATERIAL
S - STEEL STUDS
W - WOOD STUDS
C - CONCRETE
M - MASONRY
H - CH / SHAFTWALL

ACOUSTICAL INSULATION
PROVIDE ACOUSTICAL INSULATION AT TAGGED LOCATIONS

PARTITION TYPE SUFFIX
REFER TO SCHEDULE BELOW

M12A

CORE SIZE (NOMINAL)

	S	W	C	M	H
0	7/8"				
1	1 5/8"				
2	2 1/2"	2x (flat)			2 1/2"
3	3 5/8"				
4	4"	2x4		4"	4"
5					
6	6"	2x6	6"	6"	6"
7					
8	8" CFMF	2x8	8"	8"	
9					
10			10"	10"	
11					
12			12"	12"	

INTERIOR PARTITION GENERAL NOTES

EXISTING WALL CONSTRUCTION
NEW STUD WALL CONSTRUCTION
NEW MASONRY WALL CONSTRUCTION

1. CONSTRUCT ALL WALLS TIGHT TO DECK ABOVE AND EXTEND INTO DECK FLUTES AND WEBS OF STEEL MEMBERS UNLESS OTHERWISE NOTED.
2. PROVIDE DEFLECTION TRACK AT THE TOP OF ALL INTERIOR NON-BEARING METAL STUD WALLS CAPABLE OF ACCOMMODATING 1" ROOF/FLOOR DEFLECTION. REFER TO DETAILS G6/S101 FOR HEAD OF WALL CONDITION.
3. REFER TO CODE COMPLIANCE PLAN FOR RATED WALL LOCATIONS. FIRE RATED AND SMOKE RESISTANT ASSEMBLIES SHALL BE CONTINUOUS, WITH OTHER PARTITIONS ABUTTING THEM.
4. PROVIDE FIRESTOPPING/ SMOKE SEALANT AT ALL PENETRATIONS THROUGH FIRE RATED AND SMOKE RESISTANT ASSEMBLIES, CORRIDORS, AND FLOORS WITH OCCUPIABLE SPACES ABOVE AND BELOW.
5. PROVIDE ACOUSTICAL SEALANT AT ALL WALLS WITH ACOUSTICAL INSULATION.
6. PROVIDE 5/8" WATER RESISTANT GYPSUM WALLBOARD AT ALL WALLS OF TOILET ROOMS, WALLS RECEIVING TILE, AND WALLS BEHIND AND ADJACENT TO SINKS.
7. PROVIDE 5/8 TILE BACKER AT ALL WALLS OF SHOWER ENCLOSURES.
8. REFER TO STRUCTURAL DRAWINGS FOR MASONRY REINFORCING AND GROUTING.
9. PROVIDE BULLNOSE CONCRETE MASONRY UNITS AT EXPOSED SILLS AND AT ALL INTERIOR EXPOSED VERTICAL CORNERS, INCLUDING WINDOW AND DOOR JAMBS.
10. ALL WALLS ARE TYPE S3A WITH ACOUSTICAL INSULATION UNLESS NOTED OTHERWISE.

INTERIOR PARTITION TYPE SUFFIXES

A	5/8" GYPSUM BOARD ON BOTH SIDES; EXTEND TO DECK (OR HARD CEILING WHERE IT OCCURS)
B	5/8" GYPSUM BOARD ON BOTH SIDES; EXTEND TO 6" ABOVE CEILING (OR HARD CEILING WHERE IT OCCURS)
D	5/8" GYPSUM BOARD ON ROOM SIDE ONLY; EXTEND TO DECK
F1	(1) LAYER 5/8" GYPSUM BOARD ON BOTH SIDES; EXTEND TO DECK ABOVE; 1 HR RATED UL DESIGN #U419
H1	(1) LAYER 5/8" GYPSUM BOARD ON ROOM SIDE, 1" SHAFT LINER TO DECK ABOVE ON OTHER SIDE; 1 HR RATED UL DESIGN #U415-A
P	PARTIAL HEIGHT WALL SAME AS "A", REFER TO DETAIL ON A501
S1	ACOUSTICAL STUD ASSEMBLY WITH SOUND DEADENING GYPSUM BOARD OVER RESILIENT CHANNELS (ONE SIDE) AND ACOUSTICAL SEALANT, TOP AND BOTTOM

FLOOR PLAN LEGEND

INFILLED PORTION OF EXISTING SLAB

NEW 1 HR RATED PARTITION

KEYNOTES

NUMBER	NOTE
A01	EDGE OF CEILING/BULKHEAD ABOVE
A05	SEMI-RECESSED FIRE EXTINGUISHER CABINET
A06	INFILL PORTION OF EXISTING SLAB; REFER TO STRUCTURAL DRAWINGS
A07	FOLDING PARTITIONS; BASIS OF DESIGN: MODERNFOLD ACOUSTI-SEAL
A08	SCREEN SLAT WALL SYSTEM (06 2000)
A14	TV (CFCI) CENTERLINE MOUNTED AT 54" AND PROVIDE BLOCKING IN WALL; REFER TO ICT DRAWINGS
A16	EXISTING FILE STORAGE TO BE RELOCATED; FIELD VERIFY DIMENSIONS
A17	1" GLAZED-IN INSULATED METAL PANELS
A18	SPANDREL GLAZING (08 8000)

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200 N. MAIN STREET
MT. PLEASANT, MI 48858

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARRIOS
CHECKED BY
D. SNYDER

FIRST AND SECOND FLOOR PLAN
A101

24.2.002
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Title: FIRST AND SECOND FLOOR PLAN
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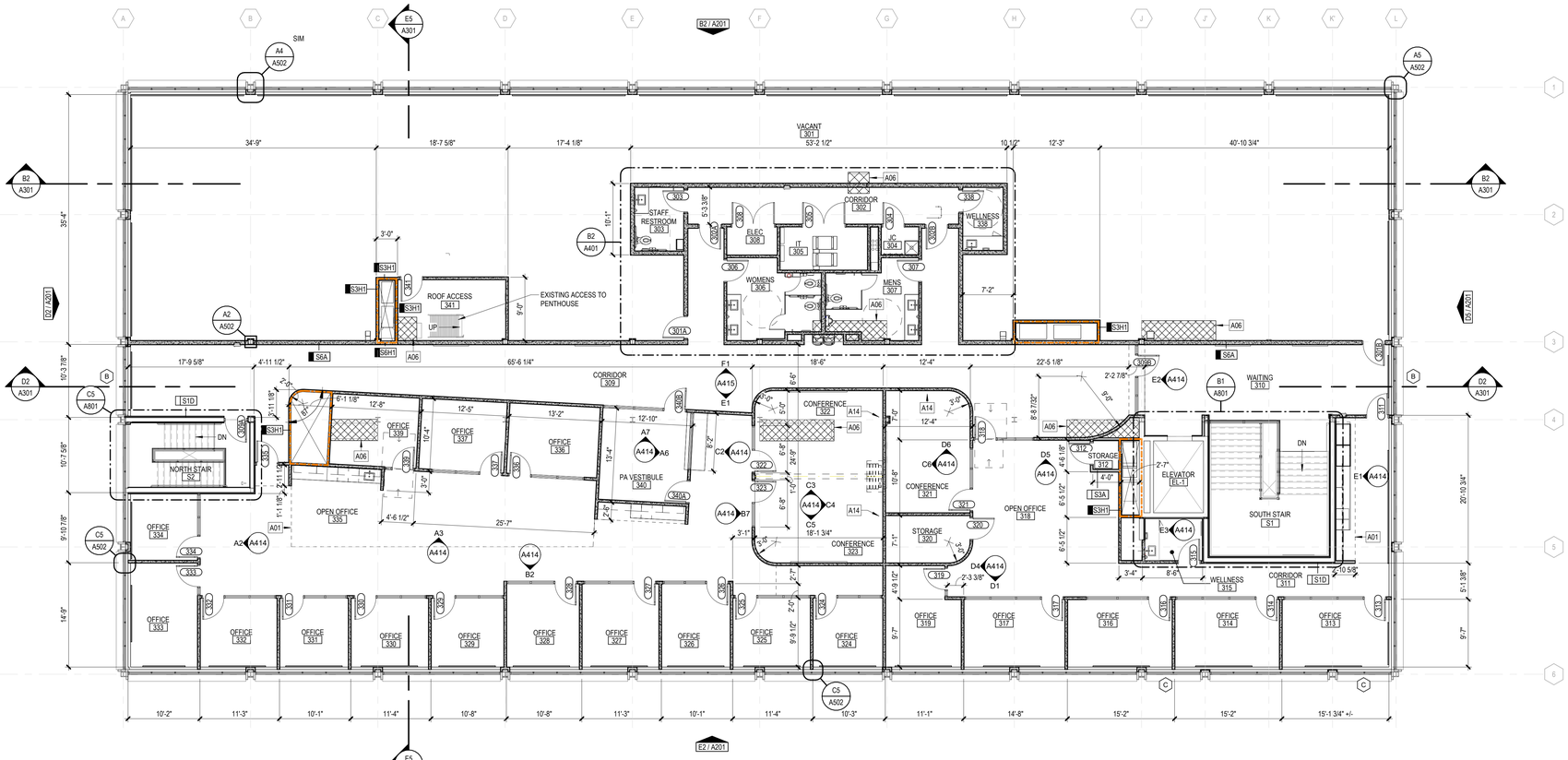
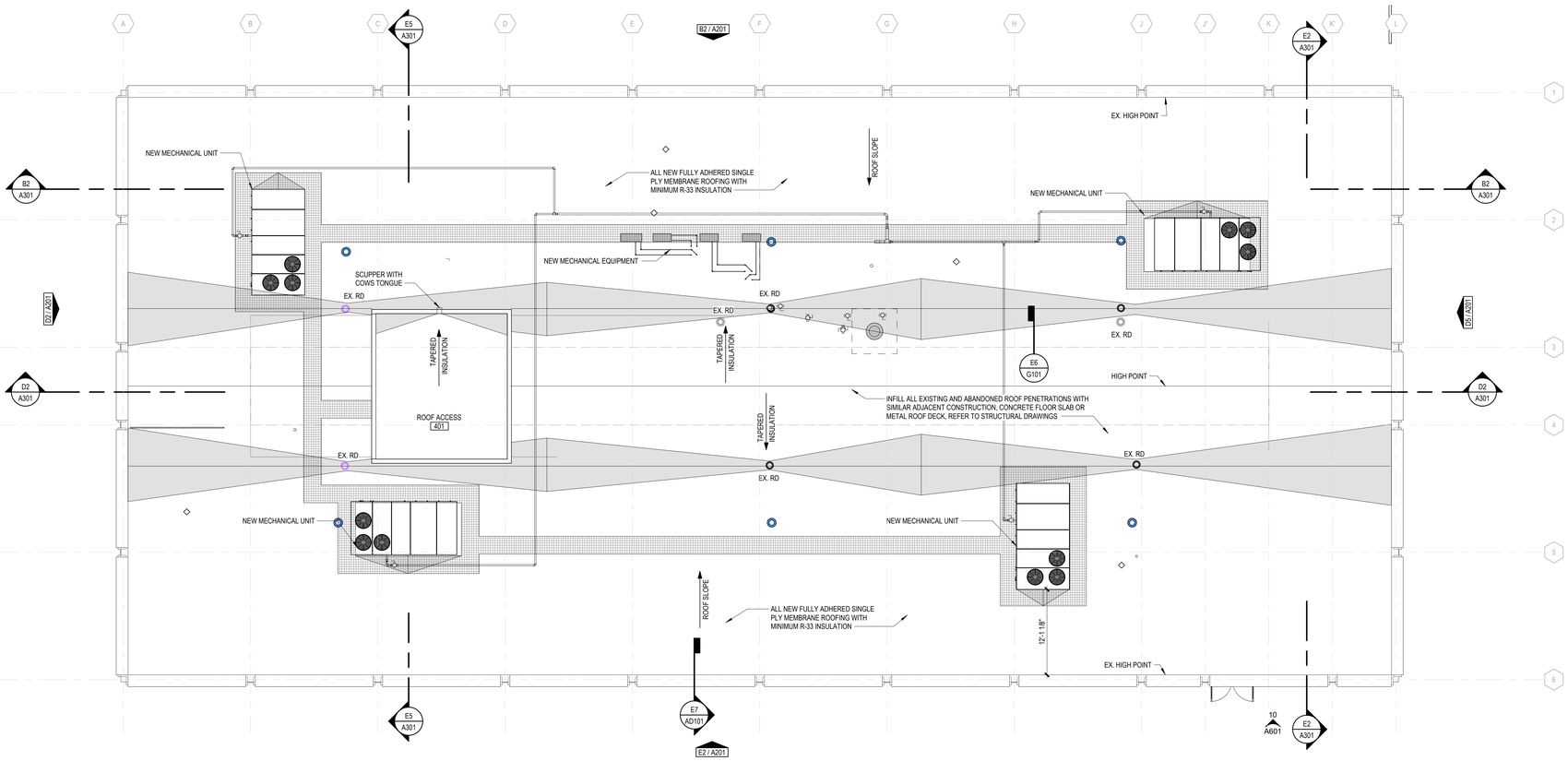


THIRD LEVEL FLOOR PLAN

1/8" = 1'-0"



ROOF PLAN

1/8" = 1'-0"

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. FINISH FLOOR ELEVATION = 94' - 7".
3. EXISTING BUILDING CONDITIONS BASED ON OWNER PROVIDED DRAWINGS AND LIMITED FIELD VERIFICATION. VERIFY EXACT CONDITIONS IN FIELD. SHOULD DISCREPANCIES OCCUR, NOTIFY ARCHITECT FOR CLARIFICATIONS.
4. BEGINNING WORK INDICATES THAT THE CONTRACTOR HAS ACCEPTED AND VERIFIED EXISTING CONDITIONS.
5. REFER TO CODE COMPLIANCE DRAWING(S) FOR LOCATIONS OF RATED ASSEMBLIES AND CODE SUMMARY. ALL EXISTING THROUGH-FLOOR PENETRATIONS TO BE PATCHED AND/OR FIRE STOPPED.
6. ABBREVIATIONS, TYPICAL MOUNTING DIMENSIONS, AND ANNOTATION SYMBOLOGY ARE SHOWN ON GENERAL INFORMATION DRAWINGS.
7. WALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF CONCRETE, FACE OF STUDS, COLUMN CENTERLINE AS SHOWN OR EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE PERPENDICULAR AND PARALLEL, UNLESS NOTED OTHERWISE.
9. PATCH ALL DISTURBED SURFACES WITH MATERIALS TO MATCH ADJACENT SURFACE CONSTRUCTION.
10. PROVIDE APPROVED SMOKE/FIRESTOPPING ASSEMBLIES AT ALL MECHANICAL AND ELECTRICAL PENETRATIONS THROUGH FIRE RATED AND SMOKE RESISTANT PARTITIONS IDENTIFIED ON CODE COMPLIANCE DRAWINGS. ALL EXISTING THROUGH-FLOOR PENETRATIONS TO BE PATCHED AND/OR FIRE STOPPED.
11. OWNER FURNISHED EQUIPMENT IS SHOWN LIGHT DASHED FOR REFERENCE ONLY. REFER TO EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
12. REFER TO INTERIORS FOR FINISHES INCLUDING WALL PROTECTION ITEMS.
13. REFER TO SPECIFICATION SECTION 10 1400 FOR REQUIRED LOCATIONS OF CODE REQUIRED SIGNAGE.

INTERIOR PARTITION TAG LEGEND

CORE MATERIAL
S - STEEL STUDS
W - WOOD STUDS
C - CONCRETE
M - MASONRY
H - CH / SHAFTWALL

ACOUSTICAL INSULATION
PROVIDE ACOUSTICAL INSULATION AT TAGGED LOCATIONS

PARTITION TYPE SUFFIX
REFER TO SCHEDULE BELOW

M12A

CORE SIZE (NOMINAL)

	S	W	C	M	H
0	7/8"				
1	1 5/8"				
2	2 1/2"	2x (flat)			2 1/2"
3	3 5/8"				
4	4"	2x4		4"	4"
5					
6	6"	2x6	6"	6"	6"
7					
8	8" CFMF	2x8	8"	8"	
9					
10			10"	10"	
11					
12			12"	12"	

INTERIOR PARTITION GENERAL NOTES

EXISTING WALL CONSTRUCTION
NEW STUD WALL CONSTRUCTION
NEW MASONRY WALL CONSTRUCTION

1. CONSTRUCT ALL WALLS TIGHT TO DECK ABOVE AND EXTEND INTO DECK FLUTES AND WEBS OF STEEL MEMBERS UNLESS OTHERWISE NOTED.
2. PROVIDE DEFLECTION TRACK AT THE TOP OF ALL INTERIOR NON-BEARING METAL STUD WALLS CAPABLE OF ACCOMMODATING 1" ROOF/FLOOR DEFLECTION. REFER TO DETAILS C6/G101 FOR HEAD OF WALL CONDITION.
3. REFER TO CODE COMPLIANCE PLAN FOR RATED WALL LOCATIONS. FIRE RATED AND SMOKE RESISTANT ASSEMBLIES SHALL BE CONTINUOUS, WITH OTHER PARTITIONS ABUTTING THEM.
4. PROVIDE FIRESTOPPING/ SMOKE SEALANT AT ALL PENETRATIONS THROUGH FIRE RATED AND SMOKE RESISTANT ASSEMBLIES, CORRIDORS, AND FLOORS WITH OCCUPIABLE SPACES ABOVE AND BELOW.
5. PROVIDE ACOUSTICAL SEALANT AT ALL WALLS WITH ACOUSTICAL INSULATION.
6. PROVIDE 5/8" WATER RESISTANT GYPSUM WALLBOARD AT ALL WALLS OF TOILET ROOMS, WALLS RECEIVING TILE, AND WALLS BEHIND AND ADJACENT TO SINKS.
7. PROVIDE 5/8 TILE BACKER AT ALL WALLS OF SHOWER ENCLOSURES.
8. REFER TO STRUCTURAL DRAWINGS FOR MASONRY REINFORCING AND GROUTING.
9. PROVIDE BULLNOSE CONCRETE MASONRY UNITS AT EXPOSED SILLS AND AT ALL INTERIOR EXPOSED VERTICAL CORNERS, INCLUDING WINDOW AND DOOR JAMBS.
10. ALL WALLS ARE TYPE S3A WITH ACOUSTICAL INSULATION UNLESS NOTED OTHERWISE.

INTERIOR PARTITION TYPE SUFFIXES

A	5/8" GYPSUM BOARD ON BOTH SIDES; EXTEND TO DECK (OR HARD CEILING WHERE IT OCCURS)
B	5/8" GYPSUM BOARD ON BOTH SIDES; EXTEND TO 6" ABOVE CEILING (OR HARD CEILING WHERE IT OCCURS)
D	5/8" GYPSUM BOARD ON ROOM SIDE ONLY; EXTEND TO DECK
F1	(1) LAYER 5/8" GYPSUM BOARD ON BOTH SIDES; EXTEND TO DECK ABOVE; 1 HR RATED UL DESIGN #U419
H1	(1) LAYER 5/8" GYPSUM BOARD ON ROOM SIDE, 1" SHAFT LINER TO DECK ABOVE ON OTHER SIDE; 1 HR RATED UL DESIGN #U415-A
P	PARTIAL HEIGHT WALL SAME AS "A", REFER TO DETAIL ON A501
S1	ACOUSTICAL STUD ASSEMBLY WITH SOUND DEADENING GYPSUM BOARD OVER RESILIENT CHANNELS (ONE SIDE) AND ACOUSTICAL SEALANT, TOP AND BOTTOM

ROOF LEGEND

MEMBRANE ROOFING OVER COVER BOARD OVER ROOF INSULATION ON SLOPED ROOF DECK

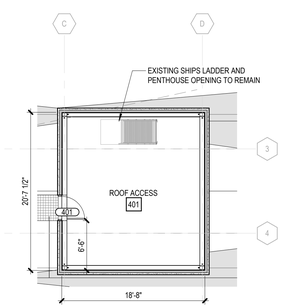
ROOF WALKWAY PAD

ROOF CRICKET

ROOF SLOPE — INDICATES DIRECTION OF SLOPE - 1/4" PER FOOT UNLESS NOTED OTHERWISE

(-X") — INDICATES THICKNESS OF INSULATION ABOVE BASE LAYER INSULATION

ROOF DRAIN (RD) OR OVERFLOW ROOF DRAIN (ORD)



ROOF PLAN

1/8" = 1'-0"

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARRIOS
CHECKED BY
D. SNYDER

THIRD FLOOR AND ROOF PLAN

A102

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35 - A102
THIRD FLOOR AND ROOF PLAN
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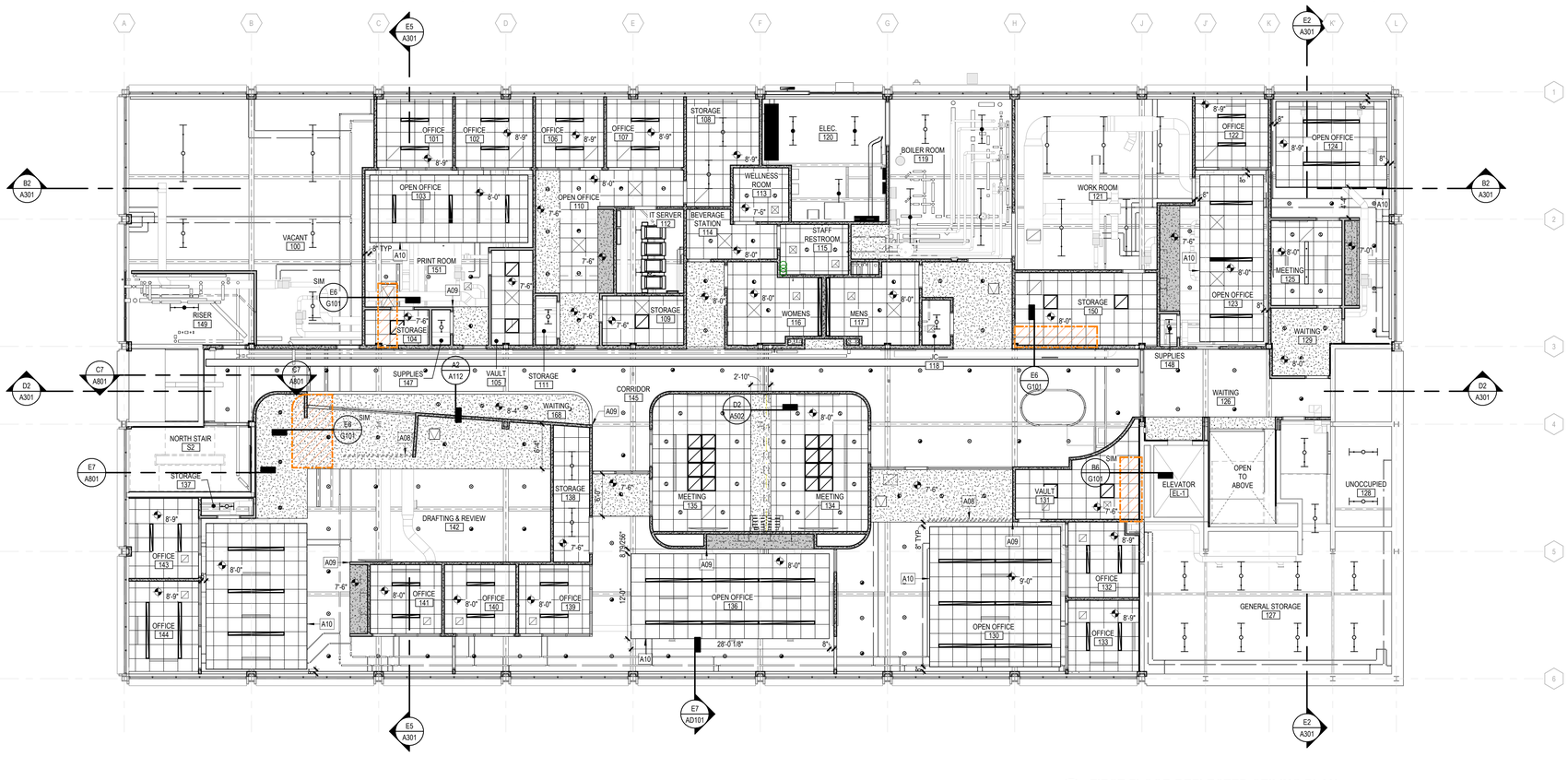
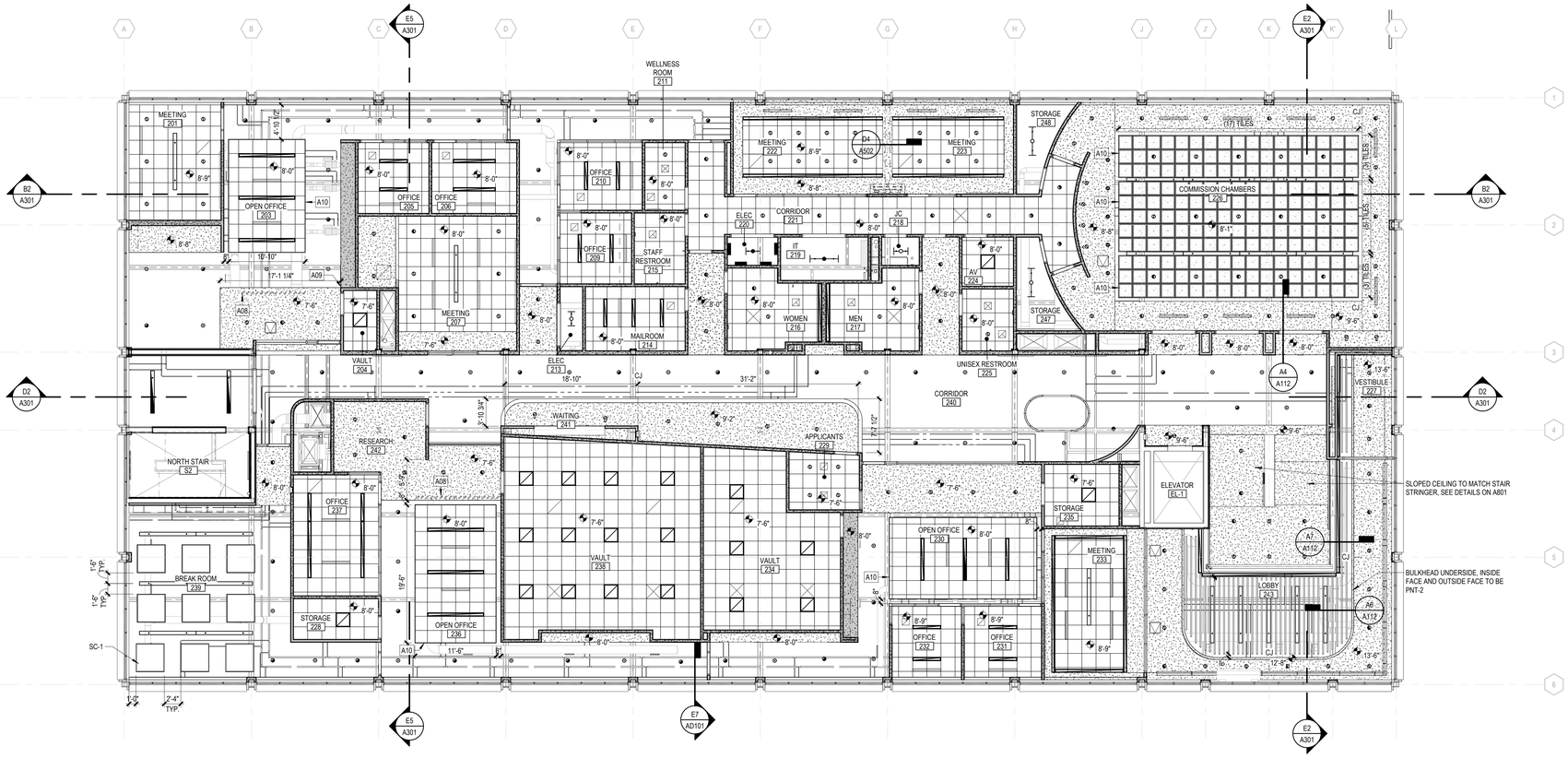


FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

1. ALL CEILING GRIDS ARE TO BE CENTERED IN ROOM / AREA OR ALIGNED WITH ADJACENT ROOM / AREA AS INDICATED, UNLESS NOTED OTHERWISE.
2. CEILING HEIGHTS INDICATED ARE DIMENSIONED FROM THE FINISHED FLOOR BELOW.
3. ALL LIGHT FIXTURES, SPRINKLER HEADS, RETURN AIR GRILLES AND SUPPLY AIR GRILLES ARE TO BE LOCATED IN THE CENTER OF THE CEILING PAD, UNLESS NOTED OTHERWISE.
4. COORDINATE MECHANICAL, ELECTRICAL AND FIRE PROTECTION TO ASSURE PROPER CLEARANCES AND LAYOUT.
5. MECHANICAL, ELECTRICAL AND FIRE PROTECTION CONTRACTORS TO PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED FOR MAINTENANCE OF EQUIPMENT. COORDINATE SIZE AND LOCATIONS OF ACCESS PANELS TO MINIMIZE QUANTITIES. CONTRACTOR IS REQUIRED TO PROVIDE LAYOUT TO ARCHITECT FOR REVIEW PRIOR TO INSTALLATION, UNLESS NOTED OTHERWISE.

- EXPOSED (PNT-2) PAINT ALL STEEL, PIPES, HVAC, ETC. TO MATCH
- GYPSUM BOARD (PNT-1)
- GYPSUM BOARD (PNT-2)
- GYPSUM BOARD (PNT-3)
- 2X2 ACOUSTIC CEILING PANEL (ACP-1)
- DECORATIVE ACOUSTIC CEILING PANEL (SC-1)
- CEILING BAFFLE PANEL (SC-2)
- ACOUSTICAL BAFFLES (SC-3)
- CJ PLASTER OR GYPSUM WALL BOARD CONTROL JOINT
- CEILING ACCESS PANEL OR ROOF HATCH
- RECESSED ROUND LIGHT FIXTURE (EMERGENCY FIXTURES SHADED)
- CEILING PENDANT LIGHT FIXTURE
- 2X2 LIGHT FIXTURE
- 2X4 LIGHT FIXTURE
- LINEAR LIGHT FIXTURE
- ELLIPSE LIGHT FIXTURE
- HVAC SUPPLY GRILLE
- HVAC RETURN GRILLE
- RADIANT PANEL
- FIRE EXIT SIGN LOCATION
- (S) SPEAKER LOCATION (SEE ELECTRICAL COMMUNICATIONS)
- (C) CAMERA LOCATION (SEE ELECTRICAL COMMUNICATIONS)
- BASE OF MECHANICAL SHAFT

KEYNOTES

NUMBER	NOTE
A08	SCREEN SLAT WALL SYSTEM (06 2000)
A09	ALIGN CEILING EDGE TO EDGE OF WALL
A10	ACPT-1 AT CEILING CLOUD PERIMETER

D1 3D VIEW AT STAIR ON FIRST FLOOR
12" = 1'-0"

E1 3D VIEW AT STAIR ON SECOND FLOOR
12" = 1'-0"

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10/13/2026 BIDS

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23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARRIOS
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FIRST AND SECOND FLOOR REFLECTED CEILING PLAN
A111

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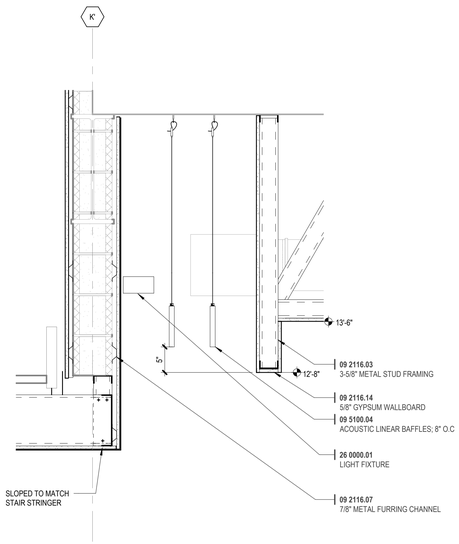
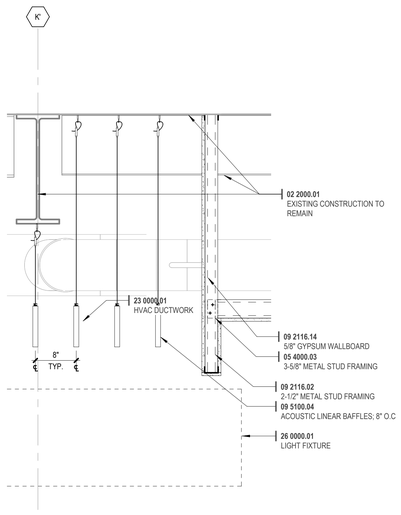
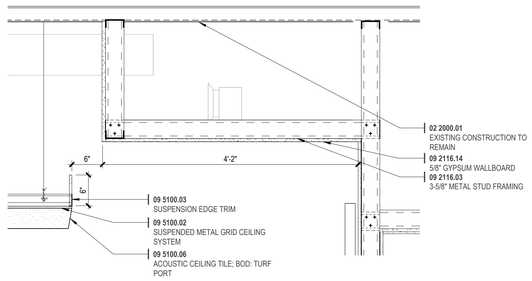


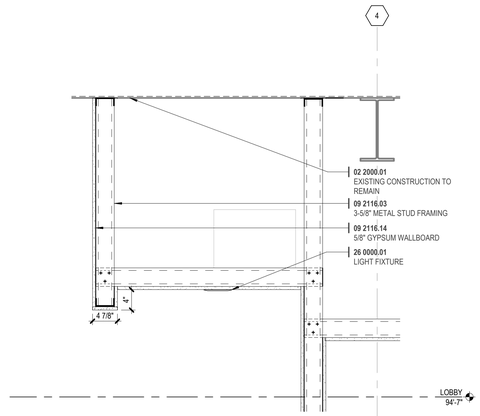
A7 CEILING DETAIL AT STAIRS
1" = 1'-0"



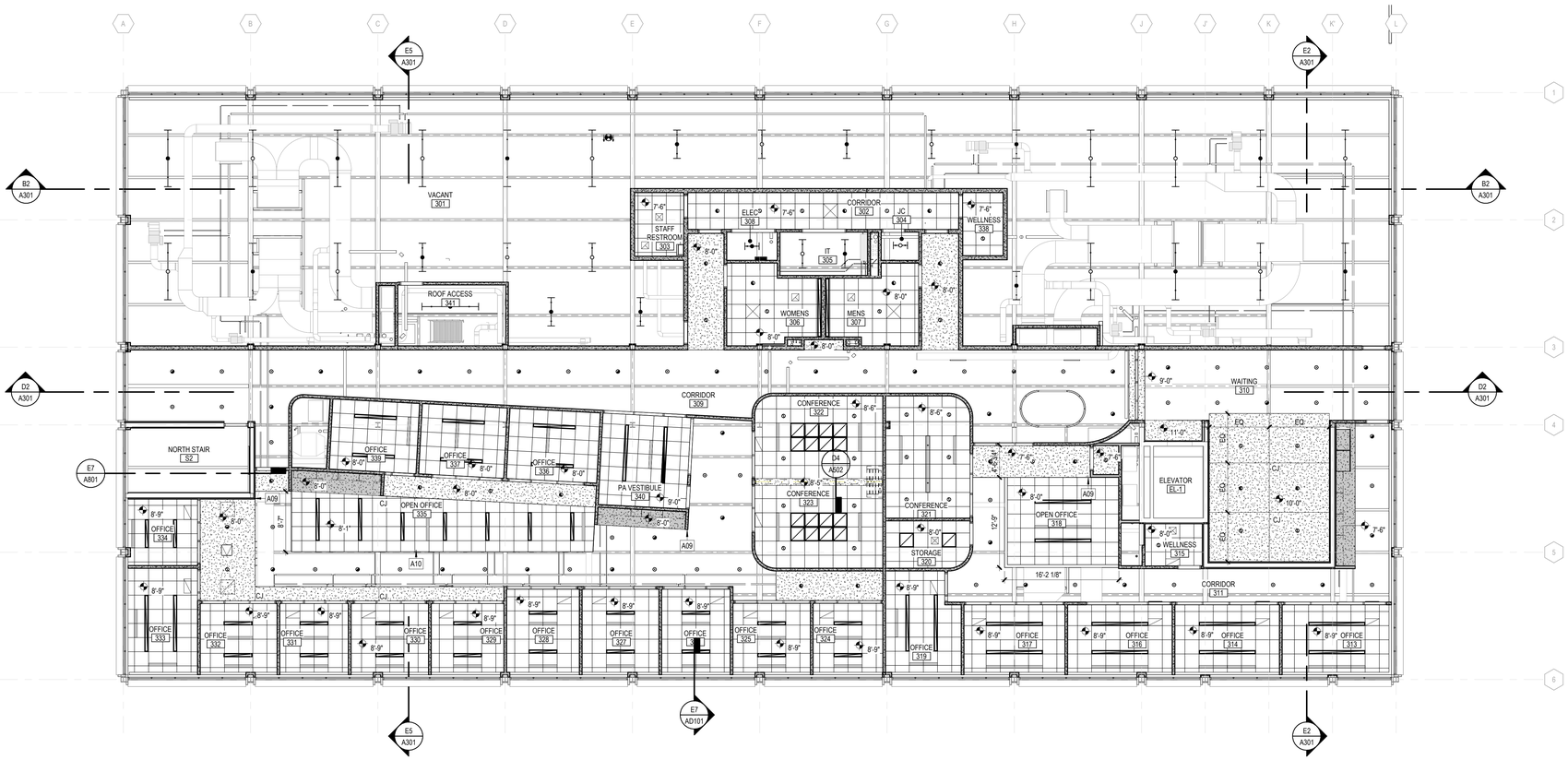
A6 CEILING DETAIL AT LOBBY
1" = 1'-0"



A4 CEILING DETAIL AT COMISSION CHAMBERS
1" = 1'-0"



A2 CEILING DETAIL - BAFFLES
1" = 1'-0"



THIRD FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

1. ALL CEILING GRIDS ARE TO BE CENTERED IN ROOM / AREA OR ALIGNED WITH ADJACENT ROOM / AREA AS INDICATED, UNLESS NOTED OTHERWISE.
2. CEILING HEIGHTS INDICATED ARE DIMENSIONED FROM THE FINISHED FLOOR BELOW.
3. ALL LIGHT FIXTURES, SPRINKLER HEADS, RETURN AIR GRILLES AND SUPPLY AIR GRILLES ARE TO BE LOCATED IN THE CENTER OF THE CEILING PAD, UNLESS NOTED OTHERWISE.
4. COORDINATE MECHANICAL, ELECTRICAL AND FIRE PROTECTION TO ASSURE PROPER CLEARANCES AND LAYOUT.
5. MECHANICAL, ELECTRICAL AND FIRE PROTECTION CONTRACTORS TO PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED FOR MAINTENANCE OF EQUIPMENT. COORDINATE SIZE AND LOCATIONS OF ACCESS PANELS TO MINIMIZE QUANTITIES. CONTRACTOR IS REQUIRED TO PROVIDE LAYOUT TO ARCHITECT FOR REVIEW PRIOR TO INSTALLATION, UNLESS NOTED OTHERWISE.

- EXPOSED (PNT-2) PAINT ALL STEEL, PIPES, HVAC, ETC. TO MATCH
- GYPSUM BOARD (PNT-1)
- GYPSUM BOARD (PNT-2)
- GYPSUM BOARD (PNT-3)
- 2X2 ACOUSTIC CEILING PANEL (ACP-1)
- DECORATIVE ACOUSTIC CEILING PANEL (SC-1)
- CEILING BAFFLE PANEL (SC-2)
- ACOUSTICAL BAFFLES (SC-3)
- CJ — PLASTER OR GYPSUM WALL BOARD CONTROL JOINT
- CEIILING ACCESS PANEL OR ROOF HATCH
- RECESSED ROUND LIGHT FIXTURE (EMERGENCY FIXTURES SHADED)
- CEILING PENDANT LIGHT FIXTURE
- 2X2 LIGHT FIXTURE
- 2X4 LIGHT FIXTURE
- LINEAR LIGHT FIXTURE
- ELLIPSE LIGHT FIXTURE
- HVAC SUPPLY GRILLE
- HVAC RETURN GRILLE
- RADIANT PANEL
- FIRE EXIT SIGN LOCATION
- (S) SPEAKER LOCATION (SEE ELECTRICAL COMMUNICATIONS)
- (C) CAMERA LOCATION (SEE ELECTRICAL COMMUNICATIONS)
- BASE OF MECHANICAL SHAFT

KEYNOTES

NUMBER	NOTE
A09	ALIGN CEILING EDGE TO EDGE OF WALL
A10	ACPT-1 AT CEILING CLOUD PERIMETER

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PROJECT MANAGER
T. FREY
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R. RACLAWSKI
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N. BARRIOS
CHECKED BY
D. SNYDER

THIRD FLOOR REFLECTED CEILING PLAN
A112

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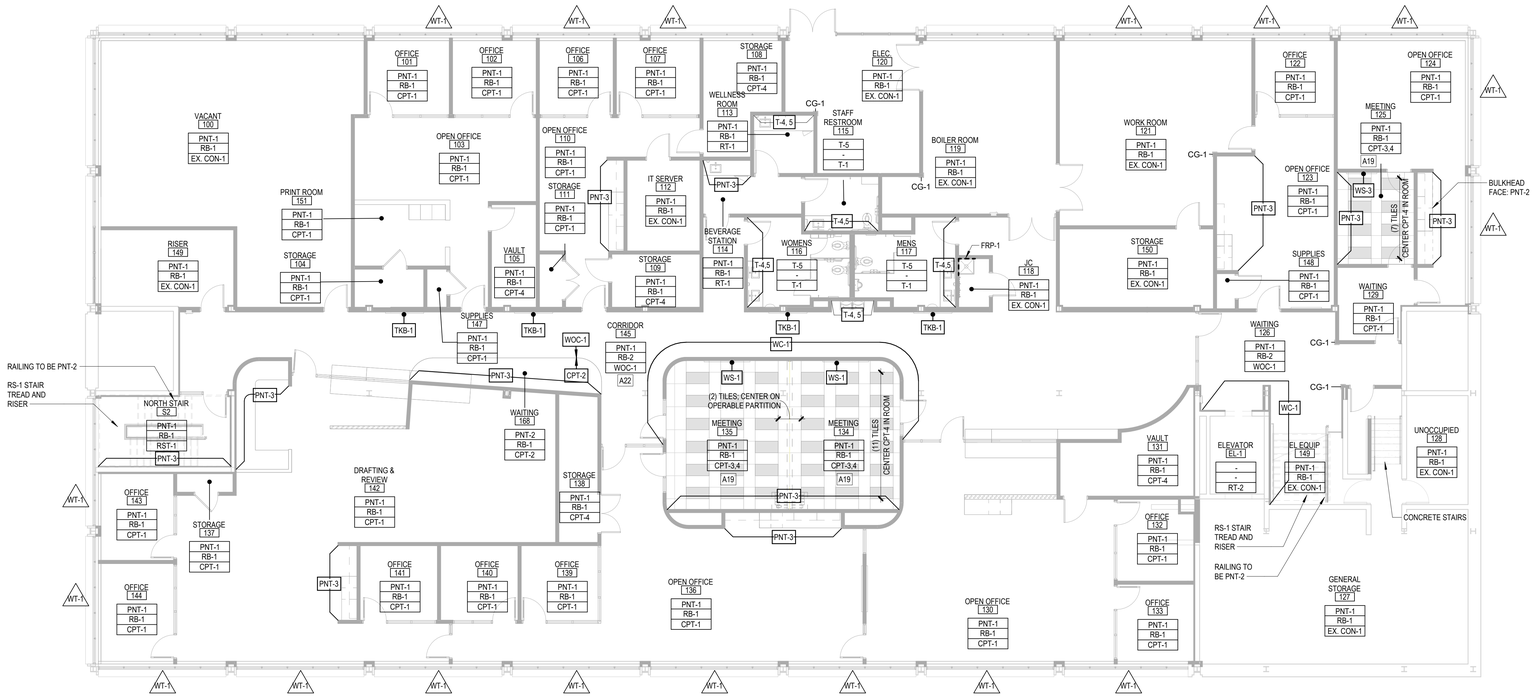
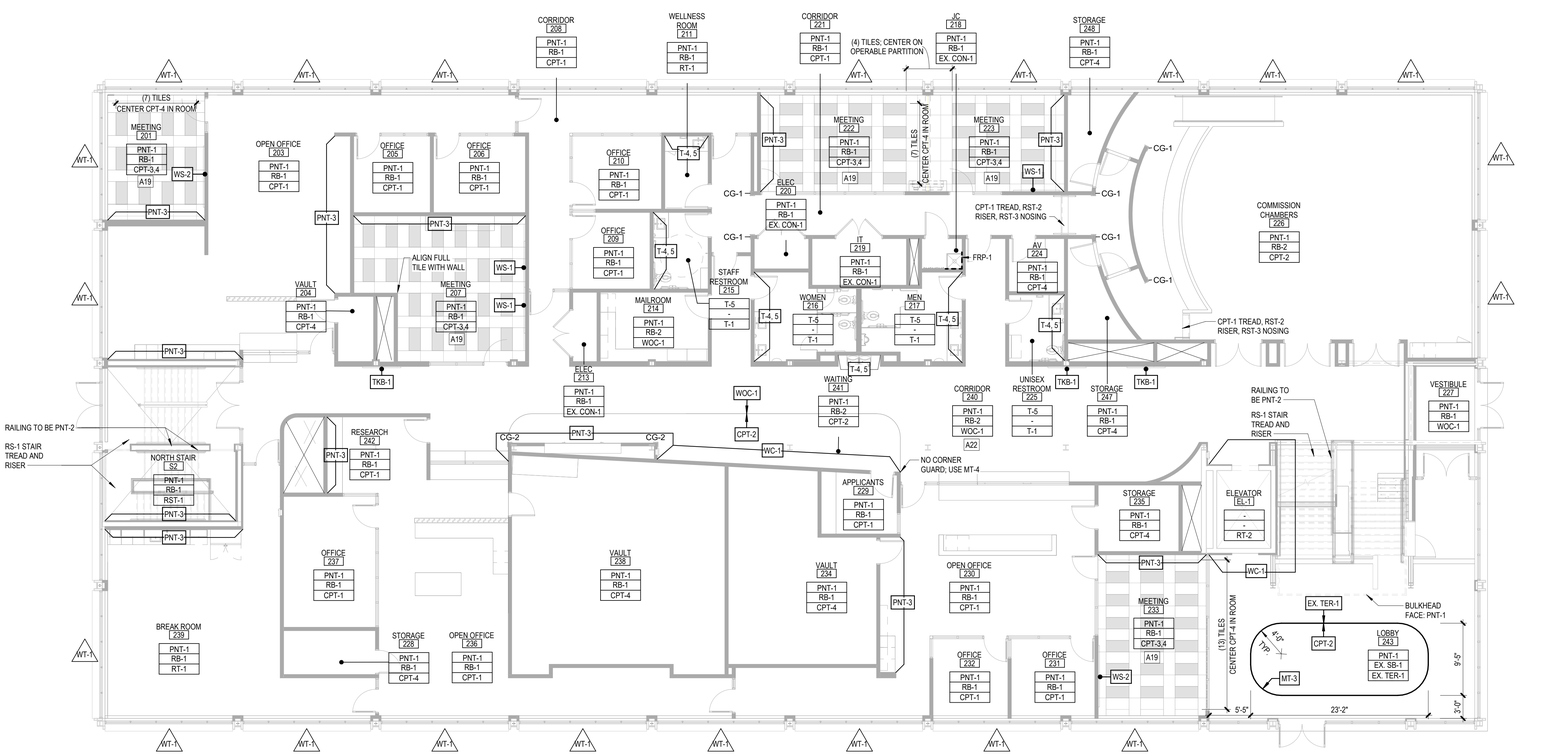


FIRST FLOOR FINISH PLAN

1/8" = 1'-0"



SECOND FLOOR FINISH PLAN

1/8" = 1'-0"

FINISH GENERAL NOTES

1. FLOORING:
   A. INSTALL FLOORING MATERIAL IN DIRECTION INDICATED ON FINISH PLAN.
   B. PROVIDE A CEMENTITIOUS COMPOUND BETWEEN FLOOR MATERIALS OF DIFFERENT THICKNESS. FEATHER FLOOR FOR SMOOTH TRANSITION.
   C. USE ALUMINUM TILE TRANSITION STRIPS BETWEEN TILE / CARPET, TILE / RUBBER, TILE / CONCRETE, CARPET / CONCRETE.
   D. FLOORING TRANSITION TO TAKE PLACE AT UNDERSIDE OF DOOR.
2. BASE:
   A. TYPICAL BASE PROFILE AT CARPET SHALL BE STRAIGHT.
   B. TYPICAL BASE PROFILE AT RESILIENT FLOORING SHALL BE COVE.
3. WALLS:
   A. PAINT FIRE EXTINGUISHER CABINETS TO MATCH ADJACENT WALL COLOR, UNLESS STAINLESS STEEL OR BRUSHED ALUMINUM FINISH.
   B. ALL HIGH IMPACT WALL PROTECTION SHALL TERMINATE AT 51" A.F.F. , PROVIDE MATCHING VERTICAL AND HORIZONTAL TRIM PIECES. REFER TO FINISH PLANS FOR LOCATIONS.
   C. ALL HANDRAILS SHALL BE MOUNTED AT 34" A.F.F. EXCEPT WHERE OTHERWISE INDICATED.
   D. PAINT ALL HANDRAILS TO BE PNT-2, UNO.
   E. SEE FINISH PLAN FOR CORNER GUARD LOCATIONS.
4. EXPOSED COLUMNS:
   A. PAINT ALL EXPOSED COLUMNS. COLOR TO BE PNT-2.
5. BULKHEADS:
   A. PAINT BULKHEAD UNDERSIDES. COLOR TO BE PNT-1 EXCEPT WHERE OTHERWISE INDICATED.
   B. PAINT BULKHEAD FACE TO MATCH ADJACENT WALL COLOR. EXCEPT WHERE OTHERWISE INDICATED.
6. DOORS AND FRAMES:
   A. PAINT ALL INTERIOR HOLLOW METAL DOOR FRAMES. COLOR TO BE PNT-2.
   B. PAINT ALL INTERIOR HOLLOW METAL DOORS. COLOR TO BE PNT-2.
   C. FRAME COLOR TRANSITION TO TAKE PLACE AT INSIDE CORNER OF STOP ON DOOR SIDE.
   D. ALL INTERIOR WOOD DOORS TO BE STAINED. REFER TO WOOD DOOR SPEC 08 1416.
7. WINDOWS:
   A. TYPICAL WINDOW SILL TO BE SDS-1.
8. DIFFUSERS AND COVERS:
   A. PAINT WALL DIFFUSER AND AIR GRILLE COVERS TO MATCH ADJACENT WALL.

FINISH PLAN LEGEND

F-1	FLOOR / WALL FINISH INDICATOR
⟷	FLOORING PATTERN DIRECTION
WT-1	WINDOW TREATMENT LOCATION INDICATOR (WINDOW TREATMENTS TO SPAN ENTIRE LENGTH OF OPENING)
- - - - - -	WALL PROTECTION
W-1	WALL FINISH EXTENTS
———	FLOOR FINISH EXTENTS
ROOM NAME 101 / WALL / BASE / FLOOR	ROOM FINISH TAG

KEYNOTES

NUMBER	NOTE
A19	SEE DETAIL A3/A501 FOR CARPET INSTALLATION PATTERN
A22	CG-1 AT ALL CORRIDOR OUTSIDE CORNERS UNO

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ISABELLA COUNTY ADMINISTRATION BUILDING INTERIOR RENOVATION

200 N. MAIN STREET
MT. PLEASANT, MI 48858

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
S. PHILLIPS
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FIRST AND SECOND FLOOR FINISH PLAN

A121

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FIRST AND SECOND FLOOR FINISH PLAN
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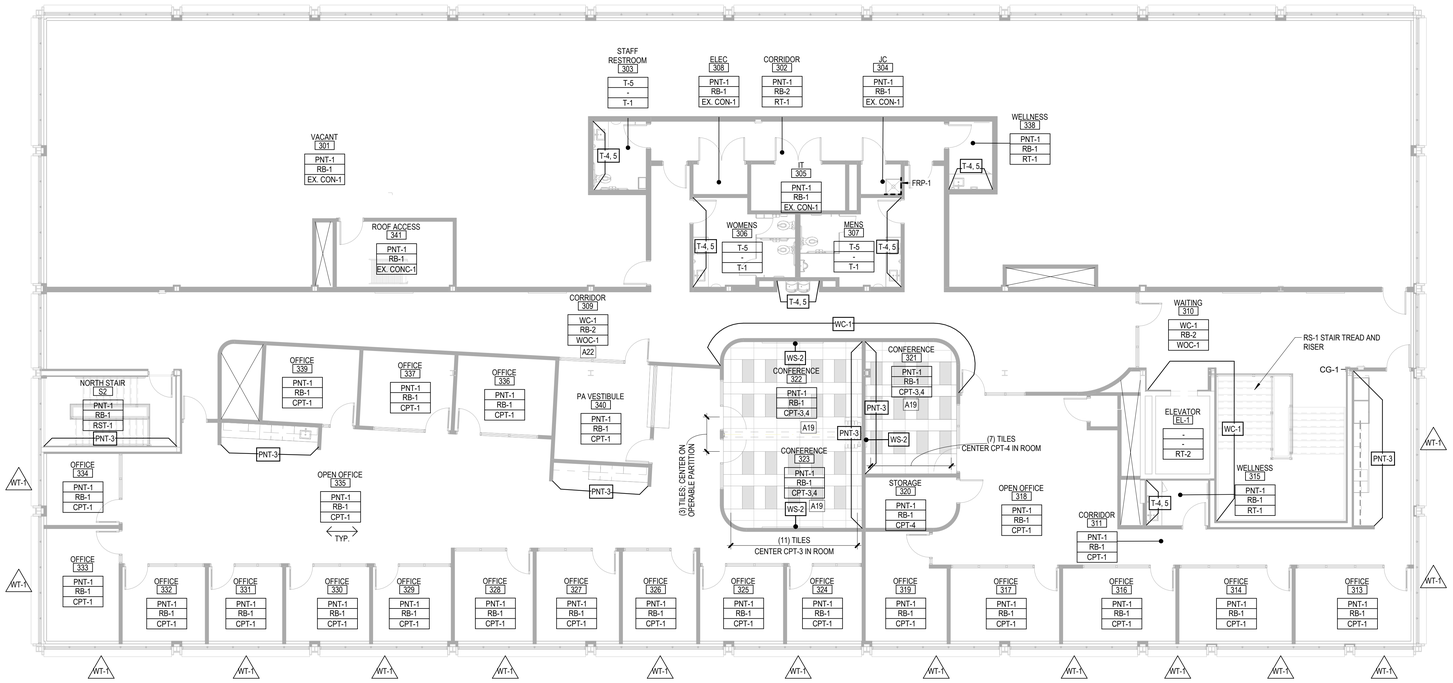

THIRD FLOOR FINISH PLAN

1/8" = 1'-0"

FINISH GENERAL NOTES

1. FLOORING:
   A. INSTALL FLOORING MATERIAL IN DIRECTION INDICATED ON FINISH PLAN.
   B. PROVIDE A CEMENTITIOUS COMPOUND BETWEEN FLOOR MATERIALS OF DIFFERENT THICKNESS. FEATHER FLOOR FOR SMOOTH TRANSITION.
   C. USE ALUMINUM TILE TRANSITION STRIPS BETWEEN TILE / CARPET, TILE / RUBBER, TILE / CONCRETE, CARPET / CONCRETE.
   D. FLOORING TRANSITION TO TAKE PLACE AT UNDERSIDE OF DOOR.
2. BASE:
   A. TYPICAL BASE PROFILE AT CARPET SHALL BE STRAIGHT.
   B. TYPICAL BASE PROFILE AT RESILIENT FLOORING SHALL BE COVE.
3. WALLS:
   A. PAINT FIRE EXTINGUISHER CABINETS TO MATCH ADJACENT WALL COLOR, UNLESS STAINLESS STEEL OR BRUSHED ALUMINUM FINISH .
   B. ALL HIGH IMPACT WALL PROTECTION SHALL TERMINATE AT 51" A.F.F . PROVIDE MATCHING VERTICAL AND HORIZONTAL TRIM PIECES. REFER TO FINISH PLANS FOR LOCATIONS.
   C. ALL HANDRAILS SHALL BE MOUNTED AT 34" A.F.F. EXCEPT WHERE OTHERWISE INDICATED.
   D. PAINT ALL HANDRAILS TO BE PNT-2, UNO.
   E. SEE FINISH PLAN FOR CORNER GUARD LOCATIONS.
4. EXPOSED COLUMNS:
   A. PAINT ALL EXPOSED COLUMNS. COLOR TO BE PNT-2.
5. BULKHEADS:
   A. PAINT BULKHEAD UNDERSIDES. COLOR TO BE PNT-1 EXCEPT WHERE OTHERWISE INDICATED.
   B. PAINT BULKHEAD FACE TO MATCH ADJACENT WALL COLOR. EXCEPT WHERE OTHERWISE INDICATED.
6. DOORS AND FRAMES:
   A. PAINT ALL INTERIOR HOLLOW METAL DOOR FRAMES. COLOR TO BE PNT-2.
   B. PAINT ALL INTERIOR HOLLOW METAL DOORS. COLOR TO BE PNT-2.
   C. FRAME COLOR TRANSITION TO TAKE PLACE AT INSIDE CORNER OF STOP ON DOOR SIDE.
   D. ALL INTERIOR WOOD DOORS TO BE STAINED. REFER TO WOOD DOOR SPEC 08 1416.
7. WINDOWS:
   A. TYPICAL WINDOW SILL TO BE SDS-1.
8. DIFFUSERS AND COVERS:
   A. PAINT WALL DIFFUSER AND AIR GRILLE COVERS TO MATCH ADJACENT WALL.

FINISH PLAN LEGEND

F-1	FLOOR / WALL FINISH INDICATOR
⟷	FLOORING PATTERN DIRECTION
WT-1	WINDOW TREATMENT LOCATION INDICATOR (WINDOW TREATMENTS TO SPAN ENTIRE LENGTH OF OPENING)
- - - - - -	WALL PROTECTION
W-1	WALL FINISH EXTENTS
———	FLOOR FINISH EXTENTS
ROOM NAME 101 / WALL / BASE / FLOOR	ROOM FINISH TAG

KEYNOTES

NUMBER	NOTE
A19	SEE DETAIL A3/A501 FOR CARPET INSTALLATION PATTERN
A22	CG-1 AT ALL CORRIDOR OUTSIDE CORNERS UNO

INTERIOR FINISH MATERIALS

MARK	TYPE	MANUFACTURER	STYLE / PATTERN / FINISH	SIZE	COLOR	MATERIAL NOTES	REPRESENTATIVE
06 2000							
WD-1	STAINED WOOD	-	WHITE OAK	-	TO MATCH PL-1		
06 4100							
PL-1	PLASTIC LAMINATE	WILSONART	-	-	WHITE OAK PB HONEY 8283K-05		
PL-2	PLASTIC LAMINATE	WILSONART	-	-	PHANTOM ECRU 8212K-28		
06 8316							
FRP-1	FIBERGLASS REINFORCED PANELING	MARLITE	STANDARD FRP	-	PEBBLED, WHITE		
08 8000							
GF-1	GLASS FILM	SOLYX	SX-3140 DUSTED CRYSTAL	48"H	DUSTED CRYSTAL	MOUNT BOTTOM AT 16" AFF U.N.O; VERIFY LOCATIONS AND SIZE IN FIELD WITH OWNER	
09 3000							
GRT-1	GROUT	TO MATCH LATICRETE	-	-	WALNUT		
MT-1	METAL TILE TRIM	SCHLUTER	DILEX-EKE	-	TBD	USE AT ALL FLOOR TILE TO WALL TILE TRANSITIONS	
MT-2	METAL TILE TRIM	SCHLUTER	SCHIENE	-	BRUSHED NICKEL ANODIZED	USE AT ALL TILED OUTSIDE CORNERS	
T-1	PORCELAIN TILE	VIRGINIA TILE / CAESAR	LINK	24" X 24"	BOLT	INSTALLATION METHOD: GRID	LISA MCLEAN 616.262.1102
T-2	NOT USED	-	-	-	-		
T-3	NOT USED	-	-	-	-		
T-4	PORCELAIN TILE	VIRGINIA TILE / MILESTONE	EARTHEN	12" X 12"	MARRON	INSTALLATION METHOD: SEE ELEVATION	LISA MCLEAN 616.262.1102
T-5	PORCELAIN TILE	VIRGINIA TILE / MILESTONE	EARTHEN	12" X 12"	ALABASTER	INSTALLATION METHOD: SEE ELEVATION	LISA MCLEAN 616.262.1102
09 5100							
ACP-1	ACOUSTIC CEILING PANELS	ARMSTRONG	ULTIMA / TEGULAR	2' X 2'	WHITE	9/16" SUPRAFINE GRID: WHITE	
ACPT-1	ACOUSTIC CEILING PANEL TRIM	ARMSTRONG	AXIOM CLASSIC TRIM	3"H	PREMIUM COLOR TBD		
09 6500							
RB-1	RESILIENT BASE	MANNINGTON	BURKEBASE TP	4" H	MOCHA 597		CARSON COOPER 414.335.9448
RB-2	RESILIENT BASE	MANNINGTON	EDGE EFFECTS / SIMPLICITY	4" H	MOCHA 597		CARSON COOPER 414.335.9448
RST-1	RESILIENT STAIR TREAD AND ACCESSORIES	MANNINGTON	CONNECTSTEP	-	MOCHA 597	SQUARE PROFILE	CARSON COOPER 414.335.9448
RST-2	RESILIENT STAIR RISER	MANNINGTON	1/8" RISER	-	MOCHA 597		CARSON COOPER 414.335.9448
RST-3	RESILIENT STAIR NOSING	MANNINGTON	570 SUPERIOR CARPET STAIR NOSING	-	MOCHA 597		CARSON COOPER 414.335.9448
RT-1	RESILIENT FLOOR	CAPRI CORK	AND/OR RUBBER CORK	4' ROLL	RAFFIA AD4009		
RT-2	RESILIENT TILE	MANNINGTON	COLOR-SCAPE (PVC-FREE)	36" X 36"	MOCHA 597		CARSON COOPER 414.335.9448
09 6616							
EX. SB-1	EXISTING TERRAZZO BASE	-	-	-	-	PATCH, GRIND AND POLISH	
EX. TER-1	EXISTING TERRAZZO	-	-	-	-	PATCH, GRIND AND POLISH	

INTERIOR FINISH MATERIALS

MARK	TYPE	MANUFACTURER	STYLE / PATTERN / FINISH	SIZE	COLOR	MATERIAL NOTES	REPRESENTATIVE
09 6813							
CPT-1	CARPET TILE	MANNINGTON	INGENUITY	12" X 36"	DAPPLED 83353	INSTALLATION METHOD: VERTICAL ASHLAR	CARSON COOPER 414.335.9448
CPT-2	CARPET TILE	MANNINGTON	SKETCHFLOW	12" X 36"	CHAMOMILE VIBE 81224	INSTALLATION METHOD: VERTICAL ASHLAR	CARSON COOPER 414.335.9448
CPT-3	CARPET TILE	SHAW	CALM	18" X 36"	DELIGHTFUL 90780	INSTALLATION METHOD: VERTICAL ASHLAR U.N.O. ON FINISH PLAN	TESKE HOFFMEISTER 616.717.3859
CPT-4	CARPET TILE	SHAW	CALM	18" X 36"	BUBBLY 90100	INSTALLATION METHOD: VERTICAL ASHLAR U.N.O. ON FINISH PLAN	TESKE HOFFMEISTER 616.717.3859
MT-3	METAL FLOORING TRIM	KUBERIT	KT-A / BENDABLE	-	ANODIZED ALUMINUM A1		
WOC-1	WALK OFF CARPET	TARKETT	ASSERTIVE ACTION	18" X 36"	FUSION	INSTALLATION METHOD: VERTICAL ASHLAR	
09 7200							
MT-4	METAL WALLCOVERING TRIM	FRY REGLET	WALLCOVERING BASE/TERMINATION WCTBT125-217	-	SUMMER WHEAT 4008	INSTALL AT ALL EXPOSED OPEN EDGES OF WC-1	
MT-5	METAL WALLCOVERING TRIM	FRY REGLET	WALLCOVERING OUTSIDE CORNER WCTOSC	-	SUMMER WHEAT 4008	INSTALL AT ALL OUTISDE CORNERS OF WC-1	
WC-1	WALLCOVERING	MOMENTUM	WOODWINDS	8" H	AZ53758 TEAK		BRANDI WEISS 313.720.2871
09 8430							
SC-1	ACOUSTIC CEILING CLOUD	ACOUFELT	PAN	48" X 48"	IVORY	MOUNT BOTTOM AT 8' AFF	
SC-2	ACOUSTIC CEILING PANELS	MOMENTUM	SQUARE FRAME / 9/16" CAPPED	24" X 24"	PARTHENON	9/16" GRID: PREMIUM COLOR TBD	BRANDI WEISS 313.720.2871
SC-3	ACOUSTIC BAFFLES	ACOUFELT	LINEAR	8" H, 8" APART	IVORY	REFER TO SHOP DRAWINGS FOR LENGTH OF EACH BAFFLE	
09 9123							
EX.CON-1	EXISTING CONCRETE FINISH	-	-	-	-	PATCH, GRIND AND SEAL	
PNT-1	PAINT	TO MATCH SHERWIN WILLIAMS	-	-	SW 7036 ACCESSIBLE BEIGE		
PNT-2	PAINT	TO MATCH BENJAMIN MOORE	-	-	1553 EQUESTRIAN GRAY		
PNT-3	PAINT	TO MATCH SHERWIN WILLIAMS	-	-	SW 9182 ROJO MARRON		
10 1100							
TKB-1	TACKABLE DISPLAY CASE	CLARIDGE	310 SERIES BULLETIN BOARD CABINET	3' X 5'	FRAME: WALNUT; BACK PANEL: CLARIDGE CORK COLOR TBD	MOUNT BOTTOM AT 30" AFF	
WS-1	WRITING SURFACE	ASI	FRAMELESS PORCELAIN BOARDS	4' X 6'	WHITE 29 HIGH GLOSS	MOUNT BOTTOM AT 24" AFF	
WS-2	WRITING SURFACE	ASI	FRAMELESS PORCELAIN BOARDS	4' X 8'	WHITE 29 HIGH GLOSS	MOUNT BOTTOM AT 24" AFF	
WS-3	WRITING SURFACE	ASI	FRAMELESS PORCELAIN BOARDS	4' X 4'	WHITE 29 HIGH GLOSS	MOUNT BOTTOM AT 24" AFF	
10 1200							
DC-1	RECESSED DISPLAY CASE	CLARIDGE	PREMIERE DISPLAY CASE CABINET	4' X 10'	PL-1 INTERIOR		
10 2600							
CG-1	CORNER GUARD	INPRO	FLEXIBLE CORNER GUARD	8' H X 3/4"	TBD TO MATCH PNT-1		
CG-2	CORNER GUARD	INPRO	FLEXIBLE CORNER GUARD	8' H X 3/4"	TBD TO MATCH PNT-3		
12 2000							
WT-1	MANUAL WINDOW SHADES	SWF CONTRACT	PRO SERIES MANUAL SOLAR SHADES	-	FABRIC: SUMMIT MIST/TAUPE C7707	INCLUDE FASCIA: BLACK	
12 3600							
PL-3	PLASTIC LAMINATE	ARBORITE	-	-	NUNO GLACE P387 CA		
SDS-1	SOLID SURFACE	HI-MACS	-	-	CALACATTA ALBERO M822		

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23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
S. PHILLIPS
CHECKED BY
J. HAHN

THIRD FLOOR FINISH PLAN AND FINISH MATERIAL LIST

A122

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THIRD FLOOR FINISH PLAN AND FINISH MATERIAL LIST
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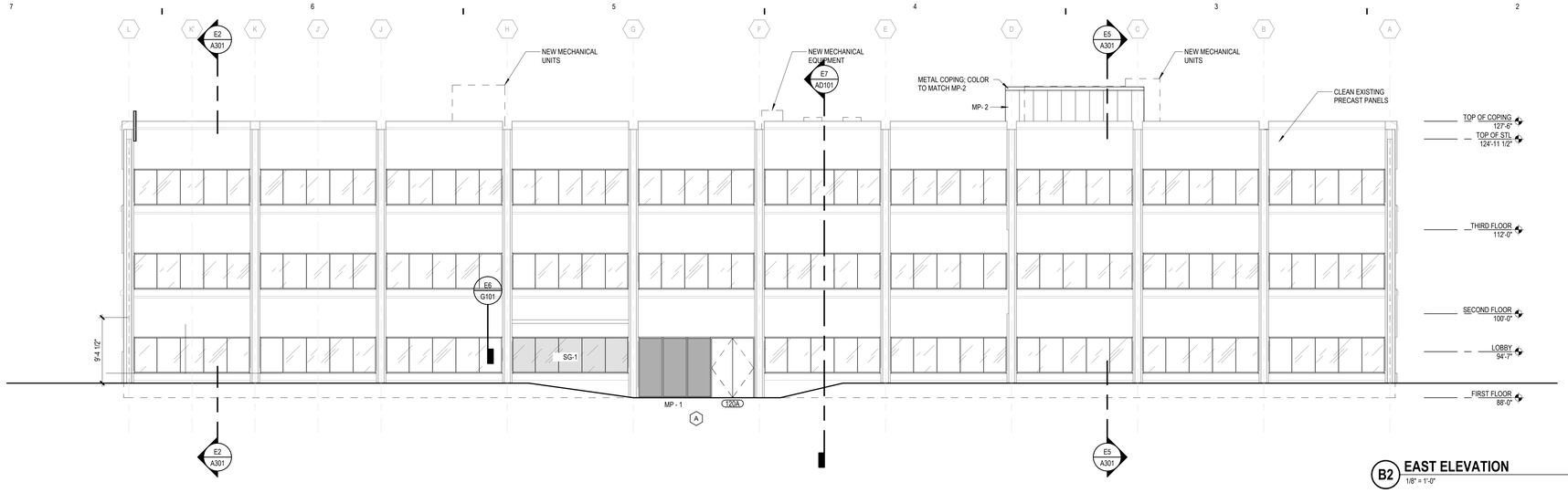
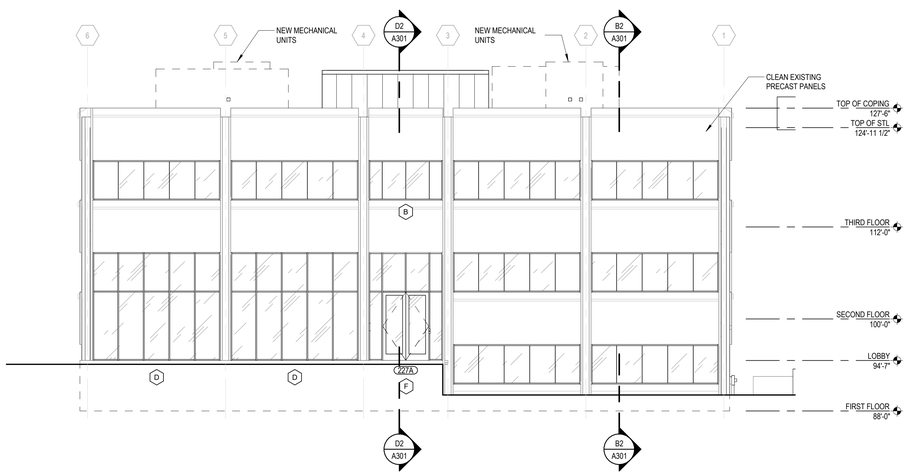
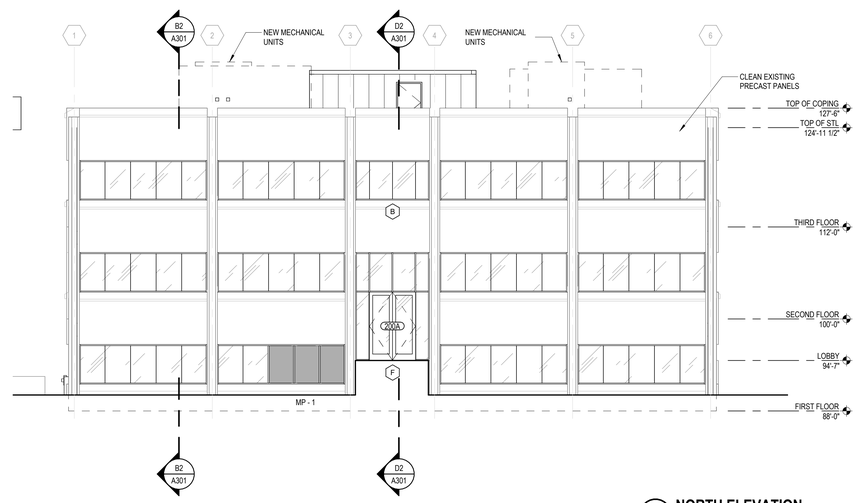


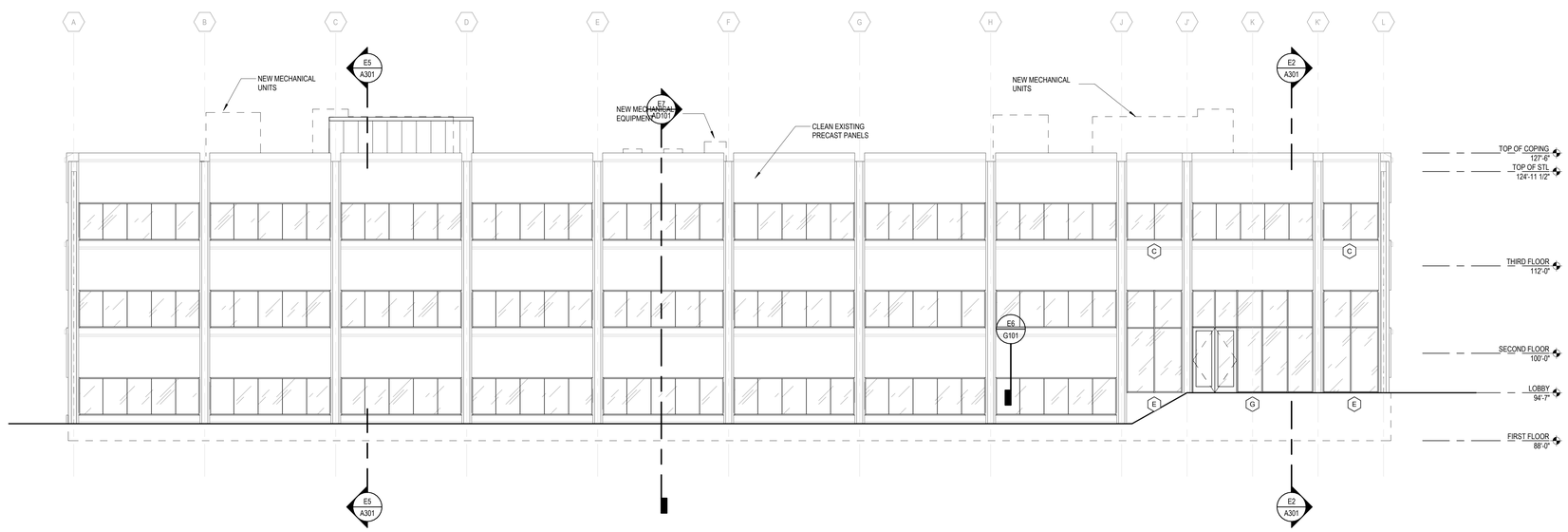
B2 EAST ELEVATION
1/8" = 1'-0"



D5 SOUTH ELEVATION
1/8" = 1'-0"



D2 NORTH ELEVATION
1/8" = 1'-0"



E2 WEST ELEVATION
1/8" = 1'-0"

EXTERIOR MATERIALS LEGEND

- EXISTING PRECAST PANELS
- INSULATED GLAZING (IG-1) TYPICAL
- SPANDREL PANEL (SG-1)
- GLAZED-IN METAL PANEL (MP-1) COLOR TO MATCH STOREFRONT / CURTAINWALL FINISH
- INSULATED METAL PANEL (MP-2)

NOTE: ALL EXISTING EXTERIOR GLAZING SYSTEMS TO BE REPLACED
REFERENCE T504 FOR SECURITY CAMERA LOCATIONS

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EXTERIOR ELEVATIONS
A201

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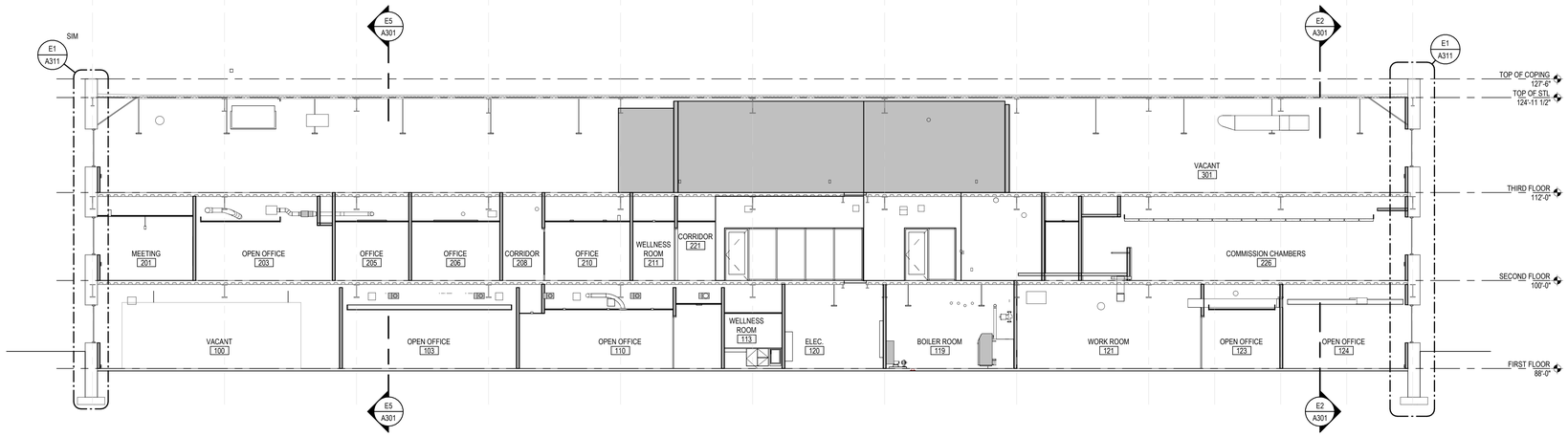
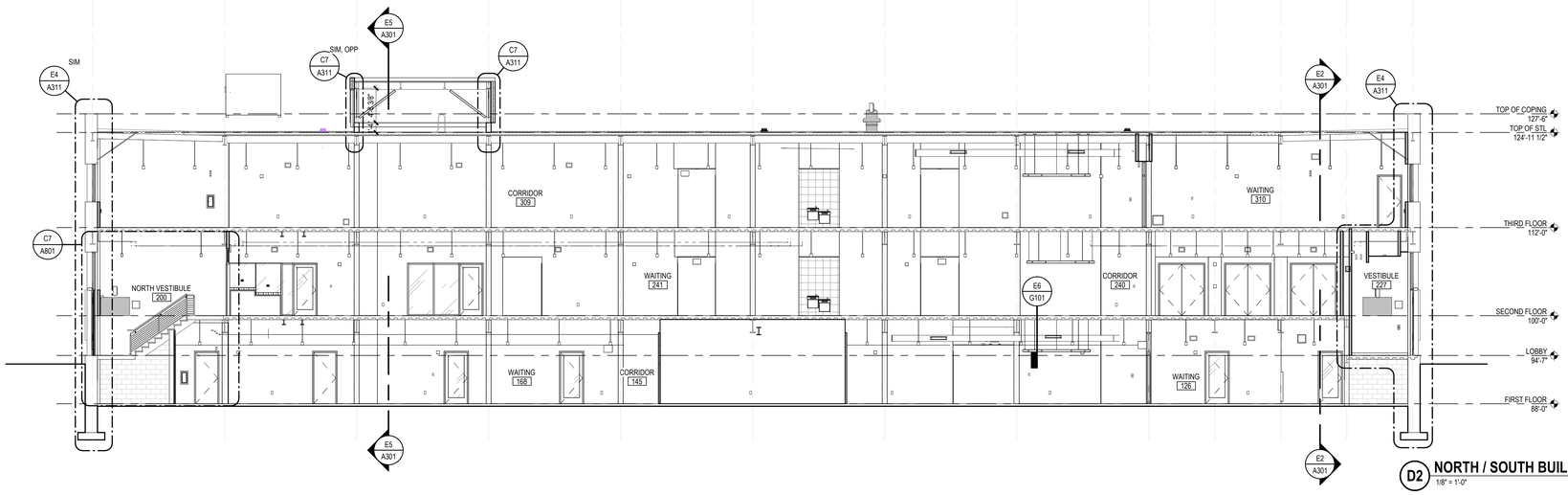
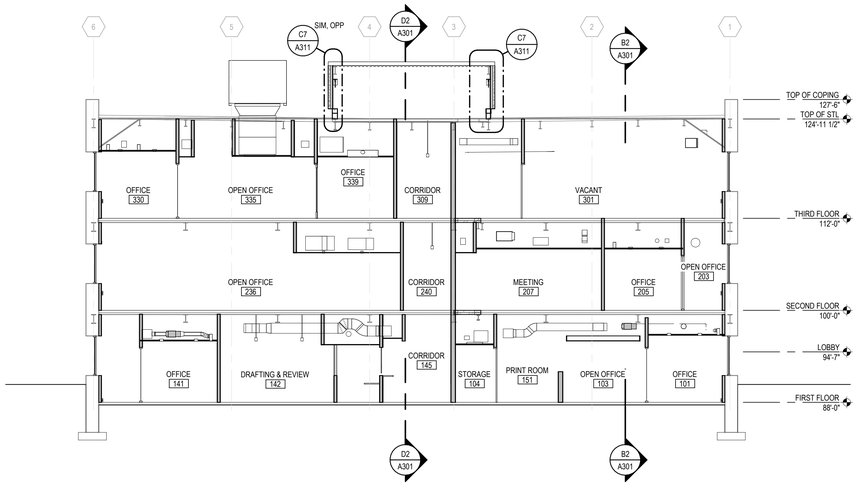


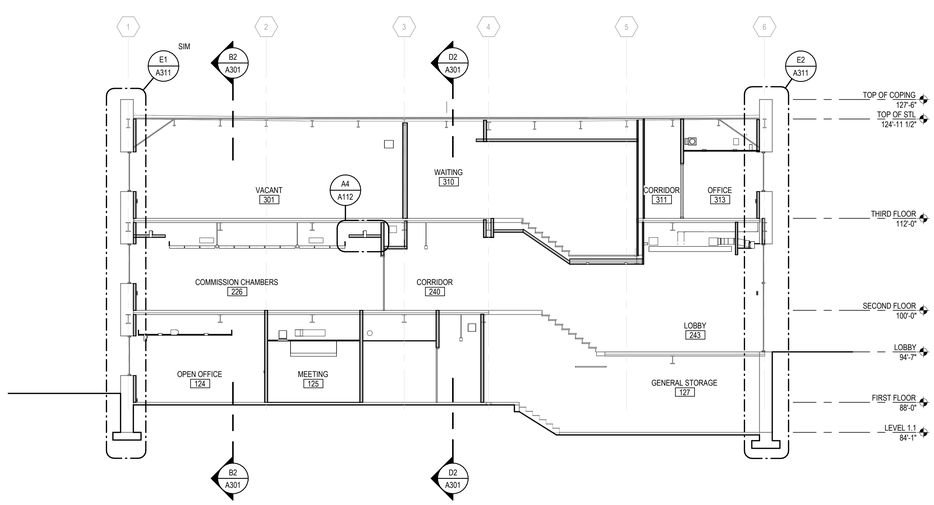
B2 NORTH / SOUTH BUILDING SECTION
1/8" = 1'-0"



D2 NORTH / SOUTH BUILDING SECTION
1/8" = 1'-0"



E5 EAST / WEST BUILDING SECTION 2
1/8" = 1'-0"



E2 EAST / WEST BUILDING SECTION
1/8" = 1'-0"

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PROFESSIONAL
R. RACLAWSKI
DRAWN BY
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CHECKED BY
D. SNYDER

BUILDING SECTIONS
A301

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BUILDING SECTIONS

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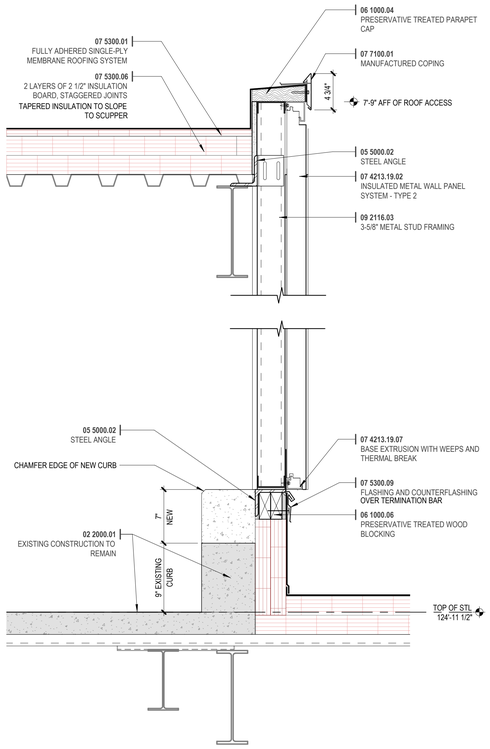
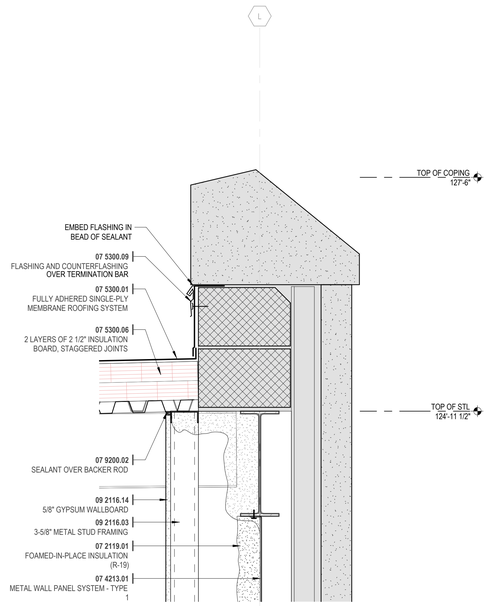
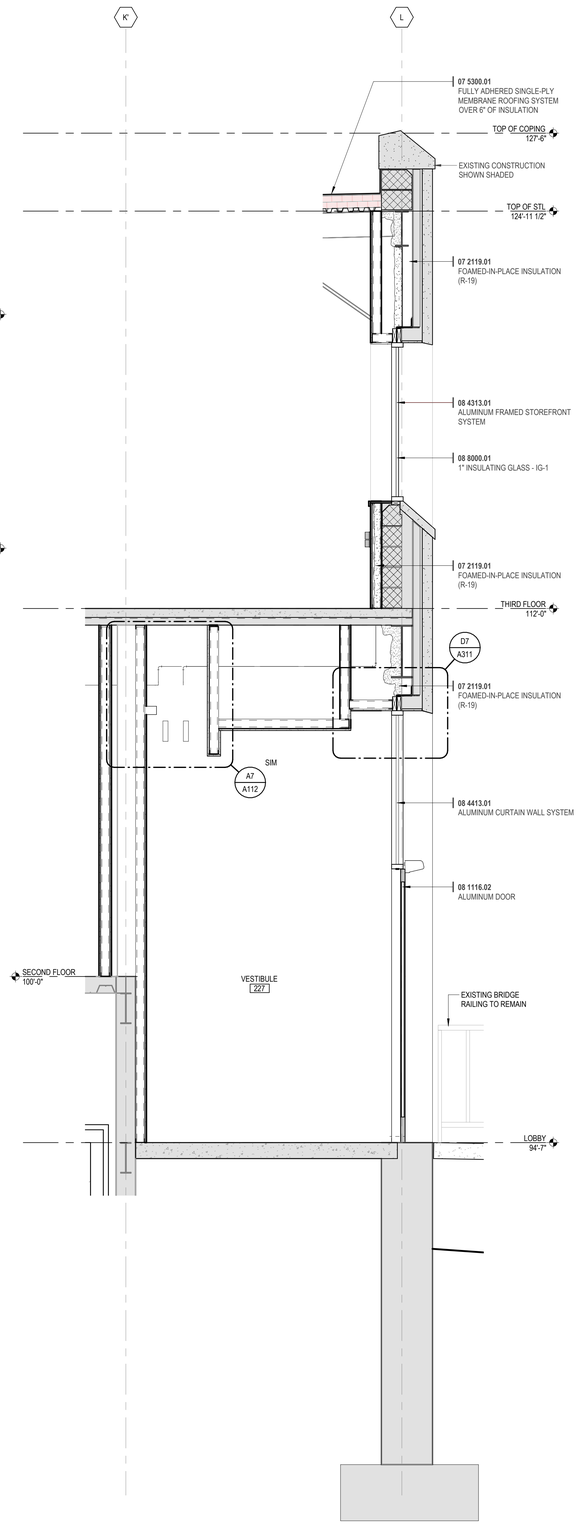


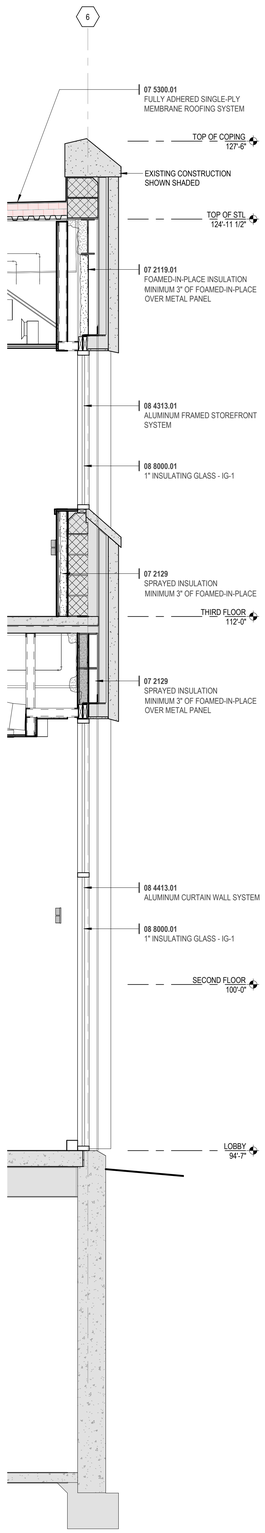
C7 WALL SECTION AT PENTHOUSE
1 1/2" = 1'-0"



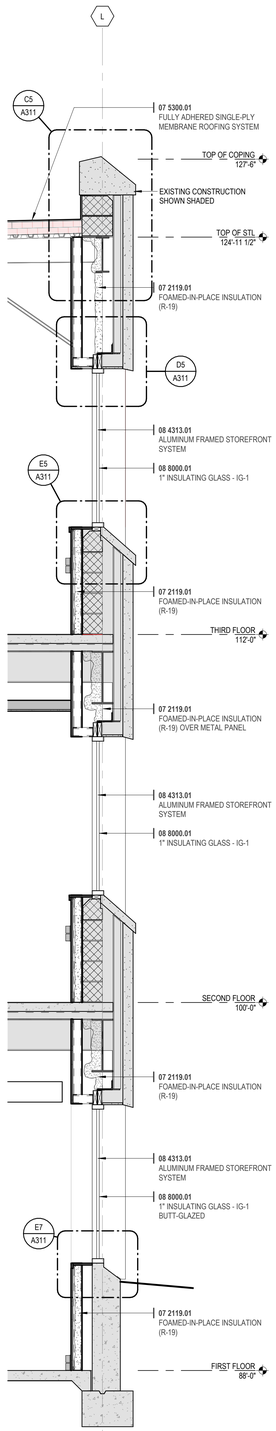
C5 TOP OF WALL DETAIL
1 1/2" = 1'-0"



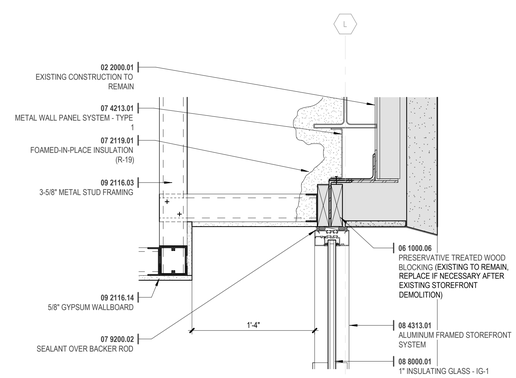
E4 WALL SECTION AT ENTRANCE
1/2" = 1'-0"



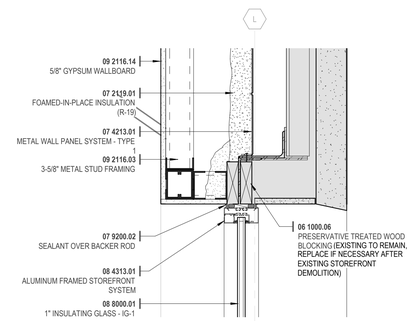
E2 WALL SECTION AT LOBBY
1/2" = 1'-0"



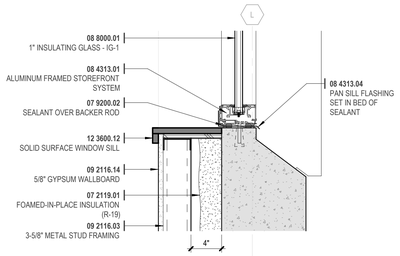
E1 WALL SECTION TYP
1/2" = 1'-0"



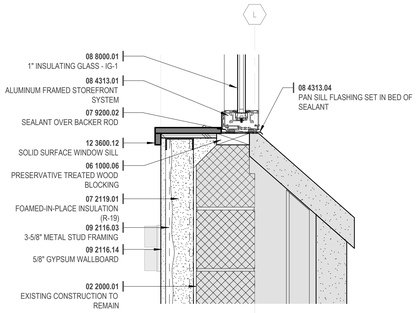
D7 TYPICAL CURTAINWALL HEAD
1 1/2" = 1'-0"



D5 TYPICAL STOREFRONT HEAD
1 1/2" = 1'-0"



E7 STOREFRONT SILL AT CONCRETE
1 1/2" = 1'-0"



E5 TYPICAL STOREFRONT SILL
1 1/2" = 1'-0"

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SECTION DETAILS

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ISABELLA COUNTY
ADMINISTRATION BUILDING INTERIOR RENOVATION
200 N. MAIN STREET
MT PLEASANT, MI 48858

NOT FOR CONSTRUCTION

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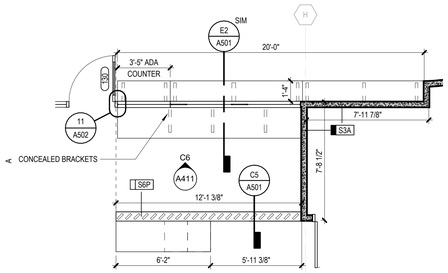
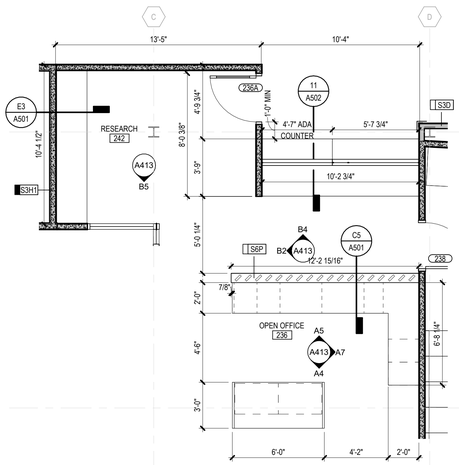
ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARRIOS
CHECKED BY
D. SNYDER

EXTERIOR DETAILS
A311



A7 ENLARGED PLAN - OPEN OFFICE 130
1/4" = 1'-0"



B5 ENLARGED PLAN - OPEN OFFICE 236
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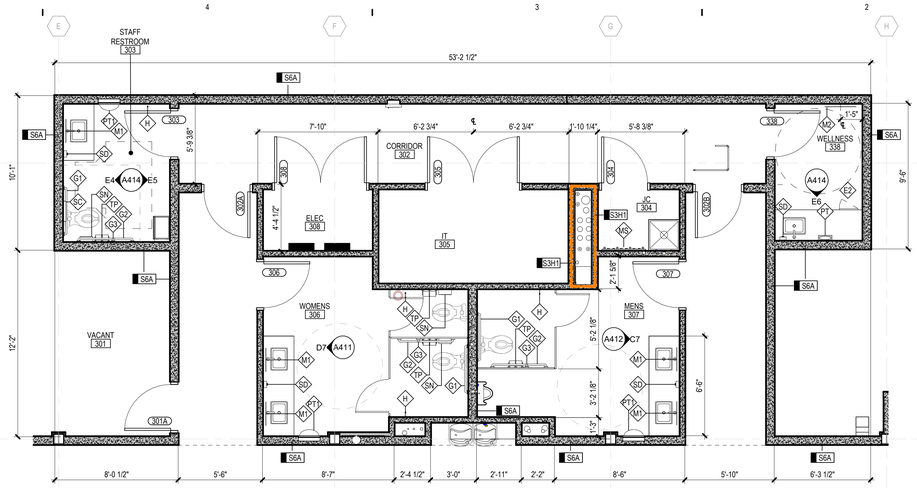
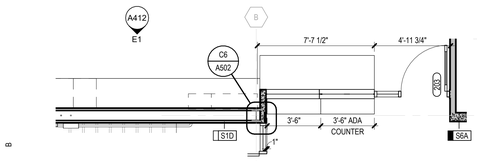


B2 ENLARGED THIRD FLOOR RESTROOMS
1/4" = 1'-0"



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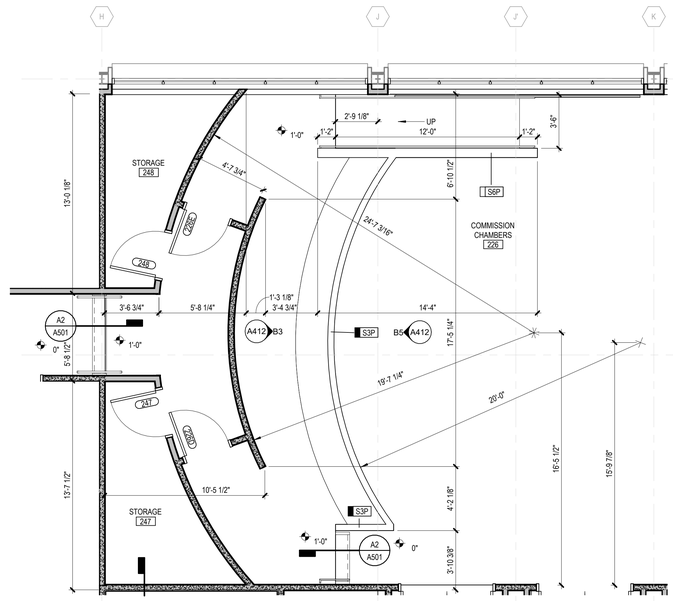

D7 ENLARGED COMMISSION CHAMBERS
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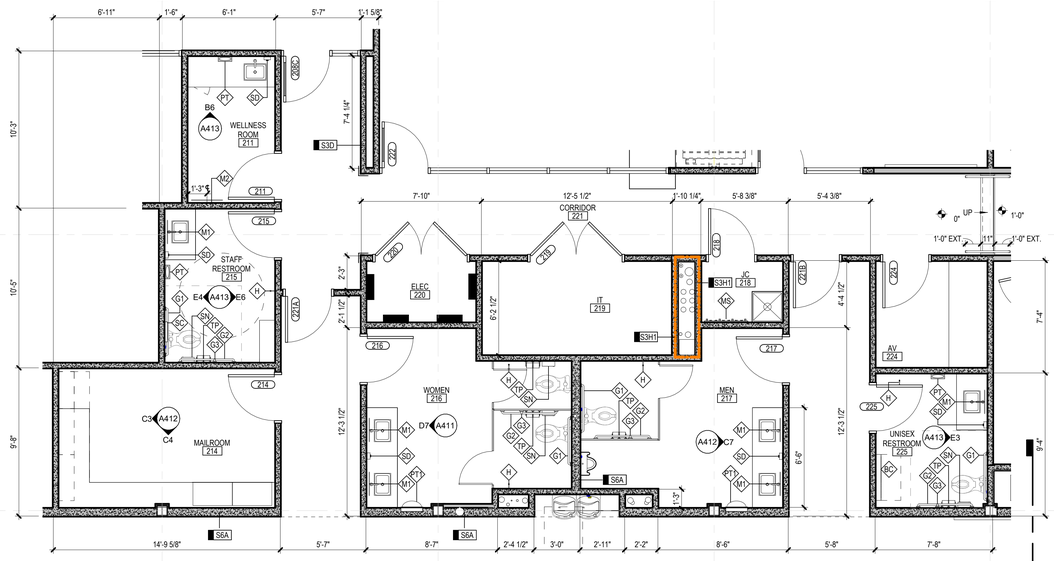

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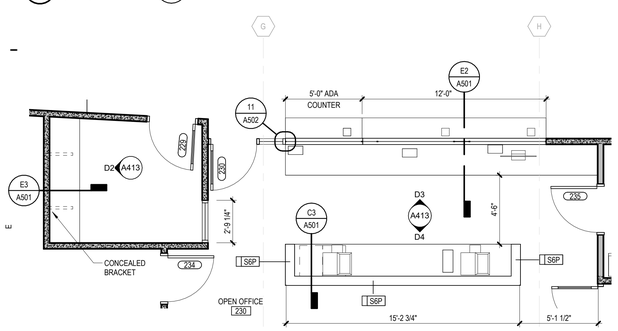

E7 ENLARGED PLAN - OPEN OFFICE 230
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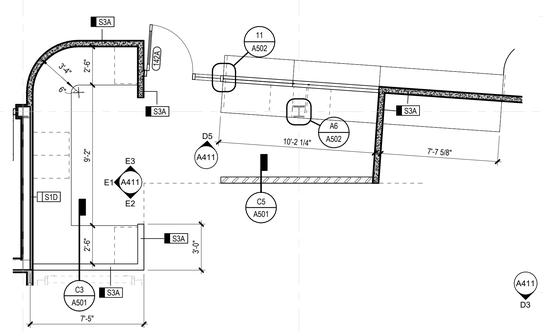
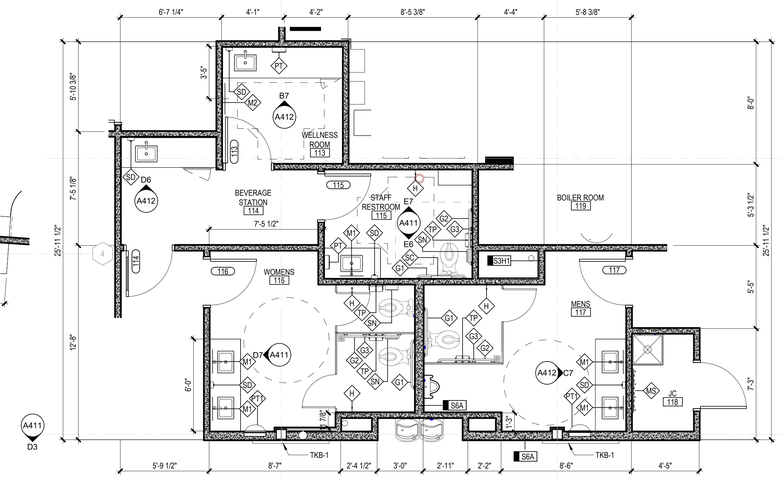


E5 ENLARGED PLAN - DRAFTING & REVIEW
1/4" = 1'-0"



E2 ENLARGED FIRST FLOOR RESTROOMS
1/4" = 1'-0"

INTERIOR PARTITION GENERAL NOTES

EXISTING WALL CONSTRUCTION
NEW STUD WALL CONSTRUCTION
NEW MASONRY WALL CONSTRUCTION

1. CONSTRUCT ALL WALLS TIGHT TO DECK ABOVE AND EXTEND INTO DECK FLUTES AND WEBS OF STEEL MEMBERS UNLESS OTHERWISE NOTED.
2. PROVIDE DEFLECTION TRACK AT THE TOP OF ALL INTERIOR NON-BEARING METAL STUD WALLS CAPABLE OF ACCOMMODATING 1" ROOF/FLOOR DEFLECTION. REFER TO DETAILS C6/G101 FOR HEAD OF WALL CONDITION.
3. REFER TO CODE COMPLIANCE PLAN FOR RATED WALL LOCATIONS. FIRE RATED AND SMOKE RESISTANT ASSEMBLIES SHALL BE CONTINUOUS, WITH OTHER PARTITIONS ABUTTING THEM.
4. PROVIDE FIRESTOPPING/ SMOKE SEALANT AT ALL PENETRATIONS THROUGH FIRE RATED AND SMOKE RESISTANT ASSEMBLIES, CORRIDORS, AND FLOORS WITH OCCUPIABLE SPACES ABOVE AND BELOW.
5. PROVIDE ACOUSTICAL SEALANT AT ALL WALLS WITH ACOUSTICAL INSULATION.
6. PROVIDE 5/8" WATER RESISTANT GYPSUM WALLBOARD AT ALL WALLS OF TOILET ROOMS, WALLS RECEIVING TILE, AND WALLS BEHIND AND ADJACENT TO SINKS.
7. PROVIDE 5/8 TILE BACKER AT ALL WALLS OF SHOWER ENCLOSURES.
8. REFER TO STRUCTURAL DRAWINGS FOR MASONRY REINFORCING AND GROUTING.
9. PROVIDE BULLNOSE CONCRETE MASONRY UNITS AT EXPOSED SILLS AND AT ALL INTERIOR EXPOSED VERTICAL CORNERS, INCLUDING WINDOW AND DOOR JAMBS.
10. ALL WALLS ARE TYPE S3A WITH ACOUSTICAL INSULATION UNLESS NOTED OTHERWISE.

