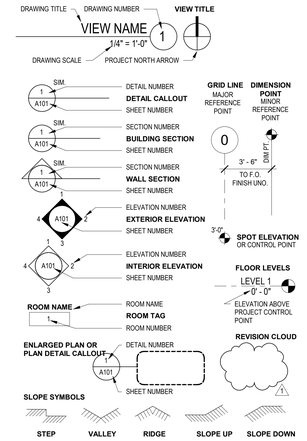
THE SUMMIT BUILDING REMODEL

TYPICAL ABBREVIATIONS

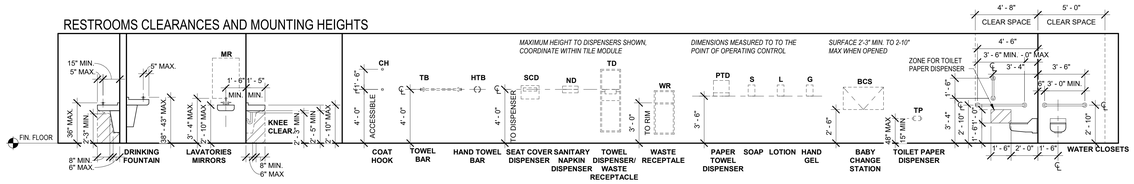
NOTE: NOT ALL ABBREVIATIONS SHOWN MAY BE USED OR LISTED

A/C	AIR CONDITIONING
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICAN W/DISABILITIES ACT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE, ALTERNITIVE
AOW	AREA OF WORK
BATT	BATT INSULATION
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BO	BOTTOM OF
BOC	BACK OF CURB
BOD	BASIS OF DESIGN
BOT	BOTTOM
BS	BOTH SIDES
CB	CATCH BASIN
CBA	CEMENT BACKER BOARD
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
CP	CEMENT PLASTER
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTERSINK
DEMO	DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DIM PT	DIMENSION POINT
DN	DOWN
DP	DAMPPROOFING
DW	DISHWASHER
(E)	EXISTING
EA	EACH
EB	EXPANSION BOLT
EJ	EXPANSION JOINT
ELEV	ELEVATION
ENM	ENAMEL
EO	ELECTRIC OUTLET
ETR	EXISTING TO REMAIN
EXT	EXTEROR
F&I	FURNISH AND INSTALL
FA	FIRE ALARM
FABX	FIRE ALARM BOX
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFE	FURNITURE, FIXTURE & EQUIPMENT
FO	FACE OF or FINISHED OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
GMU	GLASS MASONRY UNIT
GYP	GYPSUM
GWB	GYPSUM WALL BOARD
HDRL	HANDRAIL
HDW	HARDWARE
HT	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING
JAN	JANITOR
JC	JANITOR'S CLOSET
LAV	LAVATORY
LVT	LUXURY VINYL TILE
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MI	MIRROR
MIN	MINIMUM
MO	MASONRY OPENING
MTL	METAL
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER or OVERFLOW DRAIN
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OTS	OPEN TO STRUCTURE
PL	PLATE or PLASTIC LAMINATE or PROPERTY LINE
PT	PRESSURE TREATED
PWD	PLYWOOD
QT	QUARRY TILE
QTY	QUANTITY
R	RADIUS, RISER
RB	RESILIENT BASE
RD	ROOF DRAIN
RELOC	RELOCATE(D)
REPL	REPLACE
REQ	REQUIRED
RET	RETURN or RETENTION
RF	RESILIENT FLOORING
RM	ROOM
RO	ROUGH OPENING
RT	RESILIENT TILE
SAM	SELF ADHERED FLEXIBLE FLASHING
SIM	SIMILAR
STN	STONE SLAB/VENEER
SV	SHEET VINYL
SYM	SYMBOL or SYMMETRICAL
T	TEMPERED or TILE
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TD	TRECH DRAIN or TOWN DOWN'
THK	THICKNESS)
T/M	TO MATCH
TO	TOP OF
TOD	TOP OF DECK
TOP	TOP OF PARAPET or TOP OF PAVEMENT
TOR	TOP OF ROOF
TOS	TOP OF SLAB or TOP OF STEEL
TWO	TOP OF WALL
T-STAT	TERMOSTAT
TS	TUBE STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UOS	UNDERSIDE OF STRUCTURE
VCT	VINYL COMPOSITE TILE
VEN	VENEER
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WEST or WIDTH
W/	WITH
WD	WOOD
WF	WIDE FLANGE
WH	WATER HEATER
W/O	WITHOUT
W PANEL	WOOD PANELING
WRB	WEATHER RESISTANT BARRIER
WWF	WELDED WIRE FABRIC

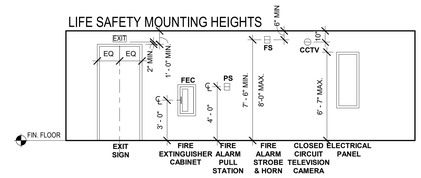
GENERAL SYMBOLS



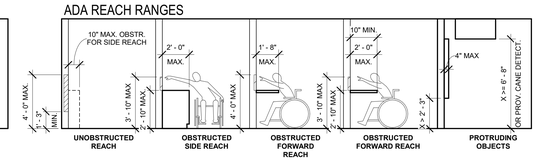
RESTROOMS CLEARANCES AND MOUNTING HEIGHTS



LIFE SAFETY MOUNTING HEIGHTS



ADA REACH RANGES



ADA CLEARANCES
1/4" = 1'-0"

PROJECT SUMMARY

PROJECT NAME: BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE
PROJECT ADDRESS: 1260 NW WATERHOUSE AVE BEAVERTON, OR 97006

CONSTRUCTON TYPE: V-B (SPRINKLERED)
BUILDING HEIGHT: 3-STORIES
BUILDING OCCUPANCY: B-OFFICE

TENANT SUITE SIZE:
OCCUPANT LOAD:

PROJECT SCOPE

LIGHT RENOVATION OF TWO STORIES OF AN EXISTING OFFICE BUILDING FOR NEW TENANT. CHANGE OF USE ON THE GROUND FLOOR FOR ASSEMBLY SPACE FROM OFFICE SPACE. DESIGN DRAWINGS FOR MECHANICAL, ELECTRICAL AND PLUMBING PART OF BUILDING SUBMITTAL.

PROJECT TEAM

OWNER: **BEAVERTON SCHOOL DISTRICT**
16550 SW MERLO ROAD
BEAVERTON, OREGON 97003

ATTN: **JASON MOURRAY, BEAVERTON SCHOOL DISTRICT**
JASON_MOURRAY@BEAVERTON.K12.OR.US
971.354.2844

ARCHITECT: **HBX STUDIO ARCHITECTURE, INC.**
2505 SE 11TH AVE, SUITE 117
PORTLAND, OR 97202
WWW.HBX-STUDIO.COM

ATTN: **MICHAEL BARRETT, AIA**
MICHAEL@HBX-STUDIO.COM

ENGINEER: **KCL ENGINEERING**
312 NW 10TH AVE, SUITE 100
PORTLAND, OR 97209
WWW.KCLENGINEERING.COM

ATTN: **ADAM KOBLE, PE**
AKOBLE@KCLENGINEERING.COM

ATTN: **ALI AL-DOSSARY, PE**
AAL-DOSSARY@KCLENGINEERING.COM

CONTRACTOR: **TBD**

DEFERRED SUBMITTALS - DESIGN/BUILD

ALL DEFERRED SUBMITTALS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL WITH A NOTATION INDICATING THAT THE DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN CONFORMANCE WITH THE DESIGN DIRECTION WITHIN THESE DOCUMENTS.

ALL WORK IS SUBJECT TO FIELD INSPECTION. DO NOT COVER WORK PRIOR TO CITY INSPECTION.

LOW VOLTAGE SYSTEMS

SEPARATE PERMIT(S)

SEPARATE PERMITS ARE REQUIRED FOR THE BELOW ITEMS. THE GENERAL CONTRACOTR SUBMIT PLANS FOR REVIEW AND APPROVAL TO THE LOCAL AUTHORITY HAVING JURISDICIATION.

FIRE PROTECTION SYSTEMS **FIRE ALARM**

LIST OF DRAWINGS

SHEET	DRAWING NAME	CURRENT REVISION
G001	COVER PAGE	
G101	FIRE, LIFE & SAFETY PLAN	
G102	SITE PLAN	
AD101	DEMOLITION PLAN - GROUND FLOOR	
AD102	DEMOLITION PLAN - SECOND FLOOR	
AD103	DEMOLITION PLAN - THIRD FLOOR	
A101	FLOOR PLAN - GROUND FLOOR	
A102	FLOOR PLAN - LEVEL 2	
A103	FLOOR PLAN - LEVEL 3	
A201	REFLECTED CEILING PLAN - GROUND FLOOR	
A202	REFLECTED CEILING PLAN - LEVEL 2	
A203	REFLECTED CEILING PLAN - LEVEL 3	
A601	FLOOR FINISH PLAN - GROUND FLOOR	
A602	FLOOR FINISH PLAN - LEVEL 2	
A603	FLOOR FINISH PLAN - LEVEL 3	
A650	FINISH & EQUIPMENT SCHEDULES & PAINT DIAGRAMS	
A651	INTERIOR ELEVATIONS	
A700	EXTERIOR ELEVATIONS & DETAILS	
A800	TYPICAL PARTITION DETAILS	
A810	TYPICAL SUSPENDED CEILING DETAILS	
A850	TYPICAL INTERIOR DETAILS	
A900	DOORS, FRAMES, HARDWARE SCHEDULE & TYPICAL OPENING DETAILS	
S4.1	DETAILS	
M000	MECHANICAL GENERAL NOTES AND SYMBOLS	
MD101	MECHANICAL DEMOLITION - LEVEL 1	
MD102	MECHANICAL DEMOLITION - LEVEL 2	
MD103	MECHANICAL DEMOLITION - LEVEL 3	
M101	MECHANICAL HVAC PLAN - LEVEL 1	
M102	MECHANICAL HVAC PLAN - LEVEL 2	
M103	MECHANICAL HVAC PLAN LEVEL 3	
M104	MECHANICAL HVAC PLAN - ROOF	
M300	MECHANICAL DETAILS	
M400	MECHANICAL CONTROLS	
M500	MECHNICAL SCHEDULES	
PD101	PLUMBING DEMOLITION - LEVEL 1	
PD102	PLUMBING DEMOLITION - LEVEL 2	
PD103	PLUMBING DEMOLITION - LEVEL 2	
P101	PLUMBING PLAN - LEVEL 1	
P102	PLUMBING PLAN - LEVEL 2	
P103	PLUMBING PLAN - LEVEL 3	
P500	PLUMBING SCHEDULES	
F101	FIRE PROTECTION PLAN - LEVEL 1	
F102	FIRE PROTECTION PLAN - LEVEL 2	
F103	FIRE PROTRECTION PLAN - LEVEL 3	
E000	ELECTRICAL GENERAL NOTES & SYMBOLS	
ED101	ELECTRICAL DEMOLITION - LEVEL 1	
ED102	ELECTRICAL DEMOLITION - LEVEL 2	
ED103	ELECTRICAL DEMOLITION - LEVEL 3	
E101	ELECTRICAL LIGHTING PLAN - LEVEL 1	
E102	ELECTRICAL LIGHTING PLAN - LEVEL 2	
E103	ELECTRICAL LIGHTING PLAN - LEVEL 3	
E201	ELECTRICAL PLAN - LEVEL 1	
E202	ELECTRICAL PLAN - LEVEL 2	
E203	ELECTRICAL PLAN - LEVEL 3	
E204	ELECTRICAL PLAN - ROOF	
E301	ELECTRICAL SCHEDULES	
E401	ELECTRICAL ONE-LINE DIAGRAM AND PANEL SCHEDULE	
E402	PANEL SCHEDULES	
E403	PANEL SCHEDULES	
T000	TECHNOLOGY GENERAL NOTES & SYMBOLS	
TD101	TECHNOLOGY DEMOLITION PLAN - LEVEL 1	
TD102	TECHNOLOGY DEMOLITION PLAN - LEVEL 2	
TD103	TECHNOLOGY DEMOLITION PLAN - LEVEL 3	
T101	TECHNOLOGY COMMUNICATIONS PLAN - LEVEL 1	
T102	TECHNOLOGY COMMUNICATIONS PLAN - LEVEL 2	
T103	TECHNOLOGY COMMUNICATIONS PLAN - LEVEL 3	
T201	TECHNOLOGY COMMUNICATIONS CEILING PLAN - LEVEL 1	
T202	TECHNOLOGY COMMUNICATIONS PLAN - LEVEL 2	
T203	TECHNOLOGY COMMUNICATIONS CEILING PLAN - LEVEL 3	
T301	TECHNOLOGY LIFE SAFETY & SECURITY PLAN - LEVEL 1	
T302	TECHNOLOGY LIFE SAFETY & SECURITY PLAN - LEVEL 2	
T303	TECHNOLOGY LIFE SAFETY & SECURITY PLAN - LEVEL 3	
T501	TECHNOLOGY DETAILS	
T502	TECHNOLOGY DETAILS	
T503	TECHNOLOGY DETAILS	
T504	TECHNOLOGY DETAILS	
AV101	AUDIO VISUAL FLOOR PLAN - LEVEL 1	
AV102	AUDIO VISUAL FLOOR PLAN - LEVEL 2	
AV103	AUDIO VISUAL FLOOR PLAN - LEVEL 3	
AV201	AUDIO VISUAL CEILING PLAN - LEVEL 1	
AV301	AUDIO VISUAL ELECTRICAL PLAN - LEVEL 1	
AV302	AUDIO VISUAL ELECTRICAL PLAN - LEVEL 2	
AV303	AUDIO VISUAL ELECTRICAL PLAN - LEVEL 3	
AV500	AUDIO VISUAL DETAILS	
AV501	AUDIO VISUAL ELEVATIONS	
AV502	AUDIO VISUAL SYSTEMS EQUIPMENT	
AV503	AUDIO VISUAL DETAILS	

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REGISTERED ARCHITECT MICHAEL BARRETT OR No. 5889 STATE OF OREGON

REVISIONS:

BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

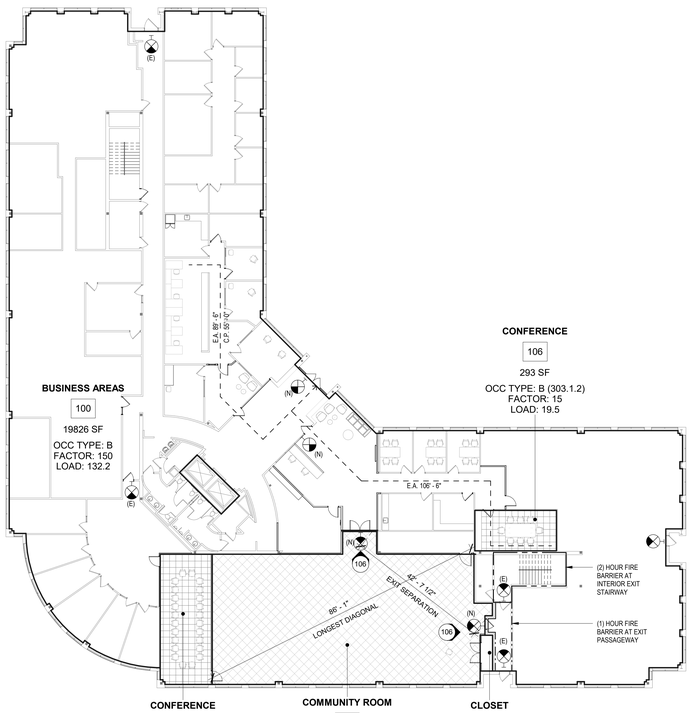
SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

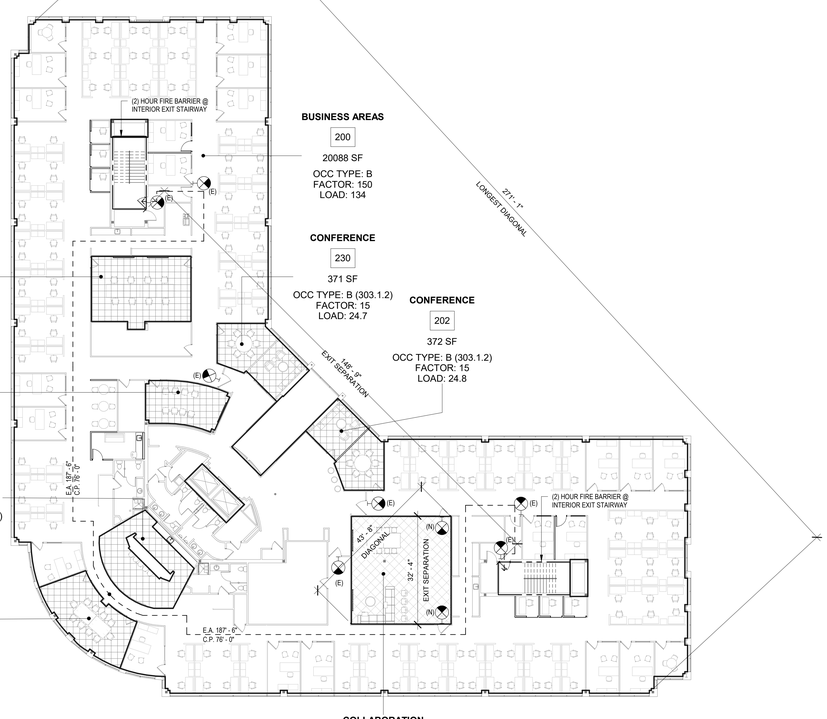
PROJECT: 21019
DATE: 02.17.2022

COVER PAGE
G001

2/18/2022 12:44:11 PM



FLS PLAN - GROUND FLOOR 1
1/16" = 1'-0"



FLS PLAN - SECOND FLOOR 3
1/16" = 1'-0"

TABLE 1004.1.2 OCCUPANT LOAD

NAME	SIZE	OCCUPANCY TYPE	LOAD FACTOR	OCCUPANT LOAD	LEVEL
CONFERENCE	293 SF	B (303.1.2)	15	19.5	FINISHED FLOOR
COMMUNITY ROOM	3160 SF	A-3	15	210.7	FINISHED FLOOR
BUSINESS AREAS	19826 SF	B	150	132.2	FINISHED FLOOR
CLOSET	39 SF	B	300	0.1	FINISHED FLOOR
CONFERENCE	600 SF	B (303.1.2)	30	40	FINISHED FLOOR
FINISHED FLOOR	23918 SF			402.5	
CONFERENCE	372 SF	B (303.1.2)	15	24.8	FINISHED FLOOR 2
COLLABORATION	953 SF	A-3 (ACC)	15	65.3	FINISHED FLOOR 2
BUSINESS AREAS	20088 SF	B	150	134	FINISHED FLOOR 2
TRAINING	588 SF	B (303.1.2)	15	39.2	FINISHED FLOOR 2
CONFERENCE	371 SF	B (303.1.2)	15	24.7	FINISHED FLOOR 2
CONFERENCE	294 SF	B (303.1.2)	15	19.6	FINISHED FLOOR 2
CONFERENCE	419 SF	B (303.1.2)	15	27.9	FINISHED FLOOR 2
BREAK	461 SF	B (303.1.2)	15	30.7	FINISHED FLOOR 2
FINISHED FLOOR 2	23546 SF			366.2	
CONFERENCE	743 SF	B (303.1.2)	15	49.5	FINISHED FLOOR 3
CONFERENCE	147 SF	B (303.1.2)	15	4.9	FINISHED FLOOR 3
COLLABORATION	715 SF	B (303.1.2)	15	47.7	FINISHED FLOOR 3
CONFERENCE	288 SF	B (303.1.2)	15	19.2	FINISHED FLOOR 3
COLLABORATION	335 SF	B (303.1.2)	15	22.3	FINISHED FLOOR 3
CONFERENCE	147 SF	B (303.1.2)	15	9.8	FINISHED FLOOR 3
IT LAB	584 SF	B	50	11.7	FINISHED FLOOR 3
OPEN OFFICE	19983 SF	B	150	133.3	FINISHED FLOOR 3
COLLABORATION	194 SF	B (303.1.2)	15	12.9	FINISHED FLOOR 3
COLLABORATION	420 SF	B (303.1.2)	15	28	FINISHED FLOOR 3
CONFERENCE	423 SF	B (303.1.2)	15	28.2	FINISHED FLOOR 3
FINISHED FLOOR 3	25980 SF			367.5	
	71443 SF			1136.2	

PLUMBING CALCULATIONS (2902.1)

THIS PROJECT PROPOSES NON-SIMULTANEOUS USE BETWEEN THE PRIMARY (B-BUSINESS) OCCUPANCY OF THE DISTRICTS CENTRAL OFFICE DURING REGULAR BUSINESS HOURS AND THE COMMUNITY ROOM (A-ASSEMBLY) USED AFTER HOURS AND IN OFFSETTING TIMES.

RESTROOMS ON THE GROUND FLOOR WILL BE MADE AVAILABLE TO THE ASSEMBLY SPACE DURING OCCUPIED HOURS.

BUSINESS FIXTURE COUNT - (REGULAR BUSINESS HOURS)

TOTAL OCCUPANT LOAD: **925.5 PEOPLE** (462.5 EACH GENDER)

861 PEOPLE (B - BUSINESS)
64 PEOPLE (A - ASSEMBLY)

WATER CLOSETS: **10 REQUIRED FOR MEN // 8 WC + 6 URINALS PROVIDED**
11 REQUIRED FOR WOMEN // 11 PROVIDED

9.6 (B @ 460.5 PER GENDER - 1.25 FOR FIRST 50, 1.50 AFTER)
.26 MEN (A @ 33 PER GENDER - 1.125)
.51 WOMEN (A @ 33 PER GENDER - 1.65)

LAVATORIES: **7 REQUIRED PER GENDER/14 TOTAL PROVIDED**

6.3 (B @ 460.5 PER GENDER - 1.40 FOR FIRST 80, 1.80 AFTER)
0.5 (A @ 33 PER GENDER - 1.200)

DRINKING FOUNTAINS: NOT REQUIRED FOR B-OCCUPANCY, 1 REQUIRED PER FLOOR FOR ASSEMBLY.

NOTE: WATER IS PROVIDED WITHIN EACH BREAK ROOM FOR EMPLOYEES ON EACH LEVEL

ASSEMBLY FIXTURE COUNT - (AFTER WORK HOURS)

TOTAL OCCUPANT LOAD: **212 PEOPLE** (106.0 EACH GENDER)

212 PEOPLE (A-3 - AUDITORIUM; NO FIXED SEATING)

WATER CLOSETS: **1 REQUIRED FOR MEN // 2 WC + 2 URINALS PROVIDED**
2 REQUIRED FOR WOMEN // 3 PROVIDED

0.85 (A-3 @ 106 MEN - 1.125)
1.63 (A-3 @ 106 WOMEN - 1.65)

NOTE: A FAMILY RESTROOM IS NOT REQUIRED PER 1109.2.1 AS THE ASSEMBLY OCCUPANCY REQUIRES LESS THAN (6) WATER CLOSETS

LAVATORIES: **1 REQUIRED PER GENDER/4 TOTAL PROVIDED**

0.53 (A-3 @ 106 PER GENDER - 1.200)

DRINKING FOUNTAINS: **(1) REQUIRED ON FLOOR WITH ASSEMBLY OCCUPANCY // (2) PROVIDED**
PER 2902.5.1

FIRE LIFE SAFETY (BY GENERAL CONTRACTOR)

THE FOLLOWING ITEMS ARE FIRE LIFE SAFETY REQUIREMENTS TO BE COMPLETED BY THE GENERAL CONTRACTOR. PROVIDE THE APPROPRIATE SUBMITTAL TO THE ARCHITECT FOR REVIEW AND COORDINATION PRIOR TO SUBMITTING TO THE AUTHOROITY HAVING JURISDICTION.

CODE REQUIRED SIGANGE

A. PROVIDE REQUIRED CODE REQUIRED SIGNAGE AS PRESCRIBED BY THE OREGON STRUCTURAL SPECIALTY CODE AND THE INTERNATIONAL FIRE CODE. COORDINATE LOCATION WITH ARCHITECT AND AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.

B. THE FOLLOWING ITEMS ARE TYPICALLY PROVIDED BY THE GENERAL CONTRACTOR, BUT MAY NOT EXHAUSTIVE OF ALL UNIQUE PROJECT REQUIREMENTS. COORDINATE EXTENT OF CODE REQUIRED SIGNAGE WITHIN THIS PROJECT WITH ARCHITECT OF RECORD PRIOR TO SUBSTANTIAL COMPLETION.

C. **OREGON SPECIALTY STRUCTURAL CODE - BASED ON THE INTERNATIONAL BUILDING CODE (IBC)**

- OCCUPANT LOAD (1004.3)
- TWO-WAY COMMUNICATION DEVICES (IBC 1007.8.2)
- AREAS OF REFUGE (IBC 1007.9)
- DELAYED EMERGENCY EXIT DOORS (IBC 1008.1.9)
- KEY LOCKS ON EGRESS SIDE OF DOORS (IBC 1008.1.9)
- EXIT SIGNAGE (IBC 1011.1)
- FLOOR IDENTIFICATION (IBC 1022.8)
- ACCESSIBILITY ELEMENTS AND DIRECTIONAL SIGNAGE (IBC 1110)
- ELEVATOR EMERGENCY SIGNS (IBC 3002.3)

D. **OREGON FIRE CODE - BASED ON THE INTERNATIONAL FIRE CODE (IFC)**

- NO SMOKING (IFC 310.3)
- PREMISES IDENTIFICATION (IFC 505.1)
- FIRE PROTECTION EQUIPMENT SIGNS (IFC 509.1)
- ELECTRICAL CONTROL ROOMS (IFC 605.3.1)
- FIRE DOORS (IFC 703.2.1)
- FIRE DEPARTMENT CONNECTIONS (IFC 912.4)

RATED ASSEMBLIES

A. WHERE RATED ASSEMBLIES ARE SHOWN ON THE FLS PLAN, PROVIDE A UL OR GA LISTED RATED ASSEMBLY TO MEET THE FIRE RATING REQUIREMENTS TO THE ARCHITECT FOR REVIEW.

B. PROVIDE A UL OR GA LISTED PERIMETER JOINT ASSEMBLY AND THROUGH PENETRATION FIRE STOP ASSMEMBLY MEETING THE FIRE RATED REQUIREMENT OF THE WALL, FLOOR/CEILING OR ROOF ASSMBLY SHOWN ON THE FLS PLANS.

C. PROVIDE A SUBMITTAL CUTSHEET TO THE ARCHITECT OF EACH SELECTED FIRE RESISTANT ASSEMBLY PRIOR TO INSTALLATION.

EMERGENCY LIGHTING REQUIREMENTS

A. MEANS OF EGRESS, INCLUDING EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE IS SERVED BY THE MEANS OF EGRESS.

B. PROVIDE MINIMUM 1 FOOT-CANDLE OF ILLUMINATION AT ALL MEANS OF EGRESS. THE POWER SUPPLY FOR THE MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE BUILDINGS ELECTRICAL SUPPLY. IN THE EVENT OF A POWER FAILURE, THE EMERGENCY POWER SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT, OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH 2015 IBC SECTION 2702 AND 2015 IBC SECTION 1006.

C. PRIOR TO FINAL INSPECTION, SUBMIT DOCUMENTATION SUBSTANTIATING THE COMPLETION OF TEST FOR THE MEANS OF EGRESS ILLUMINATION LEVEL PER 2015 IBC 1008.2.1, 1008.3 AND EMERGENCY POWER PER 1008.3.5.

DELEGATED DESIGN SUBMITTALS/PERMITS

A. ITEMS LISTED AS A DEFERRED SUBMITTAL OR DESIGN BUILD ITEMS ON SHEET G001 REQUIRE ENGINEERING TO BE PROVIDED BY THE GENERAL CONTRACTOR.

B. PROVIDE A COMPLETE AND ENGINEERED SYSTEM TO MEET THE DESIGN INTENT CONTAINED WITHIN THESE CONTRACT DOCUMENTS. PROVIDE A SUBMITTAL TO THE ARCHITECT FOR REVIEW OF DESIGN INTENT CONFORMANCE ONLY. THIS REVIEW DOES NOT CONSTITUTE A PROFESSIONAL PEER REVIEW OF THE SYSTEMS SUBMITTED.

C. WHERE A LICENSED DESIGN PROFESSIONAL IS REQUIRED BY THE AUTHORITY HAVING JURISDICTION, THE GENERAL CONTRACTOR IS TO SECURE THESE SERVICES AND PROVIDE STAMPED DOCUMENTS TO MEET THE LOCAL REQUIREMENTS FOR A DEFERRED SUBMITTAL OR SEPARATE PERMIT.

D. ADDITIONAL DEFERRED SUBMITTAL OR PERMIT FEES TO BE PAID BY THE GENERAL CONTRACTOR.

ORS 447.241 (25% ADA RULE) COMPLIANCE

EVERY PROJECT FOR RENOVATION, ALTERATION OR MODIFICATION TO AFFECTED BUILDINGS AND RELATED FACILITIES THAT AFFECTS OR COULD AFFECT THE USABILITY OF OR ACCESS TO AN AREA CONTAINING A PRIMARY FUNCTION SHALL BE MADE TO INSURE THAT, TO THE MAXIMUM EXTENT FEASIBLE, THE PATHS OF TRAVEL TO THE ALTERED AREA AND THE RESTROOMS, TELEPHONES AND DRINKING FOUNTAINS SERVING THE ALTERED AREA ARE READILY ACCESSIBLE TO AND USEABLE BY INDIVIDUALS WITH DISABILITIES. UNLESS SUCH ALTERATIONS ARE DISPROPORTIONATE TO THE OVERALL ALTERATIONS IN TERMS OF COST AND SCOPE.

EXISTING NON-COMPLIANT ITEMS WITHIN THE PATH OF TRAVEL TO THE AFFECTED AREA(S) OR ELEMENTS SERVING THE ALTERED AREA PROPOSED TO BE REMEDIATED WITHIN THIS PROJECT SCOPE INCLUDE:

- NEW ACCESSIBLE PARKING SIGANGE & PAVEMENT MARKINGS TO MEET CURRETN REQUIREMENTS AT EXISTING ADA PARKING ACCESS AISLE (ODOT - STANDARDS FOR ACCESSIBLE PARKING - 2018)

FOLLOWING COMPLETION OF THIS PROJECT, NO ADDITIONAL BARRIERS ARE KNOWN WITHIN THE PROJECT AREA SUBJECT TO ORS 447.241.

GENERAL NOTES - BUILDING EXTERIORS

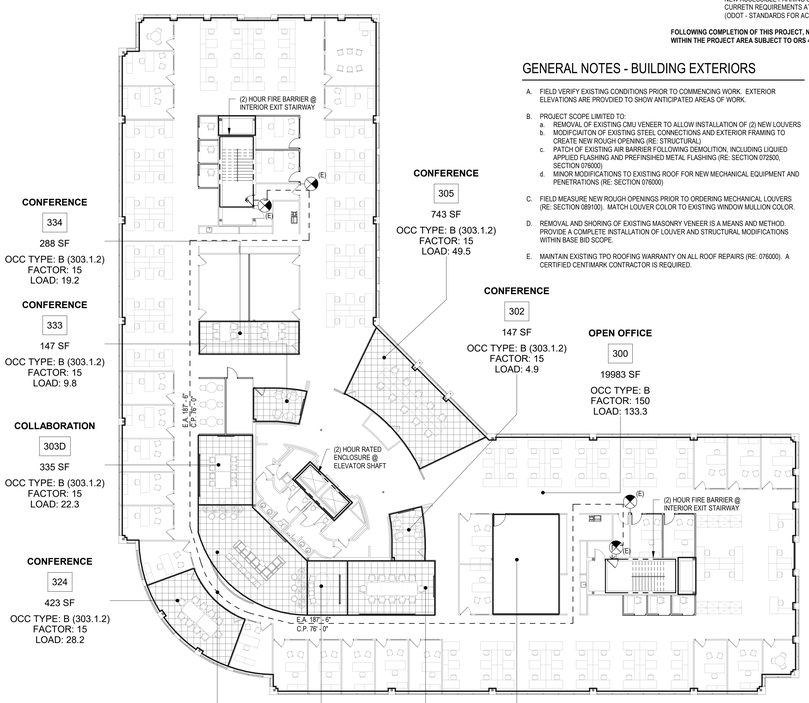
A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. EXTERIOR ELEVATIONS ARE PROVIDED TO SHOW ANTICIPATED AREAS OF WORK.

B. PROJECT SCOPE LIMITED TO:
   a. REMOVAL OF EXISTING CMU VENEER TO ALLOW INSTALLATION OF (2) NEW LOUVERS
   b. MODIFCAITON OF EXISTING STEEL CONNECTIONS AND EXTERIOR FRAMING TO CREATE NEW ROUGH OPENING (RE: STRUCTURAL)
   c. PATCH OF EXISTING AIR BARRIER FOLLOWING DEMOLITION, INCLUDING LIQUIED APPLIED FLASHING AND PREFINISHED METAL FLASHING (RE: SECTION 072500, SECTION 076000)
   d. MINOR MODIFICATIONS TO EXISTING ROOF FOR NEW MECHANICAL EQUIPMENT AND PENETRATIONS (RE: SECTION 076000)

C. FIELD MEASURE NEW ROUGH OPENINGS PRIOR TO ORDERING MECHANICAL LOUVERS (RE: SECTION 089100). MATCH LOUVER COLOR TO EXISTING WINDOW MULLION COLOR.

D. REMOVAL AND SHORING OF EXISTING MASONRY VENEER IS A MEANS AND METHOD. PROVIDE A COMPLETE INSTALLATION OF LOUVER AND STRUCTURAL MODIFICATIONS WITHIN BASE BID SCOPE.

E. MAINTAIN EXISTING TPO ROOFING WARRANTY ON ALL ROOF REPAIRS (RE: 076000). A CERTIFIED CENTIMARK CONTRACTOR IS REQUIRED.



FLS PLAN - THIRD FLOOR 2
1/16" = 1'-0"

CODE SUMMARY

APPLICABLE CODES

2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC)
2019 OREGON MECHANICAL CODE (OMSC)
2021 OREGON PLUMBING SPECIALTY CODE (OPSC)
2021 OREGON ELECTRICAL SPECIALTY CODE (OESC)
2019 OREGON FIRE CODE (OFC)
ICC/ANSI A117.1 - 2009

CITY OF BEAVERTON MUNICIPAL CODE

CONSTRUCTION TYPE & USE (CHAPTERS 3,4 & 5)

BUILDING OCCUPANCY: B (OFFICE), A-3 (ASSEMBLY)

CONSTUCTION TYPE: II-B (SPRINKLERED) - *FORMERLY II-1 HR 1993 OSSC/ 1991 UBC*
STORIES: 3 STORIES ABOVE GRADE

EXISTING FLOOR AREA: 74,824 SF
LEVEL 1: 24,971 SF
LEVEL 2: 24,722 SF
LEVEL 3: 25,081 SF

EXISTING HEIGHT: 39'-6" AFF

SEPARATION: NON-SEPARATED OCCUPANCIES

NOTE: THE BUILDING IS FULLY SURROUNDED BY OPEN SPACE OR PUBLIC RIGHT OF WAY IN ACCORDANCE WITH SECTION 506.3.2. THE MAXIMUM FRONTAGE INCREASE (75%) IS USED.

Aa = [At + (NS x If) x Sa
Aa = 106,875 SF FOR A-3 OCCUPANCY/WORST CASE (508.3.2)

FIRE-RESISTANT RATING REQUIREMENTS (CHAPTER 6)

PRIMARY STRUCTURAL FRAME:	**0 HOURS**
BEARING WALLS:	
EXTERIOR:	**0 HOURS**
INTERIOR:	**0 HOURS**
NON BEARING WALLS AND PARTITIONS:	
EXTERIOR:	**SEE SHELL FLS PLANS**
INTERIOR:	**0 HOUR**
FLOOR CONSTRUCTION:	**0 HOURS**
ROOF CONSTRUCTION:	**0 HOURS**

INTERIOR FINISHES (CHAPTER 8)

ALL INTERIOR AND CEILING FINISH MATERIALS TO BE CLASSIFIED IN ACCORDANCE WITH ASTM E84 OR UL 723 AND MEET THE FOLLOWING SMOKE-DEVELOPED INDEXES AS REQUIRED BY TABLE 803.9 BELOW:

INTERIOR EXIT STAIRWAYS, EXIT RAMPS AND EXIT PASSAGEWAYS:	**CLASS A**
CORRIDORS AND ENCLOSUES FOR EXIT STAIRWAYS AND RAMPS:	**CLASS B**
ROOMS AND ENCLOSED SPACES:	**CLASS C**

MEANS OF EGRESS (CHAPTER 10)

1006.2.1 NUMBER OF EXITS: MORE THAN ONE EXIT IS REQUIRED FROM EACH TENANT SUITE IF THE OVERALL OCCUPANT LOAD IS GREATER THAN 49

1006.2.1 COMMON PATH OF EGRESS TRAVEL: THE MAXIMUM COMMON PATH OF EGRESS TRAVEL FOR OCCUPANCY GROUPS B SHALL NOT BE MORE THAN **100 FEET** WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE IWTH 903.3.1.1

1007.1.1 EXIT DISTANCE: WHERE TWO EXITS ARE REQUIRED, THE SEPARATION DISNACE SHALL NOT BE LESS THAN **1/3RD THE DIAGONAL** WITH AN AUTOMATIC SPRINKLER SYSTEM.

1016.2 EXIT TRAVEL DISTANCE: MAXIMUM TRAVEL DISTANCE FOR OCCUPANCY B, SPRINKLERED: **300'**

1020.1 CORRIDOR FIRE-RESISTANCE RATING: NO FIRE RESISTANT RATING IS REQUIRED FOR OCCUPANCY TYPES B FOR BUILDINGS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH 903.3.1.1

EXISTING BUILDING COMPLIANCE (IEBC)

THE FOLLOWING ITEMS DESCRIBED PRESCRIPTIVE COMPLIANCE PATH REQUIREMENTS FOR THE PROJECT TO MEET CHAPTER 3 AND CHAPTER 5 REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE REFERENCED THROUGH CHAPTER 34 OF THE OREGON SPECIALTY STRUCTURAL CODE.

CHAPTER 3 - PROVISIONS FOR ALL COMPLIANCE METHODS

THE FOLLOWING REQUIPMENTS APPLY TO ALL ALTERATIONS, REPAIRS, ADDDITIONS AND CHANGES OF OCCUPANCY REGARDLESS OF COMPLIANCE METHODS.

A. EXISTING MATERIALS (302.4) - MATERIALS ALREADY IN USE IN THE BUILDING IN COMPLIANCE WITH THEIR TIME OF INSTALLATION SHALL BE PERMITTED TO REMAIN UNLESS DETERMINED BY THE BUILDING OFFICIAL TO BE UNSAFE.

B. NEW & REPLACEMENT MATERIALS (302.5) - MATERIALS ALLOWED UNDER CURRENT CODES FOR NEW CONSTRUCTION SHALL BE USED. IN THE CASE OF REPAIRS OR ALTERNATIONS, LIKE MATERIALS TO EXISTING MAY BE USED IF THEY PROVIDE NO HAZARD TO LIFE, HEALTH OR PROPERTY.

C. ACCESSIBILITY FOR EXISTING BUILDINGS (305) -
   a. EXTENT OF APPLICATION (305.3) - ALTERATIONS SHALL NOT REDUCE OR HAVE THE EFFECT OF REDUCING ACCESSIBILITY OF A FACILITY OR PORTION OF A FACILITY.
   b. ALTERATIONS (305.6) - ALTERATIONS OF PRIMARY FUNCTIONS/20% RULE (305.7) - WHERE AN ALTERNATION AFFECTS AN AREA CONTAINING A PRIMARY FUNCTION, THE ROUTE TO THE PRIMARY FUNCTION SHALL BE ACCESSIBLE. THE ACCESSIBLE ROUTE TO THE PRIMARY AREA SHALL INCLUDE TOILET FACILITIES AND DRINKING FOUNTAINS SERVING THIS AREA. THE MAXIMUM COSTS OF PROVIDING THE ACCESSIBLE ROUTE SHALL NOT EXCEED 20% OF THE COSTS OF THE ALTERATIONS AFFECTING THE PRIMARY AREA.

CHAPTER 5 - PRESCRIPTIVE COMPLIANCE

THIS PROJECT PROPOSES USING THE PRESCRIPTIVE COMPLIANCE METHOD OUTLINED IN CHAPTER 5 OF THE 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC) AS MODIFIED BY CHAPTER 34 OF THE OSSC.

A. THIS PROJECT SHALL MEET THE REQUIREMENTS OF CHAPTER 5 (PRESCRIPTIVE COMPLIANCE METHOD) OF THE INTERNATIONAL EXISTING BUILDING CODE. NO PORTION OF THIS PROJECT SHALL ALTER THE EXISTING BUILDING TO BECOME LESS SAFE THAN ITS EXISTING CONDITION.

B. ALTERNATIONS (503): ALTERATIONS TO EXISTING BUILDINGS SHALL COMPLY WITH CURRENT BUILDING CODE FOR NEW CONSTRUCTION.
   a. STRUCTURAL ELEMENTS - GRAVITY LOAD - LOADS ON EXISTING STRUCTURAL ELEMENTS CARRYING GRAVITY LOADS SHALL NOT BE INCREASED MORE THAN 5% OR WILL NEED TO BE STRENGTHENED.
   b. STRUCTURAL ELEMENTS - LATERAL LOADS - ADDITIONAL LOADS LESS THAN 10% ON THE DEMAND-CAPACITY RATIO OF EXISTING ELEMENTS MAY BE IGNORED.

C. WINDOWS AND EMERGENCY ESCAPE OPENINGS (505):
   a. REPLACEMENT WINDOW OPENING CONTROL DEVICE (505.2) - WITHIN R-2 OCCUPANCIES, WINDOW OPENING CONTROL DEVICES COMPLYING ASTM F2090 SHALL BE INSTALLED WHERE AN EXISTING WINDOW IS REPLACED.
   a. EMERGENCY ESCAPE AND RESCUE OPENINGS (505.4) - EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS OR TOOLS.

D. CHANGE OF OCCUPANCY (506):
   a. NO CHANGES OF OCCUPANCY SHALL BE MADE UNLESS THAT BUILDING IS MADE TO COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE FOR THAT USE OR OCCUPANCY. CHANGES OF OCCUPANCY SHALL NOT MAKE THE BUILDING LESS COMPLIANT WITH CODE REQUIREMENTS THAN IT WAS PRIOR TO THE CHANGE.

LEGEND - FLS PLANS

NOTE: PROVIDE CONTINUOUS UL LISTED ASSEMBLIES FOR ALL CONSTRUCTION JOINTS AND THROUGH WALL PENETRATIONS MATCHING THE FIRE RESISTANT RATING OF ALL WALLS INDICATED BELOW:

- 1/2 HOUR FIRE PARTITION - 20 MINUTE DOOR
- 1 HOUR FIRE PARTITION - 45 MINUTE DOOR
- 1 HOUR FIRE BARRIER - 60 MINUTE DOOR
- 2 HOUR FIRE BARRIER - 90 MINUTE DOOR
- 3 HOUR FIRE BARRIER - 20 MINUTE DOOR
- 44 — EGRESS PATH OF TRAVEL WITH MINIMUM CLEARANCE WIDTH INDICATED. *PROVIDE MINIMUM ILLUMINATION FOR EXITING.*
- C.P. X" — COMMON PATH OF EGRESS TRAVEL (OSSC 1014.3)
- E.A. X" — EXIT ACCESS DISTANCE (OSSC 1016)
- 19 — OCCUPANT LOAD AT OPENING
- 10 — CUMMALTIVE OCCUPANT LOAD AT OPENING
- LIGHTED EXIT SIGN - CEILING MOUNTED *SHADING INDICATES LIGHTED FACE(S), DIRECTION ARROW CORRESPONDS TO DIRECTION ARROW ON SIGN*
- LIGHTED EXIT SIGN - WALL MOUNTED
- F.E.C — FIRE EXTINGUISHER CABINET - COORDINATE LOCATION WITH FIRE MARSHAL

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REVISIONS:

BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

FIRE, LIFE & SAFETY PLAN

G101

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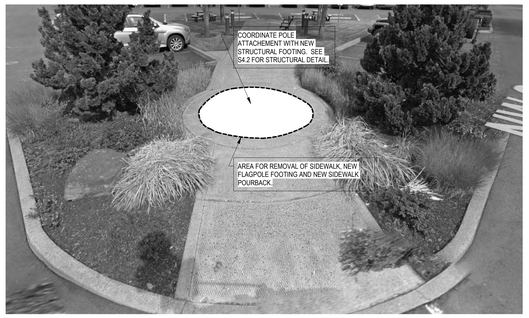
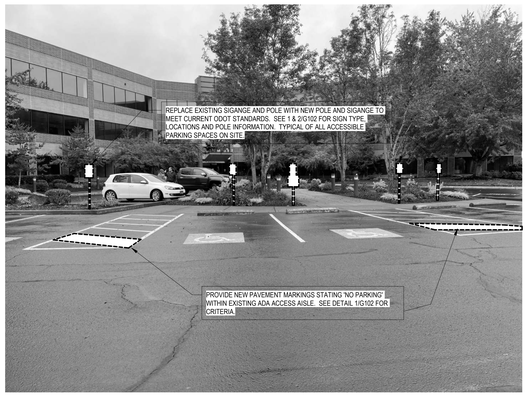
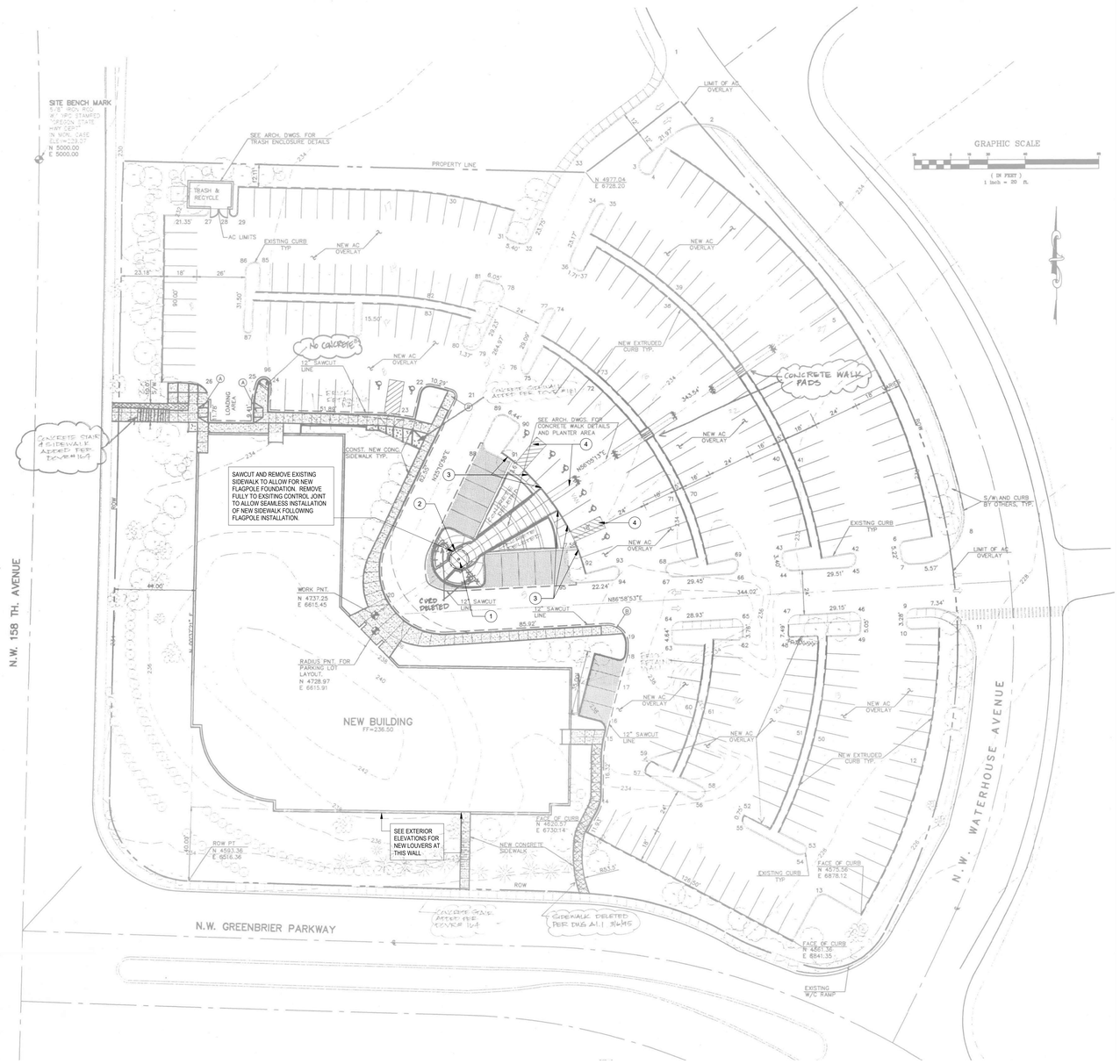


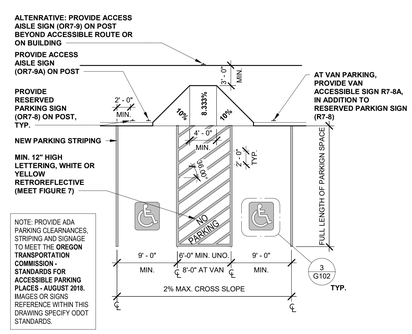
EXISTING CONDITIONS - FLAG POLE (4)
1 1/2" = 1'-0"



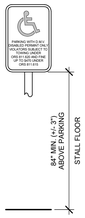
EXISTING CONDITIONS - ACCESSIBLE PARKING (5)
1 1/2" = 1'-0"



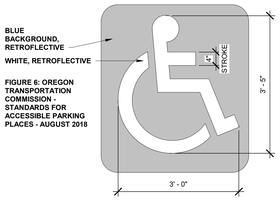
SITE PLAN (1)
1/8" = 1'-0"



ACCESSIBLE PARKING PLAN (1)
1/8" = 1'-0"



ACCESSIBLE SIGNAGE (2)
3/4" = 1'-0"



ACCESSIBLE SIGNAGE STENCILING (3)
3/4" = 1'-0"

GENERAL NOTES - SITE PLAN

A. SITE PLAN IS PROVIDED FROM SHELL PERMIT SET, FIELD VERIFY AREAS OF WORK AND REPORT DISCRPENCIES TO ARCHITECT.

B. PROJECT SCOPE LIMITED TO:
   a. PARKING STRIPING AT ACCESSIBLE PARKING AND NEW ACCESSIBLE PARKING SIGNAGE
   b. SAW CUTTING AND REMOVAL OF (E) SIDEWALK TO INSTALL NEW FLAGPOLE FOOTING AND FLAGPOLE.
   c. REPLACEMENT OF SIDEWALK WITHIN DEMOLISHED AREAS OF WORK.

C. GENERAL CONTRACTOR TO COORDINATE FLAGPOLE ATTACHEMENT WITH STRUCTURAL FOOTING. PROPOSE ATTACHEMENT WITHIN SUBMITTAL FOR SELECTED FLAGPOLE.

D. MATCH AGGREGATE, TEXTURE AND FINISH OF EXISTING SIDEWALK WITH NEW SIDEWALK POURBACK. HAND TAMP OR MECANICALLY COMPRESS EXISTING BASE FOLLOWING DEMOLITION.

E. REMOVAL OF SOIL OR OTHER MATERIALS TO INSTALL NEW FOOTING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

F. SEE SECTION 013553 - SECURITY PROCEDURES AND 015000 - TEMPORARY FACILITIES AND CONTROLS FOR ADDITIONAL SITE REQUIREMENTS.

ORS 447.241 (25% ADA RULE) COMPLIANCE

EVERY PROJECT FOR RENOVATION, ALTERATION OR MODIFICATION TO AFFECTED BUILDINGS AND RELATED FACILITIES THAT AFFECTS OR COULD AFFECT THE USABILITY OF OR ACCESS TO AN AREA CONTAINING A PRIMARY FUNCTION SHALL BE MADE TO INSURE THAT, TO THE MAXIMUM EXTENT FEASIBLE, THE PATHS OF TRAVEL TO THE ALTERED AREA AND THE RESTROOMS, TELEPHONES AND DRINKING FOUNTAINS SERVING THE ALTERED AREA ARE READILY ACCESSIBLE TO AND USEABLE BY INDIVIDUALS WITH DISABILITIES, UNLESS SUCH ALTERATIONS ARE DISPROPORTIONATE TO THE OVERALL ALTERATIONS IN TERMS OF COST AND SCOPE.

EXISTING NON-COMPLIANT ITEMS WITHIN THE PATH OF TRAVEL TO THE AFFECTED AREA(S) OR ELEMENTS SERVING THE ALTERED AREA PROPOSED TO BE REMEDIATED WITHIN THIS PROJECT SCOPE INCLUDE:

- NEW ACCESSIBLE PARKING SIGANGE & PAVEMENT MARKINGS TO MEET CURRETN REQUIREMENTS AT EXISTING ADA PARKING ACCESS AISLE (ODOT - STANDARDS FOR ACCESSIBLE PARKING - 2018)

FOLLOWING COMPLETION OF THIS PROJECT, NO ADDITIONAL BARRIERS ARE KNOWN WITHIN THE PROJECT AREA SUBJECT TO ORS 447.241.

KEYED NOTES - SITE PLAN

1	PROVIDE NEW 30' FLAGPOLE WITHIN CENTER OF EXISTING CIRCLE. RE: STRUCTURAL FOR NEW FOOTING DETAIL.
2	REPLACE EXISTING SIDEWALK IN PLACE FOLLOWING INSTALLATION OF NEW FLAGPOLE. MATCH EXSITING CONCRETE TEXTURE, COLOR AND FINISH. PROVIDE SELF LEVELING JOINT SEALANT AT GAP TO EXISTING SIDEWALK.
3	REPLACE EXISTING PARKING SIGNAGE WITH NEW POLE AND SIGN. SEE DIAGRAMS ON THIS PAGE FOR HEIGHT, MOUTNING LOCATIONS AND SIGNAGE TYPES.
4	PROVIDE ADDITIONAL TRAFFIC COATING WITHIN ADA PARKING ACCESS AISLE STATING "NO PARKING". SEE DIAGRAM 1 ON THIS PAGE FOR INFORMATION.

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SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

SITE PLAN
G102

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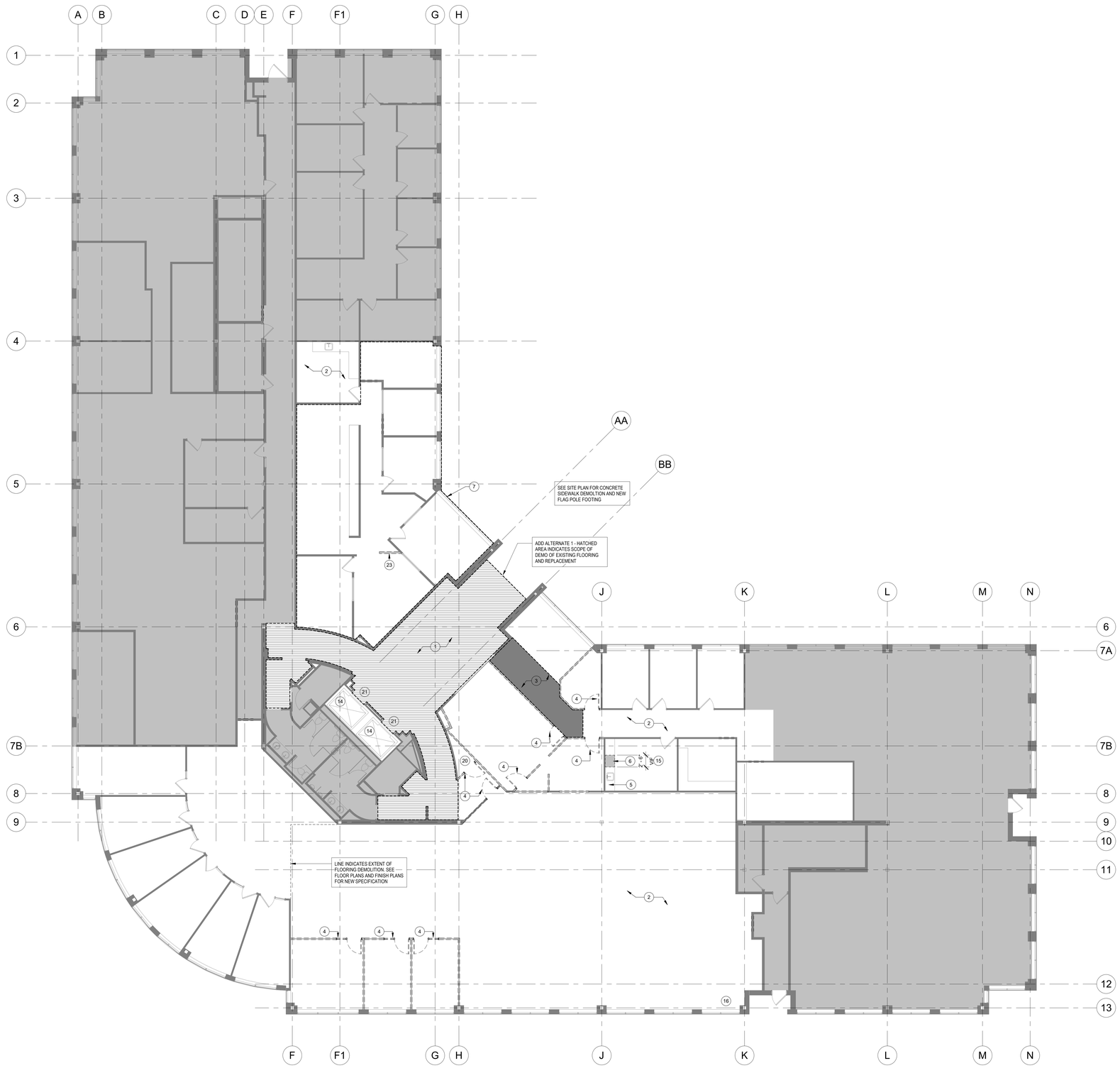

DEMOLITION PLAN - GROUND FLOOR 1

1/8" = 1'-0"

GENERAL NOTES - DEMOLITION PLANS

GENERAL DEMOLTION SCOPE:
EXISTING CARPET AND BASE TO BE REMOVED IN AREAS THAT ARE IN SCOPE. ANY ADDITIONAL DEMOLITION WORK IS NOTATED ON PLANS.