INTERIOR PARTITION TAG LEGEND

CORE MATERIAL
S - STEEL STUDS
W - WOOD STUDS
C - CONCRETE
M - MASONRY
H - CH / SHAFTWALL

ACOUSTICAL INSULATION
PROVIDE ACOUSTICAL INSULATION AT TAGGED LOCATIONS

PARTITION TYPE SUFFIX
REFER TO SCHEDULE BELOW

M12A

CORE SIZE (NOMINAL)

	S	W	C	M	H
0	7/8"				
1	1 5/8"				
2	2 1/2"	2x (flat)			2 1/2"
3	3 5/8"				
4	4"	2x4		4"	4"
5					
6	6"	2x6	6"	6"	6"
7					
8	8" CFMF	2x8	8"	8"	
9					
10			10"	10"	
11					
12			12"	12"	

FLOOR PLAN LEGEND

INFILLED PORTION OF EXISTING SLAB

NEW 1 HR RATED PARTITION

INTERIOR PARTITION TYPE SUFFIXES

A	5/8" GYPSUM BOARD ON BOTH SIDES; EXTEND TO DECK (OR HARD CEILING WHERE IT OCCURS)
B	5/8" GYPSUM BOARD ON BOTH SIDES; EXTEND TO 6" ABOVE CEILING (OR HARD CEILING WHERE IT OCCURS)
D	5/8" GYPSUM BOARD ON ROOM SIDE ONLY; EXTEND TO DECK
F1	(1) LAYER 5/8" GYPSUM BOARD ON BOTH SIDES; EXTEND TO DECK ABOVE; 1 HR RATED UL DESIGN #U419
H1	(1) LAYER 5/8" GYPSUM BOARD ON ROOM SIDE, 1" SHAFT LINER TO DECK ABOVE ON OTHER SIDE; 1 HR RATED UL DESIGN #U415-A
P	PARTIAL HEIGHT WALL SAME AS "A", REFER TO DETAIL ON A501
S1	ACOUSTICAL STUD ASSEMBLY WITH SOUND DEADENING GYPSUM BOARD OVER RESILIENT CHANNELS (ONE SIDE) AND ACOUSTICAL SEALANT, TOP AND BOTTOM

RESTROOM ACCESSORIES

MARK	MODEL	MANUFACTURER	DESCRIPTION
BC	KB200	Koala Care Products	BABY CHANGING STATION
G1	B-5806 24"	BOBRICK	36" GRAB BAR
G2	B-5806 24"	BOBRICK	42" GRAB BAR
G3	B-6806 18"	BOBRICK	18" GRAB BAR VERTICAL
H	B-6727	BOBRICK	COAT HOOK @ 5'
M1	B-290	BOBRICK	WELDED FRAME MIRROR 18" X 36"
M2	B-290	BOBRICK	WELDED FRAME MIRROR 24" X 72" MOUNT AT 6" AFF
MS	B-224	BOBRICK	SHELF WITH MOP AND BROOM HOLDERS AND RAG HOOKS
PT	B4262	BOBRICK	SURFACE MOUNTED PAPER TOWEL DISPENSER
PT1	B-3944	BOBRICK	RECESSED PAPER TOWEL DISPENSER
SC	B-221	BOBRICK	SURFACE MOUNT SEAT COVER DISPENSER
SD	B-4112	BOBRICK	SURFACE MOUNT SOAP DISPENSER
SN	B-270	BOBRICK	SANITARY NAPKIN DISPOSAL
TP	B-7686	BOBRICK	SURFACE MOUNT TOILET TISSUE DISPENSER

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10/13/2026 BIDS

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23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARROS
CHECKED BY
D. SNYDER

ENLARGED PLANS AND DETAILS
A401

10/13/2026 3:13:46 PM Autodesk Docs://23000001 - Isabella County Admin Building/23000001-ICAB-ARCH.rvt
BY: N. BARROS
SHEET: A401 ENLARGED PLANS AND DETAILS
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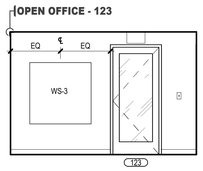
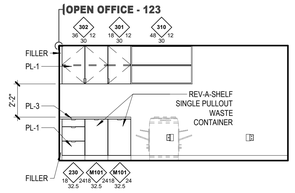


A7 FACILITIES OPEN OFFICE
1/4" = 1'-0"



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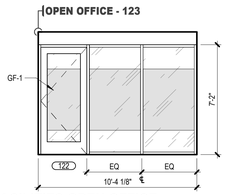

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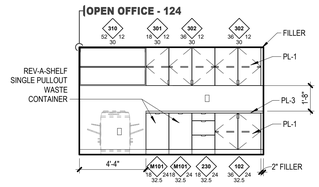

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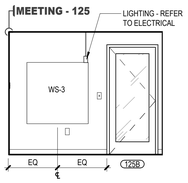

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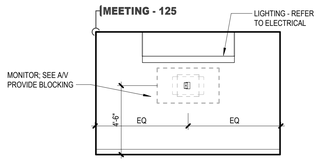

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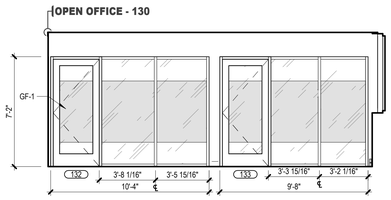
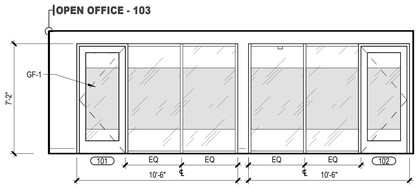


B7 PARKS AND REC OPEN OFFICE
1/4" = 1'-0"



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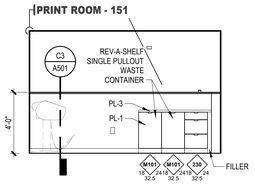

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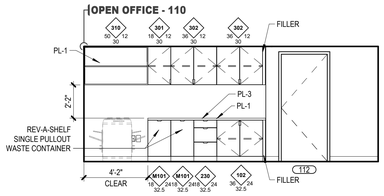

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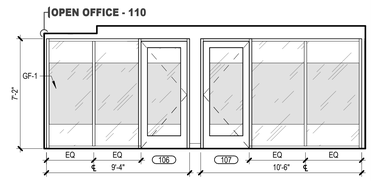

B2 IT OPEN OFFICE
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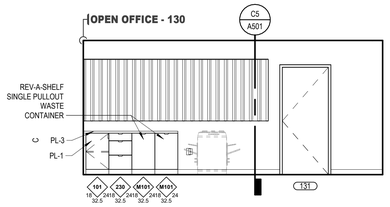

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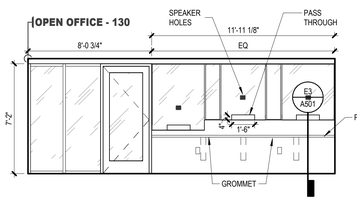

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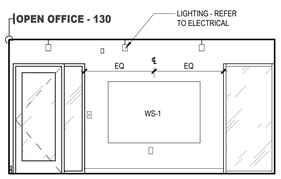

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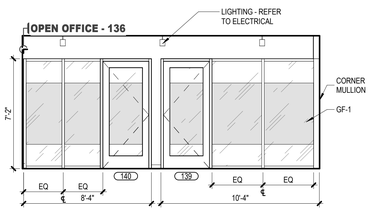

C3 MSUE OPEN OFFICE
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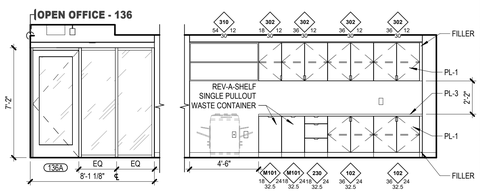

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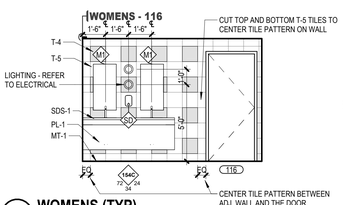

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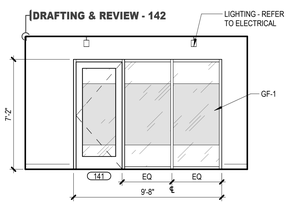
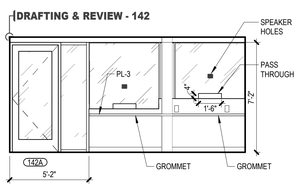


D6 REGISTER OF DEEDS DRAFTING & REVIEW
1/4" = 1'-0"



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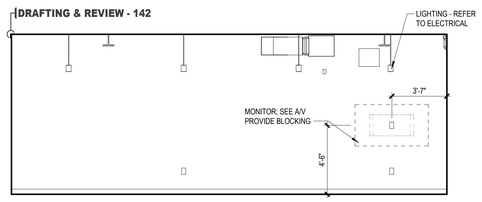

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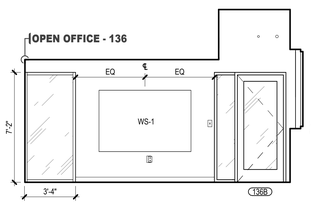

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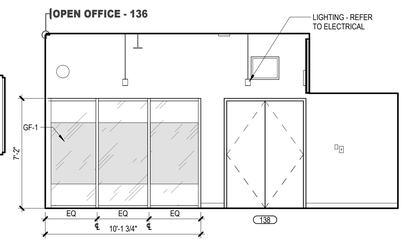

D1 MSUE OPEN OFFICE
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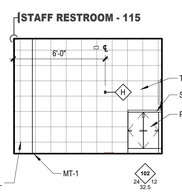
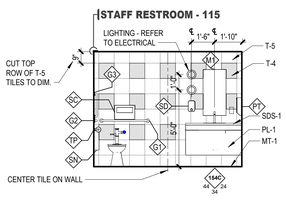


E7 STAFF RESTROOM
1/4" = 1'-0"



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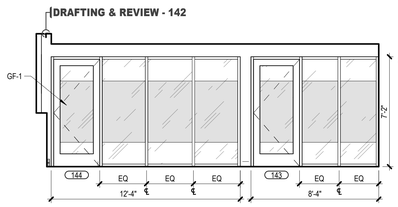

E5 REGISTER OF DEEDS DRAFTING & REVIEW
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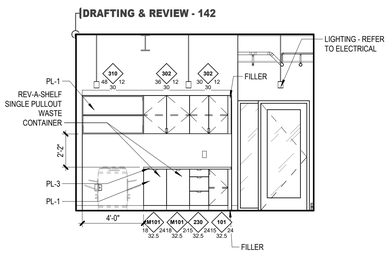

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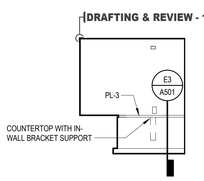

E3 DRAFTING & REVIEW
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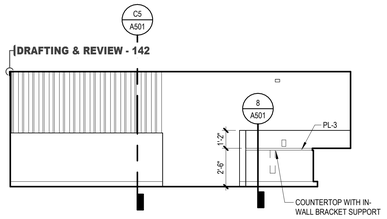
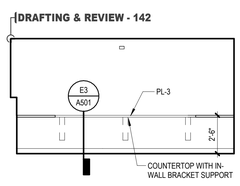


E2 DRAFTING & REVIEW
1/4" = 1'-0"



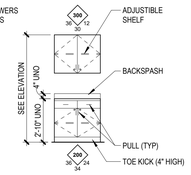
E1 DRAFTING & REVIEW
1/4" = 1'-0"

CASEWORK LEGEND AND NOTES

1. ALL SHELVES ARE ADJUSTABLE UNLESS NOTED OTHERWISE.
2. FINISH EXPOSED PANELS, CABINET ENDS, AND INTERIORS, TO MATCH ADJACENT FACES.
3. PROVIDE EQUAL SIZED FILLER AT WALL AND BETWEEN CABINETS AS REQUIRED FOR DOOR CLEARANCE. MINIMUM 1" AND MAXIMUM 6".
4. PROVIDE FINISH BASE AT ALL BASE CABINETS TO MATCH ADJACENT WALL BASE .
5. PROVIDE SEALANT AT BOTTOM, TOP AND ENDS OF BACKSPLASHES AND SIDESPLASHES.

CABINET TYPES
100 BASE CABINETS WITHOUT DRAWERS
200 BASE CABINETS WITH DRAWERS
300 WALL CABINETS
400 TALL CABINETS
500 WARDROBE CABINETS
600 LIBRARY CABINETS
700 MISCELLANEOUS CABINETS

CABINET TAG
CABINET TYPE
WIDTH IN INCHES
HEIGHT IN INCHES
DEPTH IN INCHES



INTERIOR ELEVATION GENERAL NOTES

1. REFER TO DRAWING A122 FOR FINISH MATERIAL LIST AND DETAILED FINISH INFORMATION.
2. REFER TO CASEWORK LEGEND ON THIS SHEET FOR TYPICAL CASEWORK ANNOTATIONS AND SYMBOLOGY.
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RESTROOM ACCESSORIES

MARK	MODEL	MANUFACTURER	DESCRIPTION
BC	KB200	Koala Care Products	BABY CHANGING STATION
G1	B-5806 24"	BOBRICK	36" GRAB BAR
G2	B-5806 24"	BOBRICK	42" GRAB BAR
G3	B-6806 18"	BOBRICK	18" GRAB BAR VERTICAL
H	B-6727	BOBRICK	COAT HOOK @ 5'
M1	B-290	BOBRICK	WELDED FRAME MIRROR 18" X 36"
M2	B-290	BOBRICK	WELDED FRAME MIRROR 24" X 72" MOUNT AT 6" AFF
MS	B-224	BOBRICK	SHELF WITH MOP AND BROOM HOLDERS AND RAG HOOKS
PT	B4262	BOBRICK	SURFACE MOUNTED PAPER TOWEL DISPENSER
PT1	B-3944	BOBRICK	RECESSED PAPER TOWEL DISPENSER
SC	B-221	BOBRICK	SURFACE MOUNT SEAT COVER DISPENSER
SD	B-4112	BOBRICK	SURFACE MOUNT SOAP DISPENSER
SN	B-270	BOBRICK	SANITARY NAPKIN DISPOSAL
TP	B-7686	BOBRICK	SURFACE MOUNT TOILET TISSUE DISPENSER

EQUIPMENT OF/CI

MARK	MODEL	MANUFACTURER	DESCRIPTION
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E4	MSER2090S	LG	MICROWAVE

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200 N. MAIN STREET
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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARROS
CHECKED BY
D. SNYDER

INTERIOR ELEVATIONS
A411

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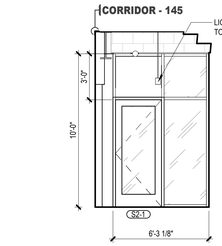
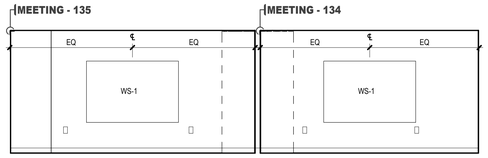


A7 CORRIDOR
1/4" = 1'-0"



A5 MEETING
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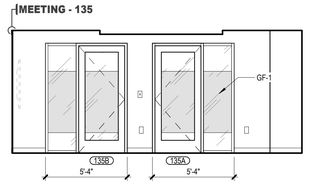

A4 MEETING
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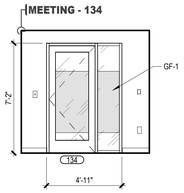
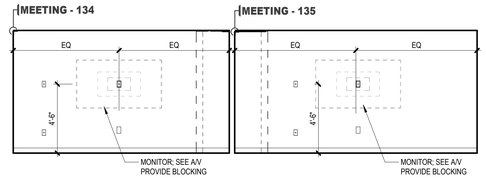


A3 MEETING
1/4" = 1'-0"



A2 MEETING
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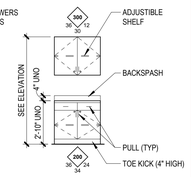

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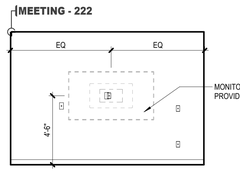
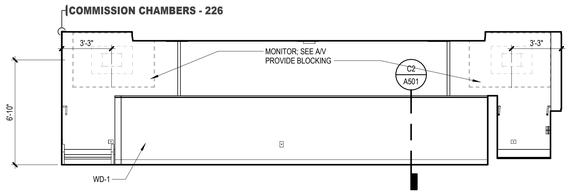
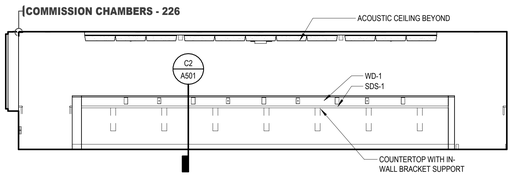
B7 WELLNESS ROOM
1/4" = 1'-0"



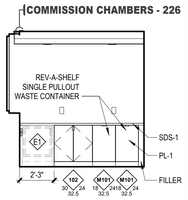
B6 MEETING
1/4" = 1'-0"



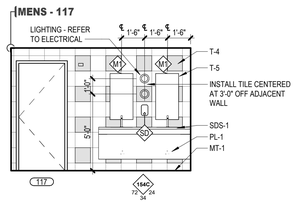
B5 COMMISSION CHAMBERS
1/4" = 1'-0"



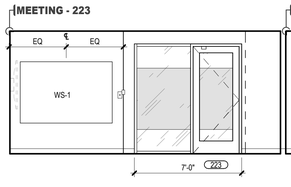
B3 COMMISSION CHAMBERS
1/4" = 1'-0"

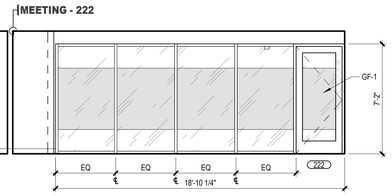


B2 COMMISSION CHAMBERS
1/4" = 1'-0"

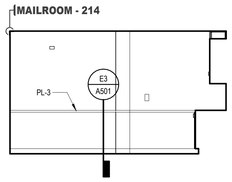


C7 MENS (TYP)
1/4" = 1'-0"

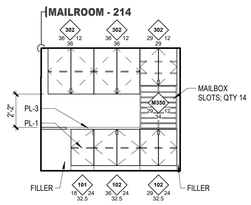




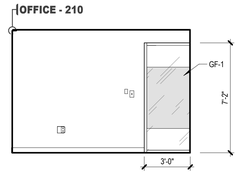
C5 MEETING
1/4" = 1'-0"



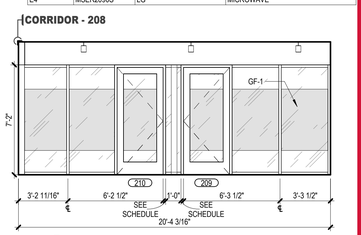
C4 MAILROOM
1/4" = 1'-0"



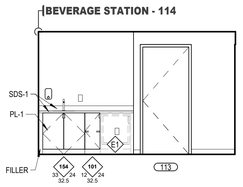
C3 MAILROOM
1/4" = 1'-0"



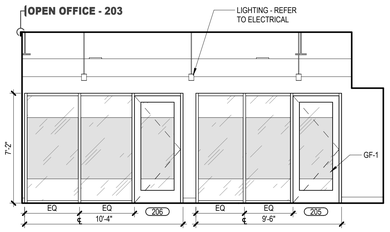
C2 VA OFFICE
1/4" = 1'-0"



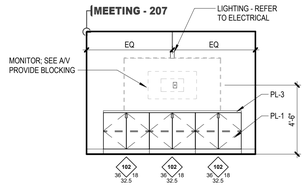
C1 CORRIDOR
1/4" = 1'-0"



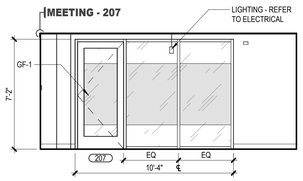
D6 BEVERAGE STATION
1/4" = 1'-0"



D5 TREASURER OPEN OFFICE
1/4" = 1'-0"



D4 MEETING
1/4" = 1'-0"



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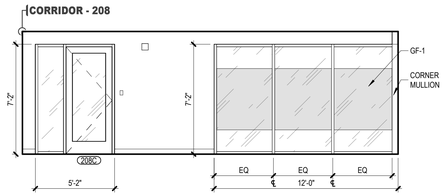
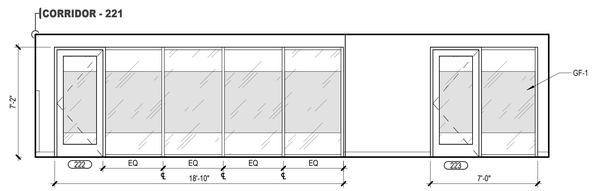
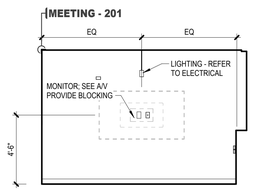


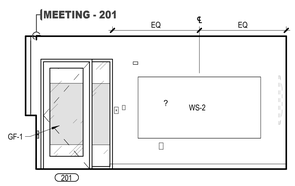
D1 CORRIDOR
1/4" = 1'-0"



E5 CORRIDOR
1/4" = 1'-0"



E4 TREASURER MEETING
1/4" = 1'-0"



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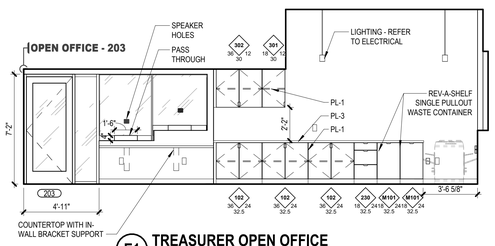

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1/4" = 1'-0"

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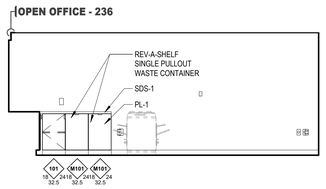

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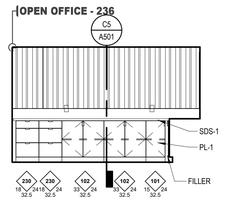

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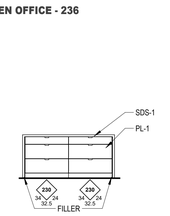
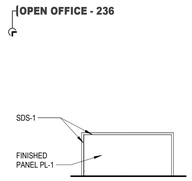


A4 OPEN OFFICE ISLAND
1/4" = 1'-0"



A3 OPEN OFFICE ISLAND
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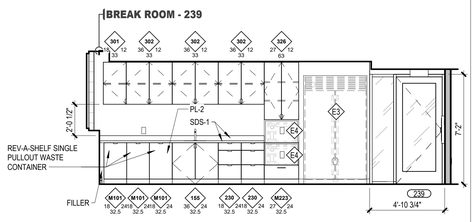

A2 BREAK ROOM
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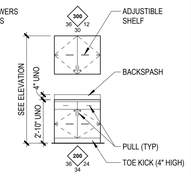

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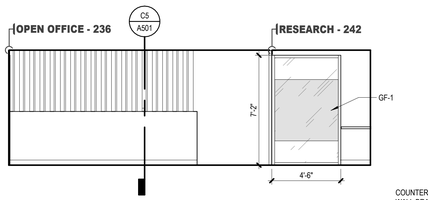
G2	B-5806 24"	BOBRICK	42" GRAB BAR
G3	B-6806 18"	BOBRICK	18" GRAB BAR VERTICAL
H	B-6727	BOBRICK	COAT HOOK @ 5'
M1	B-290	BOBRICK	WELDED FRAME MIRROR 18" X 36"
M2	B-290	BOBRICK	WELDED FRAME MIRROR 24" X 72" MOUNT AT 6" AFF
MS	B-224	BOBRICK	SHELF WITH MOP AND BROOM HOLDERS AND RAG HOOKS
PT	B4262	BOBRICK	SURFACE MOUNTED PAPER TOWEL DISPENSER
PT1	B-3944	BOBRICK	RECESSED PAPER TOWEL DISPENSER
SC	B-221	BOBRICK	SURFACE MOUNT SEAT COVER DISPENSER
SD	B-4112	BOBRICK	SURFACE MOUNT SOAP DISPENSER
SN	B-270	BOBRICK	SANITARY NAPKIN DISPOSAL
TP	B-7686	BOBRICK	SURFACE MOUNT TOILET TISSUE DISPENSER

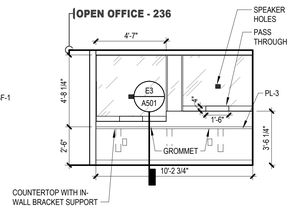
EQUIPMENT OF/CI

MARK	MODEL	MANUFACTURER	DESCRIPTION
E1	AL54	SUMMIT	UNDERCOUNTER REFRIGERATOR 24"
E2	FF1843BCSSADA	SUMMIT	UNDERCOUNTER REFRIGERATOR 18"
E3	SF5291-SRB5290	LIEBHERR	REFRIGERATOR
E4	MSER2090S	LG	MICROWAVE

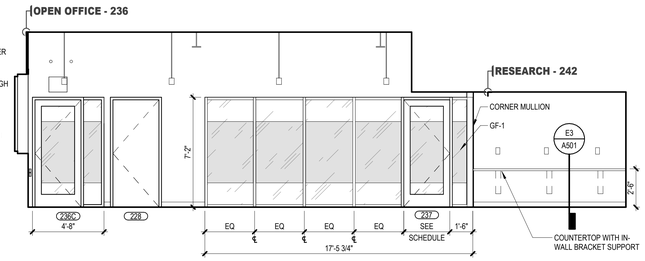
B6 WELLNESS - NORTH
1/4" = 1'-0"



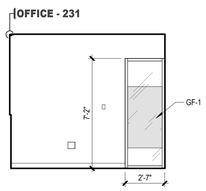
B5 OPEN OFFICE AND RESEARCH
1/4" = 1'-0"



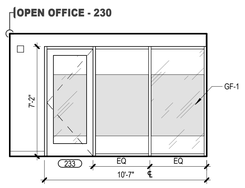
B4 OPEN OFFICE
1/4" = 1'-0"



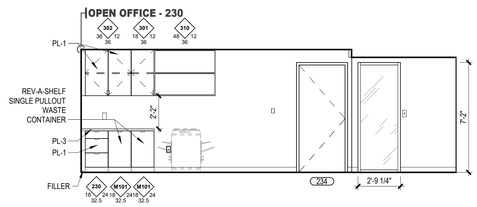
B2 OPEN OFFICE AND RESEARCH
1/4" = 1'-0"



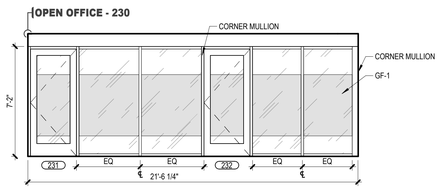
C7 OFFICE
1/4" = 1'-0"



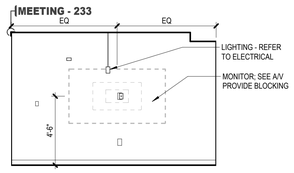
C6 CLERK OPEN OFFICE
1/4" = 1'-0"



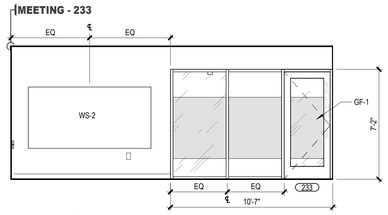
C4 CLERK OPEN OFFICE
1/4" = 1'-0"



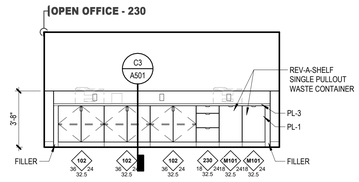
C2 CLERK OPEN OFFICE
1/4" = 1'-0"



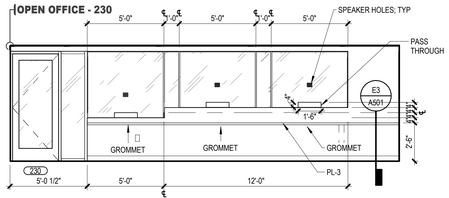
D7 CLERK MEETING
1/4" = 1'-0"



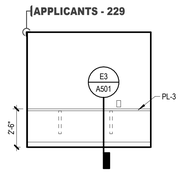
D6 CLERK MEETING
1/4" = 1'-0"



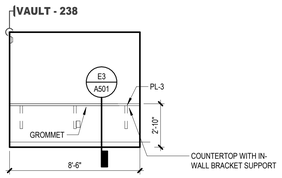
D4 OPEN WORK
1/4" = 1'-0"



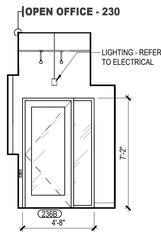
D3 OPEN OFFICE
1/4" = 1'-0"



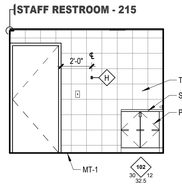
D2 APPLICANTS
1/4" = 1'-0"



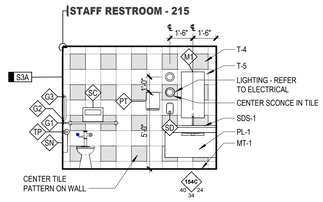
D1 VAULT
1/4" = 1'-0"



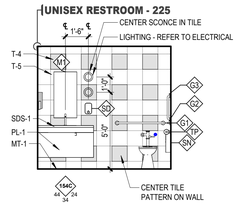
E7 OPEN OFFICE CORRIDOR
1/4" = 1'-0"



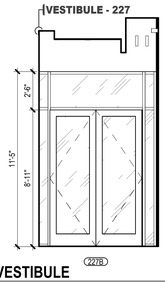
E6 STAFF RESTROOM
1/4" = 1'-0"



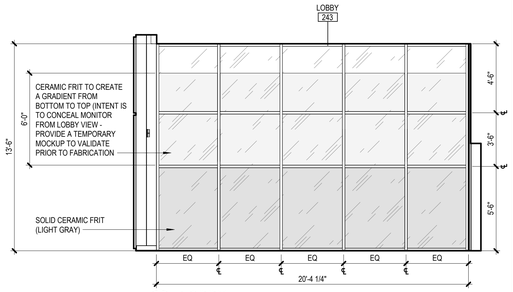
E4 STAFF RESTROOM
1/4" = 1'-0"



E3 UNISEX RESTROOM
1/4" = 1'-0"



E2 VESTIBULE
1/4" = 1'-0"



E1 LOBBY
1/4" = 1'-0"

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARRIOS
CHECKED BY
D. SNYDER

INTERIOR ELEVATIONS
A413

24.2.002
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BY: N.BARRIOS
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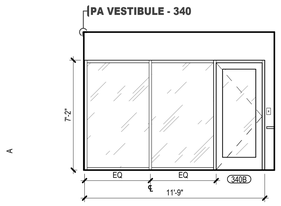
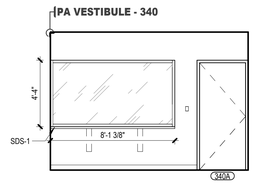
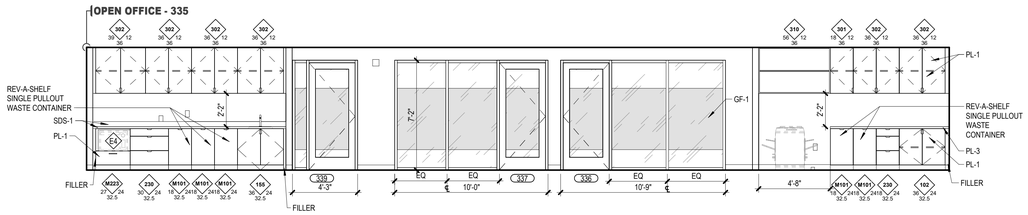


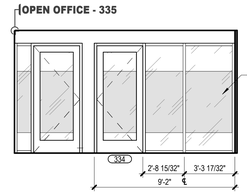
A7 PA LOBBY
1/4" = 1'-0"



A6 SERVICE COUNTER
1/4" = 1'-0"



A3 OPEN OFFICE
1/4" = 1'-0"



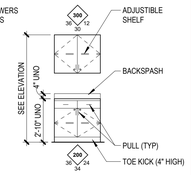
A2 OPEN OFFICE
1/4" = 1'-0"

CASEWORK LEGEND AND NOTES

1. ALL SHELVES ARE ADJUSTABLE UNLESS NOTED OTHERWISE.
2. FINISH EXPOSED PANELS, CABINET ENDS, AND INTERIORS, TO MATCH ADJACENT FACES.
3. PROVIDE EQUAL SIZED FILLER AT WALL AND BETWEEN CABINETS AS REQUIRED FOR DOOR CLEARANCE. MINIMUM 1" AND MAXIMUM 6".
4. PROVIDE FINISH BASE AT ALL BASE CABINETS TO MATCH ADJACENT WALL BASE.
5. PROVIDE SEALANT AT BOTTOM, TOP AND ENDS OF BACKSPLASHES AND SIDESPLASHES.

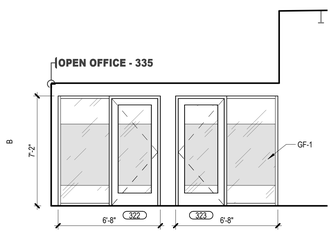
CABINET TYPES
100 BASE CABINETS WITHOUT DRAWERS
200 BASE CABINETS WITH DRAWERS
300 WALL CABINETS
400 TALL CABINETS
500 WARDROBE CABINETS
600 LIBRARY CABINETS
700 MISCELLANEOUS CABINETS

CABINET TAG
CABINET TYPE
WIDTH IN INCHES
HEIGHT IN INCHES
DEPTH IN INCHES

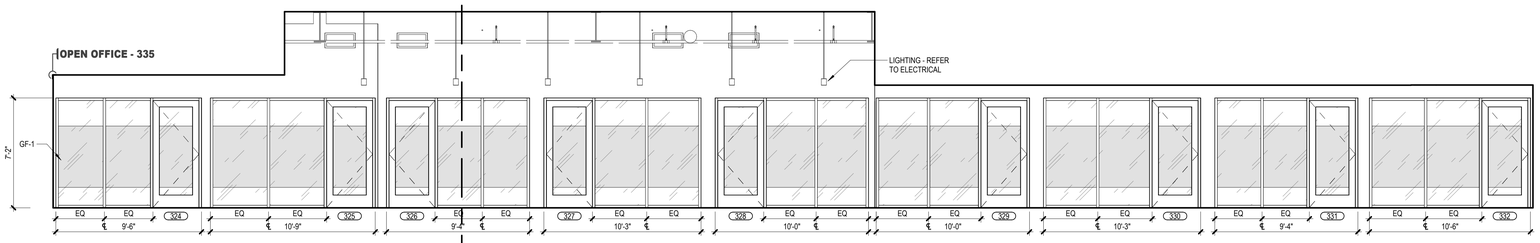


INTERIOR ELEVATION GENERAL NOTES

1. REFER TO DRAWING A122 FOR FINISH MATERIAL LIST AND DETAILED FINISH INFORMATION.
2. REFER TO CASEWORK LEGEND ON THIS SHEET FOR TYPICAL CASEWORK ANNOTATIONS AND SYMBOLOGY.
3. ALL COUNTERTOPS SHALL BE 34" AFF (AS REQUIRED FOR ACCESSIBILITY) UNLESS NOTED OTHERWISE.
4. ALL WORK SURFACES SHALL BE 30" AFF UNLESS NOTED OTHERWISE.
5. EXPOSED OUTSIDE CORNERS OF COUNTERTOPS SHALL BE EASED. REFER TO DRAWINGS FOR ADDITIONAL RADIUS REQUIREMENTS.



B7 OPEN OFFICE
1/4" = 1'-0"



B2 OPEN OFFICE
1/4" = 1'-0"

RESTROOM ACCESSORIES

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PT1	B-3944	BOBRICK	RECESSED PAPER TOWEL DISPENSER
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EQUIPMENT OF/CI

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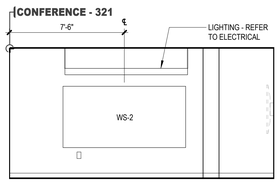
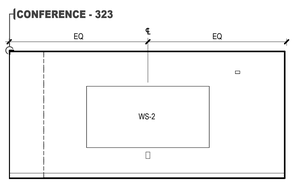
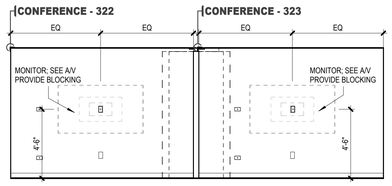


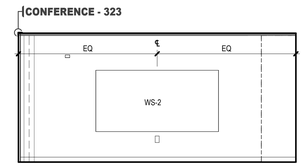
C6 ADMIN CONFERENCE
1/4" = 1'-0"



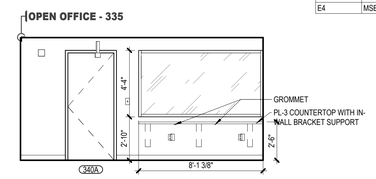
C5 PA CONFERENCE
1/4" = 1'-0"



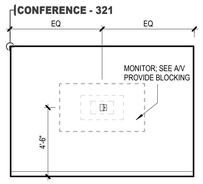
C4 PA CONFERENCE
1/4" = 1'-0"



C3 PA CONFERENCE
1/4" = 1'-0"

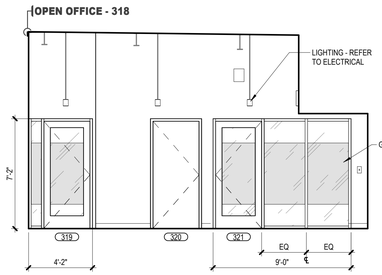


C2 OPEN OFFICE
1/4" = 1'-0"

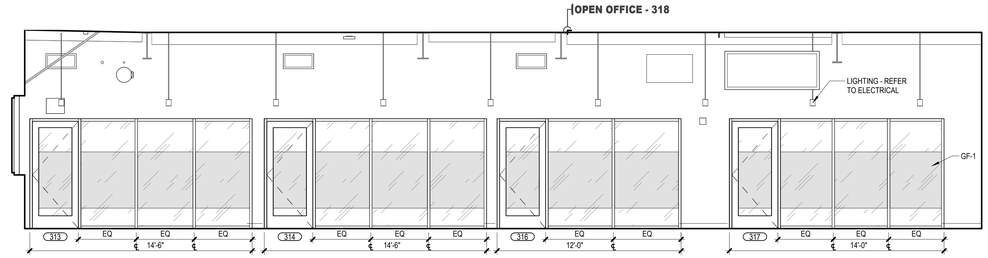


D6 ADMIN CONFERENCE
1/4" = 1'-0"

D5 OPEN OFFICE
1/4" = 1'-0"

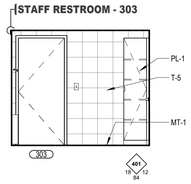


D4 OPEN OFFICE
1/4" = 1'-0"

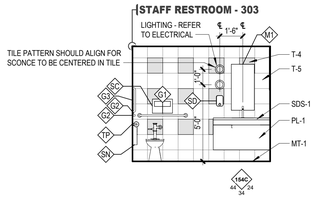


D1 OPEN OFFICE
1/4" = 1'-0"

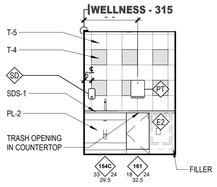
E6 WELLNESS ROOM
1/4" = 1'-0"



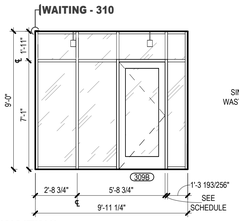
E5 STAFF RESTROOM
1/4" = 1'-0"



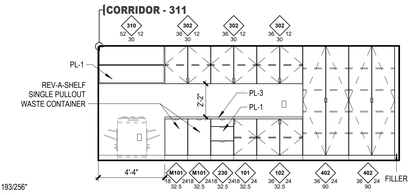
E4 STAFF RESTROOM
1/4" = 1'-0"



E3 WELLNESS ROOM
1/4" = 1'-0"



E2 WAITING
1/4" = 1'-0"



E1 CORRIDOR
1/4" = 1'-0"

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PROGRESSIVE COMPANIES
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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARRIOS
CHECKED BY
D. SNYDER

INTERIOR ELEVATIONS
A414

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INTERIOR ELEVATIONS

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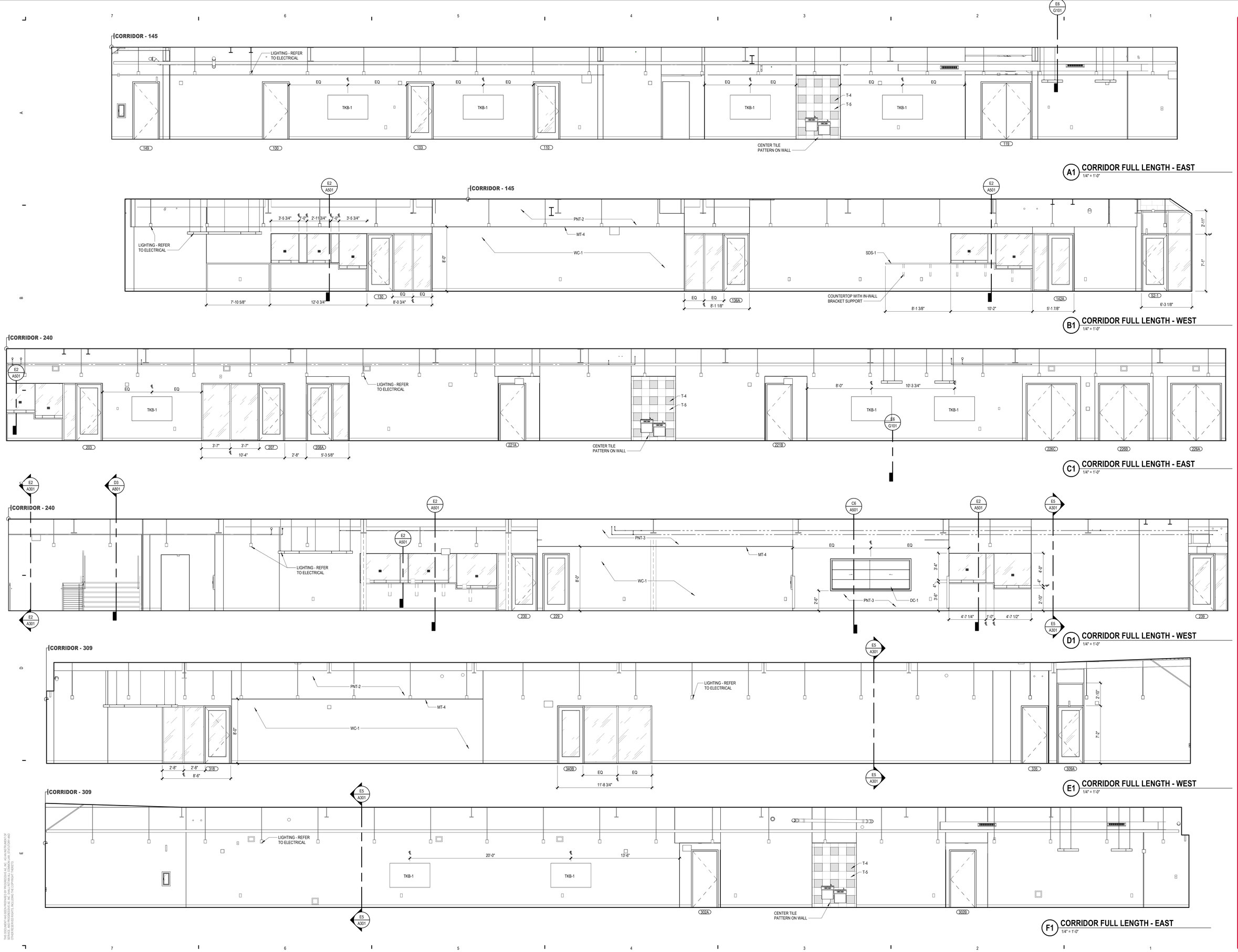

A1 CORRIDOR FULL LENGTH - EAST
1/4" = 1'-0"

B1 CORRIDOR FULL LENGTH - WEST
1/4" = 1'-0"

C1 CORRIDOR FULL LENGTH - EAST
1/4" = 1'-0"

D1 CORRIDOR FULL LENGTH - WEST
1/4" = 1'-0"

E1 CORRIDOR FULL LENGTH - WEST
1/4" = 1'-0"

F1 CORRIDOR FULL LENGTH - EAST
1/4" = 1'-0"

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ADMINISTRATION BUILDING INTERIOR RENOVATION
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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARRIOS
CHECKED BY
D. SNYDER

INTERIOR ELEVATIONS
A415

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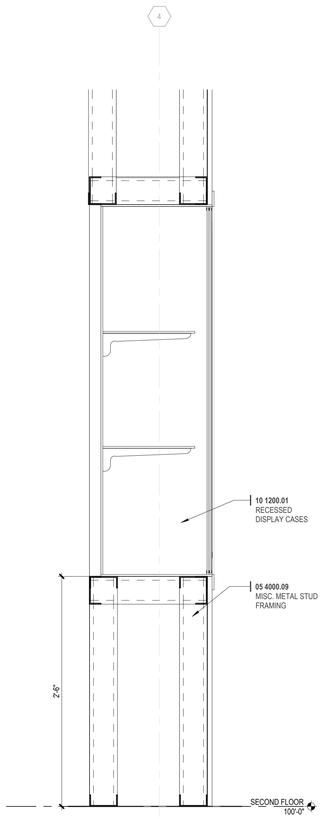
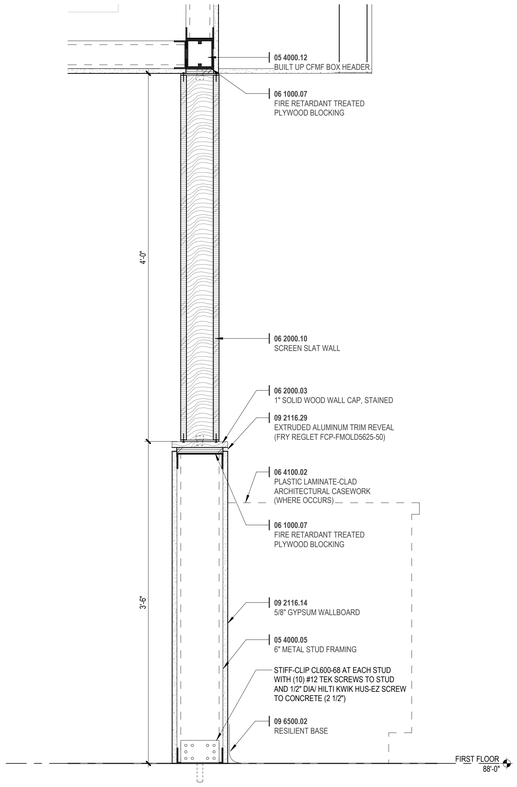
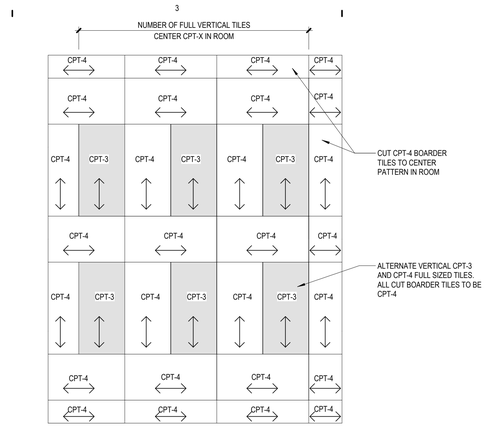


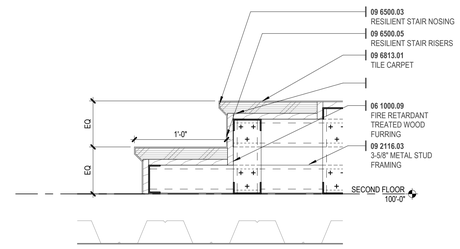
C6 RECESSED DISPLAY CABINET
1 1/2" = 1'-0"



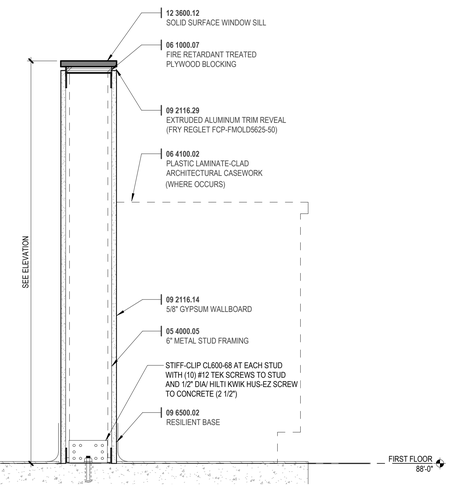
C5 INTERIOR DETAIL AT SLAT WALL
1 1/2" = 1'-0"



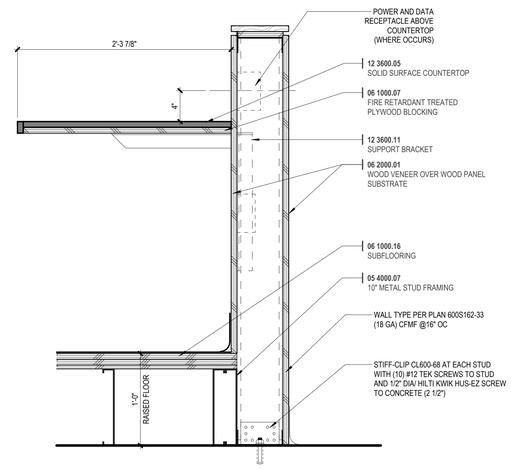
A3 MEETING ROOM CARPET PATTERN
1/2" = 1'-0"



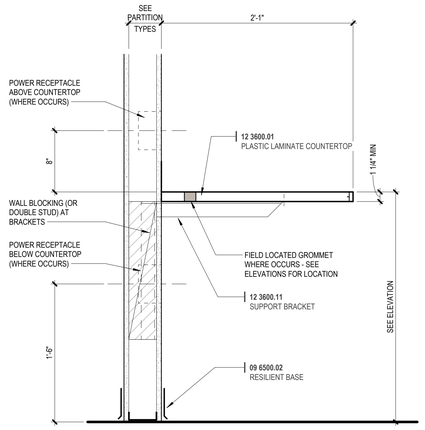
A2 DETAIL AT COMISSION CHAMBER STAIRS
1 1/2" = 1'-0"



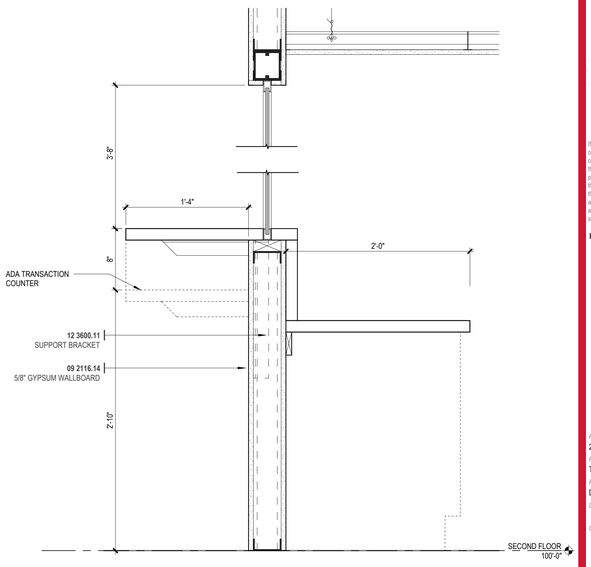
C3 INTERIOR DETAIL - PARTIAL HEIGHT WALL
1 1/2" = 1'-0"



C2 COMISSION CHAMBER WORKSURFACE
1 1/2" = 1'-0"



E3 TYPICAL WORK SURFACE
1 1/2" = 1'-0"



E2 INTERIOR DETAIL AT STANDING COUNTER
1 1/2" = 1'-0"

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
Designer
DRAWN BY
CHECKED BY

INTERIOR DETAILS
A501

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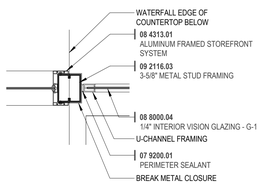
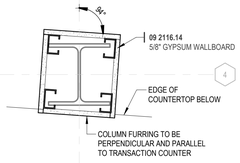
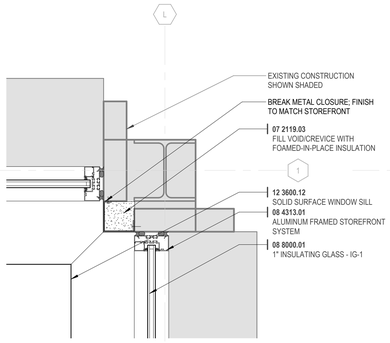


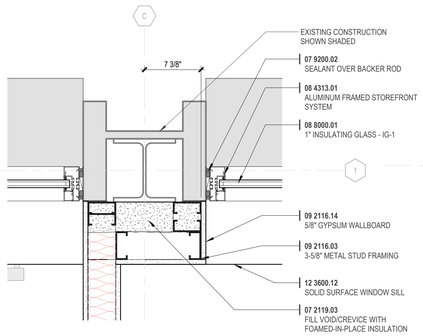
11 DETAIL AT TRANSACTION COUNTER
1 1/2" = 1'-0"



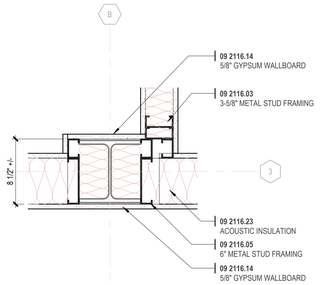
A6 COLUMN AT COUNTERTOP
1 1/2" = 1'-0"



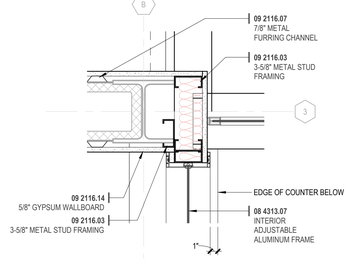
A5 CORNER COLUMN DETAIL
1 1/2" = 1'-0"



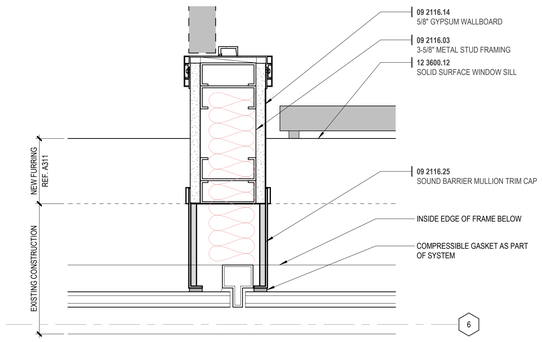
A4 COLUMN FURRING AT WINDOW SILL (TYP)
1 1/2" = 1'-0"



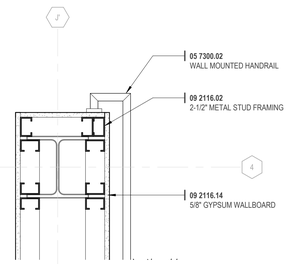
A2 DETAIL AT COLUMN FURRING (TYP)
1 1/2" = 1'-0"



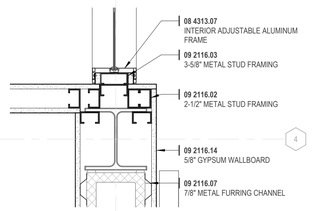
C6 PLAN DETAIL AT TRANSACTION WINDOW
1 1/2" = 1'-0"



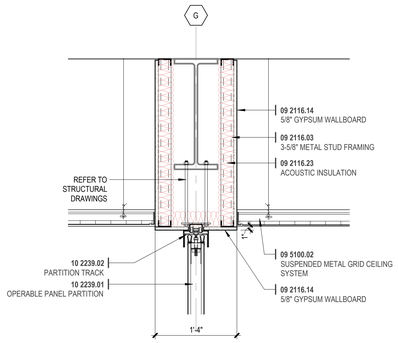
C5 SOUND BARRIER MULLION
3" = 1'-0"



C4 RAILING AT COLUMN
1 1/2" = 1'-0"

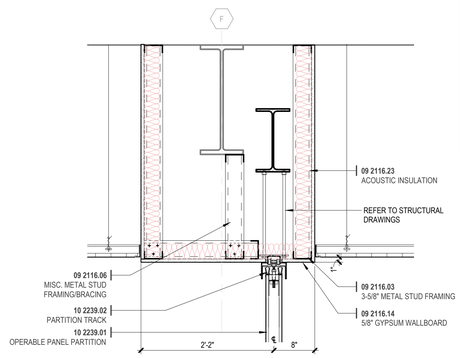


C2 COLUMN FURRING AT SHAFT WALL (TYP)
1 1/2" = 1'-0"



D4 FOLDING PARTITION AT SECOND FLOOR
1" = 1'-0"

SIM AT THIRD FLOOR



D2 FOLDING PARTITION AT FIRST FLOOR
1" = 1'-0"

INTERIOR PARTITION GENERAL NOTES

EXISTING WALL CONSTRUCTION — NEW STUD WALL CONSTRUCTION — NEW MASONRY WALL CONSTRUCTION

1. CONSTRUCT ALL WALLS TIGHT TO DECK ABOVE AND EXTEND INTO DECK FLUTES AND WEBS OF STEEL MEMBERS UNLESS OTHERWISE NOTED.
2. PROVIDE DEFLECTION TRACK AT THE TOP OF ALL INTERIOR NON-BEARING METAL STUD WALLS CAPABLE OF ACCOMMODATING 1" ROOF/FLOOR DEFLECTION. REFER TO DETAILS C6/G101 FOR HEAD OF WALL CONDITION.
3. REFER TO CODE COMPLIANCE PLAN FOR RATED WALL LOCATIONS. FIRE RATED AND SMOKE RESISTANT ASSEMBLIES SHALL BE CONTINUOUS, WITH OTHER PARTITIONS ABUTTING THEM.
4. PROVIDE FIRESTOPPING/ SMOKE SEALANT AT ALL PENETRATIONS THROUGH FIRE RATED AND SMOKE RESISTANT ASSEMBLIES, CORRIDORS, AND FLOORS WITH OCCUPIABLE SPACES ABOVE AND BELOW.
5. PROVIDE ACOUSTICAL SEALANT AT ALL WALLS WITH ACOUSTICAL INSULATION.
6. PROVIDE 5/8" WATER RESISTANT GYPSUM WALLBOARD AT ALL WALLS OF TOILET ROOMS, WALLS RECEIVING TILE, AND WALLS BEHIND AND ADJACENT TO SINKS.
7. PROVIDE 5/8 TILE BACKER AT ALL WALLS OF SHOWER ENCLOSURES.
8. REFER TO STRUCTURAL DRAWINGS FOR MASONRY REINFORCING AND GROUTING.
9. PROVIDE BULLNOSE CONCRETE MASONRY UNITS AT EXPOSED SILLS AND AT ALL INTERIOR EXPOSED VERTICAL CORNERS, INCLUDING WINDOW AND DOOR JAMBS.
10. ALL WALLS ARE TYPE S3A WITH ACOUSTICAL INSULATION UNLESS NOTED OTHERWISE.

INTERIOR PARTITION TAG LEGEND

CORE MATERIAL
S - STEEL STUDS
W - WOOD STUDS
C - CONCRETE
M - MASONRY
H - CH / SHAFTWALL

ACOUSTICAL INSULATION
PROVIDE ACOUSTICAL INSULATION AT TAGGED LOCATIONS

PARTITION TYPE SUFFIX
REFER TO SCHEDULE BELOW

M12A

CORE SIZE (NOMINAL)

	S	W	C	M	H
0	7/8"				
1	1 5/8"				
2	2 1/2"	2x (flat)			2 1/2"
3	3 5/8"				
4	4"	2x4		4"	4"
5					
6	6"	2x6	6"	6"	6"
7					
8	8" CFMF	2x8	8"	8"	
9					
10			10"	10"	
11					
12			12"	12"	

INTERIOR PARTITION TYPE SUFFIXES

A	5/8" GYPSUM BOARD ON BOTH SIDES; EXTEND TO DECK (OR HARD CEILING WHERE IT OCCURS)
B	5/8" GYPSUM BOARD ON BOTH SIDES; EXTEND TO 6" ABOVE CEILING (OR HARD CEILING WHERE IT OCCURS)
D	5/8" GYPSUM BOARD ON ROOM SIDE ONLY; EXTEND TO DECK
F1	(1) LAYER 5/8" GYPSUM BOARD ON BOTH SIDES; EXTEND TO DECK ABOVE; 1 HR RATED UL DESIGN #U419
H1	(1) LAYER 5/8" GYPSUM BOARD ON ROOM SIDE, 1" SHAFT LINER TO DECK ABOVE ON OTHER SIDE; 1 HR RATED UL DESIGN #U415-A
P	PARTIAL HEIGHT WALL SAME AS "A", REFER TO DETAIL ON A501
S1	ACOUSTICAL STUD ASSEMBLY WITH SOUND DEADENING GYPSUM BOARD OVER RESILIENT CHANNELS (ONE SIDE) AND ACOUSTICAL SEALANT, TOP AND BOTTOM

RESTROOM ACCESSORIES

MARK	MODEL	MANUFACTURER	DESCRIPTION
BC	KB200	Koala Care Products	BABY CHANGING STATION
G1	B-5806 24"	BOBRICK	36" GRAB BAR
G2	B-5806 24"	BOBRICK	42" GRAB BAR
G3	B-6806 18"	BOBRICK	18" GRAB BAR VERTICAL
H	B-6727	BOBRICK	COAT HOOK @ 5'
M1	B-290	BOBRICK	WELDED FRAME MIRROR 18" X 36"
M2	B-290	BOBRICK	WELDED FRAME MIRROR 24" X 72" MOUNT AT 6" AFF
MS	B-224	BOBRICK	SHELF WITH MOP AND BROOM HOLDERS AND RAG HOOKS
PT	B4262	BOBRICK	SURFACE MOUNTED PAPER TOWEL DISPENSER
PT1	B-3944	BOBRICK	RECESSED PAPER TOWEL DISPENSER
SC	B-221	BOBRICK	SURFACE MOUNT SEAT COVER DISPENSER
SD	B-4112	BOBRICK	SURFACE MOUNT SOAP DISPENSER
SN	B-270	BOBRICK	SANITARY NAPKIN DISPOSAL
TP	B-7686	BOBRICK	SURFACE MOUNT TOILET TISSUE DISPENSER

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ENLARGED DETAILS
A502

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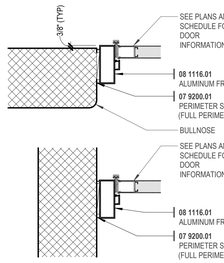
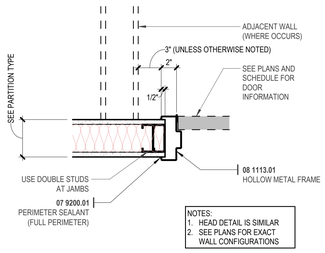
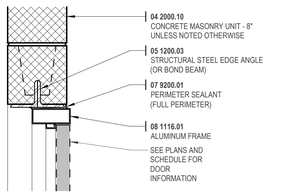


A7 INTERIOR ALUMINUM FRAME AT CMU
1 1/2" = 1'-0"



NOTES:
1. HEAD DETAIL IS SIMILAR
2. SEE PLANS FOR EXACT WALL CONFIGURATIONS

A6 INTERIOR HOLLOW METAL FRAME
1 1/2" = 1'-0"

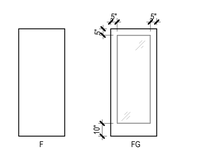


A5 INTERIOR ALUMINUM FRAME AT CMU
1 1/2" = 1'-0"

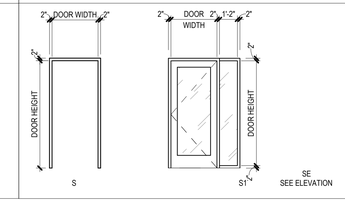
DOOR SCHEDULE

MARK	ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	RATING	HDW	DETAILS HEAD	DETAILS JAMB	NOTES
337	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
338	WELLNESS	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
339	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
340A	PA VESTIBULE	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
340B	PA VESTIBULE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
341	ROOF ACCESS	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
ROOF ACCESS												
TOP OF COPING												
401	ROOF ACCESS	3'-0"	5'-0"	F	HM	S	HM					

DOOR TYPES



FRAME TYPES

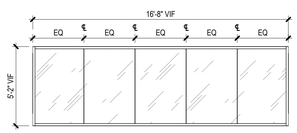


SE
SEE ELEVATION

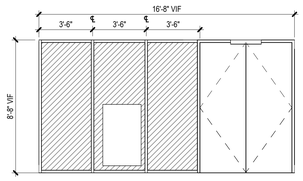
DOOR SCHEDULE

MARK	ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	RATING	HDW	DETAILS HEAD	DETAILS JAMB	NOTES
FIRST FLOOR												
100	VACANT	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
101	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
102	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
103	OPEN OFFICE	3'-0"	7'-0"	FG	WD	S	ALUM			C4/A601	C4/A601	
104	STORAGE	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
105	VAULT	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
106	OPEN OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
107	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
108	STORAGE	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
109	IT SERVER	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
110	OPEN OFFICE	3'-0"	7'-0"	FG	WD	S	ALUM			C4/A601	C4/A601	
111	STORAGE	5'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
112	STORAGE	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
113	WELLNESS ROOM	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
114	BEVERAGE STATION	3'-0"	7'-0"	FG	WD	S	ALUM			B4/A601	B4/A601	
115	STAFF RESTROOM	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
116	WOMENS	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
117	MENS	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
118	JC	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
119	BOILER ROOM	6'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
120A	ELEC.	6'-0"	8'-6"	F	HM	S	HM					
120B	ELEC.	6'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
121A	WORK ROOM	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
121B	WORK ROOM	6'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
122	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
123	OPEN OFFICE	3'-0"	7'-0"	FG	WD	S	ALUM			B4/A601	B4/A601	
124	OPEN OFFICE	3'-0"	7'-0"	FG	WD	S	ALUM			B4/A601	B4/A601	
125A	MEETING	3'-0"	7'-0"	FG	WD	S	ALUM			B4/A601	B4/A601	
125B	MEETING	3'-0"	7'-0"	FG	WD	S	ALUM			B4/A601	B4/A601	
126	WAITING	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
127	WAITING	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
129	WAITING	3'-0"	7'-0"	FG	WD	S	ALUM			B4/A601	B4/A601	
130	OPEN OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM					
131	VAULT	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
132	OPEN OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
133	OPEN OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
134	MEETING	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
135A	MEETING	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
135B	OPEN OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
136A	OPEN OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
136B	OPEN OFFICE	3'-0"	7'-0"	FG	WD	SL	ALUM			B4/A601	B4/A601	
137	DRAFTING & REVIEW	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
138	STORAGE	5'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
139	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
140	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
141	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
142A	DRAFTING & REVIEW	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
142B	OPEN OFFICE	3'-0"	7'-0"	FG	WD	SL	ALUM					
143	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
144	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
147	SUPPLIES	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
148	SUPPLIES	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
149	RISER	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
150	STORAGE	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
S2-1	NORTH STAIR	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
LOBBY												
200A	NORTH VESTIBULE	6'-0"	8'-11"	FG	ALUM	S	ALUM					
227A	VESTIBULE	6'-0"	8'-11"	FG	ALUM	S	ALUM					
227B	VESTIBULE	6'-0"	8'-11"	FG	ALUM	S	ALUM					
243		6'-0"	8'-11"	FG	ALUM	S	ALUM					
SECOND FLOOR												
200B	NORTH VESTIBULE	6'-0"	7'-0"	F	HM	S	HM					
201	OPEN OFFICE	3'-0"	7'-0"	FG	WD	SL	ALUM			B4/A601	B4/A601	
203	OPEN OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
204	OPEN OFFICE	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
205	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
206	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
207	MEETING	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
208A	CORRIDOR	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
208B	CORRIDOR	3'-0"	7'-0"	FG	WD	SL	ALUM					
208C	CORRIDOR	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
209	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
210	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
211	WELLNESS ROOM	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
213	ELEC	6'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
214	MAILROOM	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
215	STAFF RESTROOM	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
216	WOMEN	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
217	MEN	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
218	JC	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
219	IT	6'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
220	ELEC	6'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
221A	CORRIDOR	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
221B	CORRIDOR	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
222	MEETING	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
223	MEETING	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
224	AV	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
225	UNISEX RESTROOM	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
226A	COMMISSION CHAMBERS	6'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
226B	COMMISSION CHAMBERS	6'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
226C	COMMISSION CHAMBERS	6'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
226D	COMMISSION CHAMBERS	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
226E	COMMISSION CHAMBERS	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
228	OPEN OFFICE	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
229	APPLICANTS	3'-0"	7'-0"	FG	WD	S	ALUM			B4/A601	B4/A601	
230	OPEN OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
231	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
232	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
233	MEETING	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
234	VAULT	3'-0"	7'-0"	F	HM	S	HM	20 MIN		A6/A601	A6/A601	
235	STORAGE	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
236A	OPEN OFFICE	3'-0"	7'-0"	FG	WD	S	ALUM			B4/A601	B4/A601	
236B	OPEN OFFICE	3'-0"	7'-0"	FG	WD	SL	ALUM			B4/A601	B4/A601	
236C	OPEN OFFICE	3'-0"	7'-0"	FG	WD	SL	ALUM			B4/A601	B4/A601	
237	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
238	VAULT	3'-0"	7'-0"	F	HM	S	HM	20 MIN		A6/A601	A6/A601	
239	BREAK ROOM	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
247	STORAGE	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
248	STORAGE	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
THIRD FLOOR												
301A	VACANT	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
301B	VACANT	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
302A	CORRIDOR	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
302B	CORRIDOR	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
303	STAFF RESTROOM	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
304	JC	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
305	IT	6'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
306	WOMENS	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
307	MENS	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
308	ELEC	6'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
309A	CORRIDOR	3'-0"	7'-0"	FG	WD	SE	ALUM			A5/A601	A7/A601	
309B	CORRIDOR	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
311	CORRIDOR	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
312	STORAGE	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
313	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
314	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
315	WELLNESS	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
316	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
317	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
318	OPEN OFFICE	3'-0"	7'-0"	FG	ALUM	S	ALUM			B4/A601	B4/A601	
319	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
320	STORAGE	3'-0"	7'-0"	F	HM	S	HM			A6/A601	A6/A601	
321	CONFERENCE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
322	CONFERENCE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
323	CONFERENCE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
324	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
325	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
326	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
327	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
328	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
329	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
330	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
331	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
332	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
333	OFFICE	3'-0"	7'-0"	FG	WD	S	ALUM			B4/A601	B4/A601	
334	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	
335	OPEN OFFICE	3'-0"	7'-0"	F	WD	S	HM			A6/A601	A6/A601	
336	OFFICE	3'-0"	7'-0"	FG	WD	SE	ALUM			B4/A601	B4/A601	

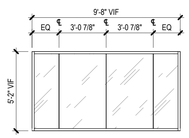
ALL EXTERIOR GLAZING UNITS TO BE REPLACED



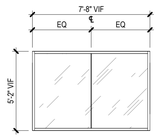
TYPICAL STOREFRONT ELEVATION
IG-1, SSG



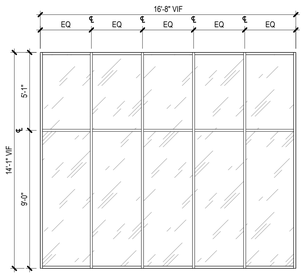
A
STOREFRONT ELEVATION A
1" GLAZED IN METAL PANEL (07 4213.19)



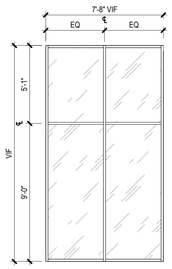
B
STOREFRONT ELEVATION B
IG-1, SSG



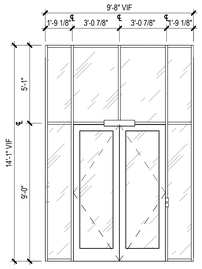
C
STOREFRONT ELEVATION C
IG-1, SSG



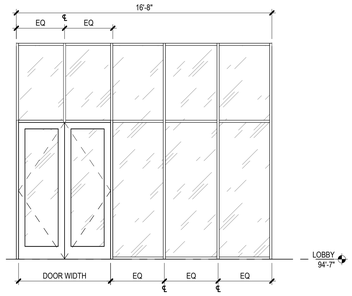
D
CURTAINWALL ELEVATION D
IG-1



E
CURTAINWALL ELEVATION E
IG-1

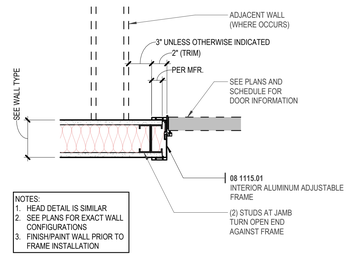


F
CURTAINWALL ELEVATION F
IG-1



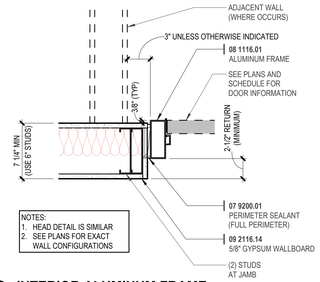
G
CURTAINWALL ELEVATION G
IG-1

BASIS OF DESIGN: KAWNEER INFRAME



NOTES:
1. HEAD DETAIL IS SIMILAR
2. SEE PLANS FOR EXACT WALL CONFIGURATIONS
3. FINISH/PAINT WALL PRIOR TO FRAME INSTALLATION

B4 ADJUSTABLE INTERIOR ALUMINUM FRAME
1 1/2" = 1'-0"



NOTES:
1. HEAD DETAIL IS SIMILAR
2. SEE PLANS FOR EXACT WALL CONFIGURATIONS

C4 INTERIOR ALUMINUM FRAME
1 1/2" = 1'-0"

PROGRESSIVE AE, INC.
PROGRESSIVE COMPANIES
Charlotte, NC | Detroit, MI | Grand Rapids, MI
weareprogressive.com

ISABELLA COUNTY
ADMINISTRATION BUILDING INTERIOR RENOVATION
200 N. MAIN STREET
MT. PLEASANT, MI 48858

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
DRAWN BY
N. BARROS
CHECKED BY
D. SNYDER

DOOR SCHEDULE, ELEVATIONS, AND DETAILS
A601

24.2.002
10/13/2026 3:15:48 PM Autodesk Docs://23000001 - Isabella County Admin Building/23000001_ICAB-ARCH.rvt
DS - A601
DOOR SCHEDULE, ELEVATIONS, AND DETAILS
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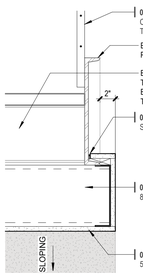
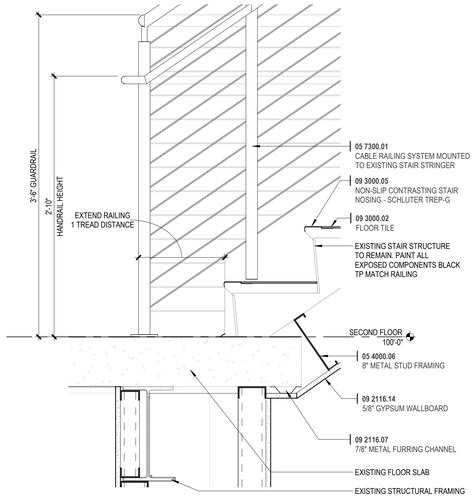
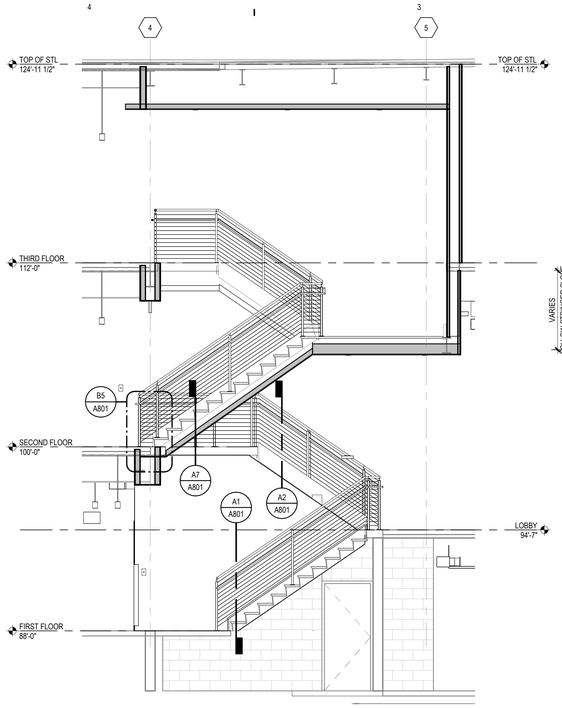


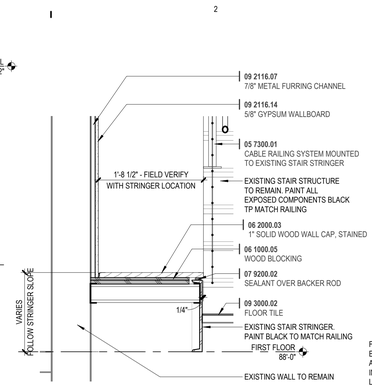
A7 CEILING CONDITION UNDER STAIR
1 1/2" = 1'-0"



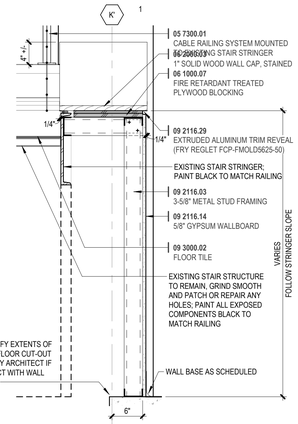
B5 STAIR LANDING CONDITION
1 1/2" = 1'-0"



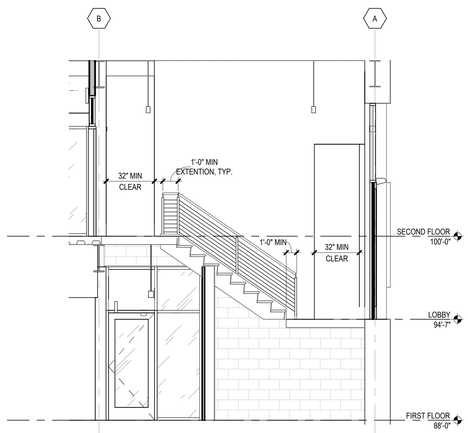
D3 SECTION THROUGH MAIN STAIR
1/4" = 1'-0"



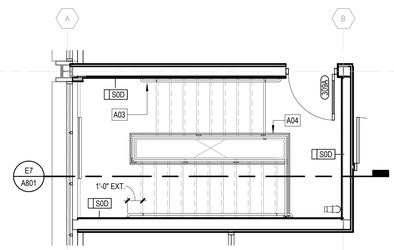
A1 MAIN STAIR DETAIL - FIRST FLOOR CENTER
1" = 1'-0"



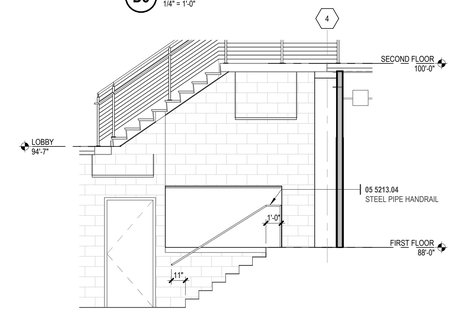
A2 MAIN STAIR DETAIL - SLOPED WALL
1" = 1'-0"



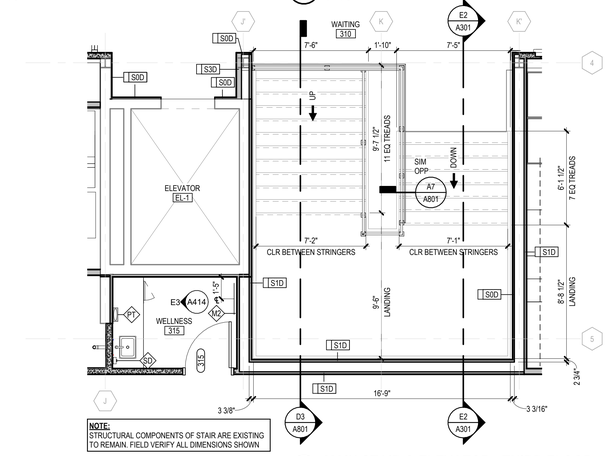
C7 SECTION THROUGH NORTH ENTRY
1/4" = 1'-0"



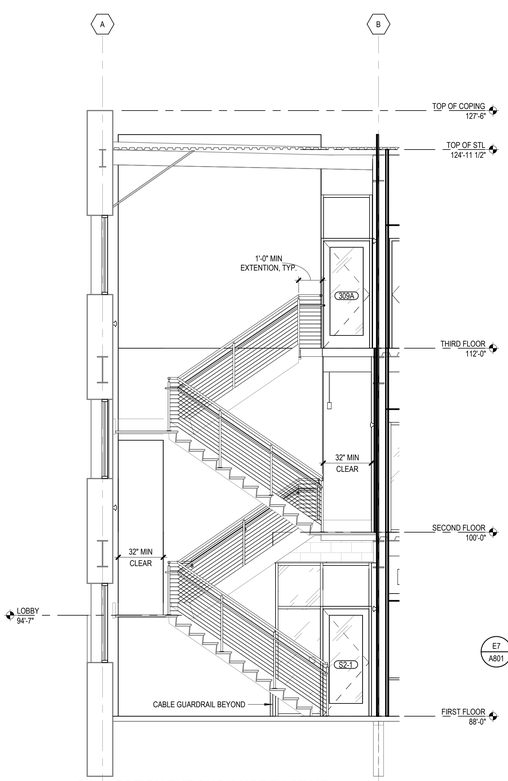
C5 NORTH STAIR - THIRD FLOOR
1/4" = 1'-0"



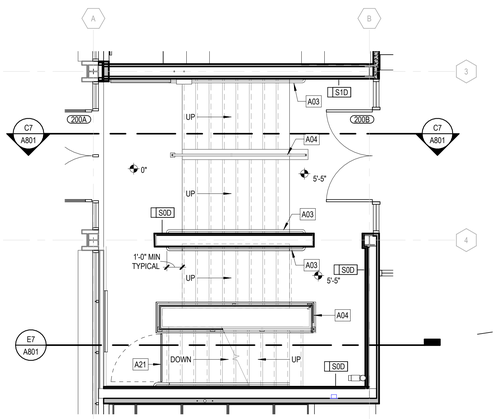
E3 SECTION THROUGH BASEMENT STAIR
1/4" = 1'-0"



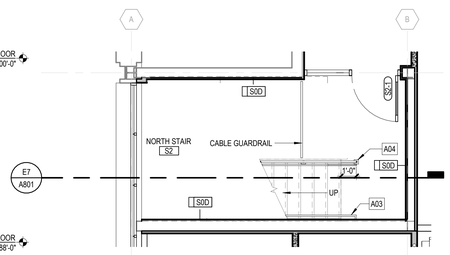
B1 MAIN STAIR & ELEVATOR - THIRD FLOOR
1/4" = 1'-0"



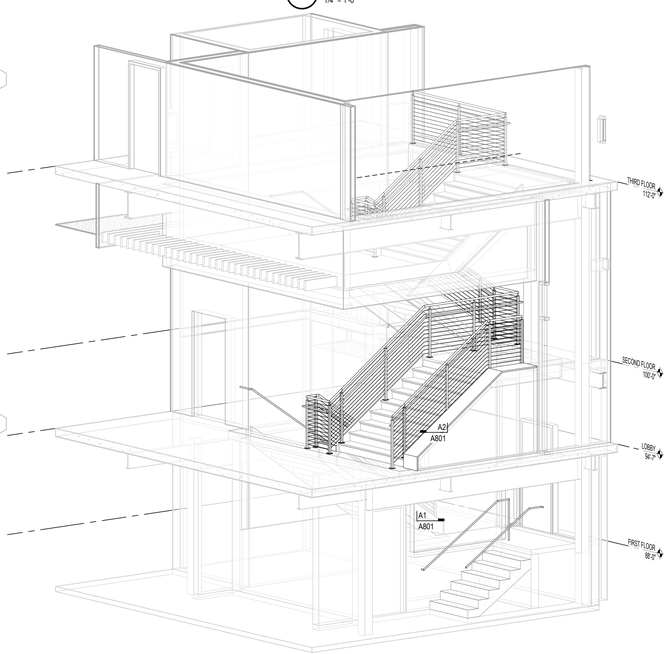
E7 SECTION THROUGH NORTH STAIR
1/4" = 1'-0"



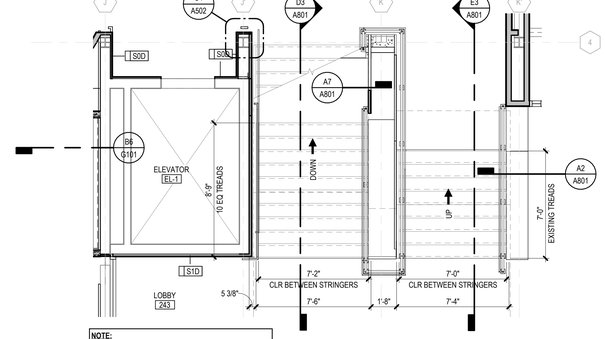
D5 NORTH STAIR - SECOND FLOOR
1/4" = 1'-0"



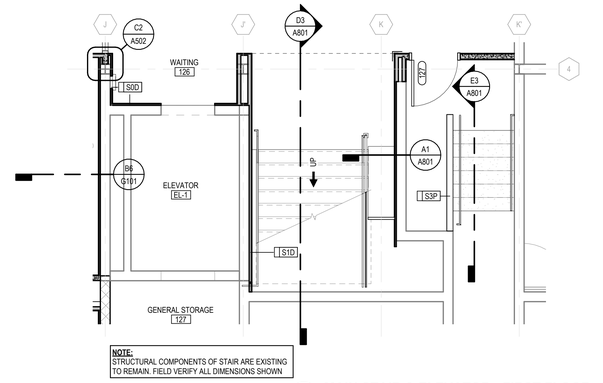
E5 NORTH STAIR - FIRST FLOOR
1/4" = 1'-0"



B3 MAIN STAIR AXONOMETRIC



C1 MAIN STAIR & ELEVATOR - LOBBY LEVEL
1/4" = 1'-0"



E1 MAIN STAIR & ELEVATOR - FIRST FLOOR
1/4" = 1'-0"

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ISSUANCE
10/13/2026 BIDS

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23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
R. RACLAWSKI
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CHECKED BY
D. SNYDER

VERTICAL CIRCULATION
A801

24.2.002
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FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
	SIDEWALL HEAD
	SIDEWALL HEAD - DRY
	PENDENT HEAD
	PENDENT HEAD WITH GUARD
	CONCEALED HEAD
	UPRIGHT HEAD
	UPRIGHT HEAD WITH GUARD
	WINDOW COVERAGE HEAD
N	NEW HEAD
E	EXISTING HEAD
D	DEMOLISHED HEAD
—FP—	FIRE PROTECTION PIPING
—FP-D—	FIRE PROTECTION PIPING - DRY
—FP-PA—	FIRE PROTECTION PIPING - PRE-ACTION
	FIRE DEPARTMENT CONNECTION
	DRY SPRINKLER COVERAGE REQUIRED

FIRE PROTECTION ABBREVIATIONS

BAS	BUILDING AUTOMATION SYSTEM
BV	BALL VALVE
CV	CHECK VALVE
DPR	DAMPER
EMCS	EMERGENCY MONITORING AND CONTROL SYSTEM
EX	EXISTING
FA	FIRE ALARM
FABP	FIRE ALARM BOOSTER SUPPLY PANEL
FACP	FIRE ALARM CONTROL PANEL
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHV	FIRE HOSE VALVE
FPM	FIRE PROTECTION MAIN
FVC	FIRE VALVE CABINET
GPDWF	GYPSUM DRYWALL, FIRE-RATED
PRV	PRESSURE REDUCING VALVE
SPKR	SPRINKLER
VB	VALVE BOX
ZVB	ZONE VALVE BOX

FIRE SPRINKLER GENERAL NOTES

1. PROVIDE A COMPLETE NEW AUTOMATIC FIRE SPRINKLER SYSTEM THROUGHOUT THE BUILDING. CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY THE EXISTING FIRE SPRINKLER SYSTEM AS REQUIRED DUE TO CHANGES IN WALLS, CEILINGS, LIGHTING AND HVAC. ALL ROOMS/AREAS WITHIN THE BOUNDARY OF THIS REMODEL SHALL BE SPRINKLED. ALL NEW WORK SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13, STATE CODES, LOCAL CODES AND LOCAL ORDINANCES. ALL COMPONENTS SHALL BE UL LISTED AND FM APPROVED.
2. AN AUTOMATIC WET SPRINKLER SYSTEM SHALL BE PROVIDED IN ALL CONDITIONED SPACES. A DRY SPRINKLER SYSTEM SHALL BE PROVIDED FOR UNCONDITIONED AREAS SUBJECT TO FREEZING.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING CURRENT HYDRANT TEST DATA (PERFORMED WITHIN LAST SIX MONTHS) AND PERFORMING HYDRAULIC CALCULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR SIZING THE FIRE SPRINKLER PIPING BASED ON THE HYDRAULIC CALCULATIONS. DESIGN CALCULATIONS FOR NEW SPRINKLERS SHALL ALLOW FOR 10 PERCENT SAFETY FACTOR.
4. ALL NEW SPRINKLERS SHALL BE QUICK RESPONSE TYPE.
5. REFER TO "G" DRAWINGS AND TITLE SHEET "T" FOR CODE COMPLIANCE AND ADDITIONAL INFORMATION.
6. PROVIDE ALL NECESSARY OFFSETS, RAISES OR DROPS IN PIPING AND AUXILIARY DRAINS REQUIRED BY BUILDING CONDITIONS.
7. EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES ETC.
8. ARCHITECTURAL, HVAC AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE PROPER DRAWINGS FOR EXACT LOCATIONS, SIZES AND QUANTITIES OF OTHER TRADES' WORK.
9. AUTOCAD (DWG) COMPATIBLE FILES WILL BE MADE AVAILABLE TO THE SUCCESSFUL FIRE SPRINKLER CONTRACTOR IN ELECTRONIC FORMAT UPON REQUEST.
10. SYSTEM MODIFICATIONS SHALL BE DESIGNED AND SIZED HYDRAULICALLY IN ACCORDANCE WITH NFPA 13, OWNER'S INSURER, AND ALL STATE AND LOCAL CODES AS INTERPRETED BY THE AUTHORITY HAVING JURISDICTION.
11. ALL NEW SYSTEM PIPING SHALL BE INSTALLED TO ALLOW DRAINAGE BACK TO THE SYSTEM RISERS WHEN POSSIBLE. WHERE IMPRACTICAL, AUXILIARY DRAINS SHALL BE INSTALLED AND DRAINED TO AN ACCEPTABLE LOCATION AS AGREED TO BY THE OWNER AND ENGINEER.
12. COORDINATE SPRINKLER HEAD LOCATIONS AND PIPE ROUTING WITH OTHER TRADES TO AVOID INTERFERENCE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND THE MECHANICAL AND ELECTRICAL PLANS FOR LOCATIONS OF CEILINGS, DIFFUSERS, LIGHTS AND OTHER CEILING ORNAMENTATION.
13. ALL MAINS RUNNING PARALLEL WITH BUILDING JOISTS/BEAMS SHALL BE HUNG USING HANGERS ATTACHED TO SUPPORTING STEEL SUPPORTED AT PANEL POINTS OF JOISTS AND IN ACCORDANCE WITH NFPA STANDARDS.
14. REFER TO GENERAL AND SUPPLEMENTAL CONDITIONS OF BID INSTRUCTIONS FOR CUTTING AND PATCHING OF WALLS AND ROOFS. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR ALL PENETRATIONS REQUIRED TO COMPLETE THE WORK. SEE SPECIFICATIONS FOR PIPE SEALS, WATERPROOFING, SLEEVES, AND ESCUTCHEON REQUIREMENTS.
15. WHERE CEILINGS ARE PRESENT, STANDARD SPRINKLER TO BE CONCEALED HEAD WITH WHITE ESCUTCHEON PLATE. CENTER HEAD IN LAY-IN CEILING TILE OR ALIGNED WITH ADJACENT LIGHTS OR DEVICES IN HARD LID CEILINGS, UNLESS OTHERWISE INDICATED.
16. ALL FIRE PROTECTION PIPING SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13, THREADING OF LIGHT WALL PIPING (LESS THAN SCHEDULE 40) SHALL BE PROHIBITED. OUTLETS AND TEES BEING APPLIED TO EXISTING PIPING MUST BE WELDED, THREADED OR GROOVED DESIGN. "TAP-ON" TYPE TEES THAT ARE NOT FULL CIRCUMFERENCE, BOLTED TYPE CONNECTIONS WILL NOT BE ALLOWED.
17. ALL SPRINKLERS SHALL BE UL LISTED AND FM APPROVED FOR THE INTENDED APPLICATION WHEN APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S LISTINGS. SPRINKLERS SHALL BE GLASS BULB TYPE AND SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 13.
18. REFER TO ARCHITECTURAL DRAWINGS, SPECIFICALLY WALL SECTIONS AND REFLECTED CEILING PLANS. THE CONTRACTOR SHALL ROUTE NEW FIRE SPRINKLER PIPING AT ELEVATION EQUAL TO EXISTING, COORDINATING WITH NEW AND EXISTING DUCTWORK, PLUMBING AND ELECTRICAL CONDUIT. DESIGN INTENT IS FOR FP PIPING TO ROUTE AROUND EXISTING MECHANICAL CONDITIONS.

FIRE SPRINKLER DESIGN CRITERIA

CLASSIFICATION:	**RESIDENTIAL**	**SYMBOL**
DENSITY CRITERIA	0.10 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	1,500 SQ.FT.	R
MAX PROTECTION AREA:	225 SQ.FT. PER HEAD	
MAX HEAD SPACING:	15 FT.	
CLASSIFICATION:	**LIGHT HAZARD**	
DENSITY CRITERIA:	0.10 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	1,500 SQ.FT.	
MAX PROTECTION AREA:	225 SQ.FT. PER HEAD	LT
MAX HEAD SPACING:	15 FT.	
SYSTEM AREA LIMIT:	52,000 SQ.FT.	
CLASSIFICATION:	**ORDINARY HAZARD (GROUP 1)**	
DENSITY CRITERIA:	0.15 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	1,500 SQ.FT.	
MAX PROTECTION AREA:	130 SQ.FT. PER HEAD	OH1
MAX HEAD SPACING:	12 FT.	
SYSTEM AREA LIMIT:	52,000 SQ.FT.	
CLASSIFICATION:	**ORDINARY HAZARD (GROUP 2)**	
DENSITY CRITERIA:	0.20 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	1,500 SQ.FT.	
MAX PROTECTION AREA:	130 SQ.FT. PER HEAD	OH2
MAX HEAD SPACING:	12 FT.	
SYSTEM AREA LIMIT:	52,000 SQ.FT.	
CLASSIFICATION:	**EXTRA HAZARD (GROUP 1)**	
DENSITY CRITERIA:	0.30 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	2,500 SQ.FT.	EH1
SYSTEM AREA LIMIT:	40,000 SQ.FT.	
CLASSIFICATION:	**EXTRA HAZARD (GROUP 2)**	
DENSITY CRITERIA:	0.40 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	2,500 SQ.FT.	EH2
SYSTEM AREA LIMIT:	40,000 SQ.FT.	