A. REFER TO SPECIFICATIONS FOR A COMPLETE LIST OF GENERAL NOTES.

B. DEMOLITION PLANS ARE FOR GENERAL REMOVAL OF PORTIONS OF THE EXISTING STRUCTURE, INCLUDING BUT NOT LIMITED TO, FINISHES, OPENINGS, FIXTURES AND STRUCTURALLY LOAD BEARING WALLS.

C. VERIFY EXISTING CONDITIONS AND DIMENSIONS FOLLOWING THE REMOVAL OF FINISHES. CONFIRM DIMENSIONS OF ASSUMED GIRDLINES AND NOTIFY DESIGNER OF ANY DISCREPANCIES.

D. PROTECT ALL ADJACENT OR ADJOINING AREAS DURING DEMOLITION AND FROM DUST AND TRASH INTRUSTION.

E. WHERE DESIGNATED, PRESERVE DEMOLISHED ITEMS IN GOOD CONDITION FOR FUTURE INSTALLATION IN A LATER PHASE OF THIS PROJECT.

F. ADDITIONAL REQUIREMENTS MAY EXIST FOR THE HANDLING AND PROPER DISPOSAL OF HAZARDOUS MATERIAL. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FOLLOW ALL RULES AND REGULATIONS, INCLUDING THE TESTING FOR, HAZARDOUS MATERIALS.

G. DEMOLITION SCOPE TO ALLOW THE INSTALLATION OF ITEMS SUCH AS ELECTRICAL AND PLUMBING SYSTEMS TO BE COORDIANTED BY MEP ENGINEER. EXTENTS OF DEMOLITION SCOPE IS DIAGRAMIC ONLY.

H. THIS DRAWING MAY NOT SHOW ALL DEMOLITION SCOPE REQUIRED TO INSTALL ALL NEW WORK. GENERAL CONTRACTOR IS TO COORDIANTE DEMOLITION SCOPE WITH ALL NEW WORK, INCLUDING THOSE TRADES UNDER DIRECT CONTRACT WITH THE OWNER.

I. WHERE DEMOLISHING OR REPLACING SLAB ON GRADE CONDITIONS, REPLACE OR REPAIR EXISTING VAPOR BARRIER TO CREATE A CONTINUOUS MEMBRANE LAYER. TIE INTO EXISTING VAPOR BARRIER AND TAPE.

LEGEND - DEMOLITION PLANS

EXISTING ITEM TO BE REMOVED OR DEMOLISHED.

EXISTING WALL TO BE REMOVED OR DEMOLISHED.

EXISTING WALL TO REMAIN.

KEYED NOTES - DEMOLITION

1	REMOVE EXISTING STONE AND CARPET FLOORING THROUGHOUT THE LOBBY. DASHED LINE INDICATIONS THE EXTENT OF THE DEMOLITION SCOPE. PREPARE SUBFLOOR TO RECEIVE NEW FLOOR FINISH PER FINISH PLANS. SEE FINISH PLAN FOR THE EXTENT OF NEW WORK. PATCH AND REPAIR WALLS AS NECESSARY TO RECEIVE NEW WALL BASE.
2	REMOVE EXISTING FLOORING AND BASE THROUGHOUT THE ENTIRE AREA. PREPARE SUBFLOOR TO RECEIVE NEW FLOOR FINISH PER FINISH PLANS. COORDINATE EXTENTS OF NEW WORK WITH FINISH PLANS. PATCH AND REPAIR WALLS AS NECESSARY TO RECEIVE NEW WALL BASE.
3	REMOVE EXISTING STONE FLOORING IN THIS AREA AS PART OF BASE BID, DASHED LINE INDICATES THE EXTENT OF THE STONE FLOORING TO BE DEMOLISHED. PREPARE SUBFLOOR TO RECEIVE NEW FLOORING FINISH PER FINISH PLANS. PATCH AND REPAIR WALL AS NECESSARY TO RECEIVE NEW WALL BASE.
4	REMOVE AND SALAVAGE EXISTING DOORS, DOOR FRAMES, AND HARDWARE. REUSE EXISTNG DOORS WHERE APPLICABLE. SALAVAGED DOORS TO BE REFINISHED PER DOOR SCHEDULE. COORDINATE ANY REMAINING ATTIC STOCK WITH OWNER.
5	REMOVE EXISTING COUNTERTOP AND PREPARE FOR NEW COUNTERTOP PER FLOOR PLAN.
6	HATCHED AREA INDICATES EXISTING BASE CABINET TO BE REMOVED. SEE FLOOR PLAN FOR CLEARANCE FOR NEW GREASE INTERCEPTOR AT THIS LOCATION.
7	EXISTING FLOORING AND BASE TO REMAIN IN THIS AREA.
8	REMOVE EXISTING FLOORING AND WALL BASE THROUGHOUT THE ENTIRE FLOOR. PREPARE SUBFLOOR AND WALLS TO RECEIVE NEW FLOORING FINISH AND BASE PER FINISH PLANS. COORDINATE EXTENTS OF NEW WORK WITH FINISH FLOOR PLANS.
9	EXISITING ELECTRICAL DEVICES TO REMAIN AT THIS LOCATION AND TO BE INTEGRATED INTO GRAPHICS BAND. IF ANY RELOCATION OF ELECTRICAL CONTROLS IS NECESSARY COORDINATE WITH KCL DRAWINGS FOR EXISTING LOCATIONS.
10	REMOVE EXISTING WALLCOVERING IN THIS ROOM. REPAIR WALL SURFACE TO RECEIVE NEW LEVEL 4 WALL FINISH PER FINISH FLOOR PLAN.
11	REMOVE AND SALVAGE EXISTING LOCKERS. PATCH AND REPAIR EXISTING FLOORING TO MATCH ADJACENT FLOOR FINISH IF NEEDED.
12	REMOVE EXISTING CASEWORK.
13	REMOVE EXISTING FLOORING AND BASE IN THIS AREA AND PREP TO REPLACE WITH NEW CARPET AND BASE. PATCH AND REPAIR EXISTING WALLS AS NECESSARY. SEE FINISH PLANS AND FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
14	REMOVE EXISTING CARPET AT ELEVATOR CABS. PREPARE SUBFLOOR TO RECEIVE NEW CARPET PER FINISH SCHEDULE.
15	COORDINATE WITH PLUMBING SCOPE TO ACCOMODATE NEW SAWCUT FOR NEW CONCRETE TRENCHES AND DRAINLINES.
16	DEMOLISH EXISTING PORTION OF BUILDING EXTERIOR. COORDINATE FINAL LOCATION AND SIZE WITH MECHANICAL DRAWINGS. SEE ARCHITECTURAL ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
17	REMOVE EXISTING SOLID WOOD CAP AND PREP FOR REPLACEMENT. SEE FINISH SCHEDULE FOR SPECIFICATION.
18	REMOVE EXISTING SPOT LIGHTS AT FEATURE WALL. PATCH AND REPAIR CEILING TO MATCH ADJACENT SURFACE.
19	REMOVE EXISTING CIRCULAR SOFFIT ABOVE COLUMN TO CREATE AN EVEN CEILING PLANE. PATCH AND REPAIR CEILING AS NECESSARY TO MATCH ADJACENT SURFACE.
20	REMOVE EXISTING SOFFITS IN THIS STORAGE AREA. PROVIDE AREA WITH NEW CEILING GRID PER RCPS AND LIGHTING PER MEP DRAWINGS.
21	DEMOLISH EXISTING ELEVATOR THRESHOLD AS NEEDED TO PREPARE FOR NEW THRESHOLD. SEE FLOORING TRANSITION DETAILS FOR ADDITIONAL INFORMATION.
22	EXISITING ELECTRICAL DEVICES TO REMAIN AT THIS LOCATION AND TO BE INTEGRATED INTO GRAPHICS BAND. IF ANY RELOCATION OF ELECTRICAL CONTROLS IS NECESSARY COORDINATE WITH KCL DRAWINGS FOR EXISTING LOCATIONS.
23	PATCH AND REPAIR FLOORING TO MATCH EXISTING.

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SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

DEMOLITION PLAN - GROUND FLOOR

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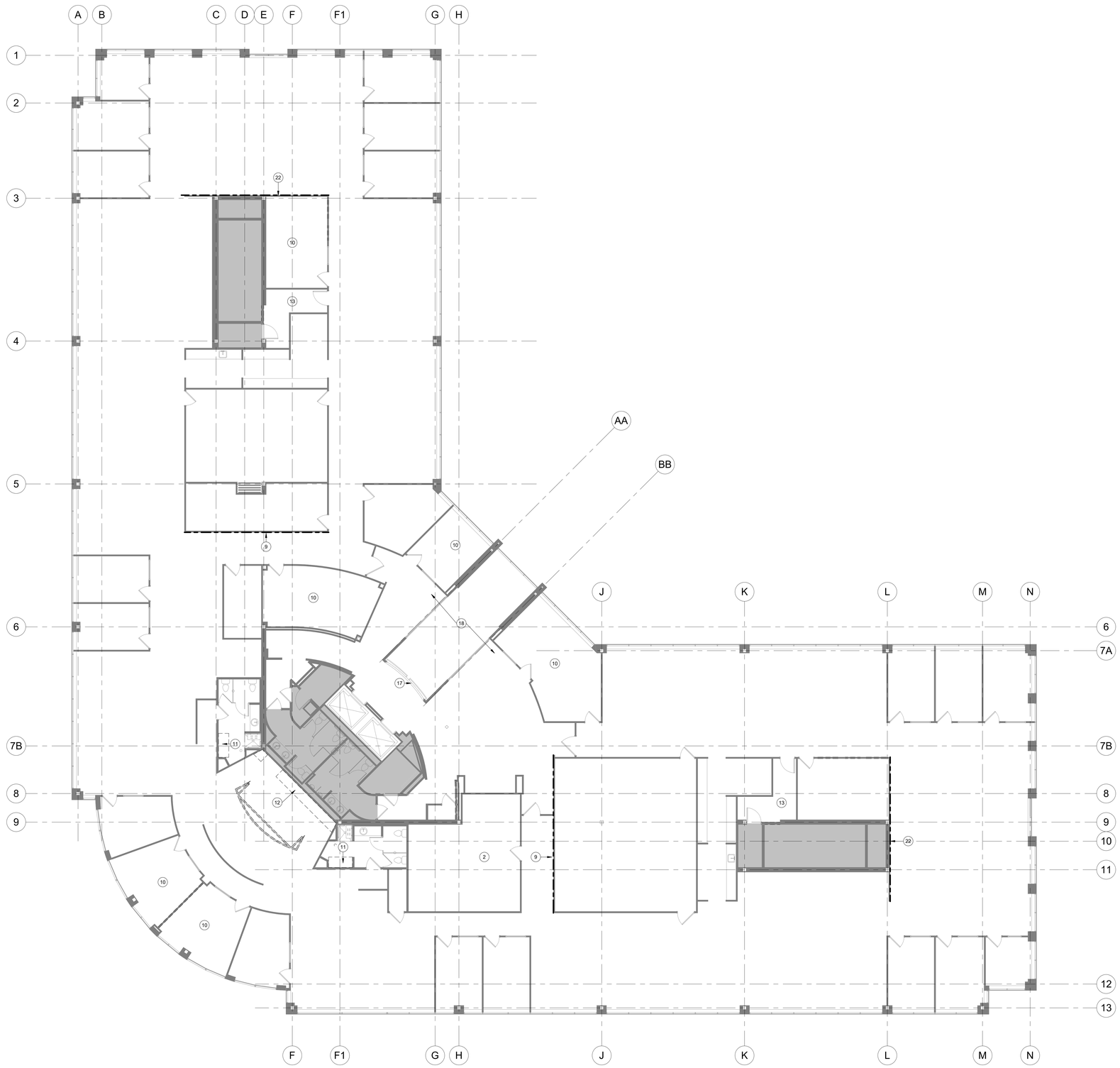

DEMOLITION PLAN - LEVEL 2 (1)
1/8" = 1'-0"

GENERAL NOTES - DEMOLITION PLANS

GENERAL DEMOLTION SCOPE:
EXISTING CARPET AND BASE TO BE REMOVED IN AREAS THAT ARE IN SCOPE. ANY ADDITIONAL DEMOLITION WORK IS NOTATED ON PLANS.

A. REFER TO SPECIFICATIONS FOR A COMPLETE LIST OF GENERAL NOTES.

B. DEMOLITION PLANS ARE FOR GENERAL REMOVAL OF PORTIONS OF THE EXISTING STRUCTURE, INCLUDING BUT NOT LIMITED TO, FINISHES, OPENINGS, FIXTURES AND STRUCTURALLY LOAD BEARING WALLS.

C. VERIFY EXISTING CONDITIONS AND DIMENSIONS FOLLOWING THE REMOVAL OF FINISHES. CONFIRM DIMENSIONS OF ASSUMED GIRDLINES AND NOTIFY DESIGNER OF ANY DISCREPANCIES.

D. PROTECT ALL ADJACENT OR ADJOINING AREAS DURING DEMOLITION AND FROM DUST AND TRASH INTRUSTION.

E. WHERE DESIGNATED, PRESERVE DEMOLISHED ITEMS IN GOOD CONDITION FOR FUTURE INSTALLATION IN A LATER PHASE OF THIS PROJECT.

F. ADDITIONAL REQUIREMENTS MAY EXIST FOR THE HANDLING AND PROPER DISPOSAL OF HAZARDOUS MATERIAL. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FOLLOW ALL RULES AND REGULATIONS, INCLUDING THE TESTING FOR, HAZARDOUS MATERIALS.

G. DEMOLITION SCOPE TO ALLOW THE INSTALLATION OF ITEMS SUCH AS ELECTRICAL AND PLUMBING SYSTEMS TO BE COORDIANTED BY MEP ENGINEER. EXTENTS OF DEMOLITION SCOPE IS DIAGRAMIC ONLY.

H. THIS DRAWING MAY NOT SHOW ALL DEMOLITION SCOPE REQUIRED TO INSTALL ALL NEW WORK. GENERAL CONTRACTOR IS TO COORDIANTE DEMOLITION SCOPE WITH ALL NEW WORK, INCLUDING THOSE TRADES UNDER DIRECT CONTRACT WITH THE OWNER.

I. WHERE DEMOLISHING OR REPLACING SLAB ON GRADE CONDITIONS, REPLACE OR REPAIR EXISTING VAPOR BARRIER TO CREATE A CONTINUOUS MEMBRANE LAYER. TIE INTO EXISTING VAPOR BARRIER AND TAPE.

LEGEND - DEMOLITION PLANS

EXISTING ITEM TO BE REMOVED OR DEMOLISHED.

EXISTING WALL TO BE REMOVED OR DEMOLISHED.

EXISTING WALL TO REMAIN.

KEYED NOTES - DEMOLITION

1	REMOVE EXISTING STONE AND CARPET FLOORING THROUGHOUT THE LOBBY. DASHED LINE INDICATIONS THE EXTENT OF THE DEMOLITION SCOPE. PREPARE SUBFLOOR TO RECEIVE NEW FLOOR FINISH PER FINISH PLANS. SEE FINISH PLAN FOR THE EXTENT OF NEW WORK. PATCH AND REPAIR WALLS AS NECESSARY TO RECEIVE NEW WALL BASE.
2	REMOVE EXISTING FLOORING AND BASE THROUGHOUT THE ENTIRE AREA. PREPARE SUBFLOOR TO RECEIVE NEW FLOOR FINISH PER FINISH PLANS. COORDINATE EXTENTS OF NEW WORK WITH FINISH PLANS. PATCH AND REPAIR WALLS AS NECESSARY TO RECEIVE NEW WALL BASE.
3	REMOVE EXISTING STONE FLOORING IN THIS AREA AS PART OF BASE BID, DASHED LINE INDICATES THE EXTENT OF THE STONE FLOORING TO BE DEMOLISHED. PREPARE SUBFLOOR TO RECEIVE NEW FLOORING FINISH PER FINISH PLANS. PATCH AND REPAIR WALL AS NECESSARY TO RECEIVE NEW WALL BASE.
4	REMOVE AND SALAVAGE EXISTING DOORS, DOOR FRAMES, AND HARDWARE. REUSE EXISTING DOORS WHERE APPLICABLE. SALAVAGED DOORS TO BE REFINISHED PER DOOR SCHEDULE. COORDINATE ANY REMAINING ATTIC STOCK WITH OWNER.
5	REMOVE EXISTING COUNTERTOP AND PREPARE FOR NEW COUNTERTOP PER FLOOR PLAN.
6	HATCHED AREA INDICATES EXISTING BASE CABINET TO BE REMOVED. SEE FLOOR PLAN FOR CLEARANCE FOR NEW GREASE INTERCEPTOR AT THIS LOCATION.
7	EXISTING FLOORING AND BASE TO REMAIN IN THIS AREA.
8	REMOVE EXISTING FLOORING AND WALL BASE THROUGHOUT THE ENTIRE FLOOR. PREPARE SUBFLOOR AND WALLS TO RECEIVE NEW FLOORING FINISH AND BASE PER FINISH PLANS. COORDINATE EXTENTS OF NEW WORK WITH FINISH FLOOR PLANS.
9	EXISITING ELECTRICAL DEVICES TO REMAIN AT THIS LOCATION AND TO BE INTEGRATED INTO GRAPHICS BAND. IF ANY RELOCATION OF ELECTRICAL CONTROLS IS NECESSARY COORDINATE WITH KCL DRAWINGS FOR EXISTING LOCATIONS.
10	REMOVE EXISTING WALLCOVERING IN THIS ROOM. REPAIR WALL SURFACE TO RECEIVE NEW LEVEL 4 WALL FINISH PER FINISH FLOOR PLAN.
11	REMOVE AND SALVAGE EXISTING LOCKERS. PATCH AND REPAIR EXISTING FLOORING TO MATCH ADJACENT FLOOR FINISH IF NEEDED.
12	REMOVE EXISTING CASEWORK.
13	REMOVE EXISTING FLOORING AND BASE IN THIS AREA AND PREP TO REPLACE WITH NEW CARPET AND BASE. PATCH AND REPAIR EXISTING WALLS AS NECESSARY. SEE FINISH PLANS AND FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
14	REMOVE EXISTING CARPET AT ELEVATOR CABS. PREPARE SUBFLOOR TO RECEIVE NEW CARPET PER FINISH SCHEDULE.
15	COORDINATE WITH PLUMBING SCOPE TO ACCOMODATE NEW SAWCUT FOR NEW CONCRETE TRENCHES AND DRAINLINES.
16	DEMOLISH EXISTING PORTION OF BUILDING EXTERIOR. COORDINATE FINAL LOCATION AND SIZE WITH MECHANICAL DRAWINGS. SEE ARCHITECTURAL ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
17	REMOVE EXISTING SOLID WOOD CAP AND PREP FOR REPLACEMENT. SEE FINISH SCHEDULE FOR SPECIFICATION.
18	REMOVE EXISTING SPOT LIGHTS AT FEATURE WALL. PATCH AND REPAIR CEILING TO MATCH ADJACENT SURFACE.
19	REMOVE EXISTING CIRCULAR SOFFIT ABOVE COLUMN TO CREATE AN EVEN CEILING PLANE. PATCH AND REPAIR CEILING AS NECESSARY TO MATCH ADJACENT SURFACE.
20	REMOVE EXISTING SOFFITS IN THIS STORAGE AREA. PRA. PROVIDE AREA WITH NEW CEILING GRID PER RCPS AND LIGHTING PER MEP DRAWINGS.
21	DEMOLISH EXISTING ELEVATOR THRESHOLD AS NEEDED TO PREPARE FOR NEW THRESHOLD. SEE FLOORING TRANSITION DETAILS FOR ADDITIONAL INFORMATION.
22	EXISITING ELECTRICAL DEVICES TO REMAIN AT THIS LOCATION AND TO BE INTEGRATED INTO GRAPHICS BAND. IF ANY RELOCATION OF ELECTRICAL CONTROLS IS NECESSARY COORDINATE WITH KCL DRAWINGS FOR EXISTING LOCATIONS.
23	PATCH AND REPAIR FLOORING TO MATCH EXISTING.

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REGISTERED ARCHITECT
MICHAEL BARNETT
OR
No. 6889
STATE OF OREGON

REVISIONS:

BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

DEMOLITION PLAN - SECOND FLOOR

AD102

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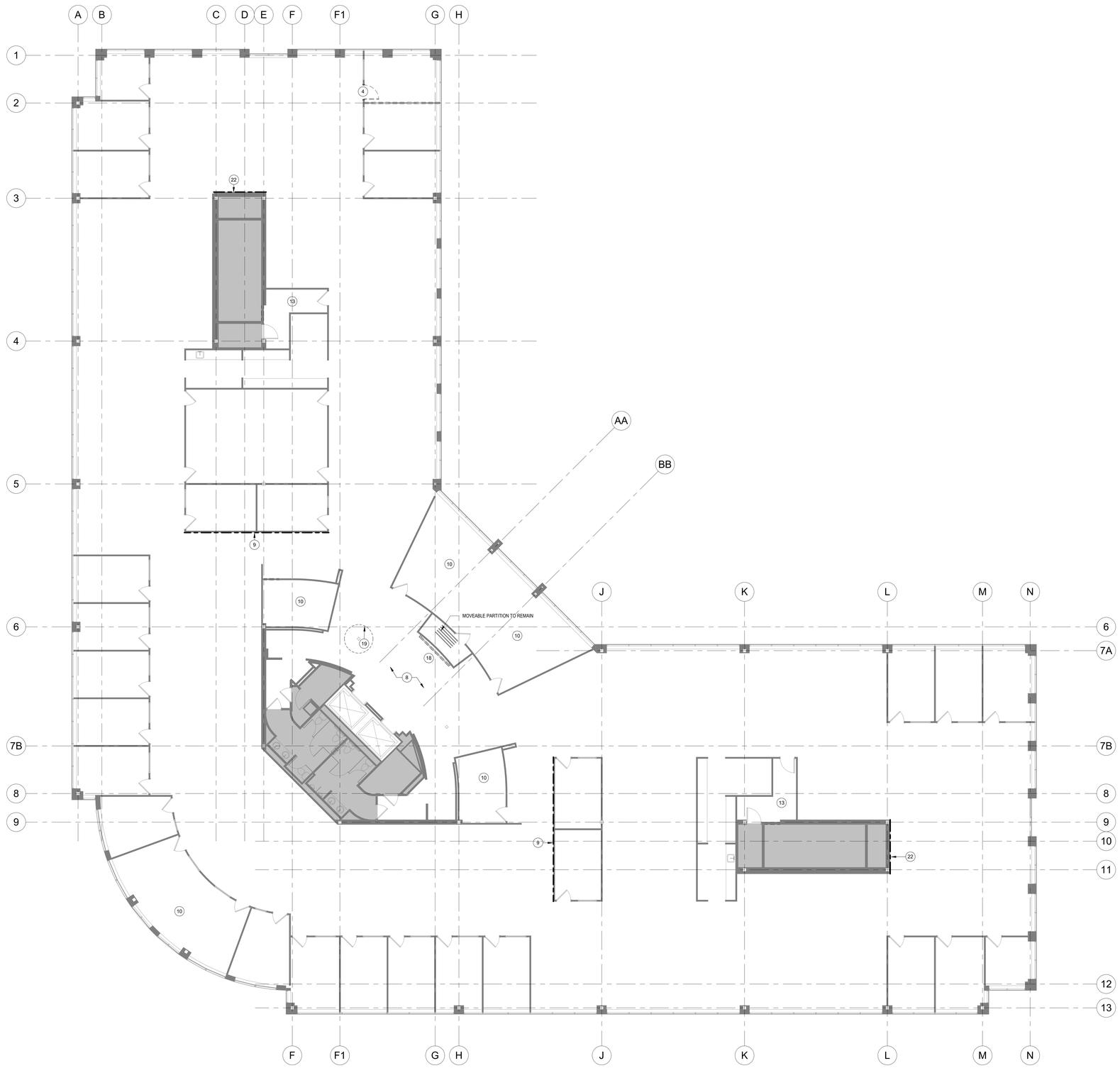

DEMOLITION PLAN - LEVEL 3 (1)
1/8" = 1'-0"

GENERAL NOTES - DEMOLITION PLANS

GENERAL DEMOLTION SCOPE:
EXISTING CARPET AND BASE TO BE REMOVED IN AREAS THAT ARE IN SCOPE. ANY ADDITIONAL DEMOLITION WORK IS NOTATED ON PLANS.

A. REFER TO SPECIFICATIONS FOR A COMPLETE LIST OF GENERAL NOTES.

B. DEMOLITION PLANS ARE FOR GENERAL REMOVAL OF PORTIONS OF THE EXISTING STRUCTURE, INCLUDING BUT NOT LIMITED TO, FINISHES, OPENINGS, FIXTURES AND STRUCTURALLY LOAD BEARING WALLS.

C. VERIFY EXISTING CONDITIONS AND DIMENSIONS FOLLOWING THE REMOVAL OF FINISHES. CONFIRM DIMENSIONS OF ASSUMED GIRDLINES AND NOTIFY DESIGNER OF ANY DISCREPANCIES.

D. PROTECT ALL ADJACENT OR ADJOINING AREAS DURING DEMOLITION AND FROM DUST AND TRASH INTRUSTION.

E. WHERE DESIGNATED, PRESERVE DEMOLISHED ITEMS IN GOOD CONDITION FOR FUTURE INSTALLATION IN A LATER PHASE OF THIS PROJECT.

F. ADDITIONAL REQUIREMENTS MAY EXIST FOR THE HANDLING AND PROPER DISPOSAL OF HAZARDOUS MATERIAL. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FOLLOW ALL RULES AND REGULATIONS, INCLUDING THE TESTING FOR, HAZARDOUS MATERIALS.

G. DEMOLITION SCOPE TO ALLOW THE INSTALLATION OF ITEMS SUCH AS ELECTRICAL AND PLUMBING SYSTEMS TO BE COORDIANTED BY MEP ENGINEER. EXTENTS OF DEMOLITION SCOPE IS DIAGRAMIC ONLY.

H. THIS DRAWING MAY NOT SHOW ALL DEMOLITION SCOPE REQUIRED TO INSTALL ALL NEW WORK. GENERAL CONTRACTOR IS TO COORDIANTE DEMOLITION SCOPE WITH ALL NEW WORK, INCLUDING THOSE TRADES UNDER DIRECT CONTRACT WITH THE OWNER.

I. WHERE DEMOLISHING OR REPLACING SLAB ON GRADE CONDITIONS, REPLACE OR REPAIR EXISTING VAPOR BARRIER TO CREATE A CONTINUOUS MEMBRANE LAYER. TIE INTO EXISTING VAPOR BARRIER AND TAPE.

LEGEND - DEMOLITION PLANS

- EXISTING ITEM TO BE REMOVED OR DEMOLISHED.
- EXISTING WALL TO BE REMOVED OR DEMOLISHED.
- EXISTING WALL TO REMAIN.

KEYED NOTES - DEMOLITION

1	REMOVE EXISTING STONE AND CARPET FLOORING THROUGHOUT THE LOBBY. DASHED LINE INDICATIONS THE EXTENT OF THE DEMOLITION SCOPE. PREPARE SUBFLOOR TO RECEIVE NEW FLOOR FINISH PER FINISH PLANS. SEE FINISH PLAN FOR THE EXTENT OF NEW WORK. PATCH AND REPAIR WALLS AS NECESSARY TO RECEIVE NEW WALL BASE.
2	REMOVE EXISTING FLOORING AND BASE THROUGHOUT THE ENTIRE AREA. PREPARE SUBFLOOR TO RECEIVE NEW FLOOR FINISH PER FINISH PLANS. COORDINATE EXTENTS OF NEW WORK WITH FINISH PLANS. PATCH AND REPAIR WALLS AS NECESSARY TO RECEIVE NEW WALL BASE.
3	REMOVE EXISTING STONE FLOORING IN THIS AREA AS PART OF BASE BID, DASHED LINE INDICATES THE EXTENT OF THE STONE FLOORING TO BE DEMOLISHED. PREPARE SUBFLOOR TO RECEIVE NEW FLOORING FINISH PER FINISH PLANS. PATCH AND REPAIR WALL AS NECESSARY TO RECEIVE NEW WALL BASE.
4	REMOVE AND SALAVAGE EXISTING DOORS, DOOR FRAMES, AND HARDWARE. REUSE EXISTNG DOORS WHERE APPLICABLE. SALAVAGED DOORS TO BE REFINISHED PER DOOR SCHEDULE. COORDINATE ANY REMAINING ATTIC STOCK WITH OWNER.
5	REMOVE EXISTING COUNTERTOP AND PREPARE FOR NEW COUNTERTOP PER FLOOR PLAN.
6	HATCHED AREA INDICATES EXISTING BASE CABINET TO BE REMOVED. SEE FLOOR PLAN FOR CLEARANCE FOR NEW GREASE INTERCEPTOR AT THIS LOCATION.
7	EXISTING FLOORING AND BASE TO REMAIN IN THIS AREA.
8	REMOVE EXISTING FLOORING AND WALL BASE THROUGHOUT THE ENTIRE FLOOR. PREPARE SUBFLOOR AND WALLS TO RECEIVE NEW FLOORING FINISH AND BASE PER FINISH PLANS. COORDINATE EXTENTS OF NEW WORK WITH FINISH FLOOR PLANS.
9	EXISITING ELECTRICAL DEVICES TO REMAIN AT THIS LOCATION AND TO BE INTEGRATED INTO GRAPHICS BAND. IF ANY RELOCATION OF ELECTRICAL CONTROLS IS NECESSARY COORDINATE WITH KCL DRAWINGS FOR EXISTING LOCATIONS.
10	REMOVE EXISTING WALLCOVERING IN THIS ROOM. REPAIR WALL SURFACE TO RECEIVE NEW LEVEL 4 WALL FINISH PER FINISH FLOOR PLAN.
11	REMOVE AND SALVAGE EXISTING LOCKERS. PATCH AND REPAIR EXISTING FLOORING TO MATCH ADJACENT FLOOR FINISH IF NEEDED.
12	REMOVE EXISTING CASEWORK.
13	REMOVE EXISTING FLOORING AND BASE IN THIS AREA AND PREP TO REPLACE WITH NEW CARPET AND BASE. PATCH AND REPAIR EXISTING WALLS AS NECESSARY. SEE FINISH PLANS AND FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
14	REMOVE EXISTING CARPET AT ELEVATOR CABS. PREPARE SUBFLOOR TO RECEIVE NEW CARPET PER FINISH SCHEDULE.
15	COORDINATE WITH PLUMBING SCOPE TO ACCOMODATE NEW SAWCUT FOR NEW CONCRETE TRENCHES AND DRAINLINES.
16	DEMOLISH EXISTING PORTION OF BUILDING EXTERIOR. COORDINATE FINAL LOCATION AND SIZE WITH MECHANICAL DRAWINGS. SEE ARCHITECTURAL ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
17	REMOVE EXISTING SOLID WOOD CAP AND PREP FOR REPLACEMENT. SEE FINISH SCHEDULE FOR SPECIFICATION.
18	REMOVE EXISTING SPOT LIGHTS AT FEATURE WALL. PATCH AND REPAIR CEILING TO MATCH ADJACENT SURFACE.
19	REMOVE EXISTING CIRCULAR SOFFIT ABOVE COLUMN TO CREATE AN EVEN CEILING PLANE. PATCH AND REPAIR CEILING AS NECESSARY TO MATCH ADJACENT SURFACE.
20	REMOVE EXISTING SOFFITS IN THIS STORAGE AREA. PRA. PROVIDE AREA WITH NEW CEILING GRID PER RCPS AND LIGHTING PER MEP DRAWINGS.
21	DEMOLISH EXISTING ELEVATOR THRESHOLD AS NEEDED TO PREPARE FOR NEW THRESHOLD. SEE FLOORING TRANSITION DETAILS FOR ADDITIONAL INFORMATION.
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23	PATCH AND REPAIR FLOORING TO MATCH EXISTING.

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REGISTERED ARCHITECT
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REVISIONS:

BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

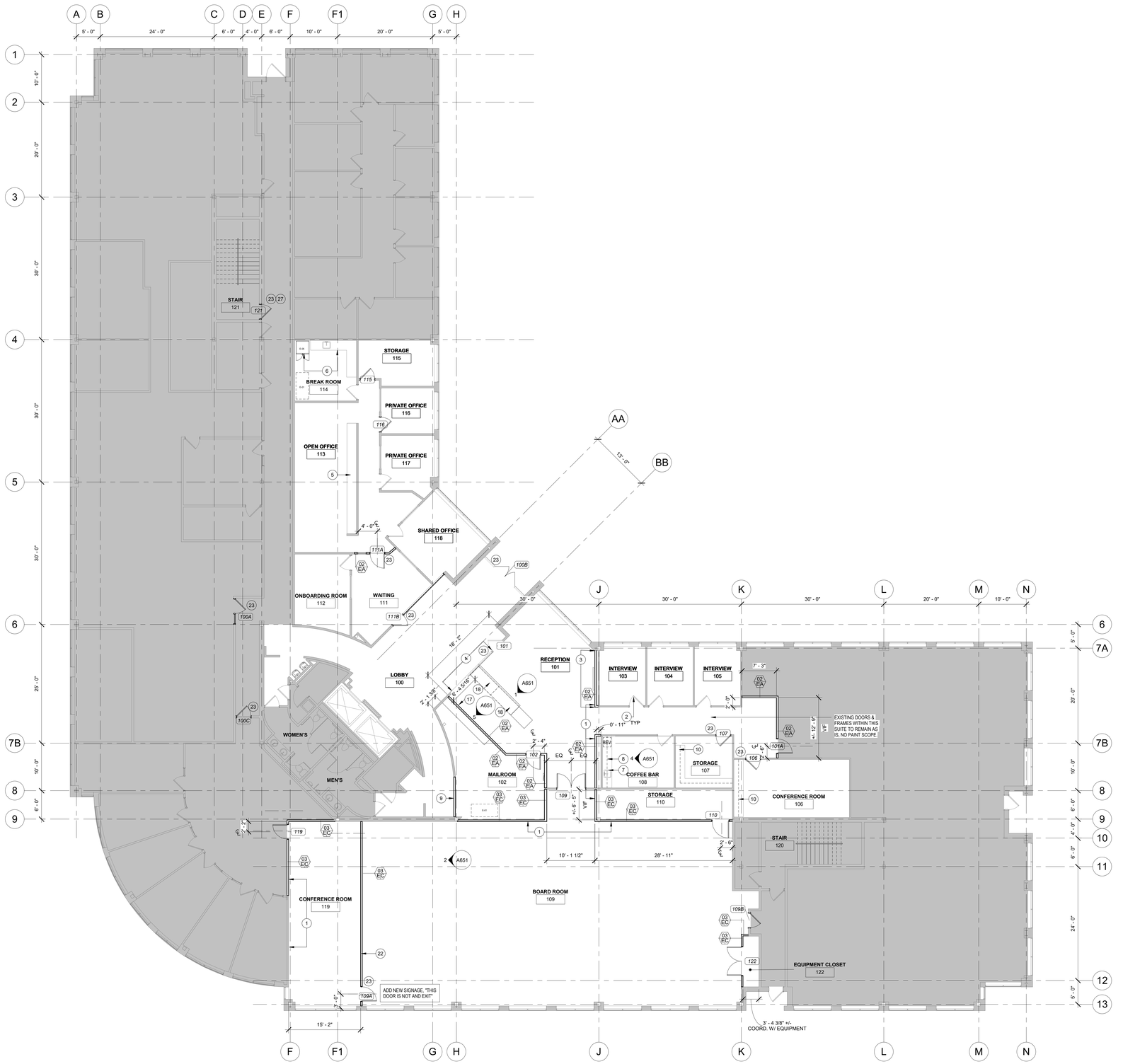
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

DEMOLITION PLAN - THIRD FLOOR

AD103

2/18/2022 2:00:54 PM



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

GENERAL NOTES - FLOOR PLAN

A. REFER TO PROJECT SPECIFICATIONS FOR COMPLETE PROJECT NOTES AND REQUIREMENTS.

B. DIMENSIONS ARE TO FACE OF WALL/FINISH UNLESS OTHERWISE NOTED. ADVISE ARCHITECT IN WRITING OF ANY DISCREPANCIES.

C. ALL ELECTRICAL WORK IS TO BE COORDINATED WITH MEP DRAWINGS. ALL ELECTRICAL OUTLETS, DATA AND SWITCHES ARE SHOWN FOR DESIGN INTENT AND REFERENCE ONLY. WHERE POSSIBLE, PROVIDE FLUSH-IN-WALL BOXES.

D. PATCH AREAS ADJACENT OR ADJOINING DEMOLITION WORK TO MATCH EXISTING AND/OR NEW CONSTRUCTION. ALL EXISTING WALL DAMAGE TO BE PATCHED AND REPAIRED PRIOR TO RECEIVING NEW PAINT.

E. ALL NEW GYPSUM BOARD WALL SURFACES TO RECEIVE A SMOOTH, LEVEL 4 FINISH PER AWCI STANDARDS.

F. ACOUSTICAL CAULK ALL WALL/GLASS AND WALL/MULLION JOINTS.

G. PROVIDE NEW FLOORING AND BASE UNLESS NOTED OTHERWISE. PROVIDE FLOOR PREP FOR A SMOOTH SURFACE PRIOR TO INSTALLATION.

H. WHERE NEW DOORS, FRAMES AND HARDWARE ARE PROVIDED, MATCH EXISTING PER DOOR SCHEDULE. NEW DOOR HARDWARE IS TO MATCH BUILDING STANDARD AND BE COMPATIABLE TO RECEIVE AN IC CORE PER DISTRICT STANDARDS.

LEGEND - FLOOR PLANS

WALL TAG — WALL TYPE PER ASSEMBLY; BRACING CONDITION; STUD TYPE PER LEGEND

DOOR TAG - UNIQUE — 102 : DOOR TAG - REFER TO DOOR SCHEDULE

DOOR TAG - REPEATABLE — 34 A : DOOR TYPE - SEE SCHEDULE; DOOR WIDTH

WINDOW TAG — A : WINDOW TYPE - SEE SCHEDULE

KEY NOTE — 1 : KEY NOTE - SEE SCHEDULE

STUD SIZE LEGEND

A	7/8" FURRING CHANNEL
B	1 1/2" FURRING CHANNEL
C	1 5/8" METAL STUD
D	2 1/2" METAL STUD
E	3 5/8" METAL STUD
F	4" METAL STUD
G	6" METAL STUD
H	8" METAL STUD
I	2 1/2" C-H SHAFT WALL STUD
J	4" C-H SHAFT WALL STUD
K	6" C-H SHAFT WALL STUD

BRACING CONDITION

A	UNDERSIDE OF GRID
B	6" ABOVE GRID
C	FULL HEIGHT TO STRUCTURE

KEYED NOTES - FLOOR PLANS

1	ALIGN FACE OF FINISHES BETWEEN THESE WALLS.
2	ALL EXISTING DOORS SHOWN AT A 45 DEGREE ANGLE ARE EXISTING TO REMAIN. PREPARE ALL EXISTING DOORS AND FRAME TO BE REFINISHED PER DOOR SCHEDULE. ALL EXISTING DOOR HARDWARE TO BE RECORED PER BID STANDARDS.
3	WALL TO RECEIVE NEW GRAPHICS AND BRANDING. FINISH WALL TO LEVEL 5 TO RECEIVE NEW GRAPHICS AND PAINT.
4	PROVIDE NEW PRIVACY FILM AT EXISTING STOREFRONT AT 42" A.F.F.SEE FINISH LEGEND FOR FINAL SPECIFICATION.
5	EXISTING COUNTER TO REMAIN.
6	EXISTING CASEWORK AND PLUMBING FIXTURES TO REMAIN. NEW FRIDGE TO BE OWNER FURNISHED AND CONTRACTOR INSTALLED. SEE EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
7	PROVIDE NEW PLASTIC LAMINATE COUNTERTOP PER FINISH LEGEND.
8	COORDINATE NEW GREASE INTERCEPTOR, ELECTRICAL, AND PLUMBING FOR THE COFFEE BAR WITH MEP DRAWINGS.
9	PROVIDE MILLWORK ON NEW WALL PARTITION TO MATCH THE EXISTING ADJACENT MILLWORK.
10	EXISTING CASEWORK TO REMAIN.
11	EXTEND ALL THE EXISTING WALLS OF THE FRAME ROOM TO UNDERSIDE OF STRUCUTURE.
12	PROVIDE PLYWOOD BACK FOR NEW EQUIPMENT. COORDINATE ANY NEW MECHANICAL OR ELECTRICAL REQUIREMENTS FOR THE FRAME ROOM WITH THE MEP DRAWINGS.
13	EXISTING CASEWORK, PLUMBING, AND DISHWASHER TO REMAIN IN THIS AREA. ADDITIONAL APPLIANCES TO BE OWNER PROVIDED AND CONTRACTOR INSTALLED, COORDINATE ANY NEW MEP WITH MEP DRAWINGS.
14	ALL EXISTING DOORS, DOOR FRAMES, AND RELITES TO REMAIN. ALL EXISTING DOORS TO BE REPAINTED PER DOOR SCHEDULE.
15	ALIGN NEW WALL WITH EXISTING MULLION. CENTER WALL ON MULLION. DETAIL ATTACHMENT TO MATCH THE EXISTING SITE CONDITIONS WHERE WALLS INTERSECT WITH WINDOW MULLIONS.
16	NEW GRAPHIC BRANDING WALL. OWNER TO PROVIDED BRANDING ASSETS. BRANDING ASSETS TO BE OWNER INSTALLED.
17	NEW BUILT-IN CREDENZA. SEE ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
18	NEW OWNER PROVIDED 30"X60" SIT TO STAND DESKS. G.C. TO REFER TO DETAILS AND ELEVATIONS FOR BUILT-IN COMPONENTS AT RECEPTION DESK SURROUND.
19	NEW CASEWORK. SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
20	CLEAN FABRIC AT EXISTING FOLDING PARTITIONS.
21	REMOVE EXISTING WOOD CAP AT ELEVATOR LOBBY 200 RAILING. REPLACE WITH NEW SOLID WOOD MAPLE CAP WITH TRANSPARENT STAIN PER THE MASTER SPECIFICATION.
22	EXISTING WALL TO RUN TO UNDERSIDE OF STRUCTURE TO MATCH NEW WALL THAT IS ADJACENT. COORDINATE WITH MECHANICAL FOR BREAK IN RETURN PLENUM SPACE.
23	SEE SECURITY/AV DRAWINGS FOR ACCESS CONTROL REQUIREMENTS AT THIS DOOR. SEE DOOR SCHEDULE FOR HARDWARE MODIFICATIONS IF APPLICABLE.
24	EXISTING PARTIAL HEIGHT WALL TO REMAIN. G.C. TO EXTEND EXISTING WALL TO UNDERSIDE OF STRUCTURE.
27	CONNECT DOOR ACCESS TO THE BUILDING'S EXISTING FIRE ALARM SYSTEM TO ALLOW FREE ACCESS IN AN EMERGENCY EVENT.

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SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

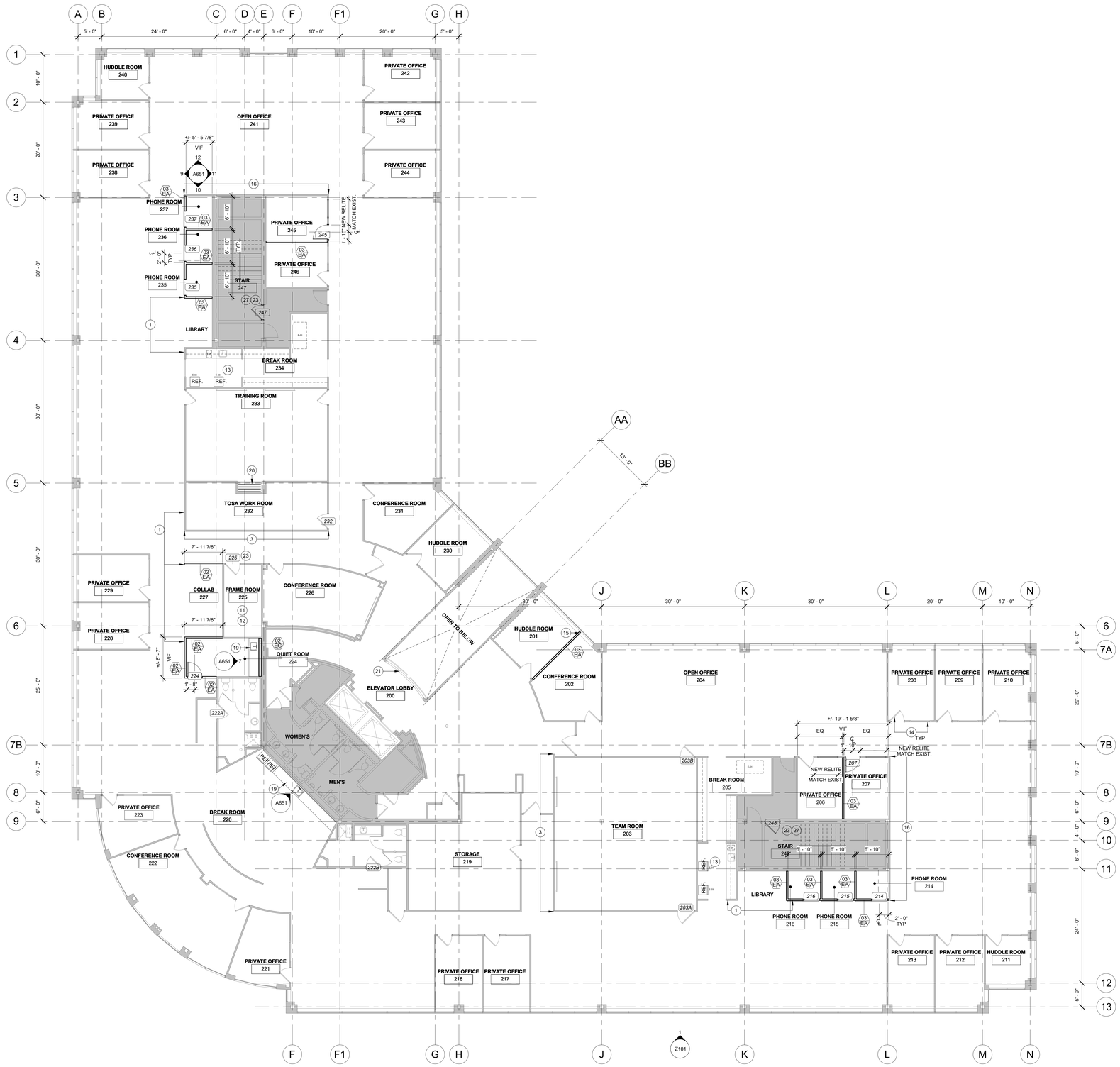
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

FLOOR PLAN - GROUND FLOOR

A101

2/18/2022 12:43:49 PM



FLOOR PLAN - LEVEL 2 (1)
1/8" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A. REFER TO PROJECT SPECIFICATIONS FOR COMPLETE PROJECT NOTES AND REQUIREMENTS.

B. DIMENSIONS ARE TO FACE OF WALL/FINISH UNLESS OTHERWISE NOTED. ADVISE ARCHITECT IN WRITING OF ANY DISCREPANCIES.

C. ALL ELECTRICAL WORK IS TO BE COORDINATED WITH MEP DRAWINGS. ALL ELECTRICAL OUTLETS, DATA AND SWITCHES ARE SHOWN FOR DESIGN INTENT AND REFERENCE ONLY. WHERE POSSIBLE, PROVIDE FLUSH-IN-WALL BOXES.

D. PATCH AREAS ADJACENT OR ADJOINING DEMOLITION WORK TO MATCH EXISTING AND/OR NEW CONSTRUCTION. ALL EXISTING WALL DAMAGE TO BE PATCHED AND REPAIRED PRIOR TO RECEIVING NEW PAINT.

E. ALL NEW GYPSUM BOARD WALL SURFACES TO RECEIVE A SMOOTH, LEVEL 4 FINISH PER AWCI STANDARDS.

F. ACOUSTICAL CAULK ALL WALL/GLASS AND WALL/MULLION JOINTS.

G. PROVIDE NEW FLOORING AND BASE UNLESS NOTED OTHERWISE. PROVIDE FLOOR PREP FOR A SMOOTH SURFACE PRIOR TO INSTALLATION.

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LEGEND - FLOOR PLANS

WALL TAG — 7A / EA: WALL TYPE PER ASSEMBLY; BRACING CONDTION; STUD TYPE PER LEGEND

DOOR TAG - UNIQUE — 102: DOOR TAG - REFER TO DOOR SCHEDULE

DOOR TAG - REPEATABLE — 34 / A: DOOR TYPE - SEE SCHEDULE; DOOR WIDTH

WINDOW TAG — A: WINDOW TYPE - SEE SCHEDULE

KEY NOTE — 1: KEY NOTE - SEE SCHEDULE

STUD SIZE LEGEND

A	7/8" FURRING CHANNEL
B	1 1/2" FURRING CHANNEL
C	1 5/8" METAL STUD
D	2 1/2" METAL STUD
E	3 5/8" METAL STUD
F	4" METAL STUD
G	6" METAL STUD
H	8" METAL STUD
I	2 1/2" C-H SHAFT WALL STUD
J	4" C-H SHAFT WALL STUD
K	6" C-H SHAFT WALL STUD

BRACING CONDITION

A	UNDERSIDE OF GRID
B	6" ABOVE GRID
C	FULL HEIGHT TO STRUCTURE

KEYED NOTES - FLOOR PLANS

1	ALIGN FACE OF FINISHES BETWEEN THESE WALLS
2	ALL EXISTING DOORS SHOWN AT A 45 DEGREE ANGLE ARE EXISTING TO REMAIN. PREPARE ALL EXISTING DOORS AND FRAME TO BE REFINISHED PER DOOR SCHEDULE. ALL EXISTING DOOR HARDWARE TO BE RECORED PER BSD STANDARDS.
3	WALL TO RECEIVE NEW GRAPHICS AND BRANDING. FINISH WALL TO LEVEL 5 TO RECEIVE NEW GRAPHICS AND PAINT.
4	PROVIDE NEW PRIVACY FILM AT EXISTING STOREFRONT AT 42" A.F.F. SEE FINISH LEGEND FOR FINAL SPECIFICATION.
5	EXISTING COUNTER TO REMAIN.
6	EXISTING CASEWORK AND PLUMBING FIXTURES TO REMAIN. NEW FRIDGE TO BE OWNER FURNISHED AND CONTRACTOR INSTALLED. SEE EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
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SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

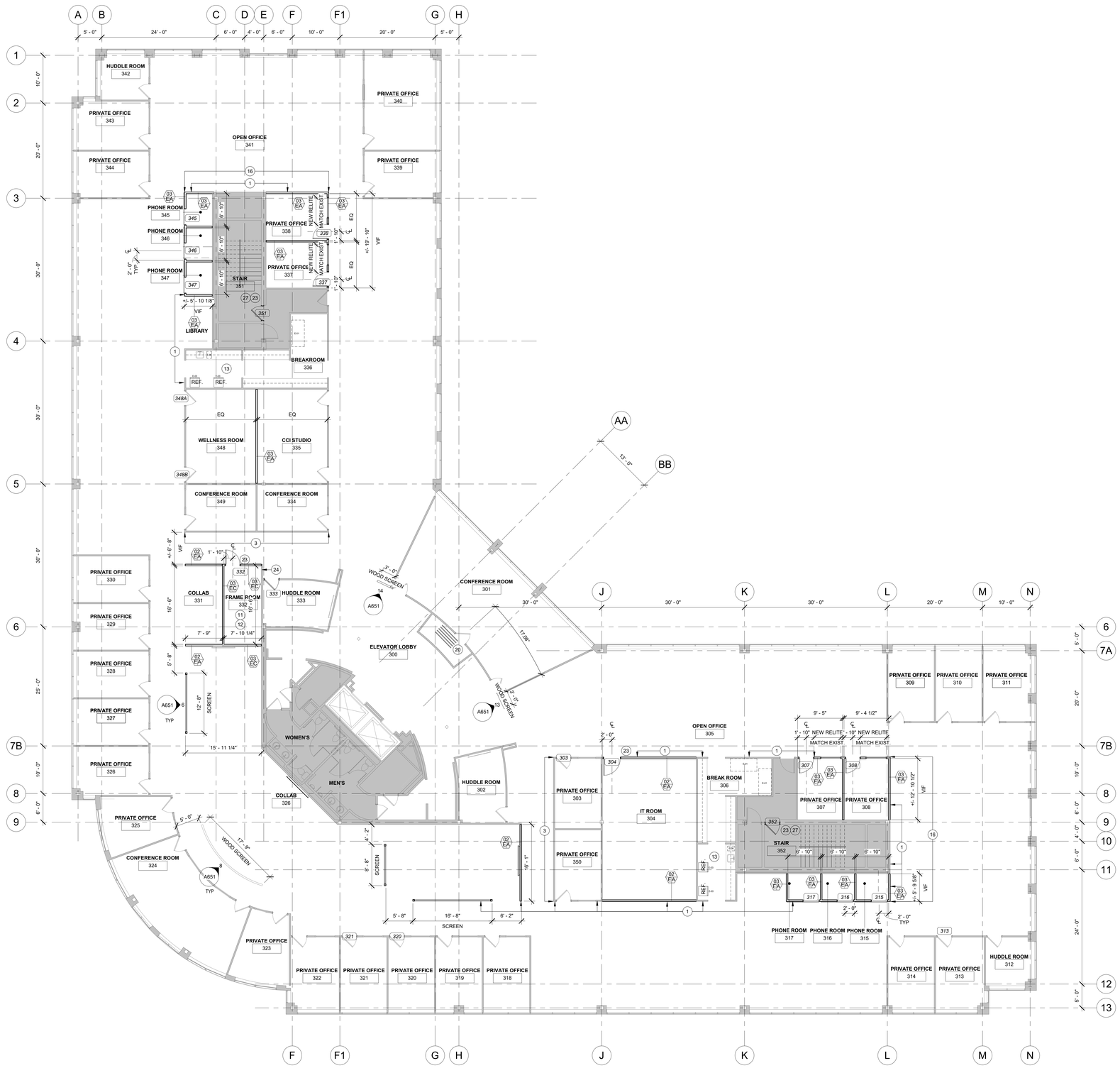
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

FLOOR PLAN - LEVEL 2

A102

2/18/2022 12:43:43 PM



FLOOR PLAN - LEVEL 3 (1)
1/8" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A. REFER TO PROJECT SPECIFICATIONS FOR COMPLETE PROJECT NOTES AND REQUIREMENTS.