NOTE:
SPRINKLER HEAD TEMPERATURE RATING TO BE BASED ON MAXIMUM CEILING TEMPERATURE PER NFPA 13 TABLE 7.2.4.1

SPRINKLER HEAD SCHEDULE

CEILING / ROOM CONDITION	SPRINKLER TYPE
SUSPENDED CEILINGS	CONCEALED PENDENT QUICK RESPONSE, STANDARD COVERAGE
EXPOSED AREAS	UPRIGHT HEAD QUICK RESPONSE, STANDARD COVERAGE
AREAS W/O CEILINGS	SIDEWALL HEAD QUICK RESPONSE, STANDARD COVERAGE
STORAGE AREAS	UPRIGHT HEAD WITH GUARD STANDARD RESPONSE AND COVERAGE
AREAS SUBJECT TO FREEZING	DRY PENDENT QUICK RESPONSE, STANDARD COVERAGE

NOTES:
- ACCEPTABLE MANUFACTURER'S
  1. VIKING
  2. TYCO
  3. VICTAULIC
- K-VALUES TO BE SELECTED BY FIRE PROTECTION ENGINEER OF RECORD THAT IS RESPONSIBLE FOR PREPARING HYDRAULIC CALCULATIONS AND SHOP DRAWINGS.

WATER FLOW TEST DATA

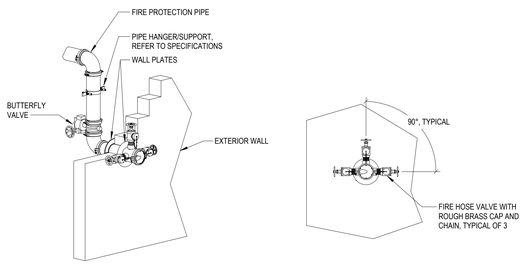
DATE OF TEST:	06/22/2026
HYDRANT LOCATION:	200 N MAIN ST – FLOW HYDRANT 15C2-H004
HYDRANT ELEVATION:	773.94 FT
NAME OF TESTER:	NOT PROVIDED
STATIC PRESSURE:	36 PSI
RESIDUAL PRESSURE:	35 PSI
FLOW:	1,132 GPM

DEFERRED SUBMISSION

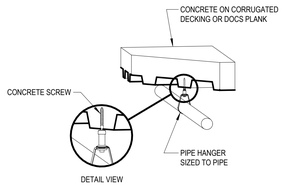
THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS WITHIN THE PROGRESSIVE COMPANIES DOCUMENT SET ARE PERFORMANCE BASED AND INTENDED TO CONVEY SCOPE OF THE WORK. THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL TO THE LOCAL AHJ SHOP DRAWINGS AND HYDRAULIC CALCULATIONS INDICATING THE SPRINKLER SYSTEM LAYOUT, INCLUDING FINAL HEAD LOCATIONS AND MAIN/LEADER PIPING SIZING. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE THESE DOCUMENTS SEALED BY A LICENSED FIRE PROTECTION ENGINEER.

FIRE PROTECTION SHEET INDEX

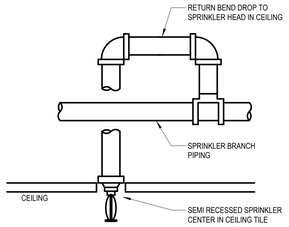
NUMBER	DESCRIPTION
FP001	GENERAL FIRE PROTECTION INFORMATION
FP101	FIRST AND SECOND FLOOR FIRE PROTECTION PLAN
FP102	THIRD FLOOR FIRE PROTECTION PLAN



D6 PUMP ROOM TEST HEADER DETAIL
NOT TO SCALE



D5 CLEVIS PIPE HANGER DETAIL
NOT TO SCALE



D4 PENDANT SPRINKLER HEAD PIPING DETAIL
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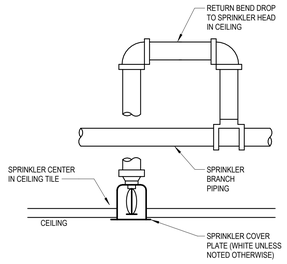

D3 CONCEALED SPRINKLER HEAD DETAIL
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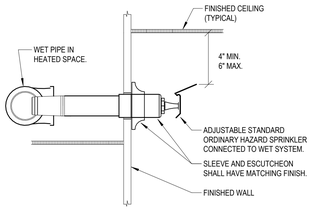

D2 SIDEWALL SPRINKLER HEAD DETAIL
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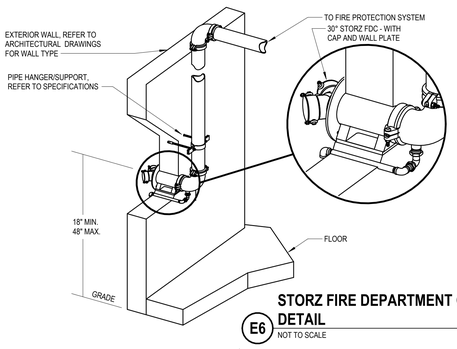

E6 STORZ FIRE DEPARTMENT CONNECTION DETAIL
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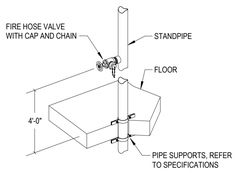
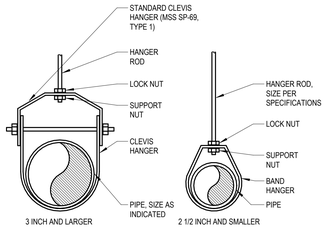
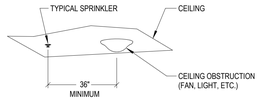


E5 STANDPIPE FIRE HOSE DETAIL
NOT TO SCALE

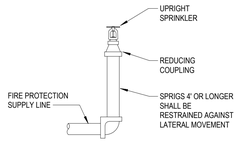


NOTES:
- HANGER ROD DIAMETER AND HANGER SPACING TO COMPLY WITH NFPA 13 REQUIREMENTS.
- ALL DRY SYSTEM MATERIALS AND HARDWARE TO BE HOT DIPPED GALVANIZED.

E4 PIPE HANGER DETAIL
NOT TO SCALE



E3 SPRINKLER CLEARANCE DETAIL
NOT TO SCALE



E2 TYPICAL SPRIG PIPING DETAIL
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ISSUANCE
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PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
T. FREY
DRAWN BY
B. GARCIA
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GENERAL FIRE PROTECTION INFORMATION
FP001

24.2.002
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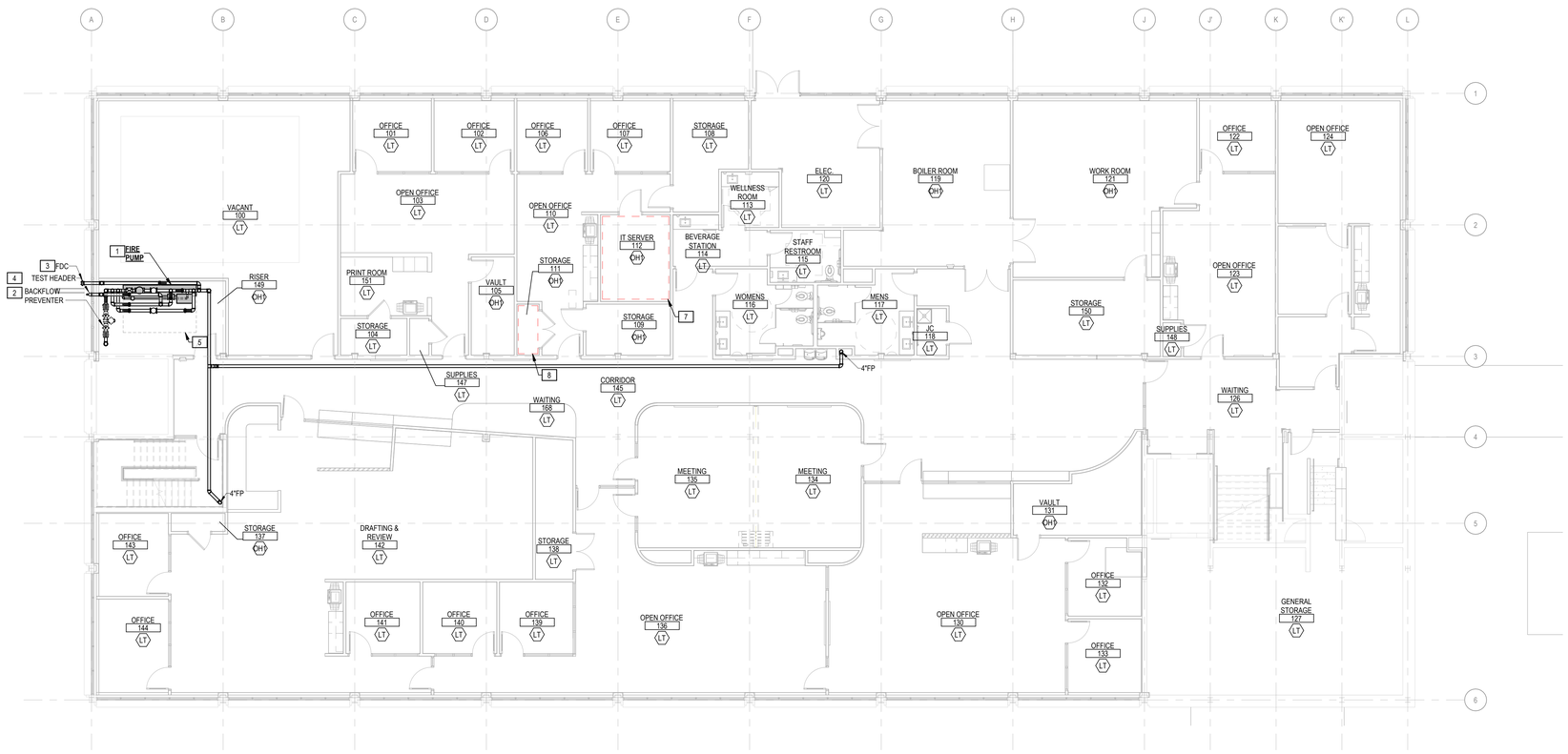
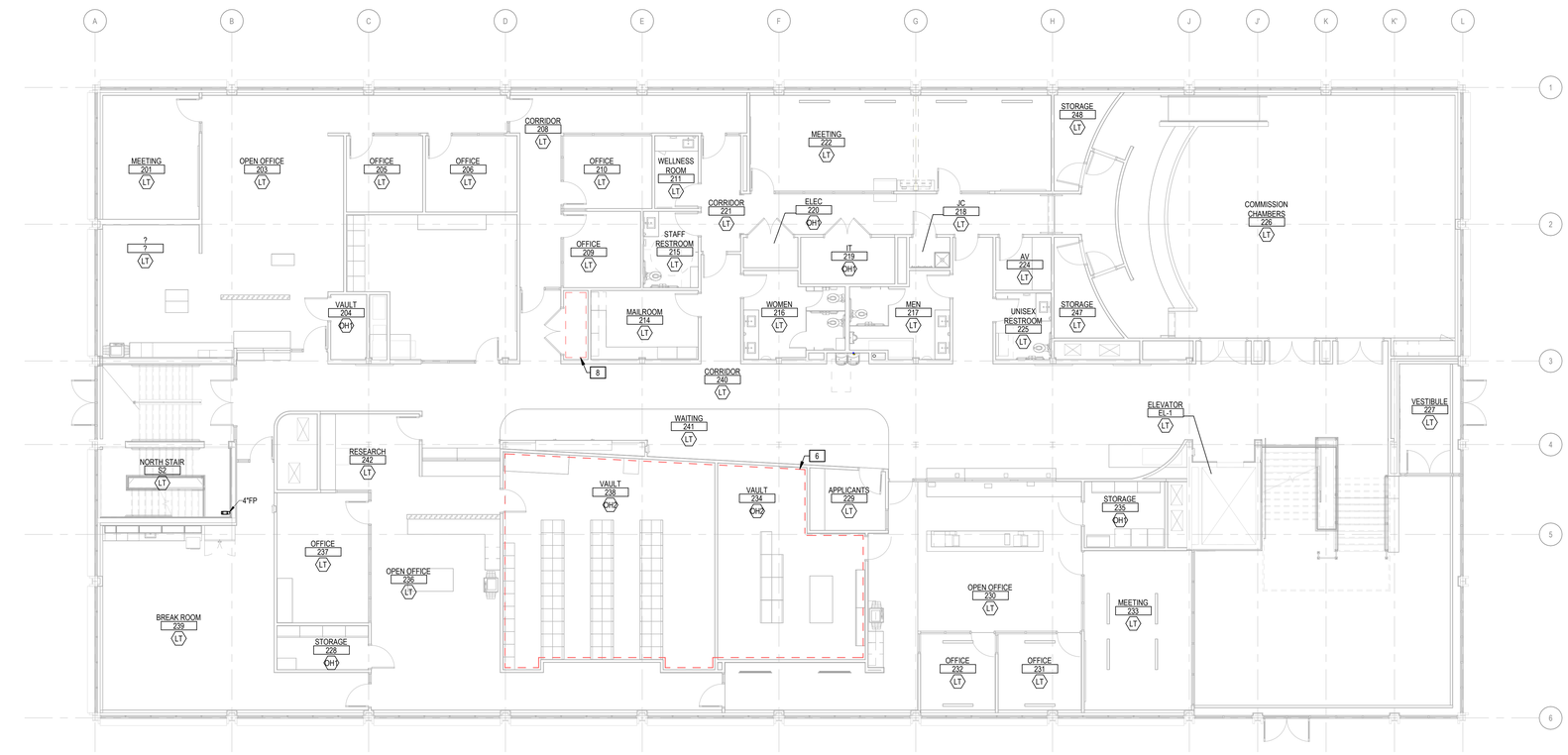


FIRST FLOOR FIRE PROTECTION PLAN

1/8" = 1'-0"



SECOND FLOOR FIRE PROTECTION PLAN

1/8" = 1'-0"

FIRE SPRINKLER DESIGN CRITERIA

CLASSIFICATION:	**RESIDENTIAL**	**SYMBOL**
DENSITY CRITERIA	0.10 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	1,500 SQ.FT.	
MAX PROTECTION AREA:	225 SQ.FT. PER HEAD	R
MAX HEAD SPACING:	15 FT.	
CLASSIFICATION:	**LIGHT HAZARD**	
DENSITY CRITERIA:	0.10 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	1,500 SQ.FT.	
MAX PROTECTION AREA:	225 SQ.FT. PER HEAD	LT
MAX HEAD SPACING:	15 FT.	
SYSTEM AREA LIMIT:	52,000 SQ.FT.	
CLASSIFICATION:	**ORDINARY HAZARD (GROUP 1)**	
DENSITY CRITERIA:	0.15 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	1,500 SQ.FT.	
MAX PROTECTION AREA:	130 SQ.FT. PER HEAD	OH1
MAX HEAD SPACING:	12 FT.	
SYSTEM AREA LIMIT:	52,000 SQ.FT.	
CLASSIFICATION:	**ORDINARY HAZARD (GROUP 2)**	
DENSITY CRITERIA:	0.20 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	1,500 SQ.FT.	
MAX PROTECTION AREA:	130 SQ.FT. PER HEAD	OH2
MAX HEAD SPACING:	12 FT.	
SYSTEM AREA LIMIT:	52,000 SQ.FT.	
CLASSIFICATION:	**EXTRA HAZARD (GROUP 1)**	
DENSITY CRITERIA:	0.30 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	2,500 SQ.FT.	EH1
SYSTEM AREA LIMIT:	40,000 SQ.FT.	
CLASSIFICATION:	**EXTRA HAZARD (GROUP 2)**	
DENSITY CRITERIA:	0.40 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	2,500 SQ.FT.	EH2
SYSTEM AREA LIMIT:	40,000 SQ.FT.	

NOTE:
SPRINKLER HEAD TEMPERATURE RATING TO BE BASED ON MAXIMUM CEILING TEMPERATURE PER NFPA 13 TABLE 7.2.4.1

7 FIRE PROTECTION KEYNOTES

1. PROVIDE COMPLETE FIRE PUMP PACKAGE INCLUDING FIRE PUMP, JOCKEY PUMP, CONTROLLERS, FLOW METER, BYPASS PIPING, VALVES, GAUGES, AND ACCESSORIES. BASIS OF DESIGN: ARMSTRONG VERTICAL INLINE FIREPAK.
2. PROVIDE BACKFLOW PREVENTER ASSEMBLY WITH REQUIRED ISOLATION VALVES, TEST CONNECTIONS, AND ACCESSORIES.
3. PROVIDE FIRE DEPARTMENT CONNECTION COMPLETE WITH CHECK VALVE, DRAINAGE PROVISIONS, SIGNAGE, AND ACCESSORIES.
4. PROVIDE FIRE PUMP TEST HEADER COMPLETE WITH CONTROL VALVE, HOSE VALVES, CAPS, CHAINS, AND ASSOCIATED PIPING.
5. MAINTAIN REQUIRED ACCESS AND SERVICE CLEARANCES AROUND FIRE PUMP EQUIPMENT, CONTROLLERS, AND VALVES.
6. PROVIDE A COMPLETE TOTAL-FLOODING CLEAN-AGENT FIRE SUPPRESSION SYSTEM FOR VAULTS 234 AND 238, INCLUDING DETECTION, RELEASING CONTROLS, ALARMS, AND REQUIRED INTERLOCKS. DESIGN FOR EACH PROTECTED ENCLOSURE IN ACCORDANCE WITH NFPA 2001, NFPA 72, AND MANUFACTURER'S REQUIREMENTS. PROVIDE INDEPENDENT WET-PIPE SPRINKLER PROTECTION PER NFPA 13.
7. PROVIDE A COMPLETE TOTAL-FLOODING CLEAN-AGENT FIRE SUPPRESSION SYSTEM FOR THE IT/SERVER ROOM INDICATED, INCLUDING DETECTION, RELEASING CONTROLS, ALARMS, AND REQUIRED INTERLOCKS. DESIGN FOR THE PROTECTED ENCLOSURE AND EQUIPMENT HAZARD IN ACCORDANCE WITH NFPA 2001, NFPA 72, AND MANUFACTURER'S REQUIREMENTS. PROVIDE INDEPENDENT WET-PIPE SPRINKLER PROTECTION PER NFPA 13.
8. PROPOSED CLEAN AGENT SYSTEM EQUIPMENT LOCATION.

DEFERRED SUBMISSION

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
T. FREY
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M. GROSE

FIRST AND SECOND FLOOR FIRE PROTECTION PLAN

FP101

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FIRST AND SECOND FLOOR FIRE PROTECTION PLAN
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FIRE SPRINKLER DESIGN CRITERIA

CLASSIFICATION:	RESIDENTIAL	SYMBOL
DENSITY CRITERIA	0.10 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	1,500 SQ.FT.	R
MAX PROTECTION AREA:	225 SQ.FT. PER HEAD	
MAX HEAD SPACING:	15 FT.	

CLASSIFICATION:	LIGHT HAZARD	
DENSITY CRITERIA:	0.10 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	1,500 SQ.FT.	
MAX PROTECTION AREA:	225 SQ.FT. PER HEAD	LT
MAX HEAD SPACING:	15 FT.	
SYSTEM AREA LIMIT:	52,000 SQ.FT.	

CLASSIFICATION:	ORDINARY HAZARD (GROUP 1)	
DENSITY CRITERIA:	0.15 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	1,500 SQ.FT.	
MAX PROTECTION AREA:	130 SQ.FT. PER HEAD	OH1
MAX HEAD SPACING:	12 FT.	
SYSTEM AREA LIMIT:	52,000 SQ.FT.	

CLASSIFICATION:	ORDINARY HAZARD (GROUP 2)	
DENSITY CRITERIA:	0.20 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	1,500 SQ.FT.	
MAX PROTECTION AREA:	130 SQ.FT. PER HEAD	OH2
MAX HEAD SPACING:	12 FT.	
SYSTEM AREA LIMIT:	52,000 SQ.FT.	

CLASSIFICATION:	EXTRA HAZARD (GROUP 1)	
DENSITY CRITERIA:	0.30 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	2,500 SQ.FT.	EH1
SYSTEM AREA LIMIT:	40,000 SQ.FT.	

CLASSIFICATION:	EXTRA HAZARD (GROUP 2)	
DENSITY CRITERIA:	0.40 GPM/SQ.FT.	
TYPICAL OPERATING AREA:	2,500 SQ.FT.	EH2
SYSTEM AREA LIMIT:	40,000 SQ.FT.	

NOTE:
SPRINKLER HEAD TEMPERATURE RATING TO BE BASED ON MAXIMUM CEILING TEMPERATURE PER NFPA 13 TABLE 7.2.4.1

FIRE PROTECTION KEYNOTES

1. PROVIDE COMPLETE FIRE PUMP PACKAGE INCLUDING FIRE PUMP, JOCKEY PUMP, CONTROLLERS, FLOW METER, BYPASS PIPING, VALVES, GAUGES, AND ACCESSORIES. BASIS OF DESIGN: ARMSTRONG VERTICAL INLINE FIREPAK.
2. PROVIDE BACKFLOW PREVENTER ASSEMBLY WITH REQUIRED ISOLATION VALVES, TEST CONNECTIONS, AND ACCESSORIES.
3. PROVIDE FIRE DEPARTMENT CONNECTION COMPLETE WITH CHECK VALVE, DRAINAGE PROVISIONS, SIGNAGE, AND ACCESSORIES.
4. PROVIDE FIRE PUMP TEST HEADER COMPLETE WITH CONTROL VALVE, HOSE VALVES, CAPS, CHAINS, AND ASSOCIATED PIPING.
5. MAINTAIN REQUIRED ACCESS AND SERVICE CLEARANCES AROUND FIRE PUMP EQUIPMENT, CONTROLLERS, AND VALVES.
6. PROVIDE A COMPLETE TOTAL-FLOODING CLEAN-AGENT FIRE SUPPRESSION SYSTEM FOR VAULTS 234 AND 238, INCLUDING DETECTION, RELEASING CONTROLS, ALARMS, AND REQUIRED INTERLOCKS. DESIGN FOR EACH PROTECTED ENCLOSURE IN ACCORDANCE WITH NFPA 2001, NFPA 72, AND MANUFACTURER'S REQUIREMENTS. PROVIDE INDEPENDENT WET-PIPE SPRINKLER PROTECTION PER NFPA 13.
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8. PROPOSED CLEAN AGENT SYSTEM EQUIPMENT LOCATION.

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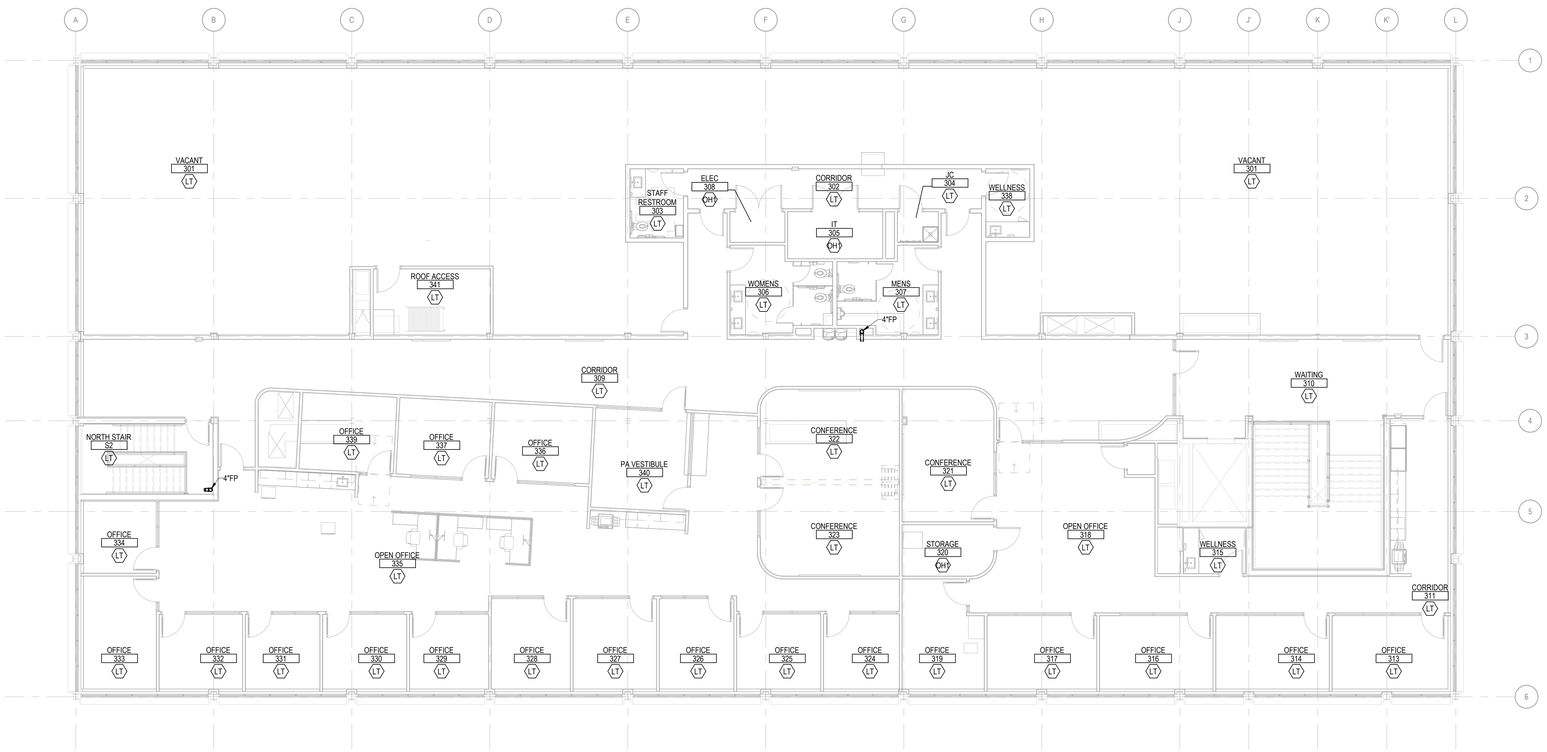

THIRD FLOOR FIRE PROTECTION PLAN

1/8" = 1'-0"

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PROJECT MANAGER
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PROFESSIONAL
T. FREY
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B. GARCIA
CHECKED BY
M. GROSE

THIRD FLOOR FIRE PROTECTION PLAN
FP102

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THIRD FLOOR FIRE PROTECTION PLAN
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ABBREVIATIONS - PLUMBING

AC	AIR COMPRESSER
AC	ARCHITECTURAL CONTRACTOR
ADA	AMERICANS WITH DISABILITIES ACT
AVS	ACID VENT STACK
AW	ACID WASTE
B	BOILER
BV	BALL VALVE
CB	CATCH BASIN
CBS	COMBINATION BALANCE & SHUTOFF VALVE
CIP	CAST IRON PIPE
CO	CLEANOUT
COMP	COMPARTMENT
CS	CLINICAL SINK
CV	CHECK VALVE
CW	COLD WATER
D&T	DRIP AND TRAP
DB	DIALYSIS WASTE & SUPPLY BOX
DCP	DOMESTIC WATER CIRCULATING PUMP
DCR	DOMESTIC COLD WATER RETURN
DN	DISCHARGE NOZZLE
DSN	DOWNSPOUT NOZZLE
DW	DISHWASHER
DWH	DOMESTIC WATER HEATER
EWT	ENTER WATER TEMPERATURE
EX	EXISTING
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
G	GAS
GLR	GROUND LOOP RETURN
GLS	GROUND LOOP SUPPLY
HB	HOSE BIBB
HO	HUB OUTLET
HTP	HEAT PUMP
HW	HOT WATER
HWR	HOT WATER RETURN (DOMESTIC)
HYD	HYDRANT
IE	INVERT ELEVATION
IW	INDIRECT WASTE
KVAR	KILOVOLT-AMPERES REACTIVE
L	LAVATORY
LAV	LAVATORY
LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
LWT	LEAVING WATER TEMPERATURE
MB	MOP BASIN
MCA	MINIMUM CIRCUIT AMPS
MH	MANHOLE
MOP	MAXIMUM OVERCURRENT PROTECTION
NG	NATURAL GAS
OHD	OVERHEAD DOOR
ORD	OVERFLOW ROOF DRAIN
PF	PUMP - FIRE PROTECTION
PP	PUMP - PLUMBING
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RD	ROOF DRAIN, ROAD
RIO	ROUGH-IN ONLY
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RR	REST ROOM
RV	RELIEF VENT
S	SINK
SAN	SANITARY
SCW	SOFT COLD WATER
SD	STORM DRAIN
SG	SPECIFIC GRAVITY
SH	SHOWER
SK	SINK
SNS	SANITARY SEWER
SPHD	SPRINKLER HEAD
SPKR	SPRINKLER
SS	SERVICE SINK
SSK	SERVICE SINK
ST	STORM
TD	TRENCH DRAIN
THERM	100 CUBIC FEET OF NATURAL GAS
TOW	TOP OF WALL
UR	URINAL
V	VENT
VS	VENT STACK
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WHTR	WATER HEATER
WS	WASTE STACK
ZVB	ZONE VALVE BOX

PLUMBING SYMBOLS

- ANGLE RELIEF VALVE
- ANGLED STOP CHECK VALVE
- BALANCING VALVE
- BUTTERFLY VALVE
- BALL VALVE
- CHECK VALVE W/ARROW INDICATING FLOW
- GATE VALVE
- GLOBE VALVE
- LINEAR STOP CHECK VALVE
- GAS VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- SOLENOID VALVE
- PRESSURE REGULATING VALVE - TWO WAY
- PRESSURE REGULATING VALVE - THREE WAY
- MOTORIZED CONTROL VALVE - 2-WAY
- MOTORIZED CONTROL VALVE - 3-WAY
- F — FLOW MEASURING DEVICE
- HOSE BIBB
- MANUAL AIR VENT
- PRESSURE INDICATOR
- TEMPERATURE INDICATOR
- THERMOMETER
- ANCHOR
- CAP
- CB — CATCH BASIN
- CO — END OF LINE, CLEANOUT
- CO — FLOOR, CLEANOUT
- WCO — WALL, CLEANOUT
- EXPANSION COMPENSATOR OR EXPANSION JOINT
- FLEXIBLE PIPE CONNECTOR
- FD — FLOOR DRAINS
- PIPE GUIDE
- MH — MANHOLE
- MGS — MASTER GAS SHUT OFF
- PRS — PRESSURE REDUCING STATION
- RPBP — REDUCED PRESSURE BACKFLOW PREVENTER
- STRAINER
- UNION

PLUMBING GENERAL NOTES

1. COORDINATE ROUTING OF PIPING WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS.
2. VERIFY ALL CONDITIONS IN FIELD BEFORE START OF CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS.
3. COMPLY WITH ALL APPLICABLE LOCAL AND STATE CODES.
4. PROVIDE ROUGH-INS AND FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT FURNISHED BY LAB EQUIPMENT CONTRACTOR . USE ONLY APPROVED EQUIPMENT AND FIXTURE SHOP DRAWINGS, FROM FSEC, FOR ROUGH-IN SIZES AND LOCATIONS.
5. COORDINATE ANY REQUIRED SHUTDOWN OF SERVICES OR EQUIPMENT WITH OWNER'S REPRESENTATIVE. MINIMIZE INTERRUPTION OF EXISTING SERVICES. VERIFY ALL SYSTEMS BEFORE STARTING DEMOLITION TO ASSURE OTHER AREAS WILL NOT LOSE SERVICE.
6. PROVIDE TRAP SEAL PROTECTION ON ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS SUBJECT TO EVAPORATION. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
7. PROVIDE ASSE 1070 MIXING VALVE AT ALL BARRIER FREE SINKS AND ALL HAND WASHING SINKS TO PROVIDE TEMPERED WATER TO HOT WATER SIDE OF FAUCET.
8. PIPING INSTALLED IN THE WAY OF ACCESS OR MAINTENANCE TO EQUIPMENT SHALL BE RELOCATED AT THE EXPENSE OF THE INSTALLING CONTRACTOR.
9. PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT.
10. COORDINATE ALL FLOOR CUTTING WITH STRUCTURAL TRADES BEFORE CUTTING.
11. COORDINATE LOCATIONS OF FLOOR DRAINS AND FLOOR SINKS WITH LOCATIONS OF EQUIPMENT AND EQUIPMENT HOUSEKEEPING PADS. COORDINATE WITH SLOPING OF FLOOR SO THAT RIM OF DRAIN IS FLUSH WITH FINISH FLOOR.
12. COORDINATE HANGING AND SUPPORT OF PIPING WITH STRUCTURAL.
13. COORDINATE FLOOR, WALL, AND ROOF PENETRATIONS ETC. WITH ARCHITECTURAL TRADES. PROVIDE TEMPORARY WATER TIGHT SEAL FOR ALL EXTERIOR WALL AND ROOF PENETRATION AS NECESSARY.
14. PROVIDE PIPE SLEEVES WHERE PIPES PENETRATE WALLS.
15. HOLES AND PENETRATIONS IN RATED WALLS SHALL BE PATCHED WITH APPROPRIATE FIRESTOP MATERIALS FOR RATING REQUIRED.
16. PROVIDE PIPE SLEEVES WHERE PIPES RUN BELOW FOOTING.
17. INSTALL EXTERIOR CLEAN OUTS FLUSH WITH SURFACE.
18. INSTALL PIPING IN AN ORGANIZED MANNER. DO NOT ROUTE IN FRONT OF WINDOWS.
19. THE INSTALLATION OF ALL PIPING SHALL BE CLOSELY COORDINATED WITH NEW SHEET METAL, HVAC PIPING, ELECTRICAL, AND STRUCTURAL CONDITIONS. NOT ALL REQUIRED OFFSETS AND FITTINGS ARE INDICATED, BUT SHALL BE PROVIDED. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR CLEARANCES. THE LOCATION OF SANITARY, STORM AND VENT LINES SHALL TAKE PRECEDENCE OVER HVAC AND FIRE PROTECTION PIPING AND ELECTRICAL CONDUIT AND CABLE TRAY.
20. PROVIDE WATER HAMMER ARRESTORS PER PDI WH-201 AND UP STREAM OF ALL AUTOMATIC AND FAST CLOSING VALVES INCLUDING BUT NOT LIMITED TO SOLENOID VALVES.
21. ALL EMERGENCY EYEWASH UNITS AND EMERGENCY SHOWERS SHALL BE PROVIDED WITH TEMPERED WATER AND SHALL BE IN COMPLIANCE WITH ANSI Z358.1.

PHASING

- EXISTING - TO REMAIN
- EXISTING - FOR DEMOLITION
- POINT OF DISCONNECTION BETWEEN EXISTING AND DEMOLITION
- POINT OF CONNECTION BETWEEN PROPOSED AND EXISTING

PLUMBING SYMBOLOGY

CW	COLD WATER
HW	HOT WATER
HR	HOT WATER RETURN
SAN	SANITARY WASTE
AW	ACID WASTE
ST	STORM
OD	STORM (OVERFLOW DRAINAGE)
AV	ACID WASTE VENT
V	VENT
CD	CONDENSATE DRAIN
CA	COMPRESSED AIR
G	NATURAL GAS
G(EPS)	NATURAL GAS, EMERGENCY POWER

PLUMBING DEMOLITION NOTES

1. NO ITEMS TO BE ABANDONED IN PLACE.
2. ALL ITEMS TO BE DEMOLISHED TO BE REMOVED AND REMAINING OPEN SYSTEMS TO BE PATCHED, CAPPED AND SEALED TO PROVIDE A FINISHED SYSTEM.
3. DEMOLISHED PLUMBING LINE SHALL NOT BE ALLOWED TO REMAIN OPEN. CAP AND PROTECT TO AVOID CONTAMINATION TO AND FROM THE SURROUNDING AREAS.
4. ALL SYSTEMS OPENED DURING DEMOLITION SHALL BE CLOSED AND RETURNED TO OPERATION BY END OF SHIFT, NO SYSTEMS ALLOWED TO BE LEFT OPEN WHEN NOT BEING SUPERVISED BY CONTRACTOR RESPONSIBLE FOR THAT WORK TRADE.

PLUMBING SHEET INDEX

NUMBER	DESCRIPTION
P001	GENERAL PLUMBING INFORMATION
PD100	UNDERGROUND & FIRST FLOOR PLUMBING DEMOLITION PLAN
PD101	SECOND FLOOR & THIRD FLOOR PLUMBING DEMOLITION PLAN
P101	UNDERGROUND & FIRST FLOOR PLUMBING PLAN
P102	SECOND FLOOR & AND THIRD FLOOR PLUMBING PLAN
P103	ROOF PLUMBING PLAN
P401	ENLARGED PLUMBING PLANS
P501	PLUMBING DETAILS

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GENERAL PLUMBING INFORMATION
P001

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P001 GENERAL PLUMBING INFORMATION

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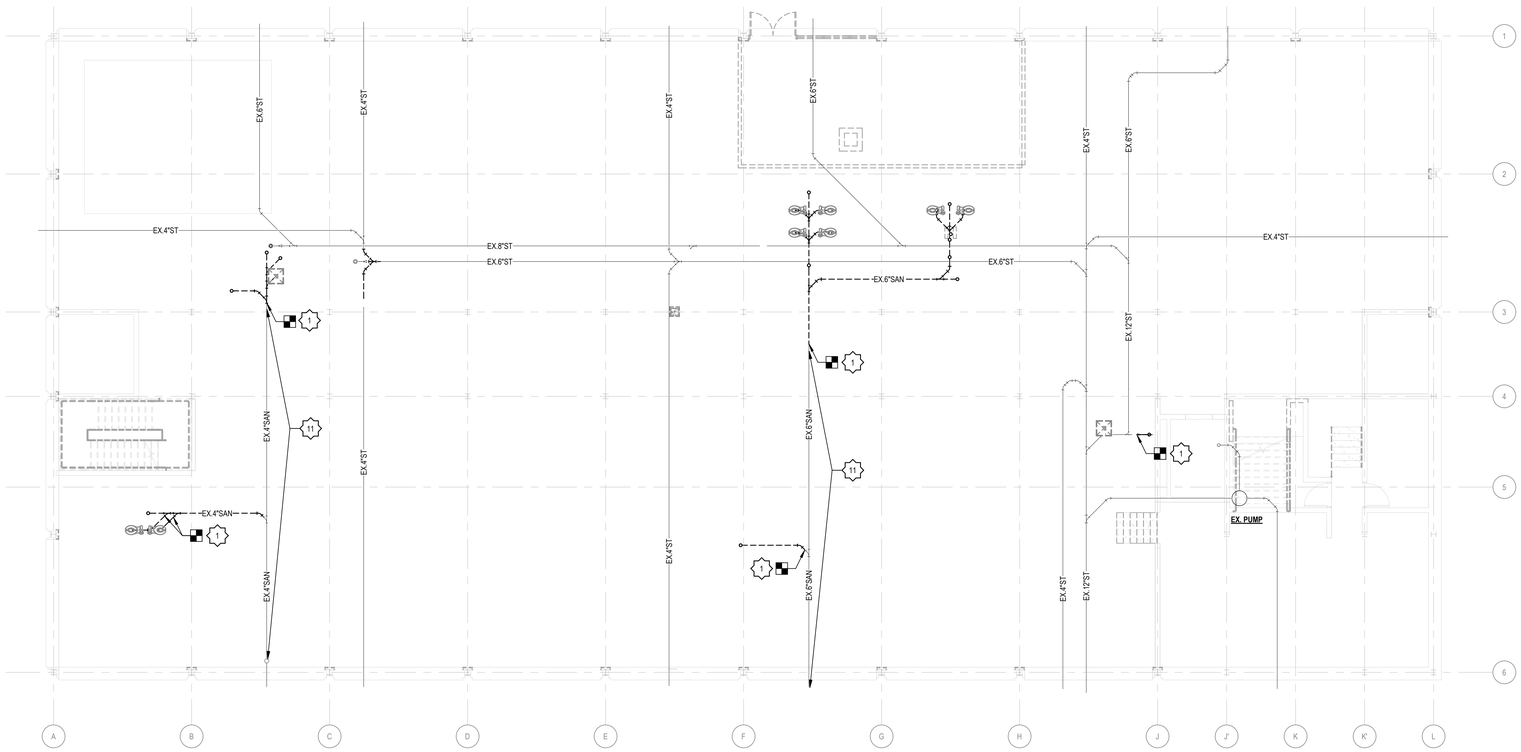
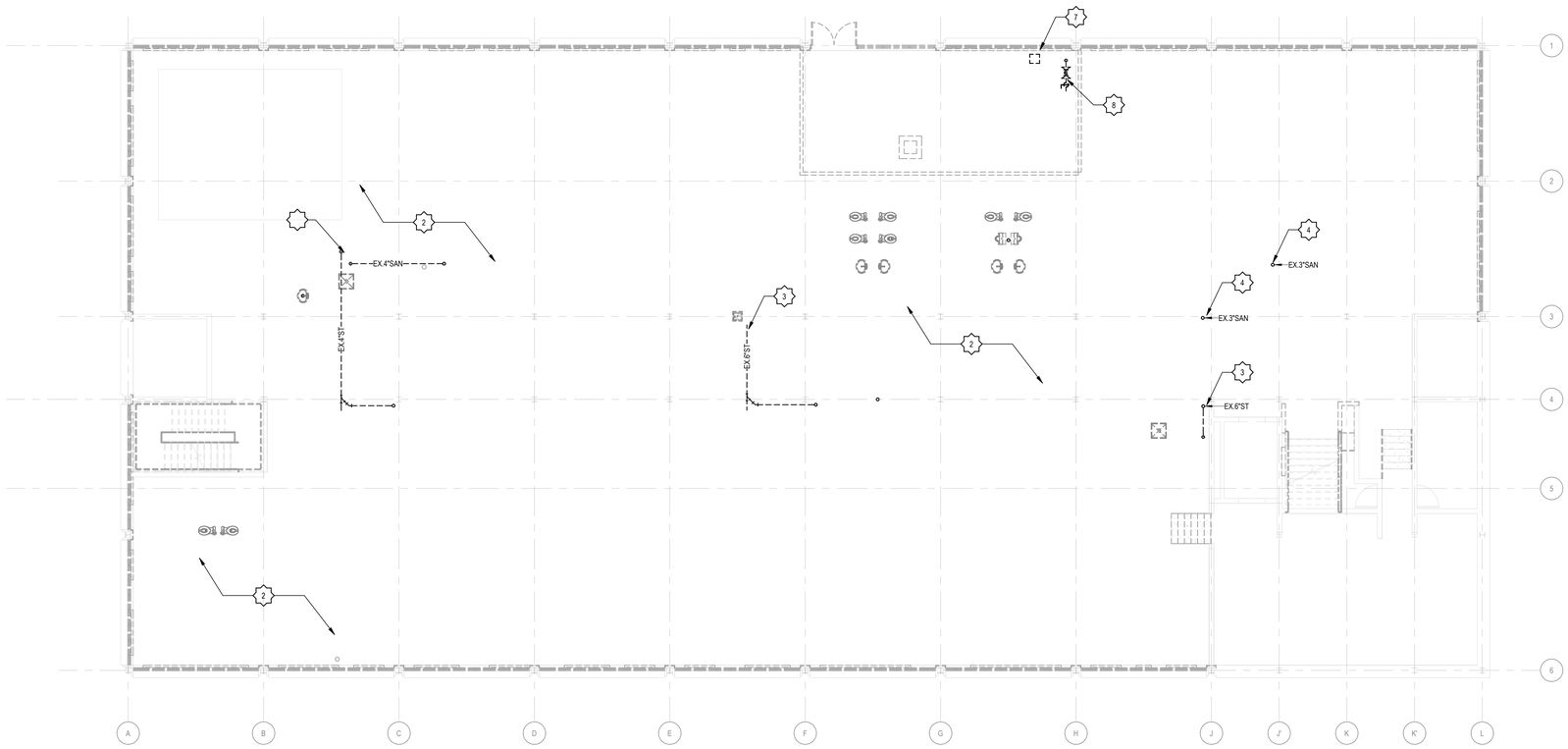


UNDERGROUND PLUMBING DEMOLITION PLAN

1/8" = 1'-0"



FIRST FLOOR PLUMBING DEMOLITION PLAN

1/8" = 1'-0"

PLUMBING DEMOLITION KEYNOTES

1. DISCONNECT AND DEMOLISH EXISTING SANITARY WASTE PIPING TO POINT OF DISCONNECTION. CAP AND SEAL PIPING TO REMAIN.
2. DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURES, FAUCETS, TRAPS, CARRIERS, AND ASSOCIATED ACCESSORIES.
3. DEMOLISH EXISTING SANITARY RISER AND ASSOCIATED BRANCH PIPING. CONTRACTOR SHALL FIELD VERIFY RISER SIZE, LOCATION, ROUTING, AND CONNECTION TO EXISTING PIPING PRIOR TO DEMOLITION. CAP AND SEAL CONNECTIONS TO PIPING TO REMAIN.
4. DEMOLISH EXISTING STORM RISER AND ASSOCIATED BRANCH PIPING UP TO ROOF DRAIN. CONTRACTOR SHALL FIELD VERIFY RISER SIZE, LOCATION, ROUTING, AND CONNECTION TO ROOF DRAIN PRIOR TO DEMOLITION. DISCONNECT ROOF DRAIN FROM EXISTING STORM PIPING AND PROTECT ROOF DRAIN FOR CONNECTION TO NEW WORK.
5. DISCONNECT AND DEMOLISH EXISTING DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING TO POINT OF DISCONNECTION. CAP AND SEAL PIPING TO REMAIN.
6. DISCONNECT AND REMOVE EXISTING PLUMBING EQUIPMENT, INCLUDING ASSOCIATED VALVES, PIPING CONNECTIONS, SUPPORTS, AND ACCESSORIES.
7. DISCONNECT AND DEMOLISH EXISTING NATURAL GAS PIPING AND GAS METER. EXISTING GAS METER SHALL BE REMOVED AND REPLACED DURING NEW CONSTRUCTION. COORDINATE REMOVAL WITH SERVING GAS UTILITY.
8. DISCONNECT AND REMOVE EXISTING DOMESTIC WATER METER AND ASSOCIATED VALVES AND CONNECTIONS. SALVAGE WATER METER FOR RELOCATION DURING NEW CONSTRUCTION.
9. DEMOLISH EXISTING ROOF DRAIN AND ASSOCIATED PIPING, CONNECTIONS, SUPPORTS, AND ACCESSORIES. COORDINATE ROOF OPENING AND PATCHING WITH ARCHITECTURAL AND ROOFING WORK.
10. FIELD VERIFY EXISTING RISER SIZES, LOCATIONS, ROUTING, AND CONNECTION POINTS PRIOR TO DEMOLITION. NOTIFY ENGINEER OF CONDITIONS THAT CONFLICT WITH NEW WORK.
11. CONTRACTOR SHALL VERIFY CONDITION OF EXISTING UNDERGROUND SANITARY PIPING TO REMAIN PRIOR TO DEMOLITION. NOTIFY ENGINEER OF DAMAGED OR DETERIORATED PIPING AND COORDINATE REQUIRED REPAIRS OR REPLACEMENT BEFORE PROCEEDING WITH AFFECTED WORK.

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UNDERGROUND & FIRST FLOOR PLUMBING DEMOLITION PLAN

PD100

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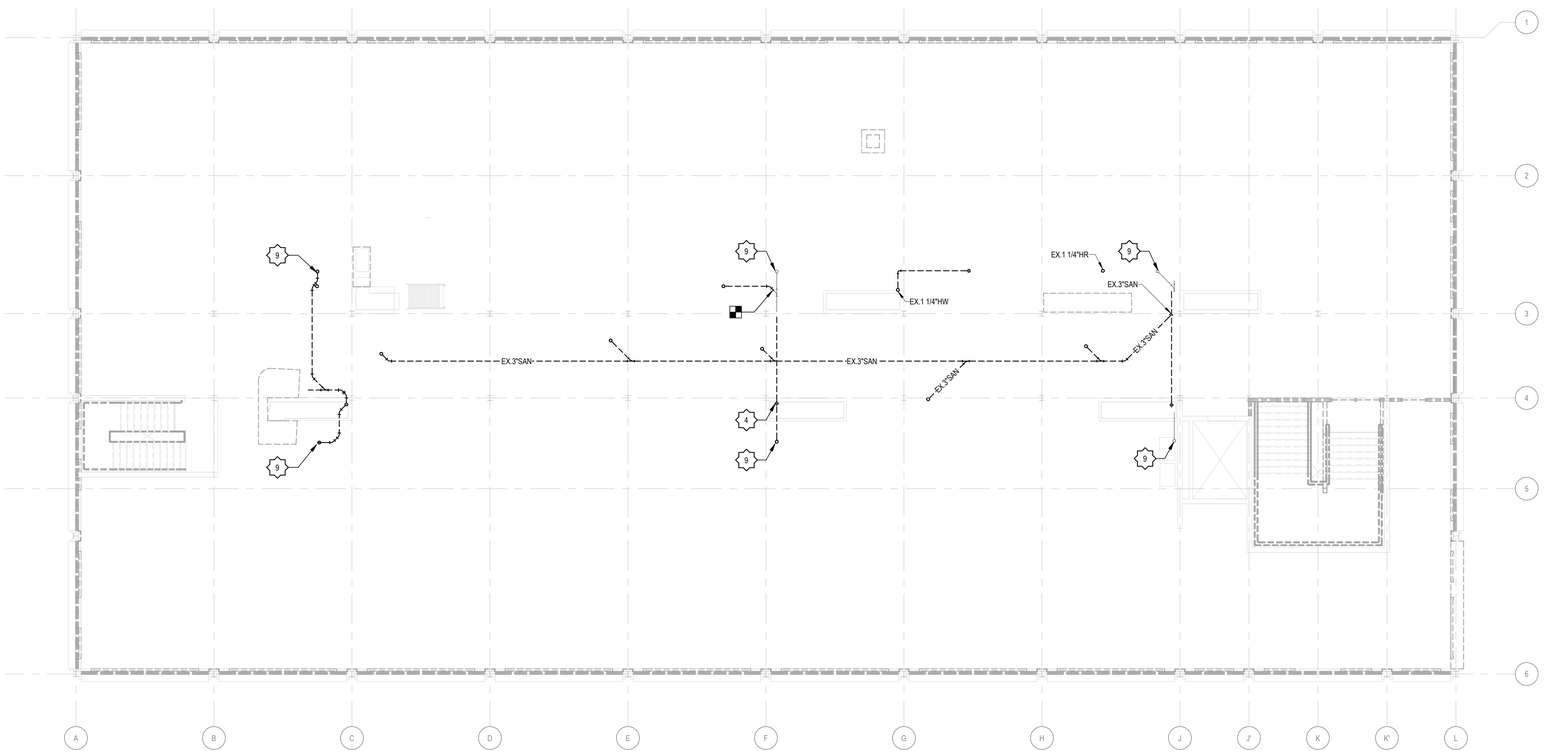
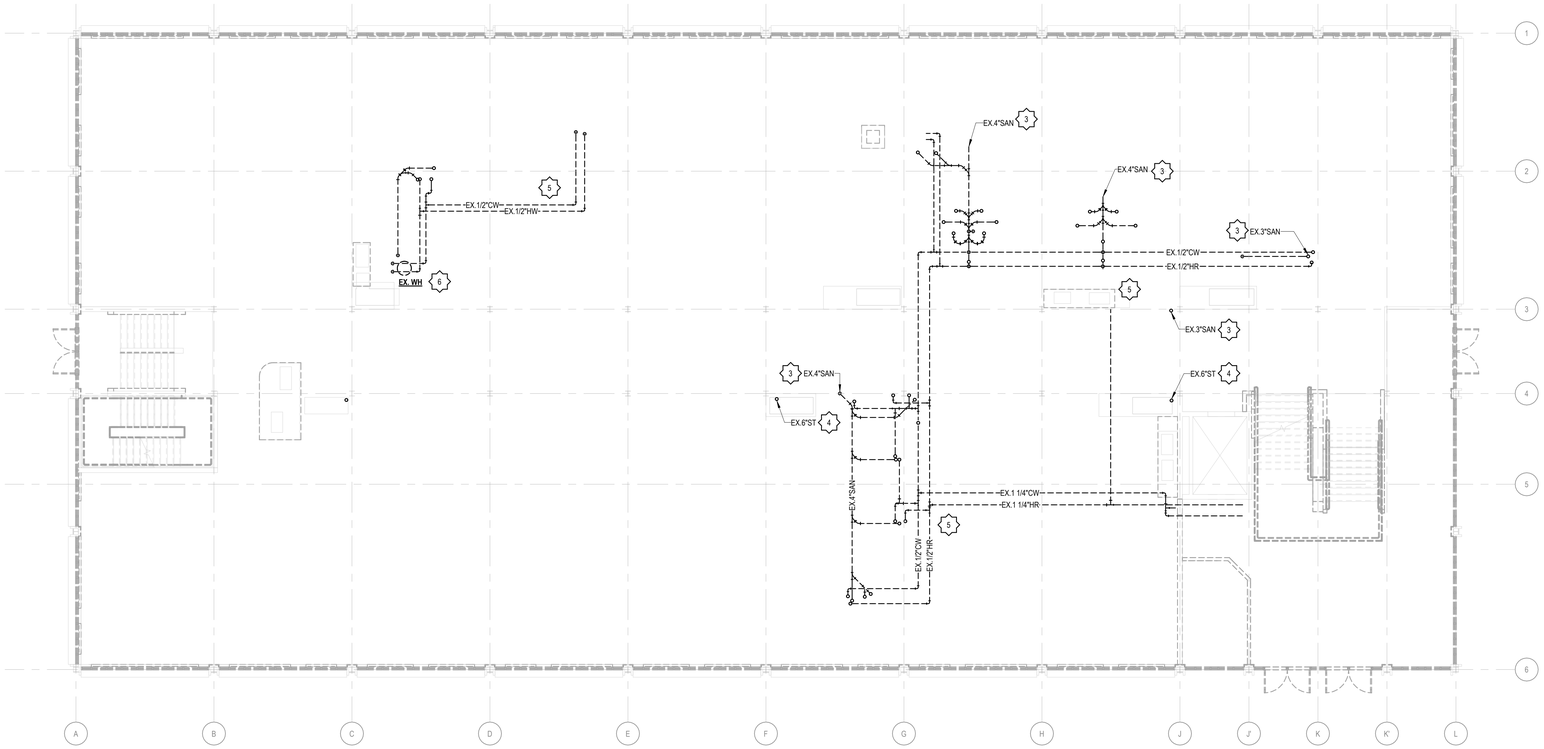


THIRD FLOOR PLUMBING DEMOLITION PLAN

1/8" = 1'-0"



SECOND FLOOR PLUMBING DEMOLITION PLAN

1/8" = 1'-0"

PLUMBING DEMOLITION KEYNOTES

1. DISCONNECT AND DEMOLISH EXISTING SANITARY WASTE PIPING TO POINT OF DISCONNECTION. CAP AND SEAL PIPING TO REMAIN.
2. DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURES, FAUCETS, TRAPS, CARRIERS, AND ASSOCIATED ACCESSORIES.
3. DEMOLISH EXISTING SANITARY RISER AND ASSOCIATED BRANCH PIPING. CONTRACTOR SHALL FIELD VERIFY RISER SIZE, LOCATION, ROUTING, AND CONNECTION TO EXISTING PIPING PRIOR TO DEMOLITION. CAP AND SEAL CONNECTIONS TO PIPING TO REMAIN.
4. DEMOLISH EXISTING STORM RISER AND ASSOCIATED BRANCH PIPING UP TO ROOF DRAIN. CONTRACTOR SHALL FIELD VERIFY RISER SIZE, LOCATION, ROUTING, AND CONNECTION TO ROOF DRAIN PRIOR TO DEMOLITION. DISCONNECT ROOF DRAIN FROM EXISTING STORM PIPING AND PROTECT ROOF DRAIN FOR CONNECTION TO NEW WORK.
5. DISCONNECT AND DEMOLISH EXISTING DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING TO POINT OF DISCONNECTION. CAP AND SEAL PIPING TO REMAIN.
6. DISCONNECT AND REMOVE EXISTING PLUMBING EQUIPMENT, INCLUDING ASSOCIATED VALVES, PIPING CONNECTIONS, SUPPORTS, AND ACCESSORIES.
7. DISCONNECT AND DEMOLISH EXISTING NATURAL GAS PIPING AND GAS METER. EXISTING GAS METER SHALL BE REMOVED AND REPLACED DURING NEW CONSTRUCTION. COORDINATE REMOVAL WITH SERVING GAS UTILITY.
8. DISCONNECT AND REMOVE EXISTING DOMESTIC WATER METER AND ASSOCIATED VALVES AND CONNECTIONS. SALVAGE WATER METER FOR RELOCATION DURING NEW CONSTRUCTION.
9. DEMOLISH EXISTING ROOF DRAIN AND ASSOCIATED PIPING, CONNECTIONS, SUPPORTS, AND ACCESSORIES. COORDINATE ROOF OPENING AND PATCHING WITH ARCHITECTURAL AND ROOFING WORK.
10. FIELD VERIFY EXISTING RISER SIZES, LOCATIONS, ROUTING, AND CONNECTION POINTS PRIOR TO DEMOLITION. NOTIFY ENGINEER OF CONDITIONS THAT CONFLICT WITH NEW WORK.
11. CONTRACTOR SHALL VERIFY CONDITION OF EXISTING UNDERGROUND SANITARY PIPING TO REMAIN PRIOR TO DEMOLITION. NOTIFY ENGINEER OF DAMAGED OR DETERIORATED PIPING AND COORDINATE REQUIRED REPAIRS OR REPLACEMENT BEFORE PROCEEDING WITH AFFECTED WORK.

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ISABELLA COUNTY ADMINISTRATION BUILDING INTERIOR RENOVATION

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ISSUANCE

10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
T. FREY
DRAWN BY
B. GARCIA
CHECKED BY
M. GROSE

SECOND FLOOR & THIRD FLOOR PLUMBING DEMOLITION PLAN

PD101

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SECOND FLOOR & THIRD FLOOR PLUMBING DEMOLITION PLAN
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FIRST FLOOR PLUMBING PLAN

1/8" = 1'-0"

UNDERFLOOR PLUMBING PLAN

1/8" = 1'-0"

? PLUMBING KEYNOTES

1. CONNECT NEW SANITARY PIPING TO EXISTING MAIN. CONTRACTOR TO VERIFY ROUTING AND INVERT IN FIELD PRIOR TO INSTALLATION.
2. CONNECT NEW STORM PIPING TO EXISTING MAIN. CONTRACTOR TO VERIFY ROUTING AND INVERT IN FIELD PRIOR TO INSTALLATION.
3. TERMINATE VENT THROUGH EXTERIOR WALL. PROVIDE WEATHER FLASHING AND SEAL ON INSULATED PANEL. COORDINATE ELEVATION TERMINATION WITH ARCHITECTURAL PLANS.
4. NEW INCOMING DOMESTIC WATER SERVICE. LOCATION TO BE COORDINATED WITH CIVIL PLANS.
5. INCOMING NATURAL GAS SERVICE. FINAL SIZE TO BE DETERMINED BY GAS SERVICE PROVIDER.
6. PROVIDE GAS PIPING CONNECTION TO EMERGENCY GENERATOR. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE FINAL CONNECTION LOCATION, AND PRESSURE REQUIREMENTS WITH GENERATOR MANUFACTURER.
7. CONNECT NEW STORM PIPING TO EXISITNG.

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UNDERGROUND & FIRST FLOOR PLUMBING PLAN

P101

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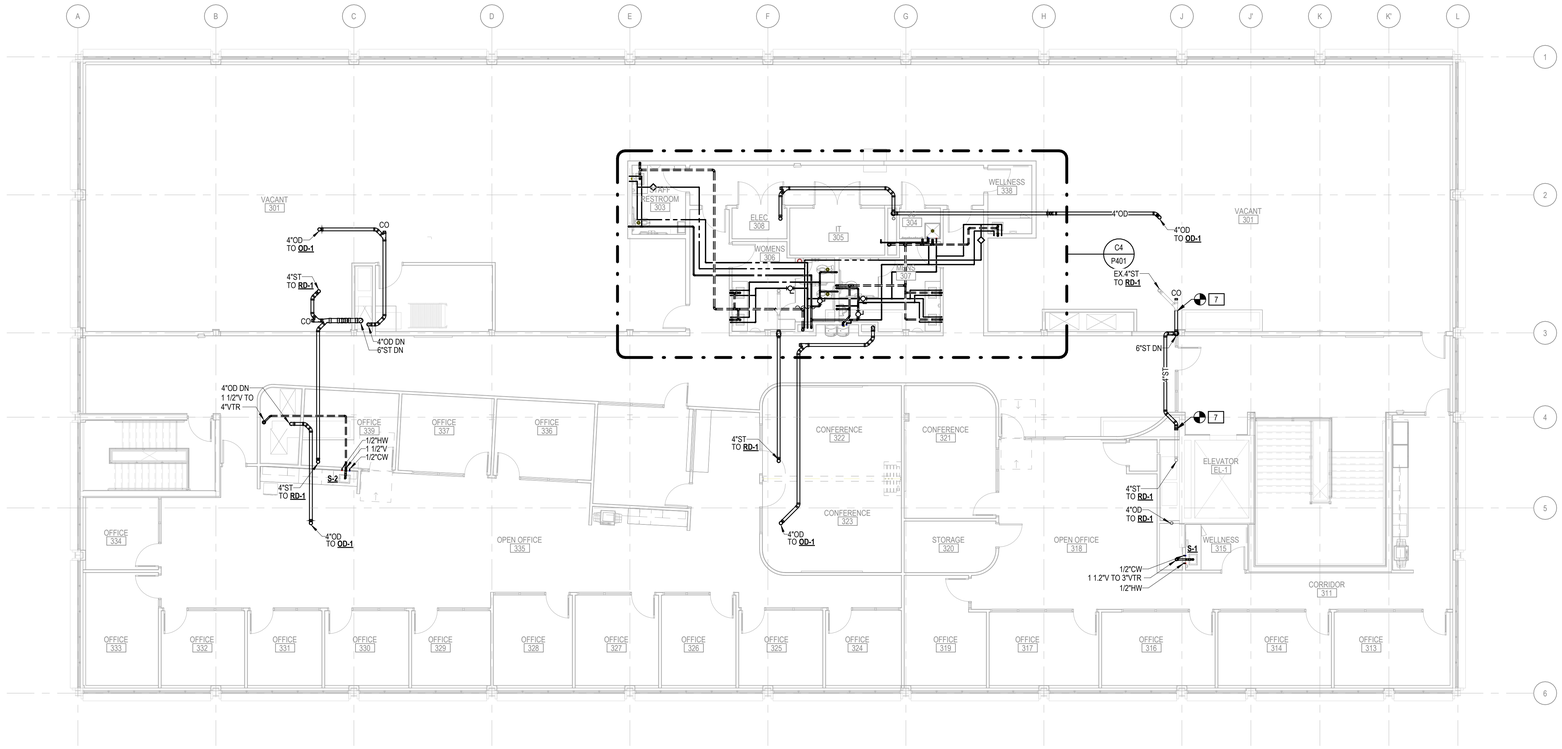
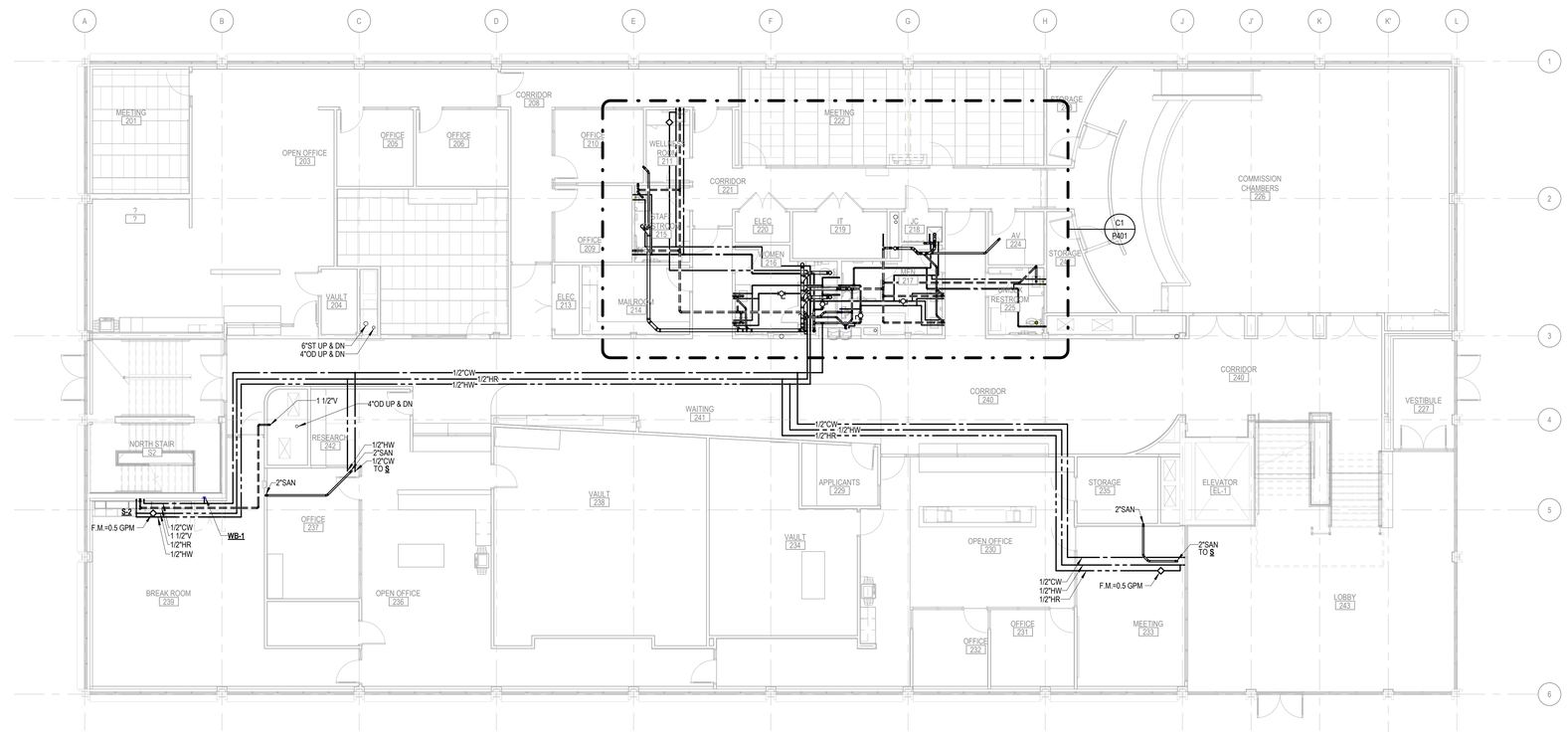


THIRD FLOOR PLUMBING PLAN

1/8" = 1'-0"



SECOND FLOOR PLUMBING PLAN

1/8" = 1'-0"

? PLUMBING KEYNOTES

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SECOND FLOOR & THIRD FLOOR PLUMBING PLAN

P102

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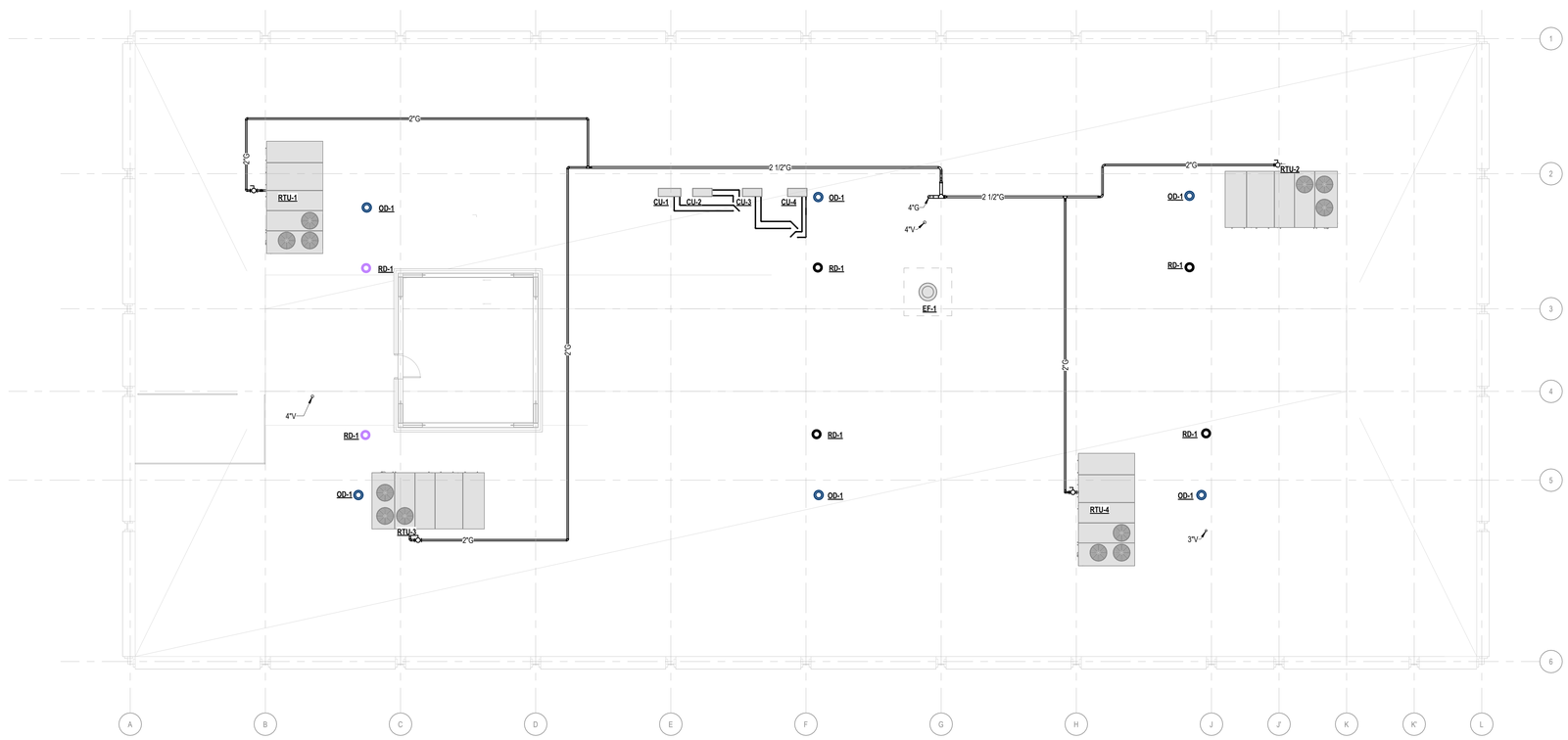

ROOF LEVEL PLUMBING PLAN

1/8" = 1'-0"

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ROOF PLUMBING PLAN

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ROOF PLUMBING PLAN

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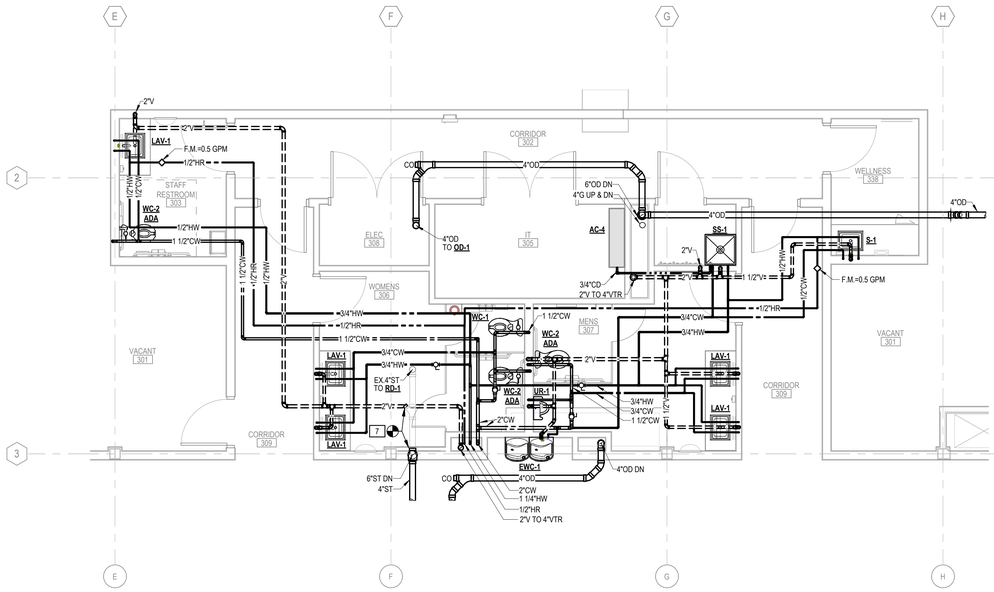
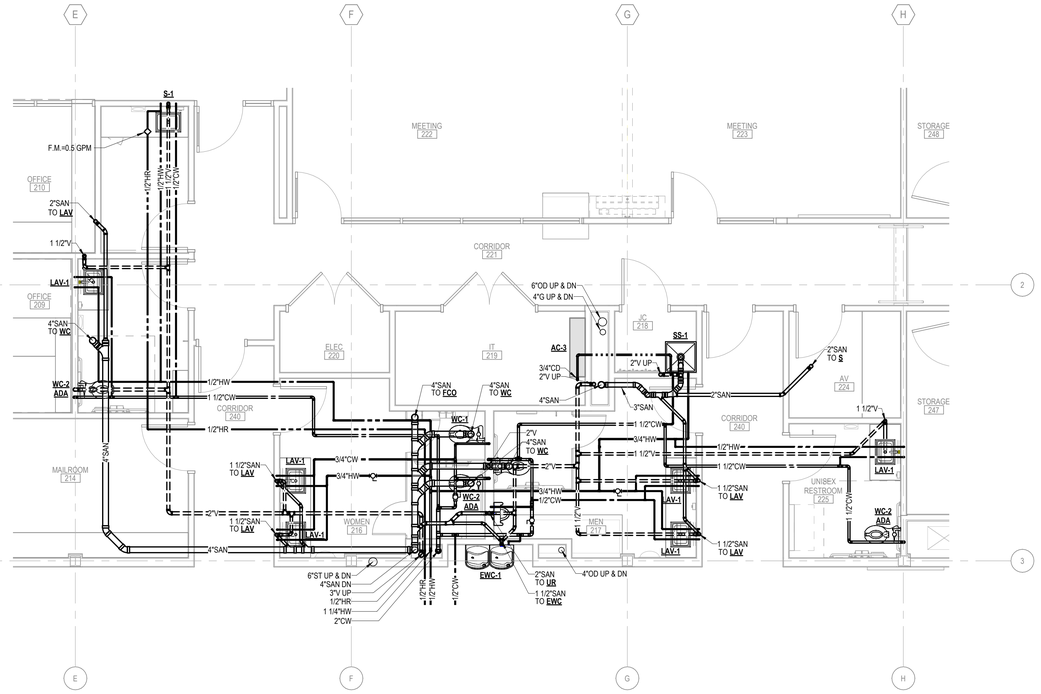
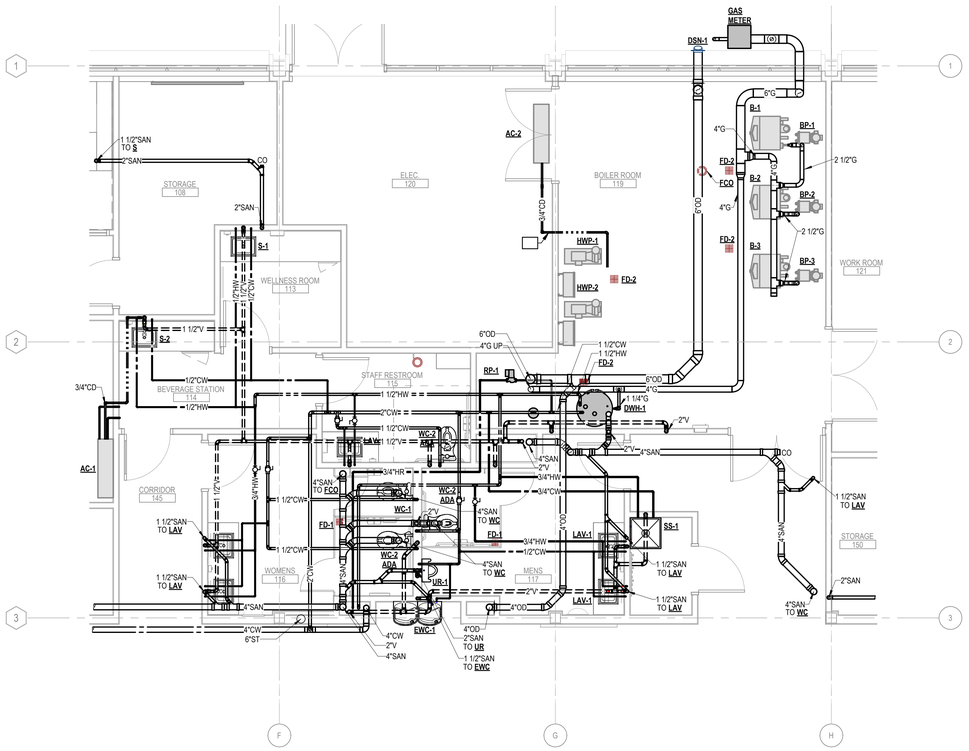


C4 ENLARGED THIRD FLOOR PLUMBING PLAN
1/4" = 1'-0"



C1 ENLARGED SECOND FLOOR PLUMBING PLAN
1/4" = 1'-0"



E1 ENLARGED FIRST FLOOR PLUMBING PLAN
1/4" = 1'-0"

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ENLARGED PLUMBING PLANS
P401

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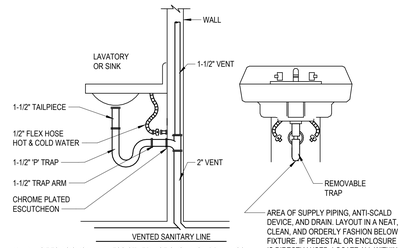
PLUMBING FIXTURE SCHEDULE

MARK	TYPE	FIXTURE BASIS OF DESIGN: MANUFACTURER	MODEL	DESCRIPTION	CW	HW	SAN	VENT	IMAGE	REMARKS
DSN-1	DOWNSPOUT COVER	ZURN	ZS199-DC	ROUND TYPE 304 STAINLESS STEEL DOWNSPOUT COVER WITH FABRICATED FRAME AND SECURED PERFORATED STAINLESS STEEL HINGED STRAINER. PROVIDE FASTENERS, BLOCKING, AND ACCESSORIES						
EWC-1	ELECTRIC WATER COOLER WITH BOTTLE FILLER	ELKAY	LZSTL8WSSK	BI-LEVEL ADA ELECTRIC WATER COOLER WITH INTEGRAL SENSOR OPERATED BOTTLE FILLER, STAINLESS STEEL UNIT WITH ELECTRONIC BOTTLE FILLER SENSOR, FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION, 8.0 GPH CHILLING CAPACITY, 1.1 GPM BOTTLE FILL RATE, VISUAL FILTER MONITOR, QUICK-CHANGE FILTER, REAL DRAIN, AND ACCESSORIES.	1/2"		1 1/2"	1 1/2"		
FD-1	FLOOR DRAIN	ZURN	Z415N-P	FLOOR DRAIN WITH DURA-COATED CAST IRON BODY, BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, TYPE N LIGHT-DUTY STRAINER WITH DEEP FLANGED GRATE, AND 1/2" TRAP PRIMER CONNECTION.			3"			
FD-2	FLOOR DRAIN	ZURN	Z415N-P	FLOOR DRAIN WITH DURA-COATED CAST IRON BODY, BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, TYPE N LIGHT-DUTY STRAINER WITH DEEP FLANGED GRATE, AND 1/2" TRAP PRIMER CONNECTION.			4"			
FD-3	FLOOR DRAIN	ZURN	Z1901-P	12" X 12" X 8" DEEP SANI-FLOR FLOOR SINK / INDIRECT WASTE RECEPTOR WITH CAST IRON BODY, SQUARE LIGHT-DUTY GRATE WITH 1/2" SLOTTED OPENINGS, WHITE ACID-RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, AND ANTI-SPLASH BOTTOM DOME STRAINER. PROVIDE 1/2" TRAP PRIMER CONNECTION, 3" NO-HUB OUTLET			4"			
LAV-1	LAVATORY	KOHLER	K-2005	VITREOUS CHINA WALL-MOUNT LAVATORY WITH CONCEALED ARM CARRIER INSTALLATION, OVERFLOW, 4" CENTERSET FAUCET HOLES, AND WALL HANGER. PROVIDE KOHLER CORALAIS MODEL K-15243-4RA TWO-HANDLE CENTERSET FAUCET WITH LEVER HANDLES, 0.5 GPM VANDAL-RESISTANT AERATOR, GRID DRAIN WITH TAILPIECE, POLISHED CHROME FINISH, AND ACCESSORIES. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE, INSULATED P-TRAP, SUPPLY STOPS AND SUPPLY COVERS.			1 1/4"			
OD-1	OVERFLOW ROOF DRAIN	JAY R. SMITH	Z100-C-R-W2	15" DIAMETER OVERFLOW ROOF DRAIN WITH DURA-COATED CAST IRON BODY, MEMBRANE FLASHING CLAMP, LOW-SILHOUETTE POLY-DOME, UNDERDECK CLAMP, ROOF SUMP RECEIVER, 2" INTERNAL WATER DAM, AND NO-HUB OUTLET.						
RD-1	ROOF DRAIN	JAY R. SMITH	Z100-C-R	15" DIAMETER ROOF DRAIN WITH DURA-COATED CAST IRON BODY, MEMBRANE FLASHING CLAMP, LOW-SILHOUETTE POLY-DOME, UNDERDECK CLAMP, ROOF SUMP RECEIVER, AND NO-HUB OUTLET.						
S-1	HANDSINK	KOHLER	K-2297	VITREOUS CHINA RECTANGULAR UNDERMOUNT SINK WITH SINGLE BOWL AND OVERFLOW. PROVIDE KOHLER PURIST MODEL K-14406-4 WIDESPREAD FAUCET WITH LEVER HANDLES, 1.2 GPM FLOW RATE, METAL TOUCH-ACTIVATED DRAIN WITH 1-1/4" TAILPIECE. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE, P-TRAP, SUPPLY STOPS, AND ACCESSORIES.			2"			
S-2	SINK	KOHLER	K-3822	24" 18-GAUGE STAINLESS STEEL SINGLE-BOWL UNDERMOUNT KITCHEN SINK WITH REAR DRAIN AND INSTALLATION HARDWARE. PROVIDE KOHLER CRUE MODEL K-22972 SINGLE-HANDLE PULL-DOWN FAUCET WITH THREE-FUNCTION SPRAYHEAD, 1.5 GPM FLOW RATE, CERAMIC DISC VALVE, FLEXIBLE SUPPLY LINES, AND ESCUTCHEON PLATE. PROVIDE KOHLER MODEL K-8801 SINK DRAIN AND STRAINER WITH TAILPIECE, P-TRAP, SUPPLY STOPS, AND ACCESSORIES.			2"			
SS-1	SERVICE SINK	MUSTEE	MODEL 63M	MOLDED FIBERGLASS SERVICE BASIN. PROVIDE WITH CHICAGO FAUCETS MODEL 897-MPRCF EXPOSED WALL-MOUNT SERVICE FAUCET WITH VACUUM BREAKER, PAIL HOOK, WALL BRACE, AND ADJUSTABLE ARMS. PROVIDE WIDE TOP SINK STRAINER, P-TRAP, SUPPLY STOPS, AND ACCESSORIES.	1/2"	1/2"	3"	1 1/2"		
UR-1	URINAL	KOHLER	K-4991-ET	VITREOUS CHINA WALL-HUNG HIGH-EFFICIENCY WASHOUT URINAL WITH 3/4" TOP SPUD, 2" OUTLET, STRAINER, AND WALL HANGERS. PROVIDE AMERICAN STANDARD MODEL 6045101.002 MANUAL PISTON-TYPE FLUSHOMETER, 1.0 GPF, POLISHED CHROME FINISH, NON-HOLD-OPEN HANDLE, CONTROL STOP, VACUUM BREAKER, SPUD COUPLING, AND ACCESSORIES.	1"		2"			
WB-1	WATER CONNECTION BOX	IPS CORPORATION	MIB1AB / 88133	RECESSED WHITE POWDER-COATED ICE MAKER OUTLET BOX WITH 20-GAUGE STEEL BOX AND FACEPLATE. PROVIDE LEAD-FREE BRASS QUARTER-TURN VALVE WITH 1/2" SWEAT CONNECTION AND ACCESSORIES.	1/2"					
WC-1	WATER CLOSET	KOHLER	K-96053	VITREOUS CHINA FLOOR-MOUNTED STANDARD-HEIGHT WATER CLOSET WITH ELONGATED BOWL AND 1-1/2" TOP SPUD. PROVIDE AMERICAN STANDARD MODEL 6047121.002 MANUAL PISTON-TYPE FLUSHOMETER, 1.28 GPF, POLISHED CHROME FINISH, NON-HOLD-OPEN HANDLE, CONTROL STOP, VACUUM BREAKER, SPUD COUPLING, AND ACCESSORIES. PROVIDE BEMIS MODEL 1955CT HEAVY-DUTY ELONGATED OPEN-FRONT SEAT, LESS COVER, COLOR WHITE.	1 1/2"		4"			
WC-2 ADA	WATER CLOSET	KOHLER	K-96057	VITREOUS CHINA FLOOR-MOUNTED ADA WATER CLOSET WITH ELONGATED BOWL AND 1-1/2" TOP SPUD. PROVIDE AMERICAN STANDARD MODEL 6047121.002 MANUAL PISTON-TYPE FLUSHOMETER, 1.28 GPF, POLISHED CHROME FINISH, NON-HOLD-OPEN HANDLE, CONTROL STOP, VACUUM BREAKER, SPUD COUPLING, AND ACCESSORIES. PROVIDE BEMIS MODEL 1955CT HEAVY-DUTY ELONGATED OPEN-FRONT SEAT, LESS COVER, COLOR WHITE. INSTALL FLUSHOMETER CONTROL ON OPEN SIDE OF ACCESSIBLE FIXTURE	1 1/2"		4"			

GAS LOAD SCHEDULE

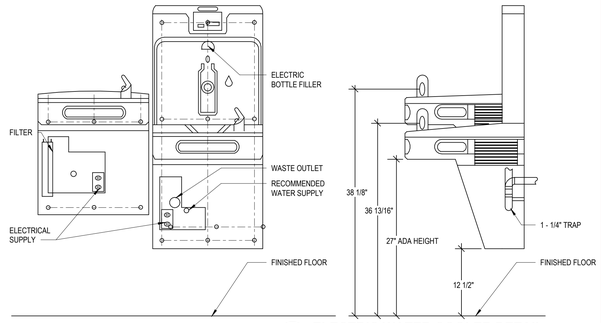
EQUIPMENT	BTUH	PRESSURE MIN	PRESSURE MAX
RTU-1	350,000	7 IN-W.C.	14 IN-W.C.
RTU-2	350,000	7 IN-W.C.	14 IN-W.C.
RTU-3	350,000	7 IN-W.C.	14 IN-W.C.
RTU-4	350,000	7 IN-W.C.	14 IN-W.C.
B-1	600,000	4 IN-W.C.	14 IN-W.C.
B-2	600,000	4 IN-W.C.	14 IN-W.C.
B-3	600,000	4 IN-W.C.	14 IN-W.C.
DWH-1	125,000	4 IN-W.C.	14 IN-W.C.
EM. GENERATOR	795,000	5 IN-W.C.	11 IN-W.C.
TOTAL BUILDING	4,121,000		

NOTES:
1. GAS PIPING HAS BEEN SIZED BASED ON TOTAL CONNECTED LOAD SHOWN AND 250 FT EQUIVALENT DEVELOPED LENGTH TO THE MOST REMOTE OUTLET.
2. VERIFY GAS METER, REGULATOR, AND UTILITY SERVICE CAPACITY ARE ADEQUATE FOR TOTAL BUILDING LOAD SHOWN. COORDINATE WITH LOCAL GAS SERVICE UTILITY.
3. PROVIDE GAS PRESSURE REGULATORS AS REQUIRED TO MAINTAIN EQUIPMENT INLET PRESSURES WITHIN MANUFACTURER'S SPECIFIED OPERATING RANGE.



1. ALL SIZES AS SHOWN UNLESS OTHERWISE SHOWN ON DRAWINGS.
2. LAVATORIES SHALL BE PIPED WITH 1-1/4" P-TAP AND TAIL-PIECE, SINKS 1-1/2".

A1 TYPICAL SINK/LAVATORY DETAIL
NOT TO SCALE



B1 ELECTRIC WATER COOLER DETAIL
NOT TO SCALE

PUMP SCHEDULE

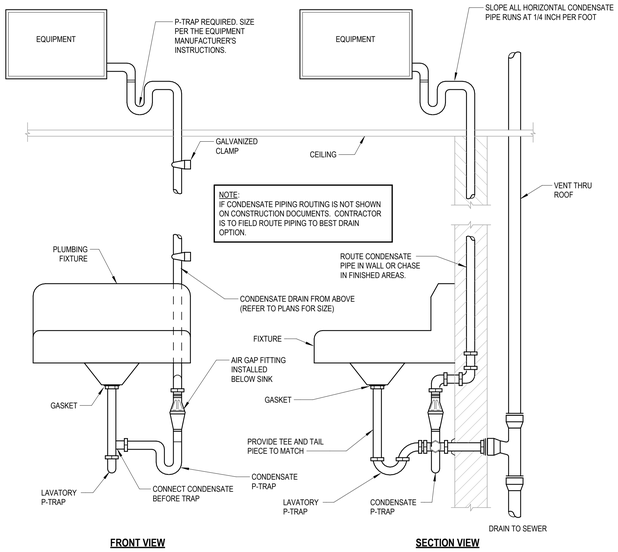
MARK	DESCRIPTION	MANUFACTURER	MODEL	FLOW (GPM)	HEAD (FT)	ELECTRICAL: V	HZ	PH	HP	REMARKS
RP-1	DOMESTIC HOT WATER RECIRC PUMP	BELL & GOSSETT	ECOCIRC XL 20-35	2.5	9	115	60	1	0.08	1-3
DCBP-1	DOMESTIC WATER BOOSTER PUMP	BELL & GOSSETT	MBX2D40B	100	146	208	60	3	4.00	4

NOTES:
1. PROVIDE WITH MANUFACTURER-INTEGRATED VARIABLE SPEED CONTROL, MOTOR PROTECTION, AND REQUIRED CONNECTION ACCESSORIES.
2. PROVIDE AQUASTAT THERMOSTATIC CONTROLLER. INTERLOCK PUMP WITH BAS FOR TEMPERATURE- AND TIME-BASED OPERATION.
3. PROVIDE ELECTRICAL DISCONNECT SWITCH.
4. PROVIDE WITH MANUFACTURER-INTEGRATED SINGLE-POINT POWER PANEL AND DISCONNECT SWITCH.

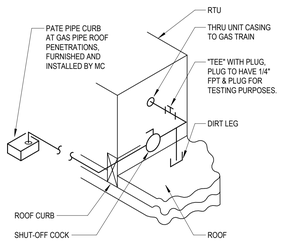
GAS WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	CAPACITY (GAL)	GPH @ 100°F RISE	INPUT BTUH	VENT SIZE	REMARKS
DWH-1	LOCHINVAR	SWR125N	65	145	125,000	3"	1-4

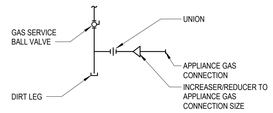
NOTES:
1. MANUFACTURER-PROVIDED CONDENSATE NEUTRALIZATION KIT.
2. FACTORY-PROVIDED TEMPERATURE AND PRESSURE RELIEF AND DRAIN VALVE.
3. PROVIDE MANUFACTURER VENT STARTER SECTION.
4. PROVIDE FULL-PORT ISOLATION VALVES, UNIONS, AND Y-STRAINER AT WATER HEATER CONNECTIONS.



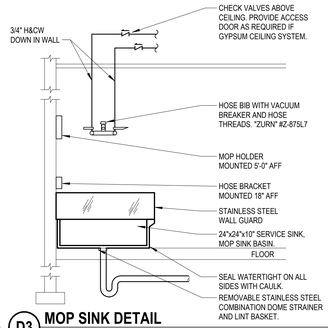
E6 CONDENSATE DRAIN TO SINK AND VENT DETAIL
NOT TO SCALE



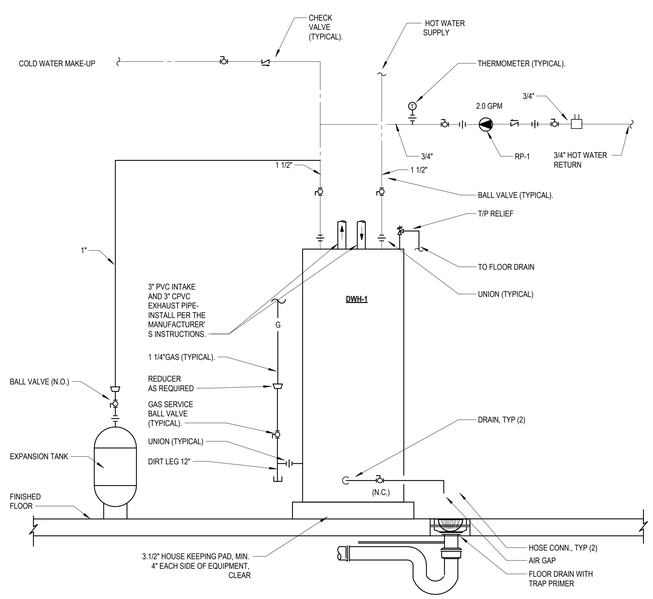
D5 RTU GAS PIPING
NOT TO SCALE



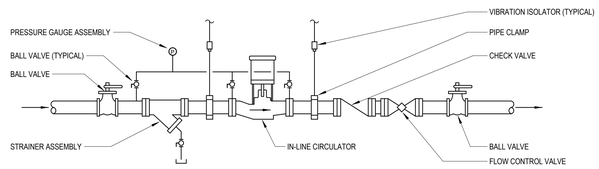
D4 GAS PIPING DIAGRAM
NOT TO SCALE



D3 MOP SINK DETAIL
NOT TO SCALE

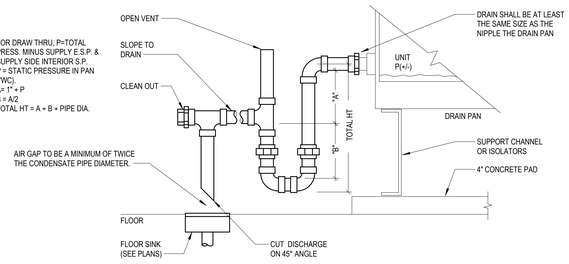


D1 HOT WATER SYSTEM PIPING SCHEMATIC
NOT TO SCALE

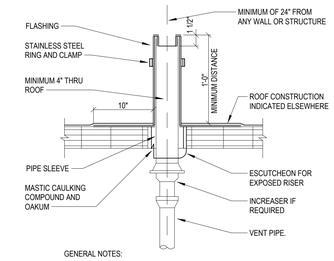


E4 HYDRONIC IN-LINE PUMP PIPING DETAIL
NOT TO SCALE

NOTES:
1. FOR DRAW THRU, P=TOTAL PRESS. MINUS SUPPLY E.S.P. & SUPPLY SIDE INTERIOR S.P.
2. P = STATIC PRESSURE IN PAN (TWC)
3. A= 1" + P
4. B = A/2
5. TOTAL HT = A + B + PIPE DIA.



E2 RTU CONDENSATE TRAP DETAIL
NOT TO SCALE



GENERAL NOTES:
1. VENT THRU ROOF (VTR) FOR PIPES SIZES SMALLER THAN 3" MUST BE INCREASED TO MINIMUM OF 3".
2. INCREASE IN PIPE DIAMETER MUST BE MADE A MINIMUM OF 12" INSIDE THE BUILDING.

E1 PLUMBING VENT THROUGH ROOF DETAIL
NOT TO SCALE

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ISSUANCE
10/13/2026 BIDS

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PLUMBING DETAILS
P501

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DUCT CONSTRUCTION & MATERIAL SCHEDULE

DUCT SYSTEM	MATERIAL: G90 GALVANIZED SHEET METAL	G90 GALVANIZED SHEET METAL W/ 1 IN LINING	ALUMINUM	TYPE 304 STAINLESS STEEL	16 GA CARBON STEEL	DOUBLE-WALL LINED G90 GALVANIZED SHEET METAL W/ SOLID INNER WALL	DOUBLE-WALL LINED G90 GALVANIZED SHEET METAL W/ PERFORATED INNER WALL	ZERO-CLEARANCE 2-HR RATED PREMANUFACTURED GREASE EXHAUST DUCT	PRESSURE CLASS (IN WG)	SEAL CLASS	MAX ALLOWED LEAKAGE RATE (%)	REMARKS
SUPPLY AIR WITHOUT TERMINAL UNITS	x								+2	A	5	
RETURN AIR	x								-2	A	5	
SUPPLY AIR DOWNSTREAM OF TERMINAL UNITS	x								+2	A	5	
SUPPLY AIR UPSTREAM OF TERMINAL UNITS	x								+6	A	5	
GENERAL EXHAUST	x								-2	A	5	
SHOWER RM (WET AREA) EXHAUST				x	x		x		-2	A	5	
KITCHEN TYPE I EXHAUST						x		x	-6	A	5	A
DISHWASHER TYPE II EXHAUST					x				-6	A	5	A
OUTSIDE AIR & EXHAUST AIR PLENUMS AT LOUVERS	x			x					+2/ -2	A	5	
SPIRAL SUPPLY FROM RTU-W106								x	+2	A	5	
AIR TRANSFER DUCTS		x							+2	A	5	
PLENUM RETURNS TO RTUS		x							+2	A	5	

REMARKS:
A. ALL WELDED CONSTRUCTION.

DUCT INSULATION SCHEDULE

DUCT SYSTEM	MATERIAL & THICKNESS (IN): FIBERGLASS BLANKET	FIBERGLASS BOARD	FLEXIBLE ELASTOMERIC	ASTM E2336 2-HOUR FIRE RATED BLANKET	JACKET: ALUMINUM	CANVAS	MINIMAL THERMAL RESISTANCE VALUE (R-VALUE)	REMARKS
SUPPLY AIR EXCEPT AS NOTED BELOW	1.5						6	
RECTANGULAR SUPPLY AIR IN MECHANICAL ROOMS		1.5				x	6	
RETURN AIR								
RETURN AIR IN MECHANICAL ROOMS								
OUTSIDE AIR AND MIXED AIR	1.5	1.5					6	
DUCT EXPOSED TO OUTDOORS		2	2		x		8, 12	D
KITCHEN TYPE I EXHAUST (GREASE DUCT)				x				A
DISHWASHER TYPE II EXHAUST								
OUTSIDE AIR & EXHAUST AIR PLENUMS AT LOUVERS								
SPIRAL DUCT EXPOSED TO FINISHED SPACE							6	B
WET EXHAUST DUCTS EXPOSED TO FINISHED SPACE	1.5						6	
GENERAL EXHAUST DUCTS WITHIN 10 FT OF DISCHARGE	1.5	1.5					6	
AIR TRANSFER DUCTS								C
COMBUSTION AIR DUCTS	1.5	1.5					6	

REMARKS:
A. PROVIDE THICKNESS AS REQUIRED TO MEET 2 HOUR RATING.
B. REFER TO DOUBLE WALL DUCT SPECIFICATION
C. SHALL BE INTERNALLY LINED. REFER TO CONSTRUCTION SCHEDULE AND PLANS.
D. R-8 REQUIRED FOR CLIMATE ZONES 0 TO 4. R-12 REQUIRED FOR CLIMATE ZONES 5 TO 8.