B. DIMENSIONS ARE TO FACE OF WALL/FINISH UNLESS OTHERWISE NOTED. ADVISE ARCHITECT IN WRITING OF ANY DISCREPANCIES.

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D. PATCH AREAS ADJACENT OR ADJOINING DEMOLITION WORK TO MATCH EXISTING AND/OR NEW CONSTRUCTION. ALL EXISTING WALL DAMAGE TO BE PATCHED AND REPAIRED PRIOR TO RECEIVING NEW PAINT.

E. ALL NEW GYPSUM BOARD WALL SURFACES TO RECEIVE A SMOOTH, LEVEL 4 FINISH PER AWCI STANDARDS.

F. ACOUSTICAL CAULK ALL WALL/GLASS AND WALL/MULLION JOINTS.

G. PROVIDE NEW FLOORING AND BASE UNLESS NOTED OTHERWISE. PROVIDE FLOOR PREP FOR A SMOOTH SURFACE PRIOR TO INSTALLATION.

H. WHERE NEW DOORS, FRAMES AND HARDWARE ARE PROVIDED, MATCH EXISTING PER DOOR SCHEDULE. NEW DOOR HARDWARE IS TO MATCH BUILDING STANDARD AND BE COMPATIABLE TO RECEIVE AN IC CORE PER DISTRICT STANDARDS.

LEGEND - FLOOR PLANS

WALL TAG — 7A / 03 EA: WALL TYPE PER ASSEMBLY; BRACING CONDITION; STUD TYPE PER LEGEND

DOOR TAG - UNIQUE — 102: DOOR TAG - REFER TO DOOR SCHEDULE

DOOR TAG - REPEATABLE — 34 A: DOOR TYPE - SEE SCHEDULE; DOOR WIDTH

WINDOW TAG — A: WINDOW TYPE - SEE SCHEDULE

KEY NOTE — 1: KEY NOTE - SEE SCHEDULE

STUD SIZE LEGEND

A	7/8" FURRING CHANNEL
B	1 1/2" FURRING CHANNEL
C	1 5/8" METAL STUD
D	2 1/2" METAL STUD
E	3 5/8" METAL STUD
F	4" METAL STUD
G	6" METAL STUD
H	8" METAL STUD
I	2 1/2" C-H SHAFT WALL STUD
J	4" C-H SHAFT WALL STUD
K	6" C-H SHAFT WALL STUD

BRACING CONDITION

A	UNDERSIDE OF GRID
B	6" ABOVE GRID
C	FULL HEIGHT TO STRUCTURE

KEYED NOTES - FLOOR PLANS

1	ALIGN FACE OF FINISHES BETWEEN THESE WALLS
2	ALL EXISTING DOORS SHOWN AT A 45 DEGREE ANGLE ARE EXISTING TO REMAIN. PREPARE ALL EXISTING DOORS AND FRAME TO BE REFINISHED PER DOOR SCHEDULE. ALL EXISTING DOOR HARDWARE TO BE RECORED PER BSD STANDARDS.
3	WALL TO RECEIVE NEW GRAPHICS AND BRANDING. FINISH WALL TO LEVEL 5 TO RECEIVE NEW GRAPHICS AND PAINT.
4	PROVIDE NEW PRIVACY FILM AT EXISTING STOREFRONT AT 42" A.F.F. SEE FINISH LEGEND FOR FINAL SPECIFICATION.
5	EXISTING COUNTER TO REMAIN.
6	EXISTING CASEWORK AND PLUMBING FIXTURES TO REMAIN. NEW FRIDGE TO BE OWNER FURNISHED AND CONTRACTOR INSTALLED. SEE EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
7	PROVIDE NEW PLASTIC LAMINATE COUNTERTOP PER FINISH LEGEND.
8	COORDINATE NEW GREASE INTERCEPTOR, ELECTRICAL, AND PLUMBING FOR THE COFFEE BAR WITH MEP DRAWINGS.
9	PROVIDE MILLWORK ON NEW WALL PARTITION TO MATCH THE EXISTING ADJACENT MILLWORK.
10	EXISTING CASEWORK TO REMAIN.
11	EXTEND ALL THE EXISTING WALLS OF THE FRAME ROOM TO UNDERSIDE OF STRUCUTURE.
12	PROVIDE PLYWOOD BACK FOR NEW EQUIPMENT. COORDINATE ANY NEW MECHANICAL OR ELECTRICAL REQUIREMENTS FOR THE FRAME ROOM WITH THE MEP DRAWINGS.
13	EXISTING CASEWORK, PLUMBING, AND DISHWASHER TO REMAIN IN THIS AREA. ADDITIONAL APPLIANCES TO BE OWNER PROVIDED AND CONTRACTOR INSTALLED, COORDINATE ANY NEW MEP WITH MEP DRAWINGS.
14	ALL EXISTING DOORS, DOOR FRAMES, AND RELITES TO REMAIN. ALL EXISTING DOORS TO BE REPAINTED PER DOOR SCHEDULE.
15	ALIGN NEW WALL WITH EXISTING MULLION. CENTER WALL ON MULLION. DETAIL ATTACHMENT TO MATCH THE EXISTING SITE CONDITIONS WHERE WALLS INTERSECT WITH WINDOW MULLIONS.
16	NEW GRAPHIC BRANDING WALL, OWNER TO PROVIDED BRANDING ASSETS. BRANDING ASSETS TO BE OWNER INSTALLED.
17	NEW BUILT-IN CREDENZA, SEE ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
18	NEW OWNER PROVIDED 30"X60" SIT TO STAND DESKS. G.C. TO REFER TO DETAILS AND ELEVATIONS FOR BUILT-IN COMPONENTS AT RECEPTION DESK SURROUND.
19	NEW CASEWORK. SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
20	CLEAN FABRIC AT EXISTING FOLDING PARTITIONS.
21	REMOVE EXISTING WOOD CAP AT ELEVATOR LOBBY 200 RAILING. REPLACE WITH NEW SOLID WOOD MAPLE CAP WITH TRANSPARENT STAIN PER THE MASTER SPECIFICATION.
22	EXISTING WALL TO RUN TO UNDERSIDE OF STRUCTURE TO MATCH NEW WALL THAT IS ADJACENT. COORDINATE WITH MECHANICAL FOR BREAK IN RETURN PLENUM SPACE.
23	SEE SECURITY/AV DRAWINGS FOR ACCESS CONTROL REQUIREMENTS AT THIS DOOR. SEE DOOR SCHEDULE FOR HARDWARE MODIFICATIONS IF APPLICABLE.
24	EXISTING PARTIAL HEIGHT WALL TO REMAIN. G.C. TO EXTEND EXISTING WALL TO UNDERSIDE OF STRUCTURE.
27	CONNECT DOOR ACCESS TO THE BUILDING'S EXISTING FIRE ALARM SYSTEM TO ALLOW FREE ACCESS IN AN EMERGENCY EVENT.

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BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

FLOOR PLAN - LEVEL 3

A103

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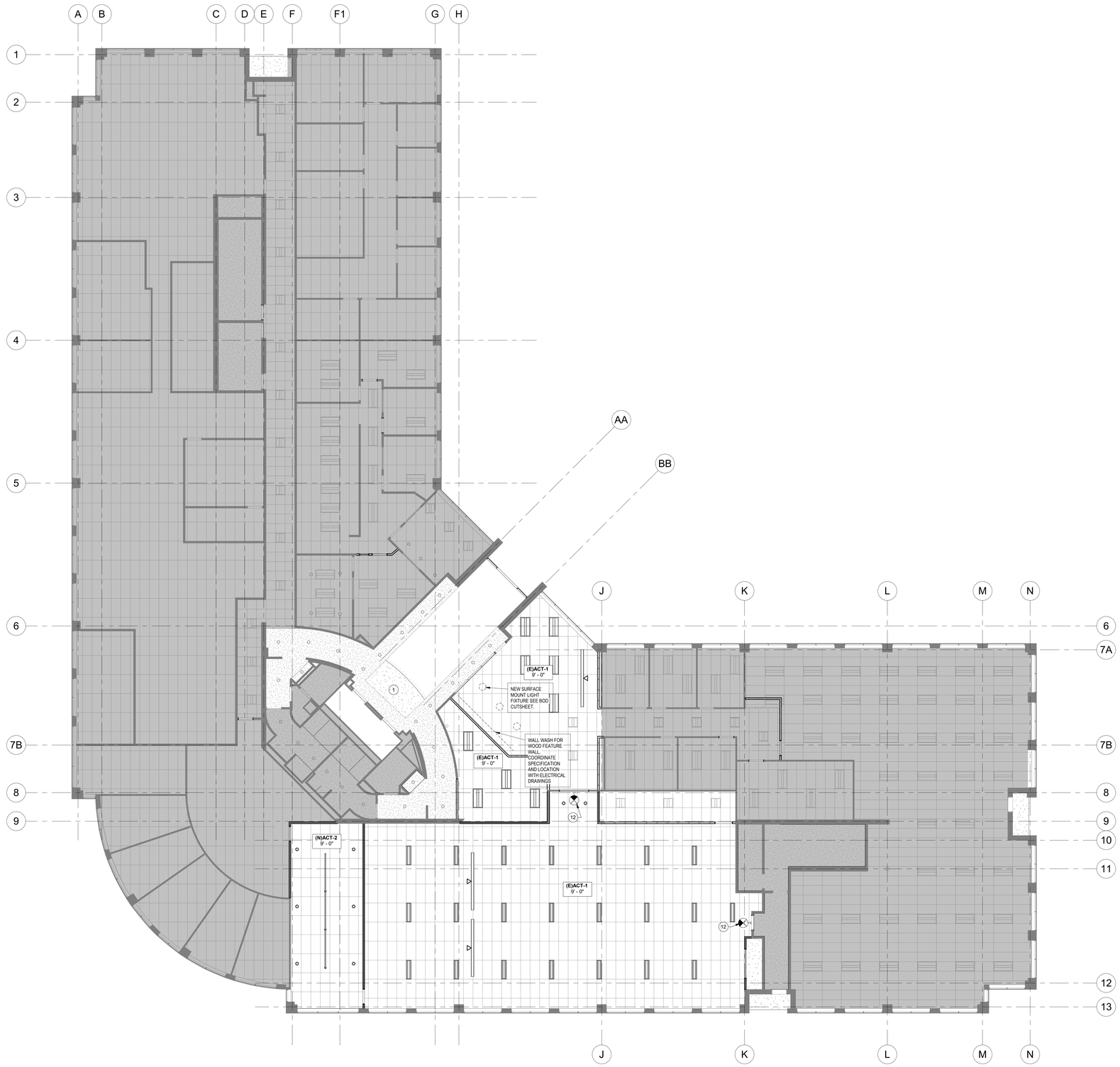

CEILING PLAN - LEVEL 1 (1)
1/8" = 1'-0"

GENERAL NOTES - REFLECTED CEILING PLANS

GENERAL CEILING SCOPE:
ALL EXISTING CEILINGS ARE TO REMAIN, UNLESS OTHERWISE NOTED.

EXISTING GYP. BD. CEILINGS ARE TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED.

REFER TO MEP DRAWINGS FOR LIGHTING LAYOUT INFORMATION. HBX LIGHTING IS SHOWN FOR DIAGRAMATIC PURPOSES ONLY, UNLESS DIMENSIONED ON ARCHITECTURAL PLANS.

A. REFER TO SPECIFICATIONS FOR COMPLETE LIST OF GENERAL NOTES.

B. LIGHTING SHOWN IS FOR DESIGN INTENT ONLY. COORDINATE LIGHTING AND CONTROLS WITH MEP.

C. DESIGN REQUIREMENT FOR **(NEW)** CEILINGS MUST MEET THE REQUIREMENTS OF THE 2015 INTERNATIONAL BUILDING CODE FOR SEISMIC CATEGORIES D, E & F, ASCE 7-02, OR-OL OR CISCA RECORDATION FOR SEISMIC ZONES 3 & 4 OR TO THE LOCAL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. SEE GENERAL NOTES ON A810 FOR DESIGN REQUIREMENTS.

D. COORDINATE ALL **(NEW)** AND **(RELOCATED)** SWITCHING WITH ELECTRICAL DRAWINGS FOR PREFERRED LOCATIONS.

E. CENTER ALL FIXTURES AND SPRINKLER HEADS WITHIN CEILING TILES, ALIGN RECESSED FIXTURES AND SPRINKLER SYSTEMS.

F. WHERE LIGHTING FIXTURES ARE PROPOSED WITHIN ROOMS WITH AN OPEN CEILING, PROVIDE SUFFICIENT SUPPORT SUCH AS UNISTRUT OR TIE WIRES TO SUSPEND FIXTURES AT 9'-0" AFF UNLESS NOTED OTHERWISE. SEE ELECTRICAL DRAWINGS FOR THESE LOCATIONS

LIGHTING AND CEILING MATERIALS - LEGEND

FINISHES KEY. SEE FINISH SCHEDULE FOR TYPES

(E) ACT-1:
(24 x 48)

(E) GWB:
(SEE TYPE)

WALL BRACING KEY - REFER TO PARTITION DETAILS

COMPOSITE WALL TO STRUCTURE - SEE WALL DETAIL C/A800.

BRACED WALL, BELOW CEILING - SEE WALL DETAIL A/A800.

CEILING TAG

ACT-1 — *CEILING TYPE - SEE SCHEDULE*
10-0" — *CEILING HEIGHT AFF*

LIGHTING & FIXTURE KEY. SEE SPECIFICATIONS AND ELEVATIONS FOR DETAILS

LIGHTING TAG - SEE SCHEDULE
L-X

TROFFER FIXTURE - 2 x 4

L-X **RECESSED CAN FIXTURE - SQUARE**

EXIT LIGHT (BATTERY BACKUP) - ARROW DESIGNATES DIRECTION

L-X **UNDER CABINET LIGHT**

KEYED NOTES - RCP

1	PAINT ALL EXISTING GYP. BD CEILINGS AND NEW GYP. BD. CEILINGS PER FINISH SCHEDULE.
2	EXISTING CEILINGS AND LIGHTING TO REMAIN, UNLESS OTHERWISE NOTED. COORDINATE ANY RELOCATIONS OR LIGHTING DIFFICIENCIES WITH KCL.
3	REMOVE EXISTING SUSPENDED LINEAR PENDANT AND REPLACE WITH NEW SUSPENDED LINEAR PENDANT PER ELECTRICAL DRAWINGS.
4	PATCH AND REPAIR EXISTING CEILING AREA WHERE WALL DEMOLITION OCCURS.
5	REMOVE EXISTING CEILING GRID AND TILE AT FRAME ROOM. PROVIDE NEW LIGHTING FOR THIS ROOM PER ELECTRICAL DRAWINGS.
6	EXISTING WALLS OF FRAME ROOM TO CONTINUE TO UNDERSIDE OF STRUCTURE.
7	ADD NEW LIGHT AT EXISTING JUNCTION BOX AND WHERE EXISTING SPOT LIGHT WAS REMOVED. NEW RECESSED CAN TO MATCH THE EXISTING ADJACENT FIXTURES. COORDINATE WITH MEP.
8	REMOVE EXISTING LIGHT FIXTURE COORDINATE WITH ELECTRICAL DRAWINGS.
9	REMOVE EXISTING SPOT LIGHT FIXTURES. G.C. TO PATCH AND REPAIR EXISTING GYP. BD. CEILING TO MATCH ADJACENT SURFACE.
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11	PROVIDE DIMMING SWITCH IN THIS ROOM. COORDINATE FINAL SWITCH LOCATION WITH ELECTRICAL DRAWINGS.
12	NEW EXIT SIGNAGE REQUIRED AT THIS LOCATION. COORDINATE SPECIFICATION AND FINAL PLACEMENT WITH ELECTRICAL DRAWINGS.

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DATE: 02.17.2022

REFLECTED CEILING PLAN - GROUND FLOOR

A201

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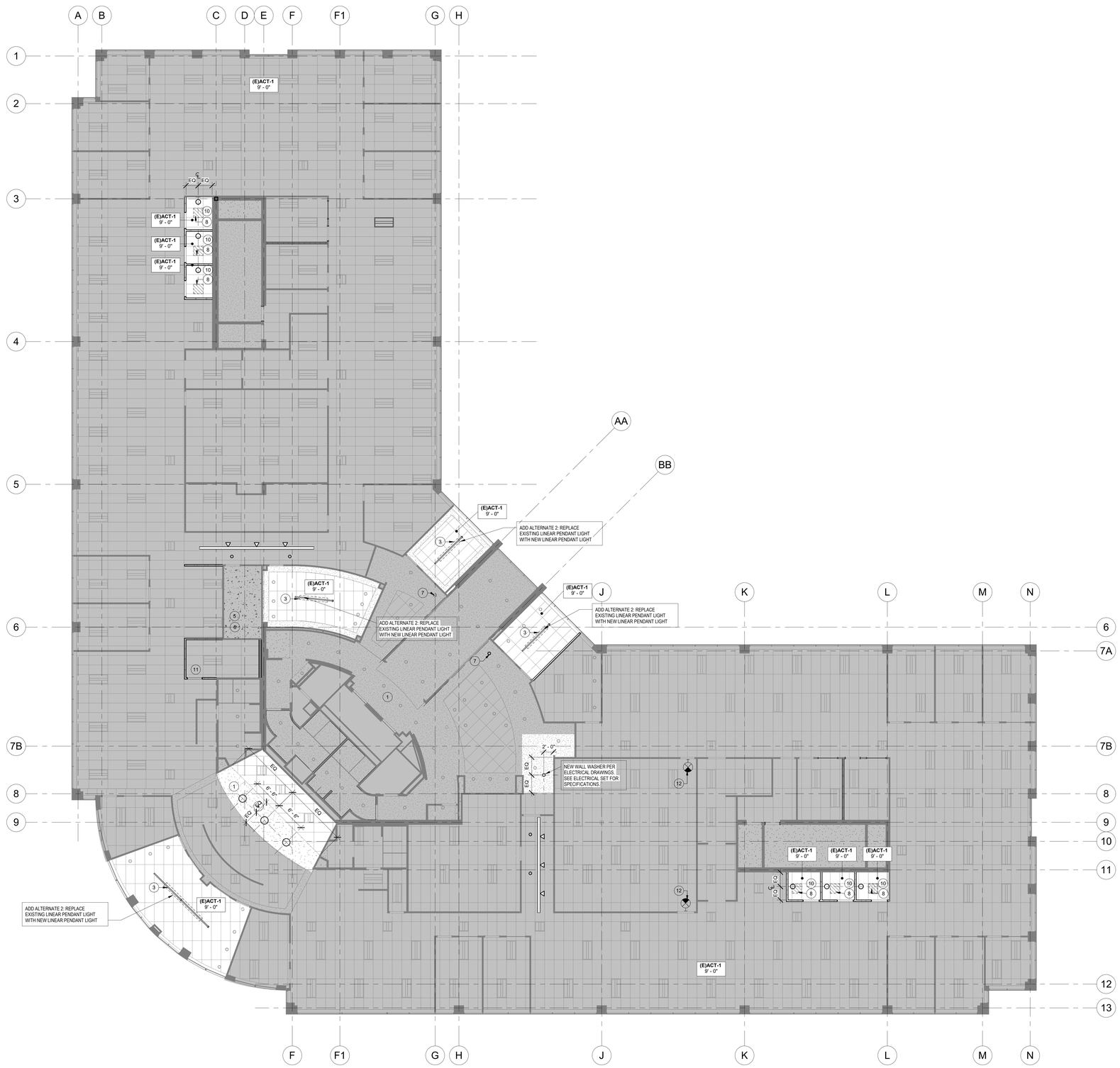

CEILING PLAN - LEVEL 2

1/8" = 1'-0"

GENERAL NOTES - REFLECTED CEILING PLANS

GENERAL CEILING SCOPE:
ALL EXISTING CEILINGS ARE TO REMAIN, UNLESS OTHERWISE NOTED.

EXISTING GYP. BD. CEILINGS ARE TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED.

REFER TO MEP DRAWINGS FOR LIGHTING LAYOUT INFORMATION. HBX LIGHTING IS SHOWN FOR DIAGRAMATIC PURPOSES ONLY, UNLESS DIMENSIONED ON ARCHITECTURAL PLANS.

A. REFER TO SPECIFICATIONS FOR COMPLETE LIST OF GENERAL NOTES.

B. LIGHTING SHOWN IS FOR DESIGN INTENT ONLY. COORDINATE LIGHTING AND CONTROLS WITH MEP.

C. DESIGN REQUIREMENT FOR **(NEW)** CEILINGS MUST MEET THE REQUIREMENTS OF THE 2015 INTERNATIONAL BUILDING CODE FOR SEISMIC CATEGORIES D, E & F, ASCE 7-02, OR-OL OR CSCA RECORDATION FOR SEISMIC ZONES 3 & 4 OR TO THE LOCAL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. SEE GENERAL NOTES ON A810 FOR DESIGN REQUIREMENTS.

D. COORDINATE ALL **(NEW)** AND **(RELOCATED)** SWITCHING WITH ELECTRICAL DRAWINGS FOR PREFERRED LOCATIONS.

E. CENTER ALL FIXTURES AND SPRINKLER HEADS WITHIN CEILING TILES, ALIGN RECESSED FIXTURES AND SPRINKLER SYSTEMS.

F. WHERE LIGHTING FIXTURES ARE PROPOSED WITHIN ROOMS WITH AN OPEN CEILING, PROVIDE SUFFICIENT SUPPORT SUCH AS UNISTRUT OR TIE WIRES TO SUSPEND FIXTURES AT 9'-0" AFF UNLESS NOTED OTHERWISE. SEE ELECTRICAL DRAWINGS FOR THESE LOCATIONS

LIGHTING AND CEILING MATERIALS - LEGEND

FINISHES KEY. SEE FINISH SCHEDULE FOR TYPES

(E) ACT-1:
(24 x 48)

(E) GWB:
(SEE TYPE)

WALL BRACING KEY - REFER TO PARTITION DETAILS

COMPOSITE WALL TO STRUCTURE - SEE WALL DETAIL C/A800.

BRACED WALL, BELOW CEILING - SEE WALL DETAIL A/A800.

CEILING TAG

ACT-1
10-0"

-CEILING TYPE - SEE SCHEDULE

-CEILING HEIGHT AFF

LIGHTING & FIXTURE KEY. SEE SPECIFICATIONS AND ELEVATIONS FOR DETAILS

LIGHTING TAG - SEE SCHEDULE

L-X

TROFFER FIXTURE - 2 x 4

L-X **RECESSED CAN FIXTURE - SQUARE**

EXIT LIGHT (BATTERY BACKUP) - ARROW DESIGNATES DIRECTION

L-X **UNDER CABINET LIGHT**

KEYED NOTES - RCP

1	PAINT ALL EXISTING GYP. BD CEILINGS AND NEW GYP. BD. CEILINGS PER FINISH SCHEDULE.
2	EXISTING CEILINGS AND LIGHTING TO REMAIN, UNLESS OTHERWISE NOTED. COORDINATE ANY RELOCATIONS OR LIGHTING DIFFICIENCIES WITH KCL.
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PROJECT: 21019
DATE: 02.17.2022

REFLECTED CEILING PLAN - LEVEL 2

A202

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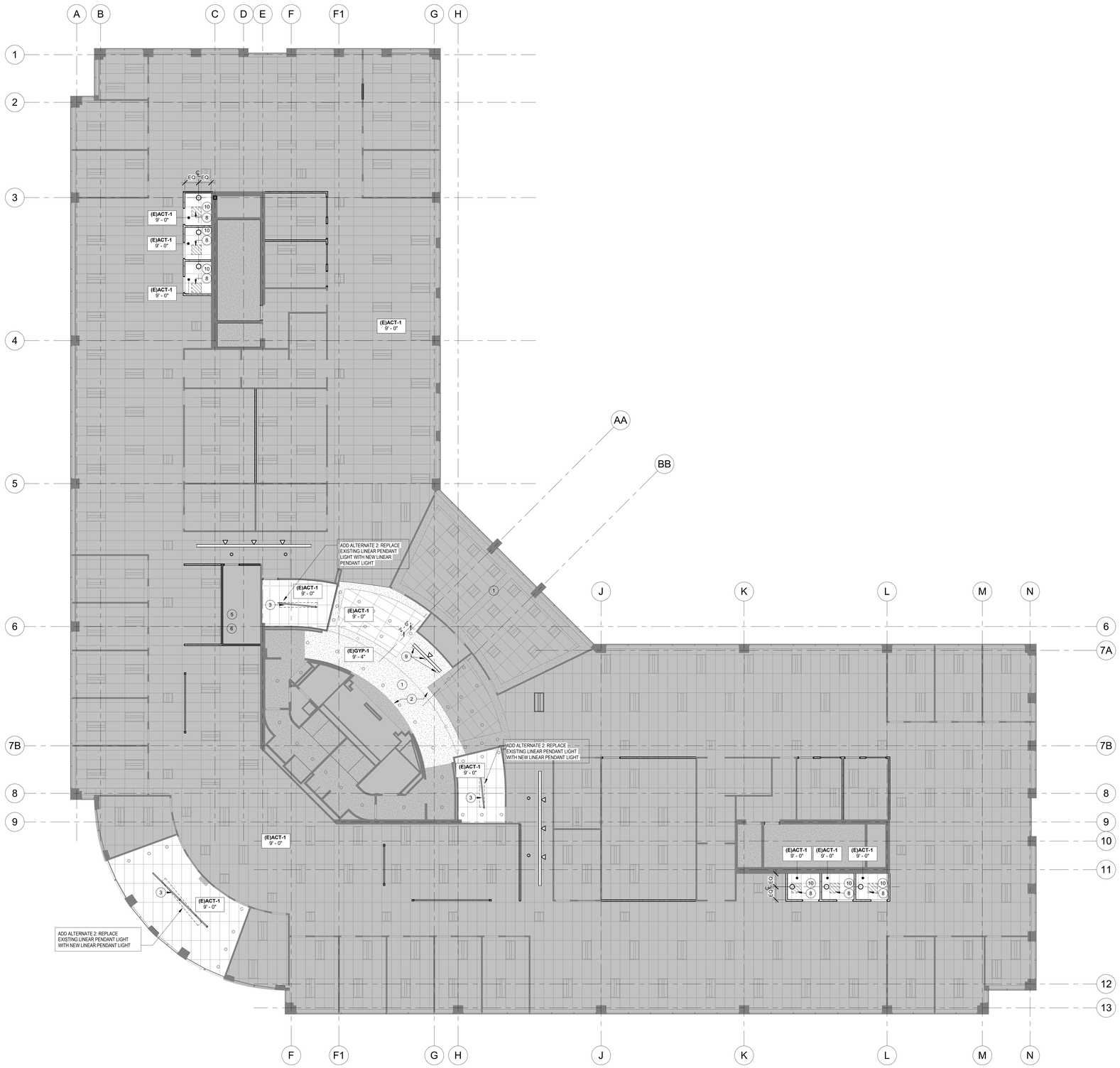

CEILING PLAN - LEVEL 3

1/8" = 1'-0"

GENERAL NOTES - REFLECTED CEILING PLANS

GENERAL CEILING SCOPE:
ALL EXISTING CEILINGS ARE TO REMAIN, UNLESS OTHERWISE NOTED.

EXISTING GYP. BD. CEILINGS ARE TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED.

REFER TO MEP DRAWINGS FOR LIGHTING LAYOUT INFORMATION. HBX LIGHTING IS SHOWN FOR DIAGRAMATIC PURPOSES ONLY, UNLESS DIMENSIONED ON ARCHITECTURAL PLANS.

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LIGHTING AND CEILING MATERIALS - LEGEND

FINISHES KEY. SEE FINISH SCHEDULE FOR TYPES

(E) ACT-1:
(24 x 48)

(E) GWB:
(SEE TYPE)

WALL BRACING KEY - REFER TO PARTITION DETAILS

COMPOSITE WALL TO STRUCTURE - SEE WALL DETAIL C/A800.

BRACED WALL, BELOW CEILING - SEE WALL DETAIL A/A800.

CEILING TAG

ACT-1 — *CEILING TYPE - SEE SCHEDULE*
10-0" — *CEILING HEIGHT AFF*

LIGHTING & FIXTURE KEY. SEE SPECIFICATIONS AND ELEVATIONS FOR DETAILS

LIGHTING TAG - SEE SCHEDULE

L-X **TROFFER FIXTURE** - 2 x 4

L-X **RECESSED CAN FIXTURE - SQUARE**

EXIT LIGHT (BATTERY BACKUP) - ARROW DESIGNATES DIRECTION

L-X **UNDER CABINET LIGHT**

KEYED NOTES - RCP

1	PAINT ALL EXISTING GYP. BD CEILINGS AND NEW GYP. BD. CEILINGS PER FINISH SCHEDULE.
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PROJECT: 21019
DATE: 02.17.2022

REFLECTED CEILING PLAN - LEVEL 3

A203

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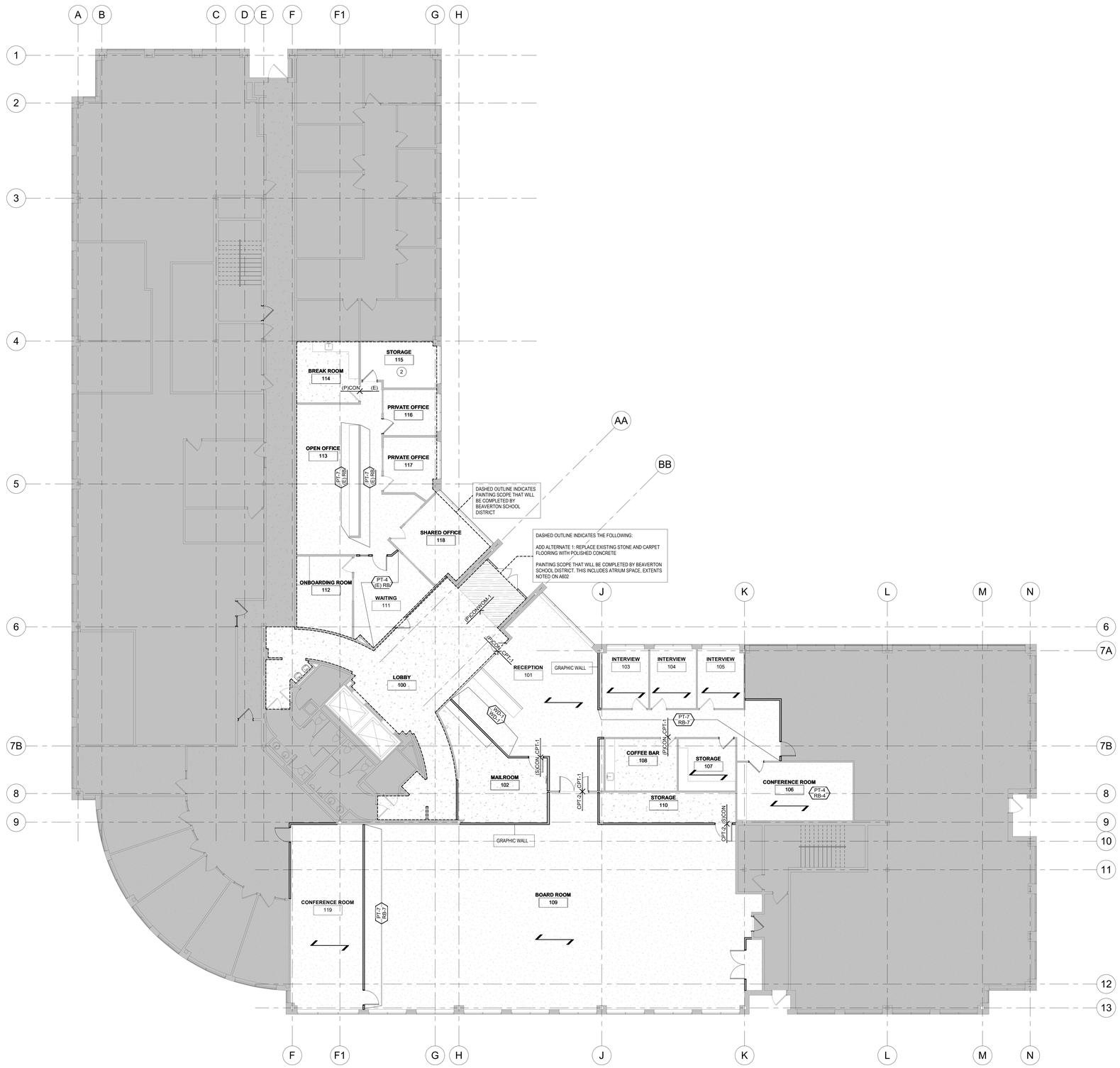

FLOOR FINISH PLAN - GROUND FLOOR

1/8" = 1'-0"

GENERAL NOTES - FINISH PLANS

A. REFER TO SHEET A650 FOR FINISH SCHEDULE AND MATERIAL PRODUCT INFORMATION.

B. SEE SPECIFICATIONS FOR SUBMITTAL PROCEDURES FOR REQUIREMENTS TO PROVIDE PRODUCT INFORMATION, SAMPLES, DIAGRAMS, SHOP DRAWINGS, AND/OR MOCKUPS.

C. ALL INTERIOR FINISHES TO MEET A MINIMUM CLASS C ASTM E86 RATING PER SHEET G101.

D. REFER TO SHEET A800 FOR CONDITIONS REQUIRING MOISTURE RESISTANT GYPSUM BOARD OR CEMENT BACKER BOARD.

E. REFER TO SPECIFICATIONS FOR TYPICAL FLOORING TRANSITIONS WHERE APPLICABLE.

F. PREPARE ALL SURFACES TO RECEIVE FINISHES PER MANUFACTURE'S RECOMMENDATIONS. INSTALL ALL FINISHES PER MANUFACTURER'S INSTRUCTIONS.

G. UNLESS NOTED OTHERWISE, CENTER ALL FIELD MATERIALS ON WALLS TO CREATE EVEN DISTRIBUTION OF PATTERNS. AT CERAMIC TILE WALLS, COORDINATE INSTALLATION TO ACCOMMODATE THE TILE MODULE WHERE SPECIFICALLY CALLED OUT.

H. TERMINATE ALL EXPOSED CERAMIC TILE EDGES WITH A SCHLUTER (SCHIENE) STRIP, COLOR TO BE SELECTED BY THE ARCHITECT.

I. AT PAINTED SURFACES, USE CONSISTENT INSTALLATION AND TOUCH UP METHODS TO CREATE A CONSISTENT AND UNIFORM LOOK IN APPLICATION AND TEXTURE.

J. PROVIDE THE FOLLOWING PAINT SHEENS AT THE BELOW CONDITIONS, UNLESS NOTED OTHER WISE.

WALLS:	EGGSHELL ENAMEL
CEILINGS:	FLAT
TRIM:	SEMI-GLOSS ENAMEL
WOOD/MDF:	SEMI-GLOSS ENAMEL

K. UNLESS NOTED OTHERWISE, PROVIDE A TOOLED CAULK JOINT AT ALL DISSIMILAR MATERIALS. COLOR TO BE SELECTED BY THE ARCHITECT.

L. ALL WALLS TO BE PAINTED THE GENERAL FIELD PAINT AND RECEIVE GENERAL WALL BASE UNLESS NOTED OTHERWISE.

LEGEND - FINISH PLANS

CARPET - SEE PLAN FOR TYPE

CONCRETE - (P)CON = POLISHED OR (S)CON = SEALED
REFER TO FINISH SCHEDULE FOR INFORMATION

CPT-1 - HERRINGBONE INSTALLATION
SEE PLANS FOR LOCATION

WOM-1 - WALK OFF MAT

CPT-2 - CARPET
SEE PLANS FOR LOCATION

NOT IN CONTRACT - AREA OUTSIDE SCOPE OF WORK

FLOOR FINISH TRANSITIONS

FLOOR FINISH TYPE, SEE SCHEDULE
FLOOR FINISH TYPE, SEE SCHEDULE
CT-1 CPT-1
LOCATION OF FLOOR FINISH TRANSITION

CARPET DIRECTION

LEGEND - FINISH PLAN - WALLS

PT-1
WALL FINISH TYPE
WALL FINISH EXTENTS (SEE ELEVATION FOR FULL EXTENTS)

PT-1
WALL FINISH TYPE
WALL FINISH EXTENTS (SEE ELEVATION FOR FULL EXTENTS)

ROOM NAME
100
PT-1 — TYPICAL WALL FINISH AT THIS ROOM, U.N.O.
WB-1 — TYPICAL BASE FINISH AT THIS ROOM, U.N.O.

KEYED NOTES - FINISH PLANS

1	ALIGN FACE OF FINISH.
2	EXISTING FLOORING TO REMAIN IN THIS ROOM.
3	FLOORING INSTALLATION PATTERN IN THIS AREA TO BE CPT-1 IN A HERRINGBONE INSTALLATION PATTERN. AREAS IN WHICH CPT-1 IS TO HAVE A DIFFERENT INSTALLATION METHOD IS SHOWN IN THE HATCH.
4	PROVIDE NEW PIN-UP MATERIAL IN THIS AREA ABOVE EXISTING COUNTERTOP AND RUN UP TO EXISTING CEILING. SEE FINISH SCHEDULE FOR SPECIFICATION INFORMATION.
5	EXISTING WOOD BASE THAT OCCURS AT ELEVATOR LOBBIES TO REMAIN. REPAINT EXISTING WOOD BASE WHERE OCCURS TO MATCH ADJACENT WALL FINISH.
6	SEE PHONE ROOM ELEVATIONS FOR PAINT INFORMATION.

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PROJECT: 21019
DATE: 02.17.2022

FLOOR FINISH PLAN - GROUND FLOOR

A601

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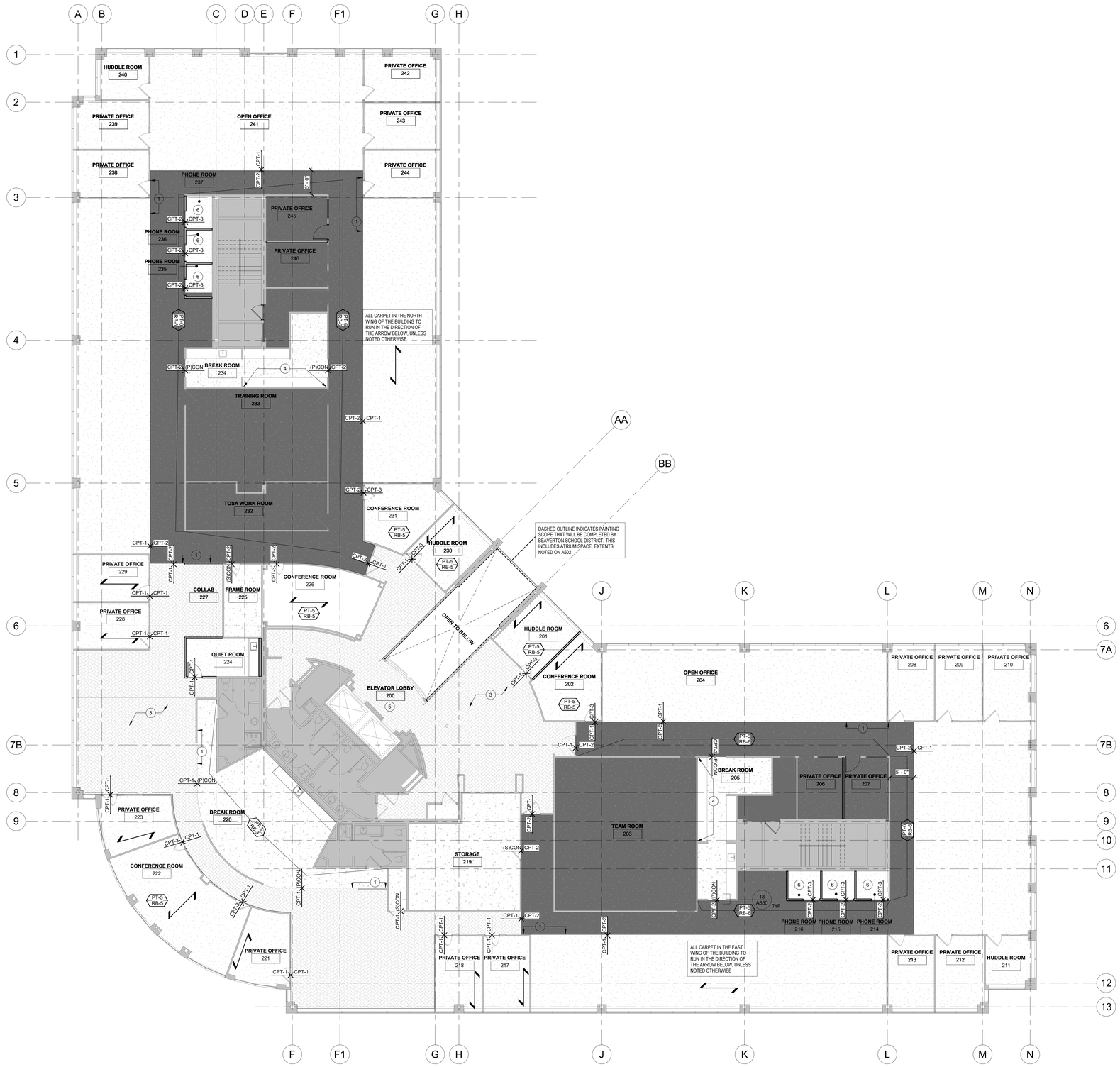

FLOOR FINISH PLAN - LEVEL 2 (1)
1/8" = 1'-0"

GENERAL NOTES - FINISH PLANS

A. REFER TO SHEET A650 FOR FINISH SCHEDULE AND MATERIAL PRODUCT INFORMATION.

B. SEE SPECIFICATIONS FOR SUBMITTAL PROCEDURES FOR REQUIREMENTS TO PROVIDE PRODUCT INFORMATION, SAMPLES, DIAGRAMS, SHOP DRAWINGS, AND/OR MOCKUPS.

C. ALL INTERIOR FINISHES TO MEET A MINIMUM CLASS C ASTM E86 RATING PER SHEET G101.

D. REFER TO SHEET A800 FOR CONDITIONS REQUIRING MOISTURE RESISTANT GYPSUM BOARD OR CEMENT BACKER BOARD.

E. REFER TO SPECIFICATIONS FOR TYPICAL FLOORING TRANSITIONS WHERE APPLICABLE.

F. PREPARE ALL SURFACES TO RECEIVE FINISHES PER MANUFACTURE'S RECOMMENDATIONS. INSTALL ALL FINISHES PER MANUFACTURER'S INSTRUCTIONS.

G. UNLESS NOTED OTHERWISE, CENTER ALL FIELD MATERIALS ON WALLS TO CREATE EVEN DISTRIBUTION OF PATTERNS. AT CERAMIC TILE WALLS, COORDINATE INSTALLATION TO ACCOMMODATE THE TILE MODULE WHERE SPECIFICALLY CALLED OUT.

H. TERMINATE ALL EXPOSED CERAMIC TILE EDGES WITH A SCHLUTER (SCHIENE) STRIP, COLOR TO BE SELECTED BY THE ARCHITECT.

I. AT PAINTED SURFACES, USE CONSISTENT INSTALLATION AND TOUCH UP METHODS TO CREATE A CONSISTENT AND UNIFORM LOOK IN APPLICATION AND TEXTURE.

J. PROVIDE THE FOLLOWING PAINT SHEENS AT THE BELOW CONDITIONS, UNLESS NOTED OTHER WISE.

WALLS:	EGGSHELL ENAMEL
CEILINGS:	FLAT
TRIM:	SEMI-GLOSS ENAMEL
WOOD/MDF:	SEMI-GLOSS ENAMEL

K. UNLESS NOTED OTHERWISE, PROVIDE A TOOLED CAULK JOINT AT ALL DISSIMILAR MATERIALS. COLOR TO BE SELECTED BY THE ARCHITECT.

L. ALL WALLS TO BE PAINTED THE GENERAL FIELD PAINT AND RECEIVE GENERAL WALL BASE UNLESS NOTED OTHERWISE.

LEGEND - FINISH PLANS

- CARPET - SEE PLAN FOR TYPE
- CONCRETE - (P)CON = POLISHED OR (S)CON = SEALED REFER TO FINISH SCHEDULE FOR INFORMATION
- CPT-1 - HERRINGBONE INSTALLATION SEE PLANS FOR LOCATION
- WOM-1 - WALK OFF MAT
- CPT-2 - CARPET SEE PLANS FOR LOCATION
- NOT IN CONTRACT - AREA OUTSIDE SCOPE OF WORK

FLOOR FINISH TRANSITIONS

- FLOOR FINISH TYPE, SEE SCHEDULE
- FLOOR FINISH TYPE, SEE SCHEDULE
- CT-1 / CPT-1 — LOCATION OF FLOOR FINISH TRANSITION
- CARPET DIRECTION

LEGEND - FINISH PLAN - WALLS

- PT-1 — WALL FINISH TYPE; WALL FINISH EXTENTS (SEE ELEVATION FOR FULL EXTENTS)
- PT-1 — WALL FINISH TYPE; WALL FINISH EXTENTS (SEE ELEVATION FOR FULL EXTENTS)
- ROOM NAME 100: PT-1 — TYPICAL WALL FINISH AT THIS ROOM, U.N.O.; WB-1 — TYPICAL BASE FINISH AT THIS ROOM, U.N.O.

KEYED NOTES - FINISH PLANS

1	ALIGN FACE OF FINISH.
2	EXISTING FLOORING TO REMAIN IN THIS ROOM.
3	FLOORING INSTALLATION PATTERN IN THIS AREA TO BE CPT-1 IN A HERRINGBONE INSTALLATION PATTERN. AREAS IN WHICH CPT-1 IS TO HAVE A DIFFERENT INSTALLATION METHOD IS SHOWN IN THE HATCH.
4	PROVIDE NEW PIN-UP MATERIAL IN THIS AREA ABOVE EXISTING COUNTERTOP AND RUN UP TO EXISTING CEILING. SEE FINISH SCHEDULE FOR SPECIFICATION INFORMATION.
5	EXISTING WOOD BASE THAT OCCURS AT ELEVATOR LOBBIES TO REMAIN. REPAINT EXISTING WOOD BASE WHERE OCCURS TO MATCH ADJACENT WALL FINISH.
6	SEE PHONE ROOM ELEVATIONS FOR PAINT INFORMATION.

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REGISTERED ARCHITECT MICHAEL BARNETT OR No. 5889 STATE OF OREGON

REVISIONS:

BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

FLOOR FINISH PLAN - LEVEL 2

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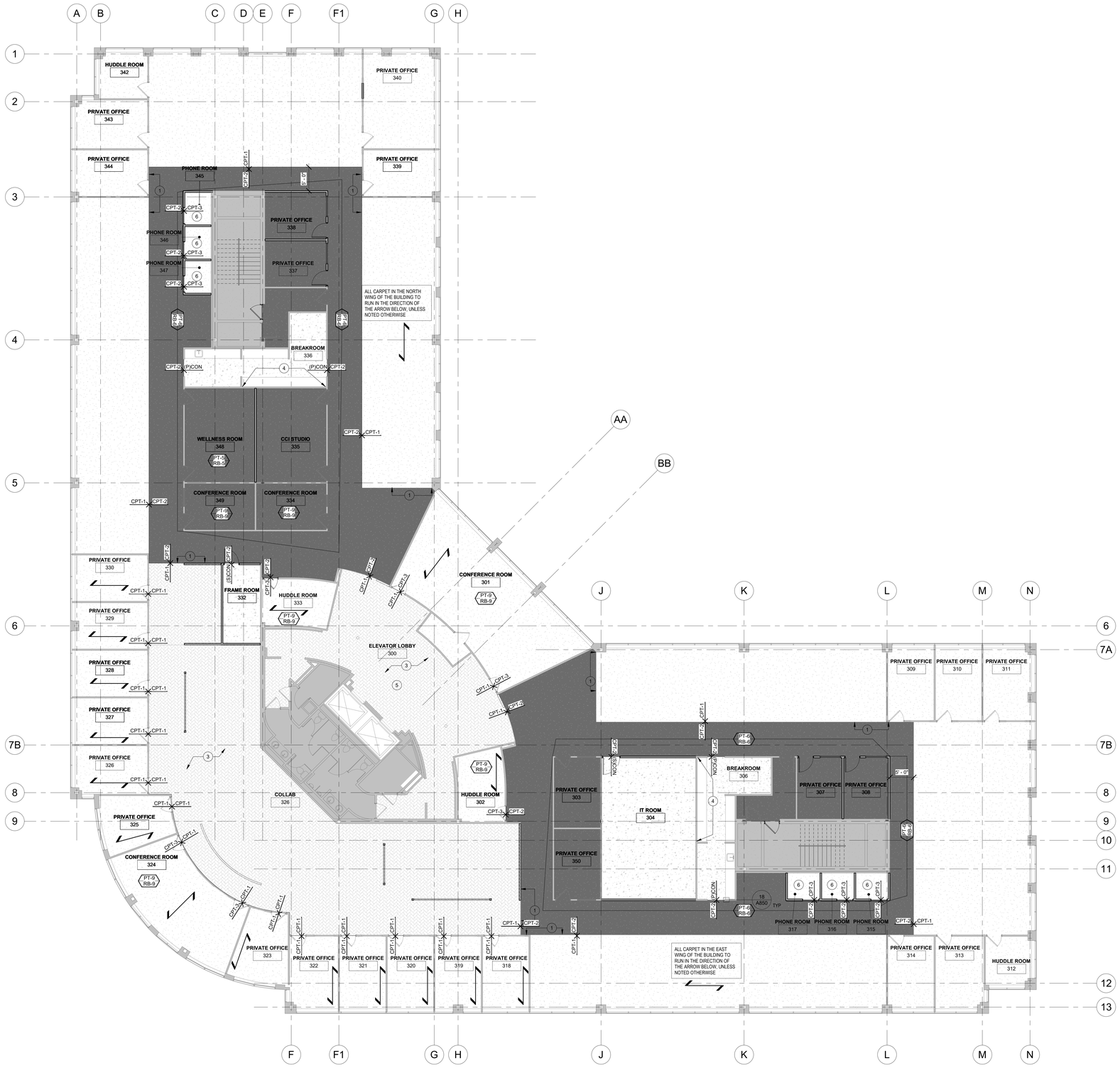

FLOOR FINISH PLAN - LEVEL 3 (1)
1/8" = 1'-0"

GENERAL NOTES - FINISH PLANS

A. REFER TO SHEET A650 FOR FINISH SCHEDULE AND MATERIAL PRODUCT INFORMATION.

B. SEE SPECIFICATIONS FOR SUBMITTAL PROCEDURES FOR REQUIREMENTS TO PROVIDE PRODUCT INFORMATION, SAMPLES, DIAGRAMS, SHOP DRAWINGS, AND/OR MOCKUPS.

C. ALL INTERIOR FINISHES TO MEET A MINIMUM CLASS C ASTM E86 RATING PER SHEET G101.

D. REFER TO SHEET A800 FOR CONDITIONS REQUIRING MOISTURE RESISTANT GYPSUM BOARD OR CEMENT BACKER BOARD.

E. REFER TO SPECIFICATIONS FOR TYPICAL FLOORING TRANSITIONS WHERE APPLICABLE.

F. PREPARE ALL SURFACES TO RECEIVE FINISHES PER MANUFACTURE'S RECOMMENDATIONS. INSTALL ALL FINISHES PER MANUFACTURER'S INSTRUCTIONS.

G. UNLESS NOTED OTHERWISE, CENTER ALL FIELD MATERIALS ON WALLS TO CREATE EVEN DISTRIBUTION OF PATTERNS. AT CERAMIC TILE WALLS, COORDINATE INSTALLATION TO ACCOMMODATE THE TILE MODULE WHERE SPECIFICALLY CALLED OUT.

H. TERMINATE ALL EXPOSED CERAMIC TILE EDGES WITH A SCHLUTER (SCHIENE) STRIP, COLOR TO BE SELECTED BY THE ARCHITECT.

I. AT PAINTED SURFACES, USE CONSISTENT INSTALLATION AND TOUCH UP METHODS TO CREATE A CONSISTENT AND UNIFORM LOOK IN APPLICATION AND TEXTURE.

J. PROVIDE THE FOLLOWING PAINT SHEENS AT THE BELOW CONDITIONS, UNLESS NOTED OTHER WISE.

WALLS:	EGGSHELL ENAMEL
CEILINGS:	FLAT
TRIM:	SEMI-GLOSS ENAMEL
WOOD/MDF:	SEMI-GLOSS ENAMEL

K. UNLESS NOTED OTHERWISE, PROVIDE A TOOLED CAULK JOINT AT ALL DISSIMILAR MATERIALS. COLOR TO BE SELECTED BY THE ARCHITECT.

L. ALL WALLS TO BE PAINTED THE GENERAL FIELD PAINT AND RECEIVE GENERAL WALL BASE UNLESS NOTED OTHERWISE.

LEGEND - FINISH PLANS

CARPET - SEE PLAN FOR TYPE

CONCRETE - (P)CON = POLISHED
OR (S)CON = SEALED
REFER TO FINISH SCHEDULE FOR INFORMATION

CPT-1 - HERRINGBONE INSTALLATION
SEE PLANS FOR LOCATION

WOM-1 - WALK OFF MAT

CPT-2 - CARPET
SEE PLANS FOR LOCATION

NOT IN CONTRACT - AREA OUTSIDE SCOPE OF WORK

FLOOR FINISH TRANSITIONS

FLOOR FINISH TYPE, SEE SCHEDULE
FLOOR FINISH TYPE, SEE SCHEDULE
CT-1 CPT-1
LOCATION OF FLOOR FINISH TRANSITION

CARPET DIRECTION

LEGEND - FINISH PLAN - WALLS

PT-1
WALL FINISH TYPE
WALL FINISH EXTENTS (SEE ELEVATION FOR FULL EXTENTS)

PT-1
WALL FINISH TYPE
WALL FINISH EXTENTS (SEE ELEVATION FOR FULL EXTENTS)

ROOM NAME
100
PT-1 — TYPICAL WALL FINISH AT THIS ROOM, U.N.O.
WB-1 — TYPICAL BASE FINISH AT THIS ROOM, U.N.O.

KEYED NOTES - FINISH PLANS

1	ALIGN FACE OF FINISH.
2	EXISTING FLOORING TO REMAIN IN THIS ROOM.
3	FLOORING INSTALLATION PATTERN IN THIS AREA TO BE CPT-1 IN A HERRINGBONE INSTALLATION PATTERN. AREAS IN WHICH CPT-1 IS TO HAVE A DIFFERENT INSTALLATION METHOD IS SHOWN IN THE HATCH.
4	PROVIDE NEW PIN-UP MATERIAL IN THIS AREA ABOVE EXISTING COUNTERTOP AND RUN UP TO EXISTING CEILING. SEE FINISH SCHEDULE FOR SPECIFICATION INFORMATION.
5	EXISTING WOOD BASE THAT OCCURS AT ELEVATOR LOBBIES TO REMAIN. REPAINT EXISTING WOOD BASE WHERE OCCURS TO MATCH ADJACENT WALL FINISH.
6	SEE PHONE ROOM ELEVATIONS FOR PAINT INFORMATION.

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REGISTERED ARCHITECT MICHAEL BARNETT OR No. 5889 STATE OF OREGON

REVISIONS:

BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

FLOOR FINISH PLAN - LEVEL 3

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FINISH SCHEDULE

NOTES: 1.) INSTALL ALL FINISHES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALL PRODUCTS MUST BE ADA COMPLIANT.
2.) ALL PRODUCTS MUST BE "OR APPROVED EQUAL"

06 00 00 - WOOD, PLASTICS & CARPENTRY

06 22 00 - FINISH CARPENTRY

WD-1:
PRODUCT: 3/4" X 3-1/2" SLAT
SPECIES: FLAT SAWN MAPLE (MATCH EXISTING)
FINISH: CLEAR COATED (MATCH EXISTING)
LOCATIONS: SEE PLANS

WD-2:
PRODUCT: WOOD PANEL
SPECIES: PLAIN SAWED MAPLE
FINISH: CLEAR COATED
LOCATIONS: SEE PLANS

WD-3:
PRODUCT: WOOD VENEER
SPECIES: PLAIN SAWED MAPLE
FINISH: CLEAR COATED
LOCATIONS: SEE PLANS

WD-4:
PRODUCT: 1.-1/2" X 5-1/2"
SPECIES: CLEAR COATED PLAIN SAWED MAPLE
FINISH: CLEAR COATED
LOCATIONS: SEE PLANS

WD-5:
PRODUCT: 1.-1/2" THICK
SPECIES: CLEAR COATED PLAIN SAWED MAPLE
FINISH: CLEAR COATED
LOCATIONS: SEE PLANS

06 41 00 - ARCHITECTURAL WOOD CASEWORK

PLAM-1
MANUFACTURER: ARBORITE
PRODUCT: PLASTIC LAMINATE
SIZE: N/A
COLOR: DUSKY GLAMOUR OAK W471LE
LOCATIONS: SEE ELEVATIONS
REP CONTACT: JOAN ASKEN
JASKEN@LAMINART.COM
425.283.2228

PLAM-2
MANUFACTURER: ARBORITE
PRODUCT: PLASTIC LAMINATE
COLOR: CORDOVA BROWN S908CA
REP CONTACT: JOAN ASKEN
JASKEN@LAMINART.COM
425.283.2228

PLAM-3
MANUFACTURER: FORMICA
PRODUCT: PLASTIC LAMINATE
COLOR: MOUSE 929-58
LOCATIONS: SEE ELEVATIONS

PLAM-4
MANUFACTURER: FORMICA
PRODUCT: PLASTIC LAMINATE
COLOR: WINTER SKY 8792-58
LOCATIONS: SEE ELEVATIONS

06 40 20 - CASEWORK HARDWARE

HD-1:
DRAWER PULL
MANUFACTURER: MOCKETT
PRODUCT: ROUND TOP DRAWER PULL DP128
SIZE: 4"
FINISH: POLISHED CHROME
LOCATION: BREAK ROOM 220 & QUIET ROOM 224

05 70 00 - DECORATIVE METAL

MTL-1
PRODUCT: POWDER COATED STEEL PANEL
SIZE: TBD
COLOR: POWDER COATED TO MATCH PT-7
FINISH: CLEAR COATED
LOCATION: RECEPTION DESK

MTL-2
MANUFACTURER: FRY REGLET
PRODUCT: Z REVEAL
COLOR: BLACK
LOCATION: PHONE ROOM BARN DOOR TRANSITIONS

08 81 00 GLASS GLAZING

GL-1
PRODUCT: BENDHEIM
STYLE: FADE GRADIENT COLORED GLASS
COLOR: WHITE
LOCATION: SEE PLANS

08 87 00 GLAZING SURFACES AT FILM

FILM-1
PRODUCT: 3M
STYLE: FASARA SH2CHML, CROSS HAIRLINE MILKY
LOCATION: SEE PLANS

09 30 00 - TILING

CT-1
MANUFACTURER: NEMO TILE
PRODUCT: METRO
COLOR: LUXE GRAY GLOSS
SIZE: 6"X6"
LOCATIONS: 2ND FLOOR BREAK ROOM
GROUT:CUSTOM BUILDING PRODUCTS - 22 SAHARA SAND
GROUT WIDTH: 1/8"

09 30 33 - CONCRETE FLOORING

CONC:
EXISTING CONCRETE FLOORING TO BE FINISHED PER MASTER SPEC.

POLISHED CONCRETE: ADD ALTERNATE FOR LOBBY 100

POLISHED CONCRETE: COFFEE BAR 108, BREAK ROOMS 205, 220, 234, 306, AND 336

SEALED CONCRETE: STORAGE ROOM 219 AND IT ROOM 304, MAIL ROOM 102, COFFEE BAR 108, AND FRAME ROOMS 225 & 332

09 65 19 - RESILIENT FLOORING & BASE

RB-1:
MANUFACTURER: FLEXCO
PRODUCT: COVE WALL BASE
SIZE: 4"
COLOR: MEDIUM GRAY 014
LOCATIONS: GENERAL WALL BASE UNLESS NOTED OTHERWISE

RB-2:
NOT USED

RB-3:
MANUFACTURER: FLEXCO
PRODUCT: COVE WALL BASE
SIZE: 4"
COLOR: GOLDENROD 096
LOCATIONS: SEE PLANS

RB-4:
MANUFACTURER: FLEXCO
PRODUCT: COVE WALL BASE
SIZE: 4"
COLOR: BLUE SHADOW 058
LOCATIONS: SEE PLANS

RB-5:
MANUFACTURER: FLEXCO
PRODUCT: COVE WALL BASE
SIZE: 4"
COLOR: PEACOCK 115
LOCATIONS: SEE PLANS

RB-6:
MANUFACTURER: ROPPE
PRODUCT: COVE WALL BASE
SIZE: 4"
COLOR: NICKEL 090
LOCATIONS: SEE PLANS

RB-7:
MANUFACTURER: TARKETT
PRODUCT: COVE WALL BASE
SIZE: 4"
COLOR: 262 DRIZZLE
LOCATIONS: SEE PLANS

RB-8:
MANUFACTURER: TARKETT
PRODUCT: COVE WALL BASE
SIZE: 4"
COLOR: 192 TIDEWATER
LOCATIONS: SEE PLANS

RB-9:
MANUFACTURER: ROPPE
PRODUCT: COVE WALL BASE
SIZE: 4"
COLOR: 169 HUNTER GREEN
LOCATIONS: SEE PLANS

RB-10:
MANUFACTURER: TARKETT
PRODUCT: COVE WALL BASE
SIZE: 4"
COLOR: 162 SOVEREIGN
LOCATIONS: SEE PLANS

09 68 00 - CARPETING

CPT-1
MANUFACTURER: INTERFACE
PRODUCT: HUMAN NATURE HN810
SIZE: 18" X 36"
COLOR: 104215 SLATE
LOCATIONS: GENERAL CARPET
INSTALLATION: PER FINISH PLAN
REP CONTACT: KARIN GILROY
KAREN.GILROY@INTERFACE.COM

CPT-2
MANUFACTURER: INTERFACE
PRODUCT: HUMAN NATURE HN850
SIZE: 18" X 36"
COLOR: 104215 SLATE
LOCATIONS: GENERAL CARPET
INSTALLATION: PER FINISH PLAN
REP CONTACT: KARIN GILROY
KAREN.GILROY@INTERFACE.COM

CPT-3
MANUFACTURER: INTERFACE
PRODUCT: HUMAN NATURE HN840
SIZE: 18" X 36"
COLOR: 104215 SLATE
LOCATIONS: GENERAL CARPET
INSTALLATION: PER FINISH PLAN
REP CONTACT: KARIN GILROY
KAREN.GILROY@INTERFACE.COM

WOM-1
MANUFACTURER: PATCRAFT
PRODUCT: 15535 CONNECTING
SIZE: 24" x 24"
COLOR: 00520 WANDER
LOCATIONS: GROUND FLOOR LOBBY
INSTALLATION: MONOLITHIC

09 51 00 - ACOUSTICAL CEILINGS

(E) ACT-1
G.C. TO PROVIDE REPLACEMENT TILE TO MATCH EXISTING CEILING TILES WHERE TILES ARE TO BE REPLACED DUE TO DAMAGE OR DEMOLITION.

(N) ACT-2
MANUFACTURER: ARMSTRONG
STYLE: ULTIMA
SIZE: 24"X48"
INSTALLATION: LAY-IN
COLOR: WHITE

09 84 00 - ACOUSTICAL WALL PANELS

AP-1
MANUFACTURER: ARMSTRONG
PRODUCT: TECTUM WALL PANEL
COLOR: WHITE
LOCATIONS: EXISTING BREAK ROOMS, SEE PLANS

09 91 00 - PAINTS AND COATINGS

ALL EXISTING DOORS ARE TO BE PAINTED UNLESS OTHERWISE NOTED. DOORS TO BE PAINTED TO MATCH ADJACENT WALL PER THE SPECIFICATIONS BELOW, UNLESS OTHERWISE NOTED.. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.

STAIRWELL DOORS ARE EXCLUDED FROM THIS SCOPE.

PT-1:
MANUFACTURER: BENJAMIN MOORE
PRODUCT: EGGSHELL AT WALLS, FLAT AT CEILING
COLOR: CLOUD WHITE OC-130
LOCATIONS: GENERAL FIELD AND CEILING PAINT

PT-2:
MANUFACTURER: BENJAMIN MOORE
PRODUCT: EGGSHELL WALLS
COLOR: KENDALL CHARCOAL HC-166
LOCATIONS: EXISTING ELEVATOR DOORS ONLY

PT-3:
MANUFACTURER: SHERWIN WILLIAMS
PRODUCT: EGGSHELL WALLS
COLOR: MARBLEHEAD GOLD HC-11
LOCATIONS: SEE PLANS

PT-4:
MANUFACTURER: BENJAMIN MOORE
PRODUCT: EGGSHELL WALLS
COLOR: CATALINA BLUE 703
LOCATIONS: SEE PLANS

PT-5:
MANUFACTURER: BENJAMIN MOORE
PRODUCT: EGGSHELL WALLS
COLOR: DEL MAR BLUE 704
LOCATIONS: SEE PLANS

PT-6:
MANUFACTURER: BENJAMIN MOORE
PRODUCT: EGGSHELL WALLS
COLOR: MT ST ANNE 1555
LOCATIONS: SEE PLANS

PT-7:
MANUFACTURER: SHERWIN WILLIAMS
PRODUCT: EGGSHELL WALLS
COLOR: MEDITERRANEAN SW7617
LOCATIONS: SEE PLANS & REVEAL COLOR AT WOOD PANEL WALL AT RECEPTION

PT-8:
MANUFACTURER: BENJAMIN MOORE
PRODUCT: EGGSHELL AT WALLS
COLOR: MILLS SPRING BLUE HC-137
LOCATIONS: PLANS

PT-9:
MANUFACTURER: BENJAMIN MOORE
PRODUCT: EGGSHELL WALLS
COLOR: LUSH AF-475
LOCATIONS: SEE PLANS

PT-10:
MANUFACTURER: BENJAMIN MOORE
PRODUCT: EGGSHELL WALLS
COLOR: CHAMBOURD AF-645
LOCATIONS: SEE PLANS

PT-11:
MANUFACTURER: BENJAMIN MOORE
PRODUCT: EGGSHELL WALLS
COLOR: FROSTED BERRY CC-8
LOCATIONS: SEE PLANS

12 36 00 - COUNTERTOPS

SS-1
MANUFACTURER: CORIAN
PRODUCT: GLACIER ICE
LOCATIONS: RECEPTION DESK

APPLIANCE AND EQUIPMENT SCHEDULE - 11 30 00 - VERIFY FINAL LOCATIONS WITH MEP DRAWINGS FOR POWER AND PLUMBING CONNECTIONS

ALL FIXTURES TO BE ADA COMPLIANT MODELS

E-01(OFO)
COPIER
MANUFACTURER: KONICA MINOLTA
PRODUCT: BIZHUB 654E
SIZE: 67"W X 32" D
LOCATION: ROOMS 102, 114, 205, 234, 306, 336

E-02(OFO)
MICROWAVE
MANUFACTURER: SHARP
PRODUCT: SMC1139FS
SIZE: 12"H X 20.3" X 14.9"D
FINISH: STAINLESS
LOCATION: ROOMS 108,114, 205, 220, 234, 306, 336

E-03(OFO)
REFRIGERATOR
MANUFACTURER: SUMMIT
PRODUCT: SCR1401LH
SIZE: 69.75"H X 23.63"W X 23.75"D
FINISH: BLACK STAINLESS
LOCATION: ROOMS 205, 220, 234, 306, 336

E-04(OFO)
REFRIGERATOR
MANUFACTURER: SUMMIT
PRODUCT: ALSTG
SIZE: 32.0" H x 23.63" W x 22.63" D
FINISH: STAINLESS
LOCATION: ROOM 108

E-05(OFO)
REFRIGERATOR
MANUFACTURER: SAMSUMG
PRODUCT: RF28R7351SG/AA
SIZE: 35 3/4" W x 70" H x 36 1/2" D
FINISH: BLACK STAINLESS
LOCATION: ROOM 114

E-06(OFO)
COFFEE MAKER
MANUFACTURER: KEURIG
PRODUCT: K-3500
SIZE: 17.4"H X 18"D X 12"W
FINISH: BLACK STAINLESS
LOCATION: ROOMS 205, 220, 234, 306, 336

E-07(OFO)
COFFEE MAKER
MANUFACTURER: KEURIG
PRODUCT: K-1500
SIZE: 12.35"H X 12.1"D X 10.5"W
FINISH: BLACK STAINLESS
LOCATION: 114

E-08(OFO)
UNDERCOUNTER REFRIGERATOR
MANUFACTURER: FRIGIDAIRE
PRODUCT: EFR180
SIZE: 18.30" D X 19.60" H X 17.51" W
COLOR: STAINLESS STEEL
LOCATION: QUIET ROOM

FEC: 10 44 00
FIRE EXTINGUISHER CABINET - MATCH EXISTING IF NEW FIRE EXTINGUISHER CABINETS ARE NEEDED
NOTES: PROVIDE AS SHOWN ON PLANS

GROUND FLOOR ELEVATOR LOBBY TO BE PAINTED BY BEAVERTON SCHOOL DISTRICT.

SECOND AND THIRD FLOOR ELEVATOR LOBBIES ARE TO BE IN THE G.C. SCOPE

TYPICAL ELEVATOR LOBBY PAINT DIAGRAM 2ND AND 3RD FLOOR
3/8" = 1'-0"

TYPICAL ELEVATOR LOBBY PAINT DIAGRAM 2ND AND 3RD FLOOR NON WOOD WALLS
3/8" = 1'-0"

GENERAL NOTES - FINISH PLANS

A. REFER TO SHEET G001 FOR COMPLETE LIST OF GENERAL NOTES.

B. REFER TO SHEET A650 FOR FINISH SCHEDULE AND MATERIAL PRODUCT INFORMATION.

C. SEE SPECIFICATIONS FOR REQUIREMENTS TO PROVIDE PRODUCT INFORMATION, SAMPLES, DIAGRAMS, SHOP DRAWINGS AND/OR MOCKUPS.

D. ALL INTERIOR FINISHES TO MEET A MINIMUM CLASS C ASTM E86 RATING PER SHEET G101.

E. REFER TO SHEET A800 FOR CONDITIONS REQUIRING MOISTURE RESISTANT GYPSUM BOARD OR CEMENT BACKER BOARD.

F. PREPARE ALL SURFACES TO RECEIVE FINISHES PER MANUFACTURE'S RECOMMENDATIONS. INSTALL ALL FINISHES PER MANUFACTURER'S INSTRUCTIONS.

G. UNLESS NOTED OTHERWISE, CENTER ALL FIELD MATERIALS ON WALLS TO CREATE EVEN DISTRIBUTION OF PATTERNS. AT CERAMIC TILE WALLS, COORDINATE INSTALLATION TO ACCOMMODATE THE TILE MODULE WHERE SPECIFICALLY CALLED OUT.

H. TERMINATE ALL EXPOSED CERAMIC TILE EDGES WITH A SCHLUTER (SCHIENE) STRIP, COLOR TO BE SELECTED BY THE ARCHITECT.

I. AT PAINTED SURFACES, USE CONSISTENT INSTALLATION AND TOUCH UP METHODS TO CREATE A CONSISTENT AND UNIFORM LOOK IN APPLICATION AND TEXTURE.

J. PROVIDE THE FOLLOWING PAINT SHEENS AT THE BELOW CONDITIONS, UNLESS NOTED OTHER WISE.

WALLS:	EGGSHELL ENAMEL
CEILINGS:	FLAT
TRIM:	SEMI-GLOSS
WOOD/MDF:	SEMI-GLOSS

K. AT FINISHED WOOD WORK, PROVIDE A MINIMUM (2) COATS OF CLEAR POLY URETHANE UNLESS OTHERWISE NOTED, TO PROVIDE A MINIMUM CLASS C ASTM E86 RATING.

L. UNLESS NOTED OTHERWISE, PROVIDE A TOOLED CAULK JOINT AT ALL DISSIMILAR MATERIALS. COLOR TO BE SELECTED BY THE ARCHITECT.

M. ALL EXISTING ELECTRICAL RECEPTACLE COVERS ARE TO BE PAINTED TO MATCH ADJACENT SURFACE WHEN ON AN ACCENT WALL OR A GRAPHICS WALL.

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REGISTERED ARCHITECT
MICHAEL BARNETT
OR
No. 5889
STATE OF OREGON

REVISIONS:

BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

FINISH & EQUIPMENT SCHEDULES & PAINT DIAGRAMS

A650

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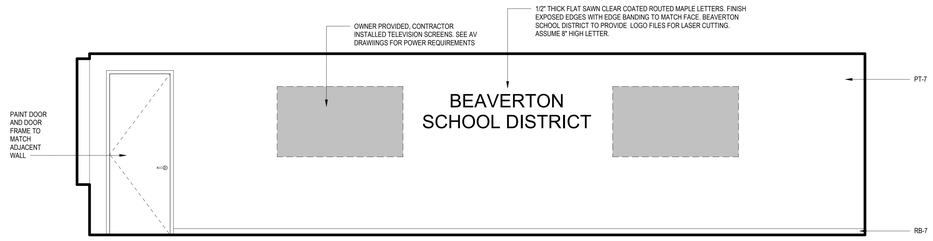
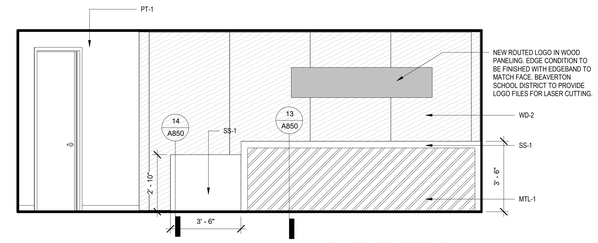
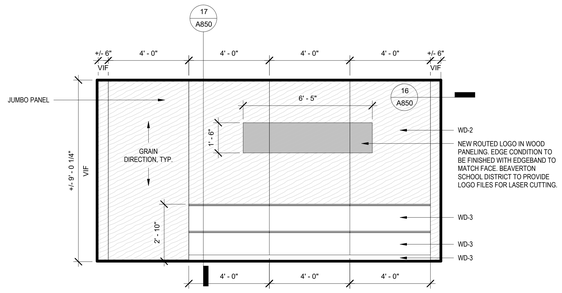


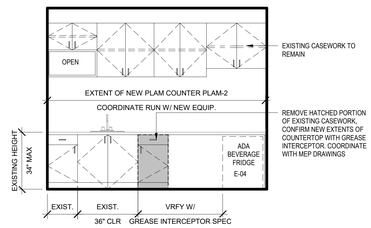
BOARD ROOM WEST 2
3/8" = 1'-0"



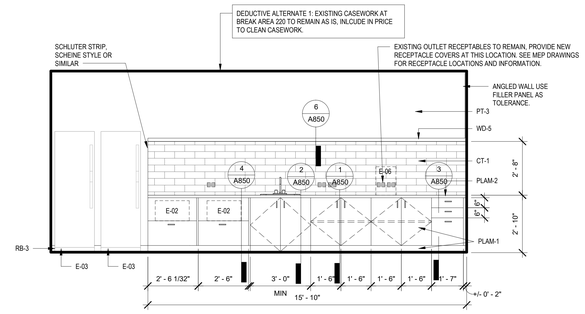
GROUND FLOOR RECEPTION 1
3/8" = 1'-0"



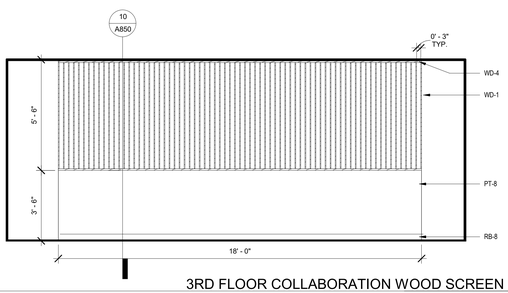
GROUND FLOOR RECEPTION CREDENZA 5
3/8" = 1'-0"



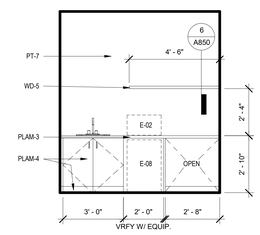
COFFEE BAR 4
3/8" = 1'-0"



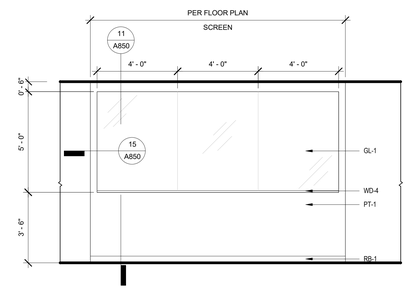
2ND FLOOR BREAK ROOM 3
3/8" = 1'-0"



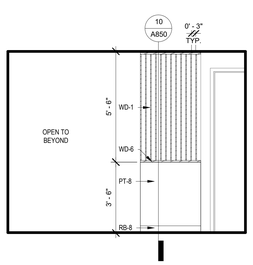
3RD FLOOR COLLABORATION WOOD SCREEN 8
3/8" = 1'-0"



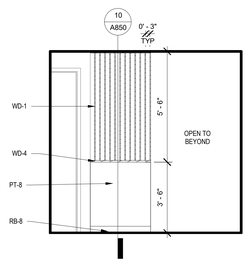
2ND FLOOR QUIET ROOM 7
3/8" = 1'-0"



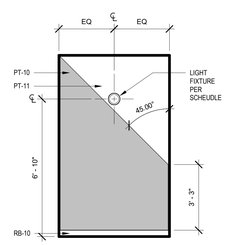
3RD FLOOR COLLABORATION SCREEN 6
3/8" = 1'-0"



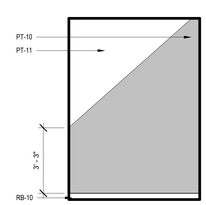
WOOD SCREEN - ELEVATOR LOBBY SIDE A 14
3/8" = 1'-0"



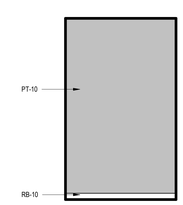
WOOD SCREEN - ELEVATOR LOBBY SIDE B 13
3/8" = 1'-0"



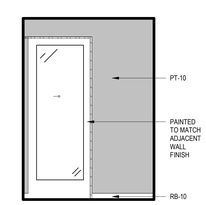
PHONE ROOM TYPICAL - NORTH 12
3/8" = 1'-0"



PHONE ROOM TYPICAL - EAST 11
3/8" = 1'-0"



PHONE ROOM TYPICAL - SOUTH 10
3/8" = 1'-0"



PHONE ROOM TYPICAL - WEST 9
3/8" = 1'-0"

GENERAL NOTES - INTERIOR ELEVATIONS

A. REFER TO SPECIFCATIONS FOR COMPLETE LIST OF GENERAL NOTES.

B. COORDINATE FINISH LOCATIONS WITH FINISH FLOOR PLANS AND THE PROJECT'S ROOM FINISH SCHEDULE.

C. NOT ALL FINISHES MAY BE TAGGED ON FINISH FLOOR PLANS OR INTERIOR ELEVATIONS. COORDINATE FINISH LOCATIONS WITH LOCATION NOTES CONTAINED WITHIN THE LEGEND - FINISH SCHEDULE.

D. REFER TO TYPICAL CASEWORK DETAILS ON SHEET A850 FOR DESIGN DIRECTION OF CASEWORK. THESE DETAILS APPLY TO ALL CASEWORK WITHIN THE PROJECT EVEN IF NOT TAGGED WITHIN INTERIOR ELEVATIONS.

E. IN GENERAL, PROVIDE PULLS AT CASEWOOK DOORS AND PULLS AT CASEWORK DRAWERS UNLESS NOTED OTHERWISE.

F. PROVIDE COMPLETE SYSTEMS FOR INSTALLATION, JOINTS AND TRANSITIONS OF ALL FINISHES INCLUDING TRANSITION AND TERMIANTION STRIPS.

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REGISTERED ARCHITECT MICHAEL BARRETT OR No. 6889 STATE OF OREGON

REVISIONS:

BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

INTERIOR ELEVATIONS

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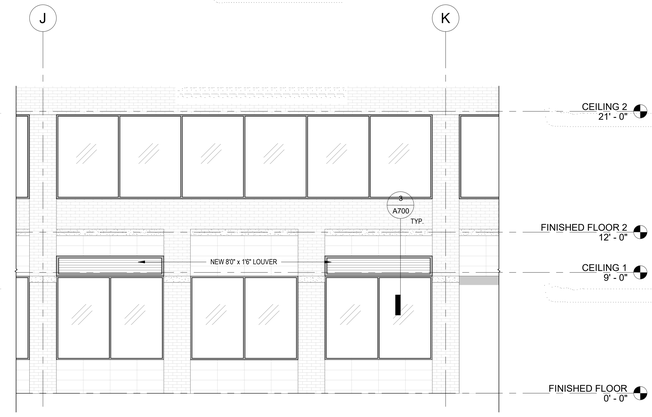
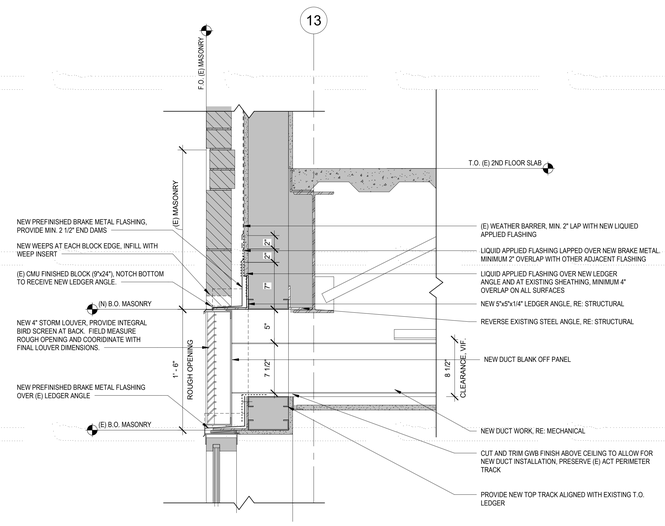


EXTERIOR ELEVATION - NEW LOUVERS 1
1/4" = 1'-0"



DETAIL - NEW LOUVER 3
1 1/2" = 1'-0"

GENERAL NOTES - BUILDING EXTERIORS

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. EXTERIOR ELEVATIONS ARE PROVIDED TO SHOW ANTICIPATED AREAS OF WORK.

B. PROJECT SCOPE LIMITED TO:
   a. REMOVAL OF EXISTING CMU VENEER TO ALLOW INSTALLATION OF (2) NEW LOUVERS
   b. MODIFCIAITON OF EXISTING STEEL CONNECTIONS AND EXTERIOR FRAMING TO CREATE NEW ROUGH OPENING (RE: STRUCTURAL)
   c. PATCH OF EXISTING AIR BARRIER FOLLOWING DEMOLITION, INCLUDING LIQUIED APPLIED FLASHING AND PREFINISHED METAL FLASHING (RE: SECTION 072500, SECTION 076000)
   d. MINOR MODIFICATIONS TO EXISTING ROOF FOR NEW MECHANICAL EQUIPMENT AND PENETRATIONS (RE: SECTION 076000)

C. FIELD MEASURE NEW ROUGH OPENINGS PRIOR TO ORDERING MECHANICAL LOUVERS (RE: SECTION 089100). MATCH LOUVER COLOR TO EXISTING WINDOW MULLION COLOR.

D. REMOVAL AND SHORING OF EXISTING MASONRY VENEER IS A MEANS AND METHOD. PROVIDE A COMPLETE INSTALLATION OF LOUVER AND STRUCTURAL MODIFICATIONS WITHIN BASE BID SCOPE.

E. MAINTAIN EXISTING TPO ROOFING WARRANTY ON ALL ROOF REPAIRS (RE: 076000). A CERTIFIED CENTIMARK CONTRACTOR IS REQUIRED.

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OR
No. 5889
STATE OF OREGON

REVISIONS:

BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

SUMMIT BUILDING
12601 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

EXTERIOR ELEVATIONS & DETAILS

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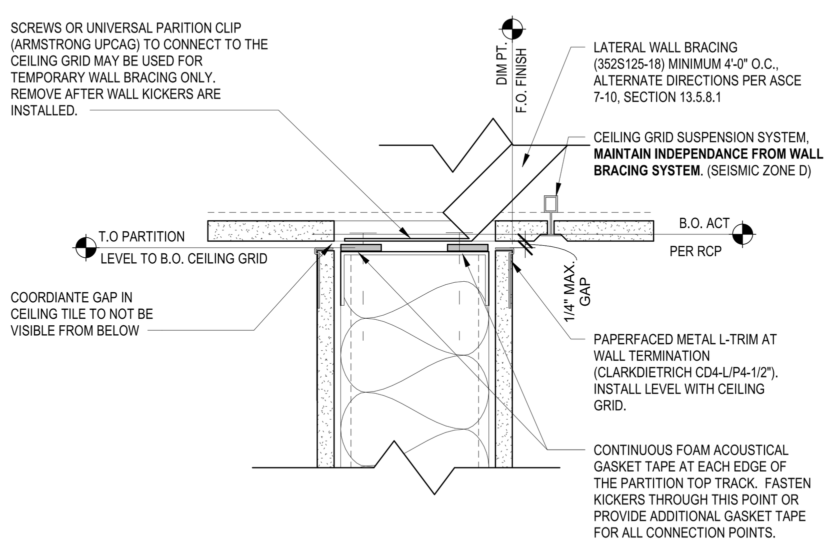


BRACED WALL AT ACT (3)
3" = 1'-0"

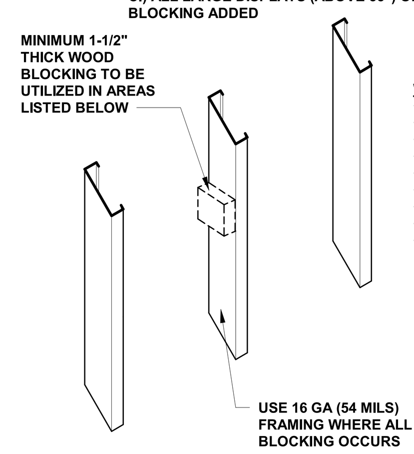
BLOCKING NOTES:

1. CONTRACTOR TO COORDINATE BACKING PLATES WITH LOCATIONS OF ALL EQUIPMENT OR DEVICES
2. EXTEND BACKING TO MINIMUM ONE STUD BEYOND EXTENT OF CABINETRY OR WALL-HUNG EQUIPMENT
3. PLACE BLOCKING AT HEIGHT TO ACCOMONDATE BOTH 30" AND 36" HIGH BASE CABINETRY
4. BLOCKING SHALL BE WOOD WITH A MINIMUM OF 1-1/2" THICKINESS AND PROVIDE ADEQUATE SUPPORT FOR ANYTHING THAT HANGS ON THE WALL OR THE CEILING.
5. COORDINATE ANY BLOCKING REQUIREMENTS WITH THE CONDITIONS LISTED BELOW. INFORM OWNER OF ANY DISCREPANCIES ONSITE.

A.) SMALL DISPLAYS (LESS THAN 55") DO NOT REQUIRE BLOCKING AT EXISTING WALLS.

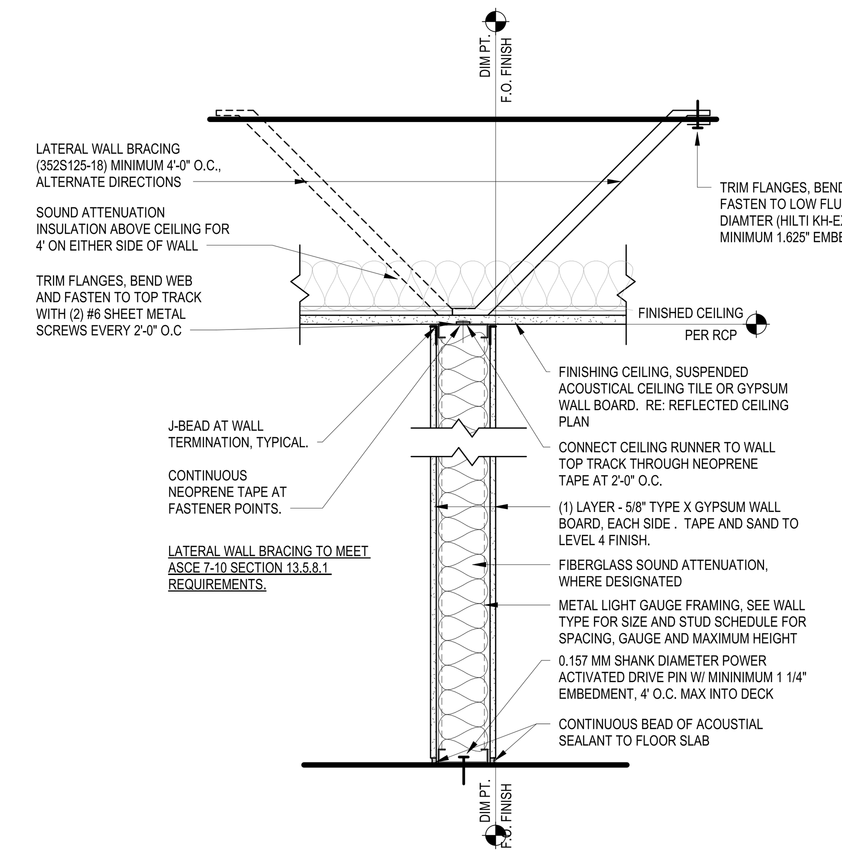
B.) ALL DISPLAYS ON NEW PARTITIONS TO HAVE BLOCKING PER STANDARD BLOCKING REQUIRMENTS, REGARDLESS OF SIZE.

C.) ALL LARGE DISPLAYS (ABOVE 55") ON EXISTING PARTITIONS TO HAVE WOOD BLOCKING ADDED

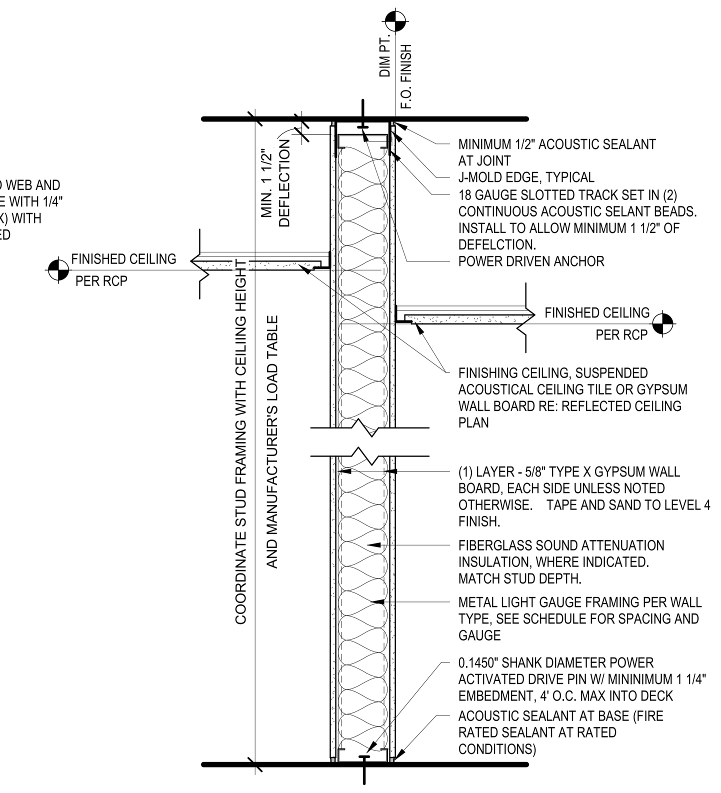


WOOD BLOCKING (USE AT):
- BASE & WALL CABINETS
- SHELVES
- VIDEO SCREENS
- SIGNAGE
- WHITE BOARDS
- FIRE EXTINGUISHER CABINETS
- ARTWORK
- BATHROOM AND KITCHEN SINKS
- ELECTRICAL FRAMING

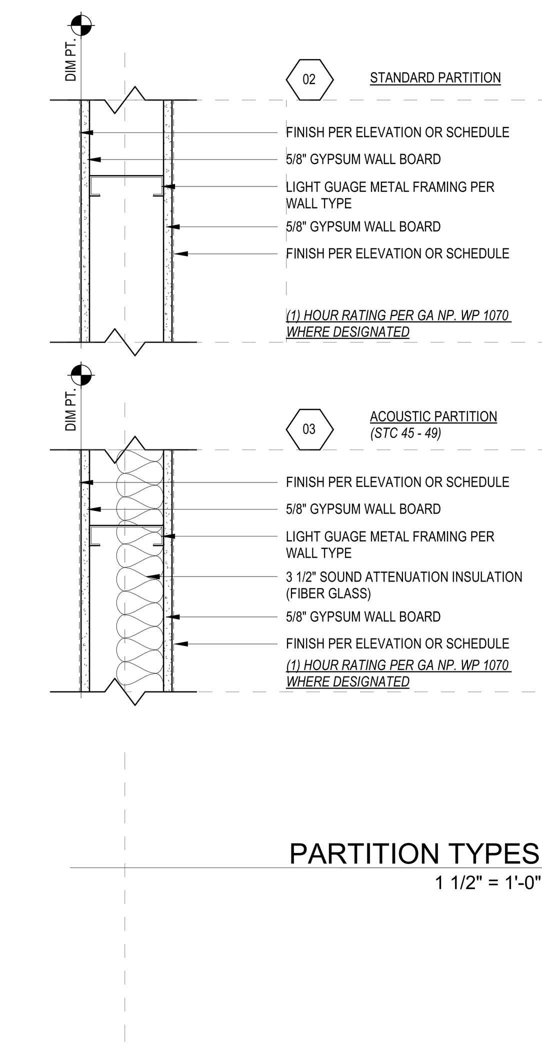
PARTITION - BLOCKING (2)
1" = 1'-0"



BRACED WALL (A)
1" = 1'-0"



COMPOSITE WALL (C)
1" = 1'-0"



PARTITION TYPES
1 1/2" = 1'-0"

GENERAL NOTES - PARTITIONS

A. REFER TO PROJECT SPECIFICATIONS FOR COMPLETE PROJECT NOTES AND REQUIREMENTS.

B. PLAN DIMENSION ARE TO THE FINISHED FACE OF PARTITION ASSEMBLY, CENTERLINE OF STRUCTURAL COLUMN, OR TO FACE OF CONCRETE OR CONCRETE MASONRY UNLESS NOTED OTHERWISE.

C. PROVIDE 5/8" GYPSUM WALL BOARD (GWB), EACH SIDE, ON LIGHT GAUAGE METAL FRAMING AT 16" O.C. AS TYPICAL PARTITION UNLESS NOTED OTHERWISE.

D. PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL DESIGNATED WET AREAS DEFINED AS 2'-0" BEYOND THE EXTENTS OF THE EDGE ALL PLUMBING FIXTURES, THE BOTTOM 2'-0" ABOVE SLAB IN RESTROOMS AND JANITORS CLOSETS AND OTHER OR AREAS PRONE TO EXPOSED WATER.

E. PROVIDE 5/8" DENSHEILD - TYPE X OR APPROVED EQUIPMENT BEHIND ALL CERAMIC TILE INSTALLATIONS.

F. SOUND ATTENUATION BLANKET TO BE 3 1/2" IN THICKNESS UNLESS OTHERWISE NOTED OR AS PRESCRIBED IN A UL RATED ASSEMBLY.

G. PROVIDE ACOUSTICAL SEALANT AT JOINTS AND PERIMETER OF ALL TYPICAL WALLS, PROVIDE FIRE RATED SEALANT AT ALL FIRE RATED WALLS.

H. MAINTAIN THE LISTED STC RATING AND ACOUSTICAL PERFORMANCE OF ALL PARTITIONS. CAULK ALL PENETRATIONS AND WHEN RETURN AIR PLENUMS ARE PROPOSED, PROVIDE AND INSTALL A STAGGERED AND LINED DUCT ELBOW.

I. SEE FIRE LIFE SAFETY (FLS) PLAN FOR LOCATIONS OF RATED ASSEMBLIES.

J. NOTIFY THE ARCHITECT IN WRITING BETWEEN DISCREPENCIES BETWEEN LISTED UL OR GA RATED ASSEMBLIES, COMPONANTS DEPICTED WITHIN THIS DRAWING SET AND ASSOCAITED STC TESTS.

K. PROVIDE LABELED GYPSUM WALL BOARD AT FIRE RATED PARTITIONS.

L. PROVIDE CONTINUOUS UL LISTED ASSEMBLIES FOR ALL CONSTRUCTION JOINTS AND THROUGH WALL PENETRATIONS MATCHING THE FIRE RESISTANT RATING OF ALL WALLS INDICATED BELOW:

M. FIRE RATED AND SMOKE ASSEMBLY PARTITIONS AND BARRIERS TO EXTENT TO THE UNDERSIDE OF STRUCTURE UNLESS NOTED OTHERWISE.

N. FRAME AROUND BEAMS AND OTHER STRUCTURAL ELEMENTS WHEN THEY OCCURE WITHIN THE SPACE OF A FIRE RATED OR ACOUSTICAL PARTITION.

O. ALL PARTITIONS ARE NON-LOAD BEARING UNLESS OTHERWISE NOTED. REFERENCE STRUCTURAL DRAWINGS FOR LOAD BEARING PARTITION ASSEMBLIES.

P. PROVIDE CONNECTIONS TO EXISTING STRUCTURE THAT ISOLATE NON-LOAD BEARING WALLS FROM STRUCTURAL MOVEMENT. PROVIDE DEFLECTION TRACKS AT THE TOPS OF ALL PARTITIONS AND SLOTTED CONNECTIONS AT INTERMEDIATE STRUCTURES.

LEGEND - FLOOR PLANS

WALL TAG	01 E A	WALL TYPE PER ASSEMBLY BRACING CONDTION STUD TYPE PER LEGEND
DOOR TAG - UNIQUE	102	DOOR TAG - REFER TO DOOR SCHEDULE
DOOR TAG - REPEATABLE	34 A	DOOR TYPE - SEE SCHEDULE DOOR WIDTH
WINDOW TAG	A	WINDOW TYPE - SEE SCHEDULE
KEY NOTE	1	KEY NOTE - SEE SCHEDULE

STUD SIZE LEGEND

A	7/8" FURRING CHANNEL
B	1 1/2" FURRING CHANNEL
C	1 5/8" METAL STUD
D	2 1/2" METAL STUD
E	3 5/8" METAL STUD
F	4" METAL STUD
G	6" METAL STUD
H	8" METAL STUD
I	2 1/2" C-H SHAFT WALL STUD
J	4" C-H SHAFT WALL STUD
K	6" C-H SHAFT WALL STUD

BRACING CONDITION

A	UNDERSIDE OF GRID
B	6" ABOVE GRID
C	FULL HEIGHT TO STRUCTURE

NON-LOADBEARING WALL FRAMING SCHEDULE[3]:

STUD SIZE	SECTION	SPACING (O.C)	MAXIMUM HEIGHT - L/240 @ 10 PSF: COMPOSITE [1]	NON-COMPOSITE [2]
2 1/2"	250S125-18	16" O.C.	10' - 0"	N/A
	250S125-18	24" O.C.	8' - 2"	N/A
	250S125-33	16" O.C.	13' - 3"	9' - 6"
	250S125-33	24" O.C.	9' - 10"	8' - 4"
3 5/8"	362S125-18	16" O.C.	11' - 5"	8' - 0"
	362S125-18	24" O.C.	9' - 4"	N/A
	362S125-33	16" O.C.	13' - 10"	12' - 6"
	362S125-33	24" O.C.	11' - 11"	10' - 2"
6"	600S125-18	16" O.C.	14' - 2"	8' - 7"
	600S125-18	24" O.C.	N/A	N/A
	600S125-33	16" O.C.	22' - 3"	13' - 10"
	600S125-33	24" O.C.	17' - 8"	12' - 1"

[1] COMPOSITE WALL CONSRUCTION REQUIRES A SINGLE LAYER OF 5/8" TYPE X GWB INSTALLED IN VERTICAL ORIENTATION TO BOTH SIDES OF THE WALL.

[2] NON-COMPOSITE WALL CONSRUCTION REQUIRES FULL BRACING EVERY 48" O.C. AT OR BELOW MAXIMUM HEIGHT.

[3] PER SSMA TABLES PUBLISHED BY SCAFCO. CONSULT TABLE FOR MAXIMUM HEIGHT SPANS FOR CONDITIONS NOT LISTED IN TABLE ABOVE.

STEEL STUD NON-BRC WALL HEADER SCHEDULE

WALL HEIGHT	STUD WIDTH	OPENING WIDTH (TOP & BOTTOM TRACKS): <=6'-0"	<=8'-0"	<=10'-0"	<=12'-0"	<=14'-0"
<=8'-0"	3 1/2" - 4"	350T125-33 T&B	350T125-33 T&B	350T125-33 T&B	350T125-33 TOP 350T125-43 BOT	350T125-33 TOP 350T125-43 BOT
	5 1/2" - 6"	550T125-33 T&B	550T125-33 T&B	550T125-33 T&B	550T125-33 T&B	550T125-43 T&B
<=10'-0"	3 1/2" - 4"	350T125-33 T&B	350T125-33 T&B	350T125-33 T&B	350T125-33 TOP 350T125-43 BOT	350T125-33 TOP 350T125-54 BOT
	5 1/2" - 6"	550T125-33 T&B	550T125-33 T&B	550T125-33 T&B	550T125-33 T&B	550T125-43 T&B
<=12'-0"	3 1/2" - 4"	350T125-33 T&B	350T125-33 T&B	350T125-33 T&B	350T125-33 TOP 350T125-43 BOT	350T125-33 TOP 350T125-54 BOT**
	5 1/2" - 6"	550T125-33 T&B	550T125-33 T&B	550T125-33 T&B	550T125-33 T&B	550T125-43 T&B*
<=14'-0"	3 1/2" - 4"	350T125-33 T&B	350T125-33 T&B	350T125-33 T&B*	350T125-33 TOP 350T125-43 BOT*	350T125-33 TOP 350T125-54 BOT**
	5 1/2" - 6"	550T125-33 T&B	550T125-33 T&B	550T125-33 T&B*	550T125-33 T&B*	550T125-43 T&B**

NOTES:
[1] HEADER HEIGHT ASSUMED >= 6'-0" AND <= 10'-0"
[2] OPENINGS ASSUMED WITH 4-WAY PRESSURE DISTRIBUTION
[3] PROVIDE #8 SMS AT 12" OC FROM TRACKS TO S-SECTIONS AS SHOWN
[4] VERTICAL S-SECTIONS TO BE DBL 400S125-33 MIN EXCEPT WHERE DENOTED (*) USE DBL 400S162-43 MIN AND (**) USE DBL 400S162-54 MIN

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REGISTERED ARCHITECT
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OR
No. 5889
STATE OF OREGON

REVISIONS:

BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

TYPICAL PARTITION DETAILS

A800

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SUSPENSION SYSTEMS FOR SUSPENDED CEILINGS - SEISMIC DESIGN CATEGORIES D, E, & F

FROM THE NORTH WEST WALL AND CEILING BUREAU - TECHNICAL DOCUMENT 401: SUSPENDED CEILINGS

GENERAL RECOMMENDATIONS (NWCB TECHNICAL DOCUMENT 401)

1. REFERENCES SOURCES PER HIERARCHY: 2015 INTERNATIONAL BUILDING CODE (IBC), AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7-16), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM C 635, ASTM C 636, ASTM E 580/E 580 M), AND CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION (CISCA)
2. PARTITIONS THAT ARE TIED TO THE CEILING AND ALL PARTITIONS GREATER THAN 6 FT IN HEIGHT SHALL BE LATERALLY BRACED TO THE STRUCTURE. BRACING SHALL BE INDEPENDENT OF THE CEILING SPLAY BRACING SYSTEM (ASCE 7-16 SECTION 13.5.8.1)
3. ALL MAIN BEAMS TO BE HEAVY DUTY (HD) (ASTM E580 SECTION 5.1.1)
4. CEILINGS LESS THAN 144 SQUARE FEET AND SURROUNDED BY WALLS CONNECTED TO THE STRUCTURE ABOVE ARE EXEMPT FROM THE SEISMIC DESIGN REQUIREMENTS (ASTM E580 SECTION 1.4)
5. ALL WIRE TIES TO BE THREE TIGHT TURNS AROUND THEMSELVES WITHIN THREE INCHES. TWELVE GAUGE HANGER WRITE SPACED 4 FT ON CENTER (ASTM C636 SECTION 2.3.4)
6. CHANGES IN CEILING PLANES WILL REQUIRE POSITIVE BRACING (ASTM E580 SECTION 5.2.8.6)

LATERAL-FORCE BRACING

1. CEILINGS CONSTRUCTED OF SCREW OR NAIL-ATTACHED GYPSUM BOARD ON ONE LEVEL THAT ARE SURROUNDED BY AND CONNECTED TO WALLS OR SOFFITS THAT ARE LATERALLY BRACED TO THE STRUCTURE ABOVE ARE EXEMPT FROM SEISMIC DESIGN REQUIREMENTS (ASCE 7-16 SECTION 13.5)
2. CEILING AREAS OF 1,000 SF OR LESS SHALL BE EXEMPT FROM LATERAL-FORCE BRACING REQUIREMENTS (ASTM E580 SECTION 1.6)
3. LATERAL-FORCE BRACING IS THE USE OF VERTICAL STRUTS (COMPRESSION POSTS) AND SPLAY WIRES
4. LATERAL FORCE BRACING SHALL BE 12 FT ON CENTER (MAXIMUM) AND BEING NO FARTHER THAN 6 FT FROM WALLS (ASTM E580 SECTION 5.2.8.2)
5. SEISMIC SPLAY WIRES ARE TO BE FOUR 12-GAUGE WIRES ATTACHED TO THE MAIN BEAM. WIRES ARE ARRAYED 90 DEGREES FROM EACH OTHER AND AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. (ASTM E580 SECTION 5.2.8.2)
6. SEISMIC SPLAY WIRES SHALL BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A MINIMUM DESIGN LOAD OF 200 LBS OR THE ACTUAL DESIGN LOAD, WITH A SAFETY FACTOR OF 2, WHICH EVER IS GREATER. (CISCA ZONES 3-4)
7. POWER-ACTUATED FASTENERS IN CONCRETE OR STEEL SHALL NOT BE USED FOR SUSTAINED TENSION LOADS OR FOR BRACE APPLICATIONS IN SEISMIC DESIGN CATEGORIES D, E, OR F UNLESS APPROVED FOR SEISMIC LOADING. POWER-ACTUATED FASTENERS IN MASONRY ARE NOT PERMITTED UNLESS APPROVED FOR SEISMIC LOADING.
8. SPLAY WIRES ARE TO BE WITHIN 2 INCHES OF THE CONNECTION OF THE VERTICAL STRUCT TO THE SUSPENDED CEILING. (ASTM 580 SECTION 5.2.8.2)
9. RIGID BRACING MAY BE USED IN LIEU OF SPLAY WIRES. (ASTM E580 SECTION 5.2.8.4)
10. VERTICAL STRUTS MUST BE POSITIVELY ATTACHED TO THE SUSPENSION SYSTEMS AND STRUCTURE ABOVE (ASTM E580 SECTION 5.2.8.2)
11. THE VERTICAL STRUT REQUIRED TO HAVE A HORIZONTAL FLANGE OF 2" MINIMUM. ONE END OF THE CEILING (ASTM E580 ...)