ABBREVIATIONS - HVAC

Φ	FLAT OVAL DUCT
AC	AIR COMPRESSER
AC	ARCHITECTURAL CONTRACTOR
ACL	ACOUSTICALLY LINED
ACU	AIR CONDITIONING UNIT
ACV	AIR CONTROL VALVE
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFS	AIR FLOW SWITCH
AFT	AIR FLOW TRANSMITTER
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
AQ-STAT	AQUA STAT
AS	AMP SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
ATT	SOUND ATTENUATOR
AVS	ACID VENT STACK
AW	ACID WASTE
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BBD	BOILER BLOWDOWN
BC	BOOSTER COIL
BDD	BACKDRAFT DAMPER
BFP	BOILER FEEDWATER PUMP
BHP	BREAK HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BP	BACKFLOW PREVENTER
C	CONVECTOR
CAB	CABINET
CAP	CAPACITY
CC	COOLING COIL
CD	COLD DECK
CD	CONDENSATE DRAIN
CF	CEILING FAN
CF	CUBIC FOOT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CABINET HEATER
CLR	CLEAR, CLEARANCE
CMP	CORRUGATED METAL PIPE
CMPR	COMPRESSOR
CNR	CONDENSER WATER RETURN
CNS	CONDENSER WATER SUPPLY
COMP	COMPARTMENT
COND	CONDENSATE
CONV	CONVECTOR
COORD	COORDINATE
CP	CIRCULATING PUMP
CT	COOLING TOWER
CTR	COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
CU	COPPER
CV	CONTROL VALVE
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DB	DRY BULB
DB	DIALYSIS WASTE & SUPPLY BOX
DDC	DIRECT DIGITAL CONTROLS
DDTU	DUAL DUCT TERMINAL UNIT
DIFF	DIFFUSER
DISC	DISCONNECT
DPR	DAMPER
DT	DOUBLE THROW
EA	EXHAUST AIR
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EG	EXHAUST AIR GRILLE
EHC	ELECTRIC HEATING COIL
EIH	ELECTRIC INFARED HEATER
EM	EMERGENCY
ENT	ENTERING
ERC	ENERGY RECOVERY COIL
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXH	EXHAUST
EXP	EXPLOSION PROOF
F&T	FLOAT & THERMOSTATIC STEAM TRAP
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FDS	FUSED DISCONNECT SWITCH
FM	FORCEMAIN
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FPM	FEET PER MINUTE
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
FT	FIN TUBE
G	GAS
GEN	GENERATOR
GLR	GROUND LOOP RETURN
GLS	GROUND LOOP SUPPLY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HC	HEATING COIL
HG	REFRIGERATION HOT GAS
HP	HORSEPOWER
HP STM	HIGH PRESSURE STEAM
HPR	HEAT PUMP WATER RETURN
HPS	HEAT PUMP WATER SUPPLY
HR	HEATING WATER RETURN, HOUR
HS	HEATING WATER SUPPLY
HSKP	HOUSEKEEPING PAD
HTG	HEATING
HTP	HEAT PUMP
HTR	HEATER
HUM	HUMIDIFIER
HW	HOT WATER
HWP	HYDRONIC WATER PUMP
HX	HEAT EXCHANGER
HZ	HERTZ
INS	INSULATE, INSULATION
IR	INFRARED
KVAR	KILOVOLT-AMPERES REACTIVE
L	REFRIGERATION LIQUID
LAB	LABORATORY
LAT	LEAVING AIR TEMPERATURE
LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MB	MOP BASIN
MBH	THOUSAND BRITISH THERMAL UNIT
MCA	MINIMUM CIRCUIT AMPS
MD	MOTORIZED DAMPER, MOTION DETECTOR
MOP	MAXIMUM OVERCURRENT PROTECTION
NC	NORMALLY CLOSED
NF	NONFUSED
NFDS	NONFUSED DISCONNECT SWITCH
NG	NATURAL GAS
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OHD	OVERHEAD DOOR
OPG	OPENING
ORD	OVERFLOW ROOF DRAIN
OV	OUTLET VELOCITY
P	PUMP
P/T	PETE'S PLUG
PC	PUMPED CONDENSATE
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP
PF	PUMP - FIRE PROTECTION
PH	PHASE
PP	PUMP - PLUMBING
PR	PERIMETER RADIATION
PRV	PRESSURE REDUCING VALVE
PRV	POWER ROOF VENTILATOR
PSIG	POUNDS PER SQUARE INCH GAUGE
R	RISER
RA	RETURN AIR
RAF	RETURN AIR FAN
RC	RE-HEAT COIL
RCP	RADIANT CEILING PANEL
RG	RETURN AIR GRILLE
RP	RADIANT PANEL
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RR	RETURN AIR REGISTER
RR	REST ROOM
RTU	ROOFTOP UNIT
RV	RELIEF VENT
S	REFRIGERATION SUCTION
SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAT	SATURATED
SC	STEAM COIL
SD	SUPPLY AIR DIFFUSER
SG	SUPPLY AIR GRILLE
SG	SPECIFIC GRAVITY
SK	SINK
SM	SURFACE MOUNTED
SMM	SNOW MELT MANIFOLD
SMR	SNOW MELT RETURN
SMS	SNOW MELT SUPPLY
SR	SUPPLY AIR REGISTER
STL	STEEL
STM	STEAM
STOR	STORAGE
TERM	TERMINAL
TF	TRANSFER FAN
TG	TRANSFER AIR GRILLE
THERM	100 CUBIC FEET OF NATURAL GAS
TOC	TOP OF CURB
TR	TAMPER RESISTANT
TSE	TOP OF STEEL ELEVATION
TU	TERMINAL UNIT
U/V	UNIT VENTILATOR
UH	UNIT HEATER
V	VOLTS
VAV	VARIABLE AIR VOLUME
VCD	VOLUME CONTROL DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VI	VIBRATION ISOLATOR
VOL	VOLUME
WB	WET BULB
WHTR	WATER HEATER
XFER	TRANSFER

HYDRONIC PIPING SYMBOLS

- ANGLE RELIEF VALVE
- ANGLED STOP CHECK VALVE
- BALANCING VALVE
- BUTTERFLY VALVE
- BALL VALVE
- CHECK VALVE W/ARROW INDICATING FLOW
- GATE VALVE
- GLOBE VALVE
- LINEAR STOP CHECK VALVE
- GAS VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- SOLENOID VALVE
- PNEUMATIC CONTROL VALVE - TWO WAY
- PNEUMATIC CONTROL VALVE - THREE WAY
- MOTORIZED CONTROL VALVE - 2-WAY
- MOTORIZED CONTROL VALVE - 3-WAY
- FLOW MEASURING DEVICE
- HOSE BIBB
- MANUAL AIR VENT
- PRESSURE INDICATOR
- TEMPERATURE INDICATOR
- THERMOMETER
- ANCHOR
- CAP
- STRAINER
- UNION
- EXPANSION COMPENSATOR OR EXPANSION JOINT
- FLEXIBLE PIPE CONNECTOR
- PIPE GUIDE
- MH MANHOLE

HYDRONIC PIPING SYMBOLOGY

HS	HYDRONIC HEATING SUPPLY
HR	HYDRONIC HEATING RETURN
LPS	LOW PRESSURE STEAM (LESS THAN 15 PSI)
LPC	LOW PRESSURE STEAM CONDENSATE
MPS	MEDIUM PRESSURE STEAM (15 TO 150 PSI)
MPC	MEDIUM PRESSURE STEAM CONDENSATE
SMS	SNOW MELT SUPPLY
SMR	SNOW MELT RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CTS	COOLING TOWER SUPPLY
CTR	COOLING TOWER RETURN
HWS	HEATING HOT WATER SUPPLY
HWR	HEATING HOT WATER RETURN
CD	CONDENSATE DRAIN
PC	PUMPED CONDENSATE
GYS	GLYCOL SUPPLY
GYR	GLYCOL RETURN
REF	REFRIGERANT PIPING (SINGLE DX)
GLS	GROUND LOOP SUPPLY
GLR	GROUND LOOP RETURN
HPS	HEAT PUMP SUPPLY
HPR	HEAT PUMP RETURN
G	NATURAL GAS
G(EPS)	NATURAL GAS, EMERGENCY POWER

HYDRONIC PIPING NOTES

1. THE INSTALLATION OF ALL PIPING SHALL BE CLOSELY COORDINATED WITH SHEET METAL, ELECTRICAL, AND STRUCTURAL CONDITIONS. NOT ALL REQUIRED OFFSETS AND FITTINGS ARE INDICATED ON DRAWINGS, BUT SHALL BE PROVIDED. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR CLEARANCES.
2. ALL PIPING SHALL BE INSTALLED TO FACILITATE COIL REMOVAL, FILTER REPLACEMENT AND OPENING OF ACCESS PANELS.
3. INSTALL MAINS AS HIGH AS POSSIBLE. MANUAL AIR VENTS SHALL BE PROVIDED AT ALL PIPING HIGH POINTS AND END OF PIPING LOOPS. PROVIDE REMOVABLE INSULATION PLUG.
4. PIPE ANCHORS, EXPANSION LOOPS, AND GUIDES SHALL BE PROVIDED AS REQUIRED. REFER TO SPECIFICATIONS.
5. SLEEVE AND SEAL EXTERIOR WALL AND ROOF PENETRATIONS TO A WEATHER TIGHT CONDITION. SLEEVE AND SEAL INTERIOR FLOOR PENETRATIONS TO A WATER TIGHT CONDITION.
6. PROVIDE MINIMUM OF 3/4" PIPE FOR ALL PIPING UNLESS SHOWN OTHERWISE.
7. ALL VALVES ARE TO BE FULL LINE SIZE EXCEPT CONTROL AND BALANCING VALVES.
8. PROVIDE 1/2" DRAIN VALVES WITH HOSE-END CAPS AT ALL LOW POINTS IN PIPING. PROVIDE MINIMUM PITCH SUFFICIENT TO INSURE ADEQUATE DRAINING. PROVIDE REMOVABLE INSULATION PLUG.
9. ELEVATIONS AS SHOWN ON THE DRAWINGS ARE TO THE BOTTOM OF ALL PRESSURE PIPING AND TO THE INVERT OF ALL GRAVITY PIPING UNLESS OTHERWISE NOTED.
10. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD AND AS HIGH AS POSSIBLE TO THE UNDERSIDE OF THE STRUCTURE OR SLAB, WITH SPACE FOR INSULATION WHERE REQUIRED.
11. PIPING AND ASSOCIATED APPURTENANCES SHALL NOT INTERFERE WITH DOORS AND WINDOWS.
12. INSTALL PIPING WITHOUT FORCING OR SPRINGING.
13. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. PROVIDE OFFSETS IN PIPING AROUND OBSTRUCTIONS ENCOUNTERED IN FIELD.
14. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO, AND WITHIN 50 FEET OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS.
15. FOR BALANCING 3-WAY VALVES, BALANCE BY-PASS WITH VALVE AT 50% POSITION SUCH THAT TOTAL FLOW DOES NOT EXCEED 100%.
16. AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH UNIT'S DRAIN PAN SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET WITH "P" TRAP. CONDENSATE WATER PIPING SHALL BE A MINIMUM OF 3/4". SEE THE DETAILS SHOWN IN THE DRAWINGS OR MANUFACTURER'S LITERATURE FOR THE DEPTH OF THE AIR CONDITIONING CONDENSATE TRAP. PITCH DOWN IN DIRECTION OF FLOW. MINIMUM 1 INCH PER 10 FEET.
17. INSTALL PIPING SO ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
18. PROVIDE PRESSURE/TEMPERATURE (P/T) PLUGS, WITH CAPS UP AND DOWNSTREAM OF ALL EQUIPMENT, AT THE SUPPLY AND RETURN TAPS OF ALL PIPING BRANCHES AND/OR WHERE INDICATED. PROVIDE EXTENDED PLUGS AND LABELS WHERE PIPING IS INSULATED.
19. WHERE SPACE PERMITS PROVIDE AUXILIARY DRAIN PANS UNDER COOLING EQUIPMENT LOCATED ABOVE CEILINGS. WHERE SPACE DOES NOT PERMIT THE USE OF AN AUXILIARY DRAIN PAN PROVIDE WATER LEVEL DETECTION DEVICE (FLOAT SWITCH)CONFORMING TO UL 508 THAT WILL SHUT OFF THE EQUIPMENT SERVED IN THE EVENT THAT THE PRIMARY DRAIN IS BLOCKED.
20. PROVIDE FLUSHING VALVES AND TEES AT BOTH ENDS OF ALL EQUIPMENT. TAPS SHALL MATCH EQUIPMENT PIPING UP TO 1". FOR LARGER EQUIPMENT AND PIPE LOOPS, PROVIDE 1-1/2" TAPS AND VALVES.
21. ALL HYDRONIC PIPING BRANCH TAKEOFFS FROM MAINS SHALL BE MADE WITH SWING JOINTS.
22. USE THE FOLLOWING TABLE FOR PIPING RUNOUT SIZES TO HEATING AND COOLING ELEMENTS. REFER TO SCHEDULE FOR SPECIFIED GPM.

GPM RANGE	PIPE SIZE
0.5 - 2.5	3/4"
2.6 - 6.0	1"
6.1 - 10.0	1 1/4"
10.1 - 17.0	1 1/2"
17.1 - 35.0	2"

MECHANICAL SYMBOLS

- SD# ### — SUPPLY DIFFUSER, SD# ### CFM ARROWS INDICATE DIRECTION OF THROW
- SD# ### — SUPPLY DIFFUSER (4-WAY)
- RG# ### — RETURN OR EXHAUST REGISTER TYPE 'RG#' ### CFM
- EG# ### — EXHAUST REGISTER TYPE 'EG#' ### CFM
- ### ### — SIDEWALL SUPPLY, RETURN, OR EXHAUST REGISTER TYPE ### , ### CFM
- SUPPLY DUCT UP
- SUPPLY DUCT DOWN
- RETURN DUCT UP
- RETURN DUCT DOWN
- EXHAUST DUCT UP
- EXHAUST DUCT DOWN
- AIRFLOW SA — SUPPLY AIR BRANCH CONNECTION WITH VOLUME DAMPER
- AIRFLOW EGRA — RETURN AIR/EXHAUST AIR BRANCH CONNECTION WITH VOLUME DAMPER
- HORIZONTAL FIRE DAMPER
- VERTICAL FIRE DAMPER
- S — SMOKE HORIZONTAL FIRE DAMPER
- S — SMOKE VERTICAL FIRE DAMPER
- FS — COMBINATION FIRE/SMOKE HORIZONTAL FIRE DAMPER
- FS — COMBINATION FIRE/SMOKE VERTICAL FIRE DAMPER
- ATT-# — SOUND ATTENUATOR
- SP-### — PUMP(SCHEMATIC)
- ###-# — MECHANICAL EQUIPMENT (EXAMPLE ACV-##) SEE SCHEDULE FOR ADDITIONAL
- FT-# — FINNED TUBE RADIATION (SEE DETAIL AND SCHEDULE)
- CUH-# — CABINET UNIT HEATER, TYPE 'CUH-#'
- C-# — CONVECTOR, TYPE 'C-#'
- VOLUME DAMPER
- MOTORIZED CONTROL DAMPER

SHEET METAL SYMBOLOGY

SA	X	SUPPLY AIR
HDS	X	HOT DECK SUPPLY AIR
CDS	X	COLD DECK SUPPLY AIR
RA	/	RETURN AIR
EA	/	EXHAUST AIR
LHEA	/	LAB HOOD EXHAUST AIR
GHEA	/	GENERAL LAB HOOD EXHAUST AIR
OA	/	OUTSIDE AIR
REL	/	RELIEF AIR
MA	/	MIXED AIR

PHASING

- EXISTING - TO REMAIN
- EXISTING - FOR DEMOLITION
- POINT OF DISCONNECTION BETWEEN EXISTING AND DEMOLITION
- POINT OF CONNECTION BETWEEN PROPOSED AND EXISTING

MECHANICAL GENERAL NOTES

1. COMPLY WITH ALL APPLICABLE LOCAL, STATE AND/OR REGULATORY AGENCIES, CODES AND REGULATIONS FOR NEW WORK.
2. DO NOT INSTALL EQUIPMENT, PIPING OR DUCTWORK OVER ANY ELECTRICAL EQUIPMENT OR COMMUNICATION ROOMS.
3. DO NOT RUN ANY PIPING OR DUCTWORK INTO THE ELECTRICAL ROOM UNLESS DEDICATED TO SERVE THAT ROOM.
4. INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.
5. LOCATE THERMOSTAT/TEMPERATURE SENSORS 48" ABOVE FINISHED FLOOR OR AS NOTED ON THE PLANS.
6. WORK IDENTIFIED WITH MECHANICAL AND ELECTRICAL NOTES AND KEY NOTES SHALL BE PERFORMED BY QUALIFIED MECHANICAL AND ELECTRICAL CONTRACTORS RESPECTIVELY UNDER DIRECTION OF THE CONSTRUCTION MANAGER. COORDINATE WITH OWNER'S REPRESENTATIVE OR CONSTRUCTION MANAGER.
7. INSTALL SMOKE DETECTOR IN DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
8. VERIFY ALL CONDITIONS IN FIELD BEFORE START OF CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS.
9. COORDINATE WORK WITH OTHER TRADES AND WITH THE CONSTRUCTION MANAGER.
10. COORDINATE ANY REQUIRED SHUTDOWN OF SERVICES OR EQUIPMENT WITH OWNER'S REPRESENTATIVE OR CONSTRUCTION MANAGER, MINIMIZE INTERRUPTION OF EXISTING SERVICES.
11. PROVIDE ALL MISCELLANEOUS STEEL AND ITEMS REQUIRED FOR THE PROPER INSTALLATION OF ALL PIPE, SHEET METAL AND EQUIPMENT.
12. COORDINATE FLOOR, WALL & ROOF PENETRATIONS ETC. WITH ARCHITECTURAL TRADES. PROVIDE TEMPORARY WATER TIGHT SEAL FOR ALL EXTERIOR WALL AND ROOF PENETRATION AS NECESSARY.
13. FIRESTOP SHALL BE PROVIDED IN HOLES AND PENETRATIONS IN RATED ASSEMBLIES.

SHEET METAL NOTES

1. THE INSTALLATION OF ALL DUCTWORK SHALL BE CLOSELY COORDINATED WITH NEW PLUMBING, ELECTRICAL, AND STRUCTURAL CONDITIONS. NOT ALL REQUIRED OFFSETS AND FITTINGS ARE INDICATED ON DRAWINGS, BUT SHALL BE PROVIDED. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR CLEARANCES. ALTERNATE DUCT ROUTING SHALL BE APPROVED BY ARCHITECT/ENGINEER BEFORE PROCEEDING IN ORDER TO ENSURE THAT THE AVAILABLE STATIC PRESSURE REMAINS ADEQUATE. DUCTWORK LOCATION SHALL TAKE PRECEDENCE OVER HVAC AND FIRE PROTECTION PIPING AND ELECTRICAL CONDUIT AND CABLE TRAY.
2. REFER TO DUCT TAKEOFF DETAILS. SPIN-IN TYPE WITH SCOOPS SHALL NOT BE ACCEPTED. A MINIMUM OF 2 FEET SHALL BE PROVIDED BETWEEN RUNOUT TAKEOFFS FROM TRUNK DUCTS.
3. THERMOSTAT AND SENSORS LOCATIONS WITHIN DUCTWORK SHALL BE VERIFIED WITH ARCHITECT/ ENGINEER BEFORE ROUGH -IN.
4. RUNOUT BALANCING DAMPERS SHALL BE MOUNTED AS CLOSE TO MAIN DUCT AS POSSIBLE.
5. DUCTWORK LAYOUT HAS BEEN DESIGNED TO ABSORB NOISE. ALL FITTINGS SHALL BE PROVIDED AS INDICATED.
6. TERMINAL UNITS SHALL BE MOUNTED TO NOT IMPAIR ACCESS TO FILTERS, COILS AND CONTROLS.
7. WATERTIGHT CONCRETE CURBS SHALL BE PROVIDED AROUND ELEVATED FLOOR SLAB PENETRATIONS.
8. DUCTWORK AND ASSOCIATED COMPONENTS SHALL CLEAR DOORS AND WINDOWS.
9. UNLESS OTHERWISE NOTED, ALL DUCTWORK ABOVE CEILING OR EXPOSED IS OVERHEAD AND AS HIGH AS POSSIBLE TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION WHERE REQUIRED.
10. LOCATE MECHANICAL EQUIPMENT SUCH THAT THERE IS UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS AND VALVING.
11. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO MECHANICAL EQUIPMENT THAT REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE NOTED.
12. DUCTWORK SIZES ARE INSIDE CLEAR DIMENSIONS.
13. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS UNLESS OTHERWISE NOTED. RADIUS ELBOWS SHALL HAVE CENTERLINE RADIUS OF CURVATURE 1.5 TIMES THE DUCT DIAMETER OR WIDTH IN THE PLANE OF TURN. WHERE SQUARE ELBOWS ARE SHOWN, INSTALL TURNING VANES.
14. DUCTS CONNECTED TO EQUIPMENT SHALL EQUAL EQUIPMENT CONNECTION SIZE UNLESS NOTED OTHERWISE.
15. MAXIMUM LENGTH ON FLEXIBLE DUCT SHALL BE 5'-0", UNLESS OTHERWISE NOTED ON DETAILS OR SPECIFICATION.
16. REFER TO ARCH REFLECTED CEILING PLANS FOR EXACT DIFFUSER LOCATIONS IN AREAS WITH A CEILING.

MECHANICAL DESIGN CRITERIA

APPLICABLE CODES:
- MICHIGAN BUILDING CODE 2021
- MICHIGAN MECHANICAL CODE 2021
- MICHIGAN PLUMBING CODE 2021
- MICHIGAN COMMERCIAL ENERGY CODE 2021
- 2015 INTERNATIONAL FUEL GAS CODE

DESIGN CONDITIONS:
- LOCATION: MT. PLEASANT, MI
- CLIMATE ZONE: 5A
- BASED ON 2021 ASHRAE CLIMATIC DESIGN CONDITIONS FOR GRAND RAPIDS AIRPORT (GRR), 1% COOLING, 99% HEATING
- HEATING DESIGN DAY: 6.8°F db
- COOLING DESIGN DAY: 86.7°F db, 71.7°F wb
- INDOOR CONDITIONS:
  - OCCUPIED SPACES
    - COOLING: 75°F, 50%RH
    - HEATING: 70°F
  - UNOCCUPIED SPACES
    - COOLING: 80°F, 40% TO 60%RH
    - HEATING: 60°F

NOTES:
- ALL SPACES ARE TO BE HEATED FOR FREEZE PROTECTION. NO WINTERIZATION OF PLUMBING SYSTEMS IS PLANNED.
- MECHANICAL VENTILATION PER IMC CHAPTER 4.

MECHANICAL SHEET INDEX

NUMBER	DESCRIPTION
M001	GENERAL MECHANICAL INFORMATION
MD101	FIRST AND SECOND FLOOR MECHANICAL DEMOLITION PLAN
MD102	THIRD FLOOR AND ROOF MECHANICAL DEMOLITION PLAN
M101	FIRST FLOOR MECHANICAL PLAN
M102	SECOND FLOOR MECHANICAL PLAN
M103	THIRD FLOOR MECHANICAL PLAN
M104	ROOF MECHANICAL PLAN
M401	ENLARGED MECHANICAL PLAN
M501	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
M701	MECHANICAL CONTROLS
M702	MECHANICAL CONTROLS

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10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
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PROFESSIONAL
T. FREY
DRAWN BY
B. GARCIA
CHECKED BY
M. GROSE

GENERAL MECHANICAL INFORMATION
M001

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BY: BGARCIA
SHEET: M001 - GENERAL MECHANICAL INFORMATION
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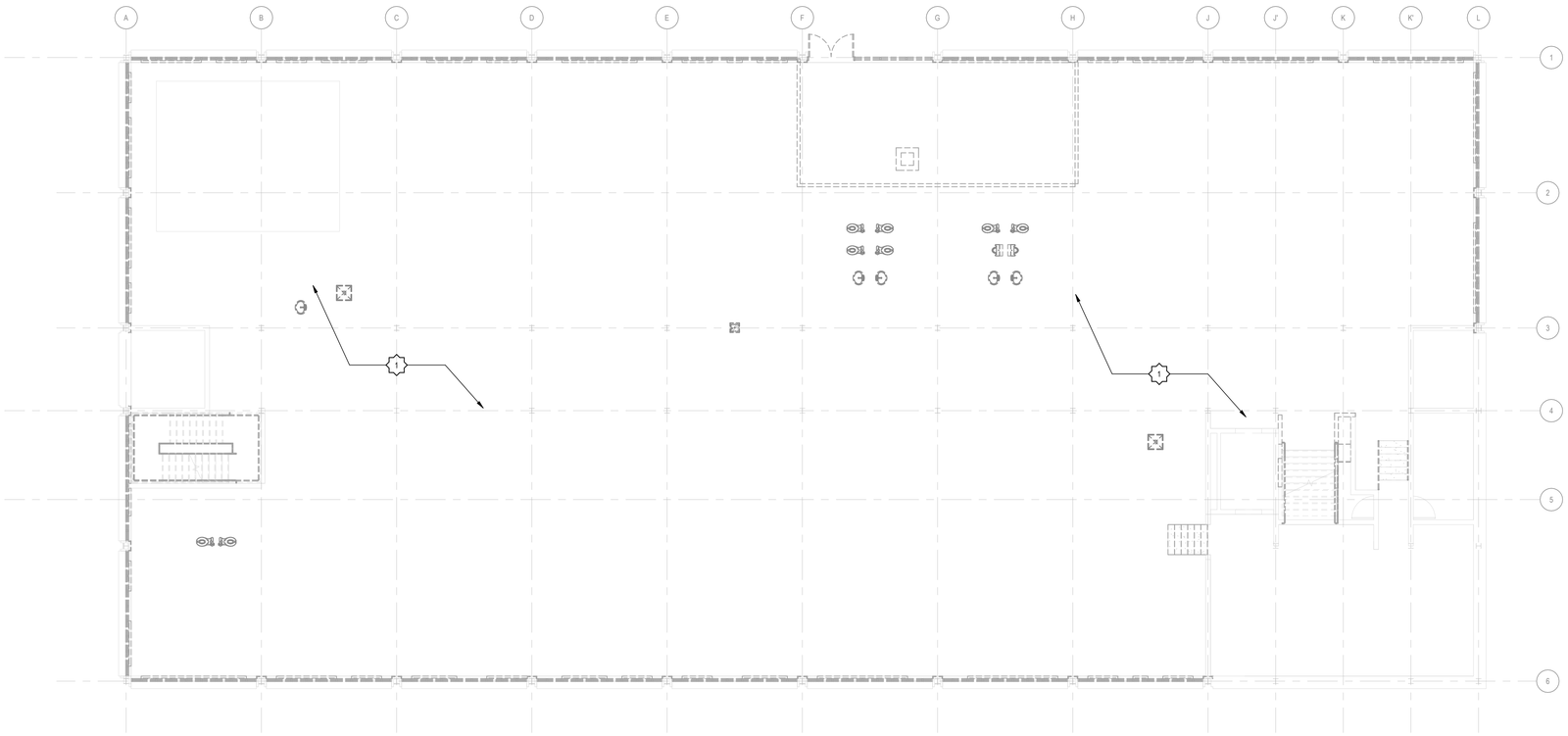
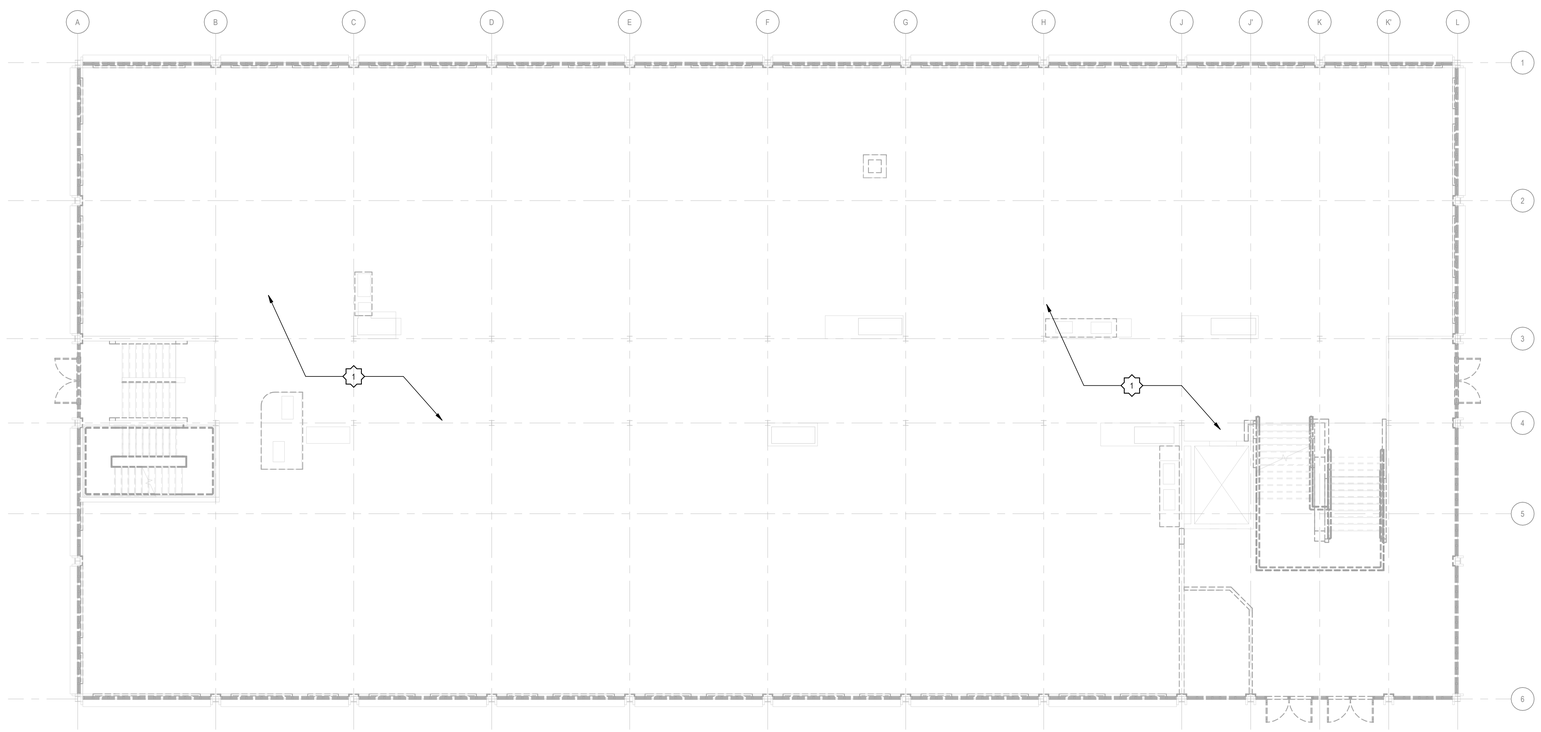


FIRST FLOOR MECHANICAL DEMOLITION PLAN

1/8" = 1'-0"



SECOND FLOOR MECHANICAL DEMOLITION PLAN

1/8" = 1'-0"

MECHANICAL DEMOLITION KEYNOTES

1. DISCONNECT AND REMOVE EXISTING PERIMETER MECHANICAL HEATING EQUIPMENT. VERIFY LOCATION IN FIELD.
2. PENTHOUSE EQUIPMENT, DUCTWORK AND ACCESSORIES TO BE DEMOLISHED. COORDINATED EXISTING PENETRATION PATCHWORK WITH NEW CONSTRUCTION.

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FIRST AND SECOND FLOOR MECHANICAL DEMOLITION PLAN

MD101

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RC: MEP01
FILE NAME: FIRST AND SECOND FLOOR MECHANICAL DEMOLITION PLAN

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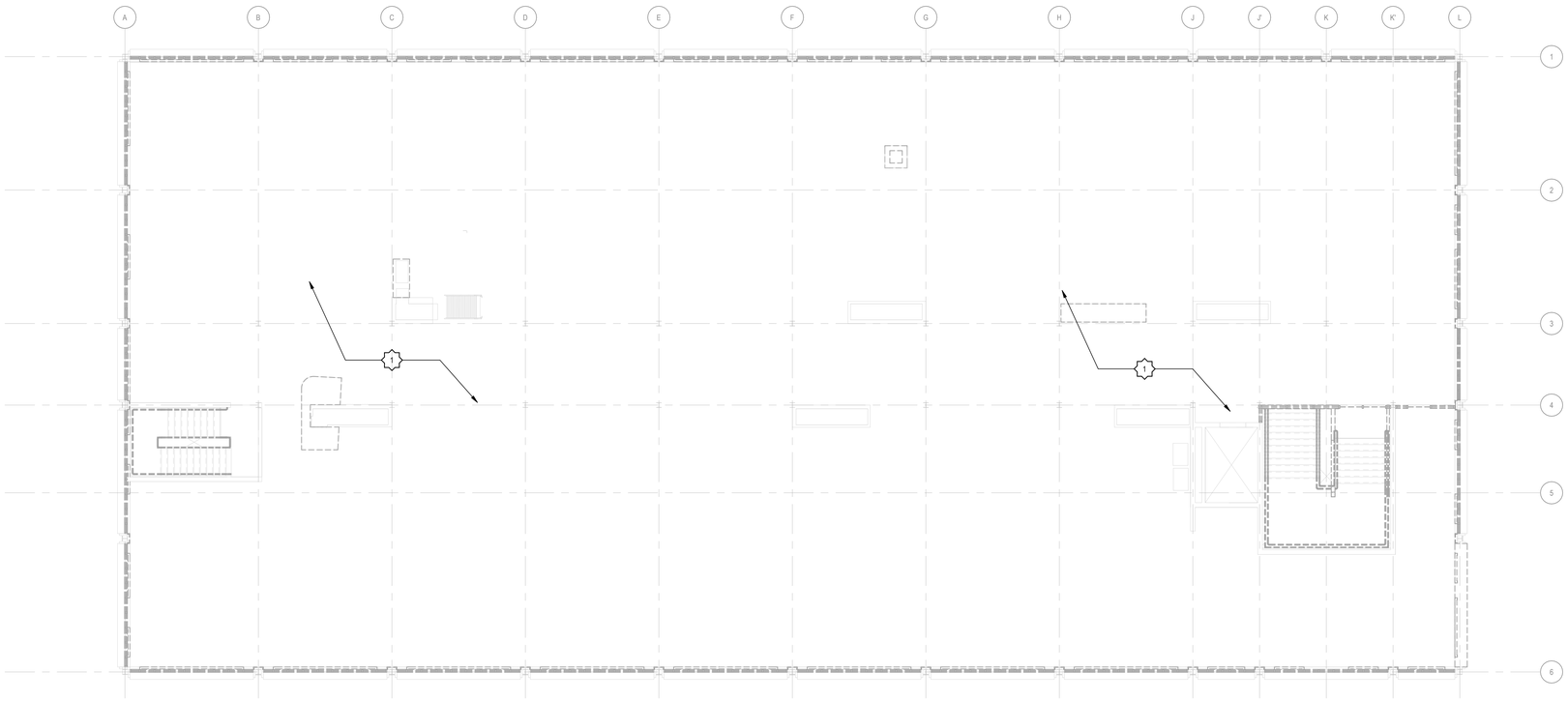
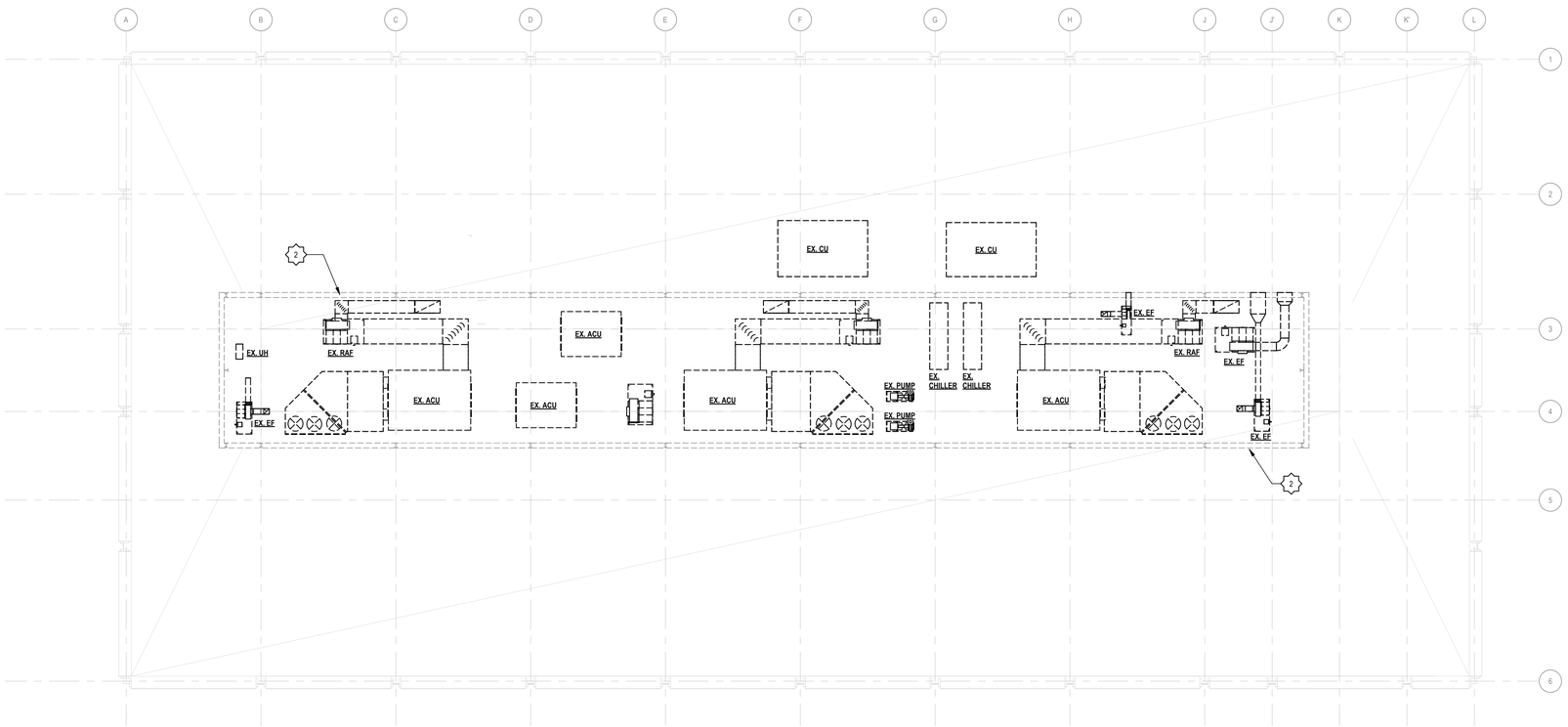


THIRD FLOOR MECHANICAL DEMOLITION PLAN

1/8" = 1'-0"



ROOF LEVEL DEMOLITION PLAN

1/8" = 1'-0"

MECHANICAL DEMOLITION KEYNOTES

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THIRD FLOOR AND ROOF MECHANICAL DEMOLITION PLAN

MD102

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THIRD FLOOR AND ROOF MECHANICAL DEMOLITION PLAN

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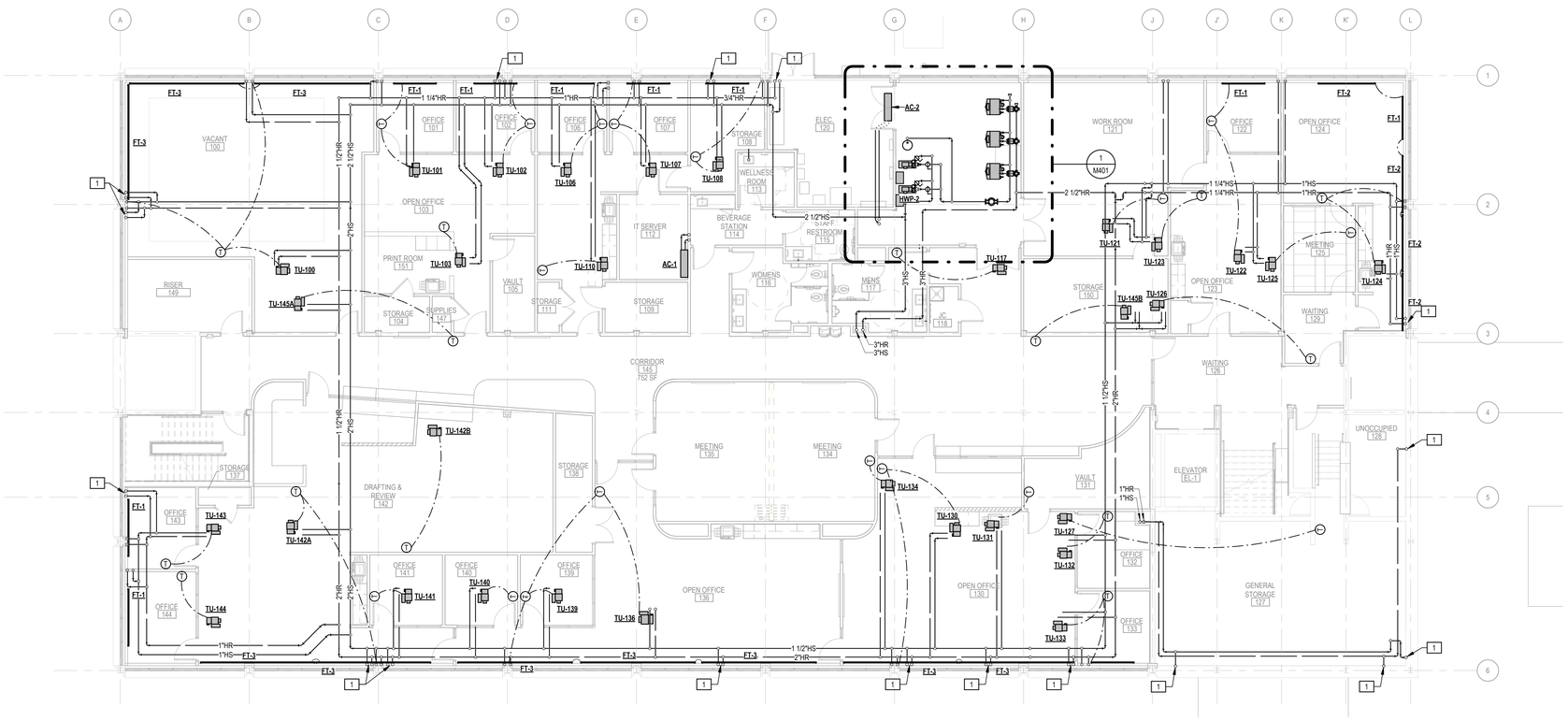
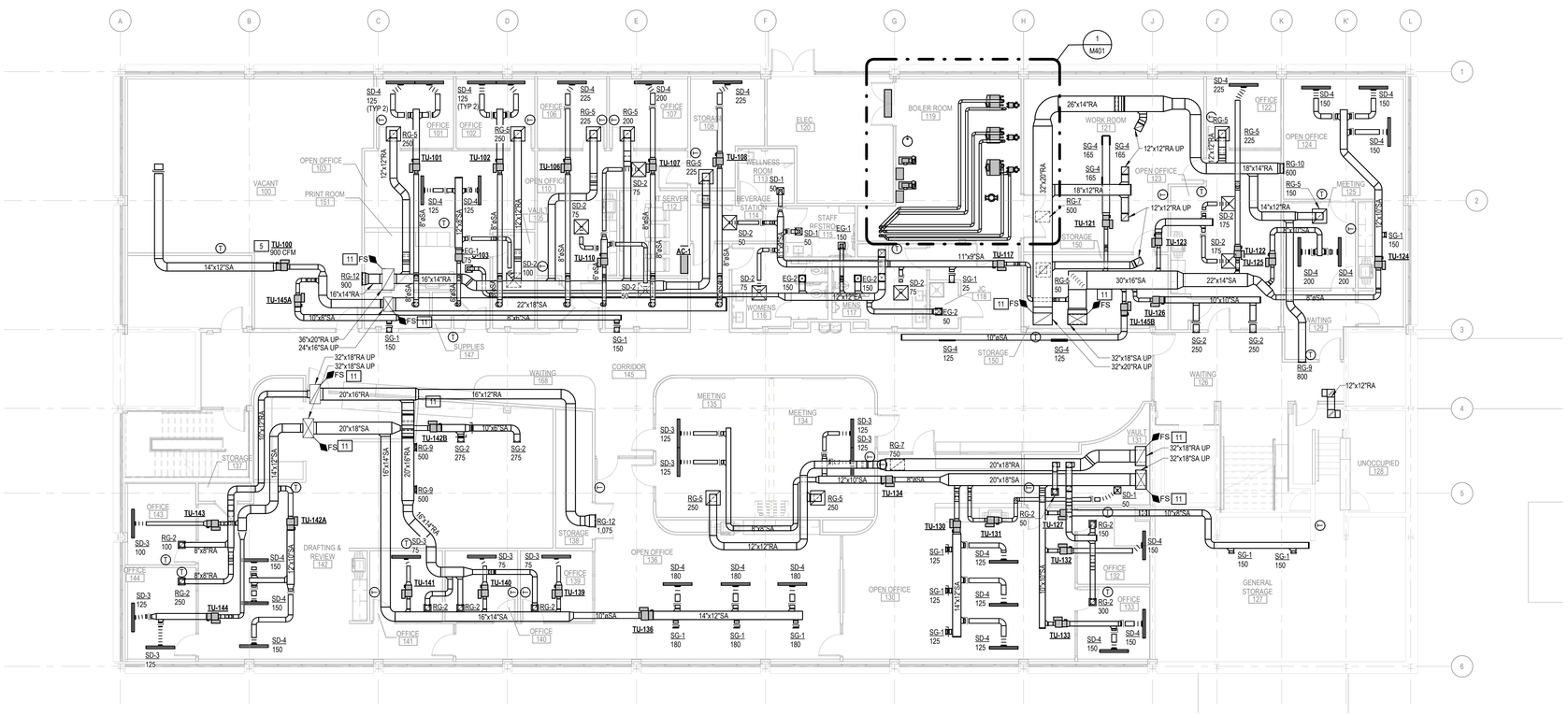


FIRST FLOOR HYDRONIC PLAN

1/8" = 1'-0"



FIRST FLOOR HVAC PLAN

1/8" = 1'-0"

HVAC KEYNOTES

1. 3/4" HYDRONIC SUPPLY AND RETURN PIPING UP TO PERIMETER HEAT ON FLOOR ABOVE.
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FIRST FLOOR MECHANICAL PLAN

M101

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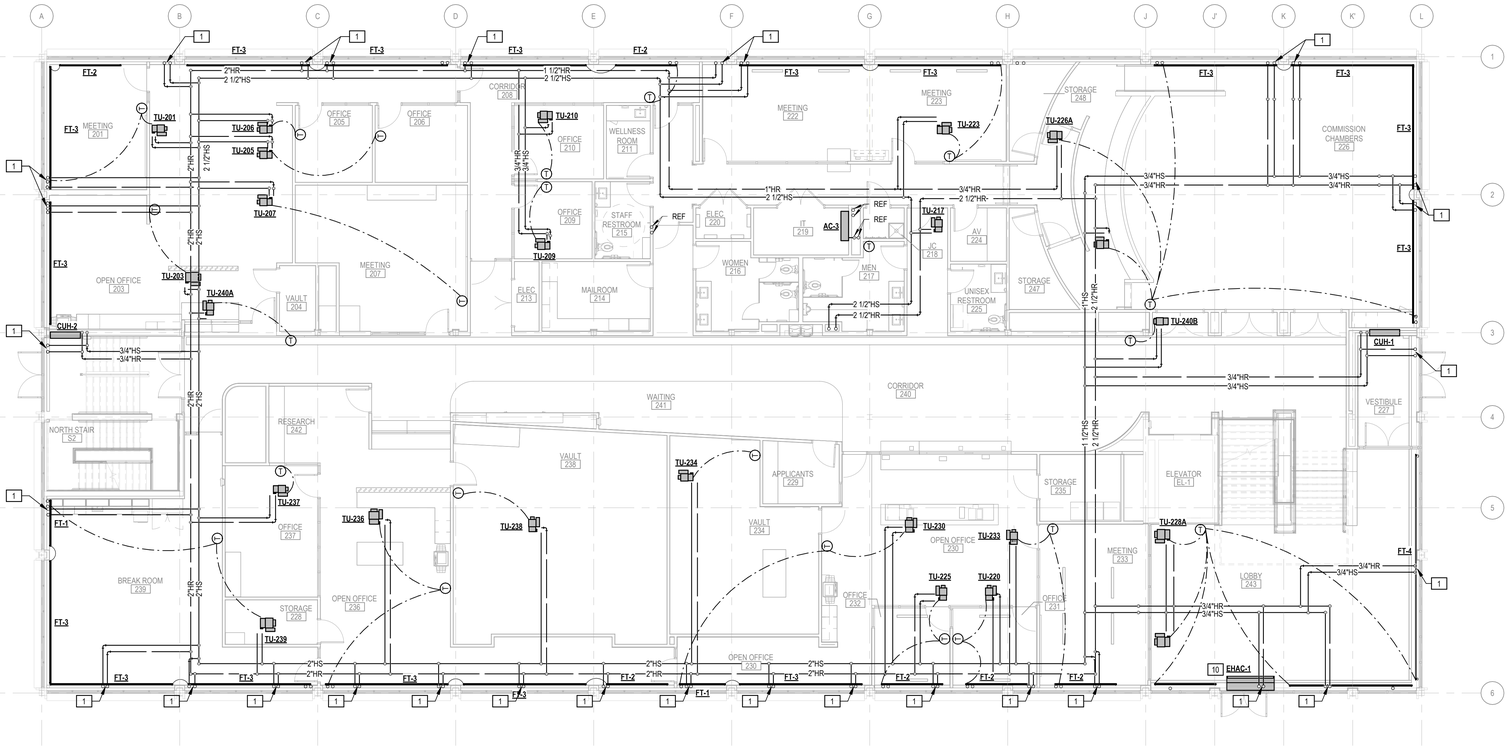
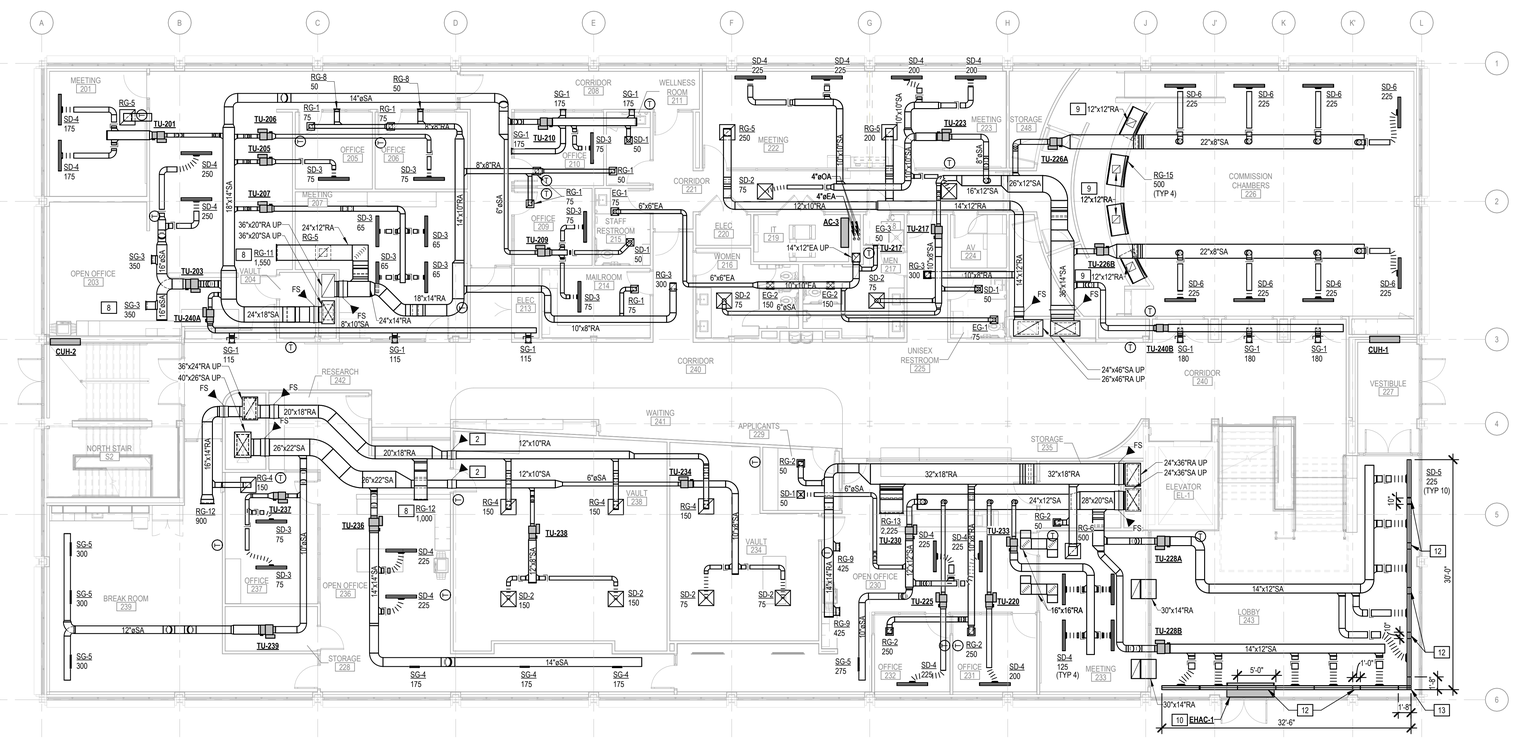


SECOND FLOOR HYDRONIC PLAN

1/8" = 1'-0"



SECOND FLOOR HVAC PLAN

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PROFESSIONAL
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SECOND FLOOR MECHANICAL PLAN

M102

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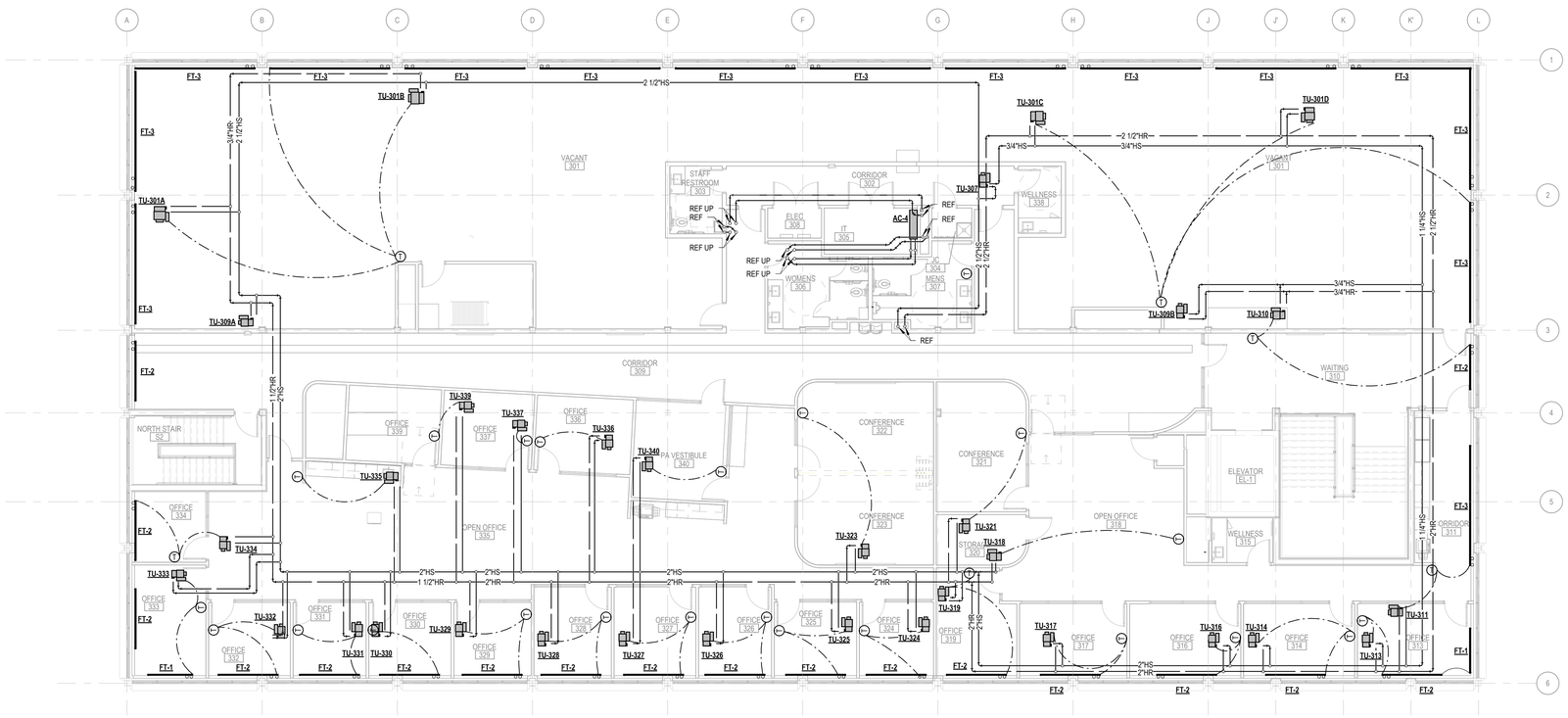
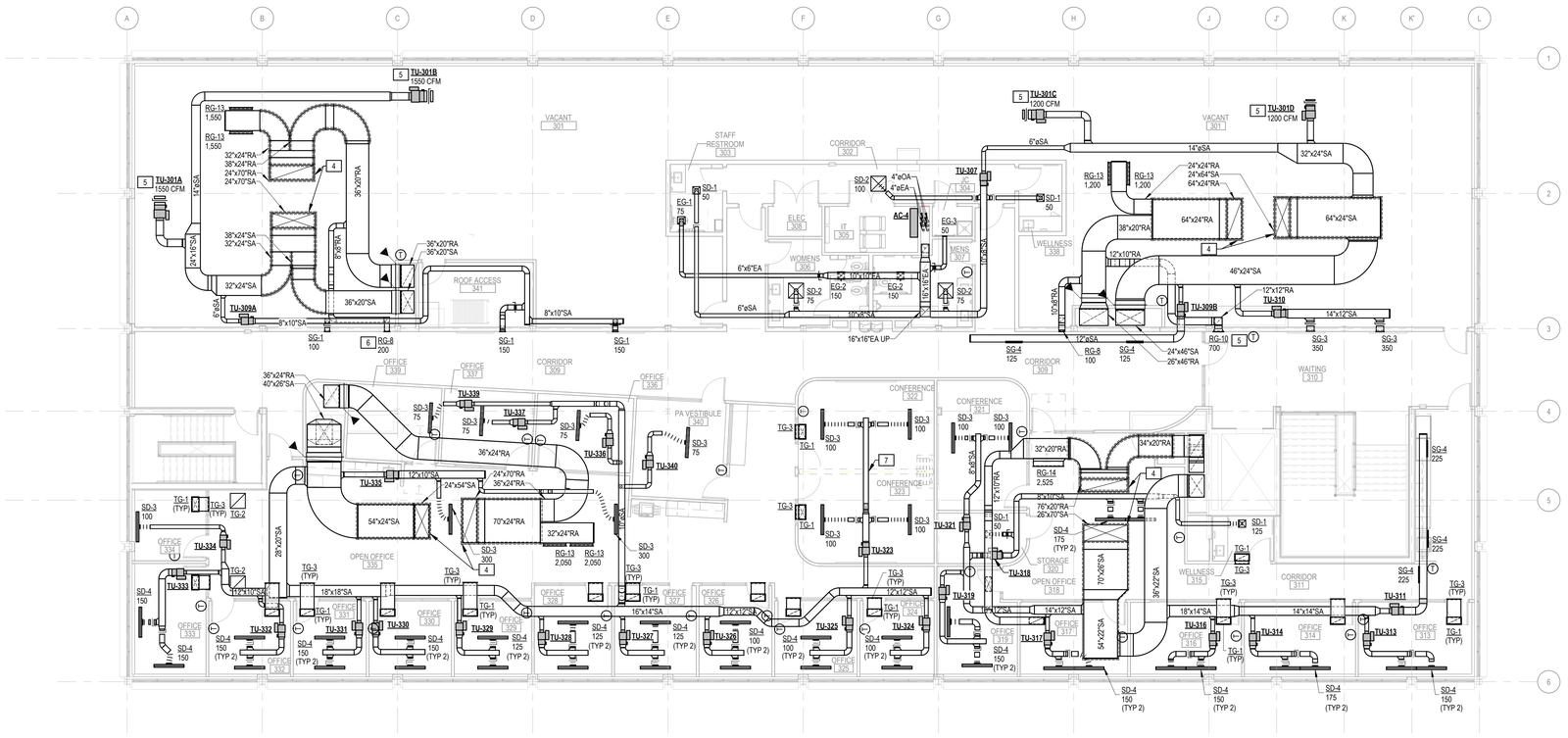


THIRD FLOOR HYDRONIC PLAN

1/8" = 1'-0"



THIRD FLOOR HVAC PLAN

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PROFESSIONAL
T. FREY

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THIRD FLOOR MECHANICAL PLAN

M103

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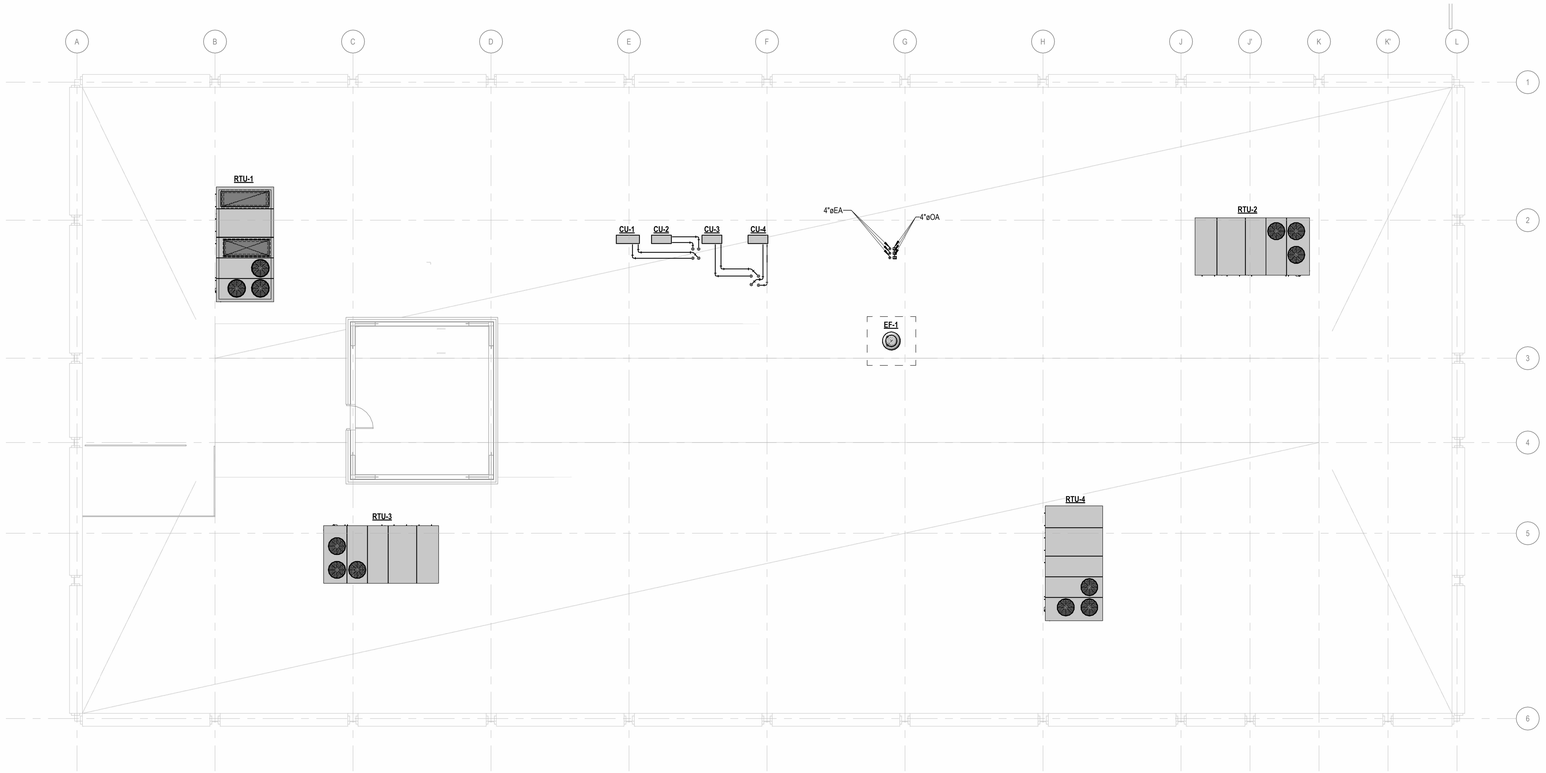

ROOF MECHANICAL PLAN
1/8" = 1'-0"

PROGRESSIVE AE, INC.
PROGRESSIVE COMPANIES
Charlotte, NC | Detroit, MI | Grand Rapids, MI
weareprogressive.com

ISABELLA COUNTY
ADMINISTRATION BUILDING INTERIOR RENOVATION
200 N. MAIN STREET
MT. PLEASANT, MI 48858

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
T. FREY
DRAWN BY
B. GARCIA
CHECKED BY
M. GROSE

ROOF MECHANICAL PLAN
M104

10/13/2026 12:47:37 PM Autodesk Docs://23000001 - Isabella County Admin Building/23000001-ICAB-MEP.rvt
ID: M104
ROOF MECHANICAL PLAN

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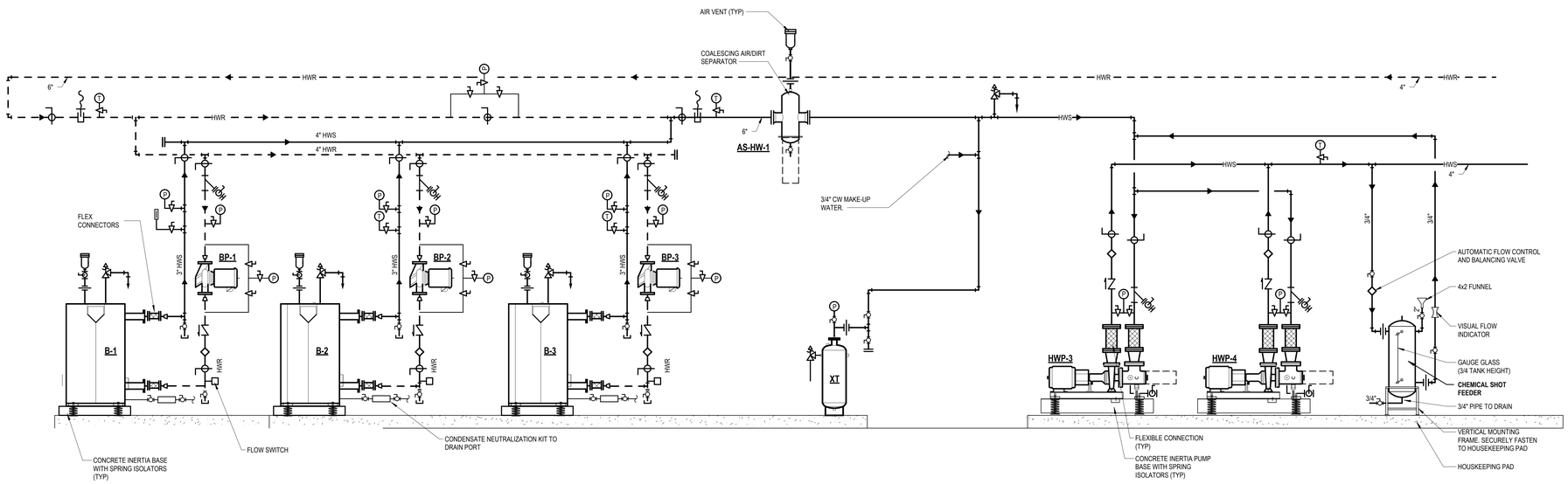
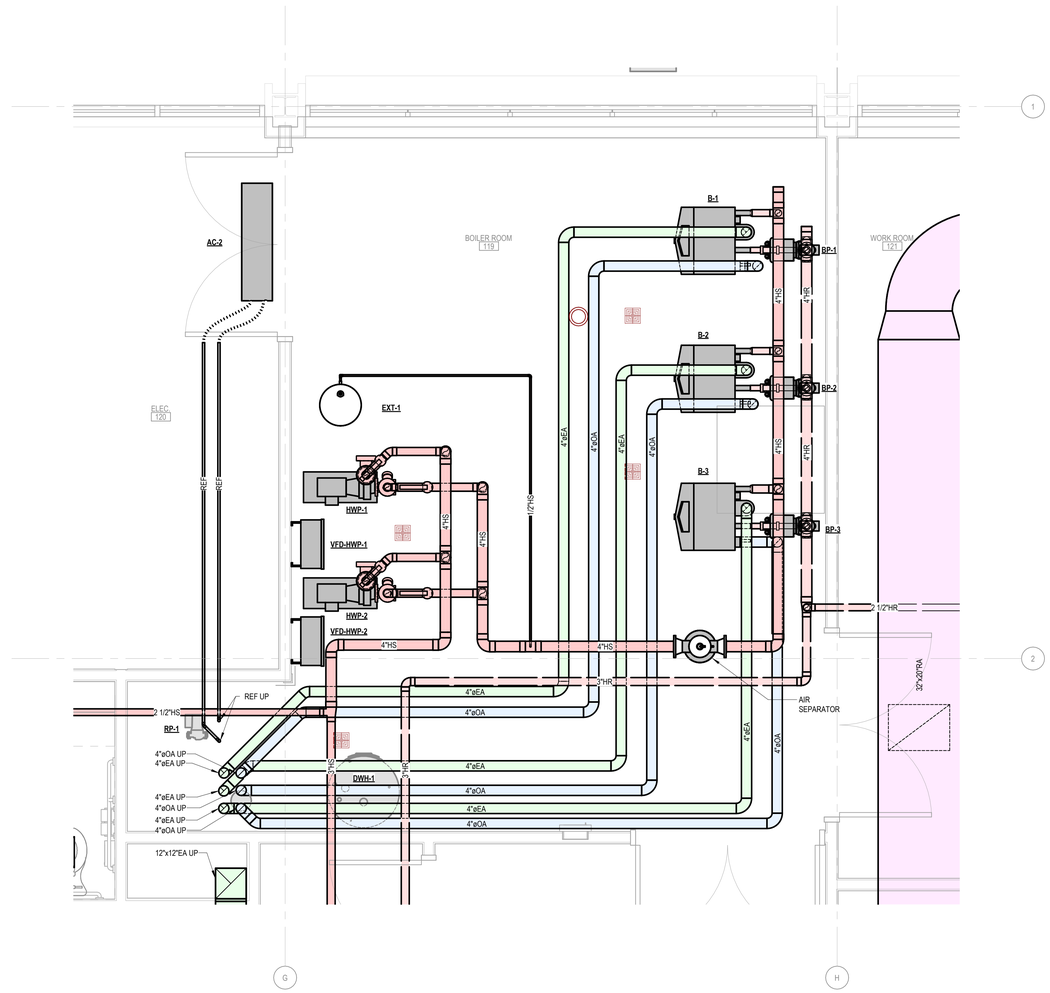


A1 HEATING WATER DIAGRAM

NOT TO SCALE



ENLARGED FIRST FLOOR BOILER ROOM PLAN

1/2" = 1'-0"

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B. GARCIA
CHECKED BY
M. GROSE

ENLARGED MECHANICAL PLAN
M401

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BA - M401
Building MECHANICAL PLAN

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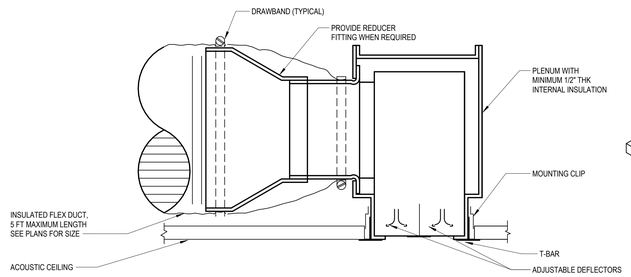
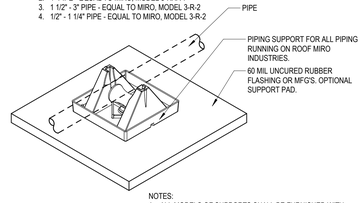


B7 LINEAR SLOT DIFFUSER CONNECTION DETAIL
NOT TO SCALE

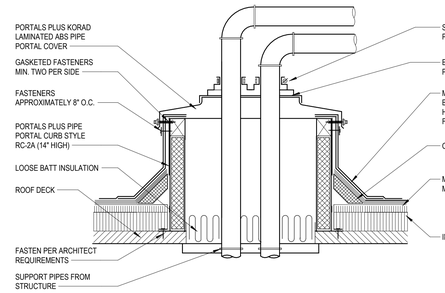
SUPPORT SCHEDULE

1. 6" PIPE - EQUAL TO MIRO, MODEL 6-RHA-12
2. 4" PIPE - EQUAL TO MIRO, MODEL 5-RHA-7
3. 1 1/2" - 3" PIPE - EQUAL TO MIRO, MODEL 3-R-2
4. 1/2" - 1 1/4" PIPE - EQUAL TO MIRO, MODEL 3-R-2



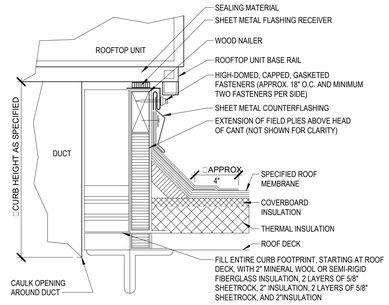
NOTES:
1. ALL MODELS OF SUPPORTS SHALL BE FURNISHED WITH THE OPTIONAL STRAPS OVER THE PIPE AND BOLTED TO SUPPORT. ALL METAL SHALL BE OF STAINLESS STEEL CONSTRUCTION.
2. SUPPORTS SHALL BE FURNISHED AS THE MANUFACTURERS STANDARD. ADJUST HEIGHT AS REQUIRED FOR SITE CONDITIONS.

B5 PIPE ON ROOF DETAIL
NOT TO SCALE

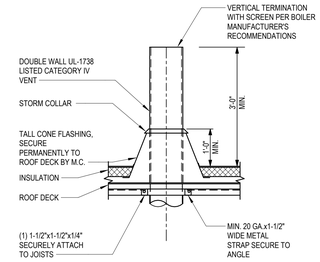


B4 PIPE THROUGH ROOF DETAIL
NOT TO SCALE

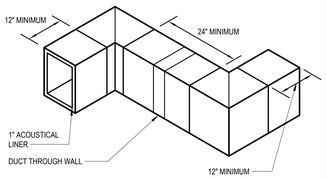
NOTE:
1. CUT METAL DECKING TO ALLOW CURB INSTALLATION ON STEEL FRAMING. AFTER CURB IS SET IN PLACE, TRIM REMAINING METAL DECKING AND INSTALL WITHIN CURB. TACK WELD DECKING TO SUPPORT STEEL. DO NOT WELD INTERIOR DECKING TO ROOF CURB. PROVIDE ADDITIONAL CROSS FRAMING TO SUPPORT INTERIOR DECKING AND FILL MATERIAL AS REQUIRED.



B2 ROOF CURB DETAIL
NOT TO SCALE

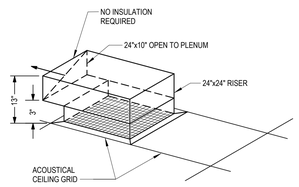


A1 FLUE DETAIL
NOT TO SCALE

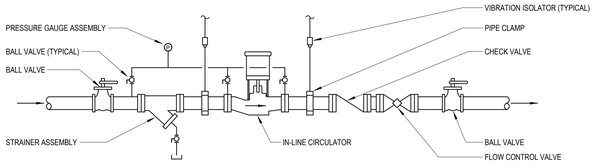


NOTE:
SIZE OF TRANSFER DUCT SHOWN ON PLAN INDICATES ACTUAL CLEAR INSIDED DIMENSIONS. SIZES OF TRANSFER DUCTS VARY.

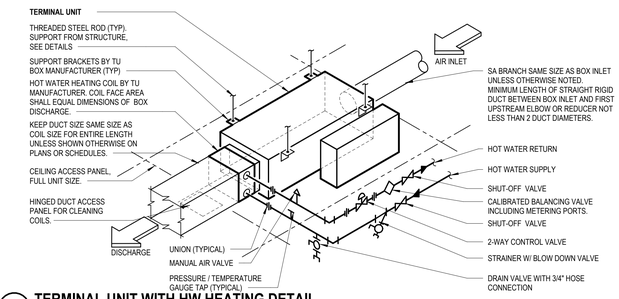
B1 LINED TRANSFER DUCT DETAIL
NOT TO SCALE



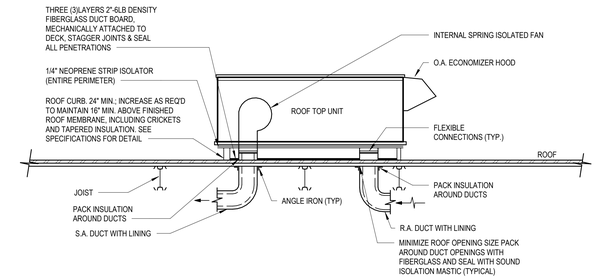
C7 RETURN AIR TO PLENUM DETAIL
NOT TO SCALE



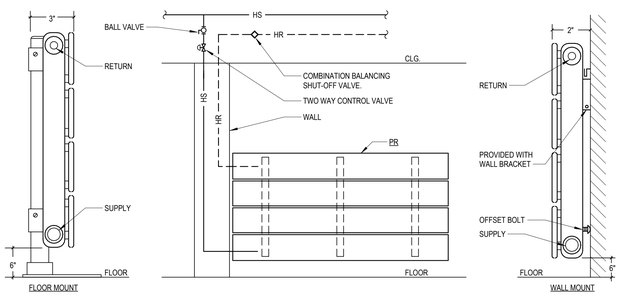
C5 HYDRONIC IN-LINE PUMP PIPING DETAIL
NOT TO SCALE



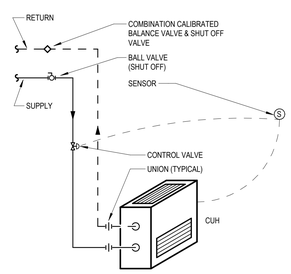
C4 TERMINAL UNIT WITH HW HEATING DETAIL
NOT TO SCALE



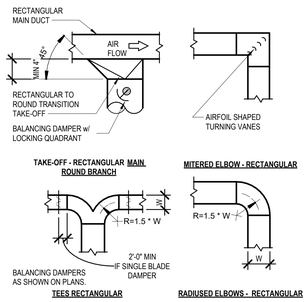
C2 RTU INSTALLATION DETAIL
NOT TO SCALE



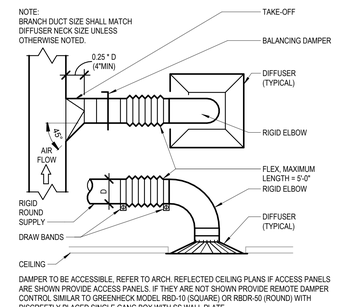
D6 PERIMETER RADIATION DETAIL
NOT TO SCALE



D5 CABINET UNIT HEATER PIPING DETAIL
NOT TO SCALE

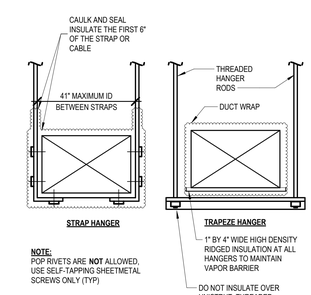


D4 RECTANGULAR DUCT FITTINGS DETAIL
NOT TO SCALE



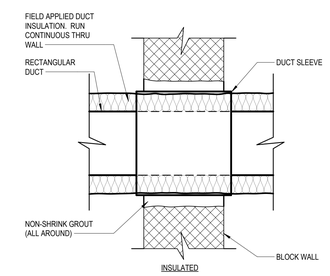
DAMPER TO BE ACCESSIBLE, REFER TO ARCH. REFLECTED CEILING PLANS IF ACCESS PANELS ARE SHOWN PROVIDE ACCESS PANELS. IF THEY ARE NOT SHOWN PROVIDE REMOTE DAMPER CONTROL SIMILAR TO GREENHECK MODEL RBD-10 (SQUARE) OR RBDR-50 (ROUND) WITH DISCREETLY PLACED SINGLE GANG BOX WITH SS WALL PLATE.

D3 DUCT TAKEOFF DETAIL
NOT TO SCALE

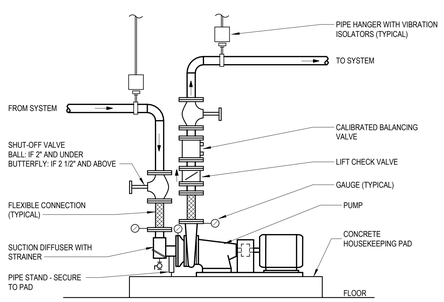


NOTE:
POP RIVETS ARE **NOT** ALLOWED, USE SELF-TAPPING SHEETMETAL SCREWS ONLY (TYP)

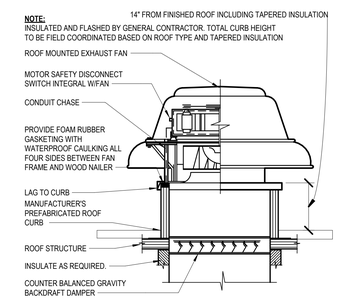
D2 DUCT SUPPORT DETAIL
NOT TO SCALE



D1 RECTANGULAR DUCT WALL PENETRATION
NOT TO SCALE

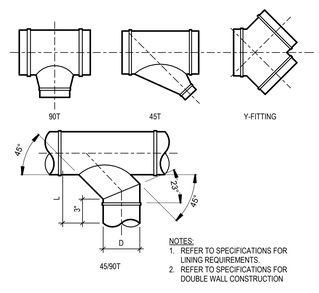


E6 BASE MOUNTED PUMP DETAIL
NOT TO SCALE



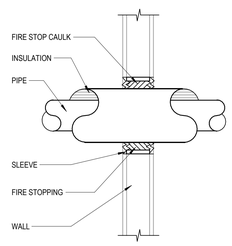
NOTE:
INSULATED AND FLASHED BY GENERAL CONTRACTOR. TOTAL CURB HEIGHT TO BE FIELD COORDINATED BASED ON ROOF TYPE AND TAPERED INSULATION

E5 ROOF MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE

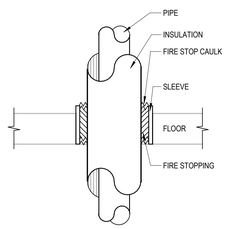


NOTES:
1. REFER TO SPECIFICATIONS FOR LINING REQUIREMENTS.
2. REFER TO SPECIFICATIONS FOR DOUBLE WALL CONSTRUCTION

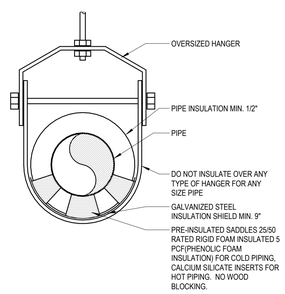
E4 SPIRAL DUCT FITTINGS DETAIL
NOT TO SCALE



E3 PIPE WALL PENETRATION DETAIL
NOT TO SCALE



E2 PIPE FLOOR PENETRATION DETAIL
NOT TO SCALE



E1 PIPE HANGER DETAIL
NOT TO SCALE

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MECHANICAL DETAILS
M501

24.2.002
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BE - M501
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ROOF TOP UNIT SCHEDULE

					SUPPLY AIR BLOWER						DX COOLING COIL								HEATING MODULE					ELECTRICAL									
MARK	MANUFACTURER	MODEL	LOCATION	OA CFM	CFM	ESP (IN. WC)	TSP (IN. WC)	FAN RPM	MOTOR HP	QUAN. OF FANS	EDB	EWB	LDB	LWB	FACE VELOCITY (FPM)	TOTAL MBH	SENS. MBH	# OF COMPR.	OUTPUT BTUH	INPUT BTUH	EDB	TEMP. RISE	# OF STAGES	VOLTS	PHASE	HZ	MCA	MOP	DISCONNECT	DISC. BY	STARTER	WEIGHT	REMARKS
RTU-1	TRANE	YCD330D4M	ROOF	2225	9275	1	2.18	681	10	1	80 °F	66 °F	56 °F	55 °F	293	336	253	3	284,000	350,000	53 °F	28 °F		460 V	3	60 Hz	83 A	100 A	Yes	FACTORY			
RTU-2	TRANE	YCD330D4M	ROOF	2750	10575	1	2.49	732	10	1	80 °F	66 °F	58 °F	56 °F	334	344	274	3	284,000	350,000	51 °F	25 °F		460 V	3	60 Hz	83 A	100 A	Yes	FACTORY			
RTU-3	TRANE	YCD330D4M	ROOF	2075	9725	1	2.29	700	10	1	80 °F	67 °F	58 °F	56 °F	342	382	275	3	284,000	350,000	55 °F	27 °F		460 V	3	60 Hz	85 A	100 A	Yes	FACTORY			
RTU-4	TRANE	YCD330D4M	ROOF	2000	10025	1	2.36	710	10	1	80 °F	65 °F	56 °F	55 °F	316	337	261	3	284,000	350,000	56 °F	26 °F		460 V	3	60 Hz	83 A	100 A	Yes	FACTORY			

NOTES:
1. PROVIDE FACTORY-INSTALLED LOW-LEAK DRY-BULB ECONOMIZER WITH OUTDOOR AIR HOOD, BAROMETRIC RELIEF, AND ECONOMIZER CONTROLS.
2. PROVIDE FACTORY-INSTALLED MODULATING HOT-GAS REHEAT.
3. PROVIDE FACTORY-INSTALLED REFRIGERANT DETECTION SYSTEM FOR R-454B REFRIGERANT.
4. PROVIDE FACTORY-INSTALLED CIRCUIT BREAKER/DISCONNECT AND SINGLE-POINT POWER CONNECTION.
5. PROVIDE 4-INCH MERV 14 THROWAWAY FILTERS.
6. RTU-1 THROUGH RTU-4 SHALL INCLUDE FACTORY-INSTALLED SUPPLY FAN VFD FOR VAV DUCT STATIC PRESSURE CONTROL.
7. RTU-1 THROUGH RTU-4 SHALL INCLUDE FACTORY-INSTALLED 100% POWER EXHAUST.
8. PROVIDE FACTORY-INSTALLED PACKAGED CONTROLS WITH BACNET COMMUNICATIONS FOR BMS INTEGRATION.

TERMINAL UNIT WITH HOT WATER HEAT SCHEDULE

				AIRFLOW		HEATING COIL									
MARK	MANUFACTURER	MODEL	INLET Ø"	MAX CFM	MIN CFM	TYPE	GPM	CAPACITY (BTUH)	EAT [°F]	LAT [°F]	EWT[°F]	LWT[°F]	ROWS	MAX WPD (FT-H2O)	REMARKS
TU-100	TRANE	VCWF	8"	900	595	HYDRONIC	2.75	27,500	55	98	160	140	2	0.04	
TU-101	TRANE	VCWF	6"	250	165	HYDRONIC	0.75	7,500	55	97	160	140	1	0.04	
TU-102	TRANE	VCWF	6"	250	165	HYDRONIC	0.75	7,500	55	97	160	140	1	0.04	
TU-103	TRANE	VCWF	6"	275	185	HYDRONIC	0.75	7,500	55	92	160	140	1	0.04	
TU-106	TRANE	VCWF	6"	225	150	HYDRONIC	0.75	7,500	55	101	160	140	1	0.04	
TU-107	TRANE	VCWF	6"	200	135	HYDRONIC	0.75	7,500	55	106	160	140	1	0.04	
TU-108	TRANE	VCWF	6"	225	150	HYDRONIC	0.75	7,500	55	101	160	140	1	0.04	
TU-110	TRANE	VCWF	6"	175	120	HYDRONIC	0.75	7,500	55	113	160	140	1	0.04	
TU-117	TRANE	VCWF	6"	175	120	HYDRONIC	0.75	7,500	55	113	160	140	1	0.04	
TU-121	TRANE	VCWF	6"	500	330	HYDRONIC	2	20,000	55	111	160	140	2	0.04	
TU-122	TRANE	VCWF	6"	225	150	HYDRONIC	0.75	7,500	55	101	160	140	1	0.04	
TU-123	TRANE	VCWF	6"	350	235	HYDRONIC	1.5	15,000	55	114	160	140	2	0.04	
TU-124	TRANE	VCWF	8"	600	400	HYDRONIC	2.25	22,500	55	107	160	140	2	0.04	
TU-125	TRANE	VCWF	6"	400	265	HYDRONIC	1.75	17,500	55	116	160	140	2	0.04	
TU-126	TRANE	VCWF	6"	500	330	HYDRONIC	2	20,000	55	111	160	140	2	0.04	
TU-127	TRANE	VCWF	6"	300	200	HYDRONIC	0.75	7,500	55	90	160	140	1	0.04	
TU-130	TRANE	VCWF	8"	775	515	HYDRONIC	2.5	25,000	55	100	160	140	2	0.04	
TU-131	TRANE	VCWF	6"	150	100	HYDRONIC	0.75	7,500	55	124	160	140	1	0.04	
TU-132	TRANE	VCWF	6"	150	100	HYDRONIC	0.75	7,500	55	124	160	140	1	0.04	
TU-133	TRANE	VCWF	6"	275	185	HYDRONIC	0.75	7,500	55	92	160	140	1	0.04	
TU-134	TRANE	VCWF	8"	500	330	HYDRONIC	2	20,000	55	111	160	140	2	0.04	
TU-136	TRANE	VCWF	10"	1175	780	HYDRONIC	4	40,000	55	102	160	140	2	0.04	
TU-139	TRANE	VCWF	6"	75	50	HYDRONIC	0.5	5,000	55	147	160	140	1	0.04	
TU-140	TRANE	VCWF	6"	75	50	HYDRONIC	0.5	5,000	55	147	160	140	1	0.04	
TU-141	TRANE	VCWF	6"	75	50	HYDRONIC	0.5	5,000	55	147	160	140	1	0.04	
TU-142A	TRANE	VCWF	8"	500	330	HYDRONIC	2	20,000	55	111	160	140	2	0.04	
TU-142B	TRANE	VCWF	8"	525	350	HYDRONIC	2	20,000	55	108	160	140	2	0.04	
TU-143	TRANE	VCWF	6"	100	70	HYDRONIC	0.5	5,000	55	121	160	140	1	0.04	
TU-144	TRANE	VCWF	6"	250	165	HYDRONIC	0.75	7,500	55	97	160	140	1	0.04	
TU-145A	TRANE	VCWF	6"	350	235	HYDRONIC	1.5	15,000	55	114	160	140	2	0.04	
TU-145B	TRANE	VCWF	6"	350	235	HYDRONIC	1.5	15,000	55	114	160	140	2	0.04	
TU-201	TRANE	VCWF	6"	375	250	HYDRONIC	1.5	15,000	55	110	160	140	2	0.04	
TU-203	TRANE	VCWF	10"	1125	745	HYDRONIC	4	40,000	55	104	160	140	2	0.04	
TU-205	TRANE	VCWF	6"	75	50	HYDRONIC	0.5	5,000	55	147	160	140	1	0.04	
TU-206	TRANE	VCWF	6"	75	50	HYDRONIC	0.5	5,000	55	147	160	140	1	0.04	
TU-207	TRANE	VCWF	6"	250	165	HYDRONIC	0.75	7,500	55	97	160	140	1	0.04	
TU-209	TRANE	VCWF	6"	200	135	HYDRONIC	0.75	7,500	55	106	160	140	2	0.04	
TU-210	TRANE	VCWF	8"	200	135	HYDRONIC	0.75	7,500	55	106	160	140	1	0.04	
TU-217	TRANE	VCWF	6"	500	330	HYDRONIC	2	20,000	55	111	160	140	2	0.04	
TU-220	TRANE	VCWF	6"	200	135	HYDRONIC	0.75	7,500	55	106	160	140	1	0.04	
TU-223	TRANE	VCWF	8"	450	300	HYDRONIC	2.5	25,000	55	132	160	140	2	0.04	
TU-225	TRANE	VCWF	6"	225	150	HYDRONIC	0.75	7,500	55	101	160	140	1	0.04	
TU-226A	TRANE	VCWF	8"	900	595	HYDRONIC	2.75	27,500	55	98	160	140	2	0.04	
TU-226B	TRANE	VCWF	8"	900	595	HYDRONIC	2.75	27,500	55	98	160	140	2	0.04	
TU-228A	TRANE	VCWF	10"	1125	745	HYDRONIC	4	40,000	55	104	160	140	2	0.04	
TU-228B	TRANE	VCWF	10"	1125	745	HYDRONIC	4	40,000	55	104	160	140	2	0.04	
TU-230	TRANE	VCWF	8"	725	480	HYDRONIC	2.5	25,000	55	103	160	140	2	0.04	
TU-233	TRANE	VCWF	6"	500	330	HYDRONIC	2	20,000	55	111	160	140	2	0.04	
TU-234	TRANE	VCWF	6"	275	185	HYDRONIC	0.75	7,500	55	92	160	140	1	0.04	
TU-236	TRANE	VCWF	10"	1000	660	HYDRONIC	3.75	37,500	55	107	160	140	2	0.04	
TU-237	TRANE	VCWF	6"	150	100	HYDRONIC	0.75	7,500	55	124	160	140	1	0.04	
TU-238	TRANE	VCWF	6"	150	100	HYDRONIC	0.75	7,500	55	124	160	140	1	0.04	
TU-239	TRANE	VCWF	10"	1200	795	HYDRONIC	4.25	42,500	55	104	160	140	2	0.04	
TU-240A	TRANE	VCWF	6"	325	215	HYDRONIC	1.5	15,000	55	119	160	140	2	0.04	
TU-240B	TRANE	VCWF	8"	550	365	HYDRONIC	2	20,000	55	106	160	140	2	0.04	
TU-301A	TRANE	VCWF	12"	1550	1025	HYDRONIC	5.5	55,000	55	104	160	140	2	0.04	
TU-301B	TRANE	VCWF	12"	1550	1025	HYDRONIC	5.5	55,000	55	104	160	140	2	0.04	
TU-301C	TRANE	VCWF	10"	1200	795	HYDRONIC	4.25	42,500	55	104	160	140	2	0.04	
TU-301D	TRANE	VCWF	10"	1200	795	HYDRONIC	4.25	42,500	55	104	160	140	2	0.04	
TU-307	TRANE	VCWF	6"	425	285	HYDRONIC	1.75	17,500	55	112	160	140	2	0.04	
TU-309A	TRANE	VCWF	6"	400	265	HYDRONIC	1.75	17,500	55	116	160	140	2	0.04	
TU-309B	TRANE	VCWF	6"	250	165	HYDRONIC	1	10,000	55	111	160	140	1	0.04	
TU-310	TRANE	VCWF	8"	775	515	HYDRONIC	2.5	25,000	55	100	160	140	2	0.04	
TU-311	TRANE	VCWF	8"	775	515	HYDRONIC	2.5	25,000	55	100	160	140	2	0.04	
TU-313	TRANE	VCWF	6"	300	200	HYDRONIC	1	10,000	55	101	160	140	2	0.04	
TU-314	TRANE	VCWF	6"	375	250	HYDRONIC	1.5	15,000	55	110	160	140	2	0.04	
TU-316	TRANE	VCWF	6"	300	200	HYDRONIC	0.75	7,500	55	90	160	140	1	0.04	
TU-317	TRANE	VCWF	6"	300	200	HYDRONIC	0.75	7,500	55	90	160	140	1	0.04	
TU-318	TRANE	VCWF	8"	600	400	HYDRONIC	1.5	15,000	55	90	160	140	2	0.04	
TU-319	TRANE	VCWF	6"	325	215	HYDRONIC	2.25	22,500	55	151	160	140	2	0.04	
TU-321	TRANE	VCWF	6"	200	135	HYDRONIC	1.5	15,000	55	157	160	140	1	0.04	
TU-323	TRANE	VCWF	6"	400	265	HYDRONIC	0.75	7,500	55	81	160	140	2	0.04	
TU-324	TRANE	VCWF	6"	250	165	HYDRONIC	1.75	17,500	55	153	160	140	1	0.04	
TU-325	TRANE	VCWF	6"	225	150	HYDRONIC	0.75	7,500	55	101	160	140	1	0.04	
TU-326	TRANE	VCWF	6"	250	165	HYDRONIC	0.75	7,500	55	97	160	140	1	0.04	
TU-327	TRANE	VCWF	6"	225	150	HYDRONIC	0.75	7,500	55	101	160	140	1	0.04	
TU-328	TRANE	VCWF	6"	250	165	HYDRONIC	0.75	7,500	55	97	160	140	1	0.04	
TU-329	TRANE	VCWF	6"	250	165	HYDRONIC	0.75	7,500	55	97	160	140	1	0.04	
TU-330	TRANE	VCWF	6"	275	185	HYDRONIC	0.75	7,500	55	92	160	140	1	0.04	
TU-331	TRANE	VCWF	6"	300	200	HYDRONIC	0.75	7,500	55	90	160	140	1	0.04	
TU-332	TRANE	VCWF	6"	300	200	HYDRONIC	0.75	7,500	55	90	160	140	1	0.04	
TU-333	TRANE	VCWF	6"	300	200	HYDRONIC	1	10,000	55	101	160	140	2	0.04	
TU-334	TRANE	VCWF	6"	100	70	HYDRONIC	0.5	5,000	55	121	160	140	1	0.04	
TU-335	TRANE	VCWF	8"	600	400	HYDRONIC	2.25	22,500	55	107	160	140	2	0.04	
TU-336	TRANE	VCWF	6"	75	50	HYDRONIC	0.5	5,000	55	147	160	140	1	0.04	
TU-337	TRANE	VCWF	6"	75	50	HYDRONIC	0.5	5,000	55	147	160	140	1	0.04	
TU-339	TRANE	VCWF	6"	75	50	HYDRONIC	0.5	5,000	55	147	160	140	1	0.04	
TU-340	TRANE	VCWF	6"	75	50	HYDRONIC	0.5	5,000	55	147	160	140	1	0.04	
							139.25								

NOTES:
1. BOX SHALL BE PROVIDED WITH FACTORY INSTALLED 1" FOIL-FACED INSULATION.
2. PROVIDE FACTORY MOUNTED CONTROLLER CAPABLE OF INTEGRATION WITH BACNET-IP BMS.
3. PROVIDE PRESSURE INDEPENDENT AIRFLOW CONTROL VALVE.
4. PROVIDE MULTI-POINT FLOW SENSOR FOR AIRFLOW MEASUREMENT..

AIR CURTAIN SCHEDULE

							ELECTRICAL			
MARK	MANUFACTURER	MODEL	MOUNTING HEIGHT	CABINET WIDTH	CFM	HEAT LOAD (KW)	V	PH	HZ	REMARKS
EHAC-1	BERNER INTERNATIONAL	AI10-F-2072E	9'-0"	74	2706	28	480	3	60	1-6

NOTES:
1. PROVIDE MANUFACTURER ELECTRICAL DISCONNECT SWITCH.
2. PROVIDE ELECTRIC-HEATED AIR CURTAIN WITH WALL-MOUNTING RAIL AND REQUIRED MOUNTING HARDWARE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DOOR DETAILS.
3. PROVIDE MAGNETIC DOOR SWITCH FOR AUTOMATIC ACTIVATION; ONE SWITCH PER OPERABLE DOOR LEAF.
4. PROVIDE INTEGRAL INTELLISWITCH CONTROLLER WITH TEMPERATURE SENSOR AND CLEAR SATIN ANODIZED ALUMINUM FINISH.
5. PROVIDE SEPARATE 120V, SINGLE-PHASE CIRCUIT FOR AIR CURTAIN MOTORS AND CONTROLS, IN ADDITION TO THE 480V, THREE-PHASE ELECTRIC HEATER CIRCUIT. COORDINATE WITH ELECTRICAL.
6. PROVIDE FACTORY BERNER AIR BMS SMART CONTROL PACKAGE WITH BACNET-IP CAPABILITY FOR BMS INTEGRATION.

LINEAR DIFFUSER AND NECK SIZE SCHEDULE

CFM RANGE	LINEAR DIFFUSERS			
	LAY-IN CEILING		HARD LID CEILING	
	SLOTS	NECK	SLOTS	NECK
0 - 125	2-SLOT	6" ⌀	2-SLOT	6" ⌀
126 - 225	2-SLOT	8" ⌀	2-SLOT	8" ⌀
226 - 300	4-SLOT	10" ⌀	4-SLOT	10" ⌀
301 - 400	4-SLOT	12" ⌀	4-SLOT	12" ⌀
401 - 500	4-SLOT	14" ⌀	5-SLOT	14" ⌀

1. PROVIDE RIGID RUN-OUT DUCT OF SAME SIZE AS DIFFUSER NECK DIAMETER.
2. INCREASE RUN-OUT DUCT SIZE BY ONE FULL SIZE WHEN LENGTH OF RUN-OUT DUCT FROM MAIN SUPPLY DUCT EXCEEDS 20'-0" PROVIDE TRANSITION AT THE DIFFUSER.

DIFFUSER NECK SIZE SCHEDULE

CFM RANGE	MINIMUM NECK SIZE
0 - 125	6" ⌀
126 - 225	8" ⌀
226 - 300	10" ⌀
301 - 400	12" ⌀
401 - 500	14" ⌀

1. PROVIDE RIGID RUN-OUT DUCT OF SAME SIZE AS DIFFUSER NECK DIAMETER.
2. INCREASE RUN-OUT DUCT SIZE BY ONE FULL SIZE WHEN LENGTH OF RUN-OUT DUCT FROM MAIN SUPPLY DUCT EXCEEDS 20'-0". PROVIDE TRANSITION AT THE DIFFUSER.