WALL MOLDINGS

1. CEILING GRID SHALL BE ATTACHED TO THE WALL MOLDING, AND THE OTHER END SHALL HAVE A 3/4" CLEARANCE FROM THE WALL AND FREE TO SLIDE (ASTM E580 SECTION 5.2.2, 5.2.3)
2. WHERE SUBSTANTIATING DOCUMENTATION HAS BEEN PROVIDED TO THE LOCAL JURISDICTION, PERIMETER CLIPS MAY BE USED TO SATISFY THE REQUIREMENTS FOR THE 2" CLOSURE ANGLE. (STATE OF OREGON, BCD)
3. PERIMETER SUPPORTING CLIPS SHALL BE ATTACHED TO THE SUPPORTING CLOSURE ANGLE OR CHANNEL WITH A MINIMUM OF TWO SCREWS PER CLIP AND SHALL BE INSTALLED AROUND THE ENTIRE CEILING PERIMETER (ASCE 7-16, SECTION 13.4.6.2.2A)
4. THE GRID SHALL BE ATTACHED TO TWO ADJACENT WALLS (POP RIVETS OR APPROVED METHOD). SOFFITS EXTENDING TO A POINT AT LEAST LEVEL WITH THE BOTTOM PLAN OF THE GRID AND INDEPENDENTLY SUPPORTED AND LATERALLY BRACED TO THE STRUCTURE ARE DEEMED EQUIVALENT TO WALLS (ASTM E580, SECTION 5.2.3)
5. THE DEAD LOAD AND LATERAL FORCES APPROPRIATE FOR THE SEISMIC CATEGORY (ASTM E580 SECTION 5.2.7.4)

SPREADER BARS

1. TERMINAL ENDS OF MAIN RUNNERS AND CROSS MEMBERS SHALL BE TIED TOGETHER OR HAVE SOME OTHER APPROVED MEANS TO PREVENT THEIR SPREADING (ASTM E580, SECTION 5.2.4)
2. SPREADER BARS ARE NOT REQUIRED AT PERIMETERS WHERE RUNNERS ARE ATTACHED DIRECTLY TO CLOSURE ANGLES.
3. SPREADER BARS ARE NOT REQUIRED IF A 90 DEGREE INTERSECTING CROSS OR MAIN IS WITHIN 8" OF THE PERIMETER WALL.
4. WHERE SUBSTANTIATING DOCUMENTATION HAS BEEN PROVIDED TO THE LOCAL JURISDICTION, PERIMETER CLIPS MAY BE USED TO SATISFY THE REQUIREMENTS FOR SPREADER BARS. (STATE OF OREGON, BCD)

HANGER (SUSPENSION) WIRES

1. HANGER AND PERIMETER WIRES MUST BE PLUMB WITHIN 1:6 UNLESS COUNTER SLOPING WIRES ARE PROVIDED (ASTM C646 SECTION 2.1.4)
2. HANGER WIRES SHALL BE 12-GAUGE AND SPACED 4' ON CENTER (ASTM C636 SECTION 2.1.6)
3. ANY CONNECTION DEVICE AT THE SUPPORTING CONSTRUCTION SHALL BE CAPABLE OF CARRYING NOT LESS THAN 100 LB (CISCA ZONES 3-4, ASTM E580 SECTION 5.2.7.1)
4. POWDER ACTUATED FASTENERS (PAFS) ARE AN APPROVED METHOD OF ATTACHMENT FOR HANGER WIRES (ASCE 7-16 13.4.5 EXCEPTION 1 & 2)
5. TERMINAL ENDS OF EACH MAIN BEAM AND CROSS TEE MUST BE SUPPORTED WITHIN 8 INCHES OF EACH WALL WITH A PERIMETER WIRE OR APPROVED WALL SUPPORT (ASTM E580 SECTION 5.2.6)
6. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. A TRAPEZE OR EQUIVALENT DEVICE SHALL BE USED WHERE OBSTRUCTIONS PRECLUDE DIRECT SUSPENSION. TRAPEZE SUSPENSIONS SHALL BE SIZED TO RESIST THE DEAD LOAD AND LATERAL FORCES APPROPRIATE FOR THE SEISMIC CATEGORY (ASTM E580 SECTION 5.2.7.4)

ELECTRICAL FIXTURES

1. LIGHT FIXTURES WEIGHTING LESS THAN 10 LBS SHALL HAVE ONE 12-GAUGE HANGER WIRE CONNECTED FROM THE FIXTURE TO THE STRUCTURE ABOVE. THIS WIRE MAY BE SLACK (ASTM E580, SECTION 5.3.4)
2. LIGHT FIXTURES WEIGHING MORE THAN 10 LBS AND LESS THAN 56 LBS SHALL HAVE TWO 12-GAUGE WIRES ATTACHED AT OPPOSING CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK (ASTM E580, SECTION 5.3.5)
3. LIGHT FIXTURES WEIGHING MORE THAN 56 LBS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE THE APPROVED LIGHT FIXTURE (ASTM E580, SECTION 5.4.6)
4. PENDANT-HUNG FIXTURES SHALL BE DIRECTLY SUPPORTED FROM THE STRUCTURE ABOVE USING A 9-GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FRO DIRECT SUPPORT (ASTM E580, SECTION 5.3.7)

ELECTRICAL FIXTURES

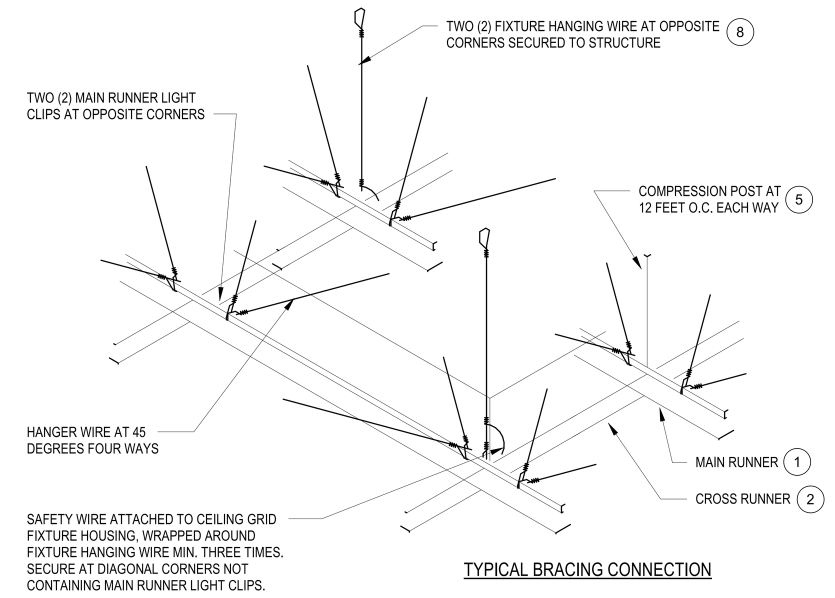
1. TERMINALS OR SERVICES WEIGHING LESS THAN 20 LBS SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION MAIN RUNNERS OR TO CROSS RUNNERS THAT HAVE THE SAME CARRYING CAPACITY AS THE MAIN RUNNERS (ASTM E580 SECTION 5.4.1)
2. TERMINALS OR SERVICES WEIGHING 20 LBS BUT NOT MORE THAN 56 LBS SHALL HAVE, IN ADDITIONAL TO 5.4.1, TWO 12-GAUGE WIRES CONNECTING THEM TO THE CEILING SYSTEM HANGERS OR THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK. (ASTM E580 SECTION 5.4.2)
3. TERMINALS OR SERVICES WEIGHING MORE THAN 56 LBS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS (ASTM E580 SECTION 5.4.3)

SEISMIC SEPARATION JOINTS:

1. ALL CONTINUOUS CEILING AREAS EXCEEDING 2,500 SF SHALL HAVE A SEISMIC SEPARATION JOINT, BULKHEAD BRACED TO THE STRUCTURE OR FULL-HEIGHT PARTITION THAT BREAKS THE CEILING INTO AREAS OF NO MORE THAN 2,500 SF AND A RATION OF THE LONG TO SHORT DIMENSION LESS THAN OR EQUAL TO TO FOUR. EACH AREA SHALL BE CAPABLE OF ALLOWING + OR - 3/4 INCH AXIAL MOVEMENT. AREAS SURROUNDED BY BULKHEADS OR FULL HEIGHT PARTITIONS SHALL BE PROVIDED WITH CLOSURE ANGLES. EACH AREA WITH A SEISMIC SEPARATION JOINT, BULKHEAD OR FULL-HEIGHT PARTITION SHALL HAVE HORIZONTAL BRACING OR RESTRAINTS (ASCE 7-16 SECTION 13.5.6.2.2B, ASTM E580 SECTION 5.2.9.1)

SPRINKLERS

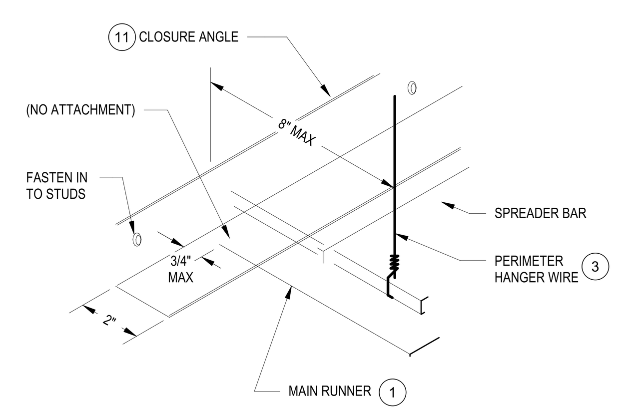
1. FOR CEILINGS WITHOUT RIGID BRACING, SPRINKLER HEAD PENETRATIONS SHALL HAVE A 2 INCH OVERSIZE RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF AT LEAST ONE INCH IN ALL HORIZONTAL DIRECTIONS. FLEXIBLE HEAD DESIGN THAT CAN ACCOMMODATE 1 INCH FREE MOVEMENT SHALL BE PERMITTED AS AN ALTERNATE (ASTM E580 SECTION 5.2.8.5)
2. HANGER WIRES SHALL BE 12-GAUGE AND SPACED 4' ON CENTER (ASTM C636 SECTION 2.1.6)



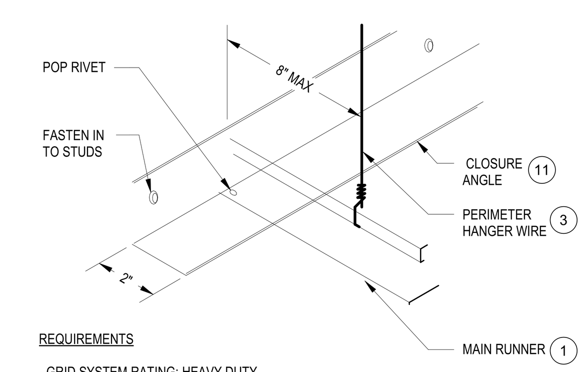
TYPICAL BRACING CONNECTION

NOTE:
REQUIREMENTS ARE FOR LIGHT FIXTURES WEIGHTING 56 LBS OR LESS. LIGHT FIXTURES WEIGHING MORE THAN 56 LBS TO BE INDEPENDENTLY SUPPORTED FROM STRUCTURE

TYPICAL LIGHT FIXTURE BRACING (6)
1 1/2" = 1'-0"



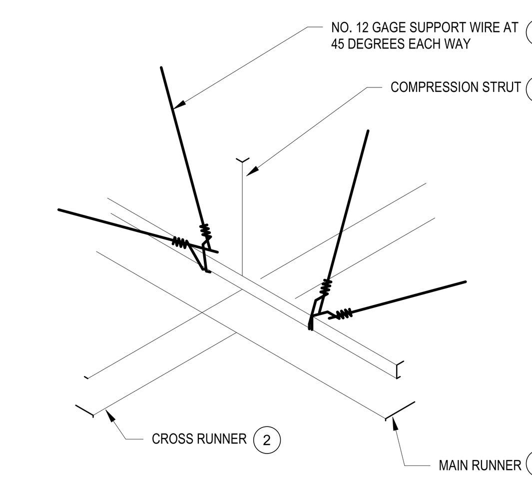
TYPICAL SLIP CONNECTION (5)
3" = 1'-0"



REQUIREMENTS

- GRID SYSTEM RATING: HEAVY DUTY
- CLOSURE ANGLE: 2 INCHES
- ATTACH GRID TO CLOSURE ANGLE ON TWO ADJACENT WALLS WITH POP RIVETS
- PROVIDE 3/4" INCH CLEARANCE FROM CLOSURE ANGLE TO MAIN RUNNER AT PERIMETER AT UNATTACHED WALLS
- SPREADER BARS PREVENT SPREAD OF MAIN RUNNERS AND CROSS RUNNERS AT UNATTACHED CONDITIONS
- LATERAL BRACING
- PERIMETER SUPPORT HANGER WIRE

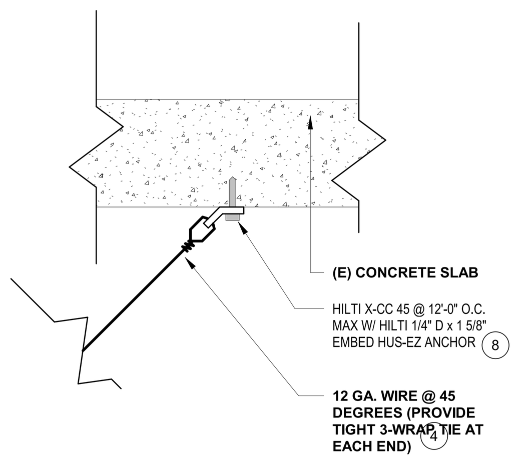
TYPICAL ATTACHED CONNECTION (4)
3" = 1'-0"



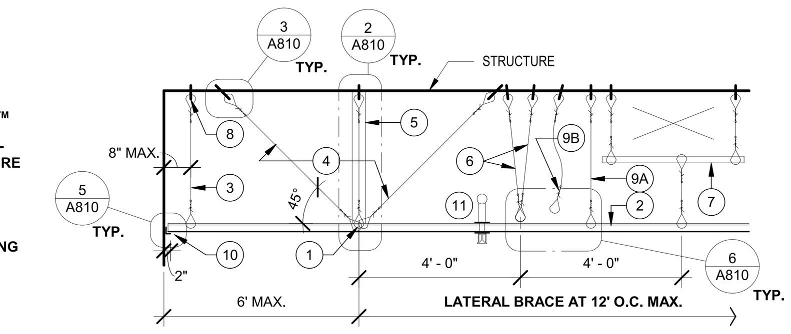
MAXIMUM RECOMENDED LENGTHS FOR VERTICAL STRUTS

EMT CONDUIT	
1/2" EMT CONDUIT 3/4" EMT CONDUIT 1" EMT CONDUIT	UP TO 5'-10" UP TO 7'-8" UP TO 9'-9"
METAL STUD	
SINGLE 1-5/8" METAL STUD (20 GAUGE) BACK TO BACK 1-5/8" METAL STUD (20 GAUGE) SINGLE 2-1/2" METAL STUD (20 GAUGE) BACK TO BACK 2-1/2" METAL STUD (25 GAUGE)	UP TO 12' UP TO 15' UP TO 13'-6" UP TO 15'

TYPICAL SUPPORT (2)
3" = 1'-0"



TYPICAL WIRE ATTACHEMENT (3)
3" = 1'-0"



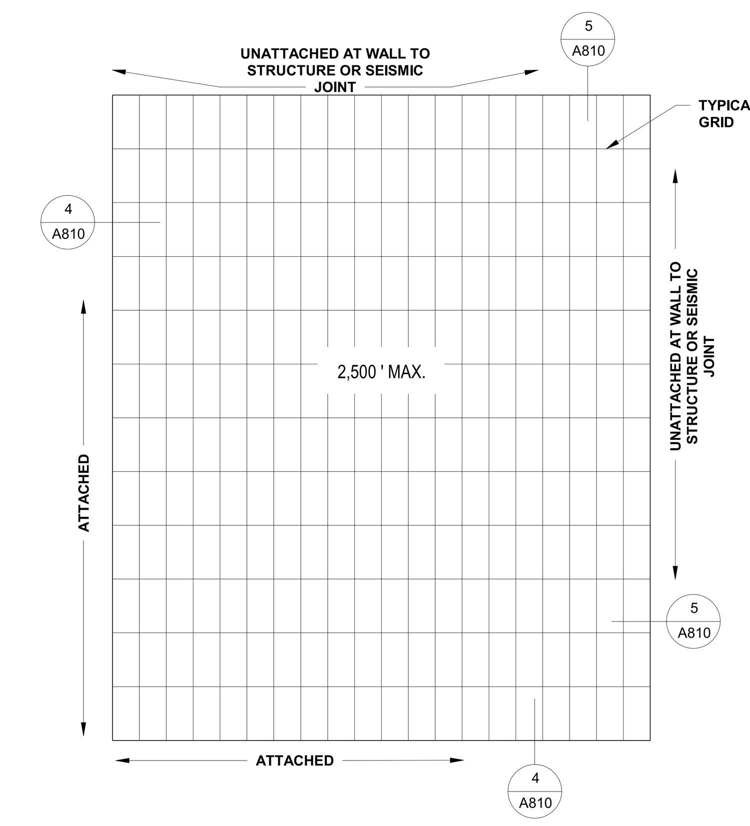
GRID SYSTEMS REQUIREMENTS:

- GRID SYSTEM RATING: HEAVY DUTY.

DESIGN REQUIREMENTS: CEILING MUST BE DESIGNED PER 2012 INTERNATIONAL BUILDING CODE AND ASCE 7-10

INSTALLATION:

1. MAIN RUNNERS 4 FEET O.C., SUPPORTED WITH NO. 12 GA. WIRES AT 4 FEET O.C. (OR NO. 10 GA. WIRES AT 5 FEET O.C.) HANGER ATTACHMENT TO BE DESIGNED TO SUPPORT NOT LESS THAN 200 POUNDS.
2. CROSS RUNNERS: RUNNERS SUPPORTED BY MAIN RUNNERS AND CAPABLE OF CARRYING DESIGN LOAD WITH DEFLECTION EQUAL TO 1/360 OF ITS SPAN OR LESS.
3. HANGER WIRE SYSTEM TO BEGIN WITHIN 8 INCHES OF PERIMETER WALL.
4. GRID LATERAL FORCE BRACING: BEGIN WITHIN 6 FEET OF PERIMETER AND WITHIN 2 INCHES OF CROSS RUNNER INTERSECTION (A) FOUR(4) NO. 12 GA. WIRES SECURED TO MAIN RUNNER AND SPLAYED 90 DEGREES FROM EACH OTHER IN PLAN AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM CEILING PLANE. (B) BRACE AT 12 FEET O.C. EACH WAY.
5. COMPRESSION STRUT AT EACH LATERAL GRID BRACING LOCATION. STRUT TO BE ADEQUATE TO RESIST VERTICAL FORCE COMPONENT INDUCED BY BRACING WIRES, SPACED 12 FEET ON CENTER IN BOTH DIRECTIONS. STRUT TO BE COMPATIBLE WITH SUSPENSION SYSTEM.
6. SYSTEM HANGERS MORE THAN 1:6 OUT OF PLUMP, PROVIDE COUNTER SLOPE HANGERS.
7. WHERE HANGER WIRES ARE NOT POSSIBLE DUE TO OBSTRUCTIONS, PROVIDE TRAPEZE OR EQUIVALENT DEVICE. TRAPEZE SUSPENSION FOR SPANS EXCEEDING 48 INCHES TO BE MINIMUM OF BACK-TO-BACK 1-1/4 INCH COLD ROLLED CHANNELS.
8. EACH HANGER WIRE ANCHOR TO STRUCTURE CAPABLE OF CARRYING 100 POUNDS MINIMUM.
9. LIGHT FIXTURE SUPPORT: DETAIL 6 / A810
   - A. WITH SUSPENSION SYSTEMS, NO. 12 GA. HANGERS TO BE ATTACHED TO GRID MEMBERS WITHIN 3 INCHES OF EACH CORNER OF EACH FIXTURE - TANDEM FIXTURES MAY USE COMMON WIRES.
   - B. LIGHT FIXTURES WEIGHING LESS THAN 56 LBS. REQUIRE (2)-NO. 12 GA. SLACK WIRES FROM FIXTURE HOUSING TO STRUCTURE ABOVE.
   - C. LIGHT FIXTURES IN EXCESS OF 55 LBS. TO BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE, WIRES MUST BE TAUT.
   - D. LIGHT FIXTURES TO BE POSITIVELY ATTACHED TO GRID SYSTEM. ATTACHMENT DEVICE TO CARRY 100 PERCENT OF LIGHT FIXTURE WEIGHT ACTING IN ANY DIRECTION.
10. 2 INCH CLOSURE ANGLE AT PERIMETER OF EACH 2,500 SF SUSPENDED CEILING SYSTEM, (2) SIDES TO BE ATTACHED TO ADJACENT WALLS, (2) OPPOSITE ADJACENT SIDES TO BE UNATTACHED PER DETAIL 5 / A810
11. WHERE SPRINKLER HEADS AND OTHER PENETRATIONS OCCUR, PROVIDE 2 INCH OVERSIZED ESCUTCHEON OR ADAPTER TO ALLOW AT LEAST 1 INCH MOVEMENT IN ALL HORIZONTAL DIRECTIONS, OR PROVIDE STANDARD ESCUTCHEON AND PENETRATIONS WITH FLEXIBLE HEAD CONNECTION.



TYPICAL SUSPENDED AREA (1)
1/8" = 1'-0"

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REGISTERED ARCHITECT MICHAEL BARRETT OR No. 5889 STATE OF OREGON

REVISIONS:

BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

TYPICAL SUSPENDED CEILING DETAILS

A810

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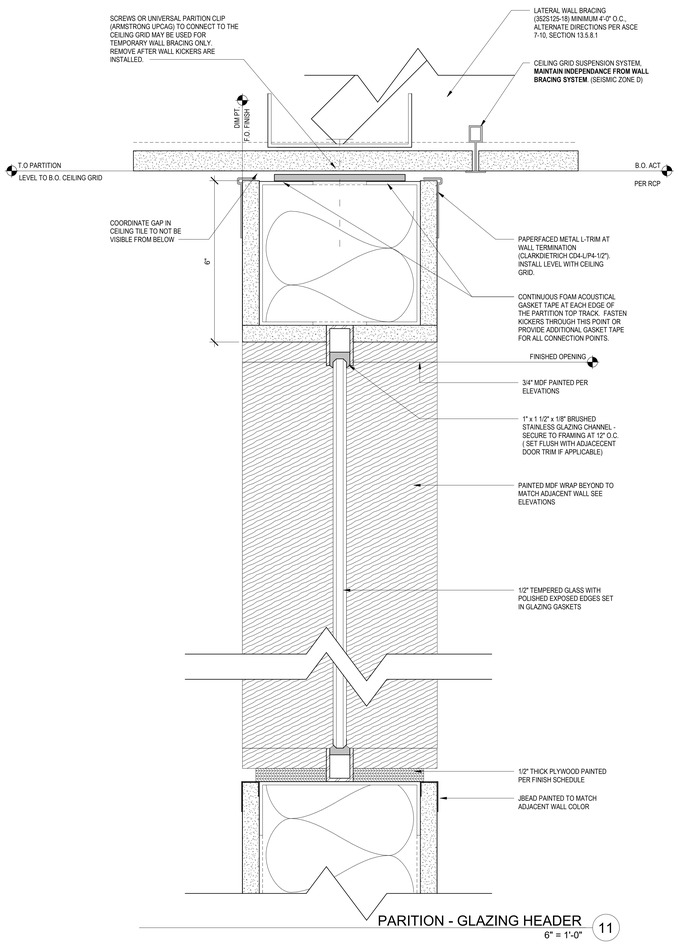
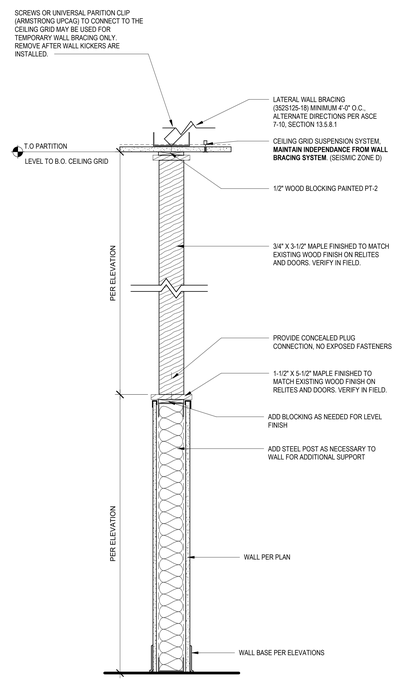
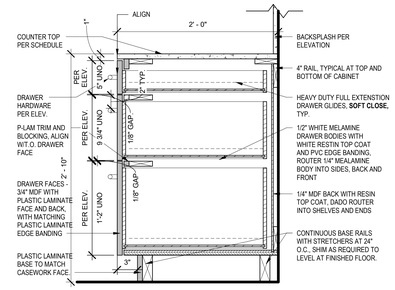


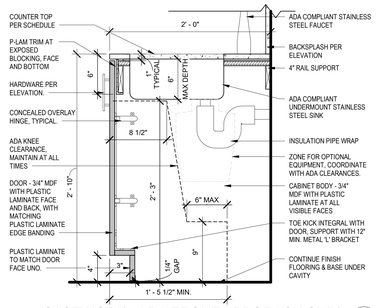
PARITION - GLAZING HEADER 11
6" = 1'-0"



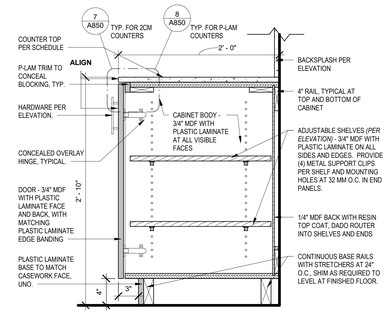
COLLABORATION - WOOD SCREEN 10
1 1/2" = 1'-0"



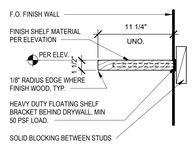
CASEWORK -LOWER W/DRAWERS 3
1 1/2" = 1'-0"



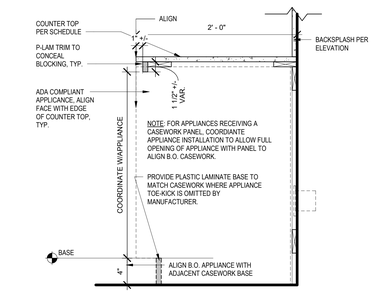
CASEWORK - ADA FRONT APPORACH SINK 2
1 1/2" = 1'-0"



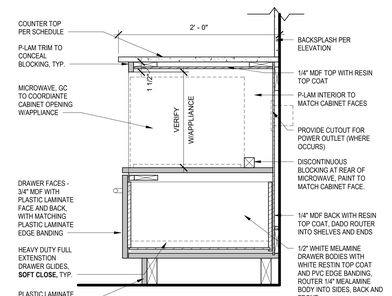
CASEWORK - TYPICAL LOWER 1
1 1/2" = 1'-0"



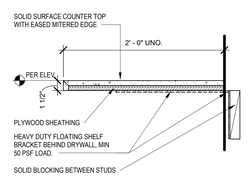
FLOATING - SHELVES 6
1 1/2" = 1'-0"



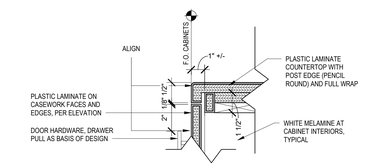
CASEWORK - APPLIANCE 5
1 1/2" = 1'-0"



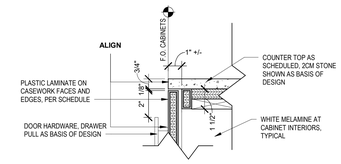
CASEWORK - MICROWAVE 4
1 1/2" = 1'-0"



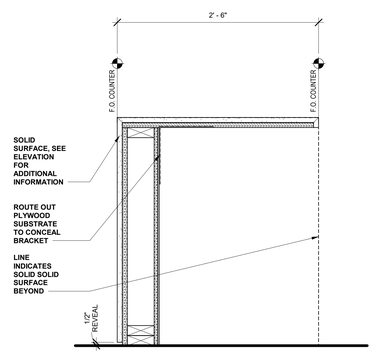
FLOATING - COUNTER TOP 9
1 1/2" = 1'-0"



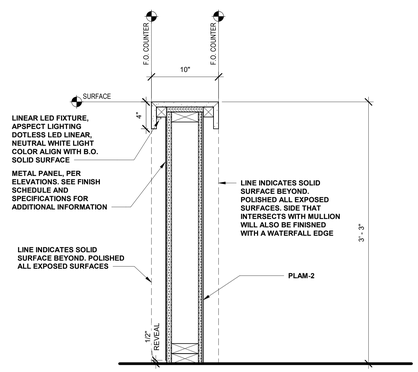
CASEWORK - P-LAM COUNTNERTOP DETAIL 8
3" = 1'-0"



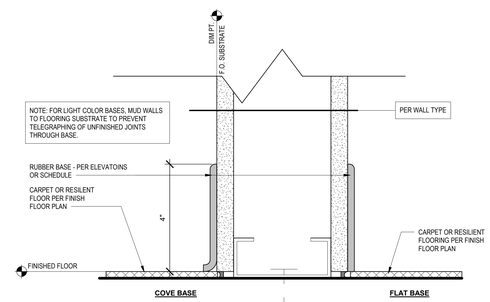
CASEWORK - 2 CM COUNTERTOP DETAIL 7
3" = 1'-0"



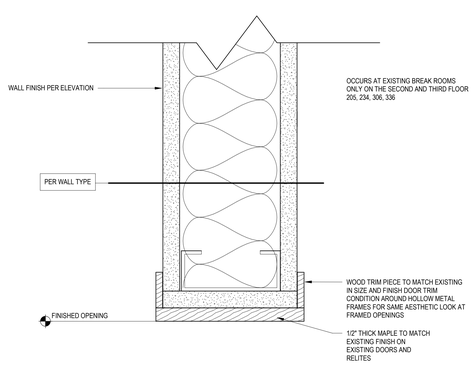
RECEPTION - TRANSACTION 14
1 1/2" = 1'-0"



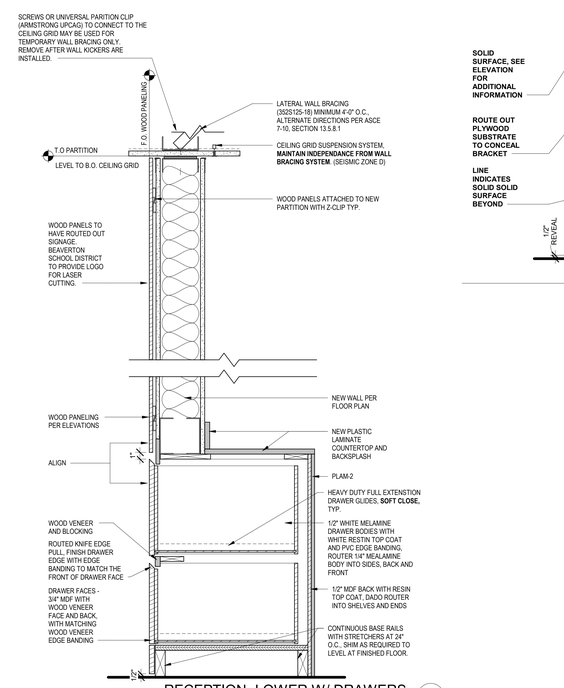
RECEPTION - DESK 13
1 1/2" = 1'-0"



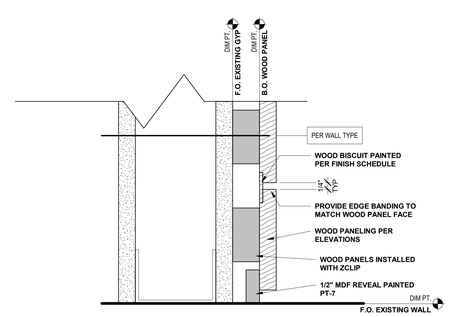
WALL BASE - RUBBER BASE 12
6" = 1'-0"



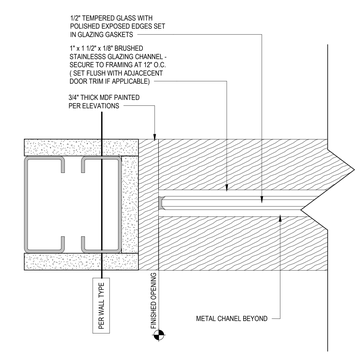
OPENING - EXISTING BREAK ROOMS 18
6" = 1'-0"



RECEPTION -LOWER W/ DRAWERS 17
1 1/2" = 1'-0"



RECEPTION - WOOD PANELING 16
6" = 1'-0"



PARTITION - GLAZING JAMB 15
6" = 1'-0"

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REGISTERED ARCHITECT
MICHAEL BARNETT
OR
No. 6889
STATE OF OREGON

REVISIONS:

BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

TYPICAL INTERIOR DETAILS

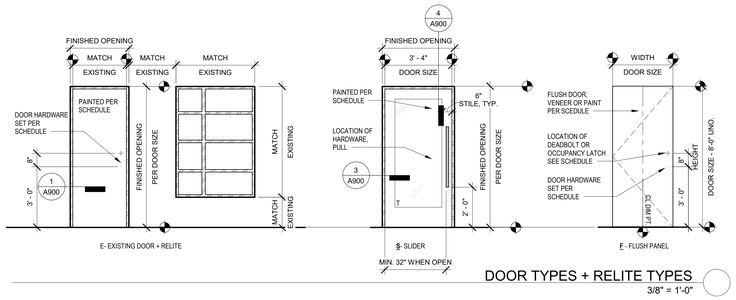
A850

2/18/2022 12:44:08 PM

DOOR SCHEDULE

DOOR MARK	LOCATION FROM ROOM	FINISHED SIZE WIDTH	FINISHED SIZE HEIGHT	FRAME FIRE RATING	FRAME MATERIAL	FRAME TYPE	FRAME FINISH	FRAME TRIM MATERIAL	FRAME TRIM FINISH	DOOR DOOR TYPE	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	HARDWARE GROUP	NOTES
100A	LOBBY	3' - 0"	7' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	(E)	1	[(E) LEVER MORTISE] - INSTALL NEW ELECTRIC STIKE, ELECTRIC HINGES WITHIN EXISTING DOOR. PROVIDE NEW LOW VOLTAGE CONNECTION AND CONNECT TO NEW CARD READER (RE: SECURITY DRAWINGS)
100B	LOBBY	6' - 0"	8' - 0"	N/A	(E)	(E)	(E)	(E)	(E)	(E)	1 3/4"	(E)	(E)	1,7	[(E) FRAMELESS GLASS DOOR - DUEL MAGNETIC LOCKS. CARD READER, ADA POWER ASSIST] - INSTALL NEW PANIC HARDWARE (DORMA DG1000) OR SIMILAR TO WORK WITH EXISTING MAG HOLD LOCKS. COORDINATE EXISTING CARD READER WITH OWNERS SECURITY CONTROL SYSTEM.
100C	LOBBY	3' - 0"	8' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	(E)	1	[(E) LEVER MORTISE] - INSTALL NEW ELECTRIC STIKE, ELECTRIC HINGES WITHIN EXISTING DOOR. PROVIDE NEW LOW VOLTAGE CONNECTION AND CONNECT TO NEW CARD READER (RE: SECURITY DRAWINGS)
101	RECEPTION	3' - 0"	8' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	1,7	[(E) CR/REX MORTISE ELECTRIC LOCK] RETROFIT (E) DOOR TO ACCEPT NEW PANIC HARDWARE, CONNECT EXISTING ELECTRIC MORTISE LOCK WITH NEW CARD READER (RE: SECURITY DRAWINGS.)
101A	RECEPTION	3' - 0"	8' - 0"	N/A	HM	SINGLE	PT	WD	WD-1	F	1 3/4"	WD	TS	3	RELOCATED DOOR AND FRAME. MAPLE DOOR
102	MAILROOM	3' - 0"	8' - 0"	N/A	HM	SINGLE	PT	WD	WD-1	F	1 3/4"	WD	TS	4	RELOCATED DOOR AND FRAME. MAPLE DOOR
106	CONFERENCE ROOM	3' - 0"	8' - 0"	N/A	HM	(E)	PT	(E)	(E)	F	1 3/4"	(E)	(E)	1	[(E) CR/REX MORTISE LEVER] REPLACE LEVER SET, PROVIDE NEW ELECTRIC STRIKE, ELECTRIC HINGES, LOW VOLTAGE CONNECTION AND INTERIOR WIRING. COORDINATE CONNECTION WITH NEW CARD READER PER SECURITY DRAWINGS.
107	STORAGE	3' - 0"	8' - 0"	N/A	HM	(E)	PT	(E)	(E)	F	1 3/4"	(E)	(E)	1	[(E) CR/REX MORTISE LEVER] REPLACE LEVER SET, PROVIDE NEW ELECTRIC STRIKE, ELECTRIC HINGES, LOW VOLTAGE CONNECTION AND INTERIOR WIRING. COORDINATE CONNECTION WITH NEW CARD READER PER SECURITY DRAWINGS
109	BOARD ROOM	6' - 0"	8' - 0"	N/A	HM	DOUBLE	PT	WD	WD-1	F	1 3/4"	WD	TS	9	DOOR STYLE TO MATCH EXISTING WITHIN TENANT SUITES, MAPLE WITH TRANSPARENT STAIN.
109A	CONFERENCE ROOM	3' - 0"	8' - 0"	N/A	HM	SINGLE	PT	STL	PT	F	1 3/4"	WD	PAINTED	11	PAINT TO MATCH WALL, COORDINATE NEW CARD READER
109B	BOARD ROOM EXIT PASSAGEWAY	3' - 0"	8' - 0"	90 MIN	HM	(E)	PT	(E)	(E)	F	1 3/4"	(E)	PAINTED	7	(E) LEVER MORTISE SET AND MAG HOLD. RETROFIT DOOR TO ACCEPT NEW PANIC HARDWARE, REKEY WITH NEW IC CORE, COORDINATE NEW HARDWARE WITH EXISTING MAG HOLD.
110	BOARD ROOM	3' - 6"	8' - 0"	N/A	HM	SINGLE	PT	WD	WD-1	F	1 3/4"	WD	TS	4	DOOR FINISH TO MATCH WOOD TONE IN EXISTING SUITE (MAPLE). DOORS TO HAVE KICK DOWN DOOR STOP
111A	WAITING	3' - 0"	8' - 0"	N/A	HM	SINGLE	PT	STL	PT	F	1 3/4"	WD	PAINTED	3	DOOR AND RELITE STYLE TO MATCH EXISTING
111B	WAITING	3' - 0"	7' - 0"		HM	(E)	(E)			F	1 3/4"	(E)	(E)	1	[(E) LEVER MORTISE] - INSTALL NEW ELECTRIC STIKE, ELECTRIC HINGES WITHIN EXISTING DOOR. PROVIDE NEW LOW VOLTAGE CONNECTION AND CONNECT TO NEW CARD READER (RE: SECURITY DRAWINGS)
115	OPEN OFFICE	3' - 0"	8' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	3	[(E) PASSAGE LEVER] - REPLACE EXISTING LEVER SET WITH NEW LOCKABLE OFFICE SET
116	OPEN OFFICE	3' - 0"	8' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	3	[(E) PASSAGE LEVER] - REPLACE EXISTING LEVER SET WITH NEW LOCKABLE OFFICE SET
119	CONFERENCE ROOM	3' - 0"	8' - 0"	N/A	HM	SINGLE	PT	STL	PT	F	1 3/4"	WD	PAINTED	3	
120	STAIR	3' - 0"	8' - 0"	90 MIN	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	(E)	7	COORDINATE NEW CARD READER
120A		3' - 0"	8' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	(E)	7	
121	STAIR	3' - 0"	8' - 0"	90 MIN	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	(E)	1	[(E) CR/REX MORTISE ELECTRIC LOCK] CONNECT EXISTING LOW VOLAGE SYSTEM TO NEW CARD READER AND FOB CONTROL SYSTEM (RE: SECRUITY DRAWINGS)
122	EQUIPMENT CLOSET	6' - 0"	8' - 0"	N/A	HM	DOUBLE	PT	WD	WD-1	F	1 3/4"	WD	TS	10	DOOR STYLE TO MATCH EXISTING SUITE (MAPLE)
203A		3' - 6"	8' - 0"	N/A	HM	SINGLE	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	1,7	FLIP EXISTING DOOR WITHIN THE EXISTING FRAME. INSTALL NEW PANIC HARDWARE AND PASSAGE LEVER WITHIN EXISTING DOOR.
203B		3' - 0"	8' - 0"	N/A	HM	SINGLE	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	1,7	FLIP EXISTING DOOR WITHIN THE EXISTING FRAME. INSTALL NEW PANIC HARDWARE AND PASSAGE LEVER WITHIN EXISTING DOOR.
207	PRIVATE OFFICE	3' - 0"	8' - 0"	N/A	HM	SINGLE	PT	WD	WD-1	F	1 3/4"	WD	PAINTED	3	DOOR AND RELITE STYLE TO MATCH EXISTING
214	PHONE ROOM	3' - 4"	8' - 0"	N/A	N/A	SLIDER	ALUM	MDF	PT	S	1 3/8"	WD	PAINTED	6	
215	PHONE ROOM	3' - 4"	8' - 0"	N/A	N/A	SLIDER	ALUM	MDF	PT	S	1 3/8"	WD	PAINTED	6	
216	PHONE ROOM	3' - 4"	8' - 0"	N/A	N/A	SLIDER	ALUM	MDF	PT	S	1 3/8"	WD	PAINTED	6	
222A	BREAK ROOM	3' - 0"	8' - 0"	N/A	HM	SINGLE	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	2	REVERSE DOOR SWING WITHIN EXISTING FRAME AS SHOWN. PRESERVE AND REINSTALL EXISTING HARDWARE.
222B	BREAK ROOM	3' - 0"	8' - 0"	N/A	HM	SINGLE	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	2	REVERSE DOOR SWING WITHIN EXISTING FRAME AS SHOWN. PRESERVE AND REINSTALL EXISTING HARDWARE.
224	QUIET ROOM	3' - 0"	8' - 0"	N/A	HM	SINGLE	PT	WD	WD-1	F	1 3/4"	WD	PAINTED	5	
225	FRAME ROOM	3' - 0"	8' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	1	[(E) PASSAGE LEVER] REPLACE LEVER SET, PROVIDE NEW ELECTRIC STRIKE, ELECTRIC HINGES, LOW VOLTAGE CONNECTION AND INTERIOR WIRING. COORDINATE CONNECTION WITH NEW CARD READER PER SECURITY DRAWINGS
232	TOSA WORK ROOM	3' - 0"	8' - 0"	N/A	HM	SINGLE	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	4	REPLACE EXISTING PASSAGE WITH WITH STORAGE LEVER TYPE, BLANK OFF EXISTING DEADBOLT AND PATCH FRAME.
234	PRIVATE OFFICE	3' - 0"	8' - 0"	N/A	HM	SINGLE				F	1 3/4"				
235	PHONE ROOM	3' - 4"	8' - 0"	N/A	N/A	SLIDER	ALUM	MDF	PT	S	1 3/8"	WD	PAINTED	6	
236	PHONE ROOM	3' - 4"	8' - 0"	N/A	N/A	SLIDER	ALUM	MDF	PT	S	1 3/8"	WD	PAINTED	6	
237	PHONE ROOM	3' - 4"	8' - 0"	N/A	N/A	SLIDER	ALUM	MDF	PT	S	1 3/8"	WD	PAINTED	6	
245	PRIVATE OFFICE	3' - 0"	8' - 0"	N/A	HM	SINGLE	PT	WD	WD-1	F	1 3/4"	WD	PAINTED	3	DOOR AND RELITE STYLE TO MATCH EXISTING
247	STAIR	3' - 0"	8' - 0"	90 MIN	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	1	[(E) LEVER MORTISE] - INSTALL NEW ELECTRIC STIKE, ELECTRIC HINGES WITHIN EXISTING DOOR. PROVIDE NEW LOW VOLTAGE CONNECTION AND CONNECT TO NEW CARD READER (RE: SECURITY DRAWINGS)
248	STAIR	3' - 0"	8' - 0"	90 MIN	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	1	[(E) CR/REX MORTISE ELECTRIC LOCK] CONNECT EXISTING LOW VOLAGE SYSTEM TO NEW CARD READER AND FOB CONTROL SYSTEM (RE: SECRUITY DRAWINGS)
303	PRIVATE OFFICE	3' - 0"	8' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	3	REPLACE (E) PASSAGE LEVER AND SET WITH NEW OFFICE LEVER FROM NEW HARDWARE GROUP
304	IT ROOM	3' - 6"	8' - 0"	N/A	HM	SINGLE	PT	WD	WD-1	F	1 3/4"	WD	PAINTED	11	COORDINATE WITH ACCESS CONTROL (RE: SECURITY DRAWINGS)
307	PRIVATE OFFICE	3' - 0"	8' - 0"	N/A	HM	SINGLE	PT	WD	WD-1	F	1 3/4"	WD	PAINTED	3	DOOR AND RELITE STYLE TO MATCH EXISTING
308	PRIVATE OFFICE	3' - 0"	8' - 0"	N/A	HM	SINGLE	PT	WD	WD-1	F	1 3/4"	WD	PAINTED	3	DOOR AND RELITE STYLE TO MATCH EXISTING
313	PRIVATE OFFICE	3' - 0"	8' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	3	REPLACE (E) PASSAGE LEVER AND SET WITH NEW OFFICE LEVER FROM NEW HARDWARE GROUP
315	PHONE ROOM	3' - 4"	8' - 0"	N/A	N/A	SLIDER	ALUM	MDF	PT	S	1 3/8"	WD	PAINTED	6	
316	PHONE ROOM	3' - 4"	8' - 0"	N/A	N/A	SLIDER	ALUM	MDF	PT	S	1 3/8"	WD	PAINTED	6	
317	PHONE ROOM	3' - 4"	8' - 0"	N/A	N/A	SLIDER	ALUM	MDF	PT	S	1 3/8"	WD	PAINTED	6	
320	PRIVATE OFFICE	3' - 0"	8' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	3	REPLACE (E) PASSAGE LEVER AND SET WITH NEW OFFICE LEVER FROM NEW HARDWARE GROUP
321	PRIVATE OFFICE	3' - 0"	8' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	3	REPLACE (E) PASSAGE LEVER AND SET WITH NEW OFFICE LEVER FROM NEW HARDWARE GROUP
332	FRAME ROOM	3' - 0"	8' - 0"	N/A	HM	SINGLE	PT	WD	WD-1	F	1 3/4"	WD	PAINTED	11	DOOR AND RELITE STYLE TO MATCH EXISTING
333	HUDDLE ROOM	3' - 0"	8' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	2	REMOVE (E) COMBO LOCK, REPLACE WITH NEW PASSAGE SET LEVER FROM NEW HARDWARE GROUP
337	PRIVATE OFFICE	3' - 0"	8' - 0"	N/A	HM	SINGLE	PT	WD	WD-1	F	1 3/4"	WD	PAINTED	3	DOOR AND RELITE STYLE TO MATCH EXISTING
338	PRIVATE OFFICE	3' - 0"	8' - 0"	N/A	HM	SINGLE	PT	WD	WD-1	F	1 3/4"	WD	PAINTED	3	DOOR AND RELITE STYLE TO MATCH EXISTING
345	PHONE ROOM	3' - 4"	8' - 0"	N/A	N/A	SLIDER	ALUM	MDF	PT	S	1 3/8"	WD	PAINTED	6	
346	PHONE ROOM	3' - 4"	8' - 0"	N/A	N/A	SLIDER	ALUM	MDF	PT	S	1 3/8"	WD	PAINTED	6	
347	PHONE ROOM	3' - 4"	8' - 0"	N/A	N/A	SLIDER	ALUM	MDF	PT	S	1 3/8"	WD	PAINTED	6	
348A	WELLNESS ROOM	3' - 0"	8' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	5	REPLACE (E) ENTRANCE LEVER AND SET WITH NEW OCCUPANCY INDICATOR AND LEVER FROM NEW HARDWARE GROUP
348B	WELLNESS ROOM	3' - 0"	8' - 0"	N/A	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	5	REPLACE (E) ENTRANCE LEVER AND SET WITH NEW OCCUPANCY INDICATOR AND LEVER FROM NEW HARDWARE GROUP
351	STAIR	3' - 0"	8' - 0"	90 MIN	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	1	[(E) CR/REX MORTISE ELECTRIC LOCK] CONNECT EXISTING LOW VOLAGE SYSTEM TO NEW CARD READER AND FOB CONTROL SYSTEM (RE: SECRUITY DRAWINGS)
352	STAIR	3' - 0"	8' - 0"	90 MIN	HM	(E)	(E)	(E)	(E)	F	1 3/4"	(E)	PAINTED	1	[(E) CR/REX MORTISE ELECTRIC LOCK] CONNECT EXISTING LOW VOLAGE SYSTEM TO NEW CARD READER AND FOB CONTROL SYSTEM (RE: SECRUITY DRAWINGS)

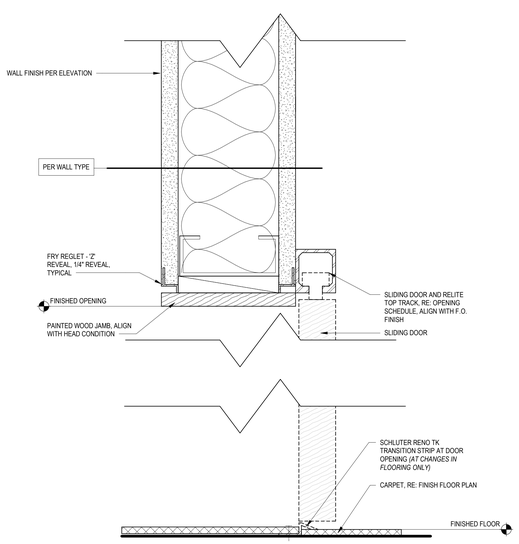
NOTE: EXISTING HARDWARE CONDITIONS PROVIDED FOR ESTIMATING PURPOSES ONLY. THE GENERAL CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS AT DOORS TO BE MODIFIED AND PROVIDE A COMPLETE HARDWARE GROUP TO MEET DESIGN REQUIREMENTS.



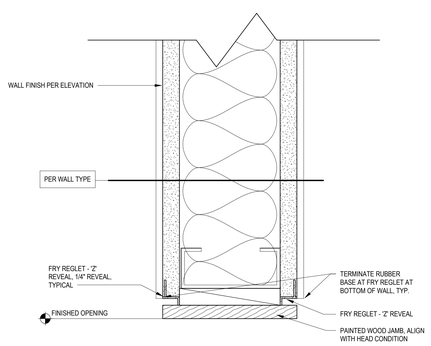
DOOR TYPES + RELITE TYPES
3/8" = 1'-0"

EXISTING DOOR & RELITE FRAME TYPES
3/8" = 1'-0"

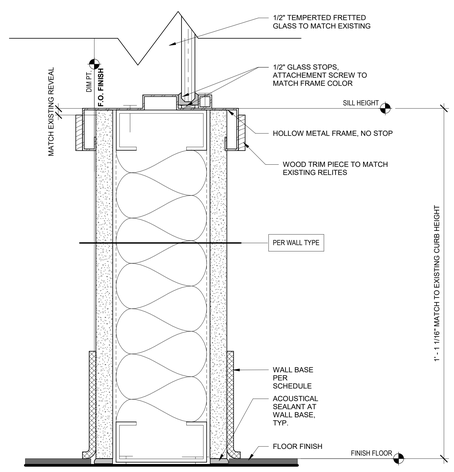
NOTE: NEW DOORS TO MATCH STYLE AND TRIM OF EXISTING DOORS WITHIN THE PROJECT, INCLUDING FINISH CARPENTRY TRIM SHOWN IN THE ABOVE PHOTO UNLESS OTHERWISE NOTED.



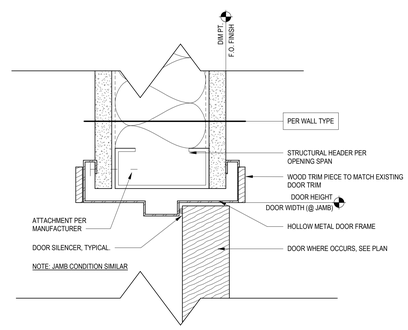
OPENING - KLEIN - LIGNEEA - HEAD/SILL 4
6" = 1'-0"



OPENING - KLEIN - LIGNEEA - JAMB 3
6" = 1'-0"



OPENING - HM RELITE JAMB @ CURB 2
6" = 1'-0"



OPENING - HEAD/JAMB - METAL TRIM 1
6" = 1'-0"

GENERAL NOTES - DOORS

A. REFER TO SHEET G001 FOR COMPLETE LIST OF GENERAL NOTES.

B. DIMENSIONS SHOWN FOR DOORS AND WINDOWS ARE TYPICALLY FINISHED OPENING DIMENSIONS. COORDINATE ROUGH OPENING DIMENSIONS PER MANUFACTURER RECOMMENDATIONS WITH SELECTED OPENING.

C. EXIT DOORS TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR FORCE.

D. THE MAIN EXIT TO DOOR TO HAVE SIGNAGE ABOVE THE DOOR READING "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED."

E. ALL NEW DOORS TO BE SOLID WOOD. PAINTED TO MATCH THE ADJACENT WALL COLOR,UNLESS NOTED OTHERWISE.

F. PROVIDE NEW ADA LEVER STYLE DOOR HARDWARE TO MATCH EXISTING BUILDING STANDARD. COORDINATE ANY DISCREPANCIES IN HARDWARE BETWEEN TENANT SUITES OR FLOORS WITH OWNER AND ARCHITECT.

G. ALL NEW FRAMES TO BE HOLLOW METAL TO MATCH EXISTING UNLESS NOTED OTHERWISE.

H. PROVIDE TEMPERED GLAZING IN ALL DOORS AND RELITES UNLESS NOTED OTHERWISE.

I. ALL EXISTING DOOR HARDWARE TO BE RECORED TO BSD STANDARDS. OWNER WILL RECORE EXISTING DOOR HARDWARE. COORDINATE REQUIREMENTS WITH PRE-SUBMITTAL MEETING.

J. ALL EXISTING DOORS ON STORAGE ROOMS TO RECEIVE NEW STORAGE LOCKSET. G.C. TO REPLACE EXISTING HARDWARE IF IT CAN NOT BE RECORED TO A STORAGE LOCKSET. NEW DOOR HARDWARE TO MATCH EXISTING ONLY IN APPERANCE, NEW SETS TO BE COMPATIBLE WITH IC-CORE PER DISTRICT STANDARDS.

K. COORDINATE SECURITY ACCESS REQUIREMENTS WITH SECURITY DRAWINGS. PROVIDE COMPELTE HARDWARE PACKAGE TO RETROFIT EXISTING DOORS SCHEDULED FOR NEW ACCESS CONTROL.

L. DOORS AT WELLNESS ROOM 348 ARE TO RECEIVE NEW HARDWARE SET PER GROUP 3. THIS NEW HARDWARE DOES NOT NEED AN IC-CORE.

M. ALL DOORS, INCLUDING EXISTING TO BE PAINTED PT-1 UNLESS LOCATED ON AN ACCENT WALL, THEN DOOR IS TO MATCH ADJACENT ACCENT WALL COLOR. DO NOT PAINT EXISTING HOLLOW METAL FRAMES ON DOORS OR RELITES UNLESS NOTED OTHERWISE.

N. REFER TO FINISH PLANS AND FINISH SCHEDULE FOR PAINT COLOR AND MATERIAL DIRECTION.

O. SEE TYPICAL FRAME DETAILS ON THIS PAGE FOR TRIM AND FINISH DIRECTION. UNLESS NOTED OTHERWISE, MATCH EXISTING CONDITIONS TRIM INCLUDING FINISH CARPENTRY MAPLE TRIM.

MATERIAL LEGEND

(E)	EXISTING	**WD**	WOOD - SOLID CORE
GL	GLASS - TEMPERED	**HC**	WOOD - HOLLOW CORE
MDF	MDF - TRIM	**MTL**	METAL - SOLID CORE
MFR	MANUFACTURER'S FINISH	**STL - KD**	STEEL FRAME - KNOCKDOWN
PT	PAINT	**HM**	HOLLOW METAL FRAME
TS	TRANSPARENT STAIN	**ALUM**	ALUMINUM STOREFONT

HARDWARE GROUPS

BASIS OF DESIGN PRODUCTS: *CONTRACTOR TO SUBMIT COMPLETE HARDWARE GROUPS BASED ON BASIS OF DESIGN PRODUCTS AND HARDWARE DESIGN DIRECTION BELOW:*

DOOR FRAMES: *MATCH EXISTING*
LEVER HARDWARE SETS: *MATCH EXISTING IN APPRERANCE ONLY* ***(NEW LEVER HARDWARE SETS TO BE COMPATIBLE WITH AN IC-CORE PER DISTRICT STANDARDS)***
HINGES: *MATCH EXISTING*
CLOSERS: *MATCH EXISTING*

BARN DOOR HARDWARE: *ASSA ABLOY*
ROCKWOOD RM7212
SATIN STAINLESS STEEL US32D
MOUNTING TYPE TYPE SHD: BACK TO BACK HEAVY DUTY

DOOR PULL HARDWARE: *ASSA ABLOY*
ROCKWOOD RM3512
STAINLESS STEEL
MOUNTING TYPE TYPE SHD: BACK TO BACK HEAVY DUTY

GROUP 1: NEW ACCESS CONTROL @ EXISTING DOOR

THIS HARDWARE GROUP REQUIRES COORDINATION OF A NEW ACCESS CONTROL SYSTEM WITH EXISTING DOOR HARDWARE OR ACCESS CONTROL. REVIEW NOTES WITHIN DOOR HARDWARE SCHEDULE FOR EXISTING HARDWARE CONFIGURATION AND ANTICIPATED SCOPE. REVIEW SECURITY DRAWINGS FOR NEW ACCESS CONTROL REQUIREMENTS.

GENERAL CONTRACTOR TO FIELD VERIFY EXISTING DOOR HARDWARE FOR THESE DOORS AND PROVIDE A COMPLETE HARDWARE SET FOR MODFICATIONS AT THE HARDWARE PRE-SUBMITTAL MEETING.

AT EXISTING STAIRWAYS WITH EXISTING CARD ACCESS OR STAIRWAY DOORS TO RECEIVE NEW ACCESS, PROVIDE LOW VOLTAGE CONNECTION TO ALLOW SIMULATNEOUSLY UNLOCK FROM ROOM 113 OR OTHER APPROVED LOCATION TO MEET THE REQUIREMENTS OF OSSC 1010.1.9.12 EXCEPTION 3.

GROUP 2: INTERIOR PASSAGE
(4) PAIR BUTTS - 4 1/2"
LEVER SET - "PASSAGE" TYPE
WALL STOP TYPICAL UNO.
SILENCER

GROUP 3: OFFICE (LOCKING)
(4) PAIR BUTTS - 4 1/2"
LEVER LOCKSET - "OFFICE" TYPE
WALL STOP TYPICAL UNO.
SILENCER

GROUP 4: STORAGE (LOCKING)
(4) PAIR BUTTS - 4 1/2"
LEVER LOCKSET - "STORAGE" TYPE
SURFACE CLOSER
WALL STOP TYPICAL UNO.
SILENCER

GROUP 5: OCCUPANCY (LOCKING)
(4) PAIR BUTTS - 4 1/2"
LEVER LOCKSET - "PASSAGE" TYPE
OCCUPANY INDICATOR
WALL STOP TYPICAL UNO.
SILENCER

NOTE: DOOR TO OPEN FROM INTERIOR WTIH A SINGLE ACTION

GROUP 6: BARN (KLEIN SLIDING)
FRAME, SWEEPS AND STOPS BY MANUFACTURER
(2) DOOR PULLS (DHD-2) PER FINISH SCHEDULE
CONCEALED CLOSER

ALIGN DOOR SUPPORT TRACK WITH OPENING SIZE AND DIMENSIONS TO BE UNIFORM AND ALIGN WITH END WALL FACE OF FINISH.

GROUP 7: NEW PANIC HARDWARE @ EXISTING DOOR

GENERAL CONTRACTOR TO RETROFIT EXISTING DOOR TO ACCEPT NEW PANIC HARDWARE. SEE NOTES WITHIN THE HARDWARE SCHEDULE FOR EXISTING HARDWARE PRESENT.

PROVIDE A COMPLETE HARDWARE SCHEDULE FOR EACH DOOR IDENTIFIED WITHIN THIS HARDWARE GROUP AT THE DOOR HARDWARE PRE-SUBMITTAL MEETING. WHERE PANIC HARDWARE IS PROVIDED, COORDINATE RELEASE OF ELECTRONIC LOCKS AT THAT DOOR IF PRESENT.

GROUP 8: PANIC HARDWARE
(4) PAIR BUTTS - 4 1/2"
LEVER SET - "PASSAGE" TYPE
PANIC HARDWARE
WALL STOP TYPICAL UNO.
SILENCER

GROUP 9: DOUBLE DOOR (NO LATCH)
(4) PAIR BUTTS - 4 1/2"
(2) DOOR PULLS (DHD-2) PER FINISH SCHEDULE, EACH SIDE
CONCEALED CLOSERS
WALL STOPS, UNO
DOOR MOUNTED LEVER DOOR HOLDS
SILENCER
NO LATCH

NOTE: DOOR TO MEET REQUIREMENTS OF OSSC 1010.1.10

GROUP 10: EQUIPMENT CLOSET
(4) PAIR BUTTS - 4 1/2"
LEVER SET - "STORAGE" TYPE
REMOVEABLE ASTRAGAL
WALL STOP TYPICAL UNO.
SILENCER

GROUP 11: SECURE ACESS (ELECTRONIC ACCESS)
(4) PAIR BUTTS - 4 1/2"
LEVER LOCKSET - "PASSAGE" TYPE
SURFACE CLOSER
WALL STOP TYPICAL UNO.
SILENCER

REVIEW SECURITY DRAWINGS FOR ACCESS CONTROL REQUIREMENTS, PROVIDE A COMPLETE HARDWARE SCHEDULE TO MEET DISTRICT STANDARDS FOR REAVIEW AT THE DOOR HARDWARE PRE-SUBMITTAL MEETING

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REGISTERED ARCHITECT MICHAEL BARNETT OR No. 5889 STATE OF OREGON

REVISIONS:

BEAVERTON SCHOOL DISTRICT - CENTRAL OFFICE

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.17.2022

DOORS, FRAMES, HARDWARE SCHEDULE & TYPICAL OPENING DETAILS

A900

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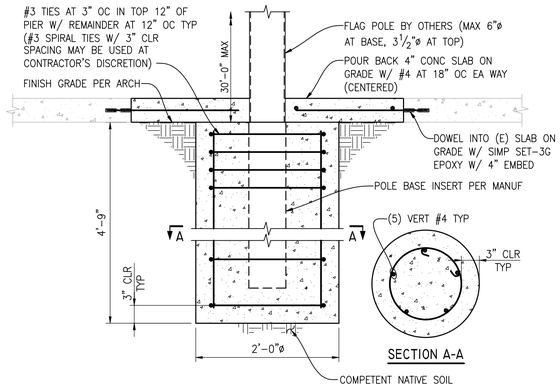
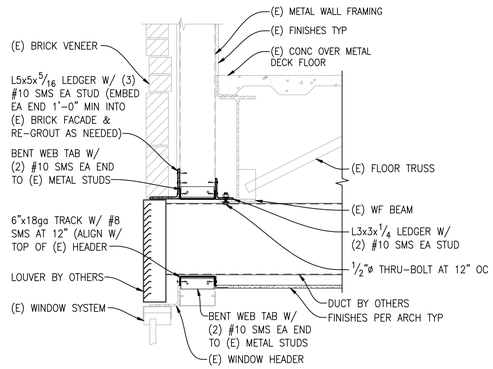


FLAG POLE FOUNDATION

SCALE: 1"=1'-0"

1



(N) LOUVER OPENING AT (E) EXTERIOR WALL

SCALE: 1"=1'-0"

2

REQUIRED SPECIAL INSPECTIONS

INSPECTIONS: All construction is subject to inspection by the Building Official in accordance with IBC Sec 110. The contractor shall coordinate all required inspections with the Building Official.

SPECIAL INSPECTIONS: In addition to the inspections required by IBC Sec 110, the owner or architect shall employ special inspectors to provide special inspections during construction as summarized in the following tables. The contractor shall provide sufficient notice and access for the special inspector to perform these special inspections.

STRUCTURAL OBSERVATIONS: Refer to "Submittals" Section for additional requirements regarding Structural Observations. Contractor is responsible for coordinating with the structural engineer to schedule applicable observations.

Notes:
1) Items with an "X" shall be inspected in accordance with IBC Chapter 17 by a qualified special inspector.
2) Continuous special inspection means that the special inspector is on site at all times observing the work requiring special inspection. Periodic special inspection means that the special inspector is on site at time intervals necessary to confirm that the work requiring special inspection is in compliance.
3) Any discrepancies found during special inspection shall be brought to the immediate attention of the contractor for correction. If discrepancies are not corrected, notify the building official and Architect/Engineer.

REQUIRED STRUCTURAL SPECIAL INSPECTIONS

SYSTEM or MATERIAL	INSPECTION				REMARKS
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY		
			Continuous	Periodic	
CONCRETE					
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	1909.1 TABLE 1705.3	ACI 318: 3.8.6 ACI 318: 8.1.3 ACI 318: 21.1.8		X (a)	SPECIAL INSPECTIONS APPLY TO ANCHOR PRODUCT NAME, TYPE, AND DIMENSIONS, HOLE DIMENSIONS, COMPLIANCE WITH DRILL BIT REQUIREMENTS, CLEANLINESS OF THE HOLE AND ANCHOR, ADHESIVE EXPIRATION DATE, ANCHOR/ADHESIVE INSTALLATION, ANCHOR EMBEDEMENT, AND TIGHTENING TORQUE

(a) Periodic Special Inspection frequency and timing to be defined by the registered design professional
(b) Selection to be made by the registered design professional based on building category and design methodology

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SFA Design Group, LLC
STRUCTURAL | GEOTECHNICAL | SPECIAL INSPECTIONS
Portland, OR | Livermore, CA | Seattle, WA
p: (503) 841-6311 www.sfadg.com

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 88554PE OREGON MARCH 14 2020 LOGAN MILLER

EXPIRES: 12-31-2020

REVISIONS:

BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL
1260 NW WATERHOUSE AVE
BEAVERTON, OREGON 97006

PROJECT: 22-005
DATE: 2/17/2022

DETAILS

S4.1

MECHANICAL - GENERAL NOTES

1. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN TO COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED TO INCLUDE BUT NOT LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. ANY REWORK OF INSTALLED EQUIPMENT WILL BE AT CONTRACTORS EXPENSE.
2. INCORPORATE INTO INSTALLATION MECHANICAL SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OTHER APPLICABLE REQUIREMENTS.
3. WARNING - CALL 48 HOURS BEFORE YOU DIG: LAW REQUIRES ANYONE DOING ANY EXCAVATION, FENCING, PLANTING OR DRILLING TO CALL 48 HOURS IN ADVANCE. HAND DIG WITHIN 18 INCHES OF ANY LOCATE MARK OR FLAG. ONE CALL 811.
4. ON COMPLETION OF THE INSTALLATION, MECHANICAL CONTRACTOR TO COOPERATE WITH THE OWNER TO PROVIDE ANY NECESSARY ADJUSTING AND BALANCING TO OBTAIN PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS. CONTRACTOR TO PROVIDE ALL FACILITIES AND EQUIPMENT, AND MAKE ALL TESTS, REQUIRED FOR ADJUSTMENTS AND BALANCING TO ESTABLISH THE PROPER PERFORMANCE OF ANY PIECE OF EQUIPMENT.
5. REFER TO ARCHITECTURAL SPECIFICATIONS FOR FIRESTOPPING AND TO ARCHITECTURAL CODE PLAN FOR FIRE RATED WALLS AND FLOORS. EACH TRADE IS RESPONSIBLE TO FIRESTOP PENETRATIONS THROUGH RATED ASSEMBLIES.
6. EACH TRADE IS RESPONSIBLE TO MAKE PENETRATIONS WHERE REQUIRED IN EXISTING WALLS, FLOORS, AND CEILINGS. PENETRATIONS TO BE NEAT. ANY OVERCUT TO BE CONCEALED OR CAULKED.
7. ALL EXPOSED WALL PENETRATIONS TO BE COVERED BY ESCUTCHEONS OR SHEET METAL AS APPROPRIATE.
8. ALL CONCEALED AND EXPOSED PIPING AND DUCT WALL PENETRATIONS TO BE CAULKED TO PREVENT NOISE TRANSFER BETWEEN SPACES.
9. CONTRACTOR TO BE RESPONSIBLE TO CREATE NECESSARY OPENINGS TO THE BUILDING TO REMOVE EXISTING ITEMS AND TO BRING IN NEW EQUIPMENT. ALL OPENINGS CREATED TO BE PATCHED AND FINISHED WITH MATERIALS TO MATCH EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK.
10. WARRANT ALL EQUIPMENT AND INSTALLATION PER THE CONTRACT DOCUMENTS.
11. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES. CORRECT DEFICIENCIES CAUSE BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITION IN CONFLICT WITH THE PLANS

HVAC - NOTES

1. CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
2. MECHANICAL CONTRACTOR TO PROVIDE A COMPLETE HVAC SYSTEM, INCLUDING SUPPLY, RETURN, EXHAUST, AND VENTILATION DUCTWORK, MECHANICAL EQUIPMENT, SUPPORTS, HANGERS, DIFFUSERS, GRILLES, REGISTERS, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SYSTEM TO MEET ALL CITY AND STATE CODES AND REQUIREMENTS.
3. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEM. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS WERE USED TO SIZE DUCTS AND CALCULATE FRICTION LOSS FOR AIR-HANDLING EQUIPMENT SIZING AND FOR OTHER DESIGN CONSIDERATIONS. INSTALL DUCT SYSTEMS AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON SHOP DRAWINGS AND COORDINATION DRAWINGS.
4. ALL DUCT DIMENSIONS LISTED ARE INTERIOR FREE AREA DUCT DIMENSIONS AND DO NOT INCLUDE INSULATION REQUIREMENTS.
5. CONTRACTOR TO SEAL ALL WALL DUCT PENETRATIONS. PROVIDE FIRE CAULKING ASSEMBLIES FOR PENETRATIONS OF RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS. DUCT INSULATION TO CONTINUE THRU WALL PENETRATIONS UNBROKEN, EXCEPT WHERE FIRE OR FIRE/SMOKE DAMPERS ARE INSTALLED. SEAL AROUND DUCT INSULATION AT WALL PENETRATIONS.
6. TEST HVAC CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS TO ENSURE THEY ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCES OF OPERATION SHALL BE FUNCTIONALLLY TESTED TO ENSURE THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. A COMPLETE REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER PRIOR TO OCCUPANY.

PLUMBING - NOTES

1. CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
2. CONTRACTOR TO PROVIDE A COMPLETE PLUMBING SYSTEM, INCLUDING, PIPE, INSULATION, HANGERS, SUPPORTS, EQUIPMENT, WATER HEATERS, FIXTURES, MIXING VALVES, VALVES, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. SIZE AND INSTALL PLUMBING SYSTEM PER PLUMBING CODE. COMPLY WITH ALL LOCAL AND STATE CODES AND REQUIREMENTS.
3. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PLUMBING SYSTEM.
4. EXISTING PIPING AND EQUIPMENT LOCATIONS SHOWN ARE BASED ON ORIGINAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR LOCATING PIPING UNDER GROUND OR IN WALLS/CHASES WHERE WORK IS REQUIRED.
5. CONTRACTOR TO SEAL ALL WALL PIPE PENETRATIONS. PROVIDE FIRE CAULKING ASSEMBLY FOR PENETRATIONS OF FIRE RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS. PIPE INSULATION TO CONTINUE THRU WALL PENETRATIONS UNBROKEN. SEAL AROUND PIPE INSULATION AT WALL PENETRATIONS.
6. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COST OF MEDICAL GAS CERTIFICATION DUE TO MEDICAL GAS MODIFICATIONS MADE ON THIS PROJECT TO THE OXYGEN AND MEDICAL AIR SYSTEMS. CERTIFICATION TO OCCUR PER NFPA 99, 2012 VERSION, AND PER SPECIFICATIONS.
7. CONTRACTOR TO VERIFY WITH ENGINEER FOR ANY FIXTURES NOT TAGGED OR PIPED PRIOR TO ANY WORK. CONTRACTOR IS RESPONSIBLE FOR ALL PLUMBING FIXTURES SHOWN ON ARCHITECTURAL DRAWINGS; TAGGED OR NOT TAGGED ON PLUMBING /MECHANICAL DRAWINGS UNLESS SPECIFICALLY NOTED AS EXCLUDED FROM SCOPE.

MECHANICAL – DEMOLITION NOTES

1. MECHANICAL DEMOLITION DRAWINGS SHOWING EXISTING CONDITIONS HAVE BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST, WHICH MAY NOT BE SHOWN, AND SUCH ITEMS TO BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR TO VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
2. CONTRACTOR TO THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING MECHANICAL SYSTEMS WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR TO OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.
3. PIPING, HANGERS, DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, ETC., SHOWN ON PLANS TO BE REMOVED UNLESS NOTED OTHERWISE. REMOVAL TO BE DONE IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION WORK. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.
4. EQUIPMENT AND/OR MATERIALS SCHEDULED FOR ABANDONMENT AND REMOVAL ARE TO BECOME CONTRACTOR'S SALVAGE AND TO BE HAULED AWAY FROM THE SITE PROMPTLY. EXCEPTION TO BE THE EQUIPMENT LISTED FOR DISTRICT SALVAGE.
5. REMOVE ALL ABANDONED PIPING AND DUCTWORK. REFER TO ARCH PLANS FOR CEILINGS TO BE REMOVED.

FIRE PROTECTION - NOTES

1. CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES AS DESCRIBED IN MECHANICAL GENERAL NOTE #1.
2. CONTRACTOR TO PROVIDE A COMPLETE FIRE PROTECTION SYSTEM, INCLUDING, PIPE, SPRINKLERS, COVERS, VALVES, FLOW SWITCHES, HANGERS, SUPPORTS, EQUIPMENT, AND ALL APPURTENANCES. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. SIZE AND INSTALL FIRE PROTECTION SYSTEM PER NFPA 13. COMPLY WITH ALL LOCAL AND STATE CODES AND REQUIREMENTS.
3. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF FIRE PROTECTION SYSTEM. ROUTE PIPING IN SUCH A MANNER AS TO AVOID AND/OR MINIMIZE CONFLICT WITH OTHER TRADES. ANY PIPING REQUIRED TO BE SLOPED TO HAVE RIGHT OF WAY.
4. LOCATE SPRINKLER HEADS TO PROVIDE SUFFICIENT COVERAGE IN INDIVIDUAL SPACES WITHOUT CONFLICT TO LIGHTS, DIFFUSERS, AND GRILLES. PROVIDE MANUAL DRAIN VALVES AT ALL LOW POINTS IN THE SYSTEM WHERE OFFSETS ARE REQUIRED TO AVOID CONFLICTS.
5. ALL SPRINKLER HEADS TO BE CENTERED WITHIN CEILING TILES OR AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLAN (RCP), UNLESS INDICATED OTHERWISE.
6. SPRINKLER MAINS TO NOT BE ROUTED THRU COMMUNICATION OR ELECTRICAL ROOMS.
7. PIPING TO NOT BLOCK CLEARANCES ANY MECHANICAL EQUIPMENT. INSTALLING CONTRACTOR TO BE RESPONSIBLE FOR RELOCATING PIPING AND HEADS IF ACCESS CLEARANCES ARE OBSTRUCTED.
8. PROVIDE PROTECTIVE COVERS OVER ALL HEADS LOCATED IN THE GYMNASIUM OR AREAS OF LOW HEAD HEIGHT WHERE EXPOSED HEADS MAY BE DAMAGED.
9. CONTRACTOR TO INCLUDE COST TO REMOVE AND REPLACE ALL EXISTING PIPING IN OUTLINED SCOPE OF WORK, AS THE EXISTING PIPING MAY CONFLICT WITH NEW DUCTWORK. NEW DUCTWORK HAS PRIORITY OVER NEW AND EXISTING SPRINKLER PIPING.

GENERAL SYMBOLS

- EXISTING = HALFTONE LINEWORK
- NEW = DARK LINEWORK
- DEMO = DASHED DARK LINEWORK
- BELOW GRADE = LONG DASHED DARK LINEWORK
- NEW CONNECTION POINT
- POINT OF DISCONNECT
- (#) KEYNOTE
- (XXX / X) EQUIPMENT IDENTIFICATION TAG
- (1 / A101, SIM) DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE / SHEET REFERENCE
- (1 / A101, SIM) SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE / SHEET REFERENCE
- (A101, Ref 1) INTERIOR ELEVATION DRAWING REFERENCE TAG

H.V.A.C. / DUCTWORK SYMBOLS

RECT. RND. OVAL

- SUPPLY (SA), OUTSIDE (OA), VENTILATION (VA) AIR DUCT (UP / DOWN / SECTION)
- RETURN (RA) AIR DUCT (UP / DOWN / SECTION)
- EXHAUST (EA) AIR DUCT (UP / DOWN / SECTION)
- 10/6 SA — RECTANGULAR DUCT (WIDTH / HEIGHT / SYSTEM)
- 10 Ø SA — ROUND DUCT (DIAMETER / SYSTEM)
- 10/6 Ø SA — FLAT OVAL DUCT (WIDTH / HEIGHT / SYSTEM)
- SUPPLY DIFFUSER
- SUPPLY REGISTER OR GRILLE
- LINEAR SLOT DIFFUSER
- RETURN REGISTER OR GRILLE
- EXHAUST REGISTER OR GRILLE
- AD — DUCT ACCESS DOOR
- DUCT END CAP
- TURNING VANES
- VAV TERMINAL UNIT
- FLEXIBLE DUCTWORK
- R — ELEVATION CHANGE (RISE OR DROP)
- HIGH EFF. TAKE OFF FITTING w/ VOLUME DAMPER
- BD — BACKDRAFT DAMPER
- OPPOSED BLADE DAMPER
- PARALLEL BLADE DAMPER
- VOLUME CONTROL DAMPER
- FD — FIRE DAMPER
- SD — SMOKE DAMPER
- FSD — FIRE/SMOKE DAMPER
- (M) MOTORIZED ACTUATOR
- (T) THERMOSTAT
- (C) CARBON MONOXIDE SENSOR
- (H) HUMIDISTAT
- SIDE WALL DIFFUSER
- ROUND DIFFUSER
- EXTERIOR LOUVER
- X - # / #x#/CFM — FIXTURE IDENTIFICATION TAG / NECK SIZE / CFM

PIPING LEGEND - MECHANICAL

RL	REFRIGERANT LIQUID/SUCTION LINES

PIPING LEGEND - PLUMBING

CW	DOMESTIC COLD WATER
CD	CONDENSATE
HW	DOMESTIC HOT WATER
GW	GREASE WASTE
G	NATURAL GAS
SAN	SANITARY
V	VENT

FITTINGS

- ELBOW
- ELBOW - DOUBLE BRANCH
- ELBOW - OUTLET DOWN
- ELBOW - OUTLET UP
- ELBOW - LONG RADIUS
- ELBOW - SHORT RADIUS
- 45° ELBOW
- TEE - VENT
- TEE - SANITARY
- TEE - OUTLET DOWN
- TEE - OUTLET UP
- TEE - SIDE OUTLET DOWN
- TEE - SIDE OUTLET UP
- CROSS - VENT
- CROSS - SANITARY
- LATERAL
- TEE - SINGLE SWEEP "COMBO WYE"
- REDUCER - CONCENTRIC
- REDUCER - ECCENTRIC
- CAPPED CONNECTION
- FLANGED CONNECTION

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REGISTERED PROFESSIONAL ENGINEER 98781 OREGON NOV. 09, 2021 ALI M. AL-DOSSARY
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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

MECHANICAL GENERAL NOTES & SYMBOLS

M000

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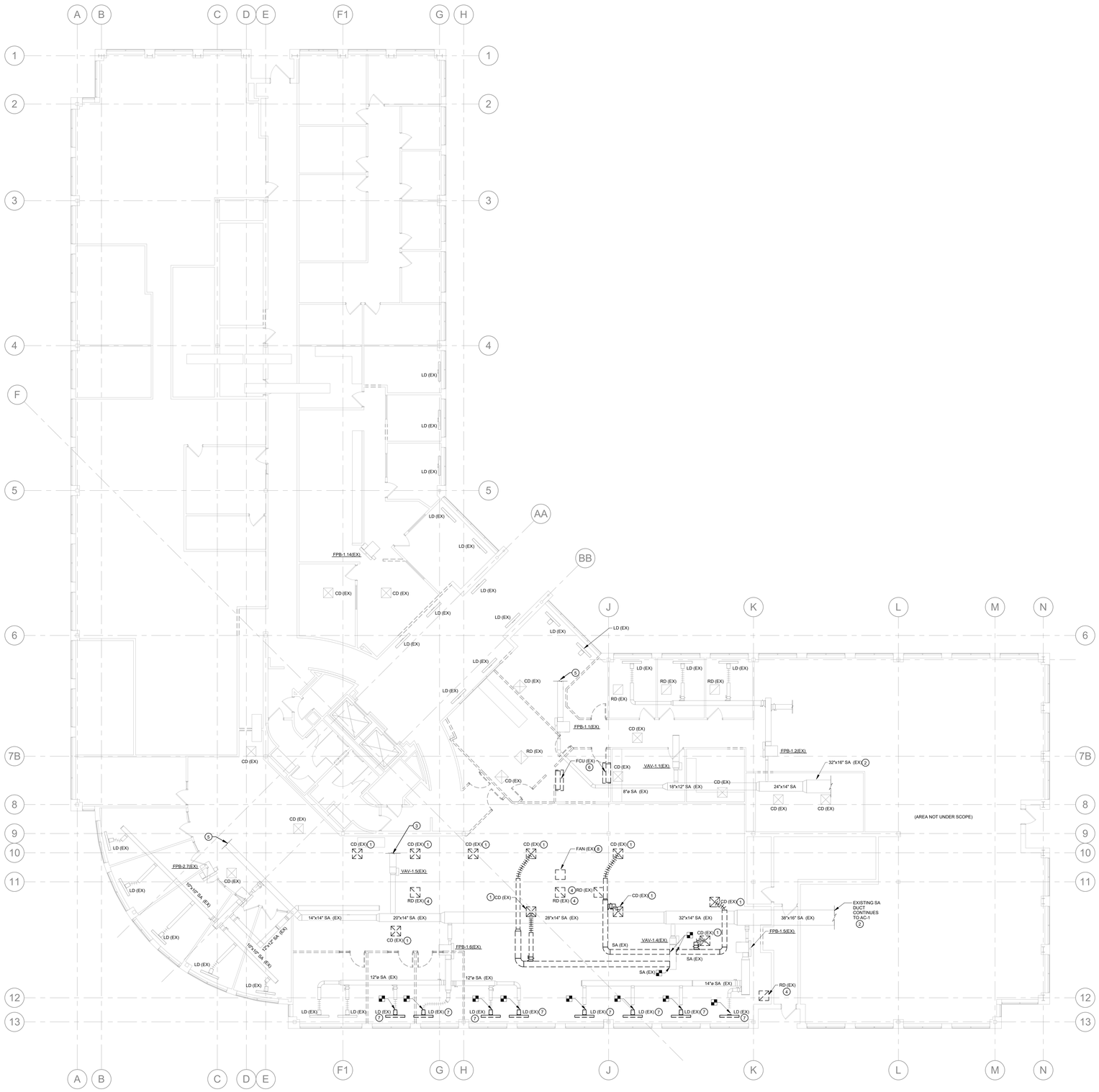

1 MECHANICAL DEMOLITION - LEVEL 1
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. PATCH WALLS, ROOFS, AND/OR FLOOR WHERE DUCTS, GRILLES, PIPES, OR EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.

C. WHERE DUCTWORK IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS.

D. WHERE EQUIPMENT IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, PIPING, AND CONTROLS.

E. WHERE CONTROLS ARE REMOVED, REMOVE ALL ASSOCIATED WIRING. PATCH WALL OPENINGS AND PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION. IN WALLS THAT CANNOT BE PATCHED, INSTALL STAINLESS STEEL COVER PLATE.

F. ALL EXISTING EQUIPMENT, DUCTWORK AND AIR TERMINALS TO REMAIN UNLESS NOTED OTHERWISE.

G. SEE SPECIFICATION SECTION 02 40 00 FOR DEMOLITION AND CUTTING & PATCHING REQUIREMENTS.

H. EXISTING DUCT TO REMAIN ARE TO BE PROTECTED DURING DEMO AND PREPARED TO TIE INTO NEW DUCT SYSTEM. SEAL EXISTING DUCT OPENINGS ONCE DETACHED FROM DUCTS SHEDULED TO BE DEMOED.

I. EXISTING EQUIPMENT BEING MODIFIED WITHIN PROJECT SCOPE; COORDINATE EQUIPMENT SHUTDOWN AND START UP PRIOR TO CONSTRUCTION.

KEYNOTES (#)

1 DEMOLISH EXISTING SUPPLY DIFFUSER AND ASSOCIATED DUCTWORK BACK TO MAIN. FIELD VERIFY ROUTING OF EXISTING DUCTWORK.
2 FIELD VERIFY ROUTING OF EXISTING DUCTWORK AS NECESSARY.
3 SUPPLY AIR CONTINUES TO SERVE AIR TERMINALS IN RESTROOM AREA. NO MECHANICAL SCOPE IN RESTROOM AREA. ALL DUCTWORK AND AIR TERMINALS ARE EXISTING TO REMAIN.
4 DEMOLISH EXISTING RETURN DIFFUSERS. PREPARE DIFFUSERS TO BE INSTALLED IN NEW LOCATION. REFER TO M101.
5 FIELD VERIFY DUCT ROUTING AS NEEDED.
6 DEMOLISH EXISTING FAN COIL UNIT, ASSOCIATED REFRIGERANT PIPING AND SUPPORTS. PATCH WALLS AND/OR CEILINGS TO MATCH EXISTING.
7 DEMOLISH EXISTING LINEAR DIFFUSER AND PLENUM. PREPARE DIFFUSER AND PLENUM TO BE REINSTALLED.
8 DEMOLISH EXISTING FAN AND ASSOCIATED SUPPORTS.

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NOV. 09, 2021
MICHAEL D. SCHMIDT
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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

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1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

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PROJECT: 21019
DATE: 02.18.2022

MECHANICAL DEMOLITION - LEVEL 1

MD101

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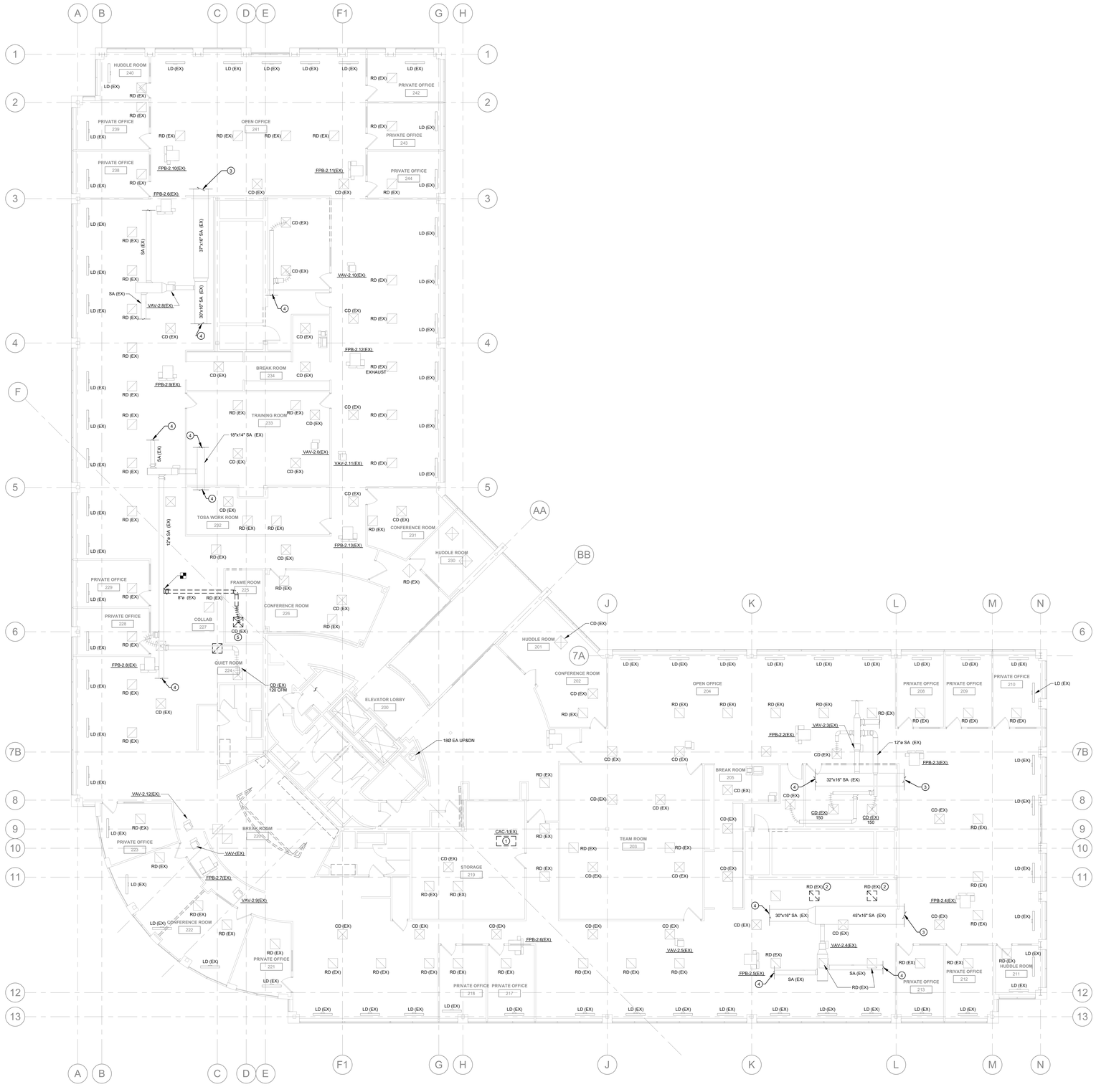

1 MECHANICAL DEMOLITION - LEVEL 2
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. PATCH WALLS, ROOFS, AND/OR FLOOR WHERE DUCTS, GRILLES, PIPES, OR EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.

C. WHERE DUCTWORK IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS.

D. WHERE EQUIPMENT IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, PIPING, AND CONTROLS.

E. WHERE CONTROLS ARE REMOVED, REMOVE ALL ASSOCIATED WIRING. PATCH WALL OPENINGS AND PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION. IN WALLS THAT CANNOT BE PATCHED, INSTALL STAINLESS STEEL COVER PLATE.

F. ALL EXISTING EQUIPMENT, DUCTWORK AND AIR TERMINALS TO REMAIN UNLESS NOTED OTHERWISE.

G. SEE SPECIFICATION SECTION 02 40 00 FOR DEMOLITION AND CUTTING & PATCHING REQUIREMENTS.

H. EXISTING DUCT TO REMAIN ARE TO BE PROTECTED DURING DEMO AND PREPARED TO TIE INTO NEW DUCT SYSTEM. SEAL EXISTING DUCT OPENINGS ONCE DETACHED FROM DUCTS SHEDULED TO BE DEMOED.

I. EXISTING EQUIPMENT BEING MODIFIED WITHIN PROJECT SCOPE; COORDINATE EQUIPMENT SHUTDOWN AND START UP PRIOR TO CONSTRUCTION.

KEYNOTES #

1 DEMOLISH EXISTING MECHANICAL EQUIPMENT, INCLUDING ALL ASSOCIATED PIPING AND SUPPORTS.
2 DEMOLISH EXISTING AIR TERMINAL.
3 EXISTING SUPPLY AIR DUCT CONTINUES TO SUPPLY AIR RISER. FIELD VERIFY LOCATION AND ROUTING AS NECESSARY.
4 FIELD VERIFY DUCT ROUTING AS NEEDED.
5 DEMOLISH EXISTING SUPPLY DIFFUSER AND ASSOCIATED DUCT BACK TO MAIN. FRAME ROOM TO BE CONDITIONED BY NEW FAN COIL UNIT.

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1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

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PROJECT: 21019
DATE: 02.18.2022

MECHANICAL DEMOLITION - LEVEL 2

MD102

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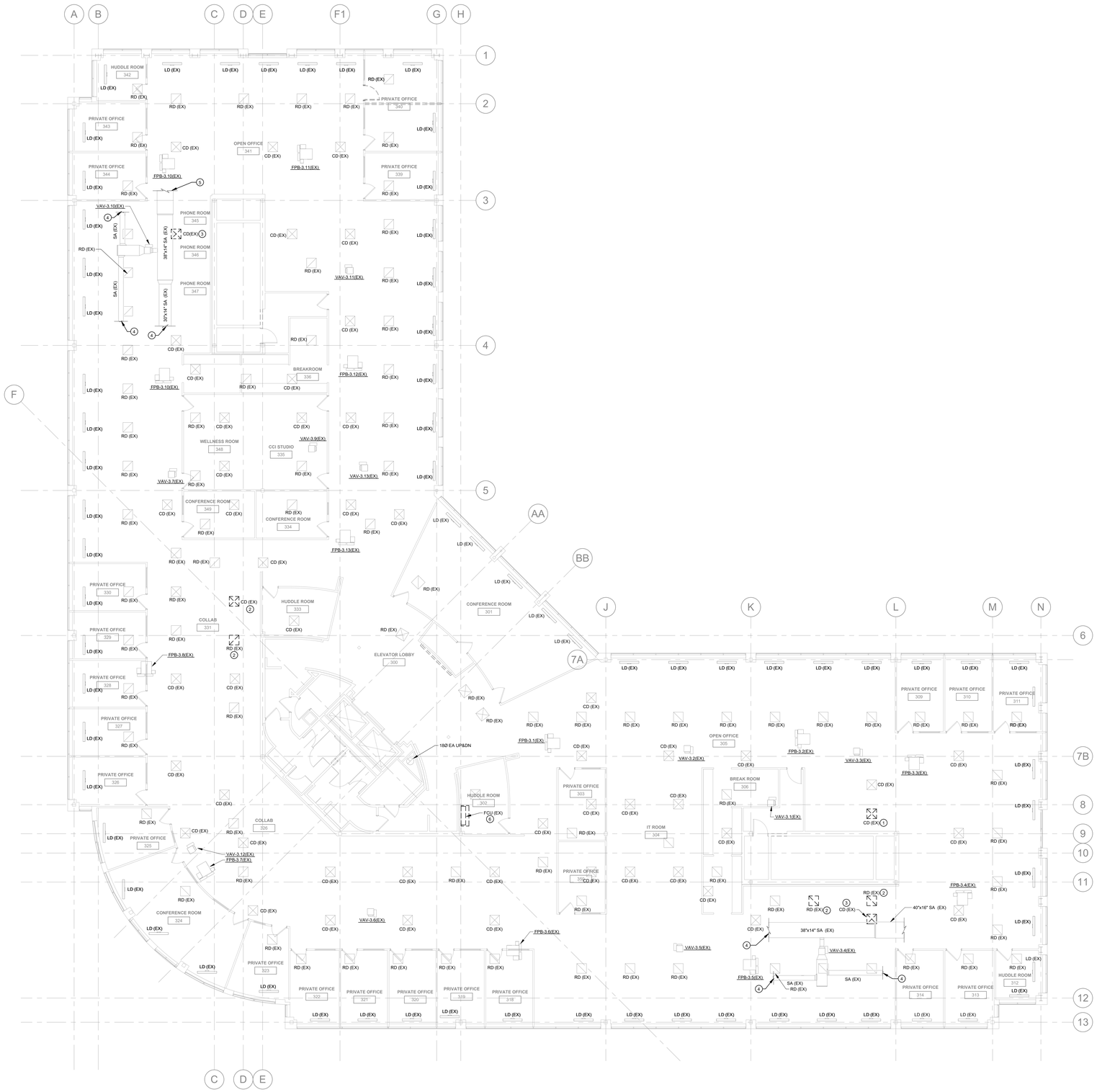

1 MECHANICAL DEMOLITION - LEVEL 3
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. PATCH WALLS, ROOFS, AND/OR FLOOR WHERE DUCTS, GRILLES, PIPES, OR EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.

C. WHERE DUCTWORK IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS.

D. WHERE EQUIPMENT IS REMOVED, REMOVE ALL ASSOCIATED SUPPORTS, DUCTWORK, PIPING, AND CONTROLS.

E. WHERE CONTROLS ARE REMOVED, REMOVE ALL ASSOCIATED WIRING. PATCH WALL OPENINGS AND PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION. IN WALLS THAT CANNOT BE PATCHED, INSTALL STAINLESS STEEL COVER PLATE.

F. ALL EXISTING EQUIPMENT, DUCTWORK AND AIR TERMINALS TO REMAIN UNLESS NOTED OTHERWISE.

G. SEE SPECIFICATION SECTION 02 40 00 FOR DEMOLITION AND CUTTING & PATCHING REQUIREMENTS.

H. EXISTING DUCT TO REMAIN ARE TO BE PROTECTED DURING DEMO AND PREPARED TO TIE INTO NEW DUCT SYSTEM. SEAL EXISTING DUCT OPENINGS ONCE DETACHED FROM DUCTS SHEDULED TO BE DEMOED.

I. EXISTING EQUIPMENT BEING MODIFIED WITHIN PROJECT SCOPE; COORDINATE EQUIPMENT SHUTDOWN AND START UP PRIOR TO CONSTRUCTION.

KEYNOTES #

1 DEMOLISH EXISTING SUPPLY DIFFUSER. EXISTING SPACE TO BE SUBDIVIDED INTO TWO SEPARATE SPACES. PREPARE DIFFUSER TO BE REINSTALLED IN NEW PRIVATE OFFICE SPACE.
2 DEMOLISH EXISTING AIR TERMINAL.
3 DEMOLISH EXISTING CEILING DIFFUSER AND ASSOCIATED DUCT BACK TO MAIN SUPPLY DUCT. FIELD VERIFY LOCATION AND ROUTING OF EXISTING DUCTWORK.
4 FIELD VERIFY DUCT ROUTING AS NEEDED.
5 EXISTING SUPPLY AIR DUCT CONTINUES TO SUPPLY AIR RISER. FIELD VERIFY LOCATION AND ROUTING AS NECESSARY.
6 DEMOLISH EXISTING FAN COIL UNIT, ASSOCIATED REFRIGERANT PIPING AND SUPPORTS. PATCH WALLS AND/OR CEILINGS TO MATCH EXISTING.

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DATE: 02.18.2022

MECHANICAL DEMOLITION - LEVEL 3

MD103

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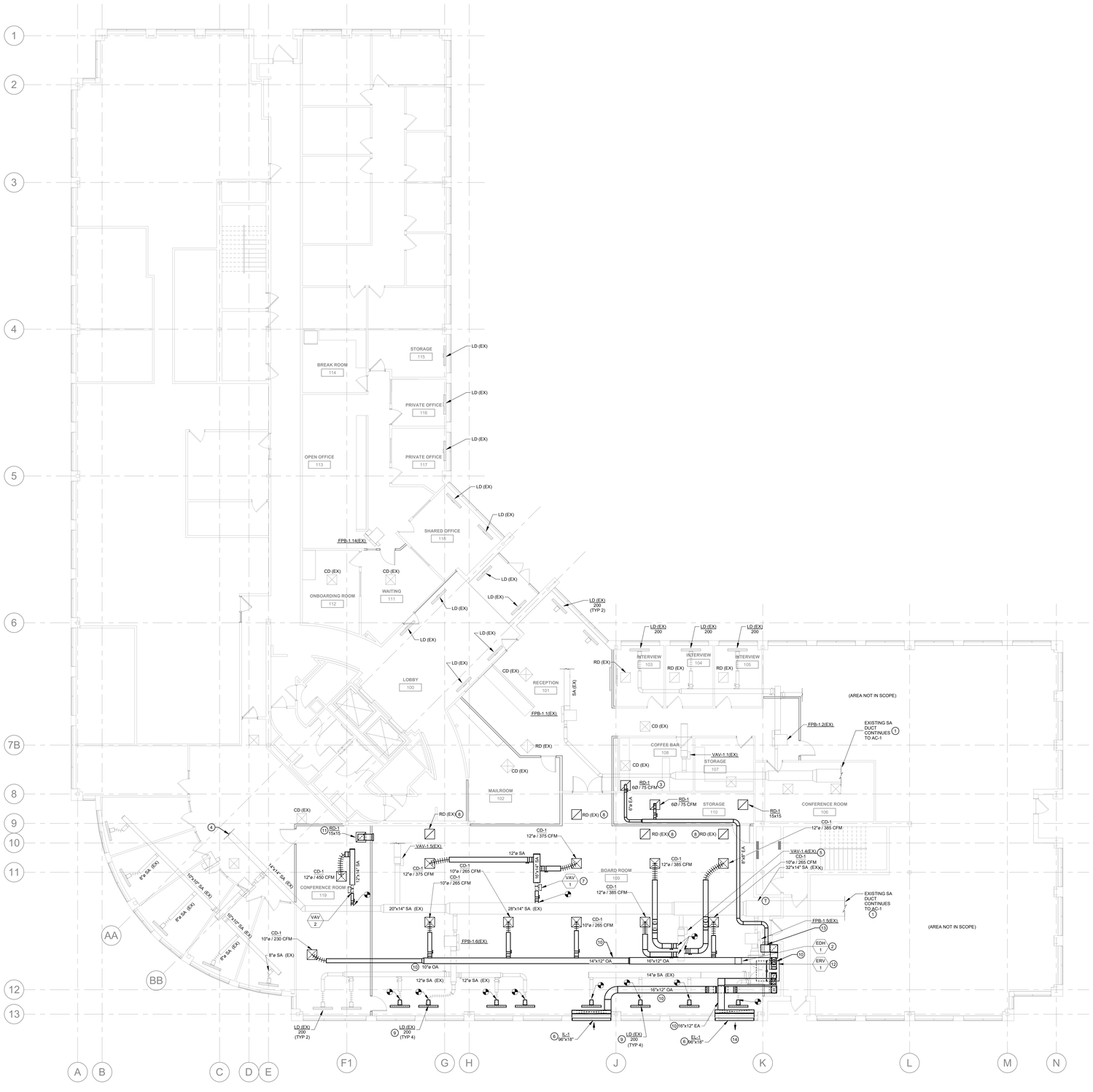

2 MECHANICAL HVAC PLAN - LEVEL 1
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. REFER TO M300 FOR MECHANICAL DETAILS.

C. REFER TO M500 FOR MECHANICAL SCHEDULES.

D. BRANCH DUCT SIZES TO AIR TERMINALS SHALL MATCH NECK SIZE OF GRILLE, REGISTER, OR DIFFUSER UNLESS NOTED OTHERWISE.

E. MAXIMUM FLEXIBLE DUCT LENGTH TO DIFFUSERS SHALL BE 60", WITH MAXIMUM OF ONE 90 DEGREE ELBOW.

F. BRANCH DUCT SIZES TO TERMINAL AIR BOXES SHALL MATCH INLET SIZE, UNLESS NOTED OTHERWISE.

G. ROUTE AND SIZE REFRIGERANT PIPING PER MANUFACTURER RECOMMENDATIONS.

H. EXISTING EQUIPMENT BEING MODIFIED WITHIN PROJECT SCOPE; COORDINATE EQUIPMENT SHUTDOWN AND START UP PRIOR TO CONSTRUCTION.

I. MECHANICAL CONTRACTOR TO PROVIDE PRE-CONSTRUCTION TEST & BALANCING OF EXISTING SYSTEM PRIOR TO WORK. COPY OF REPORT OF EXISTING AIRFLOWS AND SYSTEM PERFORMANCE TO BE PROVIDED TO OWNER AND ARCH. FINAL TEST & BALANCING TO COMMENCE AFTER COMPLETION OF NEW SYSTEM ALTERATIONS. REFER TO SPECIFICATION SECTION 230593.

KEYNOTES (#)

1 FIELD VERIFY ROUTING OF EXISTING DUCTWORK AS NECESSARY.

2 MAINTAIN A MINIMUM OF 3 FT CLEARANCE IN FRONT OF DUCT HEATER CONTROLS. FIELD COORDINATE WITH EXISTING DUCTWORK/EQUIPMENT ABOVE CEILING. INSTALL DUCT HEATER A MINIMUM OF 3 EQUIVALENT DUCT DIAMETERS FROM ERV OUTLET AND FITTINGS. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.

3 EXHAUST FROM BREAK ROOM THROUGH ERV-1.

4 SUPPLY AIR MAIN CONTINUES TO OTHER SPACES. FIELD VERIFY ROUTING AS NECESSARY.

5 CONNECT NEW SA BRANCHES TO EXISTING SA DUCT FROM EXISTING VAV-1.4. FIELD VERIFY EXACT LOCATION OF VAV-1.4. BALANCE NEW CEILING DIFFUSERS TO AIRFLOW SHOWN.

6 COORDINATE LOUVER LOCATION WITH EXISTING STRUCTURE. CONNECT NEW DUCT TO FIELD CONSTRCTUED PLENUM BEHIND LOUVER. COORDINATE PLENUM LOCATION WITH EXISTING PERIMETER DIFFUSERS. REFER TO 4/M300 AND TO ARCHITECTURAL PLANS FOR ADDITIONAL LOUVER/STRUCTURE DETAILS. EXISTING DIFFUSERS TO BE RELOCATED TO NEXT CEILING GRID TO PROVIDE ROOM FOR PLEENUM.

7 CONNECT NEW VAV-1 TO EXISTING SUPPLY AIR DUCT. COORDINATE EXACT LOCATION OF VAV BOX SUCH THAT PROPER MAINTENANCE ACCESS IS POSSIBLE THROUGH ACOUSTIC CEILING TILES.

8 REINSTALL EXISTING RETURN DIFFUSER AT THIS LOCATION.

9 REINSTALL LINEAR DIFFUSER AND PLENUM AT LOCATION SHOWN. NEW LOCATION TO ALLOW FOR ENOUGH SPACE TO INSTALL INATAKE AND EXHAUST LOUVER PLENUMS.

10 COORDINATE NEW DUCTWORK TO SERVE ERV-1 WITH EXISTING DUCTWORK AND EQUIPMENT ABOVE CEILING. LOCATION OF EXISTING DUCTWORK AND EQUIPMENT IS APPROXIMATE AND BASED ON EXISTING DRAWINGS. FIELD VERIFY ROUTING.

11 CEILING MOUNTED RETURN GRILLE WITH LINED ACOUSTIC DUCT BOOT. SEE DETAIL 6/M300.

12 ERV-1 IN CLOSET. INSTALL ACOUSTIC LINING IN FRESH AIR AND RETURN AIR DUCTS WITHIN CLOSET. PROVIDE 10 FT OF ACOUSTIC LINING IN FRESH AIR DUCT FROM ERV-1. UNDUCTED RETURN TO ERV-1. CONNECT 6X8 INCH EXHAUST AIR DUCT FROM BREAK ROOM TO RETURN AIR INTAKE AT ERV. REFER TO ISOMETRIC VIEW ON M300.

13 FIELD VERIFY ANY CONFLICTS BETWEEN NEW ERV DUCTWORK AND EXISTING DUCTWORK CONNECTED TO FPB-1.5. MOVE EXISTING FPB-1.5 AS NECESSRY IF CONFLICT EXISTS.

14 SECTION OF ERV-1 CLOSET ONLY. REFER TO 11/M300. REFER TO 10/M300 FOR ISOMETRIC VIEW.

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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

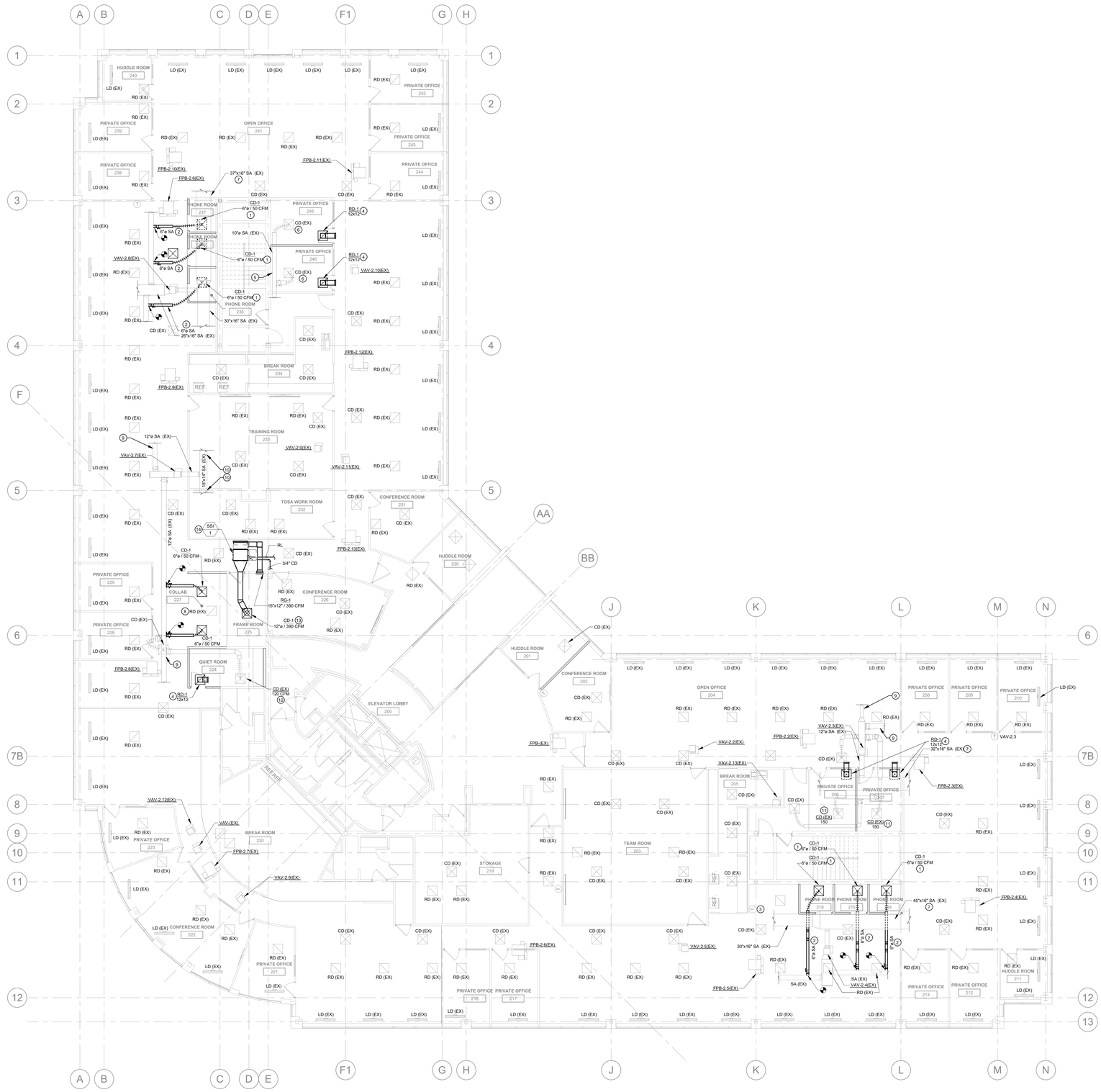
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

MECHANICAL HVAC PLAN - LEVEL 1

M101

2/18/2022 10:01:38 AM



1 MECHANICAL HVAC PLAN - LEVEL 2
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. REFER TO M300 FOR MECHANICAL DETAILS.

C. REFER TO M500 FOR MECHANICAL SCHEDULES.

D. BRANCH DUCT SIZES TO AIR TERMINALS SHALL MATCH NECK SIZE OF GRILLE, REGISTER, OR DIFFUSER UNLESS NOTED OTHERWISE.

E. MAXIMUM FLEXIBLE DUCT LENGTH TO DIFFUSERS SHALL BE 60", WITH MAXIMUM OF ONE 90 DEGREE ELBOW.

F. BRANCH DUCT SIZES TO TERMINAL AIR BOXES SHALL MATCH INLET SIZE, UNLESS NOTED OTHERWISE.

G. ROUTE AND SIZE REFRIGERANT PIPING PER MANUFACTURER RECOMMENDATIONS.

H. EXISTING EQUIPMENT BEING MODIFIED WITHIN PROJECT SCOPE; COORDINATE EQUIPMENT SHUTDOWN AND START UP PRIOR TO CONSTRUCTION.

I. MECHANICAL CONTRACTOR TO PROVIDE PRE-CONSTRUCTION TEST & BALANCING OF EXISTING SYSTEM PRIOR TO WORK. COPY OF REPORT OF EXISTING AIRFLOWS AND SYSTEM PERFORMANCE TO BE PROVIDED TO OWNER AND ARCH. FINAL TEST & BALANCING TO COMMENCE AFTER COMPLETION OF NEW SYSTEM ALTERATIONS. REFER TO SPECIFICATION SECTION 230593.

KEYNOTES (#)

1 NEW SUPPLY AIR DIFFUSER. BALANCE TO AIRFLOW SHOWN. REDUCE AIRFLOW TO EXISTING DIFFUSERS IN CORRIDOR BY THE SAME AMOUNT. RETURN AIR PATH UNDER DOOR. COORDINATE EXACT LOCATION OF DIFFUSER AND NEW SUPPLY AIR DUCT ROUTING WITH EXISTING DUCTS, EQUIPMENT AND STRUCTURE.

2 COORDINATE ALL NEW DUCTWORK ROUTING WITH EXISTING DUCTWORK AND EQUIPMENT.

3 RELOCATE EXISTING THERMOSTAT FOR EXISTING VAV-2.4 TO NEW LOCATION AS SHOWN.

4 CEILING MOUNTED RETURN GRILLE WITH LINED ACOUSTIC DUCT BOOT. SEE DETAIL 6/M300.

5 ROOMS SERVED BY EXISTING VAV-2.9. FIELD VERIFY ROUTING AS NECESSARY.

6 PRIVATE OFFICE 245 AND PRIVATE OFFICE 246 RESULT FROM THE SUBDIVISION OF A LARGER SPACE. EACH OF THE TWO CEILING DIFFUSERS SERVING THE PREVIOUS SPACE END UP IN EACH OF THE NEW ROOMS AND ARE EXISTING TO REMAIN.

7 EXISTING SUPPLY AIR DUCT CONTINUES TO SUPPLY AIR RISER. FIELD VERIFY LOCATION AND ROUTING AS NECESSARY.

8 RETURN AIR DIFFUSER EXISTING TO REMAIN.

9 SUPPLY AIR DUCT CONTINUES TO OTHER SPACES. FIELD VERIFY ROUTING AS NECESSARY.

10 SUPPLY AIR MAIN CONTINUES TO OTHER SPACES. FIELD VERIFY ROUTING AS NECESSARY.

11 REBALANCE EXISTING SUPPLY AIR TERMINALS AS SHOWN.

12 BALANCE EXISTING CEILING DIFFISER IN MOTHERS ROOM 224 TO 120 CFM. REBALANCE EXISTING DIFFUSERS IN CORRIDOR AND COMMON AREAS SERVED BY VAV-2.7 ACCORDINGLY.

13 CONNECT DIFFUSER TO FAN COIL UNIT SUPPLY PLENUM. DIFFUSER TO BE SET UP IN 4-WAY CONFIGURATION. PLACE DIFFUSER BETWEEN RUNS OF CABLE TRAY AND BETWEEN LIGHTING FIXTURES. REFER TO ELCTRICAL AND TECHNOLOGY PLANS.

14 ROUTE CONDENSATE DRAIN TO NEAREST FLOOR DRAIN/MOP BASIN. ROUTE REFRIGERANT LINES TO OUTDOOR UNIT ON ROOF. CONTRACTOR TO FIELD VERIFY ROUTING UP TO ROOF VIA EXISTING MECHANICAL SHAFT.

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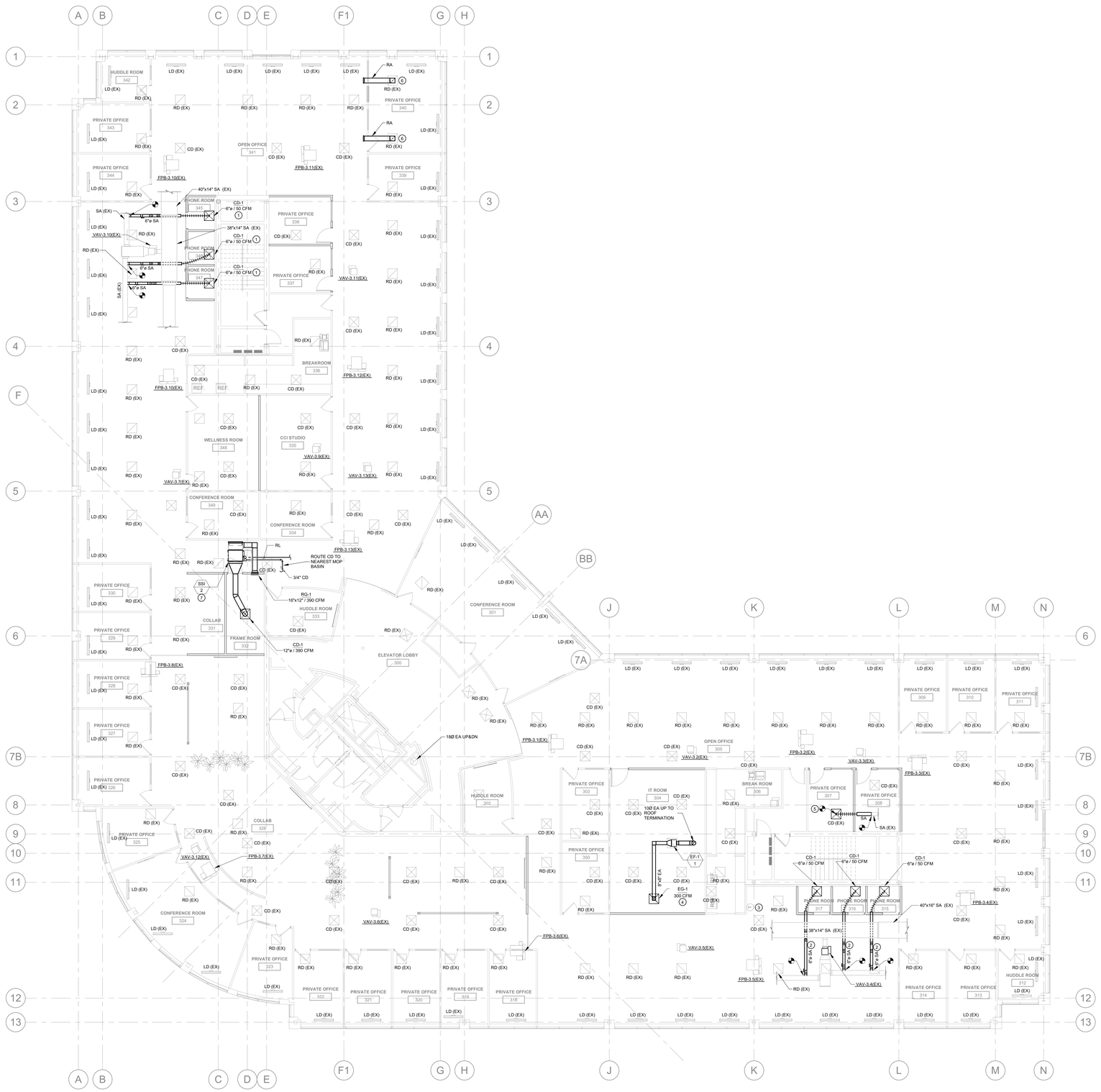
PROJECT: 21019
DATE: 02.18.2022

MECHANICAL HVAC PLAN - LEVEL 2

M102

2/18/2022 10:01:43 AM



1 MECHANICAL HVAC PLAN - LEVEL 3
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. REFER TO M300 FOR MECHANICAL DETAILS.