DIFFUSER, REGISTER, & GRILLE SCHEDULE

			CFM RANGE		NECK SIZE			FACE SIZE							
MARK	MANUFACTURER	MODEL	MIN FLOW	MAX FLOW	Ø"	L"	W"	L"	W"	MOUNTING	PATTERN	MATERIAL	DAMPER	COLOR	REMARKS
EG-1	PRICE	85	0	125		6"	6"	12"	12"	LAY-IN	EGGCRATE	STEEL	No	WHITE	
EG-2	PRICE	85	126	225		9"	9"	12"	12"	LAY-IN	EGGCRATE	STEEL	No	WHITE	
EG-3	PRICE	500	0	50		6"	6"	8"	8"	SIDEWALL	EGGCRATE	STEEL	No	WHITE	
RG-1	PRICE	85	0	75		6"	6"	12"	12"	LAY-IN	EGGCRATE	STEEL	No	WHITE	
RG-2	PRICE	85	76	175		8"	8"	12"	12"	LAY-IN	EGGCRATE	STEEL	No	WHITE	
RG-3	PRICE	85	176	300		10"	10"	12"	12"	LAY-IN	EGGCRATE	STEEL	No	WHITE	
RG-4	PRICE	85	0	150		8"	8"	24"	24"	LAY-IN	EGGCRATE	STEEL	No	WHITE	
RG-5	PRICE	85	151	250		12"	12"	24"	24"	LAY-IN	EGGCRATE	STEEL	No	WHITE	
RG-6	PRICE	85	251	500		14"	14"	24"	24"	LAY-IN	EGGCRATE	STEEL	No	WHITE	
RG-7	PRICE	85	501	750		18"	24"	18"	24"	LAY-IN	EGGCRATE	STEEL	No	WHITE	
RG-8	PRICE	500	101	200		8"	8"	10"	10"	SIDEWALL	SINGLE DEFLECTION	STEEL	No	WHITE	
RG-9	PRICE	500	301	500		12"	12"	14"	14"	SIDEWALL	SINGLE DEFLECTION	STEEL	No	WHITE	
RG-10	PRICE	500	200	1000		14"	16"	16"	18"	SIDEWALL	SINGLE DEFLECTION	STEEL	No	WHITE	
RG-11	PRICE	500	200	1550		12"	24"	14"	26"	SIDEWALL	SINGLE DEFLECTION	STEEL	No	WHITE	
RG-12	PRICE	500	200	1075		16"	20"	18"	22"	SIDEWALL	SINGLE DEFLECTION	STEEL	No	WHITE	
RG-13	PRICE	500	1200	2050		18"	36"	20"	38"	SIDEWALL	SINGLE DEFLECTION	STEEL	No	WHITE	
RG-14	PRICE	500	1600	2525		20"	48"	22"	50"	SIDEWALL	SINGLE DEFLECTION	STEEL	No	WHITE	
RG-15	PRICE	LBM-15A	300	500		48"	4"	50"	6"	SIDEWALL	SINGLE DEFLECTION	STEEL	No	WHITE	
SD	TITUS	MLR	0	0	7"			6"	<varies>						
SD-1	PRICE	SPD	0	50	6"			12"	12"	LAY-IN	4-WAY	STEEL	No	WHITE	
SD-2	PRICE	SPD	0	175	6"			24"	24"	LAY-IN	4-WAY	STEEL	No	WHITE	
SD-3	PRICE	SDS75	0	125	6"			4"	48"	LAY-IN	2-SLOT	STEEL	No	WHITE	
SD-4	PRICE	SDS75	125	225	8"			4"	48"	LAY-IN	2-SLOT	STEEL	No	WHITE	
SD-5	TITUS	MLR			7"			6"	60"						
SD-6	PRICE	SDS75	125	225	8"			4"	48"	LAY-IN	2-SLOT	STEEL	No	WHITE	2
SG-1	PRICE	500	0	225		6"	8"	8"	10"	SIDEWALL	DOUBLE DEFLECTION	STEEL	Yes	WHITE	
SG-2	PRICE	500	251	275		6"	10"	8"	12"	SIDEWALL	DOUBLE DEFLECTION	STEEL	Yes	WHITE	
SG-3	PRICE	500	276	350		8"	12"	10"	14"	SIDEWALL	DOUBLE DEFLECTION	STEEL	Yes	WHITE	
SG-4	PRICE	SDG	0	275		4"	12"	5"	15"	DUCT	DOUBLE DEFLECTION	STEEL	Yes	WHITE	
SG-5	PRICE	SDG	0	300		4"	18"	5"	21"	DUCT	DOUBLE DEFLECTION	STEEL	Yes	WHITE	
TG-1	PRICE	85	0	250		10"	22"	12"	24"	LAY-IN	EGGCRATE	STEEL	No	WHITE	
TG-2	PRICE	85	0	250		22"	22"	24"	24"	LAY-IN	EGGCRATE	STEEL	No	WHITE	
TG-3	PRICE	85	0	250		10"	22"	12"	24"	SIDEWALL	SINGLE DEFLECTION	STEEL	No	WHITE	

NOTES:
1. COORDINATE MOUNTING TYPE WITH ARCHITECTURAL CEILING PLANS.
2. PROVIDE REMOTE CABLE ACTUATOR FOR BALANCING DAMPERS LOCATED ABOVE HARD-LID CEILING.
3. COORDINATE COLOR SELECTION WITH ARCHITECTURAL FINISHES.

FAN SCHEDULE

										BACKDRAFT DAMPER	ELECTRICAL					
MARK	LOCATION	SERVICE	MANUFACTURER	MODEL	TYPE	AIRFLOW (CFM)	ESP	SONE	FAN RPM	REQUIRED	HP	V	PH	HZ	FLA	REMARKS
EF-1	ROOF	RESTROOM EXHAUST	GREENHECK	G-130-VG	EXHAUST	1,500	1.02	13.4	1638	Yes	0.75	115	1	60	10	1,2

NOTES:
1. MANUFACTURER TO PROVIDE ELECTRICAL DISCONNECT SWITCH.
2. PROVIDE 14" CURB HEIGHT.

GAS BOILER SCHEDULE

						BTUH					GAS	ELECTRICAL			
MARK	LOCATION	MANUFACTURER	MODEL	TYPE	FLUE SIZE (INCHES)	IN	OUT	AFUE(%)	EWT (°F)	LWT (°F)	CONNECTION	V	PH	HZ	REMARKS
B-1	BOILER ROOM 119	Lochinvar	FTX600	CONDENSING FIRE TUBE	4"	600,000	585,000	97	140 °F	160 °F	1'-0"	120	1	60	1-4
B-2	BOILER ROOM 119	Lochinvar	FTX600	CONDENSING FIRE TUBE	4"	600,000	585,000	97	140 °F	160 °F	1'-0"	120	1	60	1-4
B-3	BOILER ROOM 119	Lochinvar	FTX600	CONDENSING FIRE TUBE	4"	600,000	585,000	97	140 °F	160 °F	1'-0"	120	1	60	1-4

NOTES:
1. PROVIDE FACTORY INSTALLED SMART SYSTEM CONTROL.
2. PROVIDE OUTDOOR AIR RESET CONTROL.
3. PROVIDE LOW WATER CUTOFF WITH MANUAL RESET.
4. PROVIDE CONDENSATE TRAP AND CONDENSATE NEUTRALIZER.

PUMP SCHEDULE

						TOTAL HEAD (FT-H2O)	MOTOR				
MARK	MANUFACTURER	PUMP TYPE	PUMP SERIES	MODEL	FLOW (GPM)		HP	V	PH	HZ	REMARKS
BP-1	BELL & GOSSETT	INLINE	ECOCIRC XL	65-130	60	21	1	208	1	60	1
BP-2	BELL & GOSSETT	INLINE	ECOCIRC XL	65-130	60	21	1	208	1	60	1
BP-3	BELL & GOSSETT	INLINE	ECOCIRC XL	65-130	60	21	1	208	1	60	1
HWP-1	BELL & GOSSETT	BASE-MOUNTED	E-1532	2BD	110	60	5	208	3	60	1-4
HWP-2	BELL & GOSSETT	BASE-MOUNTED	E-1532	2BD	110	60	5	208	3	60	1-4

NOTES:
1. PROVIDE ELECTRICAL DISCONNECT SWITCH.
2. PROVIDE EACH PUMP WITH A DANFOSS FC102 VARIABLE FREQUENCY DRIVE, SIZED FOR THE SCHEDULED MOTOR, WITH NEMA 1 ENCLOSURE.
3. INTERFACE VFD WITH BUILDING AUTOMATION SYSTEM FOR START/STOP, SPEED CONTROL, RUN STATUS, AND FAULT INDICATION. REFER TO CONTROL SEQUENCE.
4. PROVIDE MANUFACTURER STARTUP AND SET VFD OPERATING LIMITS TO ACHIEVE SCHEDULED FLOW AND HEAD. VERIFY PERFORMANCE DURING TESTING AND BALANCING

FINNED TUBE SCHEDULE

MARK	MANUFACTURER	MODEL	CAPACITY (BTUH)	ELEMENT LENGTH	EWT	LWT	GPM	REMARKS
FT-1	RUNTAL	UFLT-2	2,466	6'-0"	160 °F	140 °F	0.50	1
FT-2	RUNTAL	UFLT-2	3,288	8'-0"	160 °F	140 °F	0.50	1
FT-3	RUNTAL	UFLT-2	6,576	16'-0"	160 °F	140 °F	0.75	1
FT-4	RUNTAL	R2F-1	13,717	29'-6"	160 °F	140 °F	1.50	1

NOTES:
1. FACTORY PROVIDED END TRIM KIT.

SPLIT SYSTEM AIR CONDITIONING UNIT

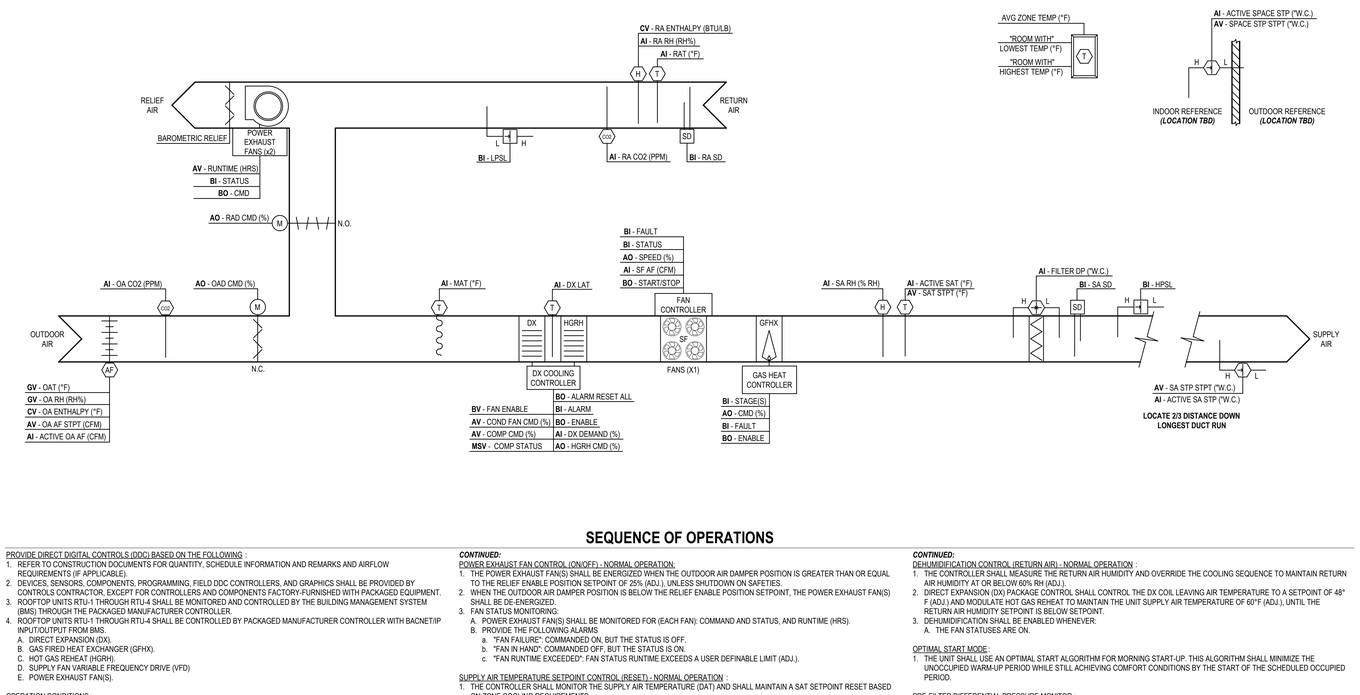
						ELECTRICAL			DIMENSIONS (IN)					
MARK	MANUFACTURER	MODEL	AIRFLOW (CFM)	COOLING CAPACITY (BTUH)	ELECTRICAL HEAT (KW)	V	PH	FLA	W	L	H	UNIT WEIGHT (LBS)	PAIRED UNIT	REMARKS
AC-1	MITSUBISHI	PKA-AK24NL	775	24,000	2	208	1	20	12"	46"	14"	46	CU-1	1,2
AC-2	MITSUBISHI	PKA-AK24NL	775	24,000	2	208	1	20	12"	46"	14"	46	CU-2	1,2
AC-3	MITSUBISHI	PKA-AK12NL	375	12,000	0.8	208	1	20	12"	46"	14"	28	CU-3	1,2
AC-4	MITSUBISHI	PKA-AK12NL	375	12,000	0.8	208	1	20	12"	46"	14"	28	CU-4	1,2

NOTES:
PROVIDE MANUFACTURER-RECOMMENDED WIRED WALL CONTROLLER.
PROVIDE CONDENSATE DRAIN CONNECTION AND CONDENSATE PUMP.

AIR COOLED CONDENSING UNIT SCHEDULE

						FAN(S)		ELECTRICAL							
MARK	MANUFACTURER	MODEL	LOCATION	SERVICE	CAPACITY TONS	QTY	HP	V	PH	HZ	MOP	RLA	MCA	REFRIGERANT	REMARKS
CU-1	MITSUBISHI	PUY-AH24NL	ROOF	AC-1	2	1	1	208	1	60	37 A	25	22	R-454B	1-3
CU-2	MITSUBISHI	PUY-AH24NL	ROOF	A

CONTROLS DIAGRAM - ROOF TOP UNIT RTU 1-4



SEQUENCE OF OPERATIONS

PROVIDE DIRECT DIGITAL CONTROLS (DDC) BASED ON THE FOLLOWING :
1. REFER TO CONSTRUCTION DOCUMENTS FOR QUANTITY, SCHEDULE INFORMATION AND REMARKS AND AIRFLOW REQUIREMENTS (IF APPLICABLE).
2. DEVICES, SENSORS, COMPONENTS, PROGRAMMING, FIELD DDC CONTROLLERS, AND GRAPHICS SHALL BE PROVIDED BY CONTROLS CONTRACTOR, EXCEPT FOR CONTROLLERS AND COMPONENTS FACTORY-FURNISHED WITH PACKAGED EQUIPMENT.
3. ROOFTOP UNITS RTU-1 THROUGH RTU-4 SHALL BE MONITORED AND CONTROLLED BY THE BUILDING MANAGEMENT SYSTEM (BMS) THROUGH THE PACKAGED MANUFACTURER CONTROLLER.
4. ROOFTOP UNITS RTU-1 THROUGH RTU-4 SHALL BE CONTROLLED BY PACKAGED MANUFACTURER CONTROLLER WITH BACNET/IP INPUT/OUTPUT FROM BMS.
   A. DIRECT EXPANSION (DX).
   B. GAS FIRED HEAT EXCHANGER (GFHX).
   C. HOT GAS REHEAT (HGRH).
   D. SUPPLY FAN VARIABLE FREQUENCY DRIVE (VFD)
   E. POWER EXHAUST FAN(S).

OPERATION CONDITIONS :
1. ADJUSTABLE TIME OF DAY (TOD) SCHEDULE, BMS SHALL SEND THE CONTROLLER AN OCCUPIED OR UNOCCUPIED COMMAND, IF COMMUNICATION IS LOST WITH THE BMS, THE CONTROLLER SHALL OPERATE IN THE OCCUPIED MODE.
   A. THE SYSTEM CONTROLLER SHALL BE ENABLED WHENEVER:
      a. ANY ZONE IS OCCUPIED,
      b. OR A DEFINABLE NUMBER OF UNOCCUPIED ZONES ARE REQUESTING HEATING OR COOLING.
   B. OCCUPIED MODE: THE SYSTEM SHALL BE ENABLED CONTINUOUSLY TO MAINTAIN ZONE TEMPERATURE SETPOINTS:
      a. HEATING 70°F / COOLING 75°F (ADJ.).
   C. UNOCCUPIED MODE: THE SYSTEM SHALL BE DISABLED AND ENABLED TO MAINTAIN ZONE TEMPERATURE SETPOINTS:
      a. HEATING MINUS 10°F OF OCCUPIED SETPOINT / COOLING PLUS 5°F OF OCCUPIED SETPOINT.
2. OR MANUAL OVERRIDE FROM BMS GRAPHICS,
3. OR PRIOR TO TOD SCHEDULE, OPTIMIZED START,
4. OR ZONE UNOCCUPIED OVERRIDE.

WHEN SYSTEM IS DISABLED, ACTIONS ARE AS FOLLOWS :
1. OPERATION CONTROL DISABLED,
2. THEN THE SUPPLY FAN AND POWER EXHAUST FAN(S) SHALL BE DE-ENERGIZED,
3. THEN ALL DAMPERS SHALL GO TO NORMALLY OPEN (NO) & NORMALLY CLOSE (NC) POSITIONS.

WHEN SYSTEM IS ENABLED, ACTIONS ARE AS FOLLOWS :
1. THE SUPPLY FAN SHALL BE ENERGIZED BASED ON THE FOLLOWING:
   A. THE RETURN AIR DAMPER SHALL REMAIN OPEN,
   B. THE EXHAUST AND OUTDOOR AIR DAMPERS SHALL REMAIN CLOSED.
2. AFTER TIME DELAY, ENABLE OPERATION CONTROL.

SUPPLY FAN STATIC PRESSURE CONTROL (RESET DAMPER POSITION) - NORMAL OPERATION :
1. THE SUPPLY FAN SHALL RUN ANYTIME THE SYSTEM IS ENABLED, UNLESS SHUTDOWN ON SAFETIES.
   A. TO PREVENT SHORT CYCLING, THE FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.
2. THE PACKAGED MANUFACTURER CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND MODULATE THE FAN SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT. THE BMS SHALL RESET THE DUCT STATIC PRESSURE SETPOINT THROUGH THE PACKAGED MANUFACTURER CONTROLLER BASED UPON THE POSITION OF THE ZONE DAMPERS, WITH A GOAL OF REDUCING THE STATIC PRESSURE UNTIL AT LEAST ONE ZONE DAMPER IS NEARLY WIDE OPEN.
   A. THE INITIAL DUCT STATIC PRESSURE SETPOINT SHALL BE 1.0"W.C. (ADJ.).
   B. AS DAMPER DEMAND INCREASES (95% DAMPER (ADJ.)), THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 2.0"W.C. (ADJ.).
   C. AS DAMPER DEMAND DECREASES (75% DAMPER (ADJ.)), THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 1.00"W.C. (ADJ.).
      a. FINAL SETPOINTS SHALL BE DETERMINED DURING TESTING, ADJUSTING AND BALANCING AND VERIFIED BY COMMISSIONING PROVIDER.
      b. THE SUPPLY FAN SPEED SHALL NOT DROP BELOW THE MANUFACTURER'S MINIMUM ALLOWABLE SPEED (ADJ.).
      c. PROVIDE A SUMMARY PAGE LISTING FOR ALL ASSOCIATED TERMINAL AIR BOXES WITH THE FOLLOWING DATA SHOWN:
         - SPACE TEMPERATURE / SPACE TEMPERATURE SETPOINT.
         - AIRFLOW (CFM) / ACTIVE AIRFLOW SETPOINT.
         - DAMPER POSITION (%).
         - HOT WATER VALVE POSITION (%).
         - DISCHARGE AIR TEMPERATURE (°F).
         - ABLE OVERRIDE TO ENABLE / DISABLE FROM RESET PROGRAM.
3. SUPPLY FAN SHALL BE MONITORED FOR THE FOLLOWING: FAN COMMAND AND STATUS, FAN ENERGY USAGE (kW), FAN SPEED INPUT / OUTPUT (%), FAN RUNTIME (HRS), DUCT STATIC PRESSURE, ACTIVE DUCT STATIC PRESSURE SETPOINT, AND FAN FAILURE ALARM.

CONTINUED:

POWER EXHAUST FAN CONTROL (ON/OFF) - NORMAL OPERATION:
1. THE POWER EXHAUST FAN(S) SHALL BE ENERGIZED WHEN THE OUTDOOR AIR DAMPER POSITION IS GREATER THAN OR EQUAL TO THE RELIEF ENABLE POSITION SETPOINT OF 25% (ADJ.), UNLESS SHUTDOWN ON SAFETIES.
2. WHEN THE OUTDOOR AIR DAMPER POSITION IS BELOW THE RELIEF ENABLE POSITION SETPOINT, THE POWER EXHAUST FAN(S) SHALL BE DE-ENERGIZED.
3. FAN STATUS MONITORING:
   A. POWER EXHAUST FAN(S) SHALL BE MONITORED FOR (EACH FAN): COMMAND AND STATUS, AND RUNTIME (HRS).
   B. PROVIDE THE FOLLOWING ALARMS
      a. "FAN FAILURE": COMMANDED ON, BUT THE STATUS IS OFF.
      b. "FAN IN HAND": COMMANDED OFF, BUT THE STATUS IS ON.
      c. "FAN RUNTIME EXCEEDED": FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

SUPPLY AIR TEMPERATURE SETPOINT CONTROL (RESET) - NORMAL OPERATION :
1. THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE (DAT) AND SHALL MAINTAIN A SAT SETPOINT RESET BASED ON ZONE COOLING REQUIREMENTS.
2. THE SAT SETPOINT SHALL BE RESET BASED ON ZONE COOLING REQUIREMENTS AS FOLLOWS:
   A. THE INITIAL SAT SETPOINT SHALL BE 55°F (ADJ.).
   B. AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 53°F (ADJ.).
   C. AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 65°F (ADJ.).

COOLING CONTROL - NORMAL OPERATION :
1. THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE (SAT) AND STAGE THE COOLING TO MAINTAIN SAT SETPOINT.
   A. TO PREVENT SHORT CYCLING, THE PACKAGED MANUFACTURER CONTROLLER SHALL PROVIDE REQUIRED DELAYS BETWEEN STAGES AND MINIMUM COMPRESSOR ON/OFF RUNTIMES.
2. THE COOLING SHALL BE ENABLED WHENEVER:
   A. THE ECONOMIZER (IF PRESENT) IS DISABLED OR FULLY OPEN,
   B. THE SUPPLY FAN STATUSES ARE ON,
   C. THE HEATING (IF PRESENT) IS DISABLED.

HEATING CONTROL - NORMAL OPERATION :
1. THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE (SAT), MODULATE AND STAGE THE HEATING TO MAINTAIN THE ACTIVE HEATING SAT SETPOINT.
   A. TO PREVENT SHORT CYCLING, THE PACKAGED MANUFACTURER CONTROLLER SHALL PROVIDE THE REQUIRED DELAY BETWEEN STAGES AND MINIMUM RUNTIMES.
2. THE HEATING SHALL BE ENABLED WHENEVER:
   A. OUTDOOR AIR TEMPERATURE IS LESS THAN 55°F (ADJ.),
   B. THE ECONOMIZER (IF PRESENT) IS DISABLED,
   C. THE FAN STATUSES ARE ON,
   D. THE COOLING (IF PRESENT) IS DISABLED.

ECONOMIZER CONTROL (OUTDOOR AND RETURN AIR DAMPERS) - NORMAL OPERATION :
1. THE PACKAGED MANUFACTURER CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE (SAT) AND MODULATE THE ECONOMIZER DAMPERS TO MAINTAIN THE ACTIVE SAT SETPOINT.
2. THE OUTDOOR AIR DAMPER SHALL MODULATE BETWEEN THE ACTIVE MINIMUM OUTDOOR AIR DAMPER POSITION AND 100% OPEN AS REQUIRED TO MAINTAIN THE ACTIVE SAT SETPOINT.
3. THE ECONOMIZER MODE SHALL BE ENABLED WHENEVER:
   A. OUTDOOR AIR TEMPERATURE IS LESS THAN 65°F (ADJ.),
   B. THE OUTDOOR AIR ENTHALPY IS LESS THAN THE RETURN AIR ENTHALPY,
   C. THE HEATING (IF PRESENT) IS NOT ACTIVE,
   D. THE SUPPLY FAN STATUS IS ON.
4. WHEN ECONOMIZER COOLING IS DISABLED, THE OUTDOOR AIR DAMPER SHALL RETURN TO THE ACTIVE MINIMUM OUTDOOR AIR DAMPER POSITION.
   A. ON LOSS OF SUPPLY FAN STATUS, THE OUTDOOR AIR DAMPER SHALL CLOSE.

MINIMUM OUTDOOR AIR VENTILATION CONTROL - NORMAL OPERATION :
1. 1. WHEN IN THE OCCUPIED MODE, THE PACKAGED MANUFACTURER CONTROLLER SHALL MEASURE THE OUTDOOR AIRFLOW AND MODULATE THE OUTDOOR AIR DAMPER TO MAINTAIN THE MINIMUM OUTDOOR AIR VENTILATION SETPOINT.
2. THE MINIMUM OUTDOOR AIRFLOW SETPOINT FOR THE FOLLOWING (CONFIRM VALUE ON SHEET M601 - MECHANICAL SCHEDULE):
   A. RTU-1: 2,225 CFM.
   B. RTU-2: 2,750 CFM.
   C. RTU-3: 2,075 CFM.
   D. RTU-4: 2,000 CFM.

CONTINUED:

DEHUMIDIFICATION CONTROL (RETURN AIR) - NORMAL OPERATION :
1. THE CONTROLLER SHALL MEASURE THE RETURN AIR HUMIDITY AND OVERRIDE THE COOLING SEQUENCE TO MAINTAIN RETURN AIR HUMIDITY AT OR BELOW 60% RH (ADJ.).
2. DIRECT EXPANSION (DX) PACKAGE CONTROL SHALL CONTROL THE DX COIL LEAVING AIR TEMPERATURE TO A SETPOINT OF 48° F (ADJ.) AND MODULATE HOT GAS REHEAT TO MAINTAIN THE UNIT SUPPLY AIR TEMPERATURE OF 60°F (ADJ.), UNTIL THE RETURN AIR HUMIDITY SETPOINT IS BELOW SETPOINT.
3. DEHUMIDIFICATION SHALL BE ENABLED WHENEVER:
   A. THE FAN STATUSES ARE ON.

OPTIMAL START MODE :
1. THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF THE SCHEDULED OCCUPIED PERIOD.

PRE-FILTER DIFFERENTIAL PRESSURE MONITOR :
1. THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE PRE-FILTERS.
2. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   A. FILTER CHANGE REQUIRED: FILTER DIFFERENTIAL PRESSURE EXCEEDS A SETPOINT OF 1.0"W.C. (ADJ.).

FINAL FILTER DIFFERENTIAL PRESSURE MONITOR :
1. THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FINAL FILTERS.
2. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   A. FILTER CHANGE REQUIRED: FILTER DIFFERENTIAL PRESSURE EXCEEDS A SETPOINT OF 2.0"W.C. (ADJ.).

SAFETY CONDITIONS - THE UNIT SHALL SHUT DOWN AND GENERATE A DETAILED ALARM WHENEVER :
1. SYSTEM SHALL BE DISABLED BASED ON THE BELOW SCENARIOS, WITH SUPPLY FAN AND POWER EXHAUST FAN(S) DE-ENERGIZED, ALL TEMPERATURE CONTROL DISABLED, AND ALL MOTORIZED DAMPERS GOING TO THEIR NORMAL POSITIONS:
   A. EMERGENCY SHUTDOWN ACTIVE (BMS / ETC.).
   B. HIGH STATIC PRESSURE SENSOR ACTIVE (SET @ +3.0"W.C.) (ADJ.), WITH MANUAL RESET AND HARD WIRED.
   C. DUCT MOUNTED RETURN AIR SMOKE DETECTOR ACTIVE.
   D. DUCT MOUNTED SUPPLY AIR SMOKE DETECTOR ACTIVE.
   E. FIRE ALARM PANEL ACTIVE.

ALARMS SHALL BE PROVIDED AS FOLLOWS :
1. FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
2. FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
3. FAN FAULT: (ECM / VFD) IN FAULT.
4. HIGH SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
5. LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.
6. HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT.
7. LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) LESS THAN SETPOINT.
8. LOW RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS LESS THAN 25% RH (ADJ.).
9. HIGH RETURN AIR HUMIDITY: IF THE RETURN AIR HUMIDITY IS GREATER THAN 65% RH (ADJ.).
10. HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
11. LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

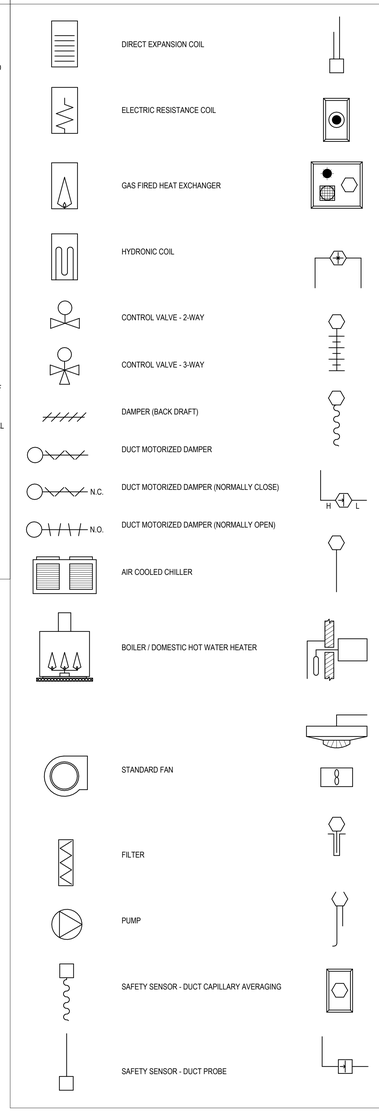
CONTROLS ABBREVIATIONS

ACCU	AIR COOLED CONDENSING UNIT	**DHWST**	DOMESTIC HOT WATER STORAGE TANK	HWB	HOT WATER BASIN	RAFD	RELIEF AIR DAMPER
ACH	AIR CHANGES PER HOUR	DI	DIGITAL INPUT	HWP	HOT WATER PUMP	RARH	RETURN AIR RELATIVE HUMIDITY
ACT	ALTERNATING CURRENT TRANSDUCER	DMP	DAMPER	**HWR**	DOMESTIC HOT WATER RETURN	RAT	RETURN AIR TEMPERATURE
ACU	AIR CONDITIONING UNIT	DO	DIGITAL OUTPUT	HX	HEAT EXCHANGER	RAV	RETURN AIR VALVE
ADJ	ADJUSTABLE	DOAS	DEDICATED OUTDOOR AIR SYSTEM	**INHG**	INCHES OF MERCURY (VACUUM)	RCP	RADIANT CEILING PANEL
AF	AIRFLOW	DP	DIFFERENTIAL PRESSURE	ISO	ISOLATION	RF	RETURN FAN
AFMS	AIRFLOW MEASURING STATION	DV	DIGITAL VALUE	ISOV	ISOLATION VALVE	RH	RELATIVE HUMIDITY
AFV	AIRFLOW VELOCITY	**DWH**	DOMESTIC WATER HEATER	L	LOW PRESSURE SIDE (NEGATIVE PRESSURE)	RHC	REHEAT COIL
AHU	AIR HANDLING UNIT	DX	DIRECT EXPANSION	LAT	LEAVING AIR TEMPERATURE	RHCV	REHEAT COIL VALVE
AI	ANALOG INPUT	EA	EXHAUST AIR	LD	LEAK DETECTION	**RO**	REVERSE OSMOSIS
AO	ANALOG OUTPUT	EAD	EXHAUST AIR DAMPER	LPS	LOW PRESSURE STEAM	**RP**	RE-CIRCULATING PUMP
AS	AQUASTAT	EAT	ENTERING AIR TEMPERATURE	LPSL	LOW PRESSURE STATIC LIMIT	RTU	ROOF TOP UNIT
AV	ANALOG VALUE	EAV	EXHAUST AIR VALVE	LS	LEVEL SENSOR	SA	SUPPLY AIR
B	BOILER	**EWH**	ELECTRIC WATER HEATER	**LWT**	LEAVING WATER TEMPERATURE	SAD	SUPPLY AIR DAMPER
BACNET	BUILDING AUTOMATION AND CONTROL NETWORK	**ECM**	ELECTRONIC COMMUTATED MOTOR	M	MOTORIZED	SARH	SUPPLY AIR RELATIVE HUMIDITY
BAS	BUILDING AUTOMATION SYSTEM	EF	EXHAUST FAN	**MA**	MEDICAL AIR	SAT	SUPPLY AIR TEMPERATURE
BCU	BLOWER COIL UNIT	EM	ELECTRIC METER	MAC	MEDICAL AIR COMPRESSOR	SAV	SUPPLY AIR VALVE
BDD	BACK DRAFT DAMPER	ERP	ENERGY RECOVERY PUMP	MAD	MIXED AIR DAMPER	SD	SMOKE DETECTOR
BI	BINARY INPUT	ERV	ENERGY RECOVERY VENTILATOR	MAT	MIXED AIR TEMPERATURE	SF	SUPPLY FAN
BMS	BUILDING MANAGEMENT SYSTEM	ERW	ENERGY RECOVERY WHEEL	MAU	MAKE-UP AIR UNIT	SMD	SLAB MOISTURE DETECTION
BO	BINARY OUTPUT	EW	ENTHALPY WHEEL	MEP	MECHANICAL, ELECTRICAL, PLUMBING	SMK	SMOKE
BP	BOILER PUMP	**EWT**	ENTERING WATER TEMPERATURE	MFM	MASS FLOW METER	SM-M	SNOW MELT MANIFOLD
BTUH	BRITISH THERMAL UNITS PER HOUR	FB	FEEDBACK	**MRI**	MAGNETIC RESONANCE IMAGING	SMP	SNOW MELT PUMP
BYP	BYPASS	FC	FLUID COOLER	MS	MOISTURE SENSOR	SMR	SNOW MELT RETURN
BV	BINARY VALUE	FCU	FAN COIL UNIT	MSV	MULTI-STATE VALUE	SMS	SNOW MELT SUPPLY
C	CONDENSATE	FFU	FAN FILTER UNIT	**MV**	MEDICAL VACUUM	SOO	SEQUENCE OF OPERATIONS
CAV	CONSTANT AIR VOLUME	FILT	FILTER	MVP	MEDICAL VACUUM PUMP	SOP	SEQUENCE OF OPERATIONS
CEC	CRITICAL ENVIRONMENTS CONTROLLER	FM	FLOW METER	N.C.	NORMALLY CLOSE	**SP**	SUMP PUMP
CFM	CUBIC FEET PER MINUTE	FP	FILTER PUMP	N.O.	NORMALLY OPEN	STM	STEAM
CH	CHILLER	FPVAV	FAN POWERED VARIABLE AIR VOLUME	**N2**	NITROGEN	STM COND	STEAM CONDENSATE
CHW	CHILLED WATER	FSS	FREEZE STAT SAFETY	**N2O**	NITROUS OXIDE	STMV	STEAM VALVE
CHWC	CHILLED WATER COIL	FS	FLOOR SENSOR	NG	NATURAL GAS	STP	STATIC PRESSURE
CHWP	CHILLED WATER PUMP	FT	FINNED TUBE	NO2	NITROGEN DIOXIDE	**STPT**	SETPOINT
CHWR	CHILLED WATER RETURN	GAL	GALLON(S)	**O2**	OXYGEN	**T**	TEMPERATURE (SENSOR)
CHWS	CHILLED WATER SUPPLY	GFHX	GAS FIRED HEAT EXCHANGER	OA	OUTDOOR AIR	**TEMP (°F)**	TEMPERATURE
CHWV	CHILLED WATER VALVE	GM	GAS METER	OAD	OUTDOOR AIR DAMPER	TF	TRANSFER FAN
CMD	COMMAND	GWH	GAS WATER HEATER	OAF	OUTDOOR AIRFLOW	**TOD**	TIME OF DAY SCHEDULE
CO	CARBON MONOXIDE	GMU	GLYCOL MAKEUP UNIT	OARH	OUTDOOR AIR RELATIVE HUMIDITY	**TPV**	TEMPERING VALVE
CO2	CARBON DIOXIDE	GP	GLOBAL POINT	OAT	OUTDOOR AIR TEMPERATURE	UH	UNIT HEATER
COMP	COMPRESSOR	**GPM**	GALLONS PER MINUTE	OCC	OCCUPANCY	UPS	UNINTERRUPTED POWER SUPPLY
COND	CONDENSER	GV	GLOBAL VALUE	OS	OCCUPANCY SENSOR	UV	UNIT VENTILATOR
CP	CIRCULATION PUMP	H	HIGH PRESSURE SIDE (DIFFERENTIAL PRESSURE)	%	PERCENTAGE	VAV	VARIABLE AIR VOLUME
CRC	CRITICAL ROOM CONTROL	H	SENSOR HUMIDITY	P	PUMP	**VFC**	VARIABLE FREQUENCY CONTROLLER
CT	COOLING TOWER	HGRH	HOT GAS REHEAT	PH	PRE-HEAT	**VFD**	VARIABLE FREQUENCY DRIVE
CTF	COOLING TOWER FAN	HHWC	HEATING HOT WATER COIL	PHV	PERIMETER HEAT VALVE	VOC	VOLATILE ORGANIC COMPOUNDS
CUH	CABINET UNIT HEATER	HHWR	HEATING HOT WATER RETURN	POS	POSITION	VP	VIRTUAL POINT
CV	CALCULATED VALUE	HHWS	HEATING HOT WATER SUPPLY	PPB	PARTS PER BILLION	VUV	VERTICAL UNIT VENTILATOR
CW	DOMESTIC COLD WATER	HHWV	HEATING HOT WATER VALVE	**PPM**	PARTS PER MILLION	"W.C.	INCHES OF WATER COLUMN
CWB	COLD WATER BASIN	**HMI**	HUMAN MACHINE INTERFACE	PR	PANEL RADIATOR	**WAGD**	WASTE ANESTHETIC GAS DISPOSAL
CWP	CONDENSER WATER PUMP	HP	HEAT PUMP	PRECIP	PRECIPITATION	**WBP**	WATER BY-PASS PANEL
CWR	CONDENSER WATER RETURN	HPCV	HEAT PUMP CONTROL VALVE	PS	PRESSURE SENSOR	**WH**	WATER HEATER
CWS	CONDENSER WATER SUPPLY	HPS	HIGH PRESSURE STEAM	**PSI**	POUNDS PER SQUARE INCH	**WM**	WATER METER
DAT	DISCHARGE AIR TEMPERATURE	HPSL	HIGH PRESSURE STATIC LIMIT	PSID	POUNDS PER SQUARE INCH DIFFERENTIAL		
DBP	DOMESTIC BOOSTER PUMP	HRC	HEAT RECOVERY COIL	**PSIG**	POUNDS PER SQUARE INCH GAUGE		
DC	DRY CONTACT	HRCV	HEAT RECOVERY COIL VALVE	**PWR**	POWER		
DDC	DIRECT DIGITAL CONTROLS	**HT**	HEAT TRACE	RA	RETURN AIR		
DHWS	DOMESTIC HOT WATER SYSTEM	HUM	HUMIDIFIER	RAD	RETURN AIR DAMPER		
		HVAC	HEATING VENTILATION AIR & CONDITIONING	RAF	RELIEF AIR		
		HW	DOMESTIC HOT WATER				

CONTROLS GENERAL NOTES

1. PROVIDE DIRECT DIGITAL CONTROLS FOR THE FOLLOWING INCLUDING BUT NOT LIMITED TO:
   A. EQUIPMENT.
   B. SYSTEMS.
   C. CONTROL DRAWINGS.
2. BUILDING MANAGEMENT SYSTEM (BMS) SHALL CONTROL, ALARM AND MONITOR ALL EQUIPMENT AND SYSTEMS NOT LIMITED TO BUT INCLUDING INDICATED ON OR DESCRIBED IN THE CONTRACT DOCUMENTS.
3. CONTROL DIAGRAMS:
   A. CONTROL DIAGRAMS FOR M700 SHEETS ARE THE DESIGNERS INTENT OF THE FOLLOWING:
      A. REPRESENTATION OF EQUIPMENT AND SYSTEM GRAPHICS.
         - MISCELLANEOUS EQUIPMENT AND SYSTEMS SHALL HAVE GRAPHICS.
      B. A POINTS LIST IS NOT PROVIDED, POINTS REPRESENTED ARE INDICATED ON CONTROL DIAGRAMS OR NOTED IN SEQUENCE OF OPERATIONS.
      C. ALL POINTS SHALL BE ALARMED AS NOTED IN SEQUENCE OF OPERATIONS.
      D. ALL POINTS SHALL BE TRENDED UNLESS OTHERWISE NOTED.
      E. CONTROL POINTS FOR CONTROL CONTRACTOR TO PROVIDE CONTROLLERS:
         - DIGITAL INPUT (DI)
         - DIGITAL OUTPUT (DO)
         - ANALOG INPUT (AI)
         - ANALOG OUTPUT (AO)
      F. CONTROL POINTS FOR EQUIPMENT PACKAGED CONTROLLERS BACNET / MODBUS:
         - READ / WRITE ANALOG OUTPUT (AO) AND DIGITAL OUTPUT (DO)
         - DIGITAL VALUE (DV)
         - ANALOG VALUE(AV)
   B. GRAPHIC CONTROL LOGIC FLOW CHARTS FOR EACH CONTROL SYSTEM SHALL BE INCLUDED TO SUPPORT SEQUENCES.
   C. ALL INITIAL ADJUSTABLE RANGES AND SETPOINT VALUES SHALL BE INDICATED.
4. SEQUENCE OF OPERATIONS:
   A. CONTROL SEQUENCE OF OPERATIONS FROM M700 SHEETS ARE THE DESIGNERS INTENT:
      A. CONTROL CONTRACTOR SHALL PROVIDE SEQUENCE OF OPERATION BASED ON INTERPRETATION OF HOW THE EQUIPMENT WILL OPERATE BASED ON THE SUBMITTED EQUIPMENT AND CONTROLLERS PROVIDED FOR EQUIPMENT AND SYSTEMS.
   B. ALL INITIAL ADJUSTABLE RANGES AND SETPOINT VALUES SHALL BE INDICATED.
5. OTHER:
   A. ALL SETPOINTS AND PARAMETERS SHALL BE ADJUSTED OR MODIFIED AS REQUIRED DURING SUBMITTAL REVIEW, SETUP AND COMMISSIONING.
   B. THE DIRECT DIGITAL CONTROLS (DDC) SHALL BE PROGRAMMED TO THE SEQUENCE OF OPERATION AS DESCRIBED WITHIN THE CONTRACT DOCUMENTS. PROVIDE AND INSTALL ALL NECESSARY COMPONENTS AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM INCLUDING, BUT NOT LIMITED TO SENSORS, RELAYS, GATEWAYS, COMMUNICATION WIRING AND CONDUIT, AND ALL NECESSARY ELECTRICAL DEVICES, WIRING, AND CONDUIT.
   C. ALL SETPOINTS. DEAD BANDS, AND TIME DELAY INTERVALS DESCRIBED OR NOT DESCRIBED IN SEQUENCE SHALL BE ADJUSTABLE BY SYSTEM OPERATORS. APPROPRIATE DEAD BANDS AND TIME DELAYS SHALL BE USED TO PREVENT SHORT CYCLING.
   D. PROVIDE FINAL CALIBRATION K-FACTORS FOR ALL DEVICES INCLUDING, BUT NOT LIMITED TO TERMINAL AIR UNITS, AIRFLOW STATIONS, FAN OFFSETS.
   E. FURNISH UNINTERRUPTED POWER SYSTEM (UPS) SYSTEM(S) FOR CONTROLLERS ASSOCIATED WITH HEATING HOT WATER SYSTEM, PHARMACY HVAC SYSTEMS (SUPPLY AND EXHAUST SYSTEMS AND CRITICAL ROOM CONTROL DEVICES (AIR VALVES, ROOM PRESSURE MONITORS.))
   F. PROVIDE NON-INTEGRAL CONTROL VOLTAGE TRANSFORMER FOR LOW VOLTAGE WIRING. TERMINAL UNITS SHALL BE GROUPED INTO A MAXIMUM OF TEN (10) TERMINAL UNITS PER TRANSFORMER. TRANSFORMER SHALL BE SIZED PER TERMINAL UNIT REQUIREMENTS.

CONTROL SYMBOLS



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10/13/2026 BIDS

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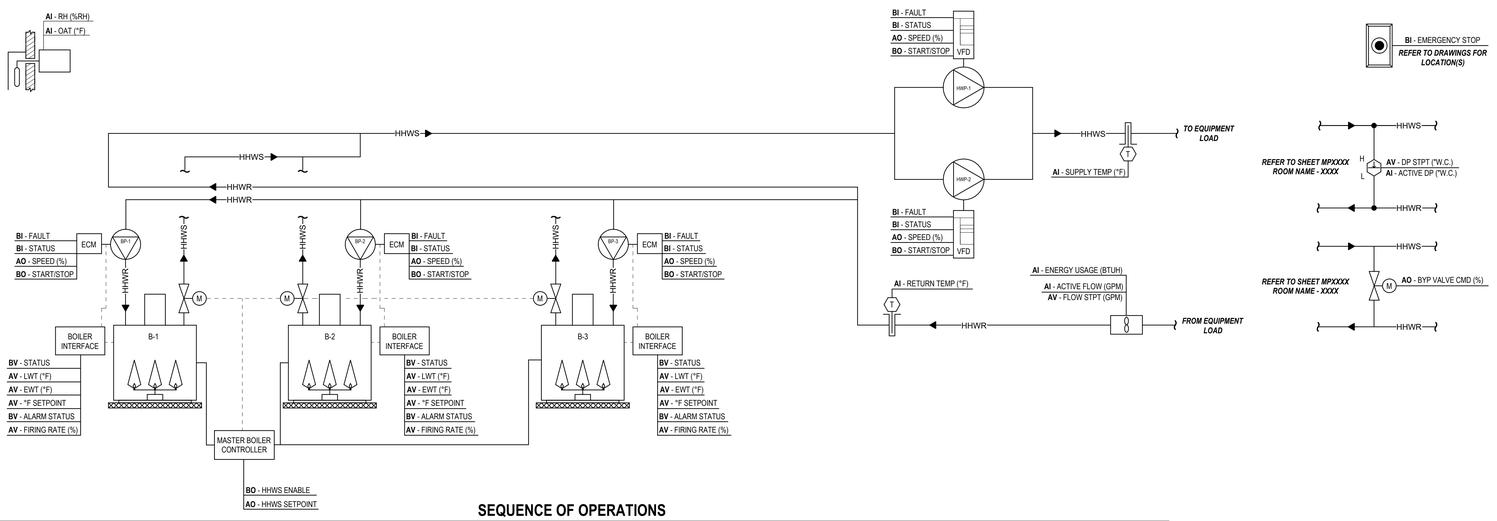
CONTROLS DIAGRAM - HEATING HOT WATER SYSTEM



SEQUENCE OF OPERATIONS

PROVIDE DIRECT DIGITAL CONTROLS (DDC) BASED ON THE FOLLOWING:
1. REFER TO CONSTRUCTION DOCUMENTS FOR SCHEDULE INFORMATION AND REMARKS.
2. DEVICES, SENSORS, COMPONENTS, PROGRAMMING, CONTROLLERS, AND GRAPHICS SHALL BE PROVIDED BY CONTROLS CONTRACTOR.
3. HEATING HOT WATER SYSTEM(S) SHALL BE CONTROLLED BY THE BUILDING MANAGEMENT SYSTEM (BMS).
4. HEATING HOT WATER BOILER(S) AND BOILER PUMP(S) SHALL BE CONTROLLED BY PACKAGED MANUFACTURER CONTROLLER.
   A. BMS SHALL ENABLE AND DISABLE THE SYSTEM THROUGH MASTER BOILER CONTROLLER.
   B. BMS SHALL BE ABLE TO ADJUST SUPPLY TEMPERATURE SETPOINT THROUGH MASTER BOILER CONTROLLER.
   C. BMS SHALL MONITOR THE INTERFACE POINTS VIA BACNET / MODBUS CONNECTION.

OPERATION CONDITIONS:
1. DEFINABLE NUMBER OF HEATING HOT WATER REQUESTS FROM SYSTEMS,
2. OR OUTDOOR AIR TEMPERATURE IS LESS THAN 65°F (ADJ.),
3. OR CONTINUOUS ENABLED 24/7,
4. OR MANUAL OVERRIDE FROM BMS GRAPHICS.

WHEN SYSTEM IS DISABLED, ACTIONS ARE AS FOLLOWS:
1. MASTER BOILER CONTROLLER DISABLED BY BMS,
2. THEN BOILERS DISABLED BY MASTER BOILER CONTROLLER,
   A. LEAD BOILER ISOLATION VALVE SHALL REMAIN OPEN.
3. THEN PRIMARY PUMP(S) DISABLED BY BOILER CONTROLLER,
4. THEN SECONDARY PUMP(S) DISABLED AFTER TIME DELAY BY BMS.

WHEN SYSTEM IS ENABLED, ACTIONS ARE AS FOLLOWS:
1. SECONDARY LEAD PUMP(S) ENABLED BY BMS,
2. THEN MASTER BOILER CONTROLLER ENABLED BY BMS,
3. BOILERS B-1, B-2, B-3 AND ASSOCIATED BOILER PUMPS BP-1, BP-2, BP-3 SHALL BE CONTROLLED BY THE PACKAGED BOILER CONTROLS TO MAINTAIN THE ACTIVE HEATING HOT WATER SUPPLY TEMPERATURE SETPOINT.

SECONDARY PUMP HEATING HOT WATER DIFFERENTIAL PRESSURE CONTROL (L / L FIXED) - OPERATION:
1. THE SYSTEM CONTROLLER SHALL MEASURE HEATING HOT WATER SYSTEM DIFFERENTIAL PRESSURE AND MODULATE THE PUMP(S) SPEED IN SEQUENCE TO MAINTAIN THE HEATING HOT WATER DIFFERENTIAL PRESSURE SETPOINT.
   A. INITIAL HEATING HOT WATER DIFFERENTIAL PRESSURE SETPOINT OF 12 PSID (ADJ.).
      a. FINAL SETPOINT SHALL BE DETERMINED DURING TESTING, ADJUSTING AND BALANCING AND VERIFIED BY COMMISSIONING PROVIDER.

SECONDARY PUMP HEATING HOT WATER CONTROL (LEAD / LAG) - OPERATION:
1. PUMPS SHALL OPERATE IN LEAD / LAG FASHION.
   A. THE LEAD PUMP SHALL BE ENABLED FIRST.
   B. ON FAILURE OF THE LEAD PUMP, THE LAG PUMP SHALL BE ENABLED AND THE LEAD PUMP SHALL BE DISABLED.

CONTINUED:
   C. THE DESIGNATED LEAD PUMP SHALL ROTATE BASED UPON ONE OF THE FOLLOWING CONDITIONS (USER SELECTABLE):
      a. MANUALLY THROUGH A SOFTWARE SWITCH,
      b. OR IF PUMP RUNTIME (ADJ.) IS EXCEEDED,
      c. OR WEEKLY.
2. WHEN HEATING HOT WATER DIFFERENTIAL PRESSURE CONTINUES TO DROP, THE LAG PUMP SHALL BE ENABLED TO MAINTAIN SETPOINT AS FOLLOWS:
   A. THE CONTROLLER SHALL MODULATE THE LEAD PUMP SPEED TO MAINTAIN SETPOINT.
   B. IF THE LEAD PUMP SPEED IS GREATER THAN A SETPOINT OF 90% (ADJ.), THE LAG PUMP SHALL STAGED ON.
   C. THE LAG PUMP SPEED SHALL RAMP UP TO MATCH THE LEAD PUMP SPEED AND RUN IN UNISON TO MAINTAIN SETPOINT.
3. WHEN HEATING HOT WATER DIFFERENTIAL PRESSURE CONTINUES TO RISE, THE LAG PUMP SHALL STAGE OFF AS FOLLOWS:
   A. IF THE SPEEDS DROP TO 60% (ADJ.) BELOW SETPOINT, THE LAG PUMP SHALL STAGE OFF.
   B. THE LEAD PUMP SPEED SHALL CONTINUE TO MAINTAIN SETPOINT.

BOILER HEATING HOT WATER SUPPLY TEMPERATURE SETPOINT- OPERATION:
1. THE BOILER CONTROLLER (INTERNAL CONTROLS PROVIDED BY OTHERS) SHALL MEASURE THE HEATING HOT WATER SUPPLY TEMPERATURE AND STAGE THE BOILERS TO MAINTAIN HEATING HOT WATER SUPPLY TEMPERATURE SETPOINT.
2. THE HEATING HOT WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET BASED ON OUTDOOR AIR TEMPERATURE:
   A. AS THE OUTDOOR AIR TEMPERATURE RISES FROM 0°F (ADJ.) TO 70°F (ADJ.) THE HEATING HOT WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET DOWNWARDS INCREMENTALLY TO A 30°F MAXIMUM OFFSET.

HEATING HOT WATER BYPASS FLOW CONTROL- OPERATION:
1. THE CONTROLLER SHALL MEASURE HEATING HOT WATER RETURN GPM AND MODULATE THE SYSTEM BYPASS CONTROL VALVE TO MAINTAIN THE MINIMUM HEATING HOT WATER FLOW SETPOINT OF XX GPM (ADJ.).
   A. FINAL SETPOINT SHALL BE DETERMINED DURING TESTING, ADJUSTING, AND BALANCING AND VERIFIED BY COMMISSIONING PROVIDER.

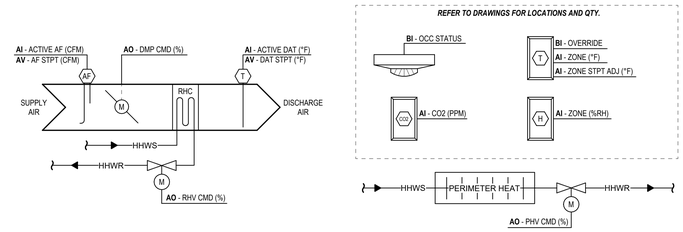
HEATING HOT WATER ENERGY USAGE- OPERATION:
1. THE CONTROLLER SHALL MEASURE HEATING HOT WATER RETURN WATER AND SUPPLY AND RETURN WATER TEMPERATURES TO CALCULATE SYSTEM ENERGY USAGE (ONICON F-3500 FLOW METER AND THERMAL ENERGY MEASUREMENT).
2. THE ENERGY USAGE SHALL BE RECORDED BY THE BMS AS FOLLOWS:
   A. RECORDED MINIMUM EVERY 15 MINUTES.
   B. REPORTED AT LEAST EVERY HOUR, DAILY, MONTHLY, AND ANNUALLY.
   C. SHALL BE CAPABLE OF MAINTAINING ALL DATA COLLECTED FOR A MINIMUM OF 36 MONTHS.

CONTINUED:
SAFETY CONDITIONS AND ALARMS - GENERATE A DETAILED ALARM WHENEVER:
1. EACH BOILER SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS.
   A. LOW WATER CUTOUT.
   B. OR HIGH LIMIT.
   C. OR GENERAL FAULT.
2. THE BOILER SYSTEM SHALL ALSO RUN FREEZE PROTECTION WHENEVER:
   A. THE OUTDOOR AIR TEMPERATURE IS LESS THAN 38°F (ADJ.).

EMERGENCY STOP - E-STOP:
1. THE HEATING HOT WATER SYSTEM SHALL BE DISABLED WHEN E-STOP BUTTON(S) IS ACTIVATED.
   A. DE-ENERGIZE BOILERS (GAS VALVE CLOSED),
   B. A DETAILED ALARM SHALL BE INDICATED AT BMS,
   C. SECONDARY PUMPS CONTINUES TO RUN.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
1. PUMP FAILURE: COMMAND ON, BUT THE STATUS IS OFF.
2. PUMP IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
3. PUMP RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.
4. PUMP FAULT: (ECM / VFD) IN FAULT.
5. HIGH HEATING HOT WATER DIFFERENTIAL PRESSURE: IF 25% (ADJ.) GREATER THAN SETPOINT.
6. LOW HEATING HOT WATER DIFFERENTIAL PRESSURE: IF 25% (ADJ.) LESS THAN SETPOINT.
7. HIGH HEATING HOT WATER SUPPLY TEMPERATURE: IF GREATER THAN 160°F (ADJ.)
8. LOW HEATING HOT WATER SUPPLY TEMPERATURE: IF LESS THAN 90°F (ADJ.).
9. BOILER FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
10. BOILER RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
11. BOILER FAULT.
12. LEAD BOILER FAILURE: THE LEAD BOILER IS IN FAILURE AND THE LAG BOILER IS ON.
13. HIGH RETURN WATER FLOW: IF GREATER THAN XXX GPM (ADJ.) WHEN BYPASS VALVE IS NOT 100% CLOSED.
14. LOW RETURN WATER FLOW: IF LESS THAN XX GPM (ADJ.) WHEN BYPASS CONTROL VALVE IS 100% CLOSED.
15. BY-PASS VALVE POSITION FAILURE: COMMANDED OPEN, BUT THE STATUS IS CLOSED.

CONTROLS DIAGRAM - TYPICAL HEATING HOT WATER REHEAT VARIABLE AIR VOLUME BOX



SEQUENCE OF OPERATIONS

PROVIDE DIRECT DIGITAL CONTROLS (DDC) BASED ON THE FOLLOWING:
1. REFER TO CONSTRUCTION DOCUMENTS FOR QUANTITY, SCHEDULE INFORMATION AND REMARKS AND AIRFLOW REQUIREMENTS.
2. DEVICES, SENSORS, COMPONENTS, PROGRAMMING, CONTROLLERS, AND GRAPHICS SHALL BE PROVIDED BY CONTROLS CONTRACTOR.
3. VARIABLE AIR VOLUME UNIT SHALL BE CONTROLLED BY THE BUILDING MANAGEMENT SYSTEM (BMS).

OPERATION CONDITIONS (***SCHEDULED***):
1. THE ZONE CONTROLLER SHALL BE ENABLED BASED ON AN ADJUSTABLE TIME OF DAY (TOD) SCHEDULE, BMS SHALL SEND THE ZONE CONTROLLER AN OCCUPIED, UNOCCUPIED, OR AN OVERRIDE COMMAND, IF COMMUNICATION IS LOST WITH THE BMS, THE ZONE CONTROLLER SHALL OPERATE IN THE OCCUPIED MODE.
   A. OCCUPIED MODE:
      a. HEATING SETPOINT OF 70°F (ADJ.).
      b. COOLING SETPOINT OF 75°F (ADJ.).
   B. UNOCCUPIED MODE:
      a. HEATING MINUS 5°F (ADJ.) OF THE OCCUPIED SETPOINT.
      b. COOLING PLUS 5°F (ADJ.) OF THE OCCUPIED SETPOINT.
2. PROVIDE THE FOLLOWING ALARMS:
   A. **"LOW ZONE TEMPERATURE"** : IF THE ZONE TEMPERATURE IS LESS THAN THE ACTIVE HEATING SETPOINT BY 5°F (ADJ.).
   B. **"HIGH ZONE TEMPERATURE"** : IF THE ZONE TEMPERATURE IS GREATER THAN THE ACTIVE COOLING SETPOINT BY 5°F (ADJ.).

MINIMUM VENTILATION CONTROL (***DCV***):
1. WHEN IN OCCUPIED MODE, THE ZONE CONTROLLER SHALL MEASURE THE ZONE C02 CONCENTRATION AND MODULATE THE ZONE DAMPER OPEN ON RISING C02 CONCENTRATION, OVERRIDING NORMAL DAMPER OPERATION TO MAINTAIN A C02 SETPOINT OF NOT MORE THAN 900 PPM (ADJ.).
2. PROVIDE A **"HIGH ZONE CARBON DIOXIDE CONCENTRATION"** ALARM, IF THE ZONE CO2 CONCENTRATION IS GREATER THAN 1,200 PPM (ADJ.).

ZONE SETPOINT ADJUSTMENT (***ZONE***):
1. THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE SETPOINTS AT THE ZONE THERMOSTAT.

UNOCCUPIED OVERRIDE CONTROL (***ZONE***):
1. A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE SYSTEM INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE SYSTEM SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

STANDBY CONTROL (***ZONE***):
1. THE SYSTEM CONTROLLER SHALL MONITOR ZONE OCCUPANCY AND WHEN THE OCCUPANCY SENSOR IS INACTIVE AFTER A TIME DELAY, ZONE TEMPERATURE SETPOINTS ARE SETBACK BASED ON THE FOLLOWING:
   A. HEATING -2°F (ADJ.) OF OCCUPIED HEATING SETPOINT.
   B. COOLING +2° (ADJ.) OF OCCUPIED COOLING SETPOINT.

UNOCCUPIED TEMPERATURE CONTROL (***ZONE***):
1. THE ASSOCIATED ZONE HVAC SYSTEM IS DISABLED BASED ON TIME OF DAY SCHEDULE,
   A. ZONE SETPOINTS INDEXED TO UNOCCUPIED,
   B. ZONE AIRFLOW DAMPER SHALL BE OPENED.
2. WHEN THE ZONE TEMPERATURE RISES ABOVE OR FALLS BELOW UNOCCUPIED ZONE TEMPERATURE SETPOINT, THE CONTROLLER SHALL RESPOND BASED ON THE FOLLOWING:
   a. A REQUEST SHALL BE SENT TO ASSOCIATED HVAC SYSTEM TO BE ENABLED AND ZONE CONTROLLING TO UNOCCUPIED SETPOINTS.
   b. ONCE ZONE TEMPERATURE SETPOINT HAS BEEN SATISFIED THE ASSOCIATED HVAC SYSTEM SHALL BE DISABLED.
3. WHEN THE ZONE IS UNOCCUPIED MODE THE FOLLOWING MODES SHALL BE DISABLED:
   A. ZONE OCCUPANCY (STANDBY).
   B. ZONE CO2 CONTROL.

CONTINUED:
PRESSURE INDEPENDENT REVERSING VARIABLE VOLUME CONTROL:
1. THE ZONE CONTROLLER SHALL MAINTAIN ZONE SETPOINTS BY CONTROLLING THE AIRFLOW THROUGH ONE OF THE FOLLOWING:
   A. OCCUPIED:
      a. WHEN THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
      b. WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING AND HEATING SETPOINTS, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE VENTILATION (ADJ.).
      c. WHEN THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT, THE UNIT CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT THE HEATING SETPOINT.
         • ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM ASSOCIATED HVAC SYSTEM, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
   B. UNOCCUPIED:
      a. WHEN THE ZONE IS UNOCCUPIED THE ZONE DAMPER SHALL CONTROL TO THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.).
      b. WHEN THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
      c. WHEN THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT, THE UNIT CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT THE SETPOINT.
         • ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE ASSOCIATED HVAC SYSTEM, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM UNOCCUPIED AIRFLOW (ADJ.) AND THE AUXILIARY HEATING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.

REHEAT COIL CONTROL (***MODULATING***):
1. THE ZONE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE REHEATING COIL VALVE OPEN ON DROPPING TEMPERATURE TO MAINTAIN HEATING SETPOINT.
   A. WHEN COLD AIR IS AVAILABLE FROM THE ASSOCIATED HVAC UNIT, THE ZONE DAMPER SHALL MODULATE TO THE MINIMUM OCCUPIED AIRFLOW (ADJ.). IF MORE HEAT IS REQUIRED, THE ZONE DAMPER SHALL MODULATE TO THE AUXILIARY HEATING AIRFLOW (ADJ.).

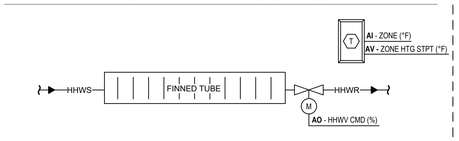
REHEAT - HIGH DISCHARGE AIR TEMPERATURE LIMIT CONTROL:
1. THE ZONE CONTROLLER SHALL MEASURE THE DISCHARGE AIR TEMPERATURE AND LIMIT REHEATING IF THE DISCHARGE AIR TEMPERATURE IS MORE THAN 95°F (ADJ.).

PERIMETER HEATING CONTROL:
1. THE ZONE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE PERIMETER HEATING COIL VALVE OPEN ON DROPPING TEMPERATURE TO MAINTAIN HEATING SETPOINT.

DISCHARGE AIR TEMPERATURE (***MONITORING***):
1. THE ZONE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.
2. PROVIDE THE FOLLOWING ALARMS:
   A. **"HIGH DISCHARGE AIR TEMPERATURE"** : IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
   B. **"LOW DISCHARGE AIR TEMPERATURE"** : IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).

PERIMETER HEATING CONTROL:
1. THE ZONE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE PERIMETER HEATING COIL VALVE OPEN ON DROPPING TEMPERATURE TO MAINTAIN HEATING SETPOINT.

CONTROLS DIAGRAM - TYPICAL FINNED TUBE



SEQUENCE OF OPERATIONS

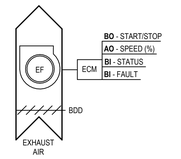
PROVIDE DIRECT DIGITAL CONTROLS (DDC) BASED ON THE FOLLOWING:
1. REFER TO CONSTRUCTION DOCUMENTS FOR QUANTITY, SCHEDULE INFORMATION AND REMARKS.
2. DEVICES, SENSORS, COMPONENTS, PROGRAMMING, CONTROLLERS, AND GRAPHICS SHALL BE PROVIDED BY CONTROLS CONTRACTOR.
3. FINNED TUBE SHALL BE CONTROLLED BY THE BUILDING MANAGEMENT SYSTEM (BMS).

OPERATION CONDITIONS (SCHEDULED) :
1. THE ZONE CONTROLLER SHALL BE ENABLED BASED ON AN ADJUSTABLE TIME OF DAY (TOD) SCHEDULE, BMS SHALL SEND THE ZONE CONTROLLER AN OCCUPIED, UNOCCUPIED, OR AN OVERRIDE COMMAND, IF COMMUNICATION IS LOST WITH THE BMS, THE UNIT CONTROLLER SHALL OPERATE IN THE OCCUPIED MODE.
   A. OCCUPIED MODE: THE UNIT SHALL MAINTAIN A HEATING SETPOINT OF 70°F (ADJ.).
   B. UNOCCUPIED MODE: THE UNIT SHALL MAINTAIN A HEATING SETPOINT OF 60°F (ADJ.).
2. PROVIDE THE FOLLOWING ALARM:
   A. **"LOW ZONE TEMPERATURE"** : IF THE ZONE TEMPERATURE IS LESS THAN THE ACTIVE HEATING SETPOINT BY 5°F (ADJ.).

HEATING COIL CONTROL (MODULATING):
1. THE UNIT CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE HEATING COIL VALVE TO MAINTAIN THE ZONE HEATING SETPOINT.
2. HEATING SHALL BE ENABLED WHENEVER:
   A. THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT,
   B. OUTDOOR AIR TEMPERATURE IS LESS THAN 55°F (ADJ.),
   C. THE HWS STATUS IS ON.

PERIMETER HEATING / VAV COORDINATION:
1. WHERE FINNED TUBE HEATING AND A VAV TERMINAL UNIT SERVE THE SAME ZONE, THE ASSOCIATED ZONE CONTROLLER SHALL COORDINATE HEATING AS FOLLOWS:
   A. FIRST STAGE HEAT: MODULATE THE FINNED TUBE HEATING HOT WATER VALVE TO MAINTAIN THE ZONE HEATING SETPOINT.
   B. SECOND STAGE HEAT: IF ADDITIONAL HEATING IS REQUIRED, ENABLE THE ASSOCIATED VAV REHEAT SEQUENCE.
2. THE BMS SHALL INCLUDE FINNED TUBE HEATING HOT WATER CONTROL VALVE POSITION IN THE HEATING HOT WATER DISTRIBUTION PUMP DIFFERENTIAL PRESSURE SETPOINT OPTIMIZATION SEQUENCE.

CONTROLS DIAGRAM - TYPICAL EXHAUST FAN



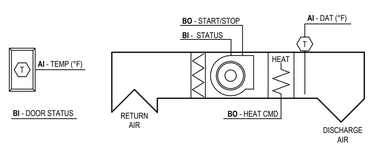
SEQUENCE OF OPERATIONS

PROVIDE DIRECT DIGITAL CONTROLS (DDC) BASED ON THE FOLLOWING:
1. REFER TO CONSTRUCTION DOCUMENTS FOR QUANTITY, SCHEDULE INFORMATION AND REMARKS.
2. DEVICES, SENSORS, COMPONENTS, PROGRAMMING, CONTROLLERS, AND GRAPHICS SHALL BE PROVIDED BY CONTROLS CONTRACTOR.
3. EXHAUST FAN SHALL BE CONTROLLED BY THE BUILDING MANAGEMENT SYSTEM (BMS).

OPERATION CONDITIONS (***SCHEDULED ON/OFF***):
1. THE UNIT CONTROLLER SHALL BE ENABLED BASED ON AN ADJUSTABLE TIME OF DAY (TOD) SCHEDULE, BMS SHALL SEND THE UNIT CONTROLLER AN OCCUPIED, UNOCCUPIED, OR AN OVERRIDE COMMAND, IF COMMUNICATION IS LOST WITH THE BMS, THE UNIT CONTROLLER SHALL OPERATE IN THE OCCUPIED MODE.
   A. OCCUPIED MODE: THE UNIT SHALL BE ENABLED CONTINUOUSLY.
   B. UNOCCUPIED MODE: THE UNIT SHALL BE DISABLED.

FAN CONTROL (***ON/OFF***):
1. THE FAN SHALL BE ENERGIZED ANYTIME THE UNIT IS ENABLED, UNLESS SHUTDOWN ON SAFETIES.
2. TO PREVENT SHORT CYCLING, THE FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.
3. THE FAN SHALL BE MONITORED FOR: COMMAND AND STATUS, ENERGY USAGE (kW), AND RUNTIME (HRS).
4. PROVIDE THE FOLLOWING ALARMS:
   A. **"FAN FAILURE"** : COMMANDED ON, BUT THE STATUS IS OFF.
   B. **"FAN IN HAND"**: COMMANDED OFF, BUT THE STATUS IS ON.
   C. **"FAN ECM FAULT"** : FAN ECM INDICATING A FAULT.

CONTROLS DIAGRAM - TYPICAL ELECTRIC DOOR AIR CURTAIN



SEQUENCE OF OPERATIONS

PROVIDE DIRECT DIGITAL CONTROLS (DDC) BASED ON THE FOLLOWING :
1. REFER TO CONSTRUCTION DOCUMENTS FOR QUANTITY, SCHEDULE INFORMATION AND REMARKS AND AIRFLOW REQUIREMENTS (IF APPLICABLE).
2. DEVICES, SENSORS, COMPONENTS, PROGRAMMING, CONTROLLERS, AND GRAPHICS SHALL BE PROVIDED BY CONTROLS CONTRACTOR.
3. ELECTRIC DOOR AIR CURTAIN(S) SHALL BE CONTROLLED BY THE BUILDING MANAGEMENT SYSTEM (BMS).

OPERATION CONDITIONS :
1. ADJUSTABLE TIME OF DAY (TOD) SCHEDULE, BMS SHALL SEND THE CONTROLLER AN OCCUPIED OR UNOCCUPIED COMMAND, IF COMMUNICATION IS LOST WITH THE BMS, THE CONTROLLER SHALL OPERATE IN THE OCCUPIED MODE.
   A. OCCUPIED MODE: THE DOOR AIR CURTAIN SHALL BE ENABLED CONTINUOUSLY TO MAINTAIN ZONE TEMPERATURE SETPOINT FOR HEATING OF 60°F (ADJ.).
   B. UNOCCUPIED MODE: THE DOOR AIR CURTAIN SHALL BE DISABLED AND ENABLED TO MAINTAIN ZONE TEMPERATURE SETPOINT FOR HEATING MINUS 10°F (ADJ.) OF OCCUPIED SETPOINT.
   C. CONTINUOUSLY ENABLED 24/7: THE DOOR AIR CURTAIN SHALL BE ENABLED CONTINUOUSLY TO MAINTAIN ZONE TEMPERATURE SETPOINT FOR HEATING OF 60°F (ADJ.).
2. OR MANUAL OVERRIDE FROM BMS GRAPHICS,
3. OR ZONE TIMED OVERRIDE.

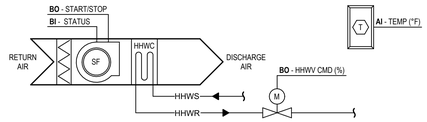
WHEN UNIT IS DISABLED, ACTIONS ARE AS FOLLOWS :
1. HEATING SHALL BE DE-ENERGIZED,
2. THEN THE FAN SHALL BE DE-ENERGIZED AFTER A TIME DELAY.

WHEN UNIT IS ENABLED, ACTIONS ARE AS FOLLOWS :
1. THE FAN SHALL BE ENERGIZED FIRST,
2. THEN AFTER A TIME DELAY, ENABLE NORMAL OPERATION.

OCCUPIED TEMPERATURE CONTROL - NORMAL OPERATION :
1. WHEN THE ZONE TEMPERATURE DROPS BELOW ZONE TEMPERATURE SETPOINT, THE SYSTEM CONTROLLER SHALL RESPOND BASED ON THE FOLLOWING:
   A. FAN: THE FAN SHALL BE ENERGIZED AND ON LOW SPEED UNLESS THE DOOR OPENS AT WHICH POINT IT RAMPS TO HIGH SPEED.
   B. ELECTRIC RESISTANCE COIL: THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND SHALL ENERGIZE (STAGED) TO MAINTAIN ZONE HEATING SETPOINT.
   C. HEATING SHALL BE ENABLED WHENEVER:
      a. OUTDOOR AIR TEMPERATURE IS LESS THAN 45°F (ADJ.),
      b. THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT,
      c. THE FAN STATUS IS ON.

ALARMS SHALL BE PROVIDED AS FOLLOWS :
1. FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
2. FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
3. HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
4. LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).
5. FILTER CHANGE REQUIRED: FILTER HAS BEEN IN USE FOR MORE THAN 2,200 HRS (ADJ.).
6. HIGH ZONE TEMPERATURE: IF ZONE TEMPERATURE IS 4°F (ADJ.) GREATER THAN ACTIVE SETPOINT.
   A. ONLY WHEN IN HEAT MODE.
7. LOW ZONE TEMPERATURE: IF ZONE TEMPERATURE IS 4°F (ADJ.) LESS THAN ZONE SETPOINT.
8. DOOR ALARM: DOOR STATUS REMAINS OPEN FOR A PERIOD OF TIME GREATER THAN 60 MINUTES (ADJ.)

CONTROLS DIAGRAM - TYPICAL CABINET UNIT HEATER



SEQUENCE OF OPERATIONS

PROVIDE DIRECT DIGITAL CONTROLS (DDC) BASED ON THE FOLLOWING:
1. REFER TO CONSTRUCTION DOCUMENTS FOR QUANTITY, SCHEDULE INFORMATION AND REMARKS.
2. DEVICES, SENSORS, COMPONENTS, PROGRAMMING, CONTROLLERS, AND GRAPHICS SHALL BE PROVIDED BY CONTROLS CONTRACTOR.
3. CABINET UNIT HEATER SHALL BE CONTROLLED BY THE BUILDING MANAGEMENT SYSTEM (BMS).

OPERATION CONDITIONS (***SCHEDULED***):
1. THE UNIT CONTROLLER SHALL BE ENABLED BASED ON AN ADJUSTABLE TIME OF DAY (TOD) SCHEDULE, BMS SHALL SEND THE UNIT CONTROLLER AN OCCUPIED, UNOCCUPIED, OR AN OVERRIDE COMMAND, IF COMMUNICATION IS LOST WITH THE BMS, THE UNIT CONTROLLER SHALL OPERATE IN THE OCCUPIED MODE.
   A. OCCUPIED MODE: THE UNIT SHALL MAINTAIN A HEATING SETPOINT OF 60°F (ADJ.).
   B. UNOCCUPIED MODE: THE UNIT SHALL MAINTAIN A HEATING SETPOINT OF 55°F (ADJ.).
2. PROVIDE A **"LOW ZONE TEMPERATURE"** ALARM, IF THE ZONE TEMPERATURE IS LESS THAN THE ACTIVE HEATING SETPOINT BY 5°F (ADJ.).

FAN CONTROL (***CONSTANT SPEED***):
1. THE FAN SHALL BE ENERGIZED ANYTIME THE ZONE TEMPERATURE FALLS BELOW HEATING SETPOINT.
2. THE FAN SHALL BE MONITORED FOR: COMMAND AND STATUS, ENERGY USAGE (kW), AND RUNTIME (HRS).
3. PROVIDE THE FOLLOWING ALARMS:
   A. **"FAN FAILURE"** : COMMANDED ON, BUT THE STATUS IS OFF.
   B. **"FAN IN HAND"**: COMMANDED OFF, BUT THE STATUS IS ON.
   C. **"FAN ECM FAULT"** : FAN ECM INDICATING A FAULT.

HEATING COIL CONTROL (***2-POSITION***):
1. THE UNIT CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND OPEN THE HEATING COIL VALVE TO MAINTAIN ZONE HEATING SETPOINT.
2. HEATING SHALL BE ENABLED WHENEVER:
   A. THE OUTDOOR AIR TEMPERATURE IS LESS THAN 45°F (ADJ.),
   B. THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT,
   C. THE FAN STATUS IS ON.

ALARM SHALL BE PROVIDED AS FOLLOWS:
1. **"FILTER CHANGE REQUIRED"** : FILTER HAS BEEN IN USE FOR MORE THAN 2,200 HRS (ADJ.).

PROGRESSIVE AE, INC.
PROGRESSIVE COMPANIES
Charlotte, NC | Detroit, MI | Grand Rapids, MI
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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
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PROFESSIONAL
T. FREY
DRAWN BY
B. GARCIA
CHECKED BY
M. GROSE

MECHANICAL CONTROLS
M702

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BIS -

ELECTRICAL ABBREVIATIONS

A	AMPERES
ACU	AIR CONDITIONING UNIT
AFG	ABOVE FINISH GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AP	ACCESS PANEL
APPROX	APPROXIMATE
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILARY
AWG	AMERICAN WIRE GAUGE
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BF	BARRIER FREE
BFG	BELOW FINISHED GRADE
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DEVICE
BSMT	BASEMENT
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED-CIRCUIT TELEVISION
CF	CEILING FAN
CH	CABINET HEATER
CL	CENTERLINE
CLR	CLEAR, CLEARANCE
CMPR	COMPRESSOR
CONV	CONVECTOR
CP	CIRCULATING PUMP
CR	CARD READER
CT	COOLING TOWER
CU	COPPER
DEPT	DEPARTMENT
DET	DETAIL
DISC	DISCONNECT
DIST	DISTRIBUTION
DW	DISHWASHER
DWH	DOMESTIC WATER HEATER
EF	EXHAUST FAN
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FC	FLEXIBLE CONNECTION
FDS	FUSED DISCONNECT SWITCH
FIXT	FIXTURE
FL	FLUORESCENT
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FMC	FLEXIBLE METAL CONDUIT
FURN	FURNISH, FURNISHED
GALV	GALVANIZED
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTOR
GND	GROUND
HP	HORSEPOWER
HTG	HEATING
HTR	HEATER
HV	HIGH VOLTAGE
IBC	INTERNATIONAL BUILDING CODE
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JBOX	JUNCTION BOX
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
KWH	KILOWATT-HOURS
LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
LTG	LIGHTING
LV	LOW VOLTAGE
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MFDS	MAIN FUSED DISCONNECT SWITCH
MH	MANHOLE
MLO	MAIN LUGS ONLY
MOP	MAXIMUM OVERCURRENT PROTECTION
MSBD	MAIN SWITCH BOARD
MT	MOUNT
MTR	MOTOR, MOTORIZED
MTS	MANUAL TRANSFER SWITCH
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NL	NIGHT-LIGHT
OH	OVERHEAD
OHD	OVERHEAD DOOR
P	PUMP
PH	PHASE
PNL	PANEL
PP	POWER POLE
PRI	PRIMARY
PVC	POLYVINYL CHLORIDE
PWR	POWER
RECEPT	RECEPTACLE
RTU	ROOFTOP UNIT
TEL	TELEPHONE
TR	TAMPER RESISTANT
TV	TELEVISION
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UH	UNIT HEATER
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WH	WATER HEATER
XFER	TRANSFER
XFMR	TRANSFORMER
Ø	PHASE

DATA SYMBOL LEGEND

SYMBOL	DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)
#	DATA/PHONE OUTLET, # INDICATES QUANTITY OF ANTICIPATED JACKS	18"
#	ABOVE COUNTERTOP DATA/PHONE OUTLET, MOUNT 4" ABOVE BACKSPLASH. # INDICATES QUANTITY OF ANTICIPATED JACKS	46"
#	MULTIOUTLET WIREMOLD ASSEMBLY, MOUNT 4" ABOVE BACKSPLASH OR PROVIDE DATA OUTLETS AS SHOWN ON DRAWING. # INDICATES QUANTITY OF ANTICIPATED JACKS	46"
#	FLOOR DATA/PHONE OUTLET. # INDICATES QUANTITY OF ANTICIPATED JACKS	
#	CEILING DATA/PHONE OUTLET. # INDICATES QUANTITY OF ANTICIPATED JACKS	
WAP CLG	CEILING WIRELESS ACCESS POINT	
WAP	WIRELESS ACCESS POINT	46"
TV	TELEVISION OUTLET	18"
	CLOCK	84"
IC	INTERCOM OUTLET LOCATION	46"
IC AV	INTERCOM - AUDIO/VISUAL	46"
S	SPEAKER (WALL OR CEILING MT.)	84"
E	SOUND MASKING EMITTER (WALL OR CEILING MT.)	84"
S V	VOLUME CONTROL	46"
M	MICROPHONE OUTLET	18"
P	PROJECTOR CONTROL OUTLET	18"
H	HUMIDISTAT	46"
T	THERMOSTAT	46"
M	OUTLET IN FLOOR (MICROPHONE SHOWN)	

NOTE: SYMBOLS REPRESENT EQUIPMENT SPECIFIED BYOTHERS, THE SCOPE OF WORK REPRESENTED IN THESE DRAWINGS INCLUDES DEVICE BACKBOX AND CONDUIT FROM BACKBOX TO ABOVE ACCESSIBLE CEILING TERMINATED WITH INSULATED BUSHING (UNLESS NOTED OTHERWISE).

FIRE ALARM SYMBOL LEGEND

SYMBOL	DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)
P	WALL PULLSTATION DEVICE	46"
V	WALL AUDIO/VISUAL DEVICE (CANDELAS NOTED)	90"
V	WALL VISUAL DEVICE (CANDELAS NOTED)	90"
F	WALL AUDIO STATION	90"
V	CEILING AUDIO/VISUAL DEVICE (CANDELAS NOTED)	
V	CEILING VISUAL DEVICE (CANDELAS NOTED)	
F	CEILING AUDIO STATION	
SD	WALL SMOKE DETECTOR	WITHIN 12" OF CEILING
SD	WALL AUDIO/VISUAL SMOKE DETECTOR	WITHIN 12" OF CEILING
CD	WALL COMBO SMOKE/CO DETECTOR	WITHIN 12" OF CEILING
HD	WALL HEAT DETECTOR	90"
SD	CEILING SMOKE DETECTOR	
SD	CEILING AUDIO/VISUAL SMOKE DETECTOR	
CD	CEILING COMBO SMOKE/CO DETECTOR	
HD	CEILING HEAT DETECTOR	
DR	DUCT SMOKE DETECTOR (RETURN SIDE)	
DS	DUCT SMOKE DETECTOR (SUPPLY SIDE)	
FS	SPRINKLER FLOW SWITCH	
TS	SPRINKLER VALVE TAMPER SWITCH	
MH	WALL MAGNETIC HOLD OPEN	80"
RT	REMOTE TEST SWITCH	46"
FD	FIRE FIGHTER TELEPHONE	46"
FACP	FIRE ALARM CONTROL PANEL	80"
FAAP	FIRE ALARM ANNUNCIATOR PANEL	46"
NAC	FIRE ALARM NAC PANEL	46"

LIGHTING SYMBOL LEGEND

SYMBOL	DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)
S	SINGLE POLE SWITCH	46"
3	3-WAY SWITCH	46"
4	4-WAY SWITCH	46"
D	DIMMER SWITCH	46"
OS	OCCUPANCY SENSOR SWITCH	46"
MC	MOMENTARY CONTACT SWITCH	46"
T	TIMER SWITCH	46"
OSD	COMBINATION: OCCUPANCY SENSOR / 0-10V DIMMER SWITCH	46"
MCD	COMBINATION: MOMENTARY CONTACT SWITCH /0-10V DIMMER SWITCH	46"
CF	COMBINATION: LIGHT SWITCH / CEILING FAN CONTROLLER	46"
LV#	LIGHTING CONTROL SYSTEM PUSH BUTTON STATION	46"
DS2	DUAL RELAY OCCUPANCY SENSOR SWITCH	46"
K	KEYED SWITCH	46"
GTD	GENERATOR TRANSFER DEVICE	
OS	CEILING OCCUPANCY SENSOR	
LS	CEILING LIGHT LEVEL SENSOR	
PC	PHOTOCELL	
	POLE MOUNTED LIGHT (TYPE DENOTED)	PER SCHED
	WALL MOUNTED LIGHT (TYPE DENOTED)	AS NOTED
	RECESSED LIGHT (TYPE DENOTED)	
	SURFACE LIGHT (TYPE DENOTED)	
P1 P2	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)	
	TRACK AND TRACK LIGHT (TYPES DENOTED)	AS NOTED
	EMERGENCY DOUBLE HEAD WALL LIGHT (TYPE DENOTED)	96"
	EXIT SIGN (TYPE DENOTED)	
	LIGHT FIXTURE ON (EM) LIFE SAFETY OR CRITICAL BRANCH	AS NOTED

WIRING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	CONDUIT CONCEALED IN WALL OR OVERHEAD
	CONDUIT CONCEALED BELOW FLOOR
	CONDUIT EXPOSED
	CONDUIT TRANSITION UP
	CONDUIT TRANSITION DOWN
	CONDUIT STUBBED OUT
UG	UNDERFLOOR RACEWAY SYSTEM
	CABLE TRAY (TYPE DENOTED)
	CONDUIT SLEEVE (SIZE DENOTED)
	BRANCH CIRCUIT HOME RUN
	LOW VOLTAGE POWER WIRING
UGE	UNDERGROUND ELECTRICAL
OHE	OVERHEAD ELECTRIC
P	UTILITY SERVICE POWER POLE (SITE)
G	GROUND CONDUCTOR
	LIGHTNING PROTECTION AIR TERMINAL
	LIGHTNING PROTECTION CONDUCTOR SPLICE
	GROUND ROD (PLAN VIEW)
	GROUND CONNECTION TO STEEL OR STRUCTURE
	GROUND CONNECTION - EXOTHERMIC WELD

POWER SYMBOL LEGEND

SYMBOL	DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)
	SINGLE RECEPT ("EM" = EMERGENCY, "HG" = HOSPITAL GRADE, "TR" = TAMPER RESISTANT)	18"
	GFCI RATED SINGLE RECEPT	18"
	ISOLATED GROUND SINGLE RECEPT	18"
	SWITCHED SINGLE RECEPT	18"
	DUPLEX RECEPT ("EM" = EMERGENCY, "HG" = HOSPITAL GRADE, "U" = CONNECTED TO UPS "TR" = TAMPER RESISTANT)	18"
	GFCI RATED DUPLEX RECEPT ("WP" = WEATHER RESISTANT)	18"
	ISOLATED GROUND DUPLEX RECEPT	18"
	SWITCHED DUPLEX RECEPT (SPLIT-WIRE)	18"
	USB/DUPLEX RECEPT	18"
	ABOVE COUNTERTOP DUPLEX RECEPT, MOUNT 4" ABOVE BACKSPLASH OR 44"	
	ABOVE COUNTERTOP GFCI RATED DUPLEX RECEPT, MOUNT 4" ABOVE BACKSPLASH OR 44"	
	FOURPLEX RECEPT ("EM" = EMERGENCY, "HG" = HOSPITAL GRADE, "U" = CONNECTED TO UPS)	18"
	GFCI RATED FOURPLEX RECEPT	18"
	ISOLATED GROUND FOURPLEX RECEPT	18"
	SWITCHED FOURPLEX RECEPT (SPLIT-WIRE)	18"
	ABOVE COUNTERTOP FOURPLEX RECEPT, MOUNT 4" ABOVE BACKSPLASH OR 44"	
	SPECIAL RECEPT OR CONNECTION. PROVIDE DIRECT POWER CONNECTION OR MATCHING RECEPTACLE AS REQUIRED, COORDINATE W/ EQUIPMENT MANUFACTURER	18"
	MULTIOUTLET WIREMOLD ASSEMBLY, MOUNT 4" ABOVE BACKSPLASH OR PROVIDE POWER RECEPTS AS SHOWN ON DRAWING	46"
	FLOOR RECEPT (DUPLEX SHOWN)	
F	COMBO POWER/DATA FLOOR-BOX (DUPLEX SHOWN) - REFER TO TN DRAWINGS FOR DETAILS REGARDING DATA	
PT	COMBO POWER/DATA POKE-THRU (DUPLEX SHOWN) - REFER TO TN DRAWINGS FOR DETAILS REGARDING DATA	
	CEILING RECEPT (DUPLEX SHOWN)	
J	JUNCTION BOX (FLOOR, WALL, CEILING SHOWN RESPECTIVELY)	AS NOTED
	PUSH BUTTON STATION	46"
D	FLOOR MOUNT FURNITURE CONNECTION -POWER AND DATA	
D	WALL MOUNT FURNITURE CONNECTION -POWER AND DATA	18"
M	MOTOR HORSEPOWER RATED SWITCH	46"
F	FUSED SWITCH	46"
	SAFETY DISCONNECT SWITCH (NON-FUSED)	72"
	SAFETY DISCONNECT SWITCH (FUSED)	72"
	COMBO MOTOR STARTER/DISCONNECT SWITCH (FUSED)	72"
VFD	VARIABLE FREQUENCY DRIVE	
	SINGLE PHASE MOTOR (SEE SCHEDULE)	
	THREE PHASE MOTOR (SEE SCHEDULE)	
	CIRCUIT BREAKER PANEL	72"
	POWER OR DISTRIBUTION PANEL	72"
	SPECIAL CABINET (TYPE DENOTED)	72"
T	TRANSFORMER (TYPE DENOTED)	

SECURITY SYMBOL LEGEND

SYMBOL	DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)
DC	DOOR CONTACT	84"
CR	CARD READER	46"
KP	KEYPAD	46"
ES	ELECTRIC STRIKE	46"
EL	ELECTRIC LATCH	46"
ET	ELECTRIC TRANSFER	46"
ML	MAGNETIC LOCK	84"
RE	REQUEST TO EXIT	84"
MS	MOTION SENSOR	84"
GB	GLASS BREAK	
	WALL CCTV CAMERA	90"
HTR PTZ	WALL CCTV CAMERA - DOME, HEATER, PAN-TILT-ZOOM	90"
	CEILING CCTV CAMERA	
HTR PTZ	CEILING CCTV CAMERA - DOME, HEATER, PAN-TILT-ZOOM	

NOTE: SYMBOLS REPRESENT EQUIPMENT SPECIFIED BY OTHERS, THE SCOPE OF WORK REPRESENTED IN THESE DRAWINGS INCLUDES DEVICE BACKBOX AND 3/4" CONDUIT FROM BACKBOX TO ABOVE ACCESSIBLE CEILING TERMINATED WITH INSULATED BUSHING (UNLESS NOTED OTHERWISE)

GENERAL ELECTRICAL NOTES

1. ALL WORK TO COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS ADOPTED BY THE AHJ FOR THE PROJECT LOCATION, INCLUDING (NOT LIMITED TO) ELECTRICAL CODES, BUILDING CODES, ENERGY CODES, ETC.
2. COORDINATE INSTALLATION WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REFLECTED CEILING PLANS FOR DEVICE AND FIXTURE PLACEMENT, AS WELL AS FIRE RATED PARTITIONS, EXPANSION JOINTS, ETC.
3. COORDINATE INSTALLATION OF MECHANICAL EQUIPMENT POWER CONNECTIONS WITH MECHANICAL/PLUMBING PLANS, SCHEDULES AND PRODUCT DATA SUBMITTALS.
4. COORDINATE INSTALLATION WITH VENDOR/ CONTRACTOR SHOP DRAWINGS WHERE APPROPRIATE.
5. FIELD COORDINATE INSTALLATION WITH THE INSTALLATION OF OTHER TRADES TO AVOID CLASHES AND CONFLICTS.
6. WHERE MOUNTING HEIGHTS ARE SHOWN, THEY ARE TO BE CONSIDERED TO BE TO THE CENTER OF THE DEVICE, UNLESS NOTED OTHERWISE.
7. ALL CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY OR PART OF A LISTED CABLE ASSEMBLY SUITABLE FOR THE INSTALLED PURPOSE AND LOCATION, AND ALLOWED BY PROJECT SPECIFICATIONS.
8. ALL CABLES AND CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. CABLES ABOVE ACCESSIBLE CEILINGS MAY BE ROUTED IN CABLE SUPPORT HOOKS/RINGS. CABLES TO BE ROUTED IN CABLE TRAY WHERE SHOWN.
9. FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS, USE #10 AWG CONDUCTORS FOR BRANCH CIRCUITS LONGER THAN 75 FEET AND #8 AWG CONDUCTORS FOR BRANCH CIRCUITS LONGER THAN 150 FEET, UNO. THIS SHALL BE REQUIRED FOR THE ENTIRE LENGTH OF THE CIRCUIT.
10. FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS, USE #10 AWG CONDUCTORS FOR BRANCH CIRCUITS LONGER THAN 150 FEET, UNO. THIS SHALL BE REQUIRED FOR THE ENTIRE LENGTH OF THE CIRCUIT.
11. WHERE CONFLICTS EXIST IN DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS, ISSUE REQUEST FOR INTERPRETATION TO DESIGN TEAM FOR CLARIFICATION PRIOR TO INSTALLATION.
12. TV OUTLETS, VOLUME CONTROLS, TELEPHONE OUTLETS, DATA OUTLETS, AND FIRE ALARM DEVICES SHALL CONSIST OF A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING. VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED.
13. FURNISH AND INSTALL CONDUIT FROM BACK BOXES FOR THE FOLLOWING DEVICES INTO THE ACCESSIBLE CEILING SPACE IN THE CORRIDOR, UNLESS NOTED OTHERWISE:

3/4"C	TV OUTLETS
3/4"C	VOLUME CONTROLS
3/4"C	TELEPHONE OUTLETS
3/4"C	INFORMATION OUTLETS
3/4"C	FIRE ALARM DEVICES

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
D. HERSCHER
DRAWN BY
G. GISCHIA
CHECKED BY
D. HERSCHER

ELECTRICAL NOTES AND ABBREVIATIONS
E001

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E001 - ELECTRICAL NOTES AND ABBREVIATIONS
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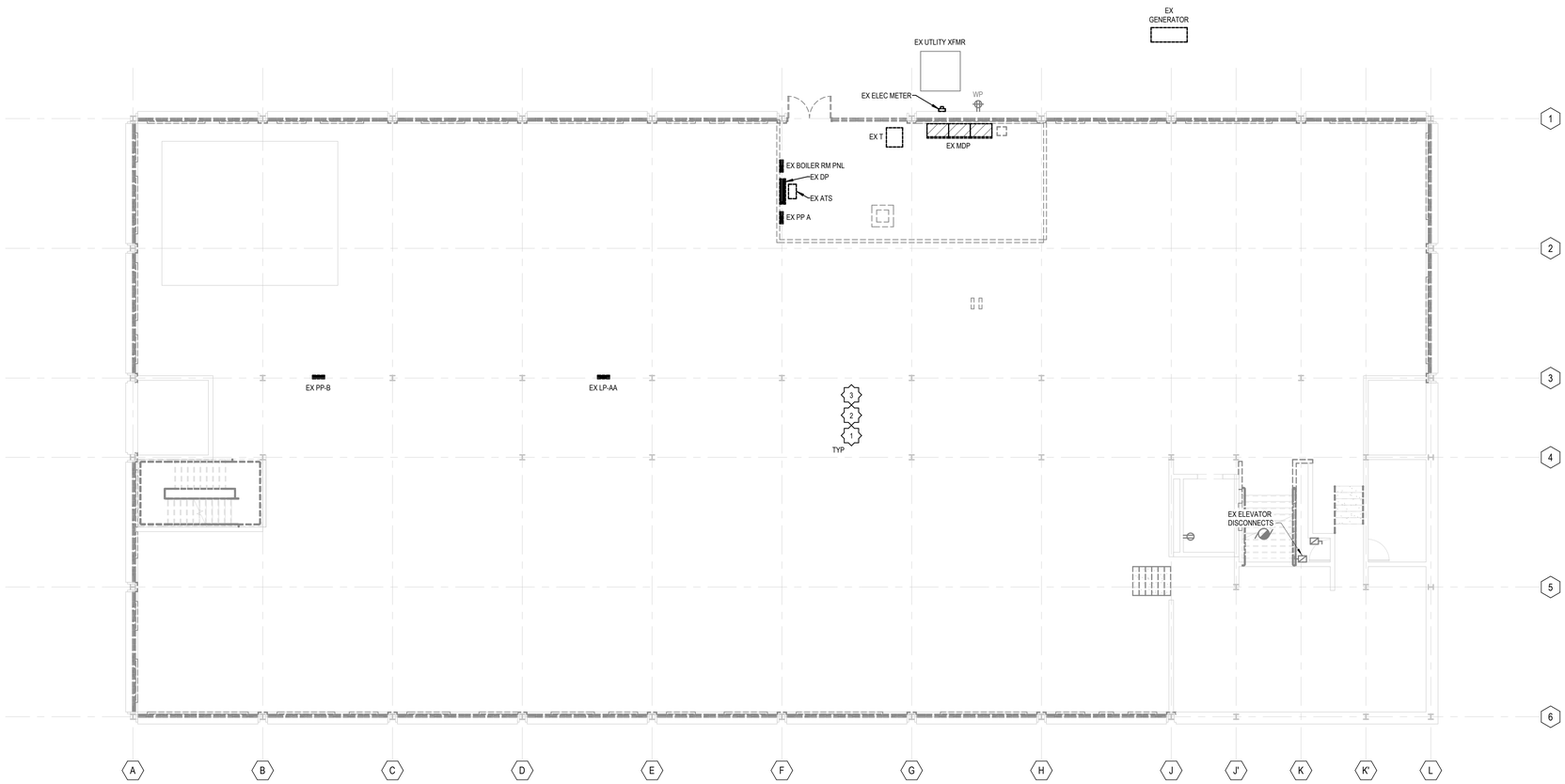
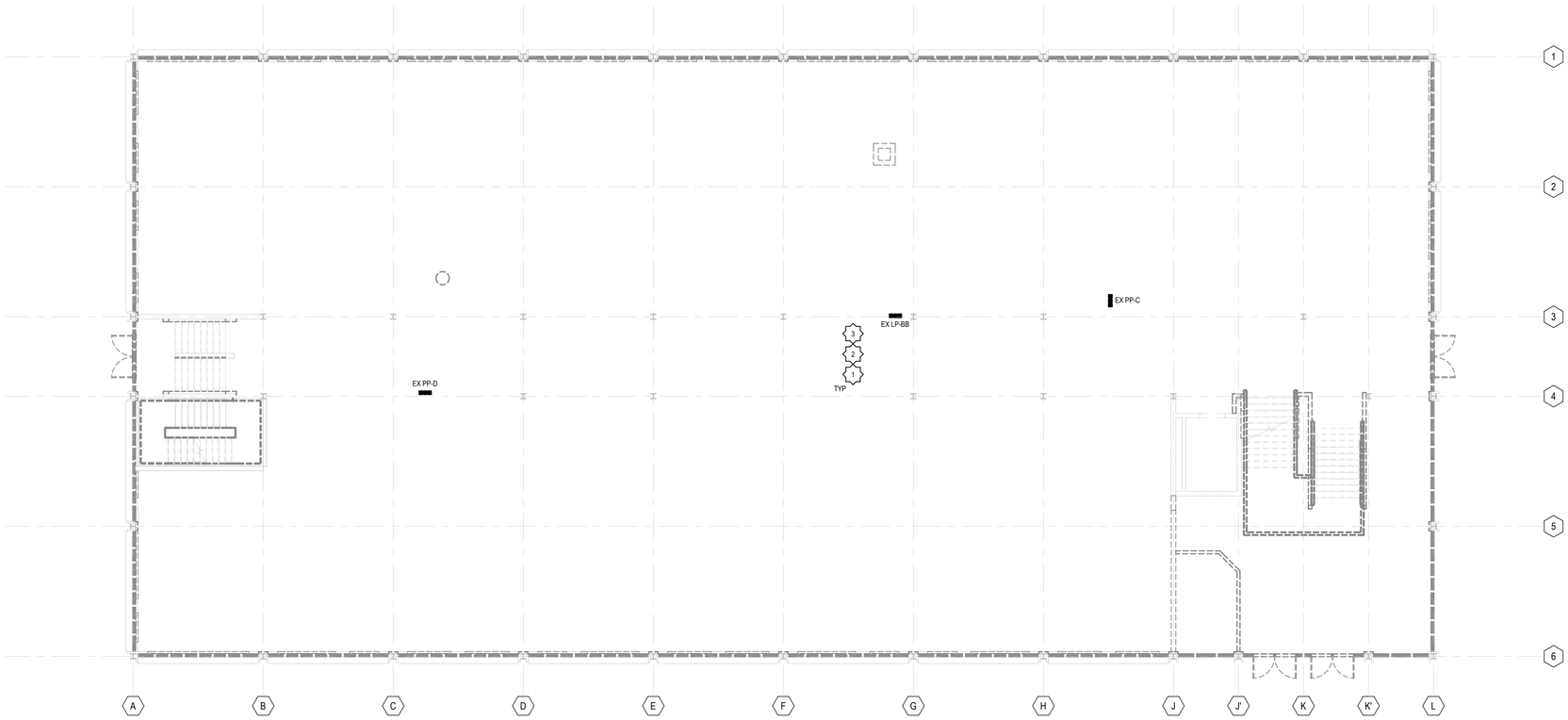


FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"



SECOND FLOOR DEMOLITION PLAN

1/8" = 1'-0"

DEMOLITION GENERAL NOTES

A. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

B. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

C. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

D. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

E. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

G. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

H. PATCH OVER ALL EXISTING UNUSED OPENINGS.

I. PROVIDE, INSTALL, MAINTAIN, AND REMOVE ALL TEMPORARY POWER AND LIGHTING REQUIRED FOR THE ENTIRE CONSTRUCTION PERIOD

DEMOLITION KEYNOTES

1. ALL EXISTING POWER AND DATA RECEPTACLES TO BE DEMOLISHED UNLESS SHOWN ON PLAN AS EXISTING. REMOVE ALL CONDUIT AND WIRING OF DEMOLISHED RECEPTACLE BACK TO PANEL.
2. ALL EXISTING LIGHTING FIXTURES AND LIGHTING CONTROL DEVICES TO BE DEMOLISHED UNLESS SHOWN ON PLAN AS EXISTING. REMOVE ALL CONDUIT AND WIRING OF DEMOLISHED FIXTURE OR DEVICE BACK TO PANEL.
3. ALL EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO BE DEMOLISHED UNLESS SHOWN ON PLAN AS EXISTING. REMOVE ALL CONDUIT AND WIRING OF DEMOLISHED DEVICES AND EQUIPMENT.

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ISSUANCE
10/13/2026 BIDS

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PROJECT MANAGER
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ELECTRICAL DEMOLITION PLANS
ED101

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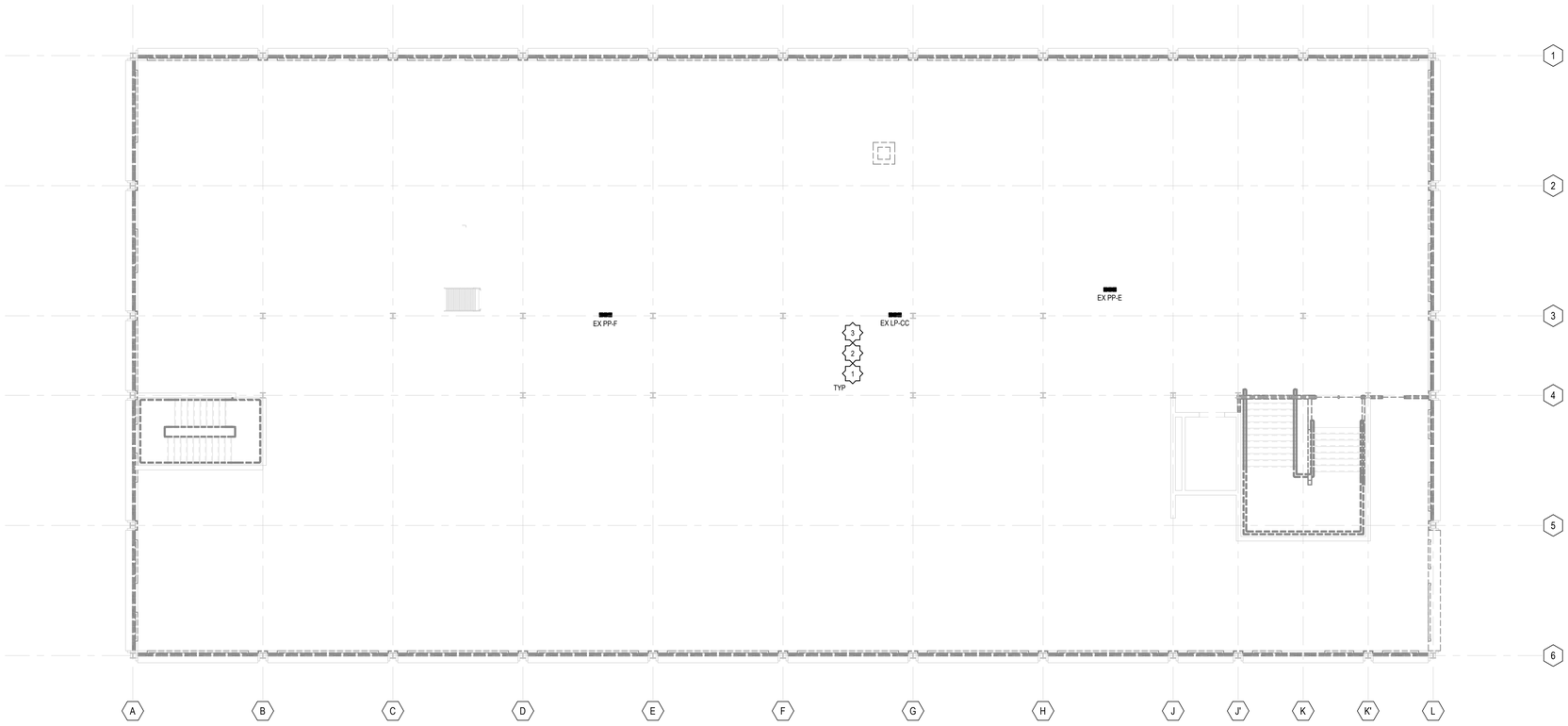
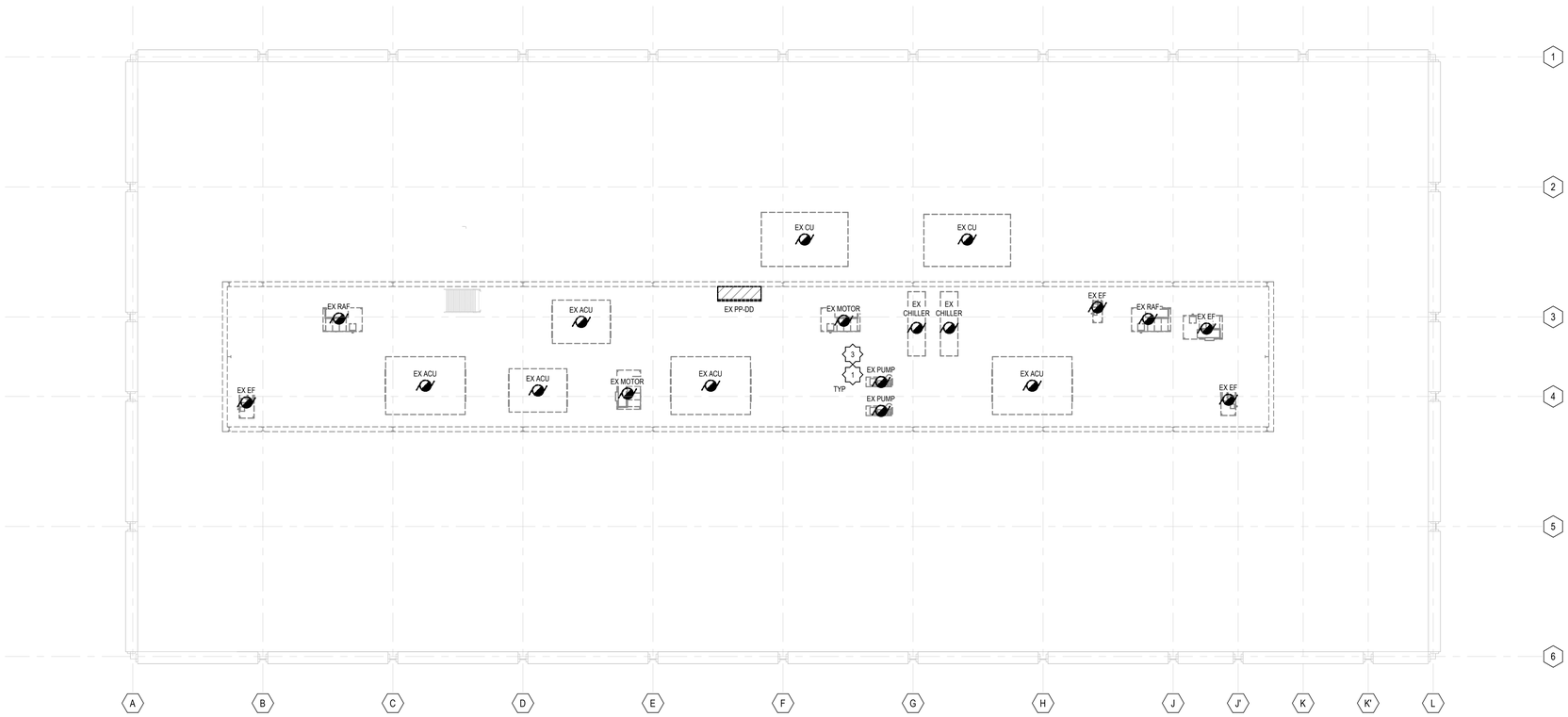


THIRD FLOOR DEMOLITION PLAN
1/8" = 1'-0"



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

DEMOLITION GENERAL NOTES

A. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

B. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

C. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

D. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

E. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

G. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

H. PATCH OVER ALL EXISTING UNUSED OPENINGS.

I. PROVIDE, INSTALL, MAINTAIN, AND REMOVE ALL TEMPORARY POWER AND LIGHTING REQUIRED FOR THE ENTIRE CONSTRUCTION PERIOD

DEMOLITION KEYNOTES

1. ALL EXISTING POWER AND DATA RECEPTACLES TO BE DEMOLISHED UNLESS SHOWN ON PLAN AS EXISTING. REMOVE ALL CONDUIT AND WIRING OF DEMOLISHED RECEPTACLE BACK TO PANEL.
2. ALL EXISTING LIGHTING FIXTURES AND LIGHTING CONTROL DEVICES TO BE DEMOLISHED UNLESS SHOWN ON PLAN AS EXISTING. REMOVE ALL CONDUIT AND WIRING OF DEMOLISHED FIXTURE OR DEVICE BACK TO PANEL.
3. ALL EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO BE DEMOLISHED UNLESS SHOWN ON PLAN AS EXISTING. REMOVE ALL CONDUIT AND WIRING OF DEMOLISHED DEVICES AND EQUIPMENT.

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ELECTRICAL DEMOLITION PLANS
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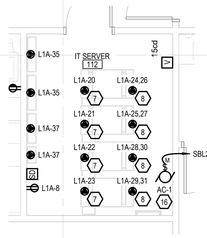
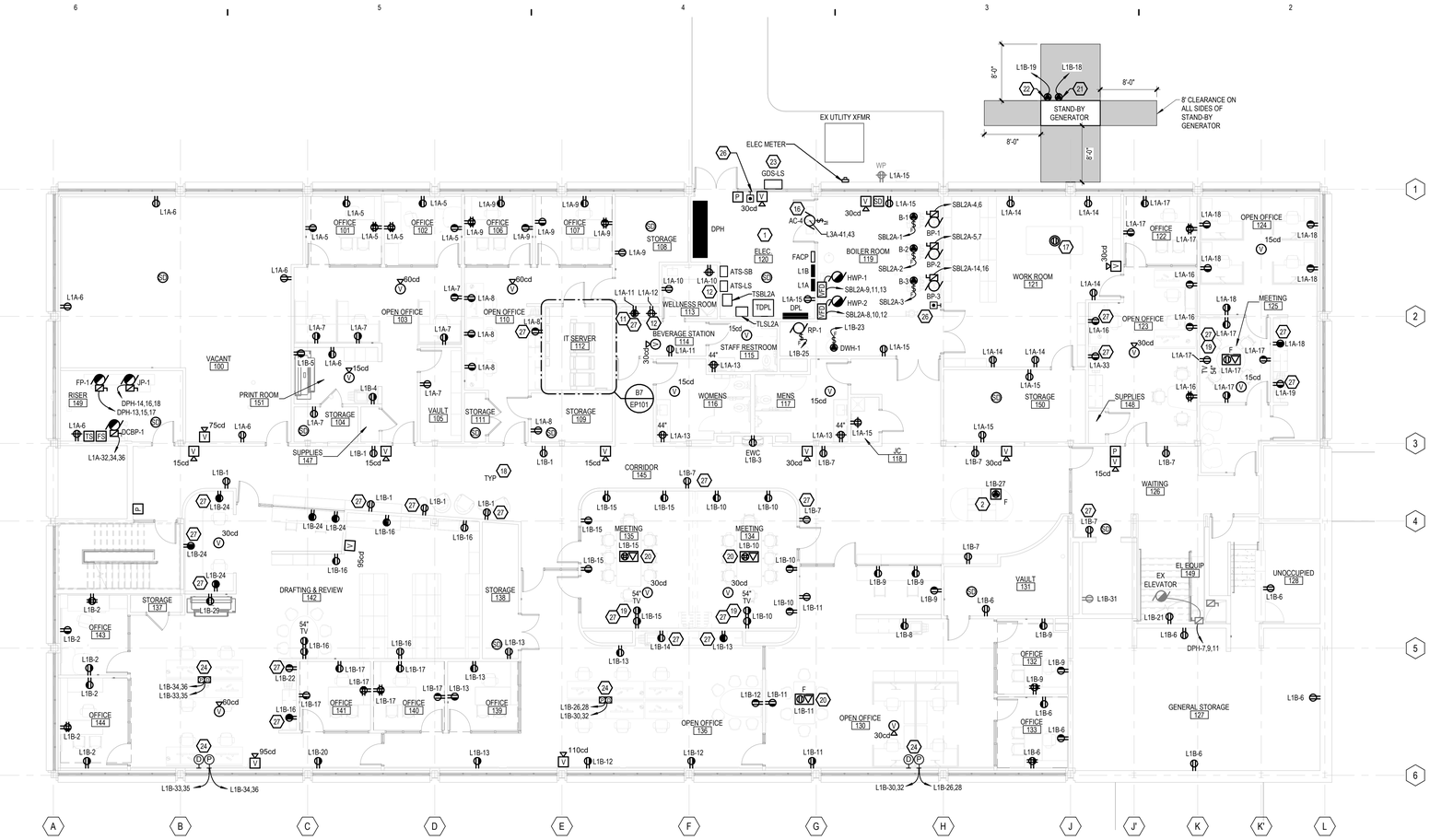


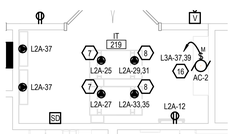
B7 112 - IT SERVER (ENLARGED)

1/4" = 1'-0"



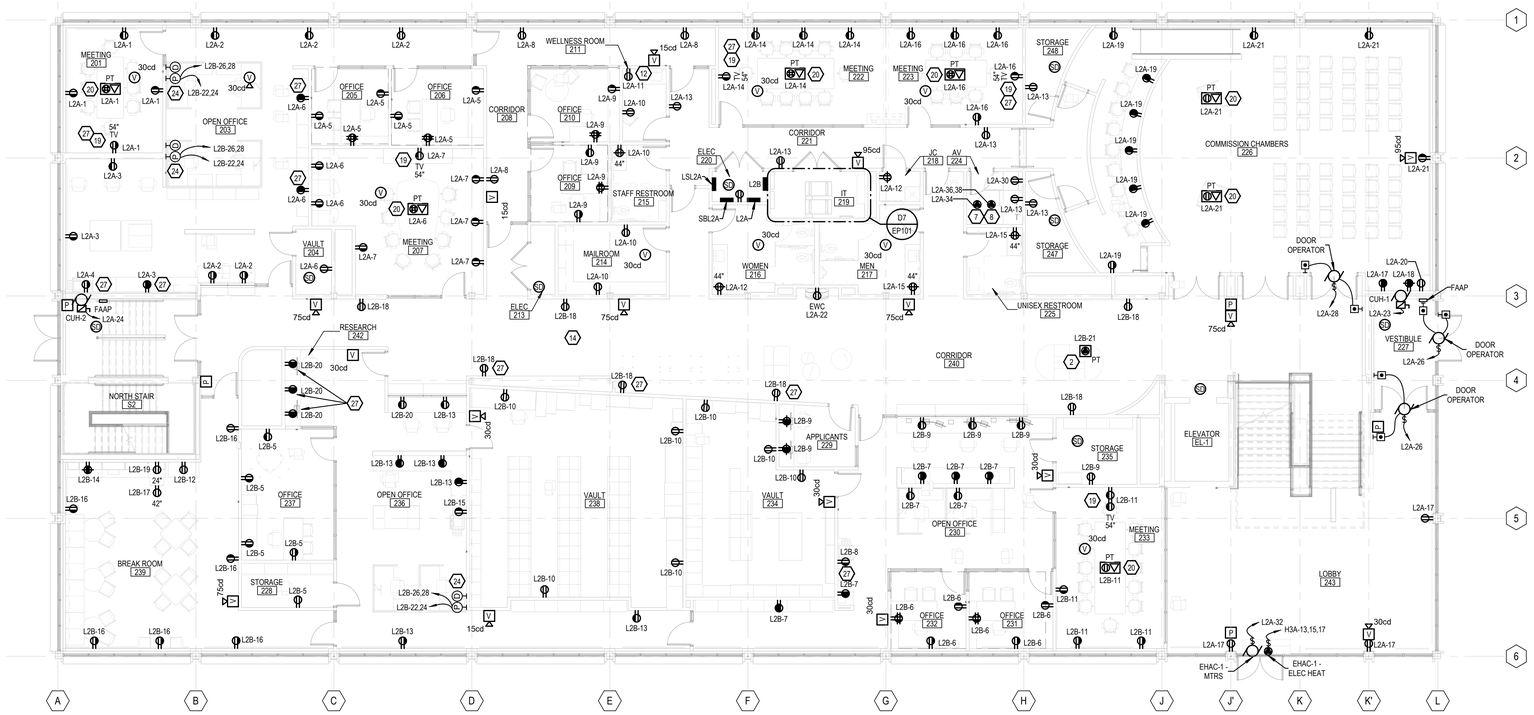
FIRST FLOOR POWER PLAN

1/8" = 1'-0"



D7 219 - IT (ENLARGED)

1/4" = 1'-0"



SECOND FLOOR POWER PLAN

1/8" = 1'-0"

POWER GENERAL NOTES

A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.

B. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.

C. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED REQUIREMENTS LISTED IN SPECIFICATIONS.

D. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.

E. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.

F. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

G. AT LEAST 50% OF ALL 125 V, 15 AND 20 AMP RECEPTACLES TO BE AUTOMATICALLY CONTROLLED BY LIGHTING CONTROL OCCUPANCY DEVICE IN ALL PRIVATE OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR PRINTING AND/OR COPYING FUNCTIONS, BREAK ROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS PER ASHRAE 90.1 SECTION 8.4.2.

H. AT LEAST 25% OF BRANCH CIRCUIT FEEDERS INSTALLED TO BE AUTOMATICALLY CONTROLLED BY LIGHTING CONTROL OCCUPANCY DEVICE FOR MODULAR FURNITURE NOT SHOWN ON THE CONSTRUCTION DOCUMENTS PER ASHRAE 90.1 SECTION 8.4.2.

I. ALL POWER RECEPTACLES TO BE GFCI PROTECTED WHEN LOCATED IN BATHROOMS, OUTDOORS, ROOFTOPS, CRAWL SPACES, BASEMENTS, KITCHENS, WITHIN 6' OF OUTER EDGE OF SINK OR BATHTUB, LAUNDRY AREAS, LOCKER ROOMS WITH ASSOCIATED SHOWERING FACILITIES, INDOOR DAMP AND WET LOCATIONS PER NEC SECTION 210.8.B.

J. ALL BRANCH CIRCUITS TO BE GFCI PROTECTED WHEN SUPPLYING SPECIFIC APPLIANCES SUCH AS AUTOMATIC VACUUM MACHINES, DRINKING WATER COOLERS AND BOTTLE FILL STATIONS, VENDING MACHINES, SUMP PUMPS, DISHWASHERS, ELEC RANGES, OVENS, REFRIGERATORS, COUNTER MOUNTED COOKING UNITS, COFFEE MACHINES, CLOTHES DRYERS, MICROWAVE OVENS PER NEC 210.8.D.

POWER KEYNOTES

1. ELECTRICAL ROOM DOOR TO BE EQUIPPED WITH PANIC HARDWARE. SEE DOOR HARDWARE INFORMATION IN ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
2. SINGLE CIRCUIT FURNITURE FEED FOR LOUNGE FURNITURE. REFER MANUFACTURER FOR EXACT POWER REQUIREMENTS.
3. NOT USED.
4. NOT USED
5. PROVIDE FURNITURE FEED FROM WALL FOR BOTH POWER AND DATA. DUPLEX RECEPTACLES IN FURNITURE SYSTEMS TO BE SPLIT CONTROLLED WIRELESS PLUG LOAD RECEPTACLES. RECEPTACLES TO BE CONTROLLED BY OCCUPANCY SENSORS IN SPACE. FOR ANY DATA REQUIREMENTS, REFER TO TN DRAWINGS.
6. PROVIDE POWER/DATA FLOOR BOX AT CENTER OF CONFERENCE/MEETING ROOM. FLOORBOX TO HAVE AUTOMATICALLY CONTROLLED RECEPTACLES INSTALLED
7. MOUNT L5-20 RECEPTACLE TO CABLE RUNWAY ABOVE DATA RACK.
8. MOUNT L6-30 RECEPTACLE TO CABLE RUNWAY ABOVE DATA RACK.
9. NOT USED.
10. TRANSFORMERS TSBL2A AND TLSL2A TO BE STACKED IN ROOM (220 - ELEC).
11. PROVIDE POWER FOR COFFEE MAKER.
12. PROVIDE POWER FOR MINI FRIDGE.
13. PROVIDE POWER FOR CLERK'S MISCELLANEOUS EQUIPMENT (NEXT PHASE COORDINATION).
14. NOT USED.
15. NOT USED.
16. MINI-SPLIT POWERED BY CONDENSING UNIT LOCATED ON ROOF
17. RETRACTABLE POWER CORD SHALL BE PROVIDED ABOVE WORK STATION
18. BLACK RECEPTACLES SHALL BE INSTALLED IN CORRIDORS
19. TV POWER/DATA BOX TO BE CENTERED ON TV LOCATION. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT DIMENSIONS. FOR DETAILS REGARDING DATA, REFER TO TN DRAWINGS.
20. PROVIDE FLOOR BOX OR POKE-THRU FOR BOTH POWER AND DATA. DUPLEX RECEPTACLES IN FLOOR BOXES TO BE SPLIT CONTROLLED RECEPTACLES AND CONTROLLED BY OCCUPANCY SENSORS IN SPACE. FOR ANY DATA REQUIREMENTS, REFER TO TN DRAWINGS.
21. GENERATOR BATTERY CHARGER.
22. GENERATOR BLOCK HEATER.
23. TEMPORARY POWER DOCKING STATION FOR TEMPORARY GENERATOR. COORDINATE EXACT LOCATION OF TEMPORARY POWER DOCKING STATION IN THE FIELD. DOCKING STATION TO BE ACCESSIBLE FOR TEMPORARY GENERATOR. SEE ONE-LINE DIAGRAM FOR MANUFACTURER AND MODEL.
24. PROVIDE (2+2) 4-CIRCUIT FURNITURE FEED EITHER FROM WALL, FLOORBOX OR POKETHRU. 2 CIRCUITS IN EACH 4-CIRCUIT FURNITURE FEED TO BE AUTOMATICALLY CONTROLLED BY OCCUPANCY SENSOR IN SPACE. EACH WORKSTATION TO HAVE HALF CONTROLLED AND HALF NON-CONTROLLED RECEPTACLES. ALL CONTROLLED RECEPTACLES TO BE PERMANENTLY MARKED TO VISUALLY DIFFERENTIATE FROM UNCONTROLLED RECEPTACLES. FOR ANY DATA REQUIREMENTS, REFER TO TN DRAWINGS.
25. NOT USED
26. EMERGENCY BOILER SHUT-DOWN SWITCH.
27. RECEPTACLES INSTALLED ON DARK FINISHES SHALL BE BLACK COLOR.

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ISSUANCE

10/13/2026 BIDS

PROJECT NUMBER
23000001

PROJECT MANAGER
T. FREY

PROFESSIONAL
D. HERSCHER

DRAWN BY
G. GISCHIA

CHECKED BY
D. HERSCHER

POWER PLANS
EP101

24.2.002

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POWER PLANS

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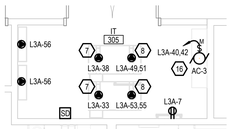
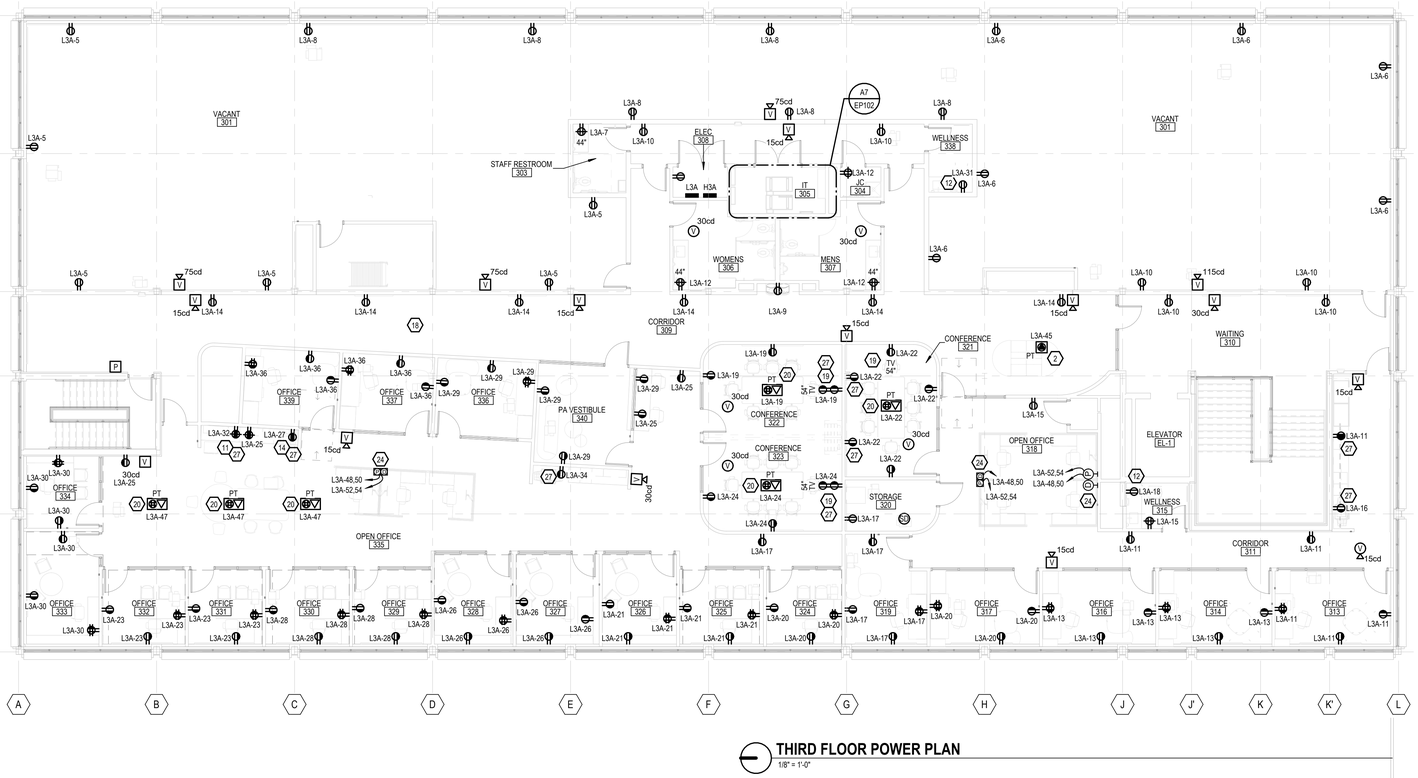


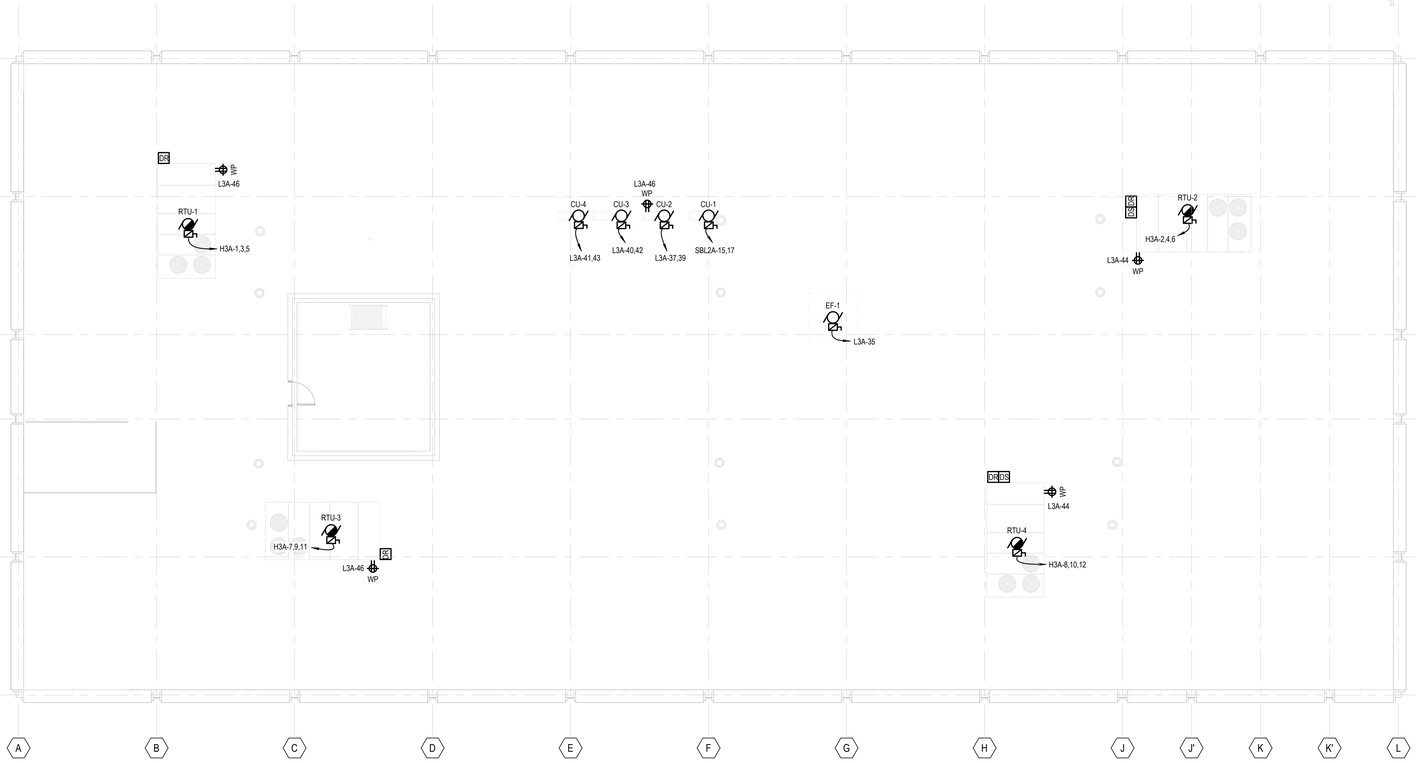
A7 305 - IT (ENLARGED)

1/4" = 1'-0"



THIRD FLOOR POWER PLAN

1/8" = 1'-0"



ROOF POWER PLAN

1/8" = 1'-0"

POWER GENERAL NOTES

A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.

B. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.

C. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED REQUIREMENTS LISTED IN SPECIFICATIONS.

D. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.

E. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.

F. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

G. AT LEAST 50% OF ALL 125 V, 15 AND 20 AMP RECEPTACLES TO BE AUTOMATICALLY CONTROLLED BY LIGHTING CONTROL OCCUPANCY DEVICE IN ALL PRIVATE OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR PRINTING AND/OR COPYING FUNCTIONS, BREAK ROOMS, CLASSROOMS, AND INDIVIDUAL WORKSTATIONS PER ASHRAE 90.1 SECTION 8.4.2.

H. AT LEAST 25% OF BRANCH CIRCUIT FEEDERS INSTALLED TO BE AUTOMATICALLY CONTROLLED BY LIGHTING CONTROL OCCUPANCY DEVICE FOR MODULAR FURNITURE NOT SHOWN ON THE CONSTRUCTION DOCUMENTS PER ASHRAE 90.1 SECTION 8.4.2.

I. ALL POWER RECEPTACLES TO BE GFCI PROTECTED WHEN LOCATED IN BATHROOMS, OUTDOORS, ROOFTOPS, CRAWL SPACES, BASEMENTS, KITCHENS, WITHIN 6' OF OUTER EDGE OF SINK OR BATHTUB, LAUNDRY AREAS, LOCKER ROOMS WITH ASSOCIATED SHOWERING FACILITIES, INDOOR DAMP AND WET LOCATIONS PER NEC SECTION 210.8.B.

J. ALL BRANCH CIRCUITS TO BE GFCI PROTECTED WHEN SUPPLYING SPECIFIC APPLIANCES SUCH AS AUTOMATIC VACUUM MACHINES, DRINKING WATER COOLERS AND BOTTLE FILL STATIONS, VENDING MACHINES, SUMP PUMPS, DISHWASHERS, ELEC RANGES, OVENS, REFRIGERATORS, COUNTER MOUNTED COOKING UNITS, COFFEE MACHINES, CLOTHES DRYERS, MICROWAVE OVENS PER NEC 210.8.D.

POWER KEYNOTES

1. ELECTRICAL ROOM DOOR TO BE EQUIPPED WITH PANIC HARDWARE. SEE DOOR HARDWARE INFORMATION IN ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
2. SINGLE CIRCUIT FURNITURE FEED FOR LOUNGE FURNITURE. REFER MANUFACTURER FOR EXACT POWER REQUIREMENTS.
3. NOT USED.
4. NOT USED
5. PROVIDE FURNITURE FEED FROM WALL FOR BOTH POWER AND DATA. DUPLEX RECEPTACLES IN FURNITURE SYSTEMS TO BE SPLIT CONTROLLED WIRELESS PLUG LOAD RECEPTACLES. RECEPTACLES TO BE CONTROLLED BY OCCUPANCY SENSORS IN SPACE. FOR ANY DATA REQUIREMENTS, REFER TO TN DRAWINGS.
6. PROVIDE POWER/DATA FLOOR BOX AT CENTER OF CONFERENCE/MEETING ROOM. FLOORBOX TO HAVE AUTOMATICALLY CONTROLLED RECEPTACLES INSTALLED
7. MOUNT L5-20 RECEPTACLE TO CABLE RUNWAY ABOVE DATA RACK.
8. MOUNT L6-30 RECEPTACLE TO CABLE RUNWAY ABOVE DATA RACK.
9. NOT USED.
10. TRANSFORMERS TSBL2A AND TLSL2A TO BE STACKED IN ROOM (220 - ELEC).
11. PROVIDE POWER FOR COFFEE MAKER.
12. PROVIDE POWER FOR MINI FRIDGE.
13. PROVIDE POWER FOR CLERK'S MISCELLANEOUS EQUIPMENT (NEXT PHASE COORDINATION).
14. NOT USED.
15. NOT USED.
16. MINI-SPLIT POWERED BY CONDENSING UNIT LOCATED ON ROOF
17. RETRACTABLE POWER CORD SHALL BE PROVIDED ABOVE WORK STATION
18. BLACK RECEPTACLES SHALL BE INSTALLED IN CORRIDORS
19. TV POWER/DATA BOX TO BE CENTERED ON TV LOCATION. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT DIMENSIONS. FOR DETAILS REGARDING DATA, REFER TO TN DRAWINGS.
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21. GENERATOR BATTERY CHARGER.
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23. TEMPORARY POWER DOCKING STATION FOR TEMPORARY GENERATOR. COORDINATE EXACT LOCATION OF TEMPORARY POWER DOCKING STATION IN THE FIELD. DOCKING STATION TO BE ACCESSIBLE FOR TEMPORARY GENERATOR. SEE ONE-LINE DIAGRAM FOR MANUFACTURER AND MODEL.
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25. NOT USED
26. EMERGENCY BOILER SHUT-DOWN SWITCH.
27. RECEPTACLES INSTALLED ON DARK FINISHES SHALL BE BLACK COLOR.

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ISSUANCE

10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
D. HERSCHER
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G. GISCHIA
CHECKED BY
D. HERSCHER

POWER PLANS

EP102

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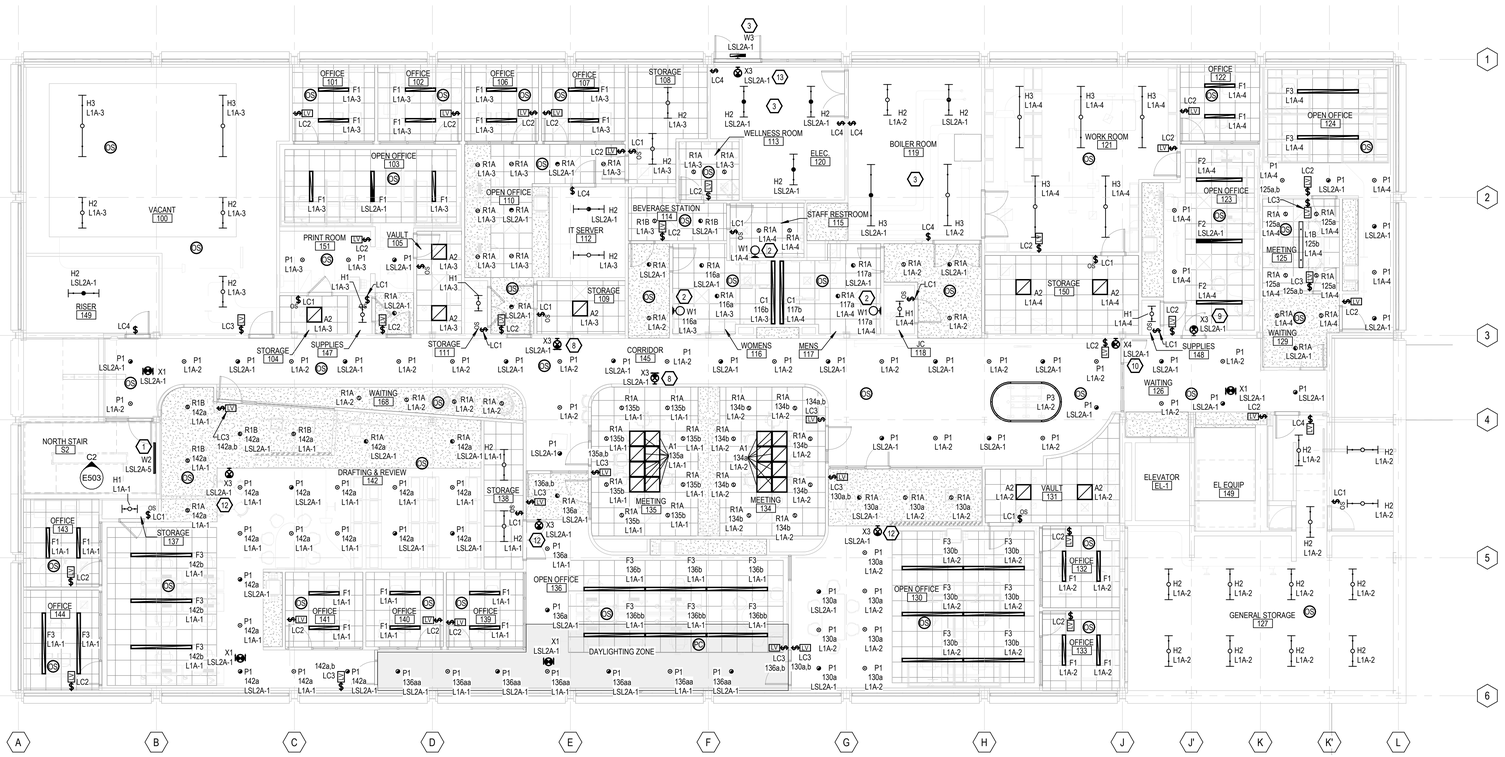
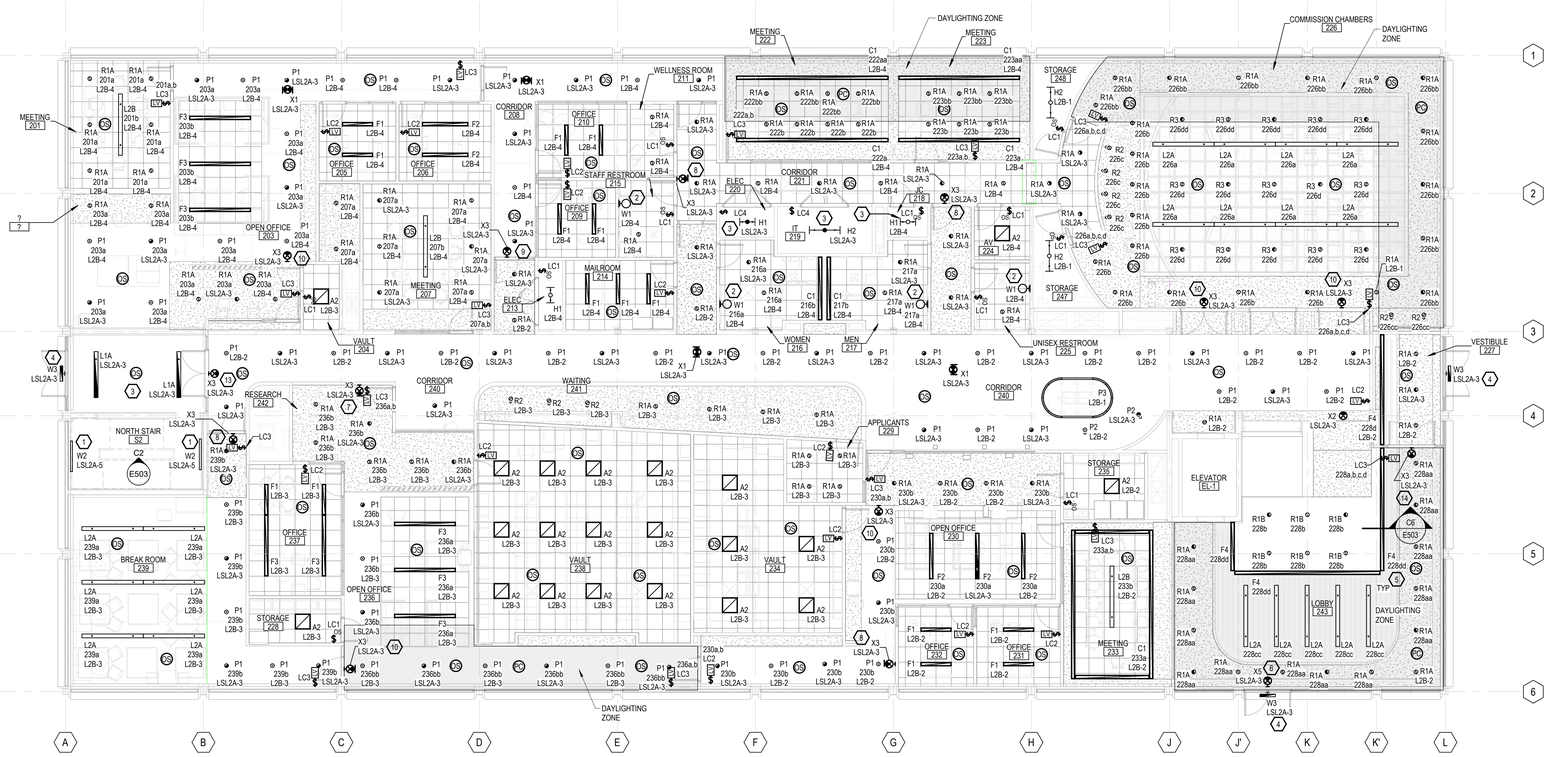


FIRST FLOOR LIGHTING PLAN

1/8" = 1'-0"



SECOND FLOOR LIGHTING PLAN

1/8" = 1'-0"

LIGHTING GENERAL NOTES

A. ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.

B. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.

C. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.

D. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

E. ALL EMERGENCY AND EXIT LIGHTING WITH INTEGRAL BATTERIES TO BE FED FROM AN UNSWITCHED LEG OF THE BRANCH CIRCUIT FEEDING LIGHTING IN THE SAME SPACE. BATTERY TO HAVE CAPACITY FOR 90 MINUTES OF BACK-UP POWER.

F. REFER TO LIGHTING CONTROL SCHEDULE FOR LIGHT FIXTURE CIRCUIT IF NOT SHOWN ON PLAN.

LIGHTING KEYNOTES

1. FOR MOUNTING HEIGHTS OF W2 FIXTURES IN S2 - NORTH STAIR REFER TO ELEVATION C2 ON SHEET E503.
2. (2) W1 FIXTURES AT THIS LOCATION. FIXTURES ARE STACKED IN PLAN AND MOUNTED AT DIFFERENT HEIGHTS. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS.
3. LIGHTING FIXTURE TO BE MOUNTED AT 8' 7" AFF.
4. LIGHTING FIXTURE TO BE MOUNTED AT 9' 0" AFF.
5. REFER TO SECTION C8 ON SHEET E503 FOR MOUNTING HEIGHT OF F4 LIGHT FIXTURE.
6. EXIT SIGN TO BE MOUNTED IN VERTICAL MULLION. EXIT SIGN TO BE MOUNTED AT 11' AFF TO THE MIDDLE OF FIXTURE.
7. EXIT SIGN TO BE MOUNTED AT 7' 0" AFF TO THE MIDDLE OF FIXTURE.
8. EXIT SIGN TO BE MOUNTED AT 7' 6" AFF TO THE MIDDLE OF FIXTURE.
9. EXIT SIGN TO BE MOUNTED AT 7' 9" AFF TO THE MIDDLE OF FIXTURE.
10. EXIT SIGN TO BE MOUNTED AT 8' 0" AFF TO THE MIDDLE OF FIXTURE.
11. EXIT SIGN TO BE MOUNTED AT 8' 3" AFF TO THE MIDDLE OF FIXTURE.
12. EXIT SIGN TO BE MOUNTED AT 8' 6" AFF TO THE MIDDLE OF FIXTURE.
13. EXIT SIGN TO BE MOUNTED AT 9' 6" AFF TO THE MIDDLE OF FIXTURE.
14. EXIT SIGN TO BE MOUNTED AT 12' 0" AFF TO THE MIDDLE OF FIXTURE.

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ISSUANCE

10/13/2026 BIDS

PROJECT NUMBER
23000001

PROJECT MANAGER
T. FREY

PROFESSIONAL
D. HERSCHER

DRAWN BY
G. GISCHIA

CHECKED BY
D. HERSCHER

LIGHTING PLANS
EL101

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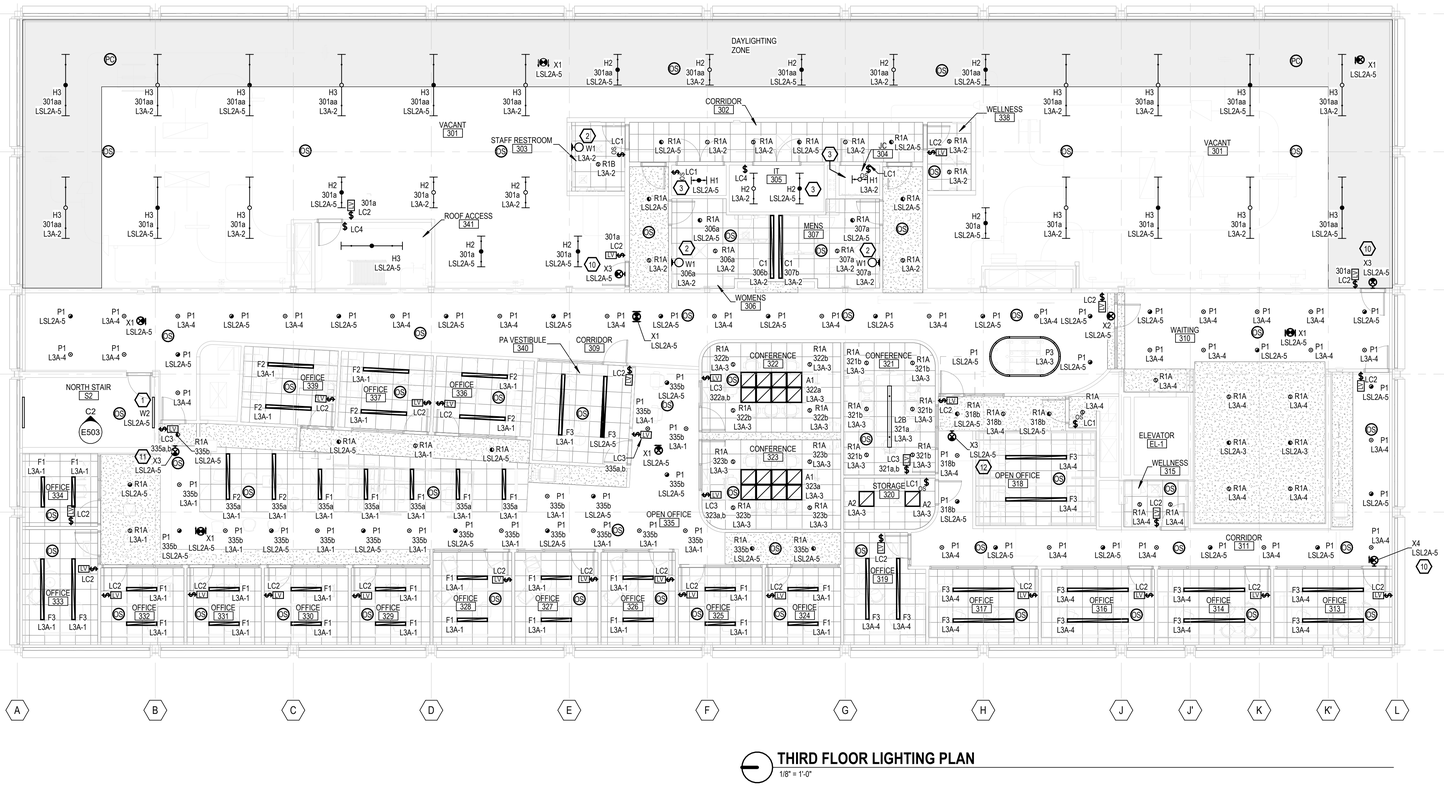

THIRD FLOOR LIGHTING PLAN

1/8" = 1'-0"

LIGHTING GENERAL NOTES

A. ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.

B. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.

C. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.

D. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

E. ALL EMERGENCY AND EXIT LIGHTING WITH INTEGRAL BATTERIES TO BE FED FROM AN UNSWITCHED LEG OF THE BRANCH CIRCUIT FEEDING LIGHTING IN THE SAME SPACE. BATTERY TO HAVE CAPACITY FOR 90 MINUTES OF BACK-UP POWER.

F. REFER TO LIGHTING CONTROL SCHEDULE FOR LIGHT FIXTURE CIRCUIT IF NOT SHOWN ON PLAN.

LIGHTING KEYNOTES

1. FOR MOUNTING HEIGHTS OF W2 FIXTURES IN S2 - NORTH STAIR REFER TO ELEVATION C2 ON SHEET E503.
2. (2) W1 FIXTURES AT THIS LOCATION. FIXTURES ARE STACKED IN PLAN AND MOUNTED AT DIFFERENT HEIGHTS. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS.
3. LIGHTING FIXTURE TO BE MOUNTED AT 8' 7" AFF.
4. LIGHTING FIXTURE TO BE MOUNTED AT 9' 0" AFF.
5. REFER TO SECTION C8 ON SHEET E503 FOR MOUNTING HEIGHT OF F4 LIGHT FIXTURE.
6. EXIT SIGN TO BE MOUNTED IN VERTICAL MULLION. EXIT SIGN TO BE MOUNTED AT 11' AFF TO THE MIDDLE OF FIXTURE.
7. EXIT SIGN TO BE MOUNTED AT 7' 0" AFF TO THE MIDDLE OF FIXTURE.
8. EXIT SIGN TO BE MOUNTED AT 7' 6" AFF TO THE MIDDLE OF FIXTURE.
9. EXIT SIGN TO BE MOUNTED AT 7' 9" AFF TO THE MIDDLE OF FIXTURE.
10. EXIT SIGN TO BE MOUNTED AT 8' 0" AFF TO THE MIDDLE OF FIXTURE.
11. EXIT SIGN TO BE MOUNTED AT 8' 3" AFF TO THE MIDDLE OF FIXTURE.
12. EXIT SIGN TO BE MOUNTED AT 8' 6" AFF TO THE MIDDLE OF FIXTURE.
13. EXIT SIGN TO BE MOUNTED AT 9' 6" AFF TO THE MIDDLE OF FIXTURE.
14. EXIT SIGN TO BE MOUNTED AT 12' 0" AFF TO THE MIDDLE OF FIXTURE.

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T. FREY
PROFESSIONAL
D. HERSCHER
DRAWN BY
G. GISCHIA
CHECKED BY
D. HERSCHER

LIGHTING PLANS

EL102

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LIGHTING PLANS

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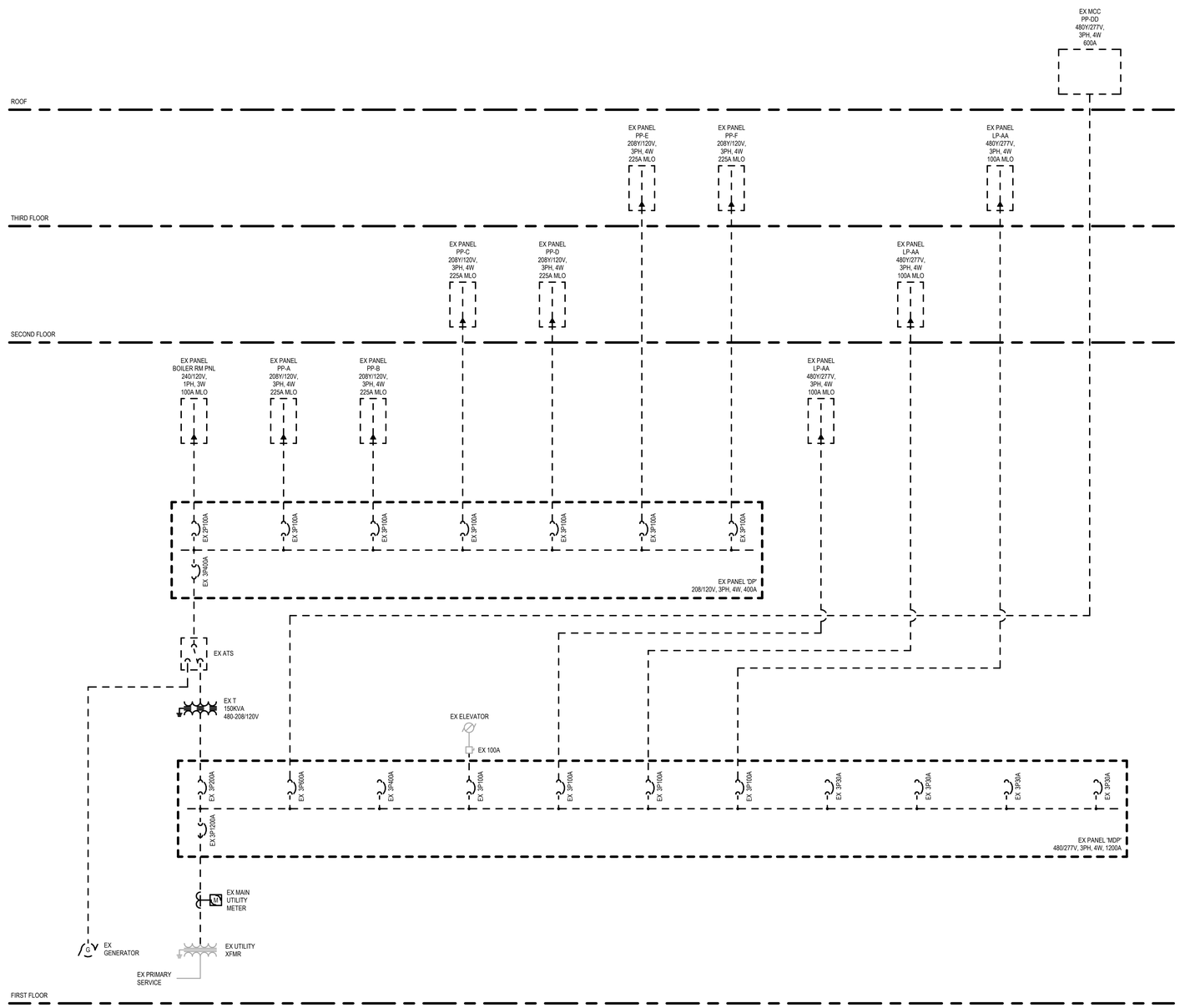
A. ALL DISCREPANCIES BETWEEN INFORMATION DEPICTED IN DRAWINGS AND EXISTING FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

B. AVAILABLE FAULT CURRENT VALUES ARE PRELIMINARY AND SHALL BE USED FOR BIDDING PURPOSES ONLY. FINAL SHORT CIRCUIT CURRENT RATINGS TO BE HIGHER THAN AVAILABLE FAULT CURRENT VALUES FROM POWER SYSTEM STUDY (SEE SPECIFICATION SECTION 26 0573).



1 **ELECTRICAL ONE-LINE DIAGRAM - DEMO**
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ISABELLA COUNTY
ADMINISTRATION BUILDING INTERIOR RENOVATION
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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
D. HERSCHER
DRAWN BY
G. GISCHIA
CHECKED BY
D. HERSCHER

ELECTRICAL ONE-LINE DIAGRAM - DEMO
E501

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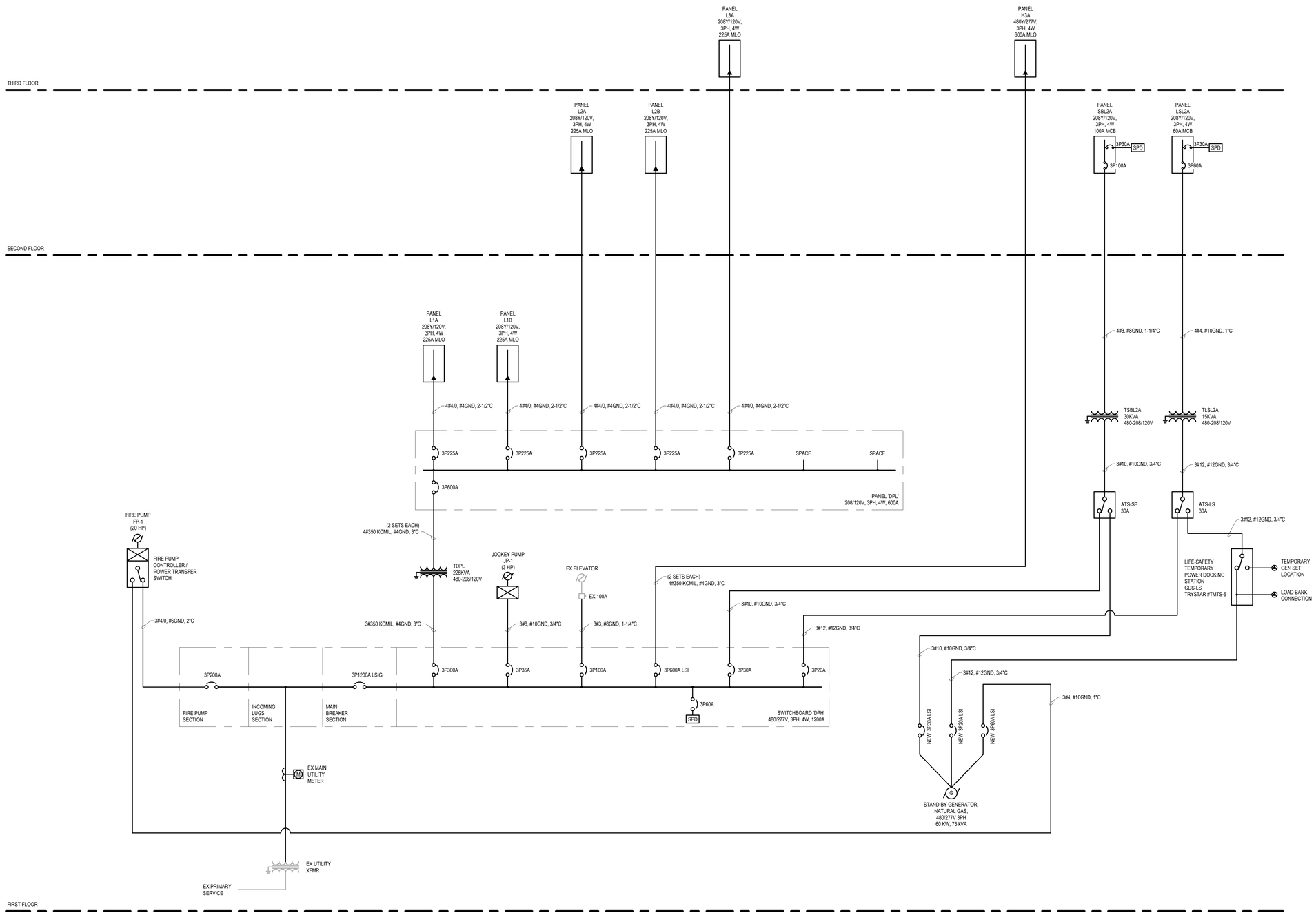

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D. HERSCHER

ELECTRICAL ONE-LINE DIAGRAM - NEW
E502

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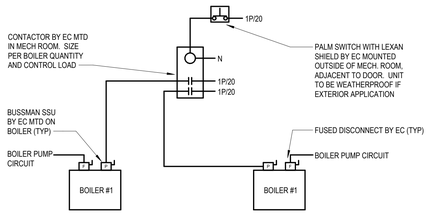

B6 BOILER EMERGENCY SHUT DOWN
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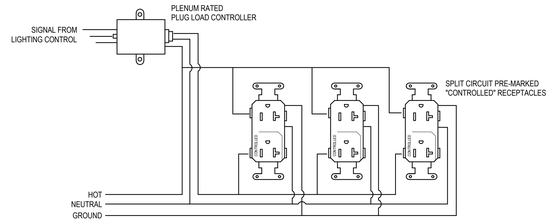

B4 SPLIT CIRCUIT "CONTROLLED" RECEPTACLE DIAGRAM
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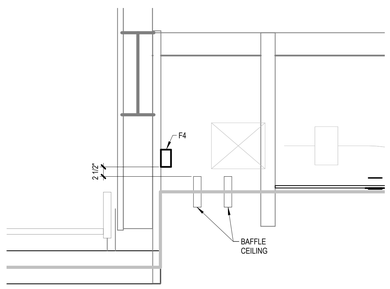
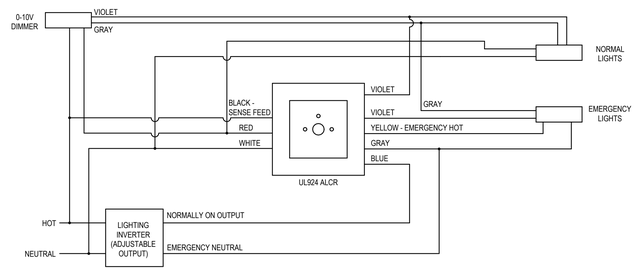


C6 F4 LIGHT FIXTURE MOUNTING DETAIL
3/4" = 1'-0"



C4 UL924 EMERGENCY LIGHTING WIRING DIAGRAM
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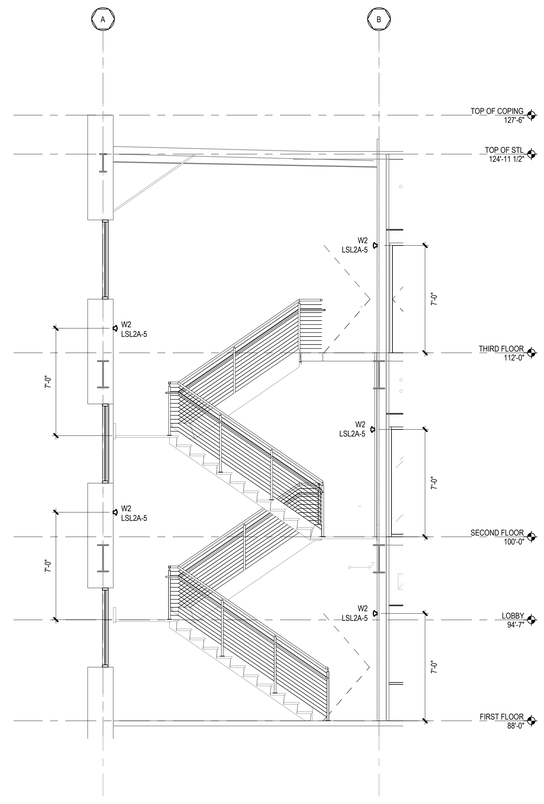

C2 S2 - NORTH STAIR ELEVATION
1/4" = 1'-0"

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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
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PROJECT MANAGER
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D. HERSCHER

ELECTRICAL DETAILS
E503

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ELECTRICAL DETAILS

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMP	VOLT	WATT	MANUFACTURER	CATALOG NUMBER	APPROVED EQUALS	NOTE
A1	RECESSED COFFER STYLE 2X2 LED 3"+ RECESSED PANEL LUMINAIRE, EXTRUDED WOOD FRAME WITH SEAMLESS CORNERS, STEEL BACK PLATE, INTEGRAL GRID MOUNTING CLIPS, 0-10V DIMMABLE TO ≤10%, 5-YEAR WARANTY, 3500K CCT, 80+ CRI MINIMUM, MINIMUM L70 OF 50,000+ HOURS	RECESSED	3500K LED	120 V	19 W	LIGHTLY	VEIL 22-NL-N-GC-50-L-35-Z-Z	NONE	
A2	RECESSED 2X2 LED FLAT PANEL LUMINAIRE, METAL FRAME WITH STEEL BACK PLATE, INTEGRAL GRID MOUNTING CLIPS, SATIN WHITE LENS, 0-10V DIMMABLE TO ≤10%, 5-YEAR WARANTY, 3500K CCT, 80+ CRI MINIMUM, MINIMUM L70 OF 50,000+ HOURS	RECESSED	3500K LED	120 V	16 W	LITHONIA	CPX 2X2 2000LM 80CRI 35K SWL MIN10 ZT MVOLT	COLUMBIA LIGHTING: CBT SERIES METALUX: CGT SERIES HE WILLIAMS: BP SERIES	
C1	CONTINUOUS PERIMETER SLOT LED LUMINAIRE, NOMINAL 2.5 INCH WIDE APERTURE, ALUMINUM HOUSING AND STEEL END CAPS, ACRYLIC LENS, PROVIDE LENGTHS AS SHOWN ON DRAWING FOR CONTINUOUS WALL-TO-WALL INSTALLATION, SUITABLE FOR T-GRID OR HARD CEILING INSTALLATION, HIGH REFLECTANCE OVERALL PAINT FINISH, INTEGRAL DRIVER, 0-10V DIMMING DOWN TO ≤10%, 5-YEAR WARRANTY, 3500K CCT, NOMINAL 375 INITIAL DELIVERED LUMENS PER FOOT, MINIMUM 80+ CRI, CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AS REQUIRED TO ENSURE CONTINUOUS PERIMETER SLOT CONDITION FROM WALL-TO-WALL WHERE WALL FINISH CREATES ENDS OF SLOT, MODIFIED LUMINAIRE WITH DRYWALL TRIM ON WALL-SIDE AND T-BAR GRID ON ROOM-SIDE OF LUMINAIRE, MINIMUM L70 OF 50,000+ HOURS	RECESSED	3500K LED	120 V	SEE NOTES	FOCAL POINT	FSM2PR-ALH-FL2-375LF-35K-1C-UNV-LD1-G-WH-(LENGTHS PER DRAWINGS)	LITECONTROL: MOD SERIES PINNACLE: EDGE EV2 SERIES AXIS: BEAM 2 SERIES	4.2 WATTS/FT
F1	RECESSED LINEAR LED LUMINAIRE, NOMINAL 2 INCH APERTURE, MAXIMUM 3 INCH DEEP HOUSING, 4 FOOT LONG EXTRUDED ALUMINUM HOUSING, SATIN ACRYLIC CONTINUOUS FLUSH LENS, GRID CEILING INSTALLATION, 5-YEAR WARRANTY, 3500K CCT, 0-10V DIMMING TO ≤10%, MINIMUM 80+ CRI, MINIMUM L70 OF 50,000+ HOURS	RECESSED T-GRID	3500K LED	120 V	26 W	MINDSET	NT2-SR-4_0-F-GR-FD-D-8035	EXTANT: HTG-3R-LP SERIES PMC LIGHTING: TERA TG3 SERIES STARTEK: MED BEAM SERIES	
F2	SAME AS F1 EXCEPT LENGHT	RECESSED T-GRID	3500K LED	120 V	34 W	MINDSET	NT2-SR-6_0-F-GR-FD-C-8035	SAME AS F1	
F3	SAME AS F1 EXCEPT LENGHT	RECESSED T-GRID	3500K LED	120 V	45 W	MINDSET	NT2-SR-8_0-F-GR-FD-C-8035	SAME AS F1	
F4	WALL MOUNTED CONTINUOUS LED LUMINAIRE, NOMINAL 2.5 INCH WIDE APERTURE, ALUMINUM HOUSING WITH EXTRUDED ALUMINUM SIDE WALLS AND TRIM, SATIN ACRYLIC LENS, PROVIDE LENGTHS AS SHOWN ON DRAWING FOR CONTINUOUS INSTALLATION, INTEGRAL DRIVER, MINIMUM L70 OF 50,000+ HOURS, 5 YEAR WARRANTY, 3500K CCT, 0-10V DIMMING TO ≤10%, MINIMUM 80+ CRI, CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS	WALL MT	3500K LED	120 V	SEE NOTES	FOCAL POINT	FSM2LW-AS-375LF-35K-1C-UNV-L11-WM-WH-(LENGHTS PER DRAWINGS)	LITECONTROL: MOD SERIES PINNACLE: EDGE EX2 SERIES AXIS: BEAM 2 SERIES	2.8 WATTS/FT
H1	2 FOOT LED INDUSTRIAL STRIPLIGHT, STEEL HOUSING, ROUND FROSTED ACRYLIC LENS, WIDE DISTRIBUTION, 0-10V DIMMING TO ≤10%, WHITE PAINT FINISH, PEDANT HUNG, 5-YEAR WARRANTY, 3500K CCT, 80+ CRI, MINIMUM L70 OF 50,000+ HOURS	SUSPEND @ 8'-4" AFF	3500K LED	120 V	11 W	LITHONIA	CLX L24 1500LM SEF RDL MVOLT GZ10 35K 80CRI	METALUX: SNX SERIES HE WILLIAMS: 75S SERIES COLUMBIA: MPS SERIES	
H2	SAME AS H1 EXCEPT LENGTH AND LUMEN PACKAGE	SUSPEND @ 8'-0" AFF (UNLESS NOTED OTHERWISE)	3500K LED	120 V	20 W	LITHONIA	CLX L48 3000LM SEF RDL MVOLT GZ10 35K 80CRI	SAME AS H1	
H3	SAME AS H1 EXCEPT LENGTH AND LUMEN PACKAGE	SUSPEND @ 8'-0" AFF (UNLESS NOTED UNLESS NOTED OTHERWISE)	3500K LED	120 V	38 W	LITHONIA	CLX L96 6000LM SEF RDL MVOLT GZ10 35K 80CRI	SAME AS H1	
L1A	SUSPENDED LINEAR DIRECT LED LUMINAIRE, NOMINNAL 3 INCH APERTURE X 6 FOOT LONG EXTRUDED ALUMINUM HOUSING, 50FT DIFFUSE LENS, MATTE WHITE HOUSING POWDER COAT FINISH, CABLE SUSPENSION, LAMBERTIAN DIRECT DISTRIBUTION, 5-YEAR WARRANTY, 3500K LEDS, 0-10V DIMMING TO ≤10%, MINIMUM 80+ CRI, MINIMUM L70 OF 50,000+ HOURS	SUSPEND @ 8'-0" AFF OF SECOND FLOOR	3500K LED	120 V	21 W	LITECONTROL	3L-P-D-6'-06-SOF-C1-35K9-D040-D01-1C-UNV-FA1	EXTANT: HTG-3P SERIES PINNACLE: EDGE EX3 SERIES AXIS: BEAM 3 SERIES	
L1B	SAME AS L1A EXCEPT COLOR	SUSPEND @ 6'-0" AFF	3500K LED	120 V	21 W	LITECONTROL	3L-P-D-6'-06-SOF-C5-35K9-D040-D01-1C-UNV-FA1	SAME AS L1A	
L2A	SAME AS L1A EXCEPT LENGTH	SUSPEND @ 8'-0" AFF	3500K LED	120 V	28 W	LITECONTROL	3L-P-D-8'-08-SOF-C1-35K9-D040-D01-1C-UNV-FA1	SAME AS L1A	
L2B	SAME AS L1A EXCEPT LENGTH AND COLOR	SUSPEND @ 6'-0" AFF	3500K LED	120 V	28 W	LITECONTROL	3L-P-D-8'-08-SOF-C5-35K9-D040-D01-1C-UNV-FA1	SAME AS L1A	
P1	ROUND LED CYLINDER PENDANT DOWNLIGHT, NOMINAL 4 INCH DIAMETER APERTURE, 5 INCH NOMINAL APERATURE HEIGHT, WIDE DISTRIBUTION, RIGID STEM SUSPENSION, PROVIDE STEM LENGTHS AS REQUIRED TO SUSPEND PENDANTS, SANDSTONE GLOSS FINISH, MATTE DIFFUSE REFLECTOR, 0-10V DIMMING TO ≤10%, 5-YEAR WARRANTY, 3500K LED, 80+ CRI, MINIMUM L70 OF 50,000+ HOURS	SUSPEND @ 8'-0" AFF	3500K LED	120 V	10 W	GOTHAM	IVO4CYL-PC-D-10LM-35K-80CRI-WD-MIN1-MVOL- ZT-L5-JBX-CAN-(PER DRAWINGS)-P-AR-LD-DSS	LIGHTHEADED: LED PIPE SERIES ALW: NOVA 3 SERIES	
P2	ROUND LED CYLINDER PENDANT DOWNLIGHT, NOMINAL 4 INCH DIAMETER APERTURE, 5 INCH NOMINAL APERTURE HEIGHT, WALL WASH DISTRIBUTION, RIGID STEM SUSPENSION, PROVIDE STEM LENGTHS AS REQUIRED TO SUSPEND PENDANTS, SANDSTONE GLOSS, MATTE DIFFUSE REFLECTOR, 0-10V DIMMING TO ≤10%, 5-YEAR WARRANTY, 3500K CCT, 80+ CRI, MINIMUM L70 OF 50,000+ HOURS	SUSPEND @ 8'-0" AFF	3500K LED	120 V	10 W	GOTHAM	IVO4CYL-PC-WW-10LM-35K-80CRI-WD-MIN1-MVOL- ZT-L5-JBX-CAN-(PER DRAWINGS)-P-AR-LD-DSS	SAME AS P1	
P3	2 INCH CURVED DIRECT LINEAR LUMINAIRE, 9 FT 0 IN X 5 FT 0 IN NOMINAL DIMENSIONS WITH 30 INCH RADIUS, DIRECT LIGHT DISTRIBUTION, 3500K LED, 80+ CRI, UNIVERSAL VOLTAGE 120-277V, 3500K CCT, 0-10V DIMMING TO ≤10%, SINGLE CIRCUIT, PENDANT MOUNTING, RAL (1013) FINISH, 5-YEAR WARRANTY, MINIMUM L70 OF 50,000+ HOURS	SUSPEND @ 7'-0" AFF	3500K LED	120 V	87 W	LUMENWERX	CURV2CAP-D-9FT0IN-5FT0IN-R30-HL0-FL-NA-SW-80CRI-350LMF-NA-35K-UNV-D1-1C-NA-ACS-CF#1013-NA-NA	PMC LIGHTING: ARCX-M SERIES CORONET: LS1 SERIES	3.1 WATTS/FT
R1A	4" ROUND LED DOWNLIGHT, NOMINAL 4 INCH DIAMETER APERTURE, 2 INCH MAXIMUM RECESS DEPTH, MATTE CLEAR ALZAK REFLECTOR AND SELF-FLANGE TRIM, WIDE DISTRIBUTION, 3500K CCT, 0-10V DIMMING TO ≤10%, 5-YEAR WARRANTY, MINIMUM 80+ CRI, MINIMUM L70 OF 50,000+ HOURS	RECESSED	3500K LED	120 V	16 W	GOTHAM	IVO4S-D-15LM-35K-80CRI-WD-MIN1-MVOLT-ZT-NCH-P-AR-LD-F	LIGHTHEADED: OPUS ECO SERIES	
R1B	SAME AS R1A EXCEPT LUMEN OUTPUT	RECESSED	3500K LED	120 V	22 W	GOTHAM	IVO4S-D-20LM-35K-80CRI-WD-MIN1-MVOLT-ZT-NCH-P-AR-LD-F	SAME AS R1A	
R2	4" ROUND LED DOWNLIGHT, NOMINAL 4 INCH DIAMETER APERTURE, 2 INCH MAXIMUM RECESS DEPTH, MATTE CLEAR ALZAK REFLECTOR AND SELF-FLANGE TRIM, WALL WASH DISTRIBUTION, 3500K CCT, 0-10V DIMMING TO ≤10%, 5-YEAR WARRANTY, MINIMUM 80+ CRI, MINIMUM L70 OF 50,000+ HOURS	RECESSED	3500K LED	120 V	8 W	GOTHAM	IVO4S-WW-07LM-35K-80CRI-MIN1-MVOLT-ZT-NCH-LW-AR-LD-F	SAME AS R1A	
R3	1" ROUND LED DOWNLIGHT, NOMINAL 1-1/4 INCH DIAMETER APERTURE, MATTE CLEAR TRIM, 3500K CCT, 0-10V DIMMING TO ≤10%, 5-YEAR WARRANTY, MINIMUM 80+ CRI, MINIMUM L70 OF 50,000+ HOURS	RECESSED	3500K LED	120 V	6 W	ALPHABET	NU1-RD-SW-07LM-35K-80-60D-DL-WH-WH	LIGHTHEADED: MINNO SERIES AMERLUX: FINCH SERIES LF ILLUMINATION: 1411 SERIES	
W1	LUMINOUS VANITY WALL SCONCE, 5 INCH DIAMETER, 0-10V DIMMING TO ≤10%, 5-YEAR WARRANTY, 3500K CCT, MINIMUM 80+ CRI, MINIMUM L70 OF 50,000+ HOURS	WALL MT ACCORDING TO ELEVATION	3500K LED	120 V	6 W	KUZCO	WS97204-CH/CL	NONE	
W2	WALL MOUNTED LINEAR ARCHITECTURAL WRAP LUMINAIRE, NOMINAL 4 FOOT LONG X 2 INCH TALL BODY X 3 INCH DEEP, FORMED STEEL HOUSING, ALUMINUM ENDCAPS, SINGLE PIECE EXTRUDED SATIN ARCYLIC LENS, FLAIRED LENS DESIGN, INTEGRAL OCCUPANCY SENSOR DIMMING, TEXTURED GLOSS WHITE FINISH, WALL MOUNTED IN HORIZONTAL ORIENTATION, 5-YEAR WARRANTY, NOMINAL 500 INITIAL DELIVERED LUMENS PER FOOT, MINIMUM 80+ CRI, MINIMUM L70 OF 50,000+ HOURS	WALL MT @ 7'-0" AFF	3500K LED	120 V	72 W	PRUDENTIAL	FLAIR-LED35-HO-4'-SAL-YGW-UNV-SUR-DM01	LITECONTROL: 67L-W-D SERIES FINELITE: LT-3 SERIES HE WILLIAMS: 75W SERIES	
W3	MULLION MOUNTED WALLPACK LED LUMINAIRE, NOMINAL 2 FOOT LONG, ALUMINUM HOUSING, IP66 WATERPROOF RATING, BLACK FINISH, ZERO CUT-OFF OPTICS, 3500K CCT, 0-10V DIMMING TO ≤10%, 5-YEAR WARRANTY, MINIMUM 80+ CRI, MINIMUM L70 OF 50,000+ HOURS	WALL/MULLION MT	3500K LED	120 V	21 W	ACUITY	BLD-24IN-MIN10-20W-35K-MVOLT-DP-BLK	NONE	
X1	THIN MIRRORED, WHITE DIE-CAST HOUSING, EDGE-LIT EXIT SIGN	PENDANT MT @ 7'-0" AFF (UNLESS OTHERWISE NOTED ON PLAN)	LED	120 V	3 W	EVENLITE	SOVII--AC-G-(1C OR 2M PER PLANS)-BA-(PENDANT LENGTH PER PLAN)-UC		
X2	THIN MIRRORED, WHITE DIE-CAST HOUSING, EDGE-LIT EXIT SIGN	SURFACE CEILING MOUNT	LED	120 V	3 W	EVENLITE	SOVII--AC-G-(1C OR 2M PER PLANS)-BA-SC-UC		
X3	THIN MIRRORED, WHITE DIE-CAST HOUSING, EDGE-LIT EXIT SIGN	SURFACE WALL MT (PER PLAN)	LED	120 V	3 W	EVENLITE	SOVII--AC-G-(1C OR 2M PER PLANS)-BA-SW-UC		
X4	THIN MIRRORED, WHITE DIE-CAST HOUSING, EDGE-LIT EXIT SIGN	SURFACE END MT (PER PLAN)	LED	120 V	3 W	EVENLITE	SOVII--AC-G-(1C OR 2M PER PLANS)-BA-SE-UC		
X5	THIN MIRRORED, WHITE DIE-CAST HOUSING, EDGE-LIT EXIT SIGN	MULLION MT (PER PLAN)	LED	120 V	3 W	EVENLITE	SOVII--AC-G-(1C OR 2M PER PLANS)-BA-MU-UC		

LIGHTING GENERAL NOTES :

A. ALL LIGHTING FIXTURES FURNISHED UNDER THIS CONTRACT SHALL CARRY THE APPROVAL LABELS OF UL, ETL. OR CSA US FOR THE SPECIFIC APPLICATION IN WHICH THEY ARE USED.

B. ALL LIGHTING FIXTURES SHALL CARRY A MINIMUM 5-YEAR WARRANTY COVERING THE FIXTURE AGAINST MANUFACTURING DEFECTS AND INCLUDE ALL LED BOARDS, DRIVERS, AND SUB-COMPONENTS OF LIGHTING FIXTURE UNLESS NOTED OTHERWISE.

C. ALL LIGHTING FIXTURES SHALL HAVE A MINIMUM OF 80 COLOR RENDERING INDEX UNLESS NOTED OTHERWISE.

D. WHITE LEDS SHALL MEET, AT MINIMUM, CHROMATICITY STANDARDS SET BY THE ANSINEMA/ANSLG C79.377-2008. LED LUMEN MAINTENANCE SHALL BE MEASURED IN ACCORDANCE WITH IESNA LM-80 STANDARDS. PHOTOMETRIC TESTING FOR SOLID STATE LUMINARIES SHALL BE IN ACCORDANCE WITH IESNA LM-79 STANDARDS

E. CONTRACTOR SHALL CONFIRM ALL FIXTURE VOLTAGES AND FIXTURE CEILING TRIMS ARE COMPATIBLE WITH THE APPLICATION PRIOR TO RELEASE OF ORDER.

F. CONTRACTOR SHALL PROVIDE ALL LUMINAIRE ACCESSORIES, POLES, MOUNTING HARDWARE, ETC. FROM COMMON MANUFACTURER UNLESS SPECIFICALLY NOTED OTHERWISE IN LUMINAIRE SCHEDULE.

G. ALL REMOTE POWER SUPPLIES TO BE LOCATED ABOVE 100-YEAR FLOODPLAIN. CONTRACTOR SHALL SELECT, FURNISH, AND INSTALL THE CORRECT SIZE OF SECONDARY WIRING FROM REMOTE POWER SUPPLIES/TRANSFORMERS FOR ALL LOW-VOLTAGE LIGHTING SYSTEMS TO KEEP VOLTAGE DROP IN THE SECONDARY WIRING BELOW 3% OF RATED VOLTAGE.

H. CONTRACTOR SHALL PROVIDE THE FOLLOWING WITH THEIR BID:

1. UNIT PRICE FOR EACH LIGHTING FIXTURE TYPE LISTED ON LIGHTING FIXTURE SCHEDULE. THE UNIT PRICE SHALL BE FOR THE FIXTURE AS PROVIDED BY ONE OF THE MANUFACTURERS LISTED IN THE SCHEDULE. THE MANUFACTURER SHALL BE IDENTIFIED ALONG WITH UNIT PRICING. SUBSTITUTIONS OR FIXTURES BY MANUFACTURERS NOT LISTED ON THE SCHEDULE ARE NOT ACCEPTABLE.
2. THE TOTAL QUANTITY OF EACH FIXTURE TYPE WITH THE EXTENDED PRICE FOR THAT FIXTURE TYPE

I. WITHIN 10 BUSINESS DAYS OF CONTRACT AWARD, THE CONTRACTOR SHALL FURNISH SUBMITTALS FOR ALL SPECIFIED LIGHTING FOR REVIEW BY DESIGN PROFESSIONAL. SUBMITTALS SHALL INCLUDE LUMINAIRE CUT SHEETS INDICATING THE FOLLOWING:

1. MANUFACTURER NAME AND COMPLETE CATALOG NUMBER
2. FIXTURE TYPE
3. FIXTURE DIMENSIONS
4. FINISH
5. ACCESSORIES
6. WATTAGE, LUMEN OUTPUT, RATED LIFE, COLOR TEMPERATURE, COLOR RENDERING INDEX, AND BEAM SPREAD AS APPLICABLE.
7. FIXTURE VOLTAGE

SUBMITTALS FOR NON-STANDARD, MODIFIED, CUSTOM, OR COVE-MOUNTED FIXTURES SHALL ALSO INCLUDED SCALED DRAWINGS SHOWING LAYOUT AND DIMENSIONS OF ALL FIXTURES, COMPONENTS, AND ACCESSORIES; METHOD OF INSTALLATION; AND COMPLETE BILL OF MATERIALS.

J. LIGHTING FIXTURE SUBSTITUTION REQUESTS MUST BE RECEIVED BY THE LIGHTING DESIGNER FOR REVIEW 10 BUSINESS DAYS PRIOR TO BID DATE. FAILURE TO SUBMIT WITHIN THAT DEADLINE WILL CONSTITUTE A GUARANTEE THAT THE SPECIFIED FIXTURES WILL BE SUPPLIED. THE SUBMITTAL SHALL INCLUDE THE FOLLOWING:

1. COPIES OF THE SUBMITTALS AS OUTLINED ABOVE FOR THE SPECIFIED FIXTURE AND THE PROPOSED SUBSTITUTION.
2. ONE NON-RETURNABLE WORKING SAMPLE OF THE PROPOSED SUBSTITUTE FIXTURE WITH CORD AND PLUG CONNECTION FOR 120V OPERATION.
3. PHOTOMETRIC CALCULATIONS FOR THE SPECIFIED FIXTURE AND FOR THE PROPOSED SUBSTITUTE FIXTURE. CALCULATIONS SHALL INCLUDE A SCALED POINT-BY-POINT LAYOUT SHOWING 2 FOOT X 2 FOOT POINT SPACING (INTERIOR) OR 10 FOOT X 10 FOOT POINT SPACING (EXTERIOR); CALCULATION POINT HEIGHT; FIXTURE TYPE AND MOUNTING HEIGHT; A SUMMARY BY SPACE SHOWING AVERAGE FOOT CANDLES, MAX:AVG, MAX:MIN, MAXIMUM, AND MINIMUM FOOT CANDLE LEVELS; A FIXTURE SCHEDULE INCLUDING TYPE, IES FILE NAME, CATALOG NUMBER, TOTAL LIGHT LOSS FACTOR; AND A LIGHTING POWER DENSITY SCHEDULE SHOWING IMPACT OF PROPOSED SUBSTITUTION FIXTURE ON ENERGY USAGE.
4. CONTRACTOR STATEMENT INDICATING THAT THE EFFECT OF THE SUBSTITUTION ON THE CONSTRUCTION SCHEDULE COMPARED TO THE SCHEDULE WITHOUT THE APPROVAL OF THE PROPOSED SUBSTITUTION.
5. CONTRACTOR'S CERTIFICATION THAT THE PROPOSED SUBSTITUTION CONFORMS TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS IN EVERY RESPECT AND IS APPROPRIATE FOR THE APPLICATIONS INDICATED IN THE DOCUMENTS.
6. CONTRACTOR'S CERTIFICATION THAT ANY MODIFICATIONS TO ANY BUILDING SYSTEM OR EQUIPMENT THAT MAY RESULT FROM THE PROPOSED LIGHTING FIXTURE SUBSTITUTION WILL BE DESIGNED AND CONSTRUCTED AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR'S WAIVER OF RIGHTS TO ADDITIONAL PAYMENT OR TIME THAT MAY BECOME NECESSARY SHOULD THE PROPOSED SUBSTITUTION FAIL TO PERFORM IN A MANNER THAT MATCHES THE SPECIFIED FIXTURE.
8. CONTRACTOR-NET UNIT PRICE FOR THE SPECIFIED FIXTURE AND FOR THE PROPOSED SUBSTITUTE FIXTURE.

THE SPECIFIER SHALL BE REIMBURSED BY THE CONTRACTOR FOR ALL OF THE SPECIFICER'S TIME ASSOCIATED WITH THE REVIEW OF FIXTURE SUBSTITUTIONS. PAYMENT SHALL BE MADE IN ADVANCE OF THE REVIEW, BASED ON THE SPECIFIER'S ESTIMATE OF THE REQUIRED TIME. THE PAYMENT SHALL BE BASED ON THE SPECIFIER'S STANDARD HOURLY RATES FOR THE PERSONNEL INVOLVED IN THE REVIEW.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	POWER	VOLTAGE	PHASE	FEEDER	DISCONNECTING MEANS	DISC FURNISH/INSTALL	NOTES
AC-1	AIR CONDITIONER	0 VA	208 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE SWITCH	DIV. 26 / DIV. 26	69W, FED FROM CU-1
AC-2	AIR CONDITIONER	0 VA	208 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE SWITCH	DIV. 26 / DIV. 26	30W, FED FROM CU-2
AC-3	AIR CONDITIONER	0 VA	208 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE SWITCH	DIV. 26 / DIV. 26	30W, FED FROM CU-3
AC-4	AIR CONDITIONER	0 VA	208 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE SWITCH	DIV. 26 / DIV. 26	69W, FED FROM CU-4
B-1	BOILER	300 VA	120 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE SWITCH	DIV. 26 / DIV. 26	
B-2	BOILER	300 VA	120 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE SWITCH	DIV. 26 / DIV. 26	
B-3	BOILER	300 VA	120 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE SWITCH	DIV. 26 / DIV. 26	
BP-1	BOILER PUMP	2870 VA	208 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE SWITCH	DIV. 26 / DIV. 26	20A RECOMMENDED BREAKER SIZE
BP-2	BOILER PUMP	2870 VA	208 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE SWITCH	DIV. 26 / DIV. 26	20A RECOMMENDED BREAKER SIZE
BP-3	BOILER PUMP	2870 VA	208 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE SWITCH	DIV. 26 / DIV. 26	20A RECOMMENDED BREAKER SIZE
CU-1	CONDENSING UNIT	4576 VA	208 V	1	2#12+#12G-3/4"C	PROVIDE 20A/1P FUSIBLE DISCONNECT	DIV. 26 / DIV. 26	25A RECOMMENDED BREAKER SIZE
CU-2	CONDENSING UNIT	3328 VA	208 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE DISCONNECT	DIV. 26 / DIV. 26	20A RECOMMENDED BREAKER SIZE
CU-3	CONDENSING UNIT	3328 VA	208 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE DISCONNECT	DIV. 26 / DIV. 26	20A RECOMMENDED BREAKER SIZE
CU-4	CONDENSING UNIT	4576 VA	208 V	1	2#12+#12G-3/4"C	PROVIDE 20A/1P FUSIBLE DISCONNECT	DIV. 26 / DIV. 26	25A RECOMMENDED BREAKER SIZE
CUH-1	CABINET UNIT HEATER	527 VA	120 V	1	2#12+#12G-3/4"C	FURNISHED W/ UNIT	DIV. 23 / DIV. 23	
CUH-2	CABINET UNIT HEATER	527 VA	120 V	1	2#12+#12G-3/4"C	FURNISHED W/ UNIT	DIV. 23 / DIV. 23	
DCBP-1	DOMESTIC WATER BOOSTER PUMP	4071 VA	208 V	3	3#12+#12G-3/4"C	PROVIDE 20A/1P FUSIBLE DISCONNECT	DIV. 26 / DIV. 26	11.3 FLA / 14.125 MCA / 30 MOCP
DWH-1	WATER HEATER	180 VA	120 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE SWITCH	DIV. 26 / DIV. 26	
EF-1	EXHAUST FAN	1200 VA	120 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE SWITCH	DIV. 26 / DIV. 26	10 FLA / 12.5 MCA / 20 MOCP
EHAC-1 - ELEC HEAT	AIR CURTAIN - ELECTRIC HEATER	28018 VA	480 V	3	3#6+#10G-3/4"C	FURNISHED W/ UNIT	DIV. 23 / DIV. 23	33.7 A / 45 MOCP
EHAC-1 - MTRS	AIR CURTAIN - MOTORS	2040 VA	120 V	1	2#10+#10G-3/4"C	FURNISHED W/ UNIT	DIV. 23 / DIV. 23	17 A / 25 MOCP
FP-1	FIRE PUMP	22447 VA	480 V	3	3#4+#10G-1"C	PROVIDE POWER TRANFER SWITCH	DIV. 26 / DIV. 26	200A BREAKER FOR LRC
HWP-1	HYDRONIC PUMP	6304 VA	208 V	3	3#10+#10G-3/4"C	PROVIDE 25A/1P FUSIBLE DISCONNECT	DIV. 26 / DIV. 26	5 HP / 17.5 FLA / 21.9 MCA / 35 MOCP
HWP-2	HYDRONIC PUMP	6304 VA	208 V	3	3#10+#10G-3/4"C	PROVIDE 25A/1P FUSIBLE DISCONNECT	DIV. 26 / DIV. 26	5 HP / 17.5 FLA / 21.9 MCA / 35 MOCP
JP-1	JOCKEY PUMP	3991 VA	480 V	3	3#8, #10G-3/4"C	PROVIDE 25A/1P FUSIBLE DISCONNECT	DIV. 26 / DIV. 26	35A BREAKER FOR LRC
RP-1	RECIRC PUMP	180 VA	120 V	1	2#12+#12G-3/4"C	PROVIDE 15A/1P FUSIBLE SWITCH	DIV. 26 / DIV. 26	1/12 HP
RTU-1	ROOFTOP UNIT	55951 VA	480 V	3	3#3+1#8G-1 1/4"C	FURNISHED W/ UNIT	DIV. 23 / DIV. 23	83 MCA / 100 MOCP
RTU-2	ROOFTOP UNIT	55951 VA	480 V	3	3#3+1#8G-1 1/4"C	FURNISHED W/ UNIT	DIV. 23 / DIV. 23	83 MCA / 100 MOCP
RTU-3	ROOFTOP UNIT	55951 VA	480 V	3	3#3+1#8G-1 1/4"C	FURNISHED W/ UNIT	DIV. 23 / DIV. 23	83 MCA / 100 MOCP
RTU-4	ROOFTOP UNIT	55951 VA	480 V	3	3#3+1#8G-1 1/4"C	FURNISHED W/ UNIT	DIV. 23 / DIV. 23	83 MCA / 100 MOCP

STARTER TYPES:

FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
2-SPD	TWO SPEED
VFD	VARIABLE FREQUENCY DRIVE
RVS	REDUCED VOLTAGE

COMBINATION DISCONNECT TYPES:

FS	FUSED SWITCH
NFS	NON-FUSED SWITCH
MCP	MOTOR CIRCUIT PROTECTOR
CB	CIRCUIT BREAKER

CONTROL DEVICES:

HOA	HAND-OFF-AUTO SWITCH
RP	RED (RUN) PILOT LIGHT
GP	GREEN (POWER) PILOT LIGHT
0/0	ON-OFF SELECTOR SWITCH
S/S	STOP-START PUSHBUTTONS

NOTES:

1. INPUT AND OUTPUT CONDUCTORS TO AND FROM VFD'S SHALL BE INSTALLED IN SEPARATE RACEWAYS, INDEPENDENT FROM ANY OTHER CONDUCTORS, AND SHALL NOT PASS THRU ANY COMMON WIREWAY OR RACEWAY.