C. REFER TO M500 FOR MECHANICAL SCHEDULES.

D. BRANCH DUCT SIZES TO AIR TERMINALS SHALL MATCH NECK SIZE OF GRILLE, REGISTER, OR DIFFUSER UNLESS NOTED OTHERWISE.

E. MAXIMUM FLEXIBLE DUCT LENGTH TO DIFFUSERS SHALL BE 60", WITH MAXIMUM OF ONE 90 DEGREE ELBOW.

F. BRANCH DUCT SIZES TO TERMINAL AIR BOXES SHALL MATCH INLET SIZE, UNLESS NOTED OTHERWISE.

G. ROUTE AND SIZE REFRIGERANT PIPING PER MANUFACTURER RECOMMENDATIONS.

H. EXISTING EQUIPMENT BEING MODIFIED WITHIN PROJECT SCOPE; COORDINATE EQUIPMENT SHUTDOWN AND START UP PRIOR TO CONSTRUCTION.

I. MECHANICAL CONTRACTOR TO PROVIDE PRE-CONSTRUCTION TEST & BALANCING OF EXISTING SYSTEM PRIOR TO WORK. COPY OF REPORT OF EXISTING AIRFLOWS AND SYSTEM PERFORMANCE TO BE PROVIDED TO OWNER AND ARCH. FINAL TEST & BALANCING TO COMMENCE AFTER COMPLETION OF NEW SYSTEM ALTERATIONS. REFER TO SPECIFICATION SECTION 230593.

KEYNOTES (#)

1 NEW SUPPLY AIR DIFFUSER. BALANCE TO AIRFLOW SHOWN. REDUCE AIRFLOW TO EXISTING DIFFUSERS IN CORRIDOR BY THE SAME AMOUNT. RETURN AIR PATH UNDER DOOR. COORDINATE EXACT LOCATION OF DIFFUSER AND NEW SUPPLY AIR DUCT ROUTING WITH EXISTING DUCTS, EQUIPMENT AND STRUCTURE.

2 COORDINATE ALL NEW DUCTWORK ROUTING WITH EXISTING DUCTWORK AND EQUIPMENT.

3 RELOCATE THERMOSTAT FOR EXISTING VAV-3.4 TO NEW LOCATION AS SHOWN.

4 COORDINATE FINAL LOCATION OF EXHAUST AIR INLET WITH SCHOOL DISTRICT FACILITIES.

5 REINSTALL PREVIOUSLY REMOVED DIFFUSER IN NEW PRIVATE OFFICE 307. EXTEND EXISTING SUPPLY AIR DUCT AS NEEDED. KEEP LENGTH OF FLEX DUCT TO A MINIMUM OF 5'. FIELD VERIFY ROUTING OF EXISTING DUCTWORK.

6 WALL TO EXTEND UP TO DECK. DUCT RETURN THROUGH NEW WALL FOR RETURN AIR PATH TO AHU RETURN AIR PLENUM. CEILING MOUNTED RETURN DIFFUSER WITH LINED ACOUSTIC RETURN BOOT. SEE DETAIL 6/M300.

7 ROUTE CONDENSATE DRAIN TO NEAREST FLOOR DRAIN/MOP BASIN. ROUTE REFRIGERANT LINES TO OUTDOOR UNIT ON ROOF. CONTRACTOR TO FIELD VERIFY ROUTING UP TO ROOF VIA EXISTING MECHANICAL SHAFT.

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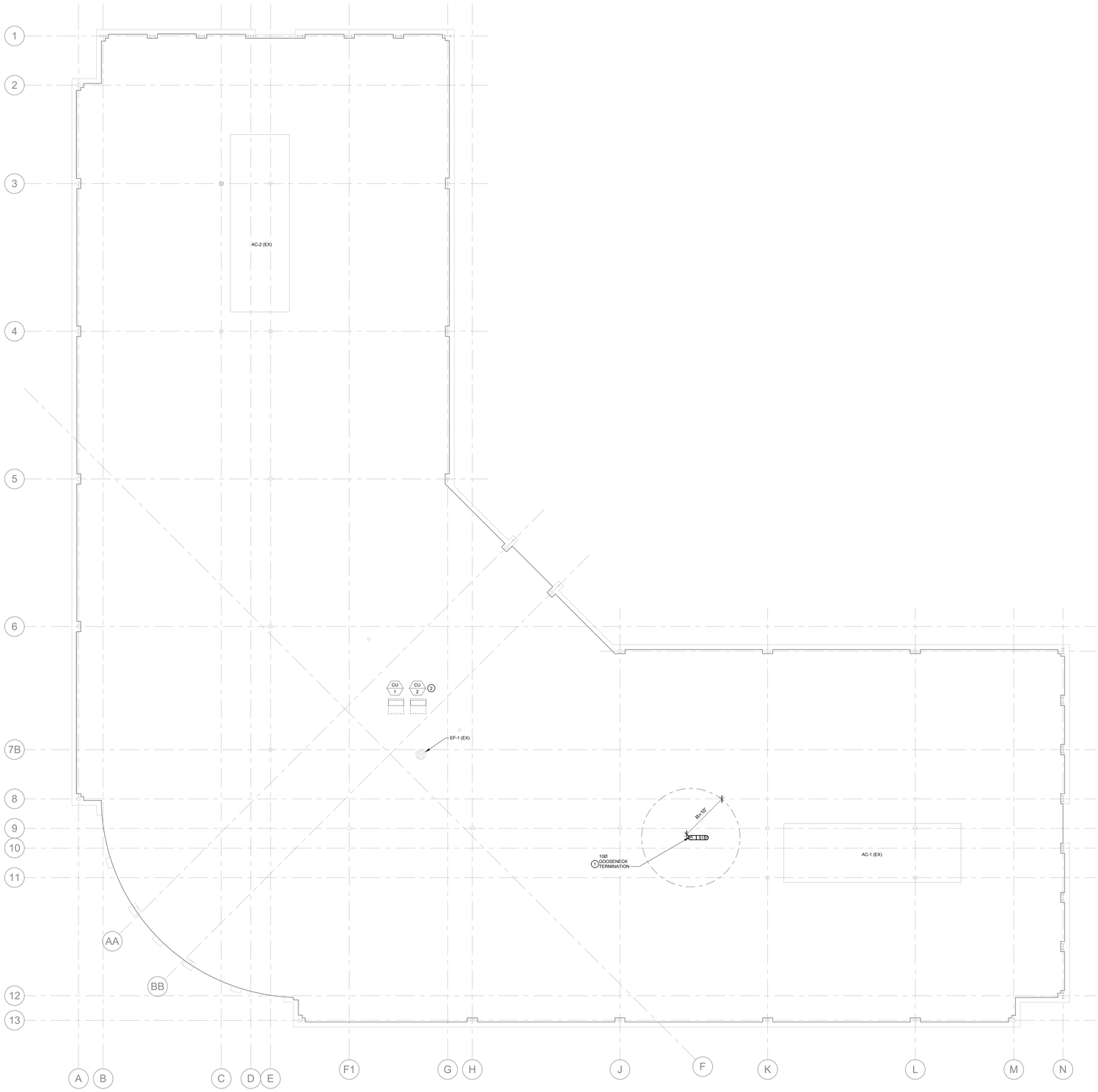
DATE: 02.18.2022

MECHANICAL HVAC PLAN - LEVEL 3

M103

2/18/2022 10:01:47 AM



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

GENERAL NOTES

A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. REFER TO M300 FOR MECHANICAL DETAILS.

C. REFER TO M500 FOR MECHANICAL SCHEDULES.

D. EXISTING AHU-1&2 TO REMAIN. PROVIDE MAINTENANCE SERVICE AND RUN START-UP PROCEDURE. WORK PER AHU TO INCLUDE, BUT NOT LIMITED TO THE FOLLOWING: VACUUM DUST AND DEBRIS IN UNIT, CLEAN COILS WITH MANUFACTURER APPROVED SOLUTION/METHOD. REPLACE ALL EXISTING SEALS AND BELTS AS NEEDED. REPLACE FILTERS WITH LOW PRESSURE DROP MERV-13 FILTERS. REBALANCE SYSTEM AS NEEDED TO ACCOMODATE SYSTEM CHANGES.

E. ROUTE AND SIZE REFRIGERANT PIPING PER MANUFACTURER RECOMMENDATIONS.

F. MECHANICAL CONTRACTOR TO PROVIDE PRE-CONSTRUCTION TEST & BALANCING OF EXISTING SYSTEM PRIOR TO WORK. COPY OF REPORT OF EXISTING AIRFLOWS AND SYSTEM PERFORMANCE TO BE PROVIDED TO OWNER AND ARCH. FINAL TEST & BALANCING TO COMMENCE AFTER COMPLETION OF NEW SYSTEM ALTERATIONS. REFER TO SPECIFICATION SECTION 230593.

KEYNOTES #

1 TERMINATE EXHAUST ON ROOF WITH GOOSENECK. MAINTAIN A MINIMUM OF 10 FT BETWEEN EXHAUST TERMINATON AND EXISTING MECHANICAL AIR INTAKES. SEE DETAIL 7/M300.

2 LOCATE NEW CONDENSING UNITS ONTO EXISTING BUILT UP CURB AREA.

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DATE: 02.18.2022

MECHANICAL HVAC PLAN - ROOF

M104

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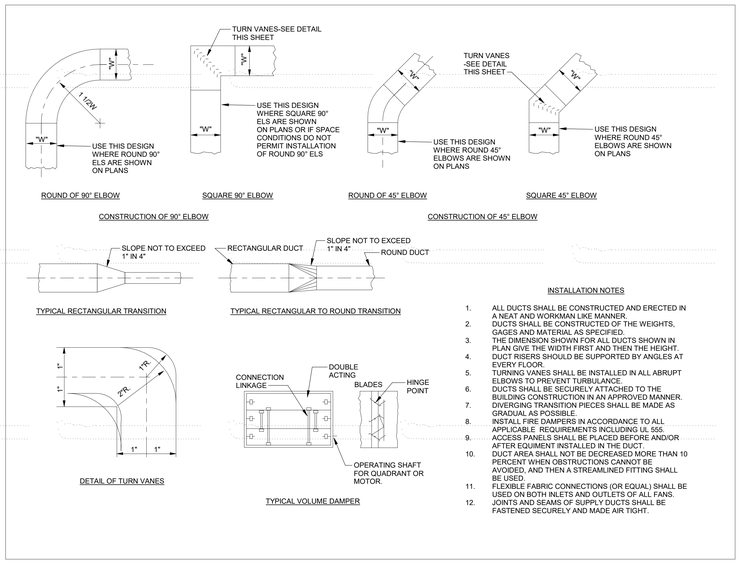
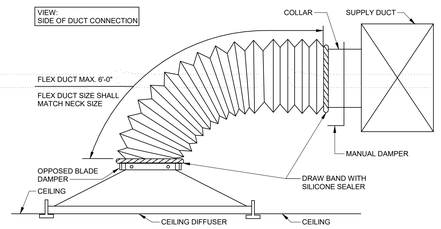


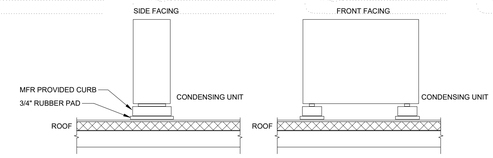
INSTALLATION NOTES

1. ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMAN LIKE MANNER.
2. DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS, GAGES AND MATERIAL AS SPECIFIED.
3. THE DIMENSION SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
4. DUCT RISERS SHOULD BE SUPPORTED BY ANGLES AT EVERY FLOOR.
5. TURNING VANES SHALL BE INSTALLED IN ALL ABRUPT ELBOWS TO PREVENT TURBULANCE.
6. DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
7. DIVERGING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
8. INSTALL FIRE DAMPERS IN ACCORDANCE TO ALL APPLICABLE REQUIREMENTS INCLUDING UL 555.
9. ACCESS PANELS SHALL BE PLACED BEFORE AND/OR AFTER EQUIMENT INSTALLED IN THE DUCT.
10. DUCT AREA SHALL NOT BE DECREASED MORE THAN 10 PERCENT WHEN OBSTRUCTIONS CANNOT BE AVOIDED, AND THEN A STREAMLINED FITTING SHALL BE USED.
11. FLEXIBLE FABRIC CONNECTIONS (OR EQUAL) SHALL BE USED ON BOTH INLETS AND OUTLETS OF ALL FANS. JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE FASTENED SECURELY AND MADE AIR TIGHT.

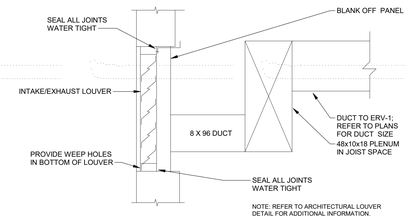
1 DETAILS OF THE LOW VELOCITY DUCT LAYOUT
NOT TO SCALE



2 TYPICAL DIFFUSER CONNECTION
NOT TO SCALE

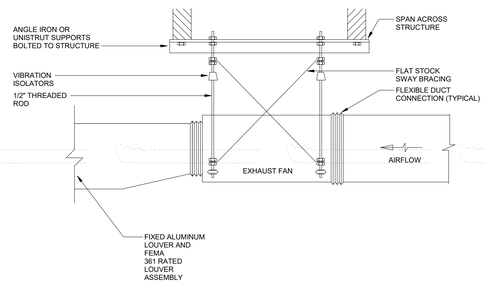


3 CONDENSING UNIT ON ROOF
NOT TO SCALE



NOTE: REFER TO ARCHITECTURAL LOUVER DETAIL FOR ADDITIONAL INFORMATION.

4 LOUVER DETAIL
NOT TO SCALE



5 INLINE EXHAUST FAN DETAIL
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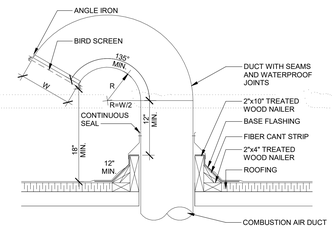
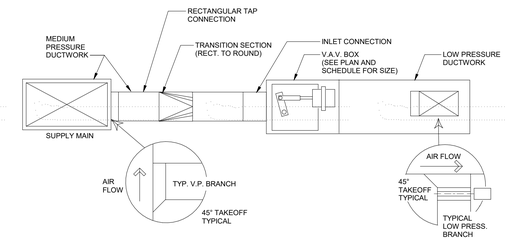
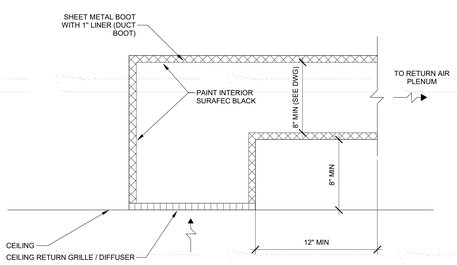


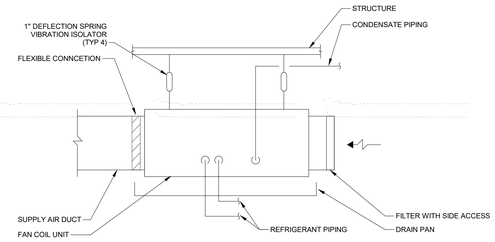
7 ROOF MOUNTED GOOSENECK
NOT TO SCALE



8 VARIABLIR AIR VOLUME TERMINAL BIX
NOT TO SCALE

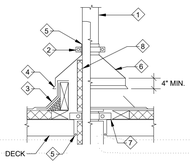


6 CEILING RETURN ACOUSTIC BOOT
NOT TO SCALE



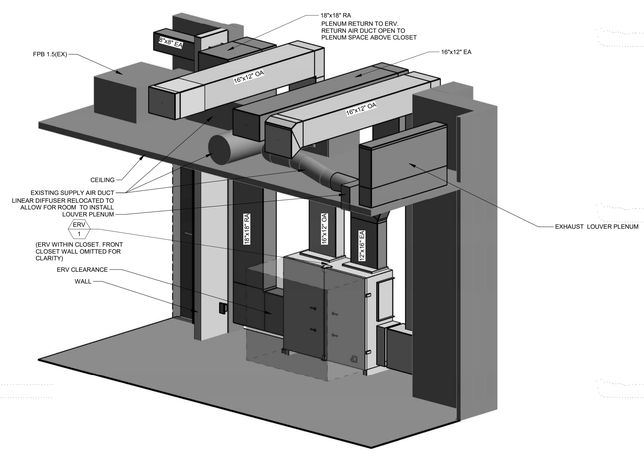
1. REFER TO PLANS FOR SIZES AND CONTINUATION
2. COORDINATE WITH STRUCTURE FOR EQUIPMENT SUPPORTS
3. LOCATE ISOLATION VALVES IN ACCESSIBLE LOCATION

9 FAN COIL SUSPENDED
NOT TO SCALE



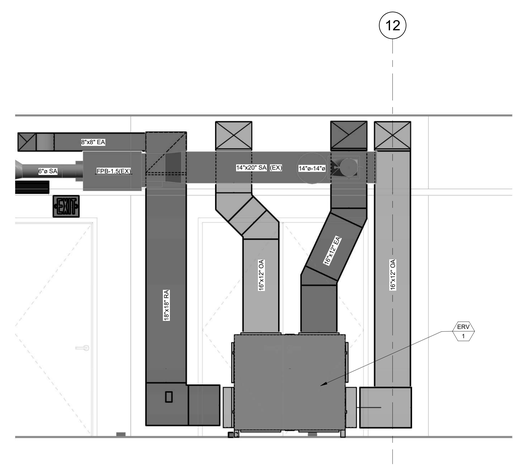
1. PIPE: REFER TO MFR FOR SIZE & TERMINATION.
2. CLAMP FLASHING TO PIPE.
3. CURB, CANT, AND ROOFING BY MECHANICAL CONTRACTOR.
4. COUNTER FLASHING BY MECHANICAL CONTRACTOR.
5. SEAL ALL OPENINGS WITH NON-HARDENING CAULK; IF OPERATING SURFACE TEMPERATURE WILL EXCEED 180 DEGREES F. USE METALBESTOS P-600 OR P-2000E JOINT SEALANT.
6. TRANSITION FROM CURB TO OUTSIDE OF PIPE.
7. RISER CLAMP: SUPPORT ON ROOF DECK.
8. IF PIPE IS INSULATED, CARRY INSULATION UP INTO CURB.

12 REFRIGERANT PIPE PENETRATION THRU ROOF
NOT TO SCALE



NOTE: COORDINATE ALL NEW AND EXISTING DUCTWORK BASED ON ACTUAL FIELD CONDICITONS.

10 ERV CLOSET
NOT TO SCALE



NOTE: COORDINATE ALL NEW AND EXISTING DUCTWORK BASED ON ACTUAL FIELD CONDICITONS.

11 ERV MECHANICAL CLOSET
NOT TO SCALE

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SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

MECHANICAL DETAILS

M300

2/18/2022 10:19:39 AM

CONTROL DIAGRAM SYMBOLS

TS	TEMPERATURE SENSOR AS INDICATED
M	24V DAMPER/VALVE MOTOR
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
ADJ	ADJUSTABLE

GENERAL CONTROL NOTES:

TEMPERATURE CONTROL CONTRACTOR TO PROVIDE A COMPLETE CONTROL SYSTEM. INCLUDING SENSORS, RELAYS, WIRING, CONDUIT, CONTROLLERS, AND OTHER COMPONENTS. INSTALL ALL CONTROL COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS. TCC TO INSTALL ALL MFR PROVIDED CONTROLS COMPONENTS FURNISHED LOOSE FROM FACTORY.

ALL DIFFERENTIAL / STATIC PRESSURE TRANSMITTERS ARE TO BE HARDWIRED BACK TO THEIR CONTROLLERS IN LIEU OF BEING TRANSMITTED OVER THE COMMUNICATION NETWORK.

ALL SENSORS ARE TO BE SUPPLIED WITH APPROPRIATE RANGES TO ACCOMPLISH STATED CONTROL SEQUENCES.

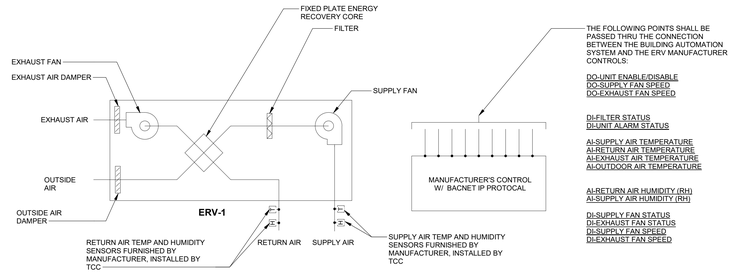
TCC TO PROVIDE A FULL GRAPHICS CONTROL PACKAGE AS PART OF PROJECT.

DIAGRAMS ARE SCHEMATIC. PROVIDE ADDITIONAL POINTS WHERE REQUIRED TO MEET SEQUENCE OF CONTROL. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAIL.

COORDINATE WITH EC ON REQUIRED POWER REQUIREMENTS AND LOCATIONS.
UNLESS STATED OTHER, ELECTRICAL CONTRACTOR IS TO PROVIDE ALL LINE VOLTAGE POWER AND CONDUIT FOR CONTROL SYSTEM AND ALL CODE REQUIRED HARD WIRED POINTS FOR INTERACTION WITH FIRE ALARM SHUTDOWN.

MECHANICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL CONTROL VALVES, DAMPERS, AND DAMPER ACTUATORS.

BACNET PROTOCOL SHALL BE IP/MSTP.



CONTROL SEQUENCE

ENERGY RECOVERY VENTILATOR SHALL BE CONTROLLED BY THE MANUFACTURER'S FACTORY FURNISHED CONTROLLER W/ BACNET IP TO INTERFACE WITH BUILDING MANAGMENT SYSTEM. ENERGY RECOVERY UNIT SHALL BE ENABLED AND DISABLED BY THE BAS. UNIT SHALL BE ENABLED/DISABLED PER USER DEFINED SCHEDULE.

SUPPLY FANS SHALL BE CONSTANT VOLUME.

REFER TO ELECTRIC DUCT HEATER CONTROLS DIAGRAM FOR INTERLOCKED SOO.

INTERLOCKS

THE UNIT SHALL BE DISABLED ON ACTIVATION OF THE FIRE ALARM SYSTEM. UNIT SHALL AUTO RESET WHEN ALARM IS CLEARED. OUTDOOR AIR AND EXHAUST DAMPERS SHALL CLOSE WHEN UNIT IS DISABLED/OFF.

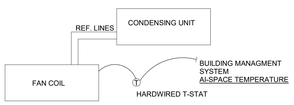
ALARMS

AN ALARM SHALL BE GENERATED AT THE BAS IF ANY OF THE FOLLOWING OCCUR:
- THE SUPPLY AIR TEMPERATURE IS 10°F (ADJ.) OR MORE OFF SETPOINT FOR MORE THAN 10 MIN (ADJ.).
- THE ERV CONTROLLER INDICATES A GENERAL ALARM.
- FILTER STATUS INDICATES A FILTER ALARM

TRENDS

ALL POINTS SHALL BE HISTORICALLY TRENDED AT 15 MIN. INTERVALS OVER A MINIMUM 7 DAY PERIOD OF TIME.

1 ERV-1 CONTROLS

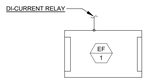


CONTROL SEQUENCE

SPLIT SYSTEM HEAT PUMP SHALL RUN TO MAINTAIN SETPOINT AT STANDALONE THERMOSTAT PROVIDED WITH UNIT. (NO DDC CONTROL).

SPACE TEMPERATURE WILL BE MONITORED AND ALARMED IF THE TEMPERATURE DROPS BELOW 60°F(ADJ.) OR ABOVE 85°F (ADJ.).

4 FRAME ROOM SPLIT SYSTEM CONTROL



CONTROL SEQUENCE

EXHAUST FANS SHALL BE CONTROLLED THRU LOCAL WALL SWTICH. STATUS SHALL BE MONITORED THRU A CURRENT RELAY BACK TO DDC SYSTEM.

ALARMS
AN ALARM SHALL BE GENERATED AT THE DDC IF FAN STATUS IS NOT PROVED.

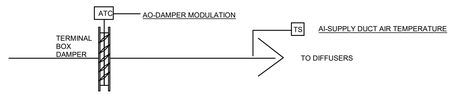
3 IT ROOM 304 EF-1 CONTROL

CONTROL SEQUENCE

IF OUTDOOR AIR TEMPERATURE IS BELOW 50 DEGREES ENABLE DUCT HEATER (ONLY IF ERV IS RUNNING)
IF OUTDOOR AIR TEMPERATURES ARE ABOVE 50 DEGREES (ADJUSTABLE) DISABLE HEATER.
IF SUPPLY DUCT TEMPERATURE DROPS BELOW 55 DEGREES (ADJUSTABLE) AND THE ERV SUPPLY FAN IS RUNNING , SCR CONTROLLER SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE OF 72 DEGREES (ADJUSTABLE)
IF ERV SUPPLY FAN IS SHUT DOWN FOR ANY REASON (DISABLE DUCT HEATER)

TRENDS
ALL POINTS SHALL BE HISTORICALLY TRENDED. TREND POINTS AT 15 MIN. INTERVALS OVER A MINIMUM 7 DAY PERIOD OF TIME.

2 ELECTRIC DUCT HEATER CONTROL



THE FOLLOWING SEQUENCE OF OPERATION IS ONLY FOR NEWLY INSTALLED VAV-1&2 SERVING BOARD ROOM 109 AND CONFERENCE ROOM 119; RESPECTIVELY. ALL EXISTING VAV AND FPB TO MAINTAIN THEIR EXISTING SOO.

TS	AI-SPACE TEMPERATURE	REFER TO FLOOR PLAN FOR LOCATIONS AND QUANTITIES

SEQUENCE OF OPERATION:
EACH VARIABLE AIR VOLUME TERMINAL BOX SHALL HAVE A ROOM SENSOR WHERE INDICATED ON THE DRAWINGS.

SCHEDULE / OCCUPANCY SENSOR INTERFACE
DURING THE UNOCCUPIED TIME THE DAMPER SHALL BE ALLOWED TO CLOSE COMPLETELY OR OPEN AS REQUIRED TO MAINTAIN UNOCCUPIED TEMPERATURE SETPOINT. DURING THE OCCUPIED TIME THE DAMPER SHALL BE REMAIN CLOSE. NEW BOARD ROOM VAV-1&2 FOR CONDITIONING PURPOSES ONLY. ERV-1 AND EXITING TO REMAIN VAV AND FPB TO PROVIDE REQUIRED VENTILATION RATES.

SPACE COOLING
UPON A RISE IN SPACE TEMPERATURE, THE BOX SHALL MODULATE IT'S DAMPER OPEN OR CLOSED AS REQUIRED TO PROVIDE COOLING TO THE SPACE TO SATISFY THE SPACE SETPOINT TEMPERATURE.

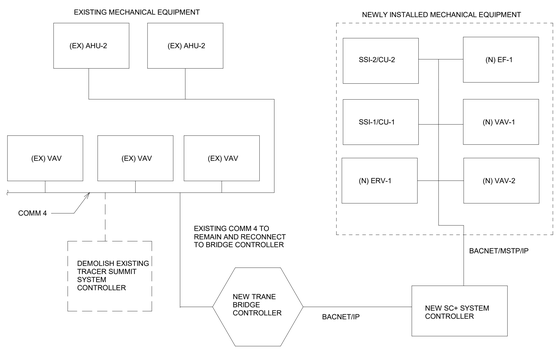
SPACE HEATING
WHEN THE SPACE TEMPERATURE FALLS BELOW SETPOINT, THE VAV BOX DAMPER SHALL MODULATE TO ITS CLOSED POSITION.

ALARMS
THE FOLLOWING SHALL INDICATE AN ALARM CONDITION:
- ANY SPACE TEMPERATURE FALLS BELOW 50°F (ADJ). FOR MORE THAN 10 MIN.

TRENDS
ALL POINTS SHALL BE HISTORICALLY TRENDED. TREND POINTS EVERY 15MIN OVER A 90 DAY PERIOD OF TIME.

5 VAV-1&2 TERMINAL BOX CONTROL SEQUENCE

ADD ALTERNATE 3
FOR REFERENCE ONLY - NOT INCLUSIVE
OF ELEMENTS OF FULL SYSTEM UPGRADE



DESCRIPTION ADD ALTERNATE 3:

UPGRADE EXISTING BUILDING MANAGMENT SYSTEM (BMS) TRACER SUMMIT VERSION 18 TO LATEST VERSION OF TRANE CONTROLS SYSTEM. CONTRACTOR TO VERIFY WITH CONTROLS CONTRACTOR AND MFR REQUIRED SCOPE OF MIGRATION OF EXISTING SYSTEM AND PROTOCOLS.

NEWLY INSTALLED MECHANICAL EQUIPMENT TO TIE INTO UPGRADED BMS SYSTEM.

7 ADD ALTERNATE 3 - UPGRADE EXISTING TRANE BMS TO LATEST VERSION

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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

MECHANICAL CONTROLS

M400

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TERMINAL AIR BOX SCHEDULE

REFERENCE	VAV-1	VAV-2
MANUFACTURER	TRANE	TRANE
MODEL #	VRRF	VRRF
TYPE	SINGLE DUCT (NO REHEAT)	SINGLE DUCT (NO REHEAT)
SERVES	BOARD ROOM 109	BOARD ROOM 109
BOX SIZE / INLET SIZE (IN)	8	6
MAXIMUM COOLING AIRFLOW (CFM)	750	450
MINIMUM AIRFLOW (CFM)	0	0
AIR PRESSURE DROP (IN. W.C.)	0.138	0.249
EAT (°F)	55	55
LAT (°F)	55	55
VOLTAGE	120	120
NOTES	1,2,3,4,5	1,2,3,4,5

NOTES:

1. NC SHALL NOT EXCEED 35. BOX A.P.D. SHALL NOT EXCEED 0.25".
2. PROVIDE 5' LONG SHEET METAL DISCHARGE PLENUM WITH 1" ACOUSTIC LINING.
3. 120 VOLTS PROVIDED TO INTEGRAL 24VOLT TRANSFORMER.
4. MANUFACTURER PROVIDED DISCONNECT SWITCH.
5. PROVIDE BACNET MS/TP CONTROLLER TO INTEGRATE WITH BUILDING MANAGEMENT SYSTEM.

SPLIT SYSTEM A/C SCHEDULE

REFERENCE	SS-1 / CU-1	SS-2 / CU-2
MANUFACTURER	MITSUBISHI	MITSUBISHI
SERVES	FRAME ROOM 225	FRAME ROOM 332
CAPACITIES		
REFRIGERANT	R-410A	R-410A
NOMINAL COOLING TONS	1.0	1.0
COOLING CAPACITY (BTU/H)	12,000	12,000
SEER / EER	19 / 13	19 / 13
INDOOR UNIT (SS)		
MODEL #	NTXDKS12A	NTXDKS12A
TYPE	CEILING CONCEALED	CEILING CONCEALED
MAX. COOLING AIRFLOW CFM (HIGH)	388	388
VOLTAGE/PH	208/1	208/1
MCA	1	1
OUTDOOR UNIT (CU)		
MODEL #	NTXSKH12	NTXSKH12
TYPE	INVERTER	INVERTER
WEGHT (LBS)	129	129
CAPACITY (BTU/H)	12,000	12,000
COMPRESSOR TYPE	INVERTER	INVERTER
VOLTAGE/PH	208/1	208/1
MCA	14	14
MOCP	24	24
NOTES	1, 2, 3, 4	1, 2, 3, 4

NOTES:

1. SINGLE POINT POWER CONNECTION TO OUTDOOR UNIT. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT
2. PROVIDE DISCONNECT. COORDINATE WITH DIV 26. ACCEPTABLE.
3. INDOOR UNIT TO HAVE CONDENSATE LIFT MECHANISM.
4. INSTALL DRAIN PAN UNDER FAN COIL UNIT.

ENERGY RECOVERY VENTILATOR

REFERENCE	ERV-1
MANUFACTURER	RENEWAIRE
MODEL	HE1.5JINV
SERVES	BOARD ROOM 109, CONFERENCE ROOM 119
SUPPLY FAN	
CFM	1,300
ESP (IN. W.C.)	0.6
MOTOR HP	1
EXHAUST FAN	
CFM	1,300
ESP (IN. W.C.)	0.6
MOTOR HP	1
ENERGY RECOVERY CORE	
TYPE	PLATE HX
SUMMER CONDITIONS	
OUTDOOR AIR TEMP DB/WB (°F)	92.2 / 68
RETURN AIR TEMP DB/WB (°F)	75.0/62.5
SUPPLY AIR TEMP DB/WB (°F)	80.6 / 64.3
WINTER CONDITIONS	
OUTDOOR AIR TEMP DB/WB (°F)	23.2 / 19.5
RETURN AIR TEMP DB/WB (°F)	70.0 / 54.8
SUPPLY AIR TEMP DB/WB (°F)	54.8 / 41.6
TOTAL EFFICIENCY, WINTER/SUMMER %	63.7 / 66.4
UNIT DATA	
VOLTAGE - PHASE	208/1
MCA	9.9
MOP	15
UNIT WEIGHT (LBS)	
NOTES	ALL

NOTES:

1. PROVIDE UNIT WITH NON-FUSED DISCONNECT.
2. PROVIDE MOTORIZED DAMPER IN OUTDOOR INLET AND EXHAUST OUTLET AIRSTREAMS.
3. MINIMUM LEAVING AIR TEMPERATURE TO BE 70 F IN WINTER. REFER TO DUCT HEATER SCHEDULE.
5. PROVIDE WITH MERV-13 FILTER ON SUPPLY AIR.
6. PROVIDE INTEGRAL UNIT PREMIUM CONTROLLER WITH BACNET TCP/IP ACTIVATION. REFER TO...

DUCTWORK AND INSULATION SCHEDULE

SYSTEM	LOCATION	MATERIAL (NOTE 1)	PRESSURE CLASS, IN W.C. (NOTE 1)	SEAL CLASS (NOTE 3)	LEAKAGE CLASS (NOTE 3)	INSULATION THICKNESS AND TYPE (NOTE 2)					NOTES
						INSULATION THICKNESS (INCHES)	INTERIOR LINER	FLEXIBLE WRAP	DOUBLE-WAL L INSULATED	RIGID BOARD	
EXHAUST - RECTANGULAR	INTERIOR	G60 GALVANIZED STEEL	-2	A	12	1	X				
EXHAUST - ROUND	INTERIOR	G60 GALVANIZED STEEL	-2	A	6	--					
OUTSIDE AIR - RECTANGULAR	INTERIOR	G60 GALVANIZED STEEL	-2	A	12	2				X	
OUTSIDE AIR - ROUND	INTERIOR	G60 GALVANIZED STEEL	-2	A	6	2		X			
SUPPLY - LOW PRESSURE RECTANGULAR	INTERIOR	G60 GALVANIZED STEEL	+2	A	12	1	X				
SUPPLY - LOW PRESSURE ROUND	INTERIOR	G60 GALVANIZED STEEL	+2	A	6	1 1/2		X			
SUPPLY - LOW PRESSURE ROUND (EXPOSED)	INTERIOR	G60 GALVANIZED STEEL	+2	A	6	1			X		

NOTES:

1. DUCT WORK MATERIAL AND CONSTRUCTION SHALL MEET SMACNA DUCT CONSTRUCTION STANDARDS, AND BE MINIMUM 26 GAUGE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. REFER TO SPECIFICATIONS FOR FURTHER INSULATION AND LINER MATERIAL REQUIREMENTS. ALL EXTERIOR DUCT INSULATION ON BELOW AMBIENT TEMPERATURE DUCT WORK SHALL HAVE A CONTINUOUS VAPOR BARRIER. INSULATION SHALL MEET I OREGON EFFICIENCY SPECIALTY...
3. SEAL AND LEAKAGE CLASS BASED ON SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
4. FOR DUCTWORK ON POSITIVE PRESSURE SIDE OF RETURN AND EXHAUST FANS.
5. MED. PRESSURE SUPPLY DUCT SHALL BE UTILIZED FOR ALL DUCT WORK FROM AHU DISCHARGE TO VAV BOX CONNECTION.

ELECTRIC DUCT HEATER

REFERENCE	EDH-1
MANUFACTURER	NEPTRONIC
MODEL #	DF CI00H
TYPE	DUCT HEATER
SERVES	ERV-1
CFM	1,300
KW	7
DUCT SIZE	16x12
VOLTAGE/PH	480/3
NOTES	ALL

NOTES:

1. UNIT DISCONNECT BY MFR.
2. INSTALL PER MFR RECOMMENDATIONS.
3. DUCT HEATER SHALL OPERATE INTERLOCKED WITH ERV OPERATION. DUCT HEATER SHALL MAINTAIN 70°F (ADJ.) SAT.
4. PROVIDE WITH INTEGRAL SCR CONTROLS.
5. DUCT HEATER SHALL VERIFY AIRFLOW PRIOR TO OPERATION VIA AIRFLOW SWITCH.
6. PROVIDE DUCT HEATER WITH THERMAL CUTOUT, INTEGRAL DISCONNECT AND SCR CONTROLLER.
7. EDH TO BE PROVIDED WITH BACNET TCP/IP CONTROLLER TO INTEGRATE INTO BUILDING...

GRILLES REGISTERS AND DIFFUSERS SCHEDULE

REFERENCE	MATERIAL	FACE (IN)	DAMPER	MFR	MODEL	NOTES
CD-1 (CEILING DIFFUSER)	ALUMINUM	24x24	YES	PRICE	PDC	1,2,3
RD-1 (RETURN DIFFUSER)	ALUMINUM	24x24	NO	PRICE	PDDR	1,2
EG-1 (EXHAUST GRILLE)	ALUMINUM	24x24	YES	PRICE	80	1,2
RG-1 (RETURN GRILLE)	STEEL	16 1/4 x 12 1/4	NO	PRICE	530	1,2

NOTES:

1. REFER TO ARCH DRAWINGS FOR FINAL CEILING TYPE FOR MOUNTING TYPE.
2. VERIFY WITH ARCHITECT ON FINAL COLOR.

EXHAUST FAN SCHEDULE

REFERENCE	EF-1
MANUFACTURER	COOK
MODEL #	GN622
TYPE	IN-LINE
SERVES	IT ROOM
CFM	300
ESP (IN. W.C.)	0.25
FAN RPM	1,034
BELT/DIRECT	DIRECT
SPEED CONTROL (YES/NO)	YES
SONES	1
DAMPER TYPE	GRAV. BACKDRAFT
WATTS	93.0
VOLTAGE - PHASE	120-1
NOTES	1,2

NOTES:

1. PROVIDE DISCONNECT AND EC MOTOR WITH MOUNTED POTENTIOMETER DIAL.
2. PROVIDE CONTROL THROUGH DDC SYSTEM AND LOCAL WALL MOUNTED SWITCH. COORDINATE FINAL LOCATION OF WALL MOUNTED SWITCH WITH SCHOOL DISTRICT AND ARCHITECT.

VENTILATION SCHEDULE

ROOM	Az NET OCCUP. FL AREA (SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM/PERS.)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT OCCUPANT DENSITY (#/1000SF)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Rp* Pz	Ra* Az	Vbz BREATHING ZONE OSA FLOW (CFM)	Ez ZONE AIR DISTRIB. EFFECT.	Voz ZONE OUTDOOR AIRFLOW (CFM)	Vpz PRIMARY AIRFLOW (CFM)	NOTES
BOARD ROOM 109	3,199	5	0.06	50	160	160	800	192	992	0.8	1,240	4100	1
CONFERENCE ROOM 119	588	5	0.06	51	30	30	150	35	185	0.8	232	4101	
											TOTAL ALL ZONES Vpz	4100	
TOTAL ZONE AREA (SF)	3,199				TOTAL ALL ZONES Pz	160		TOTAL (Rp*Pz)	800		MAX Zp	0.302	
					SYSTEM POPULATION Ps	192		TOTAL (Ra*Az)	192		Ev	0.8	
					OCC. DIVERSITY D=Ps/(TOTAL ALL ZONES Pz)	1.00		Vou=D*TOT(Rp*Pz)+TOT(Ra*Az)	992		Vot = Vou / Ev	1,240	

NOTES:

1. EXISTING VAV AND FAN POWER BOXES PROVIDE 300 CFM OF OUTSIDE AIR. THE DIFFERENCE IN REQUIRED VENTILATION FOR THE NEW OCCUPANCY TYPE IS PROVIDED BY ERV-1.

LOUVER SCHEDULE

REFERENCE	IL-1	EL-1
MANUFACTURER	RUSKIN	RUSKIN
MODEL	ELF375X	ELF375X
APPLICATION	INTAKE/EXHAUST	INTAKE/EXHAUST
MATERIAL	ALUMINUM	ALUMINUM
SIZE (W X L X D)	96"x18"x4"	96"x18"x4"
CFM	950	950
FREE AREA (SQ. FT.)	5.65	5.65
PRESSURE DROP (IN. W.C.)	0.01	0.01
FREE AREA VELOCITY (FPM)	177	177
BLADE DIRECTION	HORIZONTAL	HORIZONTAL
INSTALLATION	PRE-ENG. METAL BUILDING	PRE-ENG. METAL BUILDING
DRAINABLE	YES	YES
NOTES	1,2	1,2

NOTES:

1. PROVIDE COLOR CHARTS TO ARCHITECT FOR COLOR SELECTION.
3. PROVIDE WITH BIRDSCREEN

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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

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PROJECT: 21019
DATE: 02.18.2022

MECHANICAL SCHEDULES

M500

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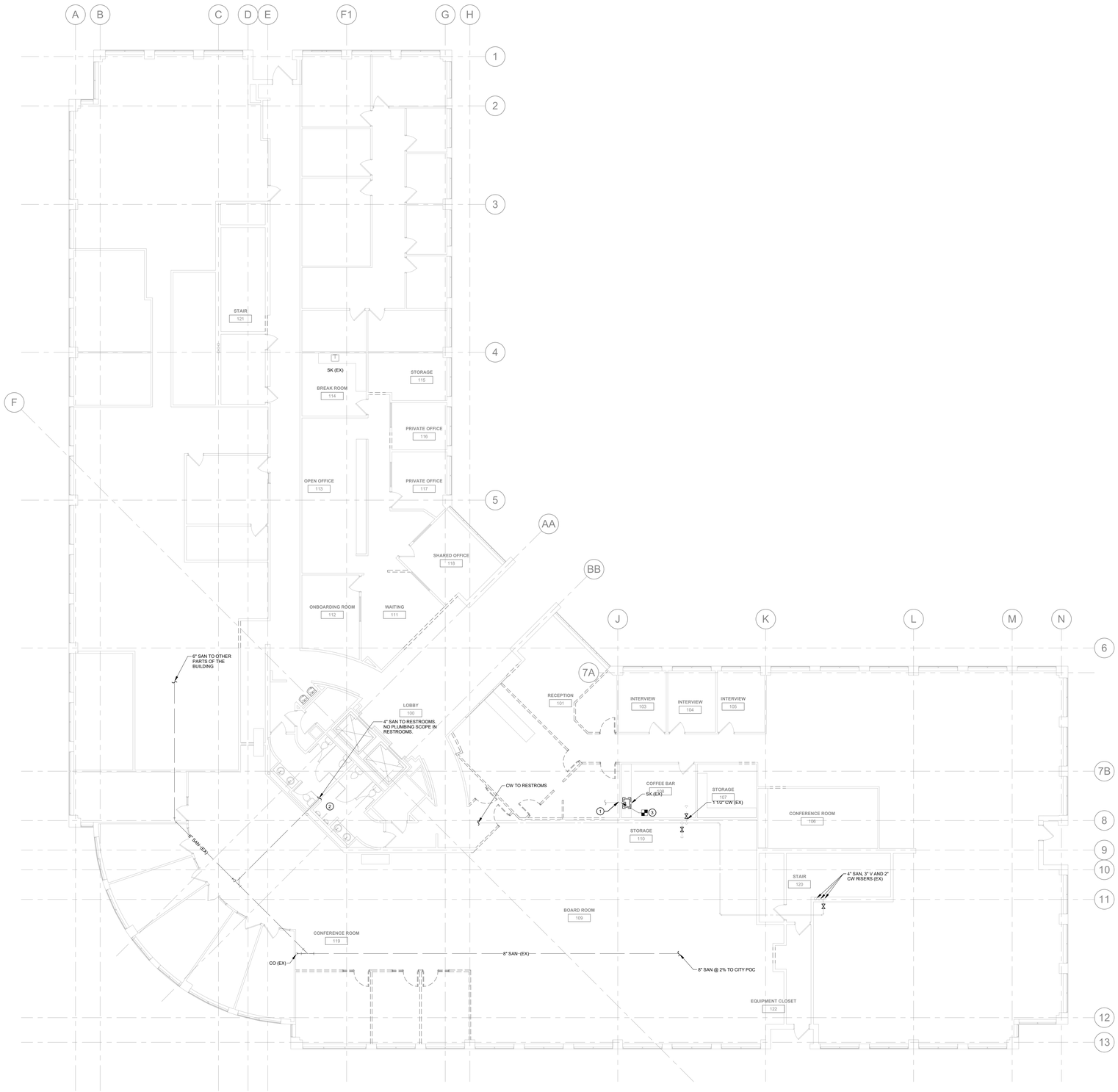

1 PLUMBING DEMOLITION - LEVEL 1
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.
2. PATCH WALLS, ROOFS, AND/OR FLOOR WHERE PIPES OR EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.
3. WHERE PIPING, EQUIPMENT, AND PLUMBING FIXTURES ARE REMOVED, REMOVE ALL VALVES, SUPPORTS, INSULATION, AND APPURTENANCES. REMOVE PIPING BACK TO MAINS AND CAP. DO NOT LEAVE DEAD LEGS.

KEYNOTES (#)

1 FIELD VERIFY ROUTING OF EXISTING SANITARY AS NECESSARY. EXISTING ROUTING NOT SHOWING IN EXISTING DRAWINGS.
2 NO PLUMBING SCOPE IN EXISTING RESTROOM AREAS.
3 DEMOLISH EXISTING SINK. SALVAGE AND PREPARE EXISTING SINK TO BE REINSTALLED. PREPARE EXISTING WATER AND SANITARY CONNECTIONS FOR SINK REINSTALLATION.

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PLUMBING DEMOLITION - LEVEL 1

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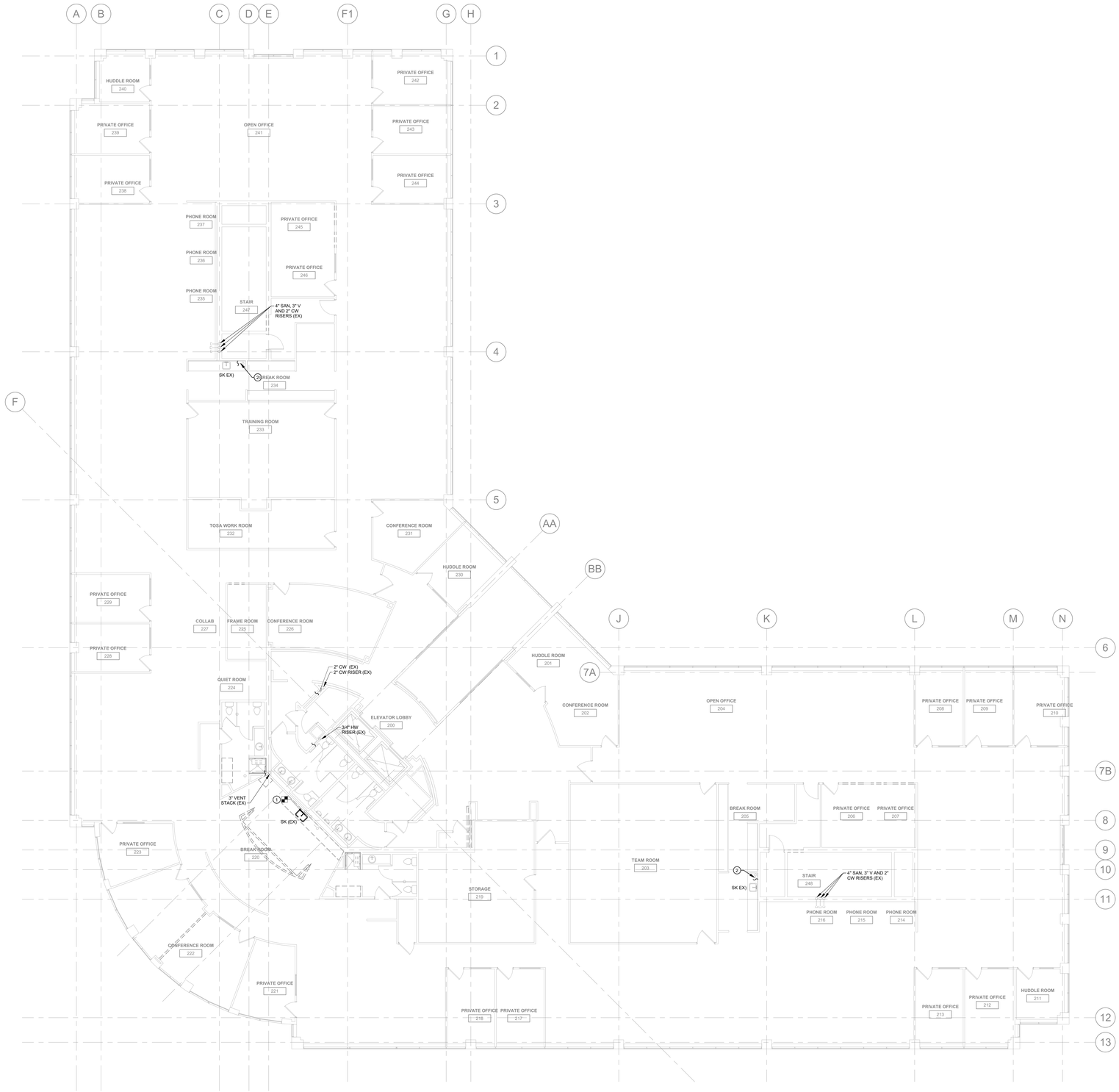

1 PLUMBING DEMOLITION PLAN - LEVEL 2
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.
2. PATCH WALLS, ROOFS, AND/OR FLOOR WHERE PIPES OR EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.
3. WHERE PIPING, EQUIPMENT, AND PLUMBING FIXTURES ARE REMOVED, REMOVE ALL VALVES, SUPPORTS, INSULATION, AND APPURTENANCES. REMOVE PIPING BACK TO MAINS AND CAP. DO NOT LEAVE DEAD LEGS.

KEYNOTES #

1 DEMOLISH EXISTING SINK. DOMESTIC WATER, SANNITARY AND VENT PIPING CONNECTIONS TO REMAIN. PREPARE PIPING FOR INSTALLATION OF NEW SINK.

2 EXISTING COLD WATER CONNECTION. FIELD VERYFY EXACT LOCATION AND SIZE. CONNECTION TO BE A MINIMUM OF 1/2".

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PLUMBING DEMOLITION - LEVEL 2

PD102

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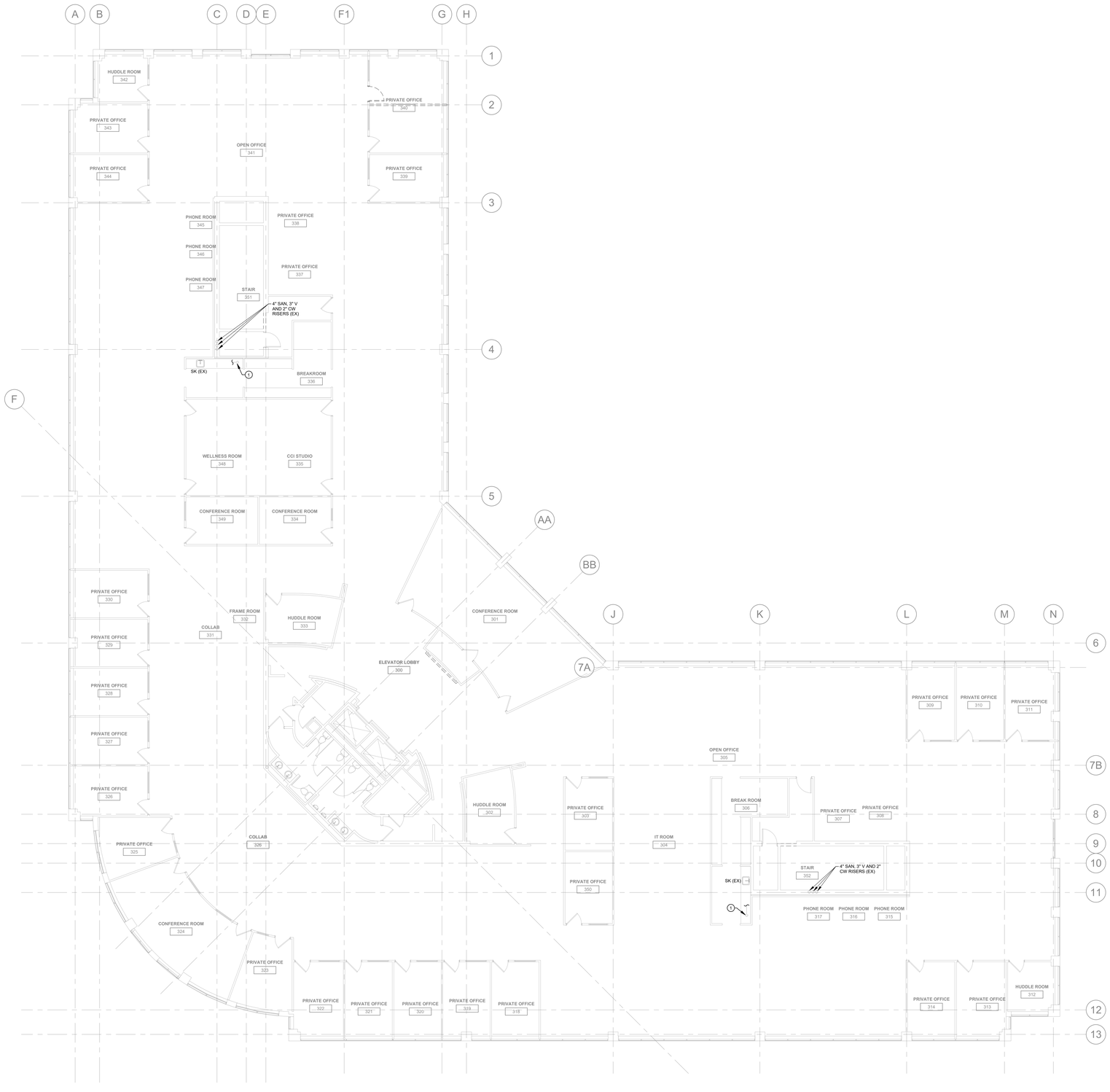
GENERAL NOTES:

1. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.
2. PATCH WALLS, ROOFS, AND/OR FLOOR WHERE PIPES OR EQUIPMENT ARE REMOVED. PAINT OR FINISH TO MATCH ORIGINAL CONSTRUCTION.
3. WHERE PIPING, EQUIPMENT, AND PLUMBING FIXTURES ARE REMOVED, REMOVE ALL VALVES, SUPPORTS, INSULATION, AND APPURTENANCES. REMOVE PIPING BACK TO MAINS AND CAP. DO NOT LEAVE DEAD LEGS.