PROGRESSIVE AE, INC.
PROGRESSIVE COMPANIES
Charlotte, NC | Detroit, MI | Grand Rapids, MI
weareprogressive.com

ISABELLA COUNTY
ADMINISTRATION BUILDING
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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
D. HERSCHER
DRAWN BY
G. GISCHIA
CHECKED BY
D. HERSCHER

ELECTRICAL SCHEDULES
E601

24.2.002
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BY: EBRY
FILE: E601 - ELECTRICAL SCHEDULES
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LIGHTING CONTROL SCHEDULE

CONTROL MODULE	LIGHTING ZONE	CIRCUIT NUMBER	FIXTURE TYPE	TOTAL LOAD	SEQUENCE OF OPERATION	LOCAL CONTROL	OCCUPANCY/ VACANCY SENSOR	PHOTOCELL	TIME CLOCK	HIGH END TRIM
100 - VACANT										
0-10V	-	3-L1A	H2	61 W	S2	LC3	Yes	No	No	100%
0-10V	-	3-L1A	H3	76 W	S2	LC3	Yes	No	No	100%
101 - OFFICE										
0-10V	-	3-L1A	F1	51 W	S2	LC2	Yes	No	No	100%
102 - OFFICE										
0-10V	-	3-L1A	F1	51 W	S2	LC2	Yes	No	No	100%
103 - OPEN OFFICE										
0-10V	-	3-L1A	F1	51 W	S2	LC2	Yes	No	No	100%
0-10V	-	1-LSL2A	F1	26 W	S2	LC2	Yes	No	No	100%
0-10V	-	1-LSL2A	P1	10 W	S2	LC2	Yes	No	No	100%
0-10V	-	1-LSL2A	R1A	16 W	S2	LC2	Yes	No	No	100%
104 - STORAGE										
LINE-VOLTAGE	-	3-L1A	A2	16 W	S4	LC1	Yes	No	No	100%
105 - VAULT										
LINE-VOLTAGE	-	3-L1A	A2	31 W	S4	LC1	Yes	No	No	100%
106 - OFFICE										
0-10V	-	3-L1A	F1	51 W	S2	LC2	Yes	No	No	100%
107 - OFFICE										
0-10V	-	3-L1A	F1	51 W	S2	LC2	Yes	No	No	100%
108 - STORAGE										
LINE-VOLTAGE	-	3-L1A	H2	41 W	S4	LC1	Yes	No	No	100%
109 - STORAGE										
LINE-VOLTAGE	-	3-L1A	A2	16 W	S4	LC1	Yes	No	No	100%
110 - OPEN OFFICE										
0-10V	-	3-L1A	R1A	94 W	S2	LC2	Yes	No	No	100%
0-10V	-	1-LSL2A	R1A	47 W	S2	LC2	Yes	No	No	100%
112 - IT SERVER										
LINE-VOLTAGE	-	3-L1A	H2	20 W	S1	LC4	No	No	No	100%
LINE-VOLTAGE	-	1-LSL2A	H2	20 W	S1	LC4	No	No	No	100%
113 - WELLNESS ROOM										
0-10V	-	3-L1A	R1A	31 W	S2	LC2	Yes	No	No	100%
114 - BEVERAGE STATION										
0-10V	-	3-L1A	R1B	22 W	S2	LC2	Yes	No	No	100%
0-10V	-	1-LSL2A	R1B	22 W	S2	LC2	Yes	No	No	100%
115 - STAFF RESTROOM										
LINE-VOLTAGE	-	4-L1A	R1A	31 W	S4	LC1	Yes	No	No	100%
LINE-VOLTAGE	-	4-L1A	W1	12 W	S4	LC1	Yes	No	No	100%
116 - WOMENS										
0-10V	116a	3-L1A	R1A	16 W	S4		Yes	No	No	100%
0-10V	116a	1-LSL2A	R1A	16 W	S4		Yes	No	No	100%
0-10V	116a	3-L1A	W1	12 W	S4		Yes	No	No	100%
0-10V	116b	3-L1A	C1	27 W	S5		Yes	No	No	100%
117 - MENS										
0-10V	117a	4-L1A	R1A	16 W	S4		Yes	No	No	100%
0-10V	117a	1-LSL2A	R1A	16 W	S4		Yes	No	No	100%
0-10V	117a	4-L1A	W1	12 W	S4		Yes	No	No	100%
0-10V	117b	4-L1A	C1	27 W	S5		Yes	No	No	100%
118 - JC										
LINE-VOLTAGE	-	4-L1A	H1	11 W	S4	LC1	Yes	No	No	100%
119 - BOILER ROOM										
LINE-VOLTAGE	-	2-L1A	H2	20 W	S1	LC4	No	No	No	100%
LINE-VOLTAGE	-	1-LSL2A	H2	20 W	S1	LC4	No	No	No	100%
LINE-VOLTAGE	-	2-L1A	H3	38 W	S1	LC4	No	No	No	100%
LINE-VOLTAGE	-	1-LSL2A	H3	38 W	S1	LC4	No	No	No	100%
120 - ELEC.										
LINE-VOLTAGE	-	1-LSL2A	H2	61 W	S1	LC4	Yes	No	No	100%
121 - WORK ROOM										
0-10V	-	4-L1A	H3	190 W	S2	LC2	Yes	No	No	100%
122 - OFFICE										
0-10V	-	4-L1A	F1	51 W	S2	LC2	Yes	No	No	100%
123 - OPEN OFFICE										
0-10V	-	4-L1A	F2	67 W	S2	LC2	Yes	No	No	100%
0-10V	-	1-LSL2A	F2	34 W	S2	LC2	Yes	No	No	100%
0-10V	-	4-L1A	P1	20 W	S2	LC2	Yes	No	No	100%
124 - OPEN OFFICE										
0-10V	-	4-L1A	F3	90 W	S2	LC2	Yes	No	No	100%
0-10V	-	4-L1A	P1	29 W	S2	LC2	Yes	No	No	100%
0-10V	-	1-LSL2A	P1	29 W	S2	LC2	Yes	No	No	100%
125 - MEETING										
0-10V	125a	4-L1A	R1A	63 W	S2	LC3	Yes	No	No	100%
0-10V	125b	4-L1A	L1B	21 W	S2	LC3	Yes	No	No	100%
126 - WAITING										
0-10V	-	2-L1A	P1	20 W	S4	LC2	Yes	No	No	100%
0-10V	-	1-LSL2A	P1	29 W	S4	LC2	Yes	No	No	100%
127 - GENERAL STORAGE										
0-10V	-	2-L1A	H2	203 W	S2	LC4	No	No	No	100%
128 - GENERAL STORAGE										
LINE-VOLTAGE	-	2-L1A	H2	41 W	S4	LC1	Yes	No	No	100%
129 - WAITING										
0-10V	-	4-L1A	R1A	31 W	S4		Yes	No	No	100%
0-10V	-	1-LSL2A	R1A	16 W	S4		Yes	No	No	100%
130 - OPEN OFFICE										
0-10V	130a	2-L1A	P1	49 W	S2	LC3	Yes	No	No	100%
0-10V	130a	1-LSL2A	P1	20 W	S2	LC3	Yes	No	No	100%
0-10V	130a	2-L1A	R1A	31 W	S2	LC3	Yes	No	No	100%
0-10V	130a	1-LSL2A	R1A	16 W	S2	LC3	Yes	No	No	100%
0-10V	130b	2-L1A	F3	269 W	S2	LC3	Yes	No	No	100%
131 - VAULT										
LINE-VOLTAGE	-	2-L1A	A2	31 W	S4	LC1	Yes	No	No	100%
132 - OFFICE										
0-10V	-	2-L1A	F1	51 W	S2	LC2	Yes	No	No	100%
133 - OFFICE										
0-10V	-	2-L1A	F1	51 W	S2	LC2	Yes	No	No	100%
134 - MEETING										
0-10V	134a	2-L1A	A1	152 W	S2	LC3	Yes	No	No	40%
0-10V	134b	2-L1A	R1A	126 W	S2	LC3	Yes	No	No	100%
135 - MEETING										
0-10V	135a	1-L1A	A1	152 W	S2	LC3	Yes	No	No	40%
0-10V	135b	1-L1A	R1A	126 W	S2	LC3	Yes	No	No	100%
136 - OPEN OFFICE										
0-10V	136a	1-L1A	P1	10 W	S2	LC3	Yes	No	No	100%
0-10V	136a	1-LSL2A	P1	10 W	S2	LC3	Yes	No	No	100%
0-10V	136a	1-LSL2A	R1A	16 W	S2	LC3	Yes	No	No	100%
0-10V	136aa	1-L1A	P1	29 W	S3	LC3	Yes	No	No	100%
0-10V	136aa	1-LSL2A	P1	39 W	S3	LC3	Yes	No	No	100%
0-10V	136b	1-L1A	F3	134 W	S2	LC3	Yes	No	No	60%
0-10V	136bb	1-L1A	F3	134 W	S3	LC3	Yes	No	No	60%
137 - STORAGE										
LINE-VOLTAGE	-	1-L1A	H1	11 W	S4	LC1	Yes	No	No	100%
138 - STORAGE										
LINE-VOLTAGE	-	1-L1A	H2	41 W	S4	LC1	Yes	No	No	100%
139 - OFFICE										
0-10V	-	1-L1A	F1	51 W	S2	LC2	Yes	No	No	100%
140 - OFFICE										
0-10V	-	1-L1A	F1	51 W	S2	LC2	Yes	No	No	100%
141 - OFFICE										
0-10V	-	1-L1A	F1	51 W	S2	LC2	Yes	No	No	100%
142 - DRAFTING & REVIEW										
0-10V	142a	1-L1A	P1	88 W	S2	LC3	Yes	No	No	100%
0-10V	142a	1-LSL2A	P1	59 W	S2	LC3	Yes	No	No	100%
0-10V	142a	1-L1A	R1A	16 W	S2	LC3	Yes	No	No	100%
0-10V	142a	1-LSL2A	R1A	31 W	S2	LC3	Yes	No	No	100%
0-10V	142a	1-L1A	R1B	67 W	S2	LC3	Yes	No	No	100%
0-10V	142a	1-LSL2A	R1B	22 W	S2	LC3	Yes	No	No	100%
0-10V	142b	1-L1A	F3	134 W	S2	LC3	Yes	No	No	60%
143 - OFFICE										
0-10V	-	1-L1A	F1	51 W	S2	LC2	Yes	No	No	100%
144 - OFFICE										
0-10V	-	1-L1A	F3	90 W	S2	LC2	Yes	No	No	100%
145 - CORRIDOR										
0-10V	-	2-L1A	P1	137 W	S5	LC2	Yes	No	No	100%
0-10V	-	1-LSL2A	P1	127 W	S5	LC2	Yes	No	No	100%
0-10V	-	2-L1A	P3	87 W	S5	LC2	Yes	No	No	100%
0-10V	-	2-L1A	R1A	47 W	S5	LC2	Yes	No	No	100%
0-10V	-	1-LSL2A	R1A	31 W	S5	LC2	Yes	No	No	100%
147 - SUPPLIES										
LINE-VOLTAGE	-	3-L1A	H1	11 W	S4	LC1	Yes	No	No	100%
148 - SUPPLIES										
LINE-VOLTAGE	-	4-L1A	H1	11 W	S4	LC1	Yes	No	No	100%
149 - RISER										
LINE-VOLTAGE	-	1-LSL2A	H2	20 W	S4	LC4	No	No	No	100%
150 - STORAGE										
LINE-VOLTAGE	-	4-L1A	A2	31 W	S4	LC1	Yes	No	No	100%
151 - PRINT ROOM										
0-10V	-	3-L1A	P1	20 W	S2	LC2	Yes	No	No	100%
152 - RESEARCH										
0-10V	236b	3-L2B	R1A	31 W	S2	LC3	Yes	No	No	100%

CONTROL MODULE	LIGHTING ZONE	CIRCUIT NUMBER	FIXTURE TYPE	TOTAL LOAD	SEQUENCE OF OPERATION	LOCAL CONTROL	OCCUPANCY/ VACANCY SENSOR	PHOTOCELL	TIME CLOCK	HIGH END TRIM
154 - STORAGE										
LINE-VOLTAGE	-	3-L1A	H1	11 W	S4	LC1	Yes	No	No	100%
168 - WAITING										
0-10V	-	2-L1A	R1A	63 W	S5	LC2	Yes	No	No	100%
201 - MEETING										
0-10V	201a	4-L2B	R1A	94 W	S2	LC3	Yes	No	No	100%
0-10V	201b	4-L2B	L2B	28 W	S2	LC3	Yes	No	No	100%
202 - CUSTOMER HELP										
0-10V	203a	4-L2B	R1A	31 W	S2	LC3	Yes	No	No	100%
203 - OPEN OFFICE										
0-10V	203a	4-L2B	P1	78 W	S2	LC3	Yes	No	No	100%
0-10V	203a	3-LSL2A	P1	59 W	S2	LC3	Yes	No	No	100%
0-10V	203a	4-L2B	R1A	31 W	S2	<varies>	Yes	No	No	100%
0-10V	203a	3-LSL2A	R1A	16 W	S2	LC3	Yes	No	No	100%
0-10V	203b	4-L2B	F3	134 W	S2	LC3	Yes	No	No	100%
204 - VAULT										
LINE-VOLTAGE	-	3-L2B	A2	16 W	S4	LC1	Yes	No	No	100%
205 - OFFICE										
0-10V	-	4-L2B	F1	51 W	S2	LC2	Yes	No	No	100%
206 - OFFICE										
0-10V	-	4-L2B	F2	67 W	S2	LC2	Yes	No	No	100%
207 - MEETING										
0-10V	207a	4-L2B	R1A	79 W	S2	LC3	Yes	No	No	100%
0-10V	207a	3-LSL2A	R1A	47 W	S2	LC3	Yes	No	No	100%
0-10V	207b	4-L2B	L2B	28 W	S2	LC3	Yes	No	No	100%
208 - CORRIDOR										
0-10V	-	4-L2B	P1	20 W	S4		Yes	No	No	100%
0-10V	-	3-LSL2A	P1	49 W	S4		Yes	No	No	100%
209 - OFFICE										
0-10V	-	4-L2B	F1	51 W	S2	LC2	Yes	No	No	100%
210 - OFFICE										
0-10V	-	4-L2B	F1	51 W	S2	LC2	Yes	No	No	100%
211 - WELLNESS ROOM										
LINE-VOLTAGE	-	4-L2B	R1A	31 W	S2	LC1	Yes	No	No	100%
213 - ELEC										
LINE-VOLTAGE	-	4-L2B	H1	11 W	S1	LC1	Yes	No	No	100%
214 - MAILROOM										
0-10V	-	4-L2B	F1	77 W	S2	LC2	Yes	No	No	100%
215 - STAFF RESTROOM										
LINE-VOLTAGE	-	4-L2B	R1A	16 W	S4	LC1	Yes	No	No	100%
LINE-VOLTAGE	-	4-L2B	W1	12 W	S4	LC1	Yes	No	No	100%
216 - WOMEN										
0-10V	216a	4-L2B	R1A	16 W	S4		Yes	No	No	100%
0-10V	216a	3-LSL2A	R1A	16 W	S4		Yes	No	No	100%
0-10V	216a	4-L2B	W1	12 W	S4		Yes	No	No	100%
0-10V	216b	4-L2B	C1	27 W	S5		Yes	No	No	100%
217 - MEN										
0-10V	217a	4-L2B	R1A	16 W	S4		Yes	No	No	100%
0-10V	217a	3-LSL2A	R1A	16 W	S4		Yes	No	No	100%
0-10V	217a	4-L2B	W1	12 W	S4		Yes	No	No	100%
0-10V	217b	4-L2B	C1	27 W	S5		Yes	No	No	100%
218 - JC										
LINE-VOLTAGE	-	4-L2B	H1	11 W	S4	LC1	Yes	No	No	100%
219 - IT										
LINE-VOLTAGE	-	3-LSL2A	H2	20 W	S1	LC4	No	No	No	100%
220 - ELEC										
LINE-VOLTAGE	-	3-LSL2A	H1	11 W	S1	LC4	No	No	No	100%
220 - OFFICE										
0-10V	-	2-L2B	F1	51 W	S2	LC2	Yes	No	No	100%
221 - CORRIDOR										
0-10V	-	4-L2B	R1A	47 W	S4		Yes	No	No	100%
0-10V	-	3-LSL2A	R1A	110 W	S4		Yes	No	No	100%
222 - MEETING										
0-10V	222a	4-L2B	C1	66 W	S2	LC3	Yes	No	No	100%
0-10V	222aa	4-L2B	C1	66 W	S2	LC3	Yes	Yes	No	100%
0-10V	222b	4-L2B	R1A	63 W	S2	LC3	Yes	No	No	100%
0-10V	222bb	4-L2B	R1A	63 W	S2	LC3	Yes	Yes	No	100%
223 - MEETING										
0-10V	223a	4-L2B	C1	52 W	S2	LC3	Yes	No	No	100%
0-10V	223aa	4-L2B	C1	52 W	S2	LC3	Yes	Yes	No	100%
0-10V	223b	4-L2B	R1A	47 W	S2	LC3	Yes	No	No	100%
0-10V	223bb	4-L2B	R1A	47 W	S2	LC3	Yes	Yes	No	100%
224 - AV										
LINE-VOLTAGE	-	4-L2B	A2	16 W	S4	LC1	Yes	No	No	100%
LINE-VOLTAGE	-	1-L2B	H2	20 W	S4	LC1	Yes	No	No	100%
225 - UNISEX RESTROOM										
LINE-VOLTAGE	-	4-L2B	R1A	16 W	S4	LC1	Yes	No	No	100%
LINE-VOLTAGE	-	4-L2B	W1	12 W	S4	LC1	Yes	No	No	100%
226 - COMMISSION CHAMBERS										
0-10V	226a	1-L2B	L2A	224 W	S2	LC3	Yes	No	No	100%
0-10V	226b	1-L2B	R1A	141 W	S2	LC3	Yes	No	No	100%
0-10V	226b	3-LSL2A	R1A	31 W	S2	LC3	Yes	No	No	100%
0-10V	226bb	1-L2B	R1A	94 W	S2	LC3	Yes	Yes	No	100%
0-10V	226bb	3-LSL2A	R1A	79 W	S2	LC3	Yes	Yes	No	100%
0-10V	226c	1-L2B	R2	31 W	S2	LC3	Yes	No	No	100%
0-10V	226cc	1-L2B	R2	16 W	S2	LC3	Yes	Yes	No	100%
0-10V	226d	1-L2B	R3	28 W	S2	LC3	Yes	No	No	100%
0-10V	226d	3-LSL2A	R3	28 W	S2	LC3	Yes	No	No	100%
0-10V	226dd	1-L2B	R3	11 W	S2	LC3	Yes	Yes	No	100%
0-10V	226dd	3-LSL2A	R3	17 W	S2	LC3	Yes	Yes	No	100%
227 - VESTIBULE										
0-10V	-	2-L2B	R1A	31 W	S4		Yes	No	No	100%
0-10V	-	3-LSL2A	R1A	16 W	S4		Yes	No	No	100%
0-10V	228d	2-L2B	F4	41 W	S4	LC3	Yes	No	No	100%
228 - LOBBY										
0-10V	228aa	2-L2B	R1A	141 W	S4	LC3	Yes	Yes	No	100%
0-10V	228aa	3-LSL2A	R1A	79 W	S4	LC3	Yes	Yes	No	100%
0-10V	228b	2-L2B	R1B	90 W	S4	LC3	Yes	No	No	100%
0-10V	228b	3-LSL2A	R1B	45 W	S4	LC3	Yes	No	No	100%
0-10V	228cc	2-L2B	L2A	140 W	S4	LC3	Yes	Yes	No	100%
0-10V	228dd	2-L2B	F4	117 W	S4	LC3	Yes	Yes	No	100%
228 - STORAGE										
LINE-VOLTAGE	-	3-L2B	A2	16 W	S4	LC1	Yes	No	No	100%
230 - OPEN OFFICE										
0-10V	230a	2-L2B	F2	67 W	S2	LC3	Yes	No	No	100%
0-10V	230a	3-LSL2A	F2	34 W	S2	LC3	Yes	No	No	100%
0-10V	230b	2-L2B	P1	29 W	S2	LC3	Yes	No	No	100%
0-10V	230b	3-LSL2A	P1	29 W	S2	LC3	Yes	No	No	100%
0-10V	230b	2-L2B	R1A	31 W	S2	LC3	Yes	No	No	100%
0-10V	230b	3-LSL2A	R1A	31 W	S2	LC3	Yes	No	No	100%
232 - OFFICE										
0-10V	-	2-L2B	F1	51 W	S2	LC2	Yes	No	No	100%
233 - MEETING										
0-10V	233a	2-L2B	C1	193 W	S2	LC3	Yes	No	No	100%
0-10V	233b	2-L2B	L2B	28 W	S2	LC3	Yes	No	No	100%
234 - VAULT										
0-10V	-	3-L2B	A2	78 W	S4	LC2	Yes	No	No	100%
235 - STORAGE										
LINE-VOLTAGE	-	2-L2B	A2	16 W	S4	LC1	Yes	No	No	100%
236 - APPLICANTS										
0-10V	236b	3-L2B	R1A	63 W	S2	LC2	Yes	No	No	100%
236 - OPEN OFFICE										
0-10V	236a	3-L2B	F3	134 W	S2	LC3	Yes	No	No	100%
0-10V	236b	3-L2B	P1	10 W	S2	LC3	Yes	No	No	100%
0-10V	236b	3-LSL2A	P1	20 W	S2	LC3	Yes	No	No	100%
0-10V	236b	3-L2B	R1A	31 W	S2	LC3	Yes	No	No	100%
0-10V	236b	3-LSL2A	R1A	31 W	S2	LC3	Yes	No	No	100%
0-10V	236bb	3-L2B	P1	29 W	S2	LC3	Yes	Yes	No	100%
0-10V	236bb	3-LSL2A	P1	29 W	S2	LC3	Yes	Yes	No	100%
237 - OFFICE										
0-10V	-	3-L2B	F1	51 W	S2	LC2	Yes	No	No	100%
0-10V	-	3-L2B	F3	90 W	S2	LC2	Yes	No	No	100%
238 - VAULT										
0-10V	-	3-L2B	A2	187 W	S2	LC2	Yes	No	No	100%
239 - BREAK ROOM										
0-10V	239a	3-L2B	L2A	168 W	S2	LC3	Yes	No	No	100%
0-10V	239b	3-L2B	P1	29 W	S2	LC3	Yes	No	No	100%
0-10V	239b	3-LSL2A	P1	29 W	S2	LC3	Yes	No	No	100%
0-10V	239b	3-LSL2A	R1A	16 W	S2	LC3	Yes	No	No	100%
240 - CORRIDOR										
0-10V	-	2-L2B	P1	147 W	S5	LC2	Yes	No	No	100%
0-10V	-	3-LSL2A	P1	147 W	S5	LC2	Yes	No	No	100%
0-10V	-	2-L2B	P2	10 W	S5	LC2	Yes	No	No	100%
0-10V	-	3-LSL2A	P2	10 W	S5	LC2	Yes	No	No	100%
0-10V	-	1-L2B	P3	87 W	S5	LC2	Yes	No	No	100%
0-10V	-	2-L2B	R1A	47 W	S5	LC2	Yes	No	No	100%
0-10V	-	3-LSL2A	R1A	63 W	S5	LC2	Yes	No	No	100%
241 - WAITING										
0-10V	-	3-L2B	R1A	63 W	S4	LC2	Yes	No	No	100%

CONTROL MODULE	LIGHTING ZONE	CIRCUIT NUMBER	FIXTURE TYPE	TOTAL LOAD	SEQUENCE OF OPERATION	LOCAL CONTROL	OCCUPANCY/ VACANCY SENSOR	PHOTOCELL	TIME CLOCK	HIGH END TRIM
0-10V	-	3-L2B	R2	23 W	S4	LC2	Yes	No	No	100%
248 - STORAGE										
LINE-VOLTAGE	-	1-L2B	H2	20 W	S4	LC1	Yes	No	No	100%
301 - VACANT										
0-10V	301a	2-L3A	H2	41 W	S2	LC2	Yes	No	No	100%
0-10V	301a	5-LSL2A	H2	81 W	S2	LC2	Yes	No	No	100%
0-10V	301a	2-L3A	H3	114 W	S2	LC2	Yes	No	No	100%
0-10V	301a	5-LSL2A	H3	76 W	S2	LC2	Yes	No	No	100%
0-10V	301aa	2-L3A	H2	41 W	S3	LC2	Yes	Yes	No	100%
0-10V	301aa	5-LSL2A	H2	61 W	S3	LC2	Yes	Yes	No	100%
0-10V	301aa	2-L3A	H3	266 W	S3	LC2	Yes	Yes	No	100%
0-10V	301aa	5-LSL2A	H3	190 W	S3	LC2	Yes	Yes	No	100%
302 - CORRIDOR										
0-10V	-	2-L3A	R1A	47 W	S4		Yes	No	No	100%
0-10V	-	5-LSL2A	R1A	47 W	S4		Yes	No	No	100%
303 - STAFF RESTROOM										
LINE-VOLTAGE	-	2-L3A	R1B	22 W	S4	LC1	Yes	No	No	100%
LINE-VOLTAGE	-	2-L3A	W1	12 W	S4	LC1	Yes	No	No	100%
304 - JC										
LINE-VOLTAGE	-	2-L3A	H1	11 W	S4	LC1	Yes	No	No	100%
305 - IT										
LINE-VOLTAGE	-	2-L3A	H2	20 W	S1	LC4	Yes	No	No	100%
LINE-VOLTAGE	-	5-LSL2A	H2	20 W	S1	LC4	Yes	No	No	100%
306 - WOMENS										
0-10V	306a	2-L3A	R1A	16 W	S4		Yes	No	No	100%
0-10V	306a	5-LSL2A	R1A	16 W	S4		Yes	No	No	100%
0-10V	306a	2-L3A	W1	12 W	S4		Yes	No	No	100%
0-10V	306b	2-L3A	C1	27 W	S5		Yes	No	No	100%
307 - MENS										
0-10V	307a	2-L3A	R1A	16 W	S4		Yes	No	No	100%
0-10V	307a	5-LSL2A	R1A	16 W	S4		Yes	No	No	100%
0-10V	307a	2-L3A	W1	12 W	S4		Yes	No	No	100%
0-10V	307b	2-L3A	C1	27 W	S5		Yes	No	No	100%
308 - ELEC										
LINE-VOLTAGE	-	5-LSL2A	H1	11 W	S4	LC1	Yes	No	No	100%
309 - CORRIDOR										
0-10V	-	4-L3A	P1	127 W	S5	LC2	Yes	No	No	100%
0-10V	-	5-LSL2A	P1	127 W	S5	LC2	Yes	No	No	100%
0-10V	-	3-L3A	P3	87 W	S5	LC2	Yes	No	No	100%
0-10V	-	2-L3A	R1A	31 W	S5	LC2	Yes	No	No	100%
0-10V	-	5-LSL2A	R1A	31 W	S5	LC2	Yes	No	No	100%
310 - WAITING										
0-10V	-	4-L3A	P1	69 W	S5		Yes	No	No	100%
0-10V	-	5-LSL2A	P1	29 W	S5		Yes	No	No	100%
0-10V	-	4-L3A	R1A	16 W	S5		Yes	No	No	100%
311 - CORRIDOR										
0-10V	-	4-L3A	P1	59 W	S4	LC2	Yes	No	No	100%
0-10V	-	5-LSL2A	P1	59 W	S4	LC2	Yes	No	No	100%
315 - WELLNESS										
0-10V	-	4-L3A	R1A	31 W	S2	LC2	Yes	No	No	100%
317 - OFFICE										
0-10V	-	4-L3A	F3	448 W	S2	LC2	Yes	No	No	100%
318 - OPEN OFFICE										
0-10V	318a	4-L3A	F3	90 W	S2	LC2	Yes	No	No	100%
0-10V	318b	4-L3A	P1	10 W	S2	LC2	Yes	No	No	100%
0-10V	318b	5-LSL2A	P1	10 W	S2	LC2	Yes	No	No	100%
0-10V	318b	4-L3A	R1A	16 W	S2	LC2	Yes	No	No	100%
0-10V	318b	5-LSL2A	R1A	31 W	S2	LC2	Yes	No	No	100%
318 - OPEN OFFICE CLOSET										
LINE-VOLTAGE	-	4-L3A	R1A	16 W	S4	LC1	Yes	No	No	100%
320 - STORAGE										
LINE-VOLTAGE	-	3-L3A	A2	31 W	S4	LC1	Yes	No	No	100%
321 - CONFERENCE										
0-10V	321a	3-L3A	L2B	28 W	S2	LC3	Yes	No	No	90%
0-10V	321b	3-L3A	R1A	94 W	S2	LC3	Yes	No	No	100%
322 - CONFERENCE										
0-10V	322a	3-L3A	A1	152 W	S2	LC3	Yes	No	No	40%
0-10V	322b	3-L3A	R1A	63 W	S2	LC3	Yes	No	No	100%
323 - CONFERENCE										
0-10V	323a	3-L3A	A1	152 W	S2	LC3	Yes	No	No	40%
0-10V	323b	3-L3A	R1A	63 W	S2	LC3	Yes	No	No	100%
324 - OFFICE										
0-10V	-	1-L3A	F1	51 W	S2	LC2	Yes	No	No	100%
325 - OFFICE										
0-10V	-	1-L3A	F1	51 W	S2	LC2	Yes	No	No	100%
326 - OFFICE										
0-10V	-	1-L3A	F1	51 W	S2	LC2	Yes	No	No	100%
327 - OFFICE										
0-10V	-	1-L3A	F1	51 W	S2	LC2	Yes	No	No	100%
328 - OFFICE										
0-10V	-	1-L3A	F1	51 W	S2	LC2	Yes	No	No	100%
329 - OFFICE										
0-10V	-	1-L3A	F1	51 W	S2	LC2

PANELBOARD: H3A

LOCATION: JC 304
MOUNTING: SURFACE NEMA 1
FED FROM: DPH
FEEDER: SEE ONE-LINE DIAGRAM

PANEL TYPE:
VOLTAGE: 480Y/277V / 3 ø / 4W
BUS AMPS: 600 AMPS
MAIN DEVICE: 600 A MAIN CB
A.I.C. RATING: 14,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	LOAD TYPE	BREAKER MOD	P	TRIP	CKT	A		B		C		CKT	TRIP	P	BREAKER MOD	LOAD TYPE	LOAD DESCRIPTION
RTU-1	MTR		3	100 A	1	18650	18650					2					
					3			18650	18650			4	100 A	3		MTR	RTU-2
					5					18650	18650	6					
RTU-3	MTR		3	100 A	7	18650	18650					8					
					9			18650	18650			10	100 A	3		MTR	RTU-4
					11					18650	18650	12					
EHAC-1 - ELEC HEAT	MTR; RCPT		3	45 A	13	9339	--					14	--	1		--	SPACE
					15			9339	--			16	--	1		--	SPACE
					17					9339	--	18	--	1		--	SPACE
SPACE	--		1	--	19	--	--					20	--	1		--	SPACE
SPACE	--		1	--	21			--	--			22	--	1		--	SPACE
SPACE	--		1	--	23					--	--	24	--	1		--	SPACE
SPACE	--		1	--	25	--	--					26	--	1		--	SPACE
SPACE	--		1	--	27			--	--			28	--	1		--	SPACE
SPACE	--		1	--	29					--	--	30	--	1		--	SPACE
SPACE	--		1	--	31	--	--					32	--	1		--	SPACE
SPACE	--		1	--	33			--	--			34	--	1		--	SPACE
SPACE	--		1	--	35					--	--	36	--	1		--	SPACE
SPACE	--		1	--	37	--	--					38	--	1		--	SPACE
SPACE	--		1	--	39			--	--			40	--	1		--	SPACE
SPACE	--		1	--	41					--	--	42	--	1		--	SPACE

Load Classification	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Motor	223802 VA	106.25%	237790 VA		
Receptacle	28018 VA	67.85%	19009 VA	CONNECTED LOAD:	251820 VA
				EST. DEMAND LOAD:	256799 VA
				CONNECTED CURRENT:	303 A
				EST. DEMAND CURRENT:	309 A

BREAKER MODIFIER LEGEND:
(G) - GROUND FAULT CIRCUIT INTERRUPTER. (A) - ARC FAULT CIRCUIT INTERRUPTER. (L) - LOCK-OUT PROVISIONS. (S) - SHUNT-TRIP.
(F) - FIRE ALARM CIRCUIT - PROVIDE LOCK-ON DEVICE AND PERMANENT RED MARKING AND LABELING AS "FIRE ALARM CIRCUIT".
NOTES:

PANELBOARD: DPL

LOCATION: ELEC. 120
MOUNTING: SURFACE NEMA 1
FED FROM: TDPL
FEEDER: SEE ONE-LINE DIAGRAM

PANEL TYPE:
VOLTAGE: 208Y/120V / 3 ø / 4W
BUS AMPS: 600 A
MAIN DEVICE: 600 A MAIN CB
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	LOAD TYPE	BREAKER MOD	P	TRIP	CKT	A		B		C		CKT	TRIP	P	BREAKER MOD	LOAD TYPE	LOAD DESCRIPTION
					1	17370	11860					2					
L1A	LTS; MTR; RCPT		3	225 A	3			13431	12290			4	225 A	3		MTR; RCPT	L1B
					5					14257	9390	6					
					7	14940	7333					8					
L2A	MTR; RCPT		3	225 A	9			11940	9017			10	225 A	3		LTS; RCPT	L2B
					11					12174	5850	12					
					13	21406	--					14	--	1		--	SPACE
L3A	LTS; MTR; RCPT		3	225 A	15			19006	--			16	--	1		--	SPACE
					17					22922	--	18	--	1		--	SPACE
SPACE	--		1	--	19	--	--					20	--	1		--	SPACE
SPACE	--		1	--	21			--	--			22	--	1		--	SPACE
SPACE	--		1	--	23					--	--	24	--	1		--	SPACE
SPACE	--		1	--	25	--	--					26	--	1		--	SPACE
SPACE	--		1	--	27			--	--			28	--	1		--	SPACE
SPACE	--		1	--	29					--	--	30	--	1		--	SPACE
SPACE	--		1	--	31	--	--					32	--	1		--	SPACE
SPACE	--		1	--	33			--	--			34	--	1		--	SPACE
SPACE	--		1	--	35					--	--	36	--	1		--	SPACE
SPACE	--		1	--	37	--	--					38	--	1		--	SPACE
SPACE	--		1	--	39			--	--			40	--	1		--	SPACE
SPACE	--		1	--	41					--	--	42	--	1		--	SPACE

Load Classification	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	12149 VA	125.00%	15187 VA		
Motor	20496 VA	105.58%	21640 VA	CONNECTED LOAD:	203186 VA
Receptacle	170540 VA	52.93%	90270 VA	EST. DEMAND LOAD:	127097 VA
				CONNECTED CURRENT:	564 A
				EST. DEMAND CURRENT:	353 A

BREAKER MODIFIER LEGEND:
(G) - GROUND FAULT CIRCUIT INTERRUPTER. (A) - ARC FAULT CIRCUIT INTERRUPTER. (L) - LOCK-OUT PROVISIONS. (S) - SHUNT-TRIP.
(F) - FIRE ALARM CIRCUIT - PROVIDE LOCK-ON DEVICE AND PERMANENT RED MARKING AND LABELING AS "FIRE ALARM CIRCUIT".
NOTES:

SWITCHBOARD: DPH

LOCATION: ELEC. 120
MOUNTING: SURFACE NEMA 1
FED FROM:
FEEDER: SEE ONE-LINE DIAGRAM

PANEL TYPE:
VOLTAGE: 480Y/277V / 3 ø / 4W
BUS AMPS: 1200 A
MAIN DEVICE: 1200 A MAIN CB
A.I.C. RATING: PER POWER SYSTEM STUDY
SPECIAL:

LOAD DESCRIPTION	LOAD TYPE	BREAKER MOD	P	TRIP	CKT	A		B		C		CKT	TRIP	P	BREAKER MOD	LOAD TYPE	LOAD DESCRIPTION
					1	72909	83940					2					
XFRM TDPL	LTS; MTR; RCPT		3	300 A	3			65685	83940			4	600 A	3		MTR; RCPT	PANEL H3A
					5					64593	83940	6					
					7	9422	0					8					
EX ELEVATOR	MTR		3	100 A	9			9422	0			10	60 A	3		--	SPD
					11					9422	0	12					
					13	7482	1330					14					
FIRE PUMP FP-1	MTR		3	200 A	15			7482	1330			16	35 A	3		MTR	JOCKEY PUMP JP-1
					17					7482	1330	18					
SPACE	--		1	--	19	--	7673					20					
SPACE	--		1	--	21			--	9661			22	30 A	3		MTR; RCPT	TSBL2A
SPACE	--		1	--	23					--	9361	24					
SPACE	--		1	--	25	--	849					26					
SPACE	--		1	--	27			--	1270			28	20 A	3		OTHR; LTS;	TLSL2A
SPACE	--		1	--	29					--	1701	30					
SPACE	--		1	--	31	--	--					32	--	1		--	SPACE
SPACE	--		1	--	33			--	--			34	--	1		--	SPACE
SPACE	--		1	--	35					--	--	36	--	1		--	SPACE
SPACE	--		1	--	37	--	--					38	--	1		--	SPACE
SPACE	--		1	--	39			--	--			40	--	1		--	SPACE
SPACE	--		1	--	41					--	--	42	--	1		--	SPACE

Load Classification	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	15368 VA	125.00%	19210 VA		
Motor	324798 VA	104.31%	338786 VA	CONNECTED LOAD:	540224 VA
Other	600 VA	100.00%	600 VA	EST. DEMAND LOAD:	463325 VA
Receptacle	199458 VA	52.51%	104729 VA		
				CONNECTED CURRENT:	650 A
				EST. DEMAND CURRENT:	557 A

BREAKER MODIFIER LEGEND:
(G) - GROUND FAULT CIRCUIT INTERRUPTER. (A) - ARC FAULT CIRCUIT INTERRUPTER. (L) - LOCK-OUT PROVISIONS. (S) - SHUNT-TRIP.
(F) - FIRE ALARM CIRCUIT - PROVIDE LOCK-ON DEVICE AND PERMANENT RED MARKING AND LABELING AS "FIRE ALARM CIRCUIT".
NOTES:
CONFIRM EXACT SPD BREAKER SIZE WITH SPD MANUFACTURER

PANELBOARD: SBL2A

LOCATION: JC 218
MOUNTING: SURFACE NEMA1
FED FROM: TSBL2A
FEEDER: SEE ONE-LINE DIAGRAM

PANEL TYPE:
VOLTAGE: 208Y/120V / 3 ø / 4W
BUS AMPS: 100 AMPS
MAIN DEVICE: 100 A MAIN CB
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	LOAD TYPE	BREAKER MOD	P	TRIP	CKT	A		B		C		CKT	TRIP	P	BREAKER MOD	LOAD TYPE	LOAD DESCRIPTION
B-1	MTR; RCPT		1	15 A	1	300	300					2	15 A	1		MTR; RCPT	B-2
B-3	MTR; RCPT		1	15 A	3			300	1435			4	20 A	2		MTR	BP-1
BP-2	MTR		2	20 A	5					1435	1435	6					
					7	1435	2101					8					
HWP-1	MTR		3	35 A	9			2101	2101			10	35 A	3		MTR	HWP-2
					11					2101	2101	12					
					13	2101	1435					14	20 A	2		MTR	BP-3
CU-1	MTR		2	25 A	15			2288	1435			16					
					17					2288	0	18					
SPACE	--		1	--	19	--	0					20	30 A	3		--	SPD
SPACE	--		1	--	21			--	0			22					
SPACE	--		1	--	23					--	--	24	--	1		--	SPACE
SPACE	--		1	--	25	--	--					26	--	1		--	SPACE
SPACE	--		1	--	27			--	--			28	--	1		--	SPACE
SPACE	--		1	--	29					--	--	30	--	1		--	SPACE
SPACE	--		1	--	31	--	--					32	--	1		--	SPACE
SPACE	--		1	--	33			--	--			34	--	1		--	SPACE
SPACE	--		1	--	35					--	--	36	--	1		--	SPACE
SPACE	--		1	--	37	--	--					38	--	1		--	SPACE
SPACE	--		1	--	39			--	--			40	--	1		--	SPACE
SPACE	--		1	--	41					--	--	42	--	1		--	SPACE

Load Classification	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Motor	25796 VA	106.11%	27372 VA		
Receptacle	900 VA	100.00%	900 VA	CONNECTED LOAD:	26696 VA
				EST. DEMAND LOAD:	28272 VA
				CONNECTED CURRENT:	74 A
				EST. DEMAND CURRENT:	78 A

BREAKER MODIFIER LEGEND:
(G) - GROUND FAULT CIRCUIT INTERRUPTER. (A) - ARC FAULT CIRCUIT INTERRUPTER. (L) - LOCK-OUT PROVISIONS. (S) - SHUNT-TRIP.
(F) - FIRE ALARM CIRCUIT - PROVIDE LOCK-ON DEVICE AND PERMANENT RED MARKING AND LABELING AS "FIRE ALARM CIRCUIT".
NOTES:

PANELBOARD: LSL2A

LOCATION: JC 218
MOUNTING: SURFACE NEMA1
FED FROM: TLSL2A
FEEDER: SEE ONE-LINE DIAGRAM

PANEL TYPE:
VOLTAGE: 208Y/120V / 3 ø / 4W
BUS AMPS: 100 AMPS
MAIN DEVICE: 60 A MAIN CB
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	LOAD TYPE	BREAKER MOD	P	TRIP	CKT	A		B		C		CKT	TRIP	P	BREAKER MOD	LOAD TYPE	LOAD DESCRIPTION
EM LTG - FIRST FLR	LTS		1	20 A	1	849	0					2					
EM LTG - SECOND FLR	LTS		1	20 A	3			1270	0			4	30 A	3		--	SPD
EM LTG - THIRD FLR, STAIR	OTHR; LTS		1	20 A	5					1701	0	6					
SPARE	--		1	20 A	7	0	0					8	20 A	1		--	SPARE
SPARE	--		1	20 A	9			0	0			10	20 A	1		--	SPARE
SPACE	--		1	--	11					--	--	12	--	1		--	SPACE
SPACE	--		1	--	13	--	--					14	--	1		--	SPACE
SPACE	--		1	--	15			--	--			16	--	1		--	SPACE
SPACE	--		1	--	17					--	--	18	--	1		--	SPACE
SPACE	--		1	--	19	--	--					20	--	1		--	SPACE

Load Classification	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	3219 VA	125.00%	4024 VA		
Other	600 VA	100.00%	600 VA	CONNECTED LOAD:	3819 VA
				EST. DEMAND LOAD:	4624 VA
				CONNECTED CURRENT:	11 A
				EST. DEMAND CURRENT:	13 A

BREAKER MODIFIER LEGEND:
(G) - GROUND FAULT CIRCUIT INTERRUPTER. (A) - ARC FAULT CIRCUIT INTERRUPTER. (L) - LOCK-OUT PROVISIONS. (S) - SHUNT-TRIP.
(F) - FIRE ALARM CIRCUIT - PROVIDE LOCK-ON DEVICE AND PERMANENT RED MARKING AND LABELING AS "FIRE ALARM CIRCUIT".
NOTES:
CONFIRM EXACT SPD BREAKER SIZE WITH SPD MANUFACTURER

PROGRESSIVE AE, INC.
PROGRESSIVE COMPANIES
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ISABELLA COUNTY
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INTERIOR RENOVATION
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ISSUANCE
10/13/2026 BIDS

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
D. HERSCHER
DRAWN BY
G. GISCHIA
CHECKED BY
D. HERSCHER

ELECTRICAL PANEL SCHEDULES
E603

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BY: - EBID
E603 ELECTRICAL PANEL SCHEDULES
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PANELBOARD: L1B

LOCATION: ELEC. 120
MOUNTING: SURFACE NEMA 1
FED FROM: DPL
FEEDER: SEE ONE-LINE DIAGRAM

PANEL TYPE:
VOLTAGE: 208Y/120V / 3 ø / 4W
BUS AMPS: 225 AMPS
MAIN DEVICE: 225 A MLO
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	LOAD TYPE	BREAKER MOD	P	TRIP	CKT	A		B		C		CKT	TRIP	P	BREAKER MOD	LOAD TYPE	LOAD DESCRIPTION
145 - RCPTS	RCPT		1	20 A	1	1080	1080					2	20 A	1		RCPT	143, 144 - RCPTS
145 - EWC	RCPT	(G)	1	20 A	3			800	1200			4	20 A	1		RCPT	151 COPIER
151 PLOTTER	RCPT		1	20 A	5					180	1440	6	20 A	1		RCPT	127, 128, 131, 133 - RCPTS
126, 145 - RCPTS	RCPT		1	20 A	7	1260	1200					8	20 A	1		RCPT	130 - COPIER
130, 132 - RCPTS	RCPT		1	20 A	9			1080	1440			10	20 A	1		RCPT	134 - RCPTS
130 - RCPTS	RCPT		1	20 A	11					720	540	12	20 A	1		RCPT	136 - RCPTS
136, 138, 139 - RCPTS	RCPT		1	20 A	13	1080	1200					14	20 A	1		RCPT	136 - COPIER
135 - RCPTS	RCPT		1	20 A	15			1440	1260			16	20 A	1		RCPT	142 - RCPTS
140, 141 - RCPTS	RCPT		1	20 A	17					1080	1200	18	20 A	1		RCPT	GEN. BATTERY CHARGER
GEN. BLOCK HEATER	RCPT		1	20 A	19	1200	180					20	20 A	1		RCPT	142 - RCPTS
149 - RCPT	RCPT		1	20 A	21			180	1200			22	20 A	1		RCPT	142 - COPIER
DWH-1	MTR; RCPT		1	20 A	23					180	900	24	20 A	1		RCPT	142 - RCPTS
RP-1	MTR		1	20 A	25	180	1350					26	20 A	2		RCPT	130, 136 - FURNITURE FEEDS
145 - FURNITURE FEED	RCPT		1	20 A	27			720	1350			28					
142 - PLOTTER	RCPT		1	20 A	29					180	1350	30	20 A	2		RCPT	130, 136 - FURNITURE FEEDS
EX SUMP PUMP	RCPT		1	20 A	31	700	1350					32					
142 - FURNITURE FEEDS	RCPT		2	20 A	33			810	810			34	20 A	2		RCPT	142 - FURNITURE FEEDS
					35					810	810	36					
SPARE	--		1	20 A	37	0	0					38	20 A	1		--	SPARE
SPARE	--		1	20 A	39			0	0			40	20 A	1		--	SPARE
SPARE	--		1	20 A	41					0	0	42	20 A	1		--	SPARE
SPACE	--		1	--	43	--	--					44	--	1		--	SPACE
SPACE	--		1	--	45			--	--			46	--	1		--	SPACE
SPACE	--		1	--	47					--	--	48	--	1		--	SPACE
SPACE	--		1	--	49	--	--					50	--	1		--	SPACE
SPACE	--		1	--	51			--	--			52	--	1		--	SPACE
SPACE	--		1	--	53					--	--	54	--	1		--	SPACE
SPACE	--		1	--	55	--	--					56	--	1		--	SPACE
SPACE	--		1	--	57			--	--			58	--	1		--	SPACE
SPACE	--		1	--	59					--	--	60	--	1		--	SPACE
SPACE	--		1	--	61	--	--					62	--	1		--	SPACE
SPACE	--		1	--	63			--	--			64	--	1		--	SPACE
SPACE	--		1	--	65					--	--	66	--	1		--	SPACE
SPACE	--		1	--	67	--	0					68					
SPACE	--		1	--	69			--	0			70	20 A	3		--	SPD
SPACE	--		1	--	71					--	0	72					

Load Classification	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Motor	180 VA	125.00%	225 VA		
Receptacle	33360 VA	64.99%	21680 VA	**CONNECTED LOAD:**	33540 VA
				EST. DEMAND LOAD:	21905 VA
				CONNECTED CURRENT:	93 A
				EST. DEMAND CURRENT:	61 A

BREAKER MODIFIER LEGEND:
(G) - GROUND FAULT CIRCUIT INTERRUPTER. (A) - ARC FAULT CIRCUIT INTERRUPTER. (L) - LOCK-OUT PROVISIONS. (S) - SHUNT-TRIP.
(F) - FIRE ALARM CIRCUIT - PROVIDE LOCK-ON DEVICE AND PERMANENT RED MARKING AND LABELING AS "FIRE ALARM CIRCUIT".

NOTES:

PANELBOARD: L1A

LOCATION: ELEC. 120
MOUNTING: SURFACE NEMA 1
FED FROM: DPL
FEEDER: SEE ONE-LINE DIAGRAM

PANEL TYPE:
VOLTAGE: 208Y/120V / 3 ø / 4W
BUS AMPS: 225 AMPS
MAIN DEVICE: 225 A MLO
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	LOAD TYPE	BREAKER MOD	P	TRIP	CKT	A		B		C		CKT	TRIP	P	BREAKER MOD	LOAD TYPE	LOAD DESCRIPTION
1ST FLOOR LIGHTING NW	LTS		1	20 A	1	1237	1416					2	20 A	1		LTS	1ST FLOOR LIGHTING SW
1ST FLOOR LIGHTING NE	LTS		1	20 A	3			761	713			4	20 A	1		LTS	1ST FLOOR LIGHTING SE
101, 102 RCPTS	RCPT		1	20 A	5					1080	1080	6	20 A	1		RCPT	100, 149, 151 - RCPTS
103, 104, 105 - RCPTS	RCPT		1	20 A	7	1080	1080					8	20 A	1		RCPT	109, 110, 112 - RCPTS
106, 107, 108 - RCPTS	RCPT		1	20 A	9			1260	360			10	20 A	1		RCPT	113 - RCPTS
114 RCPTS	RCPT		1	20 A	11					360	180	12	20 A	1		RCPT	114 UNDER CABINET FRIDGE
115, 116, 117 - RCPTS	RCPT		1	20 A	13	1200	1300					14	20 A	1		RCPT	121, 226 - RCPTS
119, 120, 150 - RCPTS	RCPT		1	20 A	15			1260	720			16	20 A	1		RCPT	123 - RCPTS
122, 124, 125 - RCPTS	RCPT		1	20 A	17					1620	1080	18	20 A	1		RCPT	124 - RCPTS
124 - COPIER	RCPT		1	20 A	19	1200	800					20	20 A	1		RCPT	112 - IT RACK
112 - IT RACK	RCPT		1	20 A	21			800	800			22	20 A	1		RCPT	112 - IT RACK
112 - IT RACK	RCPT		1	20 A	23					800	2100	24	30 A	2		RCPT	112 - IT RACK
112 - IT RACK	RCPT		2	30 A	25	2100	2100					26					
					27			2100	2100			28	30 A	2		RCPT	112 - IT RACK
112 - IT RACK	RCPT		2	30 A	29					2100	2100	30					
					31	2100	1357					32					
123 - COPIER	RCPT		1	20 A	33			1200	1357			34	30 A	3		MTR	DCBP-1
112 - IT PNL	RCPT		1	20 A	35					400	1357	36					
112 - IT PNL	RCPT		1	20 A	37	400	0					38	20 A	1		--	SPARE
SPARE	--		1	20 A	39			0	0			40	20 A	1		--	SPARE
SPARE	--		1	20 A	41					0	0	42	20 A	1		--	SPARE
SPARE	--		1	20 A	43	0	0					44	20 A	1		--	SPARE
SPACE	--		1	--	45			--	--			46	--	1		--	SPACE
SPACE	--		1	--	47					--	--	48	--	1		--	SPACE
SPACE	--		1	--	49	--	--					50	--	1		--	SPACE
SPACE	--		1	--	51			--	--			52	--	1		--	SPACE
SPACE	--		1	--	53					--	--	54	--	1		--	SPACE
SPACE	--		1	--	55	--	--					56	--	1		--	SPACE
SPACE	--		1	--	57			--	--			58	--	1		--	SPACE
SPACE	--		1	--	59					--	--	60	--	1		--	SPACE
SPACE	--		1	--	61	--	--					62	--	1		--	SPACE
SPACE	--		1	--	63			--	--			64	--	1		--	SPACE
SPACE	--		1	--	65					--	--	66	--	1		--	SPACE
SPACE	--		1	--	67	--	0					68					
SPACE	--		1	--	69			--	0			70	20 A	3		--	SPD
SPACE	--		1	--	71					--	0	72					

Load Classification	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	4127 VA	125.00%	5159 VA		
Motor	4071 VA	125.00%	5089 VA	**CONNECTED LOAD:**	45058 VA
Receptacle	36860 VA	63.56%	23430 VA	**EST. DEMAND LOAD:**	33677 VA
				CONNECTED CURRENT:	125 A
				EST. DEMAND CURRENT:	93 A

BREAKER MODIFIER LEGEND:
(G) - GROUND FAULT CIRCUIT INTERRUPTER. (A) - ARC FAULT CIRCUIT INTERRUPTER. (L) - LOCK-OUT PROVISIONS. (S) - SHUNT-TRIP.
(F) - FIRE ALARM CIRCUIT - PROVIDE LOCK-ON DEVICE AND PERMANENT RED MARKING AND LABELING AS "FIRE ALARM CIRCUIT".

NOTES:

PANELBOARD: L3A

LOCATION: JC 304
MOUNTING: SURFACE NEMA 1
FED FROM: DPL
FEEDER: SEE ONE-LINE DIAGRAM

PANEL TYPE:
VOLTAGE: 208Y/120V / 3 ø / 4W
BUS AMPS: 225 AMPS
MAIN DEVICE: 225 A MLO
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	LOAD TYPE	BREAKER MOD	P	TRIP	CKT	A		B		C		CKT	TRIP	P	BREAKER MOD	LOAD TYPE	LOAD DESCRIPTION
3RD FLOOR LIGHTING NW	LTS		1	20 A	1	1182	747					2	20 A	1		LTS	3RD FLOOR LIGHTING EAST
3RD FLOOR LIGHTING...	LTS		1	20 A	3			670	944			4	20 A	1		LTS	3RD FLOOR LIGHTING SW
301 - RCPTS	RCPT		1	20 A	5					1080	1080	6	20 A	1		RCPT	301 - RCPTS
303, 305 - RCPTS	RCPT		1	20 A	7	360	1080					8	20 A	1		RCPT	301 - RCPTS
309 - EWC	RCPT	(G)	1	20 A	9			800	1080			10	20 A	1		RCPT	301, 310 - RCPTS
311, 313 - RCPTS	RCPT		1	20 A	11					1260	1180	12	20 A	1		RCPT	304, 306, 307 - RCPTS
314, 316 - RCPTS	RCPT		1	20 A	13	1440	1080					14	20 A	1		RCPT	309 - RCPTS
315, 318 - RCPTS	RCPT		1	20 A	15			360	1200			16	20 A	1		RCPT	311 - COPIER
319, 320 - RCPTS	RCPT		1	20 A	17					1260	180	18	20 A	1	(G)	RCPT	315 - UNDER CABINET...
322 - RCPTS	RCPT		1	20 A	19	1080	1440					20	20 A	1		RCPT	317, 324 - RCPTS
325, 326 - RCPTS	RCPT		1	20 A	21			1440	1260			22	20 A	1		RCPT	321 - RCPTS
331, 332 - RCPTS	RCPT		1	20 A	23					1440	1080	24	20 A	1		RCPT	323 - RCPTS
335 - RCPTS	RCPT		1	20 A	25	720	1260					26	20 A	1		RCPT	327, 328 - RCPTS
335 - UNDER CABINET...	RCPT	(G)	1	20 A	27			180	1440			28	20 A	1		RCPT	329, 330 - RCPTS
335, 336, 340 - RCPTS	RCPT		1	20 A	29					1260	1440	30	20 A	1		RCPT	333, 334 - RCPTS
338 - UNDER CABINET...	RCPT	(G)	1	20 A	31	180	180					32	20 A	1		RCPT	335 - COFFEE MAKER
305 - IT RACK	RCPT		1	20 A	33			800	1200			34	20 A	1		RCPT	335 - COPIER
EF-1	MTR		1	20 A	35					1200	1440	36	20 A	1		RCPT	337, 339 - RCPTS
CU-2	MTR	2	20 A	37	1664	800						38	20 A	1		RCPT	305 - IT RACK
				39			1664	1664				40	20 A	2		MTR	CU-3
CU-4	MTR	2	25 A	41					2288	1664		42					
				43	2288	360						44	20 A	1		RCPT	ROOFTOP RCPTS
309 - FURNITURE FEED	RCPT		1	20 A	45			720	540			46	20 A	1		RCPT	ROOFTOP RCPTS
335 - POKE-THRUS	RCPT		1	20 A	47					1080	945	48					
305 - IT RACK	RCPT	2	30 A	49	2100	945						50	20 A	2		RCPT	318, 335 - FURNITURE FEEDS
				51			2100	945				52					
305 - IT RACK	RCPT	2	30 A	53					2100	945		54	20 A	2		RCPT	318, 335 - FURNITURE FEEDS
				55	2100	400						56	20 A	1		RCPT	305 - IT PNL
SPARE	--		1	20 A	57			0	0			58	20 A	1		--	SPARE
SPARE	--		1	20 A	59					0	0	60	20 A	1		--	SPARE
SPARE	--		1	20 A	61	0	0					62	20 A	1		--	SPARE
SPARE	--		1	20 A	63			0	0			64	20 A	1		--	SPARE
SPARE	--		1	20 A	65					0	0	66	20 A	1		--	SPARE
SPARE	--		1	20 A	67	0	0					68					
SPARE	--		1	20 A	69			0	0			70	30 A	3		--	SPD
SPARE	--		1	20 A	71					0	0	72					

Load Classification	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	3542 VA	125.00%	4428 VA		
Motor	12432 VA	109.20%	13576 VA	**CONNECTED LOAD:**	63334 VA
Receptacle	47360 VA	60.56%	28680 VA	**EST. DEMAND LOAD:**	46684 VA
				CONNECTED CURRENT:	176 A
				EST. DEMAND CURRENT:	130 A

BREAKER MODIFIER LEGEND:
(G) - GROUND FAULT CIRCUIT INTERRUPTER. (A) - ARC FAULT CIRCUIT INTERRUPTER. (L) - LOCK-OUT PROVISIONS. (S) - SHUNT-TRIP.
(F) - FIRE ALARM CIRCUIT - PROVIDE LOCK-ON DEVICE AND PERMANENT RED MARKING AND LABELING AS "FIRE ALARM CIRCUIT".

NOTES:

PANELBOARD: L2B

LOCATION: JC 218
MOUNTING: SURFACE NEMA 1
FED FROM: DPL
FEEDER: SEE ONE-LINE DIAGRAM

PANEL TYPE:
VOLTAGE: 208Y/120V / 3 ø / 4W
BUS AMPS: 225 AMPS
MAIN DEVICE: 225 A MLO
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	LOAD TYPE	BREAKER MOD	P	TRIP	CKT	A		B		C		CKT	TRIP	P	BREAKER MOD	LOAD TYPE	LOAD DESCRIPTION
2ND FLOOR LIGHTING SE	LTS		1	20 A	1	672	1230					2	20 A	1		LTS	2ND FLOOR LIGHTING SW
2ND FLOOR LIGHTING NW	LTS		1	20 A	3			1020	1557			4	20 A	1		LTS	2ND FLOOR LIGHTING NE
228, 237 - RCPTS	RCPT		1	20 A	5					900	1440	6	20 A	1		RCPT	220, 232 - RCPTS
230 - RCPTS	RCPT		1	20 A	7	1260	1200					8	20 A	1		RCPT	230 - COPIER
229, 230, 235 - RCPTS	RCPT		1	20 A	9			1080	1260			10	20 A	1		RCPT	234, 238 - RCPTS
233 - RCPTS	RCPT		1	20 A	11					1080	180	12	20 A	1	(G)	RCPT	239 - FRIDGE
236 - RCPTS	RCPT		1	20 A	13	1080	180					14	20 A	1		RCPT	239 - COFFEE MAKER
236 - COPIER	RCPT		1	20 A	15			1200	1080			16	20 A	1		RCPT	239 - RCPTS
239 - MICROWAVE	RCPT	(G)	1	20 A	17					180	1260	18	20 A	1		RCPT	240 - RCPTS
239 - MICROWAVE	RCPT	(G)	1	20 A	19	180	720					20	20 A	1		RCPT	152, 236 - RCPTS
240 - FURNITURE FEED	RCPT		1	20 A	21			200	810			22	20 A	2		RCPT	203, 236 - FURNITURE FEEDS
SPARE	--		1	20 A	23					0	810	24					
SPARE	--		1	20 A	25	0	810					26	20 A	2		RCPT	203, 236 - FURNITURE FEEDS
SPARE	--		1	20 A	27			0	810			28					
SPARE	--		1	20 A	29					0	0	30	20 A	1		--	SPARE
SPACE	--		1	--	31	--	0					32	20 A	1		--	SPARE
SPACE	--		1	--	33			--	--			34	--	1		--	SPACE
SPACE	--		1	--	35					--	--	36	--	1		--	SPACE
SPACE	--		1	--	37	--	--					38	--	1		--	SPACE
SPACE	--		1	--	39			--	--			40	--	1		--	SPACE
SPACE	--		1	--	41					--	--	42	--	1		--	SPACE
SPACE	--		1	--	43	--	--					44	--	1		--	SPACE
SPACE	--		1	--	45			--	--			46	--	1		--	SPACE
SPACE	--		1	--	47					--	--	48	--	1		--	SPACE
SPACE	--		1	--	49	--	--					50	--	1		--	SPACE
SPACE	--		1	--	51			--	--			52	--	1		--	SPACE
SPACE	--		1	--	53					--	--	54	--	1		--	SPACE
SPACE	--		1	--	55	--	--					56	--	1		--	SPACE
SPACE	--		1	--	57			--	--			58	--	1		--	SPACE
SPACE	--		1	--	59					--	--	60	--	1		--	SPACE
SPACE	--		1	--	61	--	--					62	--	1		--	SPACE
SPACE	--		1	--	63			--	--			64	--	1		--	SPACE
SPACE	--		1	--	65					--	--	66	--	1		--	SPACE
SPACE	--		1	--	67	--	0					68					
SPACE	--		1	--	69			--	0			70	30 A	3		--	SPD
SPACE	--		1	--	71					--	0	72					

Load Classification	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	4480 VA	125.00%	5600 VA		
Receptacle	17720 VA	78.22%	13860 VA	**CONNECTED LOAD:**	22200 VA
				EST. DEMAND LOAD:	19460 VA
				CONNECTED CURRENT:	62 A
				EST. DEMAND CURRENT:	54 A

BREAKER MODIFIER LEGEND:
(G) - GROUND FAULT CIRCUIT INTERRUPTER. (A) - ARC FAULT CIRCUIT INTERRUPTER. (L) - LOCK-OUT PROVISIONS. (S) - SHUNT-TRIP.
(F) - FIRE ALARM CIRCUIT - PROVIDE LOCK-ON DEVICE AND PERMANENT RED MARKING AND LABELING AS "FIRE ALARM CIRCUIT".

NOTES:

PANELBOARD: L2A

LOCATION: JC 218
MOUNTING: SURFACE NEMA 1
FED FROM: DPL
FEEDER: SEE ONE-LINE DIAGRAM

PANEL TYPE:
VOLTAGE: 208Y/120V / 3 ø / 4W
BUS AMPS: 225 AMPS
MAIN DEVICE: 225 A MLO
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	LOAD TYPE	BREAKER MOD	P	TRIP	CKT	A		B		C		CKT	TRIP	P	BREAKER MOD	LOAD TYPE	LOAD DESCRIPTION
201 - RCPTS	RCPT		1	20 A	1	1080	900					2	20 A	1		RCPT	203 - RCPTS
202, 203 - RCPTS	RCPT		1	20 A	3			540	1200			4	20 A	1		RCPT	203 - COPIER
205, 206 - RCPTS	RCPT		1	20 A	5					1440	1260	6	20 A	1		RCPT	203, 204, 207 - RCPTS
207 - RCPTS	RCPT		1	20 A	7	900	540					8	20 A	1		RCPT	208 - RCPTS
209, 210, 213 - RCPTS	RCPT		1	20 A	9			1260	1040			10	20 A	1		RCPT	211, 214, 215 - RCPTS
211 - UNDER CABINET...	RCPT	(G)	1	20 A	11					180	860	12	20 A	1		RCPT	216, 218, 219 - RCPTS
221, 224, 247, 248 - RCPTS	RCPT		1	20 A	13	1080	1080					14	20 A	1		RCPT	221 - RCPTS
217, 225 - RCPTS	RCPT		1	20 A	15			1000	1260			16	20 A	1		RCPT	223 - RCPTS
226, 288 - RCPTS	RCPT		1	20 A	17					720	180	18	20 A	1		RCPT	226 - COFFEE MAKER
226 - RCPTS	RCPT		1	20 A	19	1260	180					20	20 A	1	(G)	RCPT	226 UNDER CABINET FRIDGE
226 - RCPTS	RCPT		1	20 A	21			900	800			22	20 A	1	(G)	RCPT	240 - EWC
CUH-1	MTR		1	20 A	23					527	527	24	20 A	1		MTR	CUH-2
219 - IT RACK	RCPT		1	20 A	25	800	480					26	20 A	1		MTR	DOOR OPERATOR - 227A,B
219 - IT RACK	RCPT		1	20 A	27			800	240			28	20 A	1		MTR	DOOR OPERATOR - 226A
219 - IT RACK	RCPT		2	30 A	29					2100	180	30	15 A	1		RCPT	UNDER DESK RACK - 224
					31	2100	2040					32	25 A	1		MTR	EHAC-1 - MOTORS
219 - IT RACK	RCPT		2	30 A	33			2100	800			34	20 A	1		RCPT	224 - IT RACK
					35					2100	2100	36	20 A	2		RCPT	224 - IT RACK
219 - IT PNL	RCPT		1	20 A	37	400	2100					38					
SPARE	--		1	20 A	39			0	0			40	20 A	1		--	SPARE
SPARE	--		1	20 A	41					0	0	42	20 A	1		--	SPARE
SPARE	--		1	20 A	43	0	0					44	20 A	1		--	SPARE
SPACE	--		1	--	45			--	--			46	--	1		--	SPACE
SPACE	--		1	--	47					--	--	48	--	1		--	SPACE
SPACE	--		1	--	49	--	--					50	--	1		--	SPACE
SPACE	--		1	--	51			--	--			52	--	1		--	SPACE
SPACE	--		1	--	53					--	--	54	--	1		--	SPACE
SPACE	--		1	--	55	--	--					56	--	1		--	SPACE
SPACE	--		1	--	57			--	--			58	--	1		--	SPACE
SPACE	--		1	--	59					--	--	60	--	1		--	SPACE
SPACE	--		1	--	61	--	--					62	--	1		--	SPACE
SPACE	--		1	--	63			--	--			64	--	1		--	SPACE
SPACE	--		1	--	65					--	--	66	--	1		--	SPACE
SPACE	--		1	--	67	--	0					68					
SPACE	--		1	--	69			--	0			70	30 A	3		--	SPD
SPACE	--		1	--	71					--	0	72					

Load Classification	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Motor	3814 VA	113.37%	4324 VA		
Receptacle	35240 VA	64.19%	22620 VA	**CONNECTED LOAD:**	39054 VA
				EST. DEMAND LOAD:	26944 VA
				CONNECTED CURRENT:	108 A
				EST. DEMAND CURRENT:	75 A

BREAKER MODIFIER LEGEND:
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ISSUANCE
10/13/2026 BIDS

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23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
D. HERSCHER
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G. GISCHIA
CHECKED BY
D. HERSCHER

ELECTRICAL PANEL SCHEDULES
E604

24.2.002
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BY: GISCHIA
FILE: E604 ELECTRICAL PANEL SCHEDULES
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ICT ABBREVIATIONS

Term / Acronym	Definition
8P8C	Eight Position, Eight Conductor modular Jack. Often referred to as "RJ-45".
AFF	Above Finished Floor
ANSI	American National Standard Institute
ATM	Asynchronous Transfer Mode
AWG	American Wire Gauge
BAS	Building Automation System
CDDI	Fiber Distributed Data Interface over Copper
cm	Centimeters
CM	Communications cable rated for general purpose use
CMP	Communications cable rated for use in plenum areas
CMR	Communications cable rated for use in risers and vertical runs
dB	Decibel
DC	Data Center
DTMF	Dual Tone Multi Frequency
EIA	Electronic Industries Association
EMI	Electromagnetic Interference
EF	Entrance Facility
EIDF	Equipment Intermediate Distribution Facility
ELFEXT	Equal-Level Far-End Cross Talk (pair-to-pair)
ER	Equipment Room
FCC	Federal Communications Commission
FDDI	Fiber Distributed Data Interface
FTP	Foil Twisted Pair
F/UTP	Foil/Unshielded Twisted Pair
ft.	Feet
HCP	Horizontal Connection Point
HDPE	High Density Polyethylene
IEEE	Institute of Electrical and Electronic Engineers
IDF	Intermediate Distribution Frame (archaic version of TR)
in.	Inch
kg.	Kilogram
lbs.	Pounds
LAN	Local Area Network
m	Meters
mm	Millimeters
Mbps	Megabits per second
MDF	Main Distribution Frame (archaic version of MER)
MER	Main Equipment Room
MHz	Mega Hertz (1E6 Hz)
MUTOA	Multi-user telecommunications outlet assembly
µm	Micrometer or micron (10E-6 meter)
N	Newton
N-m	Newton-meter
NEXT	Near End Cross Talk
OFCP	Optical Fiber Conductive Plenum
OFCR	Optical Fiber Conductive Riser
OFNP	Optical Fiber Nonconductive Plenum
OFNR	Optical Fiber Nonconductive Riser
OTDR	Optical Time Domain Reflectometer
PBX	Private Branch Exchange (Telephone Switch)
pF	Pico Farad (10E-12 Farad)
PoE	Power over ethernet
PS	Power Sum
PTZ	Pan Tilt Zoom
PSNEXT	Power Sum Near End Cross Talk
PVC	Polyvinyl Chloride
RCDD	Registered Communications Distribution Designer
RL	Return Loss
RU	Rack Unit (1.75 inches)
ScTP	Screened Twisted Pair
STP	Shielded Twisted Pair
TIA	Telecommunications Industry Association
TOC	Tech Ops Center
TR	Telecommunications Room
USOC	Universal Service Order Code
UTP	Unshielded Twisted Pair
WAN	Wide Area Network

AUDIOVISUAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)
TM	TELEVISION MONITOR, TYPE AS NOTED	60"
CL	WALL MOUNTED CLOCK, TYPE AS NOTED	84"
IC	INTERCOM STATION, TYPE AS NOTED	46"
VI	INTERCOM - AUDIOVISUAL STATION, TYPE AS NOTED	46"
S	LOUDSPEAKER, TYPE AS NOTED	
M	MICROPHONE, TYPE AS NOTED	
M	GOOSE NECK MICROPHONE	
E	SOUND MASKING EMITTER, TYPE AS NOTED	
S V	VOLUME CONTROL KNOB	46"
M	MICROPHONE OUTLET, TYPE AS NOTED	18"
P	PROJECTOR CONTROL OUTLET, TYPE AS NOTED	18"
M	OUTLET IN FLOOR (MICROPHONE SHOWN), TYPE AS NOTED	
AE	EDID/ AUDIO EXTRACTOR, TYPE AS NOTED	
H	AUDIOVISUAL OUTLET, WITH HDMI, USB OR OTHER CONNECTORS AS NOTED, ROUTE CONDUIT TO ACCESSIBLE CEILING OR CABLE TRAY, UNO. SEE DETAILS ON T502 FOR LAYOUT.	18"
MA	AMPLIFIER, TYPE AS NOTED	
MM	MAIN MONITOR / TV, TYPE AS NOTED	
A	WALL MOUNTED AURACAST PLAQUE	
A	CEILING MOUNTED AURACAST TRANSMITTER	
B	CEILING MOUNTED BELL/CHIME, TYPE AS NOTED	
B	WALL MOUNTED BELL/CHIME, TYPE AS NOTED	84"
PB	PUSH BUTTON SWITCH IN SINGLE GANG FACE PLATE; MOUNTED AS SHOWN, TYPE AS NOTED	
LS	CEILING MOUNTED LIGHT STROBE, TYPE AS NOTED	
TP	TOUCHSCREEN PANEL, WALL-MOUNTED, TYPE AND ZONE CONTROL AS NOTED	46"
WP	WALL PANEL WITH WIRED INPUT	18"

NETWORK DATA SYMBOL LEGEND

SYMBOL	DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)
*	DATA/PHONE OUTLET, WITH 4-PORT FACEPLATE UNO, AND CONDUIT TO ACCESSIBLE CEILING OR CABLETRAY.	18"
W *	WALL PHONE OUTLET WITH 2-PORT TELEPHONE WALL MOUNT FACEPLATE WITH CONDUIT TO ACCESSIBLE CEILING OR CABLE TRAY	48"
S *	DATA OUTLET IN SURFACE MOUNTED BOX WITH 4-PORT FACEPLATE WITH CONDUIT TO ACCESSIBLE CEILING OR CABLE TRAY.	18"
B *	DATA OUTLET WITH BRUSH FACE PLATE.	
S *	DATA OUTLET IN SURFACE MOUNTED 2-PORT "BISCUIT" BOX, WITH CONDUIT ROUTED TO ACCESSIBLE CEILING OR CABLE TRAY.	
*	DATA/PHONE OUTLET, MOUNTED IN FLOOR BOX, WITH CONDUIT ROUTED AS NOTED.	
*	DATA OUTLET MOUNTED FLUSH IN CEILING WITH CONDUIT ROUTED TO ACCESSIBLE CEILING (DASHED: MOUNTED ABOVE CEILING)	
	CABLING CONNECTOR FOR DIRECT CONNECTIONS, SUPPORTED ABOVE CEILING UNO	
	WIRELESS ACCESS POINT; INDOOR WALL MOUNTED AT 8'-6" UNO; OUTDOOR WALL MOUNTED AS NOTED. CONDUIT ROUTED TO ACCESSIBLE CEILING OR CABLE TRAY.	
	WIRELESS ACCESS POINT; CEILING MOUNTED	

* QUANTITY OF CABLES AS NOTED

SECURITY SYMBOL LEGEND

SYMBOL	DESCRIPTION	HEIGHT TO MIDDLE OF DEVICE (U.N.O.)
DC	DOOR CONTACT, TYPE AS NOTED	
CR	CREDENTIAL READER, A=WALL MOUNTED, B=MULLION, C=EXTERIOR	46"
KP	KEYPAD, TYPE AS NOTED	46"
EH	ELECTRIFIED INTEGRATED CREDENTIAL READER DOOR HARDWARE, TYPE AS NOTED	
EL	ELECTRIC LATCH RETRACTION, TYPE AS NOTED	
ES	ELECTRIC STRIKE, TYPE AS NOTED	
DA	DURESS ALARM BUTTON, TYPE AS NOTED	
DR	DOOR RELEASE	
GB	WALL MOUNTED GLASS BREAK	90"
GB	CEILING MOUNTED GLASS BREAK	
TH	ELECTRIC TRANSFER / HINGE, TYPE AS NOTED	
ML	MAGNETIC LOCK, TYPE AS NOTED	
RE	WALL MOUNTED REQUEST TO EXIT, TYPE AS NOTED	90"
RE	CEILING MOUNTED REQUEST TO EXIT, TYPE AS NOTED	
MD	WALL MOUNTED MOTION DETECTOR, TYPE AS NOTED	90"
MD	CEILING MOUNTED MOTION DETECTOR, TYPE AS NOTED	
W	WAVE ACTIVATED ADA SWITCH	46"
C	WALL MOUNTED SURVEILLANCE CAMERA, TYPE AS NOTED	90"
C	WALL MOUNTED SURVEILLANCE CAMERA - PAN-TILT-ZOOM, TYPE AS NOTED	90"
> C	EXTERIOR, CORNER MOUNTED SURVEILLANCE CAMERA - PAN-TILT-ZOOM, TYPE AS NOTED	144"
> C	EXTERIOR, CORNER MOUNTED SURVEILLANCE CAMERA, TYPE AS NOTED	144"
C	CEILING MOUNTED SURVEILLANCE CAMERA, TYPE AS NOTED	
C	CEILING MOUNTED SURVEILLANCE CAMERA - PAN-TILT-ZOOM, TYPE AS NOTED	
EM	EMERGENCY CALL STATION, MOUNTING AND TYPE AS NOTED	46"

GENERAL ICT NOTES

1. UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.
2. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE CEILINGS WHERE NOTED.
3. WHERE POSSIBLE, ALL CONDUIT AND CABLE SHALL BE RUN UNDER THE TOP CHORD OF THE JOISTS. UNDER NO CIRCUMSTANCE SHALL CONDUIT BE RUN WITHIN 1-1/2" OF THE ROOF DECK.
4. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ICT DRAWINGS.
5. WHERE MOUNTING HEIGHTS ARE SHOWN, THEY ARE TO BE CONSIDERED TO BE TO THE CENTER OF THE DEVICE, UNLESS NOTED OTHERWISE.
6. RACEWAY, PATHWAY, AND SIMILAR ITEMS ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL COORDINATE INSTALLATION, INCLUDING CABLING, TELECOMMUNICATIONS PATHWAY AND SPACES, AND EXACT LOCATIONS OF HORIZONTAL, BACKBONE, AND DEMARCATION CABLING WITH FIXED CASEWORK AND BUILDING CONDITIONS AFFECTING THE CONTRACT WORK.
7. CONTRACTOR SHALL INSPECT THE WORK OF OTHER TRADES BEFORE STARTING TELECOMMUNICATIONS INSTALLATION TO ENSURE IT IS COMPLETE ENOUGH TO PROCEED. NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING OF ANY CONDITIONS THAT COULD HINDER TIMELY COMPLETION. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. STARTING WORK IMPLIES ACCEPTANCE OF THE CONDITIONS AS NECESSARY.
8. CONTRACTOR SHALL COORDINATE TELECOMMUNICATIONS WORK WITH OTHER TRADES, REFERRING TO ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. ENSURE COORDINATION BEFORE FABRICATION, PURCHASE, AND INSTALLATION.
9. CONTRACTOR SHALL PROVIDE FIRESTOPPING SYSTEMS FOR CONDUIT AND RACEWAY PENETRATIONS, SLEEVES, AND SLOTS IN FIRE-RATED ASSEMBLIES FOR HORIZONTAL AND INTRABUILDING PATHWAYS AND SPACES. USE FIRESTOP PUTTY OR PILLOWS INSIDE CONDUITS AND CABLE TRAYS TO ALLOW EASY REMOVAL OR ADDITION OF FUTURE CABLING.
10. CONTRACTOR SHALL CLEARLY IDENTIFY INTRABUILDING COPPER AND OPTICAL FIBER CABLING IN PULLBOXES, ENTRANCE POINTS, EACH TELECOM ROOM, AND 5' BEFORE ENTERING RACK-MOUNTED AND WALL-MOUNTED CONNECTING HARDWARE USING SELF-LAMINATING WRAPAROUND LABELS AND OPTICAL FIBER CABLE IDENTIFICATION TAGS.
11. CABLING SHALL BE INSTALLED TO MAINTAIN A MINIMUM SPACING OF 12" FROM ELECTRICAL FEEDERS, BRANCH CIRCUIT WIRING, AND AUXILARY SYSTEM CABLING. ENSURE A MINIMUM SPACING OF 6' FROM ELECTRICAL APPARATUS LIKE MOTOR-DRIVEN EQUIPMENT AND TRANSFORMERS, AND 10' FROM MEDIUM VOLTAGE ELECTRICAL FEEDERS.
12. ALL WORK TO COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS ADOPTED BY THE AHJ FOR THE PROJECT LOCATION, INCLUDING (NOT LIMITED TO) ELECTRICAL CODES, BUILDING CODES, ENERGY CODES, ETC.
13. COORDINATE INSTALLATION WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REFLECTED CEILING PLANS FOR DEVICE AND FIXTURE PLACEMENT, AS WELL AS FIRE RATED PARTITIONS, EXPANSION JOINTS, ETC.
14. WHERE CONFLICTS EXIST IN DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS, ISSUE REQUEST FOR INTERPRETATION TO DESIGN TEAM FOR CLARIFICATION PRIOR TO INSTALLATION.
15. FURNISH AND INSTALL CONDUIT AND BACK BOXES FOR THE FOLLOWING DEVICES INTO THE ACCESSIBLE CEILING SPACE IN THE CORRIDOR, UNLESS NOTED OTHERWISE:

1"C	AUDIOVISUAL OUTLETS
3/4"C	VOLUME CONTROLS
1"C	TELEPHONE OUTLETS
1"C	DATA OUTLETS
3/4"C	FIRE ALARM DEVICES
1"C	SECURITY CAMERAS
3/4"C	SECURITY DOOR CONTACTS
3/4"C	AUDIO LOUD SPEAKERS
1"C	ACCESS CONTROL DOOR JUNCTION BOX

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MT PLEASANT, MI 48858

NOT FOR CONSTRUCTION

ISSUANCE
10/13/2026 Bids

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
D. ELYA
DRAWN BY
C. MITCHELL
CHECKED BY
D. ELYA

ICT NOTES AND ABBREVIATIONS
T001

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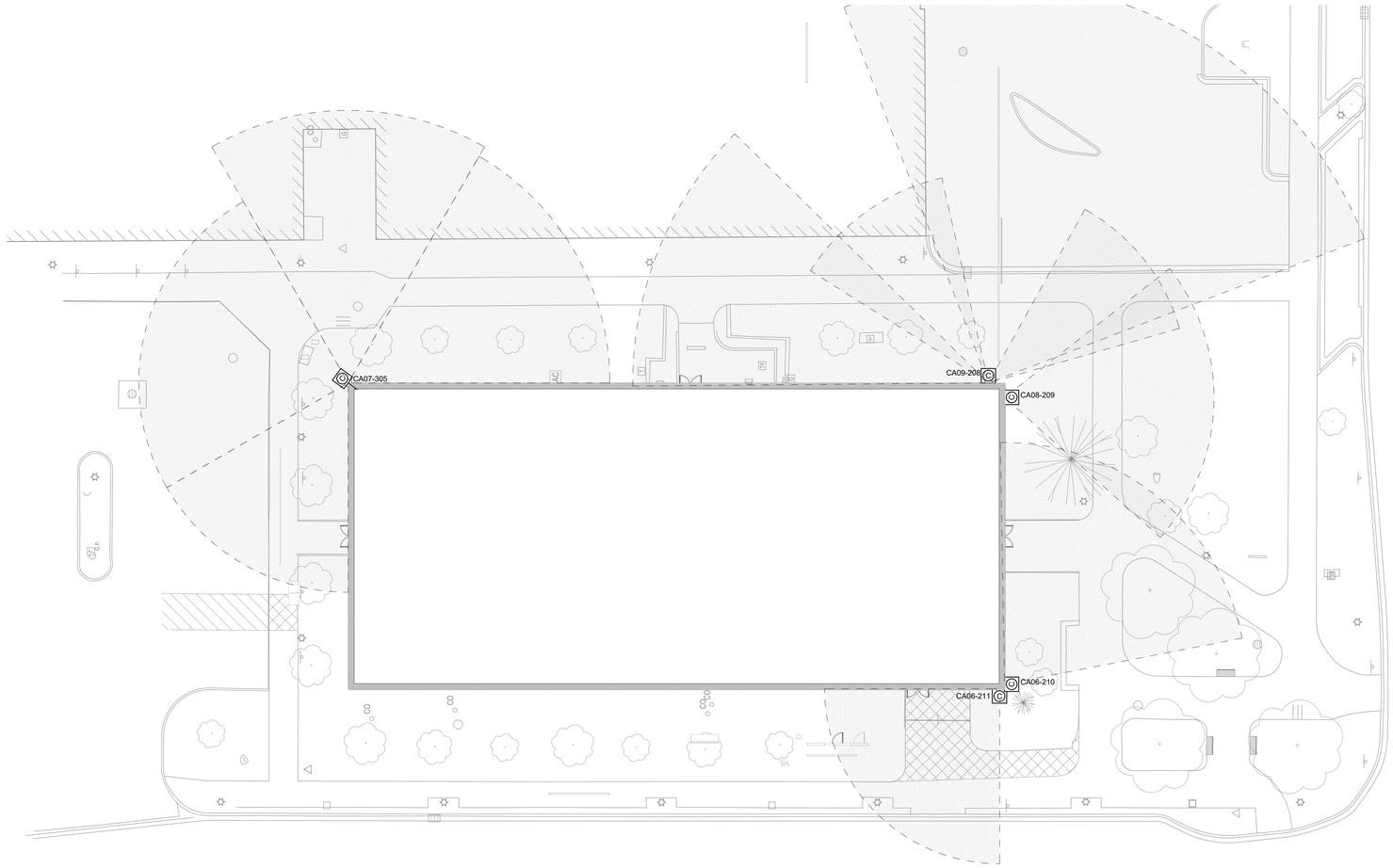

SITE PLAN
1/16" = 1'-0"

TECHNOLOGY SITE GENERAL NOTES

A. ALL COMMUNICATIONS CONDUIT AND CABLES SHALL BE INSTALLED 36" (MINIMUM) BELOW FINISHED GRADE UNO.

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ISABELLA COUNTY
ADMINISTRATION BUILDING INTERIOR RENOVATION
200 N. MAIN STREET
MT. PLEASANT, MI 48858

NOT FOR CONSTRUCTION

ISSUANCE
10/13/2026 Bids

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
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CHECKED BY
D. ELYA

ICT TECHNOLOGY SYSTEMS SITE PLAN
TS001

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100 - TS001
ICT TECHNOLOGY SYSTEMS SITE PLAN
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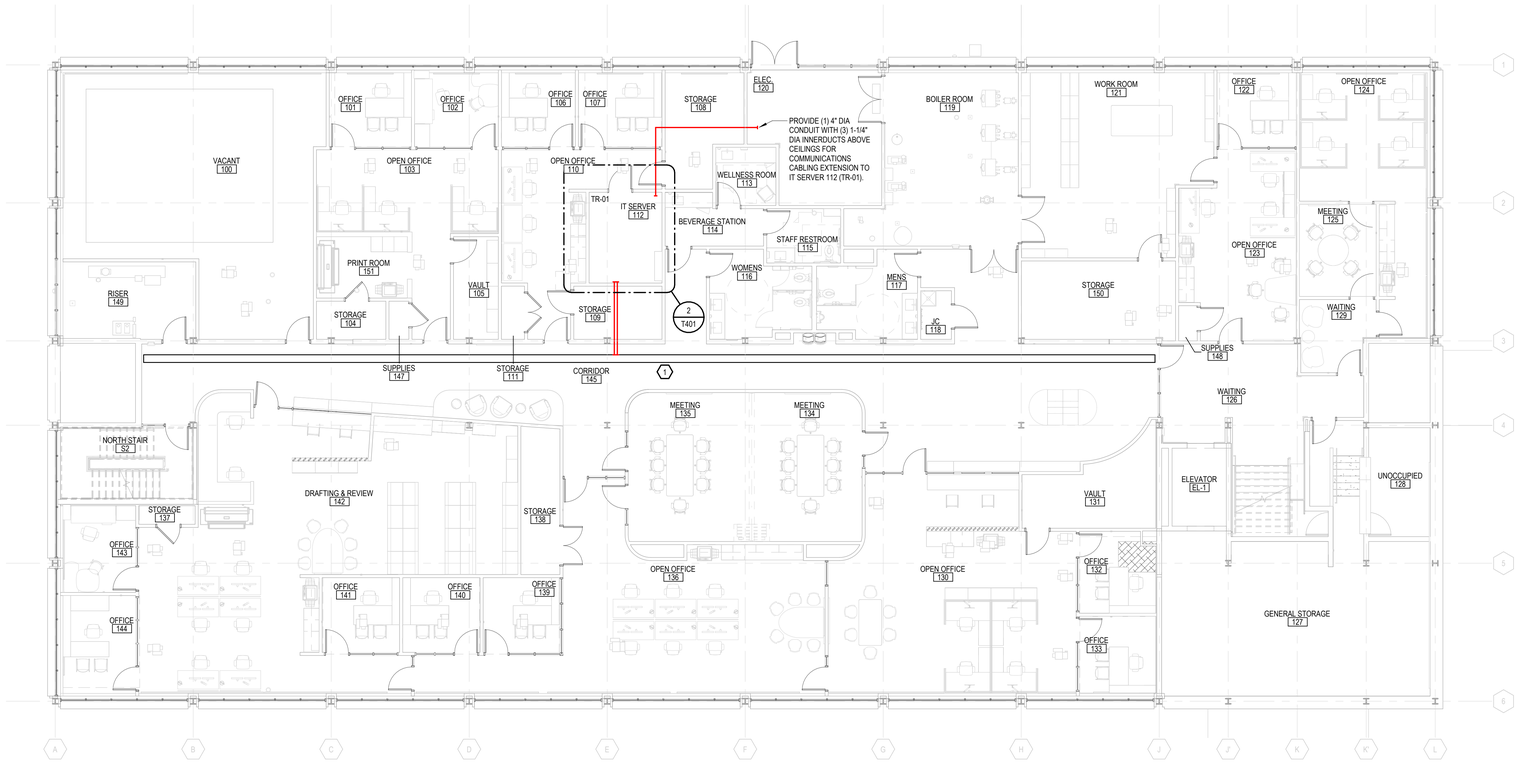
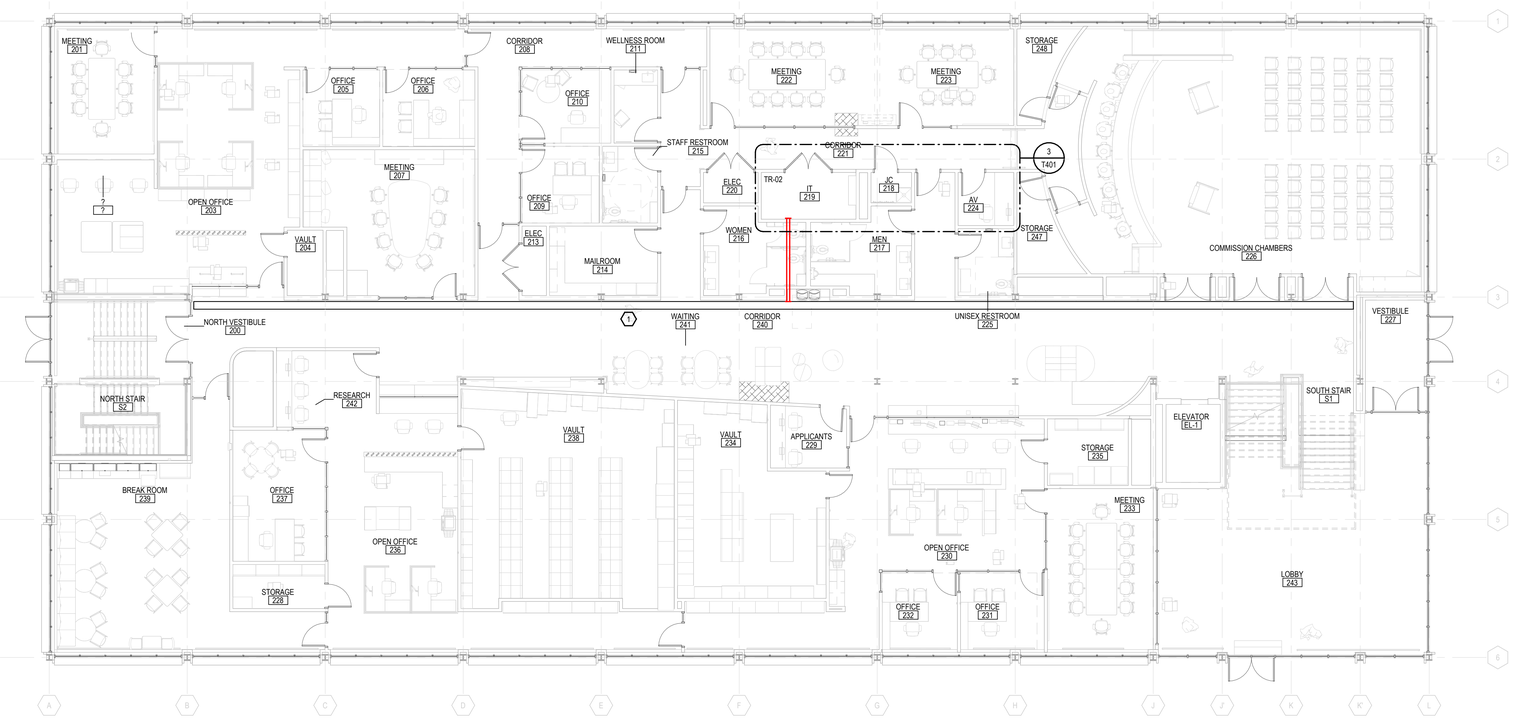


FIRST FLOOR TELECOM PLAN

1/8" = 1'-0"



SECOND FLOOR TELECOM PLAN

1/8" = 1'-0"

ICT PATHWAY GENERAL NOTES

A. REFER TO T602, BACKBONE PATHWAYS RISER DIAGRAM FOR CONDUIT QTY AND SIZE INFORMATION.

ICT PATHWAY KEYNOTES

1. PROVIDE 12" X 4" BASKET CABLE TRAY AT 9'-4" AFF AS NEEDED AND COORDINATE ROUTING IN FIELD.

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200 N. MAIN STREET
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ISSUANCE
10/13/2026 Bids

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ICT PATHWAYS & SPACES - FIRST & SECOND FLOOR

T101

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101 - TYPICAL
ICT PATHWAYS & SPACES - FIRST & SECOND FLOOR
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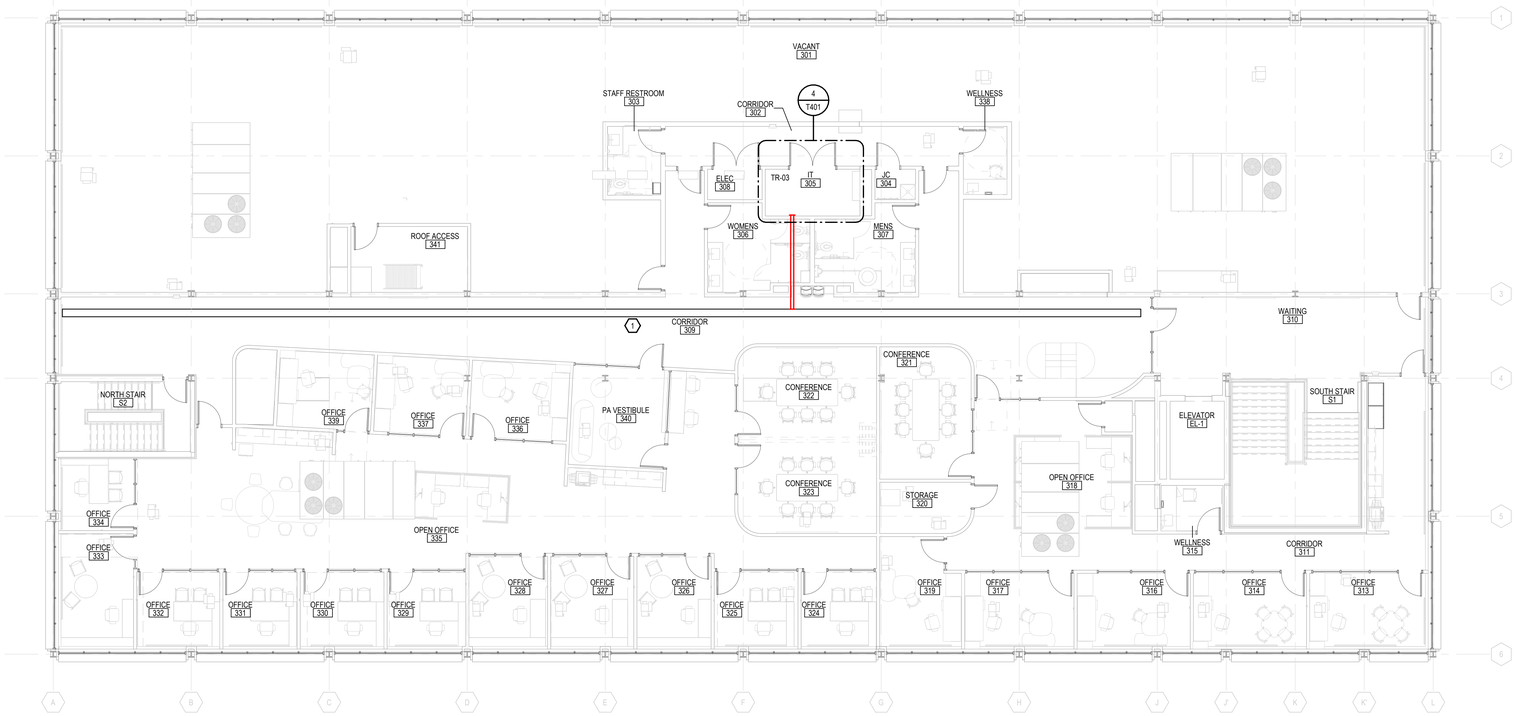

THIRD FLOOR TELECOM PLAN

1/8" = 1'-0"

ICT PATHWAY GENERAL NOTES

A. REFER TO T602, BACKBONE PATHWAYS RISER DIAGRAM FOR CONDUIT QTY AND SIZE INFORMATION.

ICT PATHWAY KEYNOTES

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ICT PATHWAYS & SPACES - THIRD FLOOR

T102

24.2.002

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101 - T102
ICT PATHWAYS & SPACES - THIRD FLOOR

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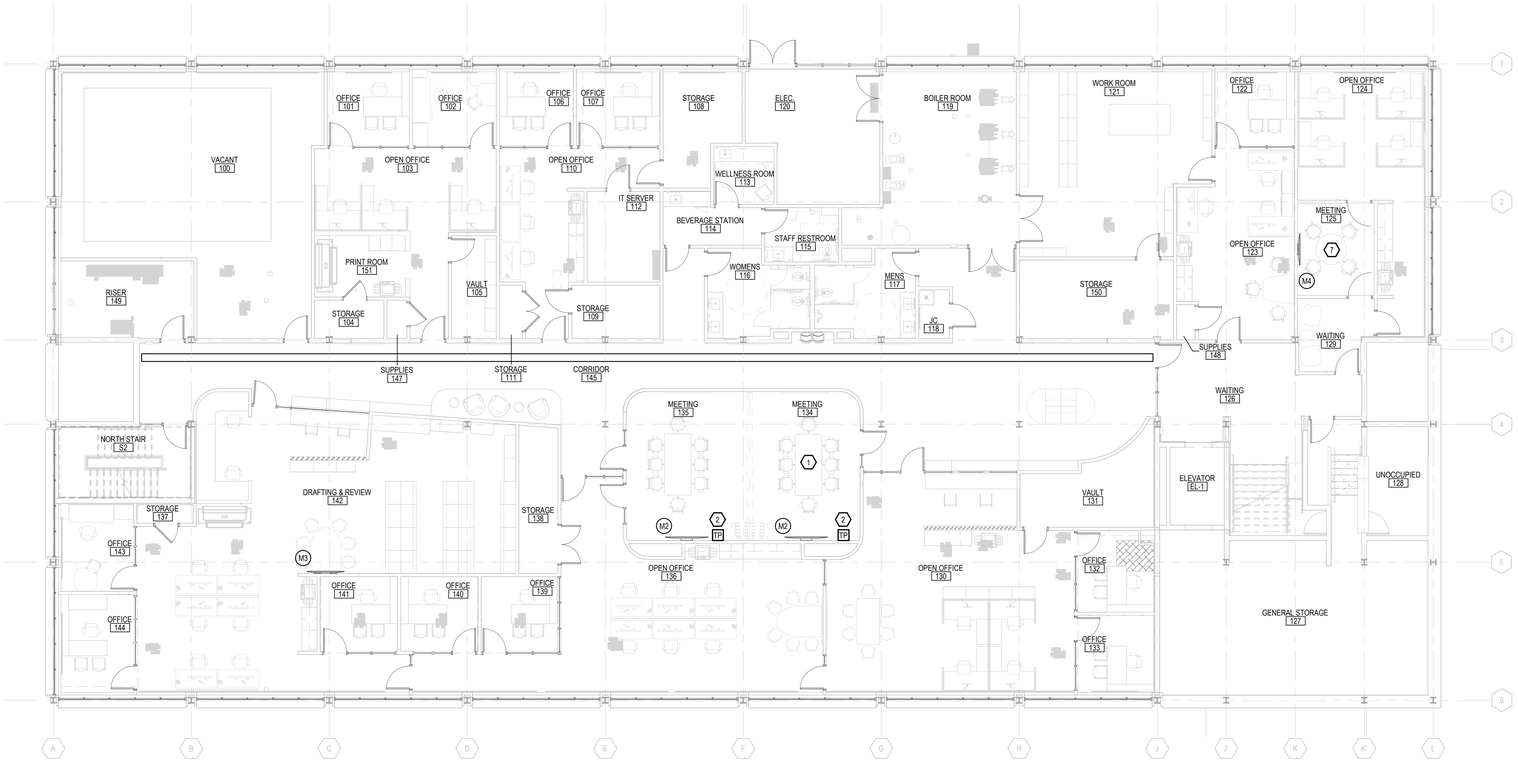
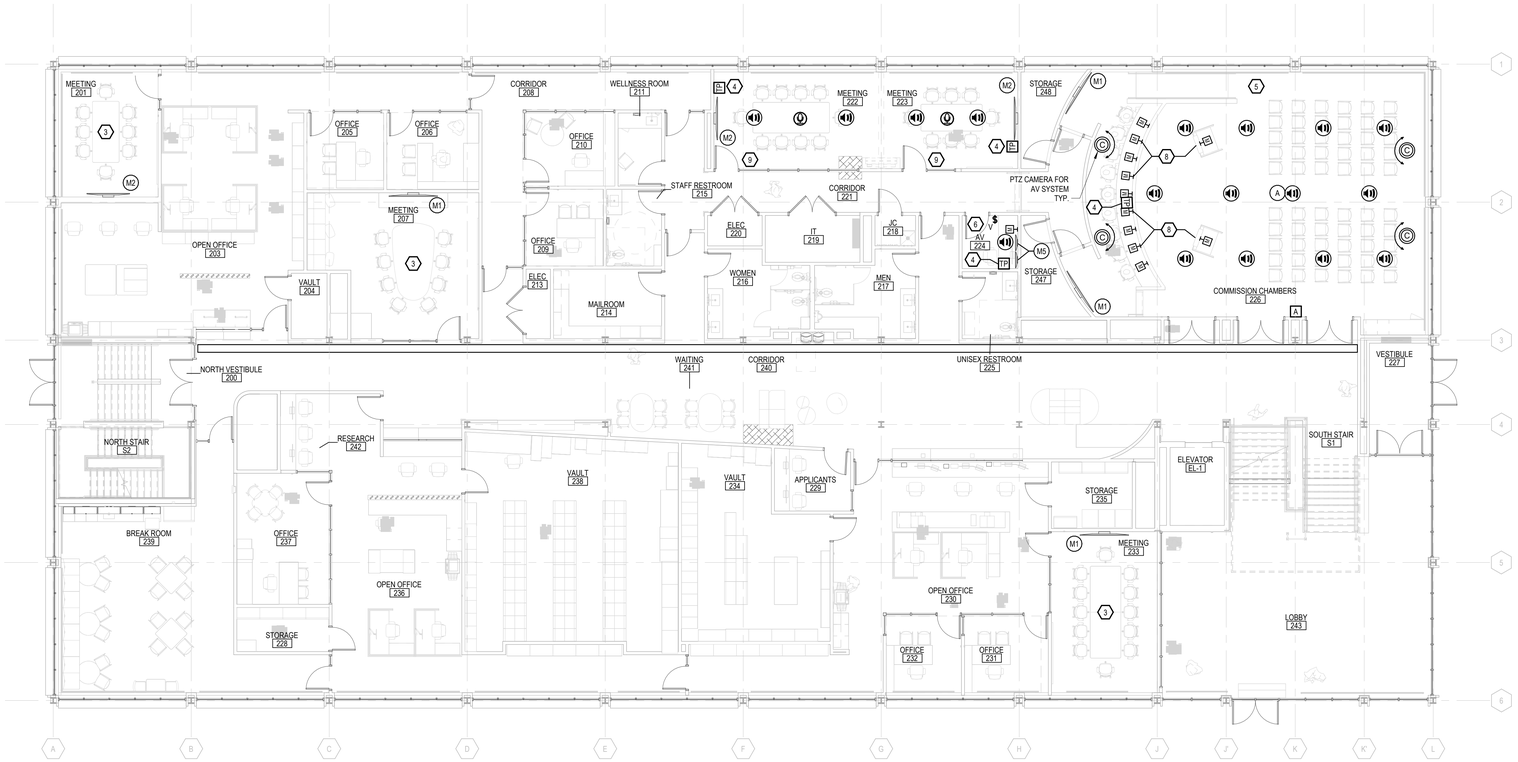


FIRST FLOOR AUDIOVISUAL PLAN

1/8" = 1'-0"



SECOND FLOOR AUDIOVISUAL PLAN

1/8" = 1'-0"

AUDIOVISUAL KEYNOTES

1. TABLE EQUIPMENT TO INCLUDE: NEAT CENTER.
2. TOUCH PANEL TO BE NEAT PAD PRO. PROVIDE 1 1/4" CONDUIT TO ACCESSIBLE CEILING SPACE.
3. TABLE EQUIPMENT TO INCLUDE: NEAT PAD PRO, HD-TXU-4KZ-211-CHRG
4. TOUCH PANEL TO BE 10" CRESTRON TSW-1080-UC. PROVIDE 1 1/4" CONDUIT TO ACCESSIBLE CEILING SPACE.
5. PROVIDE (3) MOBILE MONITOR CARTS. EACH CART TO INCLUDE: 75" M2 DISPLAY, HECKLER AV CART BASE, WB-200-CE-4, NV-21-HU, RJ45 DISCONNECT.
6. PROVIDE (4) AURI-RX1, (6) LA-438, (6) LA-164, (1) AURI-DP-01
7. TABLE EQUIPMENT TO INCLUDE: HD-TXC-4KZ-101
8. TABLE EQUIPMENT TO INCLUDE: NV-21-HU, NV-21-PSU
9. SOUND MASKING TO BE PROVIDED FOR ROOM.

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ICT AUDIOVISUAL PLAN - FIRST & SECOND FLOOR

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101 - TA101
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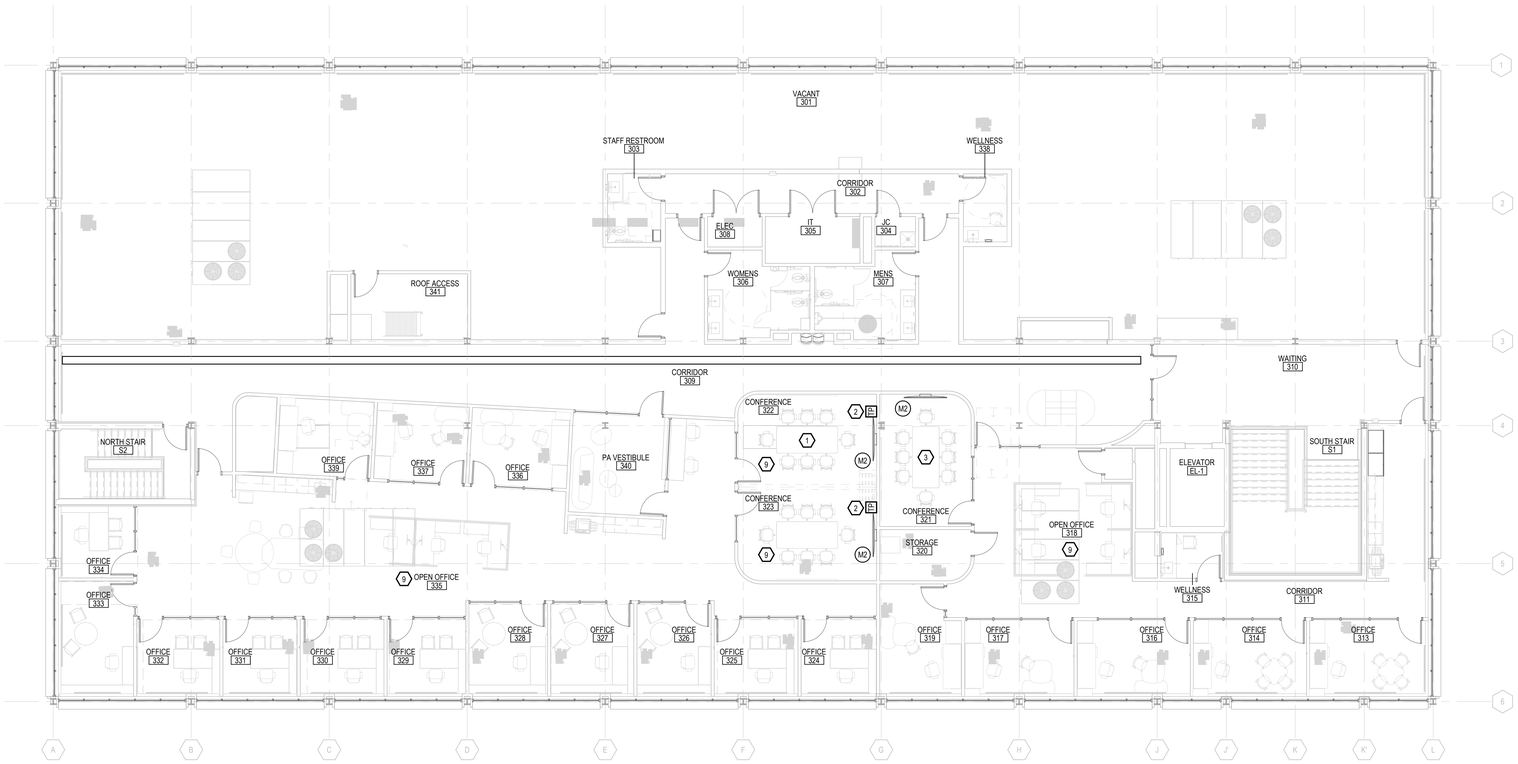

THIRD FLOOR AUDIOVISUAL PLAN

1/8" = 1'-0"

AUDIOVISUAL KEYNOTES

1. TABLE EQUIPMENT TO INCLUDE: NEAT CENTER.
2. TOUCH PANEL TO BE NEAT PAD PRO. PROVIDE 1 1/4" CONDUIT TO ACCESSIBLE CEILING SPACE.
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ICT AUDIOVISUAL PLAN - THIRD FLOOR

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ICT AUDIOVISUAL PLAN - THIRD FLOOR

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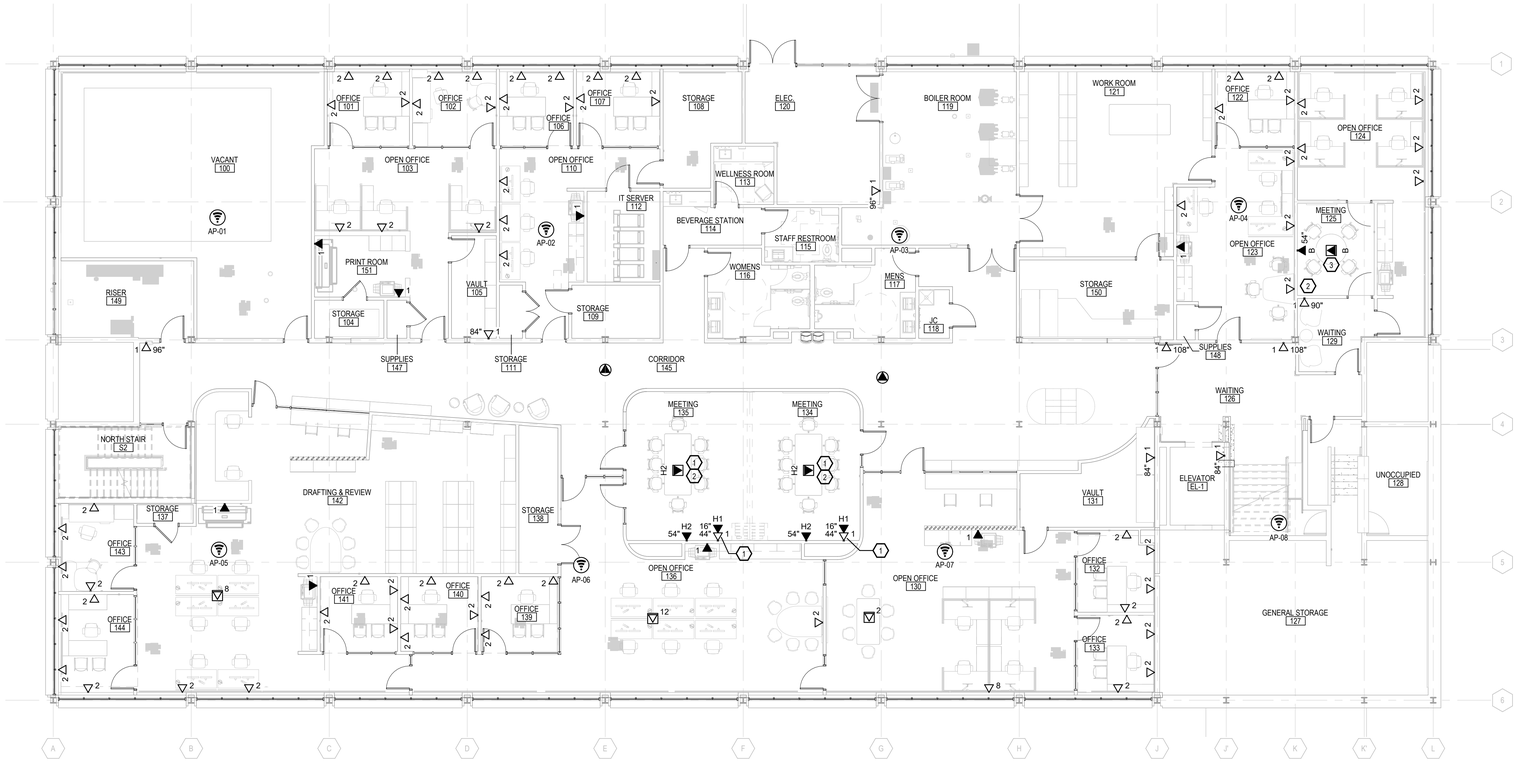
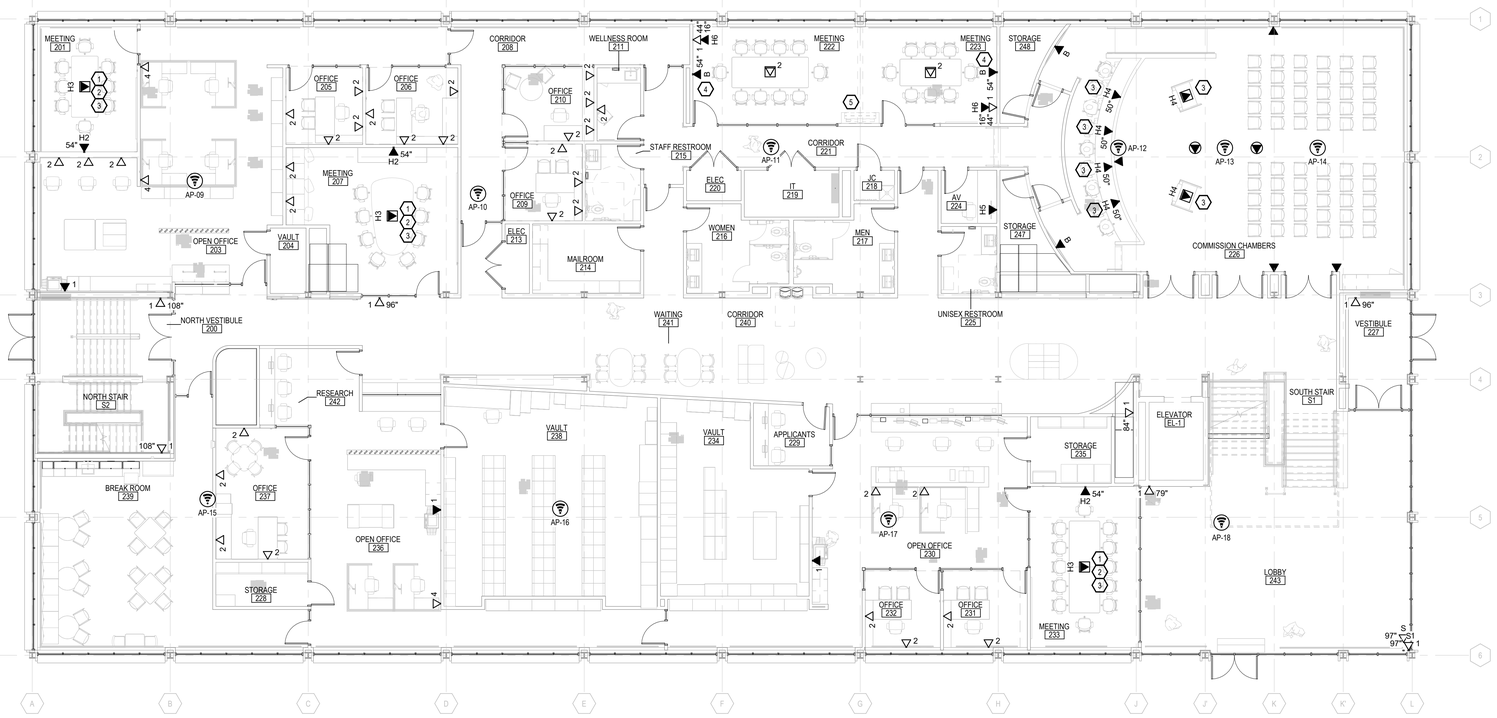


FIRST FLOOR NETWORK DATA PLAN

1/8" = 1'-0"



SECOND FLOOR NETWORK DATA PLAN

1/8" = 1'-0"

NETWORK DATA GENERAL NOTES

A. PROGRESSIVE COMPANIES DESIGNS LAYOUT OF WAPS - DEVICES FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.

B. EACH WAP TO HAVE (2) CAT6A DROPS.

C. ALL COMMUNICATIONS CABLE INSTALLED ABOVE CEILINGS ARE TO BE PLENUM RATED.

NETWORK DATA KEYNOTES

1. DATA DROPS TO BE POE+ AND ROUTE TO AV EQUIPMENT.
2. PROVIDE 1-1/4" CONDUIT FROM BRUSH PLATES IN FLOORBOX TO BRUSH PLATES BEHIND TV. PROVIDE 1-1/4" CONDUIT FROM BEHIND TV TO STUBBED ABOVE ACCESSIBLE CEILING.
3. USB-C CABLE THROUGH GROMMET IN TABLE TO CONNECT TO HDMI TRANSMITTER UNDER TABLE.
4. PROVIDE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
5. PROVIDE GLS-PART-CN CEILING-MOUNTED PARTITION SENSOR.

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ICT NETWORK DATA PLAN - FIRST & SECOND FLOOR

TN101

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ICT1 - TN101
ICT - NETWORK DATA PLAN - FIRST & SECOND FLOOR

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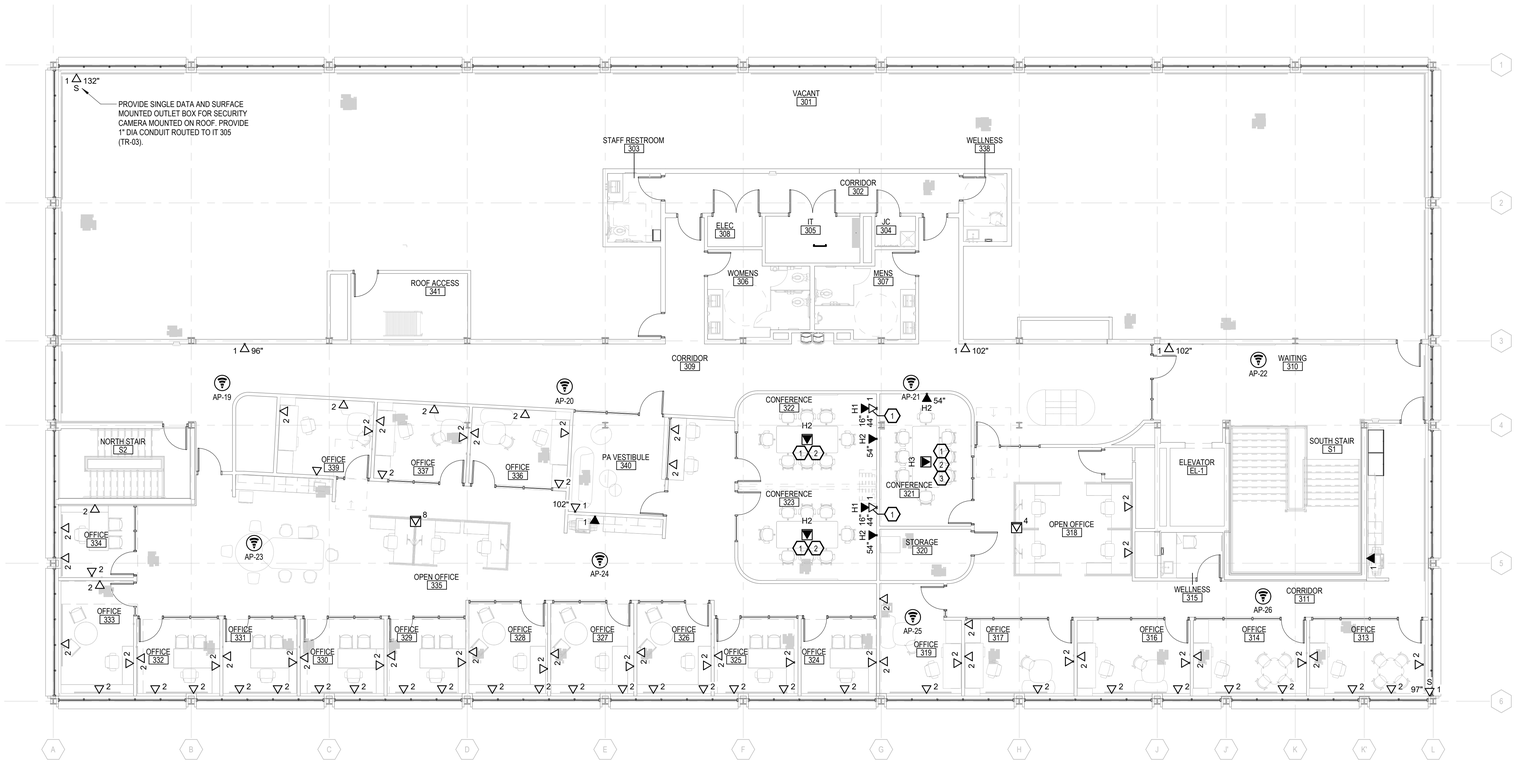

THIRD FLOOR NETWORK DATA PLAN

1/8" = 1'-0"

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ICT NETWORK DATA PLAN - THIRD FLOOR

TN102

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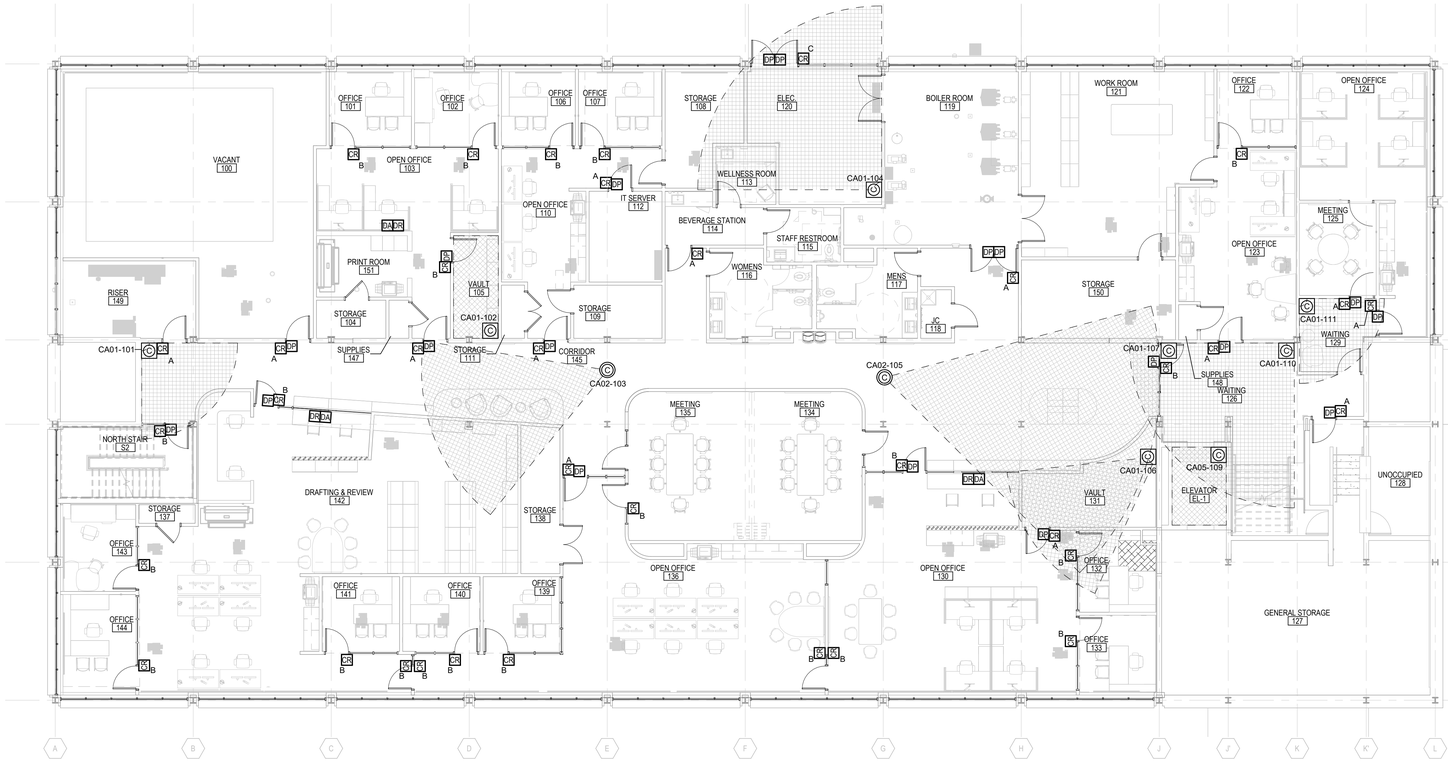
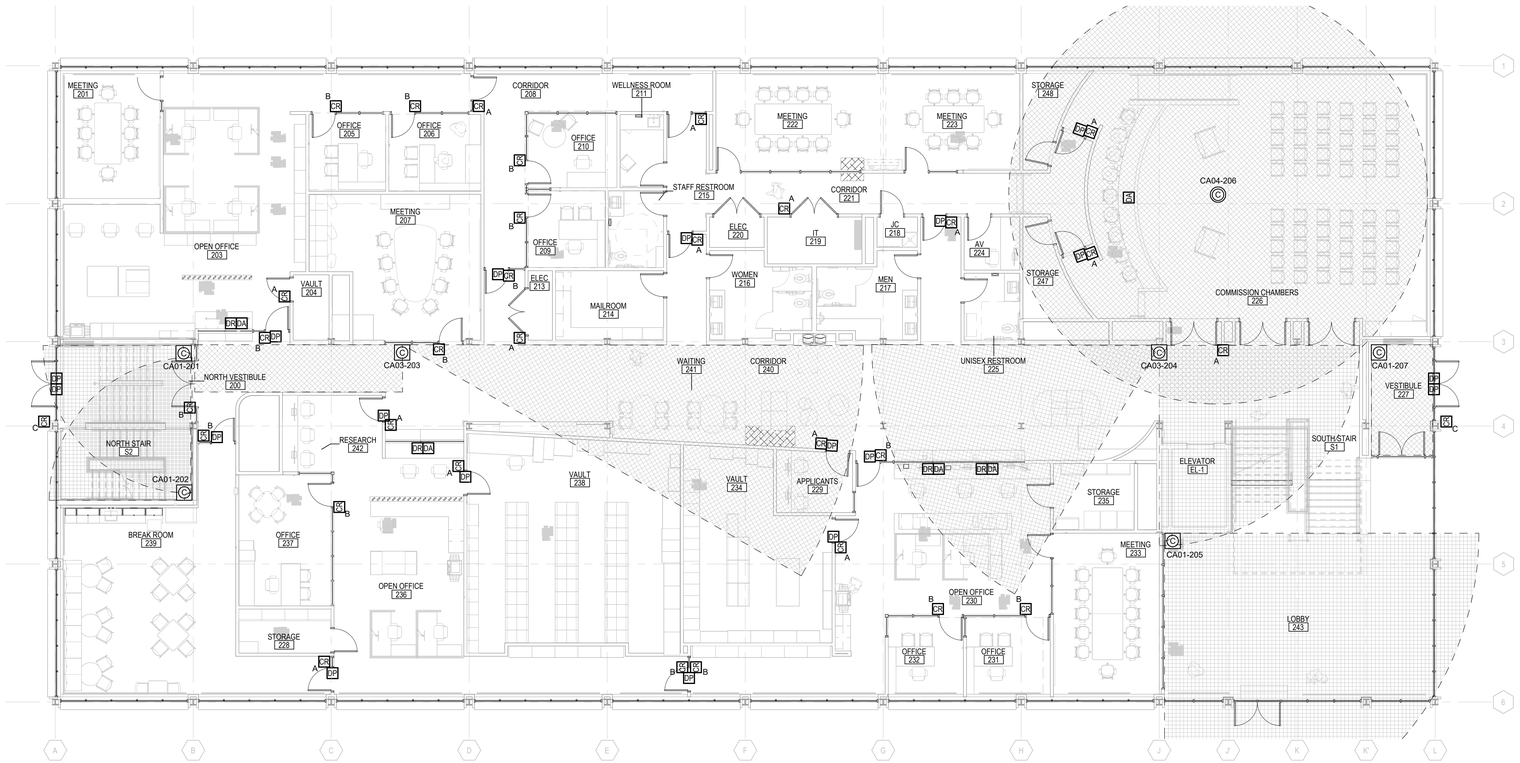


FIRST FLOOR SECURITY SYSTEMS PLAN

1/8" = 1'-0"



SECOND FLOOR SECURITY SYSTEMS PLAN

1/8" = 1'-0"

SECURITY SYSTEMS GENERAL NOTES

A. INTERIOR AND BUILDING MOUNTED VIDEO SURVEILLANCE SYSTEM TO BE PROVIDED. SYSTEM TO BE INTEGRATED WITH GENITECH ACCESS CONTROL SYSTEM. EXTERIOR MOUNTED CAMERAS COVERING CARD READER CONTROLLED DOORS TO HAVE RECORDING TRIGGERED BY CARD READER. NVR TO BE ON-PREMISES.
B. INTRUSION AND ALARM SYSTEM TO BE PROVIDED INCLUDING MOTION DETECTING AT ENTRANCES. SYSTEM TO INTEGRATE WITH GENITECH ACCESS CONTROL SYSTEM.

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ICT SECURITY PLAN AREA - FIRST & SECOND FLOOR

TY101

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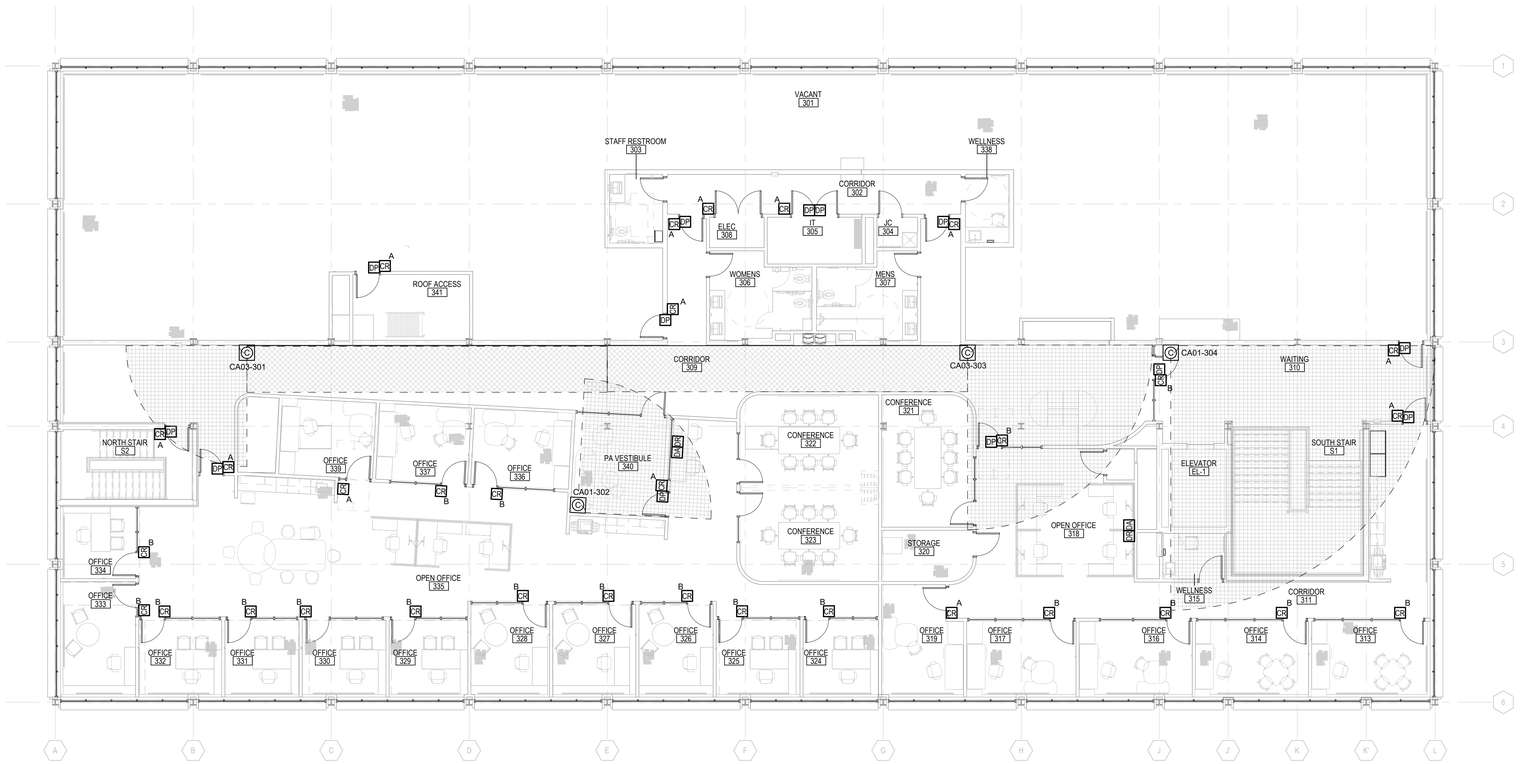

THIRD FLOOR SECURITY SYSTEMS PLAN

1/8" = 1'-0"

SECURITY SYSTEMS GENERAL NOTES

A. INTERIOR AND BUILDING MOUNTED VIDEO SURVEILLANCE SYSTEM TO BE PROVIDED. SYSTEM TO BE INTEGRATED WITH GENITECH ACCESS CONTROL SYSTEM. EXTERIOR MOUNTED CAMERAS COVERING CARD READER CONTROLLED DOORS TO HAVE RECORDING TRIGGERED BY CARD READER. NVR TO BE ON-PREMISES.
B. INTRUSION AND ALARM SYSTEM TO BE PROVIDED INCLUDING MOTION DETECTING AT ENTRANCES. SYSTEM TO INTEGRATE WITH GENITECH ACCESS CONTROL SYSTEM.

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ICT SECURITY PLAN AREA - THIRD FLOOR
TY102

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ICT - THIRD FLOOR PLAN AREA - THIRD FLOOR
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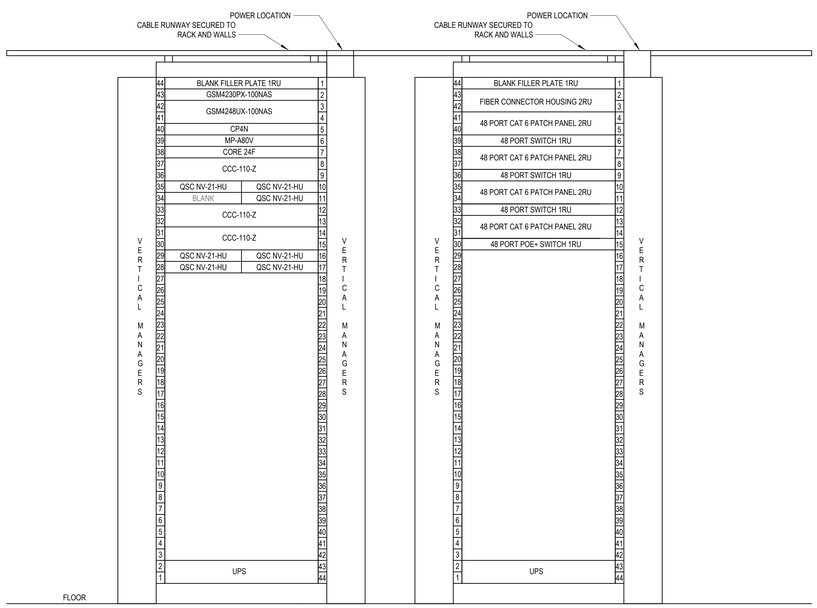
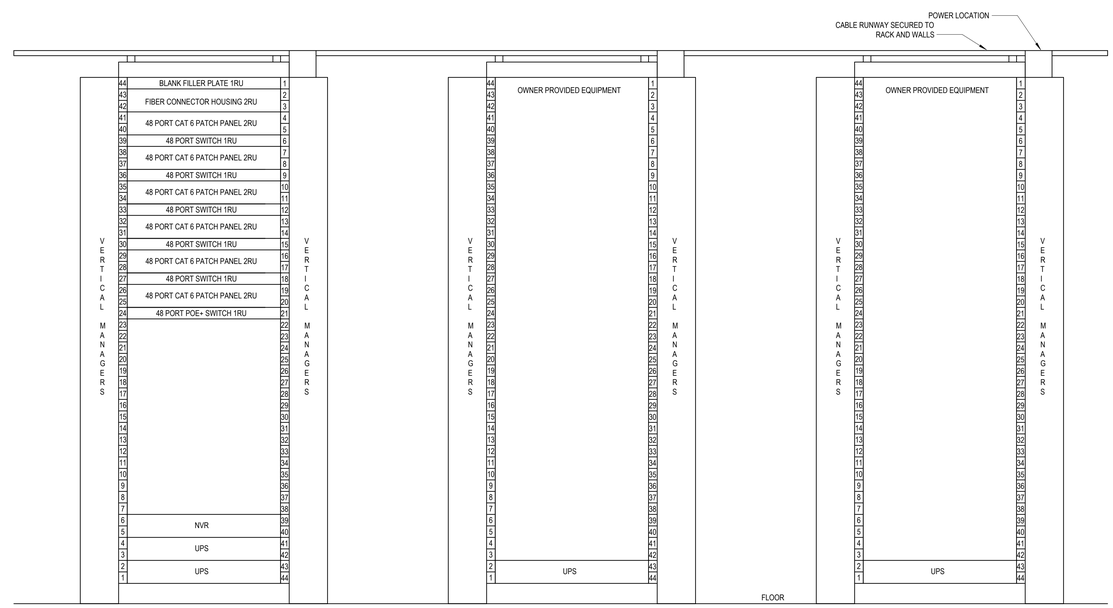
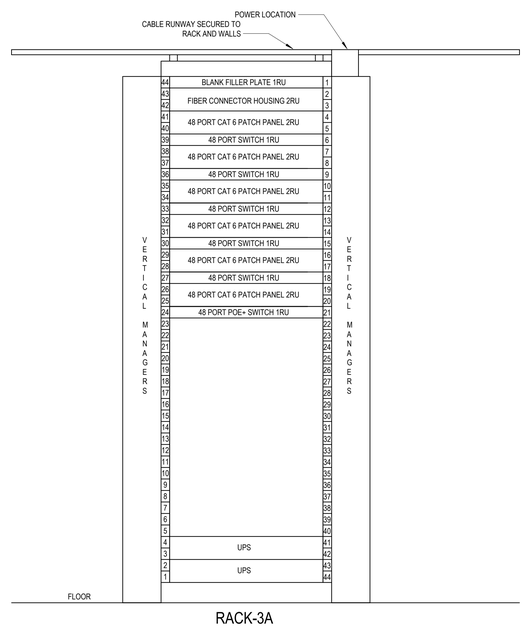


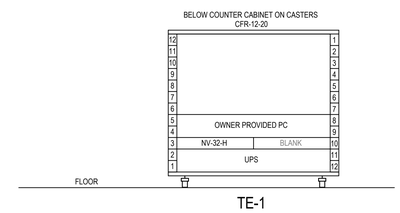
6 **TR-02 (219) RACK ELEVATION**
NOT TO SCALE



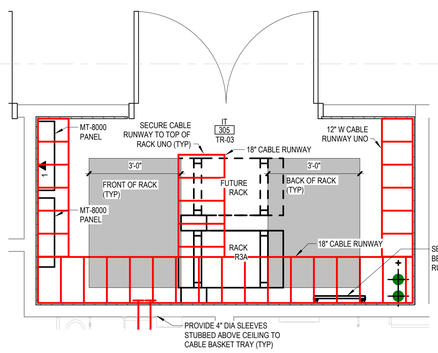
5 **TR-01 (112) RACK ELEVATIONS**
NOT TO SCALE



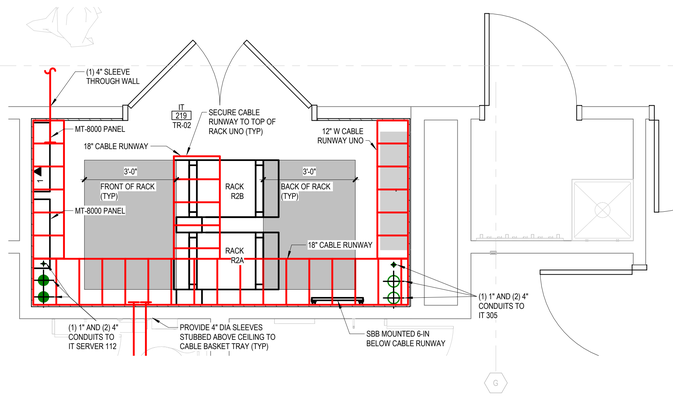
7 **TR-03 (305) RACK ELEVATION**
NOT TO SCALE

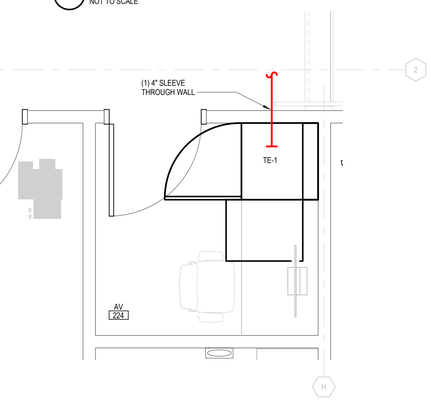


1 **AV-224 RACK ELEVATION**
NOT TO SCALE

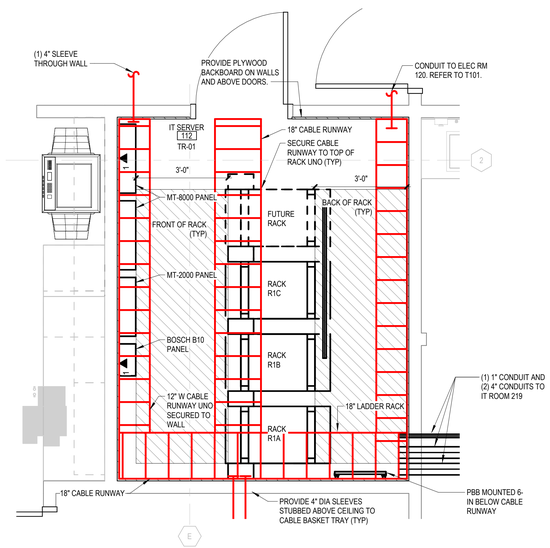


4 **ENLARGED TR-03 ROOM PLAN**
1/2" = 1'-0"





3 **ENLARGED TR-02 AND AV ROOM PLANS**
1/2" = 1'-0"



2 **ENLARGED TR-01 ROOM PLAN**
1/2" = 1'-0"

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1/24 = 1'-0"
ICT TECHNOLOGY ROOM PLANS & ELEVATIONS
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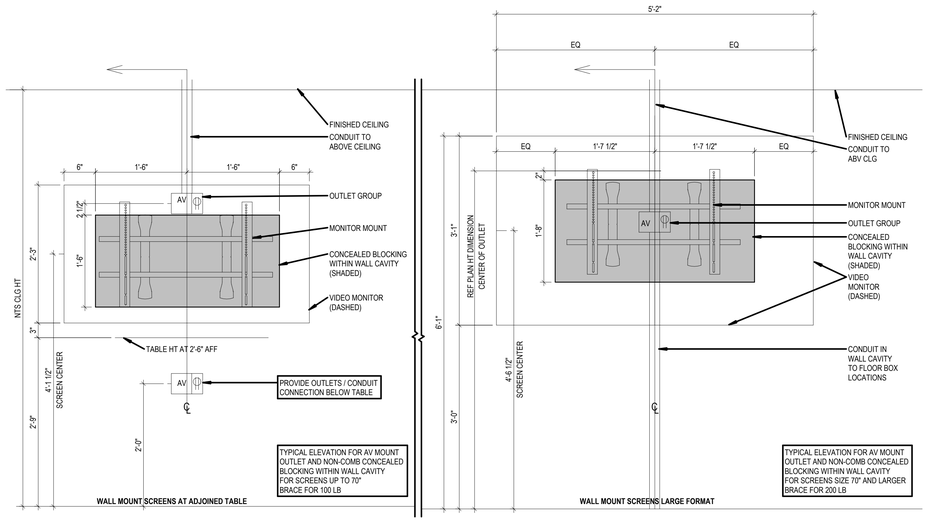
D. ELYA

ICT TECHNOLOGY ROOM PLANS & ELEVATIONS
T401



1 **VIDEO SCREEN SCHEMATIC ELEVATION**
NOT TO SCALE

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ICT AUDIOVISUAL & NETWORK DATA DETAILS

T501

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T501 - T501
ICT AUDIOVISUAL & NETWORK DATA DETAILS

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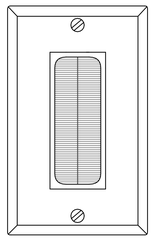
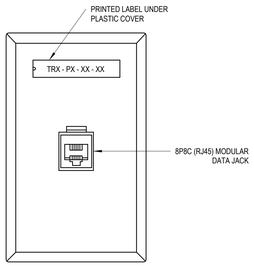
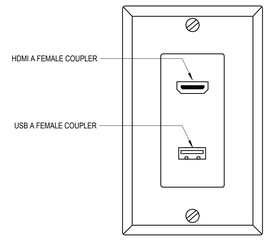


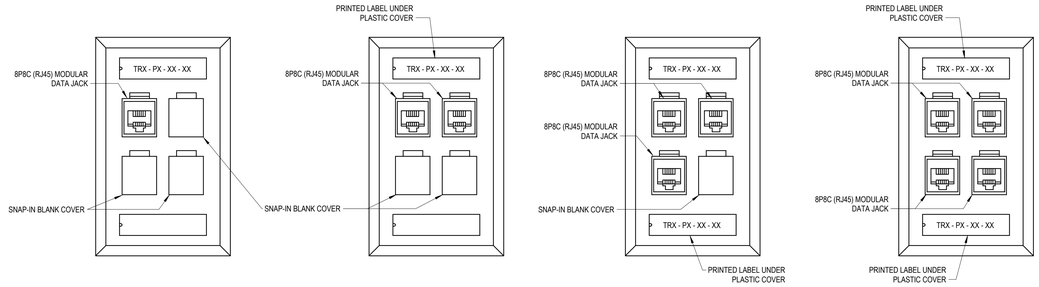
4 **FLUSH MOUNTED BRUSH FLAT OUTLET DETAIL**
NOT TO SCALE



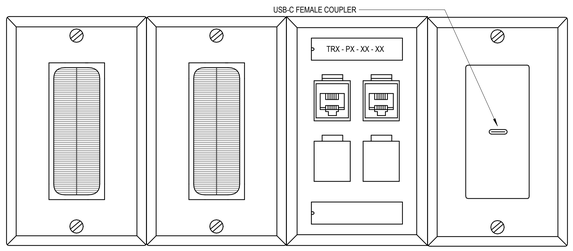
3 **FLUSH MOUNTED WALL PHONE OUTLET DETAIL**
NOT TO SCALE



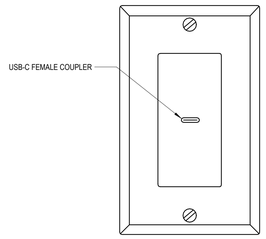
2 **FLUSH MOUNTED HDMI / USB PLATE OUTLET DETAIL**
NOT TO SCALE



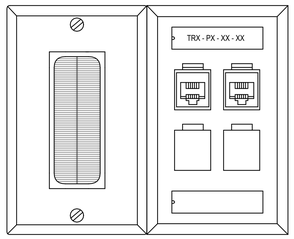
1 **DATA OUTLET DETAIL**
NOT TO SCALE



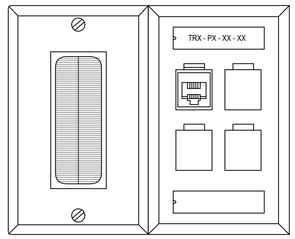
9 **H5 OUTLET DETAIL**
NOT TO SCALE



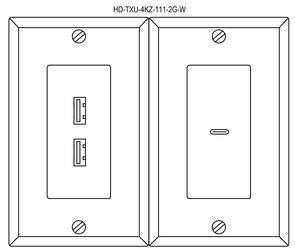
8 **H4 OUTLET DETAIL**
NOT TO SCALE



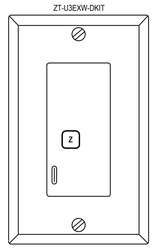
7 **H3 OUTLET DETAIL**
NOT TO SCALE



6 **H2 OUTLET DETAIL**
NOT TO SCALE



5 **H1 OUTLET DETAIL**
NOT TO SCALE



10 **H6 OUTLET DETAIL**
1 1/2" = 1'-0"

24.2.002

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105 - T502
ICT NETWORK DATA DETAILS

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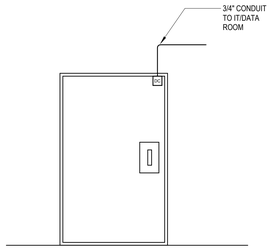
ISABELLA COUNTY
ADMINISTRATION BUILDING INTERIOR RENOVATION
200 N. MAIN STREET
MT. PLEASANT, MI 48858

NOT FOR CONSTRUCTION

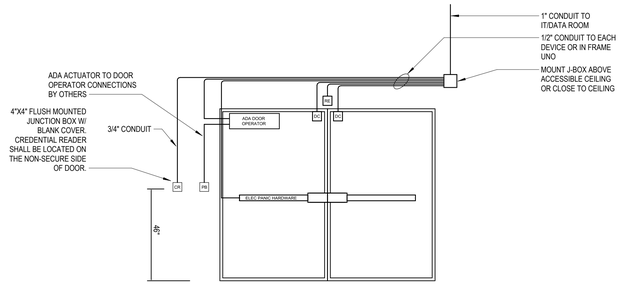
ISSUANCE
10/13/2026 Bids

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
D. ELYA
DRAWN BY
C. MITCHELL
CHECKED BY
D. ELYA

ICT NETWORK DATA DETAILS
T502

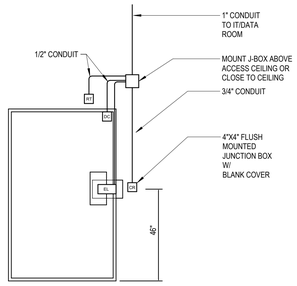


4 TYPICAL SINGLE DOOR WITH DOOR CONTACT
NOT TO SCALE



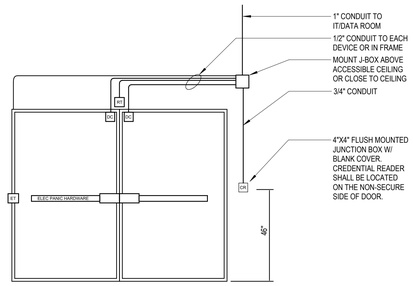
NOTE:
1. ROUTE ACCESS CONTROL CABLING TO ACCESS CONTROL PANEL (ACP) IN NEAREST TELECOM ROOM.
2. CONNECT TO DOOR OPERATOR TO PREVENT OPERATION FROM NON-SECURED SIDE WITHOUT READER VALIDATION DURING SECURE SCHEDULE.
3. CONNECT TO FIRE ALARM SYSTEM AT ACP AS NEEDED TO INITIATE LOCKS TO FAIL SAFE IN THE EVENT OF FIRE ALARM. ALL EGRESS DOORS ALLOW FREE EGRESS AT ALL TIMES.
4. COORDINATE WIRING OF ELECTRIFIED DOOR HARDWARE (STRIKE, LATCH, EGRESS BAR, TRANSFER HINGE, ETC.) WITH DOOR HARDWARE INSTALLER.
5. PROVIDE REQUEST TO EXIT DEVICE WHEN NOT INTEGRATED WITH DOOR HARDWARE.

3 TYPICAL DOUBLE DOOR WITH DOOR OPERATOR AND CARD READER
NOT TO SCALE



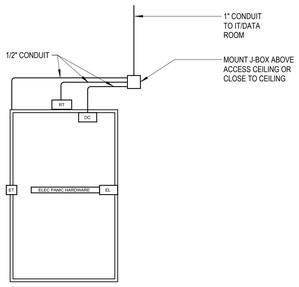
NOTE:
1. PROVIDE REQUEST TO EXIT DEVICE WHEN NOT INTEGRATED WITH DOOR HARDWARE.

2 TYPICAL SINGLE DOOR WITH CARD READER
NOT TO SCALE



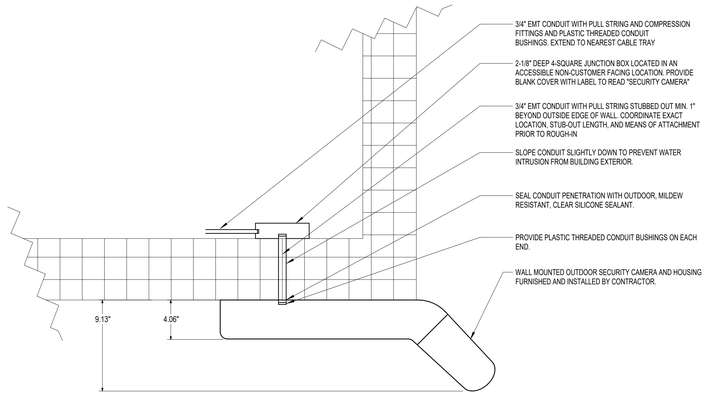
NOTE:
1. ROUTE ACCESS CONTROL CABLING TO ACCESS CONTROL PANEL IN NEAREST TELECOM ROOM.
2. CONNECT TO FIRE ALARM SYSTEM AS NEEDED TO INITIATE LOCKS TO FAIL SAFE IN THE EVENT OF FIRE ALARM. ALL EGRESS DOORS ALLOW FREE EGRESS AT ALL TIMES.
3. COORDINATE WIRING OF ELECTRIFIED DOOR HARDWARE (STRIKE, LATCH, EGRESS BAR, TRANSFER HINGE, ETC.) WITH DOOR HARDWARE INSTALLER.
4. PROVIDE REQUEST TO EXIT DEVICE WHEN NOT INTEGRATED WITH DOOR HARDWARE.

1 TYPICAL DOUBLE DOOR WITH CARD READER
NOT TO SCALE

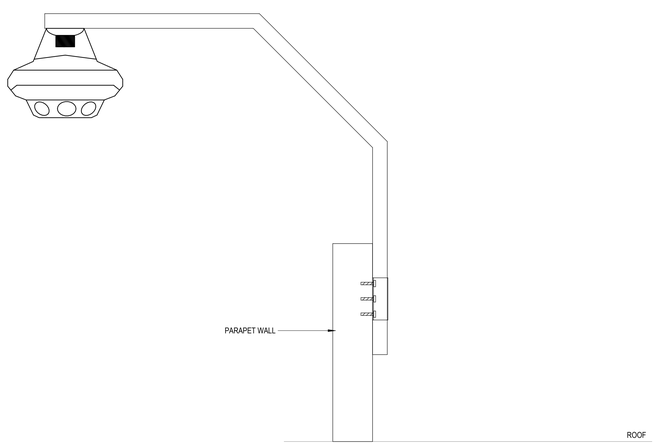


NOTE:
1. PROVIDE REQUEST TO EXIT DEVICE WHEN NOT INTEGRATED WITH DOOR HARDWARE.

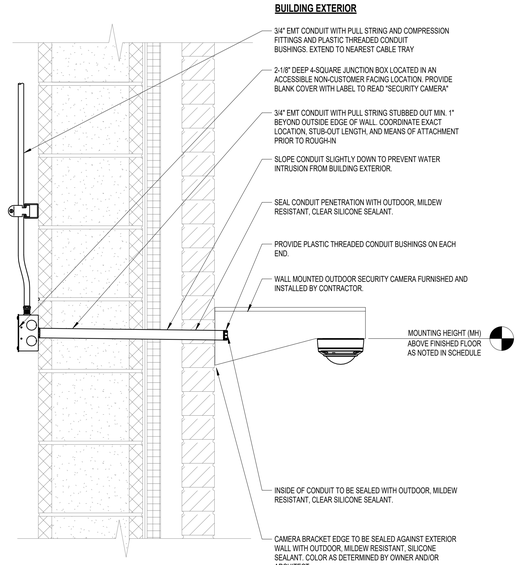
7 TYPICAL SINGLE DOOR WITH ELEC PANIC HARDWARE ONLY
NOT TO SCALE



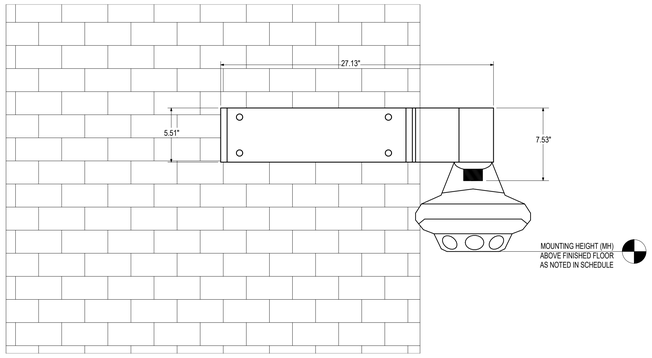
TOP VIEW



8 TYPICAL PARAPET WALL MOUNTED MULTISENSOR CAMERA DETAIL
NOT TO SCALE



6 OUTDOOR WALL MOUNTED CAMERA DETAIL
NOT TO SCALE



FRONT VIEW

5 OUTDOOR CORNER MOUNTED MULTISENSOR CAMERA DETAIL
NOT TO SCALE

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ISSUANCE
10/13/2026 Bids

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PROJECT MANAGER
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PROFESSIONAL
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DRAWN BY
C. MITCHELL
CHECKED BY
D. ELYA

ICT SECURITY SYSTEMS DETAILS
T503

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105 - T503
ICT SECURITY SYSTEMS DETAILS

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System	Subsystem	Manufacturer	Part Number	Description	Qty
Commission Chambers 226	DISPLAY	SAMSUNG	QN85QN70FAFXZA	85" UHD LED-LCD, 16/7, 350 NIT, 3X HDMI2.0, USB, AUDIO OUT, RS-232, LAN	2
	DISPLAY	PEERLESS	STS680-1UCM3	UNIVERSAL SMARTMOUNT TILT SCISSOR WALL MOUNT FOR 49" TO 120 DISPLAYS	2
	DISPLAY	WATTBOX	WB-250-IPW-2	IP POWER STRIP & SURGE PROTECTOR W/WI-FI, 2 CONTROLLED OUTLETS	2
	DISPLAY	QSC	NV-21-HU	4K60 4:4:4 NETWORK VIDEO ENDPOINT FOR Q-SYS ECOSYSTEM	2
	DISPLAY	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	2
	DISPLAY	SAMSUNG	QN75QN70FAFXZA	75" UHD LED-LCD, 16/7, 350 NIT, 3X HDMI2.0, USB, AUDIO OUT, RS-232, LAN	3
	DISPLAY	HECKLER	H714-BG	HECKLER AV CART BASE, BLACK GREY	3
	DISPLAY	WATTBOX	WB-200-CE-4	4 OUTLET, 12A SURGE SUPRESSOR	3
	DISPLAY	QSC	NV-21-HU	4K60 4:4:4 NETWORK VIDEO ENDPOINT FOR Q-SYS ECOSYSTEM	3
	DISPLAY	CENERO	RJ45 DISCONNECT	RJ45 DISCONNECT	5
	DISPLAY	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	5
	DISPLAY	SAMSUNG	LS27H710EANXZA	27" 4K DESKTOP MONITOR	2
	DISPLAY	WATTBOX	WB-300-IP-3	IP POWER STRIP & SURGE PROTECTOR W/3 CONTROLLED OUTLETS, OVRC COMPATIBLE	1
	DISPLAY	QSC	NV-21-HU	4K60 4:4:4 NETWORK VIDEO ENDPOINT FOR Q-SYS ECOSYSTEM	2
	DISPLAY	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	2
	INPUT SOURCES	TBD	BYOD	OFE BYOD CONNECTED AT TABLE	5
	INPUT SOURCES	COMPREHENSIVE	USB10GCC--10PROBLKA	10 PRO AV/IT INTEGRATOR SERIES ULTRA FLEXIBLE 10G USB-C MALE TO USB-C MALE CABLE	5
	INPUT SOURCES	QSC	NV-21-HU	4K60 4:4:4 NETWORK VIDEO ENDPOINT FOR Q-SYS ECOSYSTEM	5
	INPUT SOURCES	QSC	NV-21-PSLU	12V 10A AUX POWER SUPPLY FOR NV-21-HU TO ENABLE USB-C DEVICE CHARGING	5
	INPUT SOURCES	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	5
	INPUT SOURCES	TBD	BYOD	OFE BYOD CONNECTED AT TABLE	1
	INPUT SOURCES	TBD	C2654537	THUNDERBOLT 4 USB-C 10-IN-1 DUAL DISPLAY DOCKING STATION	1
	INPUT SOURCES	QSC	NV-32-H	4K60 4:4:4 NETWORK VIDEO ENDPOINT FOR Q-SYS ECOSYSTEM	1
	INPUT SOURCES	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	INPUT SOURCES	TBD	BYOD	OFE PC AT DESK	1
	INPUT SOURCES	QSC	NV-32-H	4K60 4:4:4 NETWORK VIDEO ENDPOINT FOR Q-SYS ECOSYSTEM	1
	INPUT SOURCES	MIDDLE ATLANTIC	VSA-1626	1RU VENTED ADJUSTABLE RACKSHELF	1
	INPUT SOURCES	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	VIDEO/WEB CONFERENCING	CRESTRON	CCC-120-2	CRESTRON COLLAB COMPUTE W/INTEL CORE ULTRA 7 FOR ZOOM	1
	VIDEO/WEB CONFERENCING	CRESTRON	UC-COLLABCARE-1YR	PREMIUM CRESTRON FLEX SUPPORT FOR NEW COLLAB COMPUTE SYSTEMS, 1 YR	1
	VIDEO/WEB CONFERENCING	CRESTRON	TS-1080-UC-B	10" TABLETOP TOUCH SCREEN, UC VERSION	2
	VIDEO/WEB CONFERENCING	MIDDLE ATLANTIC	VSA-1626	1RU VENTED ADJUSTABLE RACKSHELF-16" TO 26"D	1
	VIDEO/WEB CONFERENCING	QSC	NV-21-HU	4K60 4:4:4 NETWORK VIDEO ENDPOINT FOR Q-SYS ECOSYSTEM	3
	VIDEO/WEB CONFERENCING	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR TABLE BYOD INSTALLATION	1
	VIDEO/WEB CONFERENCING	QSC	NC-20X60	Q-SYS POE PTZ CAMERA W/20X OPTICAL ZOOM	2
	VIDEO/WEB CONFERENCING	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	2
	VIDEO/WEB CONFERENCING	QSC	NC-20X60	Q-SYS POE PTZ CAMERA W/20X OPTICAL ZOOM	2
	VIDEO/WEB CONFERENCING	TBD	535-2000-206	SUSPENDED CEILING MOUNT FOR PTZ CAMERA	2
	VIDEO/WEB CONFERENCING	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	2
	AUDIO	AUDIO-TECHNICA	ES925C18/XLR	15 CARDIOD GOOSENECK W/XLR PREAMP	11
	AUDIO	AUDIO-TECHNICA	ATND8577A	DANTE ENABLED MICROPHONE DESK STAND W/LED SWITCH	11
	AUDIO	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	11
	AUDIO	AUDIO-TECHNICA	ES925C18/XLR	15 CARDIOD GOOSENECK W/XLR PREAMP	1
	AUDIO	AUDIO-TECHNICA	ATND8677A	DANTE ENABLED MICROPHONE DESK STAND W/LED SWITCH	1
	AUDIO	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	AUDIO	QSC	CORE 24F	Q-SYS CORE PROCESSOR WITH 24X LOCAL AUDIO I/O CHANNELS	1
	AUDIO	QSC	SLDAN-64-P	64X64 DANTE LICENSE FOR CORE, PERPETUAL	1
	AUDIO	ATTERO TECH	C	ATTERO TECH-1-GANG DIGITAL WALL CONTROL W/ KNOB AND OLED SCREEN	1
	AUDIO	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	AUDIO	LISTEN TECH	AURI-TX2N-D-AD	AURI 2-CHANNEL TRANSMITTER W/ DANTE	1
	AUDIO	LISTEN TECH	AURI-RX1	AURI WIRELESS RECEIVER	4
	AUDIO	LISTEN TECH	LA-438	ADVANCED NECK LOOPS (ADULT)	6
	AUDIO	LISTEN TECH	LA-164	EAR SPEAKER	6
	AUDIO	LISTEN TECH	AURI-D4-01	4-BAY AURI DOCKING STATION	1
	AUDIO	LISTEN TECH	LA-308	AURI ASSISTIVE LISTENING NOTIFICATION SIGNAGE KIT	1
	AUDIO	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	AUDIO	QSC	AD-C6T-ZB-WH	6.5" CEILING SPEAKER W/135 CONICAL DMT COVERAGE	22
	AUDIO	QSC	MP-A80V	1600W FLEXAMP TECHNOLOGY HI-Z/LO-Z AMPLIFIER	1
	AUDIO	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	CONTROL	CRESTRON	CP4N	4-SERIES CONTROL PROCESSOR WITH ETHERNET	1
	CONTROL	NETGEAR	GSM4248JX-100NAS	M4250-40G8XF-POE++40 X 1G POE++ (2880W) MANAGED SWITCH	1
	CONTROL	NETGEAR	GSM4230PX-100NAS	M4250-26G4XF-POE+24 X 1G POE+ (480W) MANAGED SWITCH	1
	CONTROL	NETGEAR	AXC761-100005	1M 10GB SFP+ DIRECT ATTACH COPPER CABLE	4
	CONTROL	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	CONTROL	CRESTRON	CEN-ODT-C-POE	CEILING MOUNTED OCCUPANCY SENSOR FOR 2000 SQ FT, W/POE	1
	CONTROL	CRESTRON	E-MICRO-TRHP	POE ENABLED TEMPERATURE AND HUMIDITY SENSOR	1
	CONTROL	CENERO	C3 TABLET	PROACTIVE CONCIERGE TABLET INCLUDED IN SERVICE PRICE	1
	CONTROL	CENERO	C3 DOCK	PROACTIVE CONCIERGE DOCK INCLUDED IN SERVICE PRICE	1
	CONTROL	CENERO	4G ROUTER	CENERO REMOTE ACCESS 4G ROUTER	1
	CONTROL	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	RACK	MIDDLE ATLANTIC	CFR-12-20	12 SPACE (21"), CABINET FRAME RACK, 20" DEEP	1
	RACK	MIDDLE ATLANTIC	5-RS20	LOW FRICTION RUNNER KIT FOR 20" DEEP CFR	1
	RACK	WATTBOX	WB-OVRC-UPS-2000-1	20A CAPABLE UPS	1
	RACK	WATTBOX	WB-800-IPVM-12	IP CONTROLLABLE 12 OUTLET 2RU POWER CONDITIONER AND SURGE PROTECTOR	1
	RACK	CENERO	RACK ACCESSORIES	RACK CABLE MANAGEMENT, BLANKS, VENTS, SHELVES, ETC.	1
	RACK	MIDDLE ATLANTIC	BGR-3827	38 SPACE (70.7"), 27" DEEP GANGABLE FLOOR RACK	1
	RACK	MIDDLE ATLANTIC	BSPN-38-27	SIDE PANELS FOR BGR-3827	1
	RACK	MIDDLE ATLANTIC	CBS-BGR	CASTER BASE KIT FOR THE BGR SERIES	1
	RACK	MIDDLE ATLANTIC	BPFD-38	PLEXI FRONT DOOR, FITS 38 SPACE BRG RACKS, BLACK FINISH	1
	RACK	MIDDLE ATLANTIC	BGR-552FT-FC	INTEGRATED FAN TOP, 552 CFM W/CONTROLLER	1
	RACK	MIDDLE ATLANTIC	VBK-BGR	VENT BLOCKER KIT	1
	RACK	WATTBOX	WB-OVRC-LIPS-2000-1	20A CAPABLE UPS	1
	RACK	WATTBOX	WB-800VPS-IPVM-18	IP CONTROLLABLE 18 OUTLET VERTICAL POWER CONDITIONER AND SURGE PROTECTOR	1
	RACK	CENERO	RACK ACCESSORIES	RACK CABLE MANAGEMENT, BLANKS, VENTS, SHELVES, ETC.	1
Meeting Room 233	DISPLAY	SAMSUNG	QN85QN70FAFXZA	85" UHD LED-LCD, 16/7, 350 NIT, 3X HDMI2.0, USB, AUDIO OUT, RS-232, LAN	1
	DISPLAY	PEERLESS	STS680-1UCM3	UNIVERSAL SMARTMOUNT TILT SCISSOR WALL MOUNT FOR 49" TO 120" DISPLAYS	1
	DISPLAY	WATTBOX	WB-200-CE-4	4 OUTLET, 12A SURGE SUPRESSOR	1
	DISPLAY	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	INPUT SOURCES	TBD	BYOD	OFE BYOD CONNECTED AT TABLE THROUGH OWNER PROVIDED GROMMET	1
	INPUT SOURCES	COMPREHENSIVE	USB10G-CC-10PROBLKA	10 PRO AV/IT INTEGRATOR SERIES ULTRA-FLEXIBLE 10G USB-C MALE TO USB-C MALE CABLE	1
	INPUT SOURCES	CRESTRON	HD-TXU-4KZ-211-CHGR	DM LITE 4K60 2 INPUT TRANSMITTER	1
	INPUT SOURCES	CRESTRON	HD-RXU-4KZ-202	DM LITE HDMI AND USB2.0 RECEIVER, 2x2 AUTO-SWITCHER	1
	INPUT SOURCES	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR TABLE BYOD INSTALLATION	1
	VIDEO/WEB CONFERENCING	NEAT	NEATBARPRO-SE	NEAT BAR PRO ANDROID UC BAR FOR TEAMS OR ZOOM	1
	VIDEO/WEB CONFERENCING	NEAT	PULSE-PRO-BARPRO3	PULSE PRO FOR NEAT BAR PRO AND NEAT PAD	1
	VIDEO/WEB CONFERENCING	NEAT	NEATPADPRO10-SE	NEAT PAD PRO 10 CONTROLLER/SCHEDULING DISPLAY	1
	VIDEO/WEB CONFERENCING	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
Meeting Room 321	DISPLAY	SAMSUNG	QN75QN70FAFXZA	75" UHD LED-LCD, 16/7, 350 NIT, 3X HDMI2.0, USB, AUDIO OUT, RS-232, LAN	1
	DISPLAY	PEERLESS	STS680-1UCM3	UNIVERSAL SMARTMOUNT TILT SCISSOR WALL MOUNT FOR 49" TO 120" DISPLAYS	1
	DISPLAY	WATTBOX	WB-200-CE-4	4 OUTLET, 12A SURGE SUPRESSOR	1
	DISPLAY	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	INPUT SOURCES	TBD	BYOD	OFE BYOD CONNECTED AT TABLE THROUGH OWNER PROVIDED GROMMET	1
	INPUT SOURCES	COMPREHENSIVE	USB10G-CC-10PROBLKA	10 PRO AV/IT INTEGRATOR SERIES ULTRA-FLEXIBLE 10G USB-C MALE TO USB-C MALE CABLE	1
	INPUT SOURCES	CRESTRON	HD-TXU-4KZ-211-CHGR	DM LITE 4K60 2 INPUT TRANSMITTER	1
	INPUT SOURCES	CRESTRON	HD-RXU-4KZ-202	DM LITE HDMI AND USB2.0 RECEIVER, 2x2 AUTO-SWITCHER	1
	INPUT SOURCES	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR TABLE BYOD INSTALLATION	1
	VIDEO/WEB CONFERENCING	NEAT	NEATBARPRO-SE	NEAT BAR PRO ANDROID UC BAR FOR TEAMS OR ZOOM	1
	VIDEO/WEB CONFERENCING	NEAT	PULSE-PRO-BARPRO3	PULSE PRO FOR NEAT BAR PRO AND NEAT PAD	1
	VIDEO/WEB CONFERENCING	NEAT	NEATPADPRO10-SE	NEAT PAD PRO 10 CONTROLLER/SCHEDULING DISPLAY	1
	VIDEO/WEB CONFERENCING	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
Divisible Meeting Room 322/323	DISPLAY	SAMSUNG	QN75QN70FAFXZA	75" UHD LED-LCD, 16/7, 350 NIT, 3X HDMI2.0, USB, AUDIO OUT, RS-232, LAN	2
	DISPLAY	PEERLESS	STS680-1UCM3	UNIVERSAL SMARTMOUNT TILT SCISSOR WALL MOUNT FOR 49" TO 120" DISPLAYS	2
	DISPLAY	WATTBOX	WB-200-CE-4	4 OUTLET, 12A SURGE SUPRESSOR	2
	DISPLAY	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	2
	INPUT SOURCES	TBD	BYOD	OFE BYOD CONNECTED AT TABLE THROUGH OWNER PROVIDED GROMMET	2
	INPUT SOURCES	COMPREHENSIVE	USB10G-CC-10PROBLKA	10 PRO AV/IT INTEGRATOR SERIES ULTRA-FLEXIBLE 10G USB-C MALE TO USB-C MALE CABLE	2
	INPUT SOURCES	CRESTRON	HD-TXU-4KZ-111-2G-W	DM LITE 4K60 TRANSMITTER WALL PLATE FOR USB-C DISPLAYPORT AND USB2.0	2
	INPUT SOURCES	CRESTRON	HD-RXU-4KZ-202	DM LITE HDMI AND USB2.0 RECEIVER, 2x2 AUTO-SWITCHER	2
	INPUT SOURCES	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR TABLE BYOD INSTALLATION	2
	VIDEO/WEB CONFERENCING	NEAT	NEATBARPRO-SE	NEAT BAR PRO ANDROID UC BAR FOR TEAMS OR ZOOM, 100MP CAMERA SYSTEM	2
	VIDEO/WEB CONFERENCING	NEAT	PULSE PRO-BARPRO3	PULSE PRO FOR NEAT BAR PRO AND NEAT PAD, INCLUDING CONTROL, CARE AND COVER FOR 3 YEARS	2
	VIDEO/WEB CONFERENCING	NEAT	NEATPADPRO10SE-	NEAT PAD PRO 10 CONTROLLER/SCHEDULING DISPLAY, 1 YR WARRANTY	2
	VIDEO/WEB CONFERENCING	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	2
	VIDEO/WEB CONFERENCING	NEAT	NEATCENTER-SE	360 DEGREE CAMERA AND MIC ARRAY EXPANSION ACCESSORY FOR THE NEAT BAR OR NEAT BAR PRO	1
	VIDEO/WEB CONFERENCING	NEAT	PULSE-PRO-CENTER3	PULSE PRO FOR NEAT CENTER, INCLUDING CONTROL, CARE AND COVER FOR 3 YEARS	1
	VIDEO/WEB CONFERENCING	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1

DIGITAL DISPLAY EQUIPMENT SCHEDULE

Room Name / #	Symbol	Description	Manufacturer	Model	Accessories 1	Accessories 2	Accessories 3	Furnished By	Installed By	Quantity
125 MEETING	M4	DIGITAL DISPLAY, 55" CLASS NEO QLED 4K QN70F SAMSUNG VISION AI SMART	SAMSUNG	QN55QN70FAFXZA	HD-RXC-4KZ-101	N/A	N/A	CONTRACTOR	CONTRACTOR	1
134 MEETING	M2	DIGITAL DISPLAY, 75" CLASS NEO QLED 4K QN70F SAMSUNG VISION AI SMART	SAMSUNG	QN75QN70FAFXZA	NEAT BAR PRO	HD-RXU-4KZ-202	N/A	CONTRACTOR	CONTRACTOR	1
135 MEETING	M2	DIGITAL DISPLAY, 75" CLASS NEO QLED 4K QN70F SAMSUNG VISION AI SMART	SAMSUNG	QN75QN70FAFXZA	NEAT BAR PRO	HD-RXU-4KZ-202	N/A	CONTRACTOR	CONTRACTOR	1
142 DRAFTING & REVIEW	M3	DIGITAL DISPLAY, 65" CLASS NEO QLED 4K QN70F SAMSUNG VISION AI SMART	SAMSUNG	QN85QN70FAFXZA	N/A	N/A	N/A	CONTRACTOR	CONTRACTOR	1
201 MEETING	M2	DIGITAL DISPLAY, 75" CLASS NEO QLED 4K QN70F SAMSUNG VISION AI SMART	SAMSUNG	QN75QN70FAFXZA	NEAT BAR PRO	HD-RXU-4KZ-202	N/A	CONTRACTOR	CONTRACTOR	1
207 MEETING	M1	DIGITAL DISPLAY, 85" CLASS NEO QLED 4K QN70F SAMSUNG VISION AI SMART	SAMSUNG	QN85QN70FAFXZA	NEAT BAR PRO	HD-RXU-4KZ-202	N/A	CONTRACTOR	CONTRACTOR	1
222 MEETING	M2	DIGITAL DISPLAY, 75" CLASS NEO QLED 4K QN70F SAMSUNG VISION AI SMART	SAMSUNG	QN75QN70FAFXZA	QSC NC-90-G2-BK	NV-21-HU	N/A	CONTRACTOR	CONTRACTOR	1
223 MEETING	M1	DIGITAL DISPLAY, 85" CLASS NEO QLED 4K QN70F SAMSUNG VISION AI SMART	SAMSUNG	QN85QN70FAFXZA	NV-21-HU	N/A	N/A	CONTRACTOR	CONTRACTOR	2
223 MEETING	M2	DIGITAL DISPLAY, 75" CLASS NEO QLED 4K QN70F SAMSUNG VISION AI SMART	SAMSUNG	QN75QN70FAFXZA	QSC NC-90-G2-BK	NV-21-HU	N/A	CONTRACTOR	CONTRACTOR	1
223 MEETING	M5	DIGITAL DISPLAY, 27" MONITOR			NV-21-HU	<varies>	<varies>	CONTRACTOR	CONTRACTOR	2
233 MEETING	M1	DIGITAL DISPLAY, 85" CLASS NEO QLED 4K QN70F SAMSUNG VISION AI SMART	SAMSUNG	QN85QN70FAFXZA	NEAT BAR PRO	HD-RXU-4KZ-202	N/A	CONTRACTOR	CONTRACTOR	1
321 CONFERENCE	M2	DIGITAL DISPLAY, 75" CLASS NEO QLED 4K QN70F SAMSUNG VISION AI SMART	SAMSUNG	QN75QN70FAFXZA	NEAT BAR PRO	HD-RXU-4KZ-202	N/A	CONTRACTOR	CONTRACTOR	1
322 CONFERENCE	M2	DIGITAL DISPLAY, 75" CLASS NEO QLED 4K QN70F SAMSUNG VISION AI SMART	SAMSUNG	QN75QN70FAFXZA	NEAT BAR PRO	HD-RXU-4KZ-202	N/A	CONTRACTOR	CONTRACTOR	1
323 CONFERENCE	M2	DIGITAL DISPLAY, 75" CLASS NEO QLED 4K QN70F SAMSUNG VISION AI SMART	SAMSUNG	QN75QN70FAFXZA	NEAT BAR PRO	HD-RXU-4KZ-202	N/A	CONTRACTOR	CONTRACTOR	1

System	Subsystem	Manufacturer	Part Number	Description	Qty
Meeting Room 125	DISPLAY	SAMSUNG	QN55QN70FAFXZA	55" UHD LED-LCD, 16/7, 350 NIT, 3X HDMI2.0, USB, AUDIO OUT, RS-232, LAN	1
	DISPLAY	PEERLESS	STS680-1UCM3	UNIVERSAL SMARTMOUNT TILT SCISSOR WALL MOUNT FOR 49" TO 120" DISPLAYS, 1.8"D TO 12.8' EXTENSION, UP TO 15 DEG TILT, INCLUDES ACC-UCM3 EQUIPMENT MOUNTING BRACKET, UP TO 250 LBS, TAA	1
	DISPLAY	WATTBOX	WB-200-CE-4	4 OUTLET, 12A SURGE SUPRESSOR	1
	DISPLAY	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	INPUT SOURCES	TBD	BYOD	OFE BYOD CONNECTED AT TABLE BOX	1
	INPUT SOURCES	CRESTRON	HD-TXC-4KZ-101	DM LITE HDMI TRANSMITTER W/ RS-232 & IR, 230 FT 1080P, 130 FT 4K	1
	INPUT SOURCES	CRESTRON	HD-RXC-4KZ-101	DM LITE HDMI RECEIVER W/ RS-232 AND IR CONTROL PORTS, 230 FT 1080P, 130 FT 4K	1
	INPUT SOURCES	LIBERTY AV	DL-AR1882	ADAPTER RING W/ HDMI TO USB-C ADAPTER, 4K CAPABLE	1
	INPUT SOURCES	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR TABLE BYOD INSTALLATION	1
Divisible Meeting Room 134/135	DISPLAY	SAMSUNG	QN75QN70FAFXZA	75" UHD LED-LCD, 16/7, 350 NIT, 3X HDMI2.0, USB, AUDIO OUT, RS-232, LAN	2
	DISPLAY	PEERLESS	STS680-1UCM3	UNIVERSAL SMARTMOUNT TILT SCISSOR WALL MOUNT FOR 49" TO 120" DISPLAYS	2
	DISPLAY	WATTBOX	WB-200-CE-4	4 OUTLET, 12A SURGE SUPRESSOR	2
	DISPLAY	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	2
	INPUT SOURCES	TBD	BYOD	OFE BYOD CONNECTED AT TABLE THROUGH OWNER PROVIDED GROMMET	2
	INPUT SOURCES	COMPREHENSIVE	USB10G-CC-10PROBLKA	10 PRO AV/IT INTEGRATOR SERIES ULTRA-FLEXIBLE 10G USB-C MALE TO USB-C MALE CABLE	2
	INPUT SOURCES	CRESTRON	HD-TXU-4KZ-111-2G-W	DM LITE 4K60 TRANSMITTER WALL PLATE FOR USB-C DISPLAYPORT AND USB2.0	2
	INPUT SOURCES	CRESTRON	HD-RXU-4KZ-202	DM LITE HDMI AND USB2.0 RECEIVER, 2x2 AUTO-SWITCHER	2
	INPUT SOURCES	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR TABLE BYOD INSTALLATION	2
	VIDEO/WEB CONFERENCING	NEAT	NEATBARPRO-SE	NEAT BAR PRO ANDROID UC BAR FOR TEAMS OR ZOOM	2
	VIDEO/WEB CONFERENCING	NEAT	PULSE PRO-BARPRO3	PULSE PRO FOR NEAT BAR PRO AND NEAT PAD, INCLUDING CONTROL, CARE AND COVER FOR 3 YEARS	2
	VIDEO/WEB CONFERENCING	NEAT	NEATPADPRO10SE-	NEAT PAD PRO 10 CONTROLLER/SCHEDULING DISPLAY, 1 YR WARRANTY	2
	VIDEO/WEB CONFERENCING	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	2
	VIDEO/WEB CONFERENCING	NEAT	NEATCENTER-SE	360 DEGREE CAMERA AND MIC ARRAY EXPANSION ACCESSORY FOR THE NEAT BAR OR NEAT BAR PRO	1
	VIDEO/WEB CONFERENCING	NEAT	PULSE-PRO-CENTER3	PULSE PRO FOR NEAT CENTER, INCLUDING CONTROL, CARE AND COVER FOR 3 YEARS	1
	VIDEO/WEB CONFERENCING	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
Drafting & Review 142	DISPLAY	SAMSUNG	QN65QN70FAFXZA	65" UHD LED-LCD, 16/7, 350 NIT, 3X HDMI2.0, USB, AUDIO OUT, RS-232, LAN	1
	DISPLAY	PEERLESS	STS680-1UCM3	UNIVERSAL SMARTMOUNT TILT SCISSOR WALL MOUNT FOR 49" TO 120" DISPLAYS	1
	DISPLAY	WATTBOX	WB-200-CE-4	4 OUTLET, 12A SURGE SUPRESSOR	1
	DISPLAY	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	INPUT SOURCES	TBD	BYOD	OFE BYOD CONNECTED AT TABLE BOX	1
	INPUT SOURCES	COMPREHENSIVE	HD18G-15PROBLK	15 PRO AV/IT CERTIFIED 18GB 4K SERIES HIGH SPEED HDMI CABLE W/ PROGRIP, BLACK	1
	INPUT SOURCES	LIBERTY AV	DL-AR1882	ADAPTER RING W/HDMI TO USB-C ADAPTER, 4K CAPABLE	1
	INPUT SOURCES	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR TABLE BYOD INSTALLATION	1
Meeting Room 201	DISPLAY	SAMSUNG	QN75QN70FAFXZA	75" UHD LED-LCD, 16/7, 350 NIT, 3X HDMI2.0, USB, AUDIO OUT, RS-232, LAN	1
	DISPLAY	PEERLESS	STS680-1UCM3	UNIVERSAL SMARTMOUNT TILT SCISSOR WALL MOUNT FOR 49" TO 120" DISPLAYS	1
	DISPLAY	WATTBOX	WB-200-CE-4	4 OUTLET, 12A SURGE SUPRESSOR	1
	DISPLAY	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	INPUT SOURCES	TBD	BYOD	OFE BYOD CONNECTED AT TABLE THROUGH OWNER PROVIDED GROMMET	1
	INPUT SOURCES	COMPREHENSIVE	USB10G-CC-10PROBLKA	10 PRO AV/IT INTEGRATOR SERIES ULTRA-FLEXIBLE 10G USB-C MALE TO USB-C MALE CABLE	1
	INPUT SOURCES	CRESTRON	HD-TXU-4KZ-211-CHGR	DM LITE 4K60 2 INPUT TRANSMITTER	1
	INPUT SOURCES	CRESTRON	HD-RXU-4KZ-202	DM LITE HDMI AND USB2.0 RECEIVER, 2x2 AUTO-SWITCHER	1
	INPUT SOURCES	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR TABLE BYOD INSTALLATION	1
	VIDEO/WEB CONFERENCING	NEAT	NEATBARPRO-SE	NEAT BAR PRO ANDROID UC BAR FOR TEAMS OR ZOOM	1
	VIDEO/WEB CONFERENCING	NEAT	PULSE-PRO-BARPRO3	PULSE PRO FOR NEAT BAR PRO AND NEAT PAD	1
	VIDEO/WEB CONFERENCING	NEAT	NEATPADPRO10-SE	NEAT PAD PRO 10 CONTROLLER/SCHEDULING DISPLAY	1
	VIDEO/WEB CONFERENCING	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
Meeting Room 207	DISPLAY	SAMSUNG	QN85QN70FAFXZA	85" UHD LED-LCD, 16/7, 350 NIT, 3X HDMI2.0, USB, AUDIO OUT, RS-232, LAN	1
	DISPLAY	PEERLESS	STS680-1UCM3	UNIVERSAL SMARTMOUNT TILT SCISSOR WALL MOUNT FOR 49" TO 120" DISPLAYS	1
	DISPLAY	WATTBOX	WB-200-CE-4	4 OUTLET, 12A SURGE SUPRESSOR	1
	DISPLAY	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
	INPUT SOURCES	TBD	BYOD	OFE BYOD CONNECTED AT TABLE THROUGH OWNER PROVIDED GROMMET	1
	INPUT SOURCES	COMPREHENSIVE	USB10G-CC-10PROBLKA	10 PRO AV/IT INTEGRATOR SERIES ULTRA-FLEXIBLE 10G USB-C MALE TO USB-C MALE CABLE	1
	INPUT SOURCES	CRESTRON	HD-TXU-4KZ-211-CHGR	DM LITE 4K60 2 INPUT TRANSMITTER	1
	INPUT SOURCES	CRESTRON	HD-RXU-4KZ-202	DM LITE HDMI AND USB2.0 RECEIVER, 2x2 AUTO-SWITCHER	1
	INPUT SOURCES	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR TABLE BYOD INSTALLATION	1
	VIDEO/WEB CONFERENCING	NEAT	NEATBARPRO-SE	NEAT BAR PRO ANDROID UC BAR FOR TEAMS OR ZOOM	1
	VIDEO/WEB CONFERENCING	NEAT	PULSE-PRO-BARPRO3	PULSE PRO FOR NEAT BAR PRO AND NEAT PAD	1
	VIDEO/WEB CONFERENCING	NEAT	NEATPADPRO10-SE	NEAT PAD PRO 10 CONTROLLER/SCHEDULING DISPLAY	1
	VIDEO/WEB CONFERENCING	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	1
Divisible Meeting Room 222/223	DISPLAY	SAMSUNG	QN75QN70FAFXZA	75" UHD LED-LCD, 16/7, 350 NIT, 3X HDMI2.0, USB, AUDIO OUT, RS-232, LAN	2
	DISPLAY	PEERLESS	STS680-1UCM3	UNIVERSAL SMARTMOUNT TILT SCISSOR WALL MOUNT FOR 49" TO 120" DISPLAYS	2
	DISPLAY	WATTBOX	WB-250-IPW-2	IP POWER STRIP & SURGE PROTECTOR W/ WI-FI, 2 CONTROLLED OUTLETS	2
	DISPLAY	QSC	NV-21-HU	4K60 4:4:4 NETWORK VIDEO ENDPOINT FOR Q-SYS ECOSYSTEM	2
	DISPLAY	CENERO	MATERIALS AND CABLES	MATERIALS AND CABLES NEEDED FOR INSTALLATION	2
	INPUT SOURCES	TBD	BYOD	OFE BYOD CONNECTED AT TABLE	2
	INPUT SOURCES	COMPREHENSIVE	USB10G

CONDUIT SIZING AND MAXIMUM FILL BY CABLE DIAMETER		
CONDUIT TRADE SIZE (IN)	CAT 6 CABLE DIA IN (0.23)	CAT 6A CABLE DIA IN (0.27)
3/4	5	3
1	7	5
1-1/4	13	9
1-1/2	18	13
2	29	21
2-1/2	42	31
3	65	48
3-1/2	87	64
4	112	82

NOTES:
1. THE CALCULATIONS USED TO DETERMINE CONDUIT FILL ARE BASED ON A 40 PERCENT INITIAL FILL FACTOR ASSUMING STRAIGHT RUNS WITH NO DEGREES OF BEND.

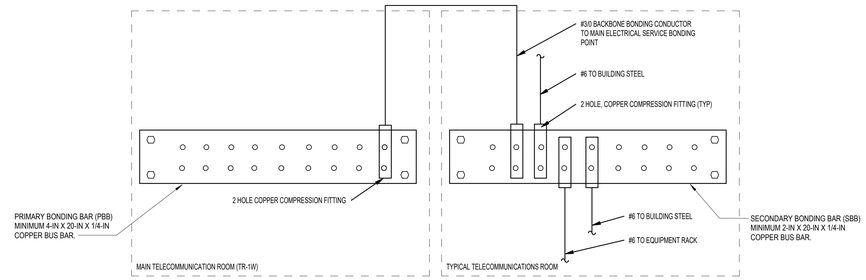
2. WHERE CONDUIT RUNS CONTAIN BENDS BETWEEN PULL POINTS, CONDUIT SIZING SHALL BE INCREASED ACCORDINGLY TO MAINTAIN THE SAME CABLE CAPACITY AS STRAIGHT RUNS, AS APPLICABLE.

3. WHERE DIAMETERS OF INSTALLED CABLES ARE LARGER THAN THOSE INDICATED IN THE TABLE, MAXIMUM QUANTITIES SHALL BE DECREASED ACCORDINGLY.

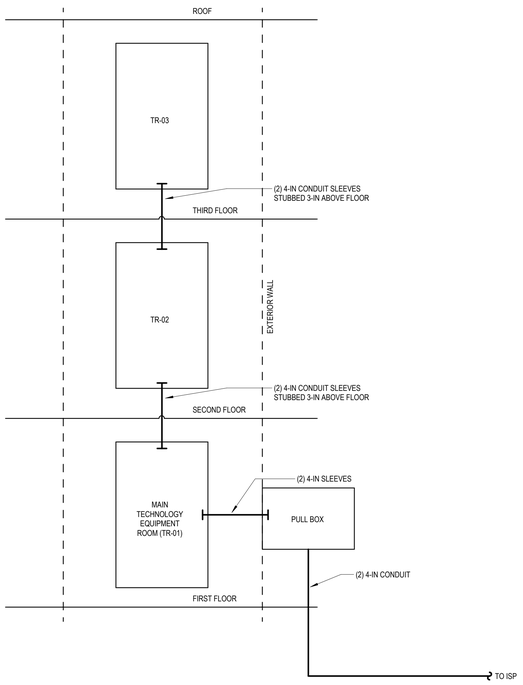
4. FIRE AND SMOKE STOP PENETRATION ASSEMBLIES MAY REQUIRE DIFFERENT FILL RATIOS. ADJUST MAXIMUM FILL ACCORDING TO MANUFACTURER'S REQUIREMENTS.

5. REFER TO AND COMPLY WITH ANSI/TIA-569-E STANDARD, LATEST EDITION.

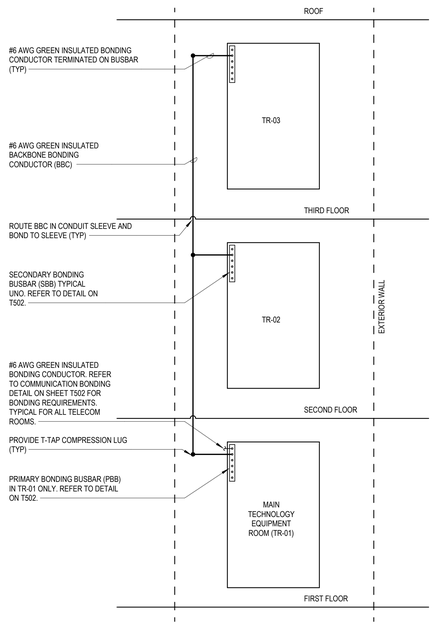
2 CONDUIT FILL TABLE
NOT TO SCALE



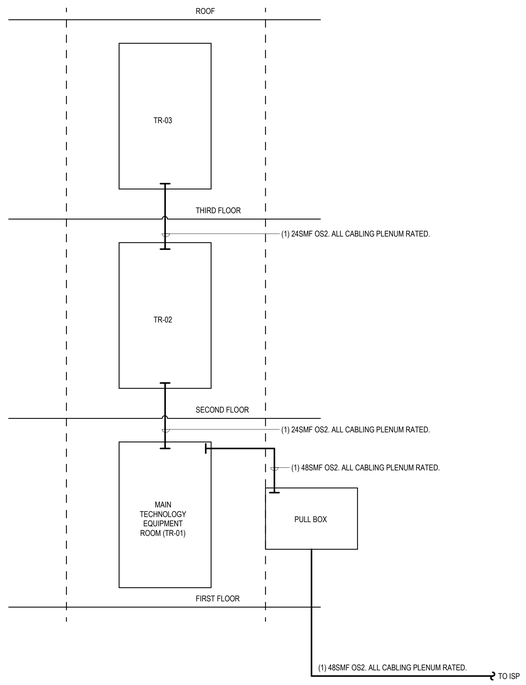
1 COMMUNICATION BONDING BAR TYPICAL CONNECTIONS
NOT TO SCALE



5 COMMUNICATIONS PATHWAY BACKBONE RISER DIAGRAM
NOT TO SCALE



4 COMMUNICATIONS BONDING BACKBONE RISER DIAGRAM
NOT TO SCALE



NOTES:
1. REFER TO TELECOM ROOM ENLARGED PLANS AND ELEVATIONS FOR TERMINATIONS AND CONNECTIVITY.

3 FIBER AND COPPER BACKBONE RISER DIAGRAM
NOT TO SCALE

PROGRESSIVE AE, INC.
PROGRESSIVE COMPANIES
Charlotte, NC | Detroit, MI | Grand Rapids, MI
weareprogressive.com

ISABELLA COUNTY
ADMINISTRATION BUILDING INTERIOR RENOVATION
200 N. MAIN STREET
MT. PLEASANT, MI 48858

NOT FOR CONSTRUCTION

ISSUANCE
10/13/2026 Bids

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
D. ELYA
DRAWN BY
C. MITCHELL
CHECKED BY
D. ELYA

ICT NETWORK DATA SCHEDULES AND DIAGRAMS
T602

10/13/2026 1:06:11 PM Autodesk Docs://23000001 - Isabella County Admin Building/23000001-ICAB-ICT1.rvt
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ICT NETWORK DATA SCHEDULES AND DIAGRAMS
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INTERIOR IP CAMERA SYSTEM SCHEDULE

CAMERA LABEL	CAMERA ENVIRONMENT	MOUNTING	ELEV ABOVE FLOOR LEVEL	MANUFACTURER	MODEL #	LENS TYPE	REQUIRED SPECIFICATIONS	ACCESSORIES 1	ACCESSORIES 2	ACCESSORIES 3	ACCESSORIES 4	COMMENTS	TR TERMINATION	CABLE LABEL	SWITCH PORT #	MAC ADDRESS	IP ADDRESS
CA-01-101	INTERIOR	WALL	8'-0"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3101	N/A	N/A	N/A		TR-01	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-01-102	INTERIOR	WALL	7'-0"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3101	N/A	N/A	N/A		TR-01	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-02-103	INTERIOR	CEILING	9'-8 3/32"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3603	N/A	N/A	N/A		TR-01	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-01-104	INTERIOR	WALL	8'-0"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3101	N/A	N/A	N/A		TR-01	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-02-105	INTERIOR	CEILING	9'-8 3/32"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3603	N/A	N/A	N/A		TR-01	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-01-106	INTERIOR	WALL	7'-0"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3101	N/A	N/A	N/A		TR-01	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-01-107	INTERIOR	WALL	9'-0"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3101	N/A	N/A	N/A		TR-01	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-05-109	INTERIOR	CORNER	7'-0"	AXIS	P9117-PV	1.1MM	6MP	N/A	N/A	N/A	N/A		TR-01	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-01-110	INTERIOR	WALL	9'-0"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3101	N/A	N/A	N/A		TR-01	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-01-111	INTERIOR	WALL	7'-6"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3101	N/A	N/A	N/A		TR-01	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-01-201	INTERIOR	WALL	9'-0"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3101	N/A	N/A	N/A		TR-02	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-01-202	INTERIOR	WALL	9'-0"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3101	N/A	N/A	N/A		TR-02	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-03-203	INTERIOR	WALL	8'-0"	AXIS	P4705-PLVE	VARIFOCAL 3MM-9MM	2X2MP	AXIS TP3101	N/A	N/A	N/A		TR-02	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-03-204	INTERIOR	WALL	8'-0"	AXIS	P4705-PLVE	VARIFOCAL 3MM-9MM	2X2MP	AXIS TP3101	N/A	N/A	N/A		TR-02	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-01-205	INTERIOR	WALL	6'-7"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3101	N/A	N/A	N/A		TR-02	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-04-206	INTERIOR	CEILING	8'-1"	AXIS	P3735-PLE	VARIFOCAL 3MM-9MM	4X2MP	AXIS TP3603	N/A	N/A	N/A		TR-02	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-01-207	INTERIOR	WALL	8'-0"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3101	N/A	N/A	N/A		TR-02	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-03-301	INTERIOR	WALL	8'-0"	AXIS	P4705-PLVE	VARIFOCAL 3MM-9MM	2X2MP	AXIS TP3101	N/A	N/A	N/A		TR-03	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-01-302	INTERIOR	WALL	8'-6"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3101	N/A	N/A	N/A		TR-03	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-03-303	INTERIOR	WALL	8'-6"	AXIS	P4705-PLVE	VARIFOCAL 3MM-9MM	2X2MP	AXIS TP3101	N/A	N/A	N/A		TR-03	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-01-304	INTERIOR	WALL	8'-6"	AXIS	P3275-LV	VARIFOCAL 3MM-9MM	2MP	AXIS TP3101	N/A	N/A	N/A		TR-03	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER

NOTES:
MOUNTING HEIGHT FOR CAMERAS IN STAIRWELLS IS TO LANDING DIRECTLY BENEATH.

ALL CAMERAS ARE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, INCLUDING ALL CABLING AND TERMINATIONS.

COMMENTS:

1. ADJUSTED TO CORRIDOR MODE AS APPLICABLE, COORDINATE RECESSING CAMERA IN FIELD WHERE SPACE ALLOWS.
2. COORDINATE RECESSING CAMERA IN FIELD WHERE SPACE ALLOWS.
3. COORDINATE EXACT MOUNTING HEIGHT IN FIELD PRIOR TO INSTALLATION.

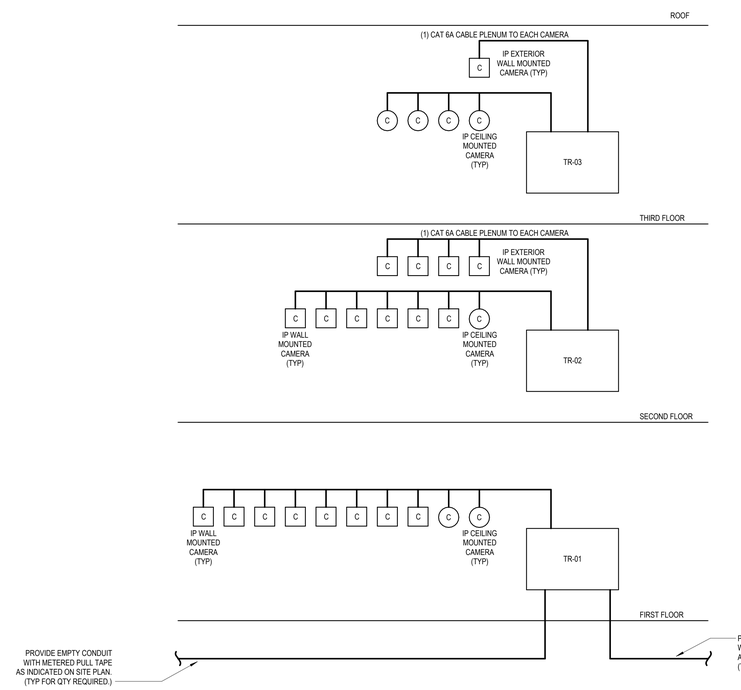
EXTERIOR IP CAMERA SYSTEM SCHEDULE

CAMERA LABEL	CAMERA ENVIRONMENT	MOUNTING	Elevation from Level	MANUFACTURER	MODEL #	LENS TYPE	REQUIRED SPECIFICATIONS	ACCESSORIES 1	ACCESSORIES 2	ACCESSORIES 3	ACCESSORIES 4	COMMENTS	TR TERMINATION	CABLE LABEL	SWITCH PORT #	MAC ADDRESS	IP ADDRESS
CA-09-208	EXTERIOR	WALL	13'-6"	AXIS	P3735-PLE	VARIFOCAL 3MM-9MM	4X2MP	TQ5301-E	T94N01D	N/A	N/A		TR-02	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-08-209	EXTERIOR	WALL	13'-6"	AXIS	P3275-LVE	VARIFOCAL 3MM-9MM	2MP	AXIS TP3005-E	N/A	N/A	N/A		TR-02	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-06-210	EXTERIOR	WALL	13'-6"	AXIS	P4705-PLVE	VARIFOCAL 3MM-9MM	2X2MP	AXIS T91H61	T94N02D	N/A	N/A		TR-02	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-06-211	EXTERIOR	WALL	13'-6"	AXIS	P4705-PLVE	VARIFOCAL 3MM-9MM	2X2MP	AXIS T91H61	T94N02D	N/A	N/A		TR-02	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER
CA-07-305	EXTERIOR	PARAPET	0"	AXIS	P3735-PLE	VARIFOCAL 3MM-9MM	4X2MP	T91D62	T94N01D	N/A	N/A		TR-03	AS APPLICABLE	BY OWNER	BY OWNER	BY OWNER

NOTES:
ALL CAMERAS ARE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, INCLUDING ALL CABLING AND TERMINATIONS.

COMMENTS:

1. CONDUIT FEED ON EAST OR WEST SIDE OF CORNER TO MINIMIZE EXPOSURE TO W MAIN ST AND QUAD AREAS, UNO.
2. COORDINATE EXACT MOUNTING HEIGHT IN FIELD PRIOR TO INSTALLATION.



1 **EXAMPLE IP VIDEO SURVEILLANCE RISER DIAGRAM**
NOT TO SCALE

PROGRESSIVE AE, INC.
PROGRESSIVE COMPANIES
Charlotte, NC | Detroit, MI | Grand Rapids, MI
weareprogressive.com

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ADMINISTRATION BUILDING INTERIOR RENOVATION
200 N. MAIN STREET
MT. PLEASANT, MI 48858

NOT FOR CONSTRUCTION

ISSUANCE
10/13/2026 Bids

PROJECT NUMBER
23000001
PROJECT MANAGER
T. FREY
PROFESSIONAL
D. ELYA
DRAWN BY
C. MITCHELL
CHECKED BY
D. ELYA

ICT SECURITY SYSTEMS SCHEDULES AND DIAGRAMS
T603

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