KEYNOTES #

1 EXISTING COLD WATER CONNECTION. FIELD VERYFY EXACT LOCATION AND SIZE. CONNECTION TO BE A MINIMUM OF 1/2".



1 PLUMBING DEMOLITION PLAN - LEVEL 3
1/8" = 1'-0"

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PLUMBING DEMOLITION - LEVEL 3

PD103

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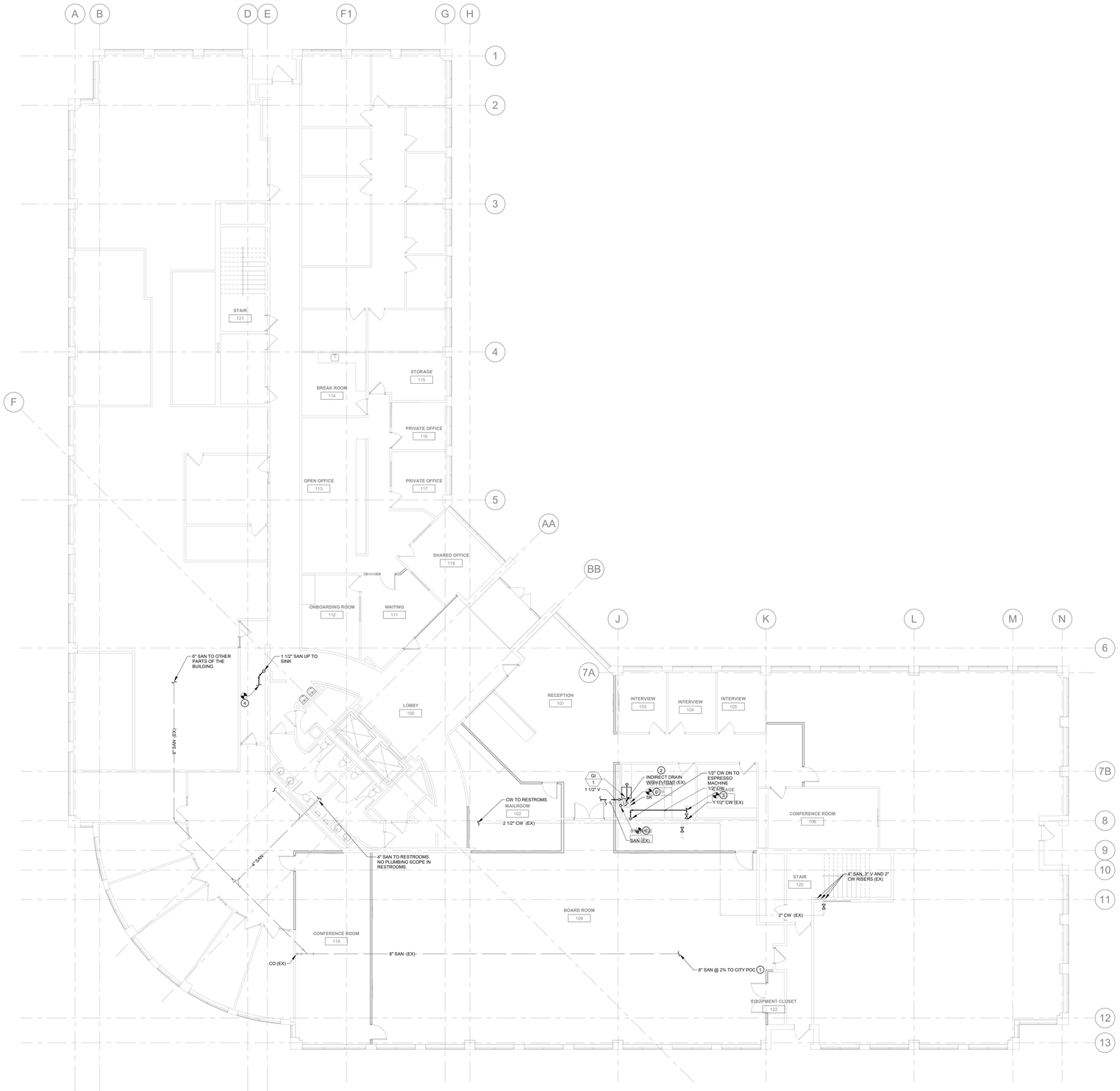

1 PLUMBING PLAN - LEVEL 1
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR BRANCH PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES.

C. COORDINATE PIPE ROUTING WITH EXISTING STRUCTURE AND MECHANICAL EQUIPMENT. CONTRACTOR TO VERIFY FIELD CONDITIONS.

D. BRANCH PIPING SHALL BE TAKEN OFF THE TOP OF MAIN PIPING.

KEYNOTES #

1 FOR REFERENCE ONLY. FIELD VERIFY LOCATION AND ROUTING OF EXISTING SANITARY PIPE AS NECESSARY.

2 REINSTALL SALVAGED SINK IN NEW CABINET LOCATION. COORDINATE FINAL GI UNDER CABINET LOCATION TO ACCOMODATE PIPING CONNECTIONS. ADJUST DOMESTIC WATER, SANITARY AND VENT CONNECTIONS TO SINK AS REQUIRED. ADJUST EXISTING INDIRECT DRAIN, P-TRAP AND PIPING DISCHARGING TO DRAIN AS REQUIRED.

3 NEW 1/2" DCW BRANCH CONNECTION FROM 1 1/2" CW MAIN TO SERVE NEW COFFEE BREWING EQUIPMENT. COORDINATE WITH ARCHITECTURAL PLANS FOR FINAL LOCATION.

4 EXISTING SANITARY PIPE ROUTING IN RESTROOM ADJACENT TO MOTHERS ROOM 224 IN FLOOR ABOVE IS NOT DOCUMENTED, BUT RESTROOM HAS TWO EXISTING WATER CLOSETS AND THE SANITARY PIPE SERVING THEM MUST BE AT LEAST 3". FIELD VERIFY ROUTING OF EXISTING SANITARY PIPING AND CONNECT NEW 1 1/2" SANINATRY PIPING TO EXISTING SANITARY.

5 CONNECT GREASE WASTE PIPE DOWNSTREAM OF GREASE INTERCEPTOR TO EXISTING SANITARY PIPING SERVING SINK AND INDIRECT DRAIN. FIELD VERIFY EXACT LOCATION OF EXISTING SANITARY PIPE.

6 REINSTALL EXISTING SINK AND REESTABLISH PLUMBING CONNECTIONS. COORDINATE PLUMBING WORK WITH NEW COUNTERTOP. FIELD VERIFY EXACT LOCATIONS OF PLUMBING CONNECTIONS.

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NOV. 09, 2021
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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

PLUMBING PLAN - LEVEL 1

P101

2/18/2022 10:02:04 AM

1 PLUMBING PLAN - LEVEL 2
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR BRANCH PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES.

C. COORDINATE PIPE ROUTING WITH EXISTING STRUCTURE AND MECHANICAL EQUIPMENT. CONTRACTOR TO VERIFY FIELD CONDITIONS.

D. BRANCH PIPING SHALL BE TAKEN OFF THE TOP OF MAIN PIPING.

KEYNOTES #

1 CONNECT NEW 3/4" CW LINE TO EXISTING CW MAIN. FIELD VERIFY EXACT LOCATION OF CW MAIN. 2" CW RISER IN LOCATION SHOWN.

2 CONNECT NEW 3/4" HW LINE TO EXISTING HW MAIN. FIELD VERIFY EXACT LOCATION OF HW MAIN. 3/4" HW RISER IN LOCATION SHOWN.

3 EXISTING VENT PIPE ROUTING IN RESTROOM ADJACENT TO MOTHERS ROOM 224 IS NOT DOCUMENTED IN AVAILABLE EXISTING DRAWINGS. FIELD VERIFY SIZE OF VENT PIPE MAIN SERVING THIS RESTROOM AND RESPECTIVE FIXTURE UNIT COUNT. IF VENT PIPE MAIN IS 2", SERVES LESS THAN 24 FIXTURE UNITS AND HAS A HORIZONTAL LENGTH LESS THAN 40', CONNECT SK-1 VENT PIPE TO EXISTING VENT PIPE MAIN IN RESTROOM. OTHERWISE, ROUTE 2" VENT PIPE FROM SK-1 TO EXISTING 3" VENT MAIN NEAR EXISTING 3" VENT STACK AT LOCATION SHOWN.

4 CONNECT NEW SINK TO EXISTING DOMESTIC WATER, SANITARY AND VENT CONNECTIONS. BRANCH 1/2" COLD WATER LINE OFF OF COLD WATER SERVING SINK TO SERVE FILTER AND COFFEE MAKER. COORDINATE LOCATION IN FIELD WITH OWNER.

5 EXISTING COLD WATER CONNECTION. FIELD VERIFY EXACT LOCATION. REPLACE EXISTING FILTER WITH NEW AND EXTEND 1/2" COLD WATER TO NEW COFFEE BREWER. COORDINATE FINAL LOCATION WITH ARCHITECT.

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PROJECT: 21019
DATE: 02.18.2022

PLUMBING PLAN - LEVEL 2

P102

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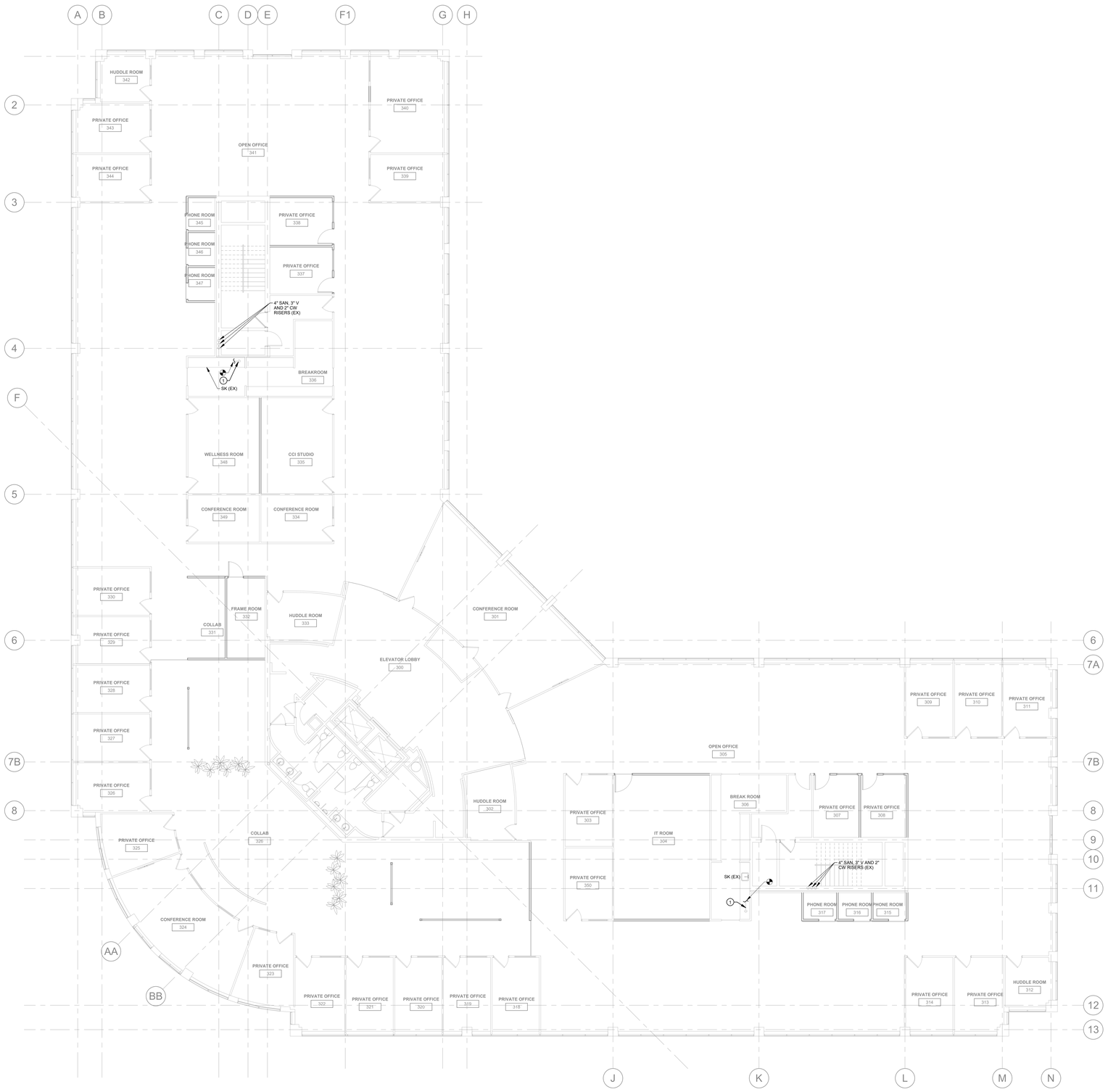

1 PLUMBING PLAN - LEVEL 3
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR BRANCH PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES.

C. COORDINATE PIPE ROUTING WITH EXISTING STRUCTURE AND MECHANICAL EQUIPMENT. CONTRACTOR TO VERIFY FIELD CONDITIONS.

D. BRANCH PIPING SHALL BE TAKEN OFF THE TOP OF MAIN PIPING.

KEYNOTES (#)

1 EXISTING COLD WATER CONNECTION. FIELD VERIFY EXACT LOCATION. REPLACE EXISTING FILTER WITH NEW AND EXTEND 1/2" COLD WATER TO NEW COFFEE BREWER. COORDINATE FINAL LOCATION WITH ARCHITECT.

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PROJECT: 21019
DATE: 02.18.2022

PLUMBING PLAN - LEVEL 3

P103

2/18/2022 10:02:08 AM

PLUMBING FIXTURE SCHEDULE

REFERENCE	MFR	MODEL	DESCRIPTION	TRIM
GI-1	SHIER	GB1	INDOOR HYDROMECHANICAL GREASE INTERCEPTOR, 20 GPM, 70 LBS GREASE CAPACITY, 2" INLET AND OUTLET CONNECTIONS, BOLTED GAS/WATER TIGHT POLYPROPYLENE COVER.	NA
SK-1 (ADA)	ELKAY	LRAD2521	ADA, SINGLE BOWL, DROP-IN MOUNT, 18-GAUGE STAINLESS STEEL, BOTTOM ONLY PADS, 25" SIDE TO SIDE x 21-1/4" FRONT TO BACK, 21" x 15-3/4" x 6-1/2" DEEP BOWL, REAR CENTER DRAIN, ONE HOLE CONFIGURATION. REMOVABLE STAINLESS STEEL BASKET STRAINER AND TAILPIECE.	DELTA "9959-LS-DST", ADA, METAL CONSTRUCTION, CHROME-PLATED OR STAINLESS FINISH TO COORDIINATE WITH CABINET HARDWARE, SINGLE HANDLE DECK MOUNT, HIGH-ARCH GOOSENECK SPOUT WITH 140" SPOUT ROTATION, 1.8 GPM MAX FLOW AT 60 PSI, TWO FUNCTION WAND, DUAL INTEGRAL CHECK VALVES. PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS, ESCUTCHEON AND GASKET.
SK-2 (ADA)	ELKAY	LRAD2521	ADA, SINGLE BOWL, DROP-IN MOUNT, 18-GAUGE STAINLESS STEEL, BOTTOM ONLY PADS, 25" SIDE TO SIDE x 21-1/4" FRONT TO BACK, 21" x 15-3/4" x 6-1/2" DEEP BOWL, REAR CENTER DRAIN, ONE HOLE CONFIGURATION. REMOVABLE STAINLESS STEEL BASKET STRAINER AND TAILPIECE.	DELTA "559HAR-SS-DST", ADA, METAL CONSTRUCTION, CHROME-PLATED OR STAINLESS STEEL FINISH TO COORDINATE WITH CABINET HARDWARE, HIGH-ARC SPOUT, 1.0 GMP MAX FLOW AT 60 PSI, PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS, AND DECK PLATE.

NOTES:
1. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR MINIMUM CONNECTION SIZES.

PLUMBING PIPING AND INSULATION SCHEDULE

SYSTEM	SIZE RANGE (INCHES)	LOCATION	PIPE MATERIAL (NOTE 1)	JOINT TYPE (NOTE 1)	VALVE TYPES (NOTE 3)	INSULATION TYPE (NOTE 2)	INSULATION THICKNESS (INCHES)	JACKET (NOTE 4)	NOTES
DOMESTIC COLD WATER	3/4 - 1 1/4	ABOVE GROUND	TYPE L COPPER	SOLDER/PRESSURE SEAL	BRONZE BALL W/ SS TRIM	MINERAL FIBER / ELASTOMERIC	1/2	PVC	5
DOMESTIC COLD WATER	3/4 - 1 1/4	IN WALL CAVITY	PEX	METAL INSERT		MINERAL FIBER / ELASTOMERIC	1/2	--	
DOMESTIC COLD WATER	1 1/2 - 2	ABOVE GROUND	TYPE L COPPER	SOLDER/PRESSURE SEAL	BRONZE BALL W/ SS TRIM	MINERAL FIBER / ELASTOMERIC	1	PVC	5
DOMESTIC HOT WATER	3/4 - 1 1/4	ABOVE GROUND	TYPE L COPPER	SOLDER/PRESSURE SEAL	BRONZE BALL W/ SS TRIM	MINERAL FIBER / ELASTOMERIC	1	PVC	5
DOMESTIC HOT WATER	3/4 - 1 1/4	IN WALL CAVITY	PEX	METAL INSERT		MINERAL FIBER / ELASTOMERIC	1	--	
GREASE SANITARY (GRAVITY)	1 1/2 - 8	BELOW GROUND	EPOXY COATED CI	HUB & SPIGOT	N/A	--	--	--	
GREASE SANITARY (GRAVITY)	1 1/2 - 8	ABOVE GROUND	EPOXY COATED CI	HUB & SPIGOT, NO HUB	N/A				
SANITARY DRAIN (GRAVITY)	1 1/2 - 8	BELOW GROUND	SCH 40 PVC DWV / CI	SOLVENT / HUB & SPIGOT	N/A	--	--	--	
SANITARY DRAIN (GRAVITY)	1 1/2 - 8	ABOVE GROUND	SCH 40 PVC DWV / CI	SOLVENT / NO HUB	N/A	--	--	--	
SANITARY VENT PIPING	1 1/4 - 6	ABOVE GROUND	SCH 40 PVC DWV / CI	SOLVENT / NO HUB	N/A	MINERAL FIBER	1	--	5,6

NOTES:
1. ALL PIPING UTILIZED FOR POTABLE WATER SHALL MEET NSF 14, 61 AND 372. PUSH TO CONNECT / PUSH ON TYPE JOINTS ARE NOT ALLOWED. REFER TO SPECIFICATIONS FOR FURTHER JOINT AND MATERIAL REQUIREMENTS.
2. REFER TO SPECIFICATIONS FOR FURTHER INSULATION REQUIREMENTS. INSULATION R-VALUE SHALL MEET OREGON EFFICIENCY SPECIALTY CODE [2021] REQUIREMENTS.
3. ALL VALVES UTILIZED IN POTABLE WATER SYSTEMS SHALL MEET NSF 61 AND 372. REFER TO SPECIFICATIONS FOR FURTHER VALVE REQUIREMENTS.
4. EXPOSED PIPING MOUNTED BELOW 6'-0" ABOVE FLOOR SHALL HAVE [PVC] [ALUMINUM] JACKET.
5. INSULATION APPLIED TO PIPING THAT IS LOCATED IN RETURN AIR PLENUMS SHALL MEET ASTM E 84 25/50 FLAME AND SMOKE SPREAD RATING AND COMPLY WITH NFPA STANDARD 90A.

PLUMBING FIXTURE ROUGH-IN SCHEDULE

FIXTURE	CW	HW	VENT	WASTE	NOTES
SINK	1/2"	1/2"	1 1/2"	1 1/2"	1,2

NOTES:
1. ALL SIZES SHOWN ARE MINIMUM CONNECITON SIZES, REFER TO DRAWINGS FOR FINAL SIZES.
2. ALL VERTICAL WASTE RISERS TO FIXTURES AND ALL BELOW FLOOR WASTE SIZES SHALL BE A MINIMUM OF 2".

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PROJECT: 21019
DATE: 02.18.2022

PLUMBING SCHEDULES

P500

2/18/2022 10:02:11 AM

GENERAL NOTES:

A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS.

C. DUCTWORK HAS PRIORITY OVER SPRINKLER PIPING. COORDINATE PIPE ROUTING AND ELEVATIONS WITH DUCTWORK. RELOCATE SPRINKLER PIPING AS REQUIRED.

D. SPRINKLERS SHALL GENERALLY BE SEMI-RECESSED PENDENT TYPE IN SPACES WITH FINISHED CEILINGS. SPRINKLERS IN SPACES WITH EXPOSED CEILINGS SHALL BE UPRIGHT.

E. SPRINKLER IN ELECTRICAL AND I.T. ROOMS SHALL BE SIDEWALL.DO NOT ROUTE PIPING OVER ELECTRICAL AND I.T. ROOMS.

F. IN REMODELED SPACES, REMOVE ALL EXISTING PIPING, HANGERS, AND SPRINKLERS TO ALLOW FOR INSTALLATION OF NEW DUCTWORK AND PIPING. INSTALL NEW PIPING AND SPRINKLERS PER NFPA 13.

KEYNOTES (#)

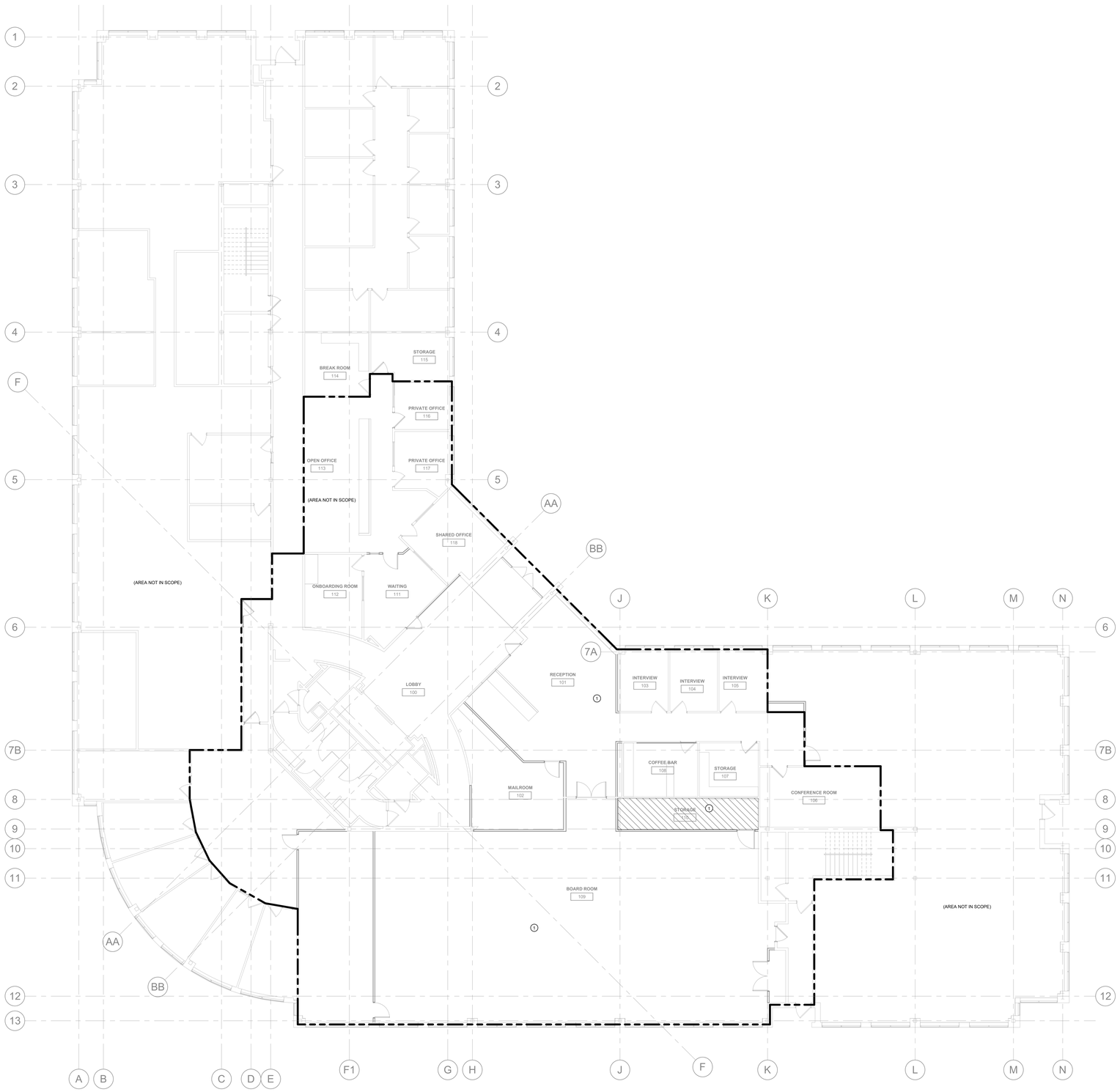
1 RECONFIGURE SPRINKLER HEADS TO ACCOMODATE CHANGES IN FLOOR AND CEILING PLANS. REFER TO ARCHITECTURAL DRAWINGS.

LEGEND

ZONE OUTLINE

LIGHT HAZARD

ORDINARY GROUP 1



1 FIRE PROTECTION PLAN - LEVEL 1
1/8" = 1'-0"

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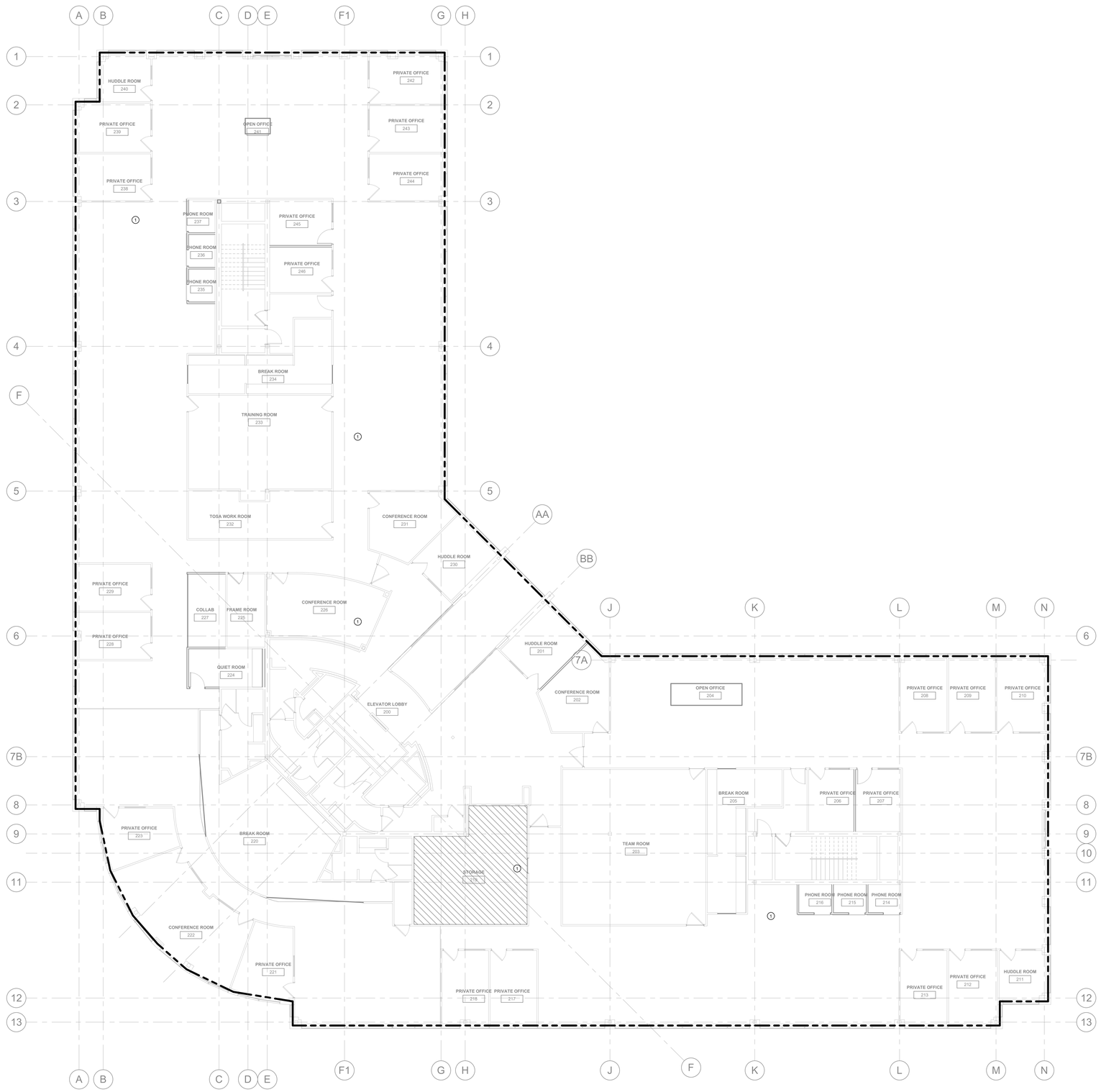
PROJECT: 21019
DATE: 02.18.2022

FIRE PROTECTION PLAN - LEVEL 1

F101

2/18/2022 10:01:24 AM



1 FIRE PROTECTION PLAN - LEVEL 2
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS.

C. DUCTWORK HAS PRIORITY OVER SPRINKLER PIPING. COORDINATE PIPE ROUTING AND ELEVATIONS WITH DUCTWORK. RELOCATE SPRINKLER PIPING AS REQUIRED.

D. SPRINKLERS SHALL GENERALLY BE SEMI-RECESSED PENDENT TYPE IN SPACES WITH FINISHED CEILINGS. SPRINKLERS IN SPACES WITH EXPOSED CEILINGS SHALL BE UPRIGHT.

E. SPRINKLER IN ELECTRICAL AND I.T. ROOMS SHALL BE SIDEWALL.DO NOT ROUTE PIPING OVER ELECTRICAL AND I.T. ROOMS.

F. IN REMODELED SPACES, REMOVE ALL EXISTING PIPING, HANGERS, AND SPRINKLERS TO ALLOW FOR INSTALLATION OF NEW DUCTWORK AND PIPING. INSTALL NEW PIPING AND SPRINKLERS PER NFPA 13.

KEYNOTES #

1 RECONFIGURE SPRINKLER HEADS TO ACCOMODATE CHANGES IN FLOOR AND CEILING PLANS. REFER TO ARCHITECTURAL DRAWINGS.

LEGEND

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LIGHT HAZARD

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FIRE PROTECTION PLAN - LEVEL 2

F102

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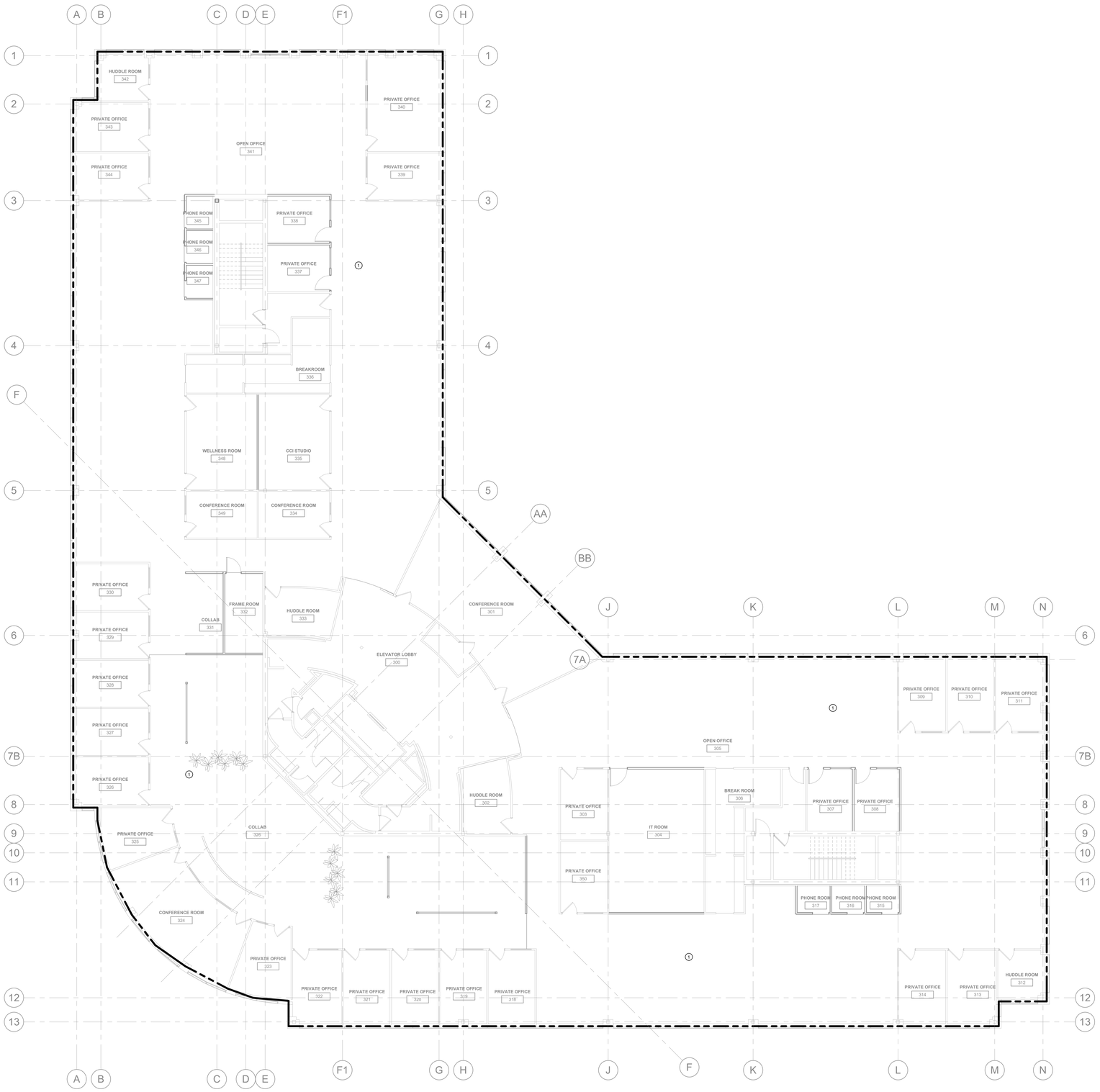

1 FIRE PROTECTION PLAN - LEVEL 3
1/8" = 1'-0"

GENERAL NOTES:

A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS.

C. DUCTWORK HAS PRIORITY OVER SPRINKLER PIPING. COORDINATE PIPE ROUTING AND ELEVATIONS WITH DUCTWORK. RELOCATE SPRINKLER PIPING AS REQUIRED.

D. SPRINKLERS SHALL GENERALLY BE SEMI-RECESSED PENDENT TYPE IN SPACES WITH FINISHED CEILINGS. SPRINKLERS IN SPACES WITH EXPOSED CEILINGS SHALL BE UPRIGHT.

E. SPRINKLER IN ELECTRICAL AND I.T. ROOMS SHALL BE SIDEWALL.DO NOT ROUTE PIPING OVER ELECTRICAL AND I.T. ROOMS.

F. IN REMODELED SPACES, REMOVE ALL EXISTING PIPING, HANGERS, AND SPRINKLERS TO ALLOW FOR INSTALLATION OF NEW DUCTWORK AND PIPING. INSTALL NEW PIPING AND SPRINKLERS PER NFPA 13.

KEYNOTES (#)

1 RECONFIGURE SPRINKLER HEADS TO ACCOMODATE CHANGES IN FLOOR AND CEILING PLANS. REFER TO ARCHITECTURAL DRAWINGS.

LEGEND

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PROJECT: 21019
DATE: 02.18.2022

FIRE PROTECTION PLAN - LEVEL 3

F103

2/18/2022 10:01:32 AM

GENERAL NOTES - ELECTRICAL

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS OCCURRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. ANY REWORK OF INSTALLED EQUIPMENT OR SYSTEMS WILL BE AT THE CONTRACTORS EXPENSE.

B. NOTE THAT THE ELECTRICAL DRAWINGS ARE ONLY A PORTION OF THE COMPLETE SET OF PLANS CONTRACT DOCUMENTS. THE COMPLETE SET CONTRACT OF DOCUMENTS SHALL BE USED TO DEFINE THE ELECTRICAL SCOPE OF WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, USING THE ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS; EQUIPMENT PLANS FOR ROUGH-IN REQUIREMENTS, AND THE MECHANICAL PLANS FOR EQUIPMENT SIZES AND LOCATIONS.

PROJECT DELIVERY NOTES - ELECTRICAL

A. THE DELIVERY METHOD FOR THIS PROJECT IS INDIVIDUAL BID PACKAGES COORDINATED AND ADMINISTERED BY A CONSTRUCTION MANAGER. THIS CONTRACTOR IS RESPONSIBLE FOR MEETING WITH ALL BID PACKAGE CONTRACTORS TO COORDINATE LOCATIONS AND INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. ANY REWORK OF INSTALLED EQUIPMENT WILL BE AT CONTRACTORS EXPENSE.

B. THE DELIVERY METHOD FOR THIS PROJECT IS INDIVIDUAL SUB-CONTRACTS TO ONE GENERAL CONTRACTOR. THIS CONTRACTOR IS RESPONSIBLE FOR MEETING WITH ALL SUB-CONTRACTORS TO COORDINATE LOCATIONS AND INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. ANY REWORK OF INSTALLED EQUIPMENT WILL BE AT CONTRACTORS EXPENSE.

INSTALLATION NOTES - ELECTRICAL

A. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS PRIOR TO BID.

B. INCREASE CONDUCTOR SIZES ON 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP.

C. RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE THE GENERAL AND APPROXIMATE LOCATION. THE LAYOUT DOES NOT NECESSARILY SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.

D. LIGHT FIXTURES, SWITCHES, DEVICES, ETC. ARE SHOWN IN PREFERRED LOCATION. E.C. RESPONSIBLE FOR MODIFYING CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

E. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. THE CONDUIT SYSTEM SHALL NOT BE USED AS THE ONLY EQUIPMENT GROUNDING METHOD.

F. DO NOT INSTALL DEVICES BACK TO BACK ON OPPOSITE SIDES OF WALL. MAINTAIN MINIMUM OF 8" DISTANCE BETWEEN WHEREVER APPLICABLE.

G. BALANCE THE LOAD ON PANELS AS EVENLY AS POSSIBLE DURING INSTALLATION. CIRCUIT NUMBERING SHOWN ON PLANS MAY BE ADJUSTED.

H. PROVIDE FINAL TYPED PERMANENT PANEL DIRECTORY AT PROJECT COMPLETION.

I. CONTRATOR IS RESPONSIBLE FOR OPENINGS IN WALLS CREATED BY THEIR WORK. PENETRATIONS SHALL BE SEALED IN ACCORDANCE WITH THE RATINGS OF THE AFFECTED WALL. REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS.

INSTALLATION NOTES - LIGHTING

1. UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE SPACE THE EMERGENCY FIXTURE IS LOCATED WITHIN. NORMAL SWITCHING SCHEME SHOULD BE MAINTAINED UNDER NORMAL OPERATING OF EMERGENCY FIXTURES DESIGNATED. WIRE PER EMERGENCY FIXTURE OR TRASNFER DEVICE INSTRUCTIONS.
2. VERIFY CEILING TYPE (IE. GRID, GYP) WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO RELEASE OF LIGHTING FIXTURE EQUIPMENT PACKAGE. ADJUST FIXTURE TYPE, CONSTRUCTION, FLANGE, OR OTHER COORDINATION DETAILS AS REQUIRED FOR CEILING TYPE.
3. OCCUPANCY SENSORS SHOWN ON PLANS ARE SUGGESTED LOCATIONS ONLY AND MUST BE VERIFIED WITH SPECIFIC MANUFACTURER GUIDELINES AND INSTALLATION RECOMMENDATIONS AS NOTED IN LIGHTING CONTROL SHOP DRAWINGS. ADJUST LOCATIONS AS REQURIED TO MEET MANUFACTURER GUIDELINES.
4. LIGHTING CONTROL SYSTEMS SHALL BE PROVIDED AS A COMPLETE OPERATING SYSTEM AND INCLUDE MATERIAL AND INSTALLATION FOR ALL POWER PACKS, ACCESSORIES, CONTROLLERS, AND WIRING REQUIRED FOR THE SYSTEM.

DEMOLITION AND RENOVATION NOTES - ELECTRICAL

A. THE ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAVE BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH ARE NOT SHOWN, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH ARE SHOWN.

B. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE. MINIMUM 48 HOUR ADVANCE NOTICE PRIOR TO TAKING AREAS OUT OF SERVICE.

C. PROVIDE PLANT, LABOR, AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

D. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND ADJACENT REMOVALS. REMOVE EXISTING WIRING FOR REMOVED DEVICES.

E. ALL WIRING FOR REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL CONDUIT SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE OR WHERE FIELD VERIFIED FOR SUITABLE USE WHEN LOCATED WITHIN EXISTING BLOCK WALLS OR BELOW SLABS.

F. BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING.

G. CIRCUITS SERVING AREAS BEYOND THE DEMOLITION AREA SHALL BE MAINTAINED. EXTEND AND/OR RECONNECT NEW WIRING TO EXISTING AS REQUIRED TO MAINTAIN EXISTING CIRCUITS.

H. EXISTING BUILDING SYSTEMS THAT ARE NOT AFFECTED BY THE SCOPE OF THE PROJECT ARE TO BE KEPT OPERATIONAL IN OCCUPIED AREAS OF THE BUILDING THROUGH THE DURATION OF THE PROJECT. COORDINATE REQUIRED OUTAGES WITH THE OWNER IN ADVANCE OF SHUT DOWN.

I. DO NOT CUT EXISTING TELECOMMUNICATION WIRING, CABLES OR CONDUIT AS EXISTING SYSTEMS SHALL REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION. CONTRACTOR WHO CUTS IN-SERVICE CABLES SHALL BE RESPONSIBLE FOR DOWNTIME AND COSTS TO REPAIR.

J. INSTALL STAINLESS STEEL COVER PLATE OVER HOLE AT REMOVED DEVICE LOCATIONS, INCLUDING BUT NOT LIMITED TO, CLOCKS, RECEPTACLES, SWITCHES, JUNCTION BOXES, ETC.

K. PROVIDE CUTTING AND PATCHING OF EXISTING CONSTRUCTION AS REQUIRED FOR THE PROPER COMPLETION OF THE DEMOLITION WORK AND THE INSTALLATION OF THE NEW WORK.

L. EQUIPMENT AND DEVICES SHOWN AS EXISTING OR AS REMOVE/RELOCATE SHALL BE PROTECTED AND HANDLED WITH APPROPRIATE CARE SO AS TO MAINTAIN FULL FUNCTIONAL AND AESTHETIC INTEGRITY OF THE DEVICE.

M. REMOVED EQUIPMENT AND SYSTEMS SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. ALL MATERIALS NOT SALVAGED BY THE OWNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR PROPER DISPOSAL.

N. REMOVE AND REINSTALL CEILING TILES REQUIRED FOR THE WORK BEING DONE UNDER THIS CONTRACT. DAMAGED CEILING TILES SHALL BE REPLACED TO MATCH EXISTING.

LIGHTING LAMP REPLACEMENT NOTES

A. ALL EXISTING LIGHTING TAGGED "E" ON PLANS SHALL BE PROVIDED WITH NEW LAMPS TO MATCH EXISTING TYPE AND WATTAGE, WITH 3500K COLOR TEMP. PROVIDE LAMPS FOR EACH FIXTURE TYPE AS FOLLOWS (CONTRACTOR TO FIELD VERIFY):

RECESSED 2X4: (3) 32W T8 FLUORESCENT
RECESSED 2X2: (3) 40W TT5 FLUORESCENT
RECESSED ROUND DOWNLIGHT: (2) 18W CFL TT
SURFACE AND PENDANT STRIPS: (2) 32W T8 FLUORESCENT
LINEAR PENDANT: (2) 32W T8 FLUORESCENT, EACH 4FT SECTION

ELECTRICAL POWER NOTES

A. NEW MODULAR FURNITURE: EACH MODULAR FURNITURE POD SHALL BE PROVIDED WITH ELECTRICAL POWER AND DATA CABLING ROUGH-INS. EXISTING POWER LOCATED NEAR FURNITURE SHALL BE REUTILIZED AND EXTENDED TO THE NEW FURNITURE ROUGH-IN, CIRCUITS AS DESIGNATED ON THE NEW ELECTRICAL PLAN. WHERE EXISTING FLUSH POWER JUNCTION BOXES COINCIDE WITH NEW FURNITURE CIRCUITING SHOWN ON PLANS, THE EXISTING JUNCTION BOX MAY BE USED TO CONNECT TO NEW FURNITURE WHERE LOCATED WITH 6 FEET OF THE FURNITURE CONNECTION. EXTEND EXISTING POWER WIRING BELOW FLOOR OR HORIZONTALLY WITHIN WALL, AS FIELD CONDITIONS REQUIRE. REMOVE AND REPAIR EXISTING WALL FINISHES WHERE EXTENDING HORIZONTAL RUNS. REFER TO PLANS FOR MODULAR FURNITURE POWER AND DATA CONNECTION LOCATIONS. ROUGH-IN SHALL BE COORDINATED WITH MODULAR FURNITURE MANUFACTURER AND INSTALLED PER APPROVED FURNITURE SYSTEM SHOP DRAWINGS.

B. CONNECTIONS CRITERIA AT MODULAR FURNITURE: TWO (2) DUPLEX RECEPTACLES PER WORKSTATION DESK AND (3) WORKSTATIONS PER 20-AMP, 120-VOLT CIRCUIT.

C. PROVIDE DEDICATED BRANCH CIRCUITS TO COPIER MACHINES.

D. PROVIDE (3) DEDICATED 20A BRANCH CIRCUITS AND RECEPTACLES AT THE FRAME ROOM RACKS, LOCATED AT LEVEL 2 AND LEVEL 3.

E. PROVIDE RACK MOUNTED UPS AT EACH IDF ROOM IN THE FIRST 4-POST RACK, 2KW EATON 5PX SERIES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

F. PROVIDE ELECTRICAL CONNECTIONS AND DISCONNECTS FOR NEW MECHANICAL EQUIPMENT. REFER TO MECHANICAL PLANS AND SCHEDULES.

POWER SYMBOLS

Symbol	Description
	SINGLE RECEPTACLE, WALL MOUNT +18", OR AS NOTED
	DUPLEX RECEPTACLE, CEILING MOUNT
	DUPLEX RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
SR	DUPLEX RECEPTACLE, SURFACE RACEWAY, WALL MOUNT +18", OR AS NOTED
G	DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
EWC	DUPLEX RECEPTACLE, MOUNTED WITHIN WATER COOLER HOUSING, VERIFY HEIGHT. CONNECT TO GFCI, CIRCUIT BREAKER OR REMOTE WALL DEVICE.
W	DUPLEX GFCI WEATHER RESISTANT RECEPTACLE WITH WEATHER-PROOF IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT +24", OR AS NOTED
	QUADRAPLEX RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
	QUADRAPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED
FB#	DUPLEX RECEPTACLE IN FLOORBOX, TAMPER-RESISTANT. REFER TO SCHEDULE.
FB#	QUADRUPLEX RECEPTACLE IN FLOORBOX, TAMPER-RESISTANT. REFER TO SCHEDULE.
FB# 1	FLOOR BOX, COMBINATION POWER AND DATA ENCLOSURE. QUANTITY OF CABLES AS NOTED. DEVICES AS NOTED. REFER TO SCHEDULE.
	SPECIAL RECEPTACLE, WALL MOUNT +18", OR AS NOTED, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR RECEPTACLE TYPE
	SPECIAL RECEPTACLE, CEILING MOUNT, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR RECEPTACLE TYPE
FURN	EQUIPMENT CONNECTION, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE
	EQUIPMENT CONNECTION, WALL MOUNT +18", OR AS NOTED, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE
G	BLANK FACE GFCI DEVICE, WALL MOUNT +48", OR AS NOTED
	MOTORIZED DOOR OPERATOR CONTROL STATION, WALL MOUNT, +48", OR AS NOTED
	DOOR PUSH BUTTON (WEATHERPROOF), +48" OR AS NOTED
GE	GYM EQUIPMENT CONTROLLER, WALL MOUNT +48", OR AS NOTED
J	JUNCTION BOX, WITH PULL STRING, WALL MOUNT, REFER TO PLAN OR DETAIL FOR MOUNTING HEIGHT
D	HAND DRYER, WALL MOUNT, REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.
	GROUND BAR
T	UTILITY TRANSFORMER
M	UTILITY METER
SPD	SURGE PROTECTIVE DEVICE
PP	POWER POLE RACEWAY
	SAFETY DISCONNECT SWITCH
	VFD
	VFD WITH INTEGRAL DISCONNECT
	EMERGENCY PUSH BUTTON
	PLUG STRIP, SURFACE MOUNTED. ELEVATION AS NOTED.
	PANELBOARD - SURFACE MOUNTED
	PANELBOARD - RECESSED IN WALL
	DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.
	CORD REEL, CEILING MOUNTED - REFER TO DETAIL
GEN	GENERATOR
	GROUND RING

LIGHTING SYMBOLS

Symbol	Description
a	RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)
	ROUND LIGHT FIXTURE - SURFACE MOUNTED
	SQUARE LIGHT FIXTURE - SURFACE MOUNTED
	PENDANT MOUNTED LIGHT FIXTURE
	ROUND APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH
	SQUARE APERTURE RECESSED DOWNLIGHT FIXTURE, ARROW INDICATES WALLWASH
	SURFACE MOUNTED STRIP FIXTURE
	LINEAR PENDANT MOUNTED FIXTURE
	INDUSTRIAL STRIP LIGHT FIXTURE
	WALL MOUNTED STRIP LIGHT FIXTURE.
	COVE LIGHT FIXTURE
	CONTINUOUS WALL MOUNTED FIXTURE.
	TRACK LIGHTING, ELEVATION AS NOTED.
	EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED
	EMERGENCY LIGHT FIXTURE, CEILING MOUNT
	EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
	EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
	COMBINATION EXIT SIGN & EMERGENCY LIGHT, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
	COMBINATION EXIT SIGN & EMERGENCY LIGHT, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS
	EXTERIOR LIGHT FIXTURE, WALL MOUNT +10', OR AS NOTED
	INTERIOR LIGHT FIXTURE, WALL MOUNT
	EXTERIOR POLE MOUNTED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
	BOLLARD LIGHT FIXTURE
	EXTERIOR FLOOD LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
	CEILING FAN
$ a	SINGLE POLE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
$ 3 b	THREE WAY SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
$ P c	PILOT LIGHT SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
$ D d	DIMMER SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG
S1 e	LIGHTING CONTROLS LOW VOLTAGE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
1 OS c	OCCUPANCY SENSOR, WALL MOUNT +48" OR AS NOTED, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
2 OS a	OCCUPANCY SENSOR, CEILING MOUNT, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
2 D	DAYLIGHTING SENSOR, CEILING MOUNT, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE
FURN	LIGHTING CONNECTION, REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION
ETD	EMERGENCY TRANSFER DEVICE
LC	LIGHTING CONTACTOR
R	RELAY
PC	PHOTOCELL
RC	ROOM/ZONE CONTROLLER, MOUNT ABOVE ACCESSIBLE CEILING

GENERAL SYMBOLS

Symbol	Description
	CONDUIT SLEEVE
	CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE
	CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE
J	JUNCTION BOX, CEILING OR FLOOR MOUNTED.
J	JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
	CIRCUIT HOMERUN, CONCEALED CONDUIT OR CABLE
	CIRCUIT HOMERUN, UNDER FLOOR CONDUIT OR CABLE
#	KITCHEN EQUIPMENT TAG NUMBER, REFER TO KITCHEN EQUIPMENT CONNECTION SCHEDULE
#	KEYNOTE
XXX / X	EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE
1 / A101 SIM	DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE / SHEET REFERENCE
1 / A101 SIM	SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE / SHEET REFERENCE
A101 Ref 1	INTERIOR ELEVATION DRAWING REFERENCE TAG

ELECTRICAL ABBREVIATIONS

A	DEVICE MOUNTED +8" ABOVE COUNTER TOP (VERIFY LOCATION)	NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	NM	NONMETALLIC
ATS	AUTOMATIC TRANSFER SWITCH	NTS	NOT TO SCALE
C	CEILING	OC	ON CENTER
CB	CIRCUIT BREAKER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CT	CURRENT TRANSFORMER	OFOI	OWNER FURNISHED, OWNER INSTALLED
E	EXISTING ITEM TO REMAIN	R	EXISTING ITEM TO BE REMOVED
EC	ELECTRICAL CONTRACTOR	RR	EXISTING ITEM TO BE REMOVED AND RELOCATED
EM	EMERGENCY LIGHT FIXTURE	RN	EXISTING ITEM TO BE REMOVED AND REPLACED WITH NEW
ER	NEW LOCATION OF EXISTING ITEM	SCCR	SHORT CIRCUIT CURRENT RATING
F	ROUGH IN FOR FUTURE DEVICE	T	TAMPER PROOF DEVICE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TCC	TEMPERATURE CONTROL CONTRACTOR
FACP	FIRE ALARM CONTROL PANEL	TV	TELEVISION
FSD	FIRE SMOKE DAMPER	TYP	TYPICAL
G	GROUND FAULT CIRCUIT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
GND	GROUND	V	VOLTS
KVA	KILO-VOLT-AMPERES	VA	VOLT-AMPERES
KW	KILOWATTS	WG	WIREGUARD COVER
MC	MECHANICAL CONTRACTOR	WP	WEATHERPROOF DEVICE
MCB	MAIN CIRCUIT BREAKER	WR	WEATHER RESISTANT DEVICE
MDP	MAIN DISTRIBUTION PANEL	+24"	INDICATES MOUNTING HEIGHT CENTER LINE OF DEVICE TO FINISHED FLOOR
MLO	MAIN LUGS ONLY		
N	NEW DEVICE IN EXISTING LOCATION		

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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

ELECTRICAL GENERAL NOTES & SYMBOLS

E000

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ELECTRICAL DEMOLITION PLAN - LEVEL 1 (1)

1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES

A. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT.

B. REMOVE ELECTRICAL FACILITIES SELECT DEMOLITION AREAS TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

C. THIS ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAS BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.

D. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND REMOVALS. WIRING SHALL BE REMOVED. ALL WIRING FOR THE REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE IMMEDIATE DEMOLITION AREA SHALL BE MAINTAINED.

E. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.

F. PANELBOARDS, DISCONNECTS, FIXTURES, WIRING DEVICES, SIGNAL DEVICES, ETC., SHOWN ON PLANS SHALL BE REMOVED UNLESS NOTED OTHERWISE. REMOVAL SHALL BE DONE IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION WORK. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.

G. EXISTING FURNITURE JUNCTION BOXES AT WINDOWS: REMOVE EXPOSED SURFACE RACEWAY BACK TO SOURCE JUNCTION BOX AND PROVIDE BLANK COVER AT EXISTING FLUSH JUNCTION BOX. PREPARE FOR EXTENSION TO NEW MODULAR FURNITURE LOCATIONS PER PLANS.

H. WHERE EXISTING LIGHTING IS BEING REMOVED, MAINTAIN EXISTING BRANCH CIRCUITING IN THE ROOM OR AREA TO REFEED RELOCATED OR NEW FIXTURES PER PLAN. FIELD TRACE AND IDENTIFY BRANCH CIRCUIT AND SWITCHLEGS AND PREPARE FOR RECONNECTION. REFER TO LIGHTING PLANS FOR ADDITIONAL REQUIREMENTS.

I. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

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ELECTRICAL DEMOLITION - LEVEL 1

ED101

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ELECTRICAL DEMOLITION PLAN - LEVEL 2 (1)

1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES

A. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT.

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- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

KEYNOTES (#)

1 JUNCTION BOX WIRING ABANDONED AT CEILING. FIELD TRACE EXISTING CIRCUITS AT CEILING AND EXTEND TO JUNCTION BOX. PREPARE FOR NEW FURNITURE CONNECTIONS.

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ELECTRICAL DEMOLITION - LEVEL 2

ED102

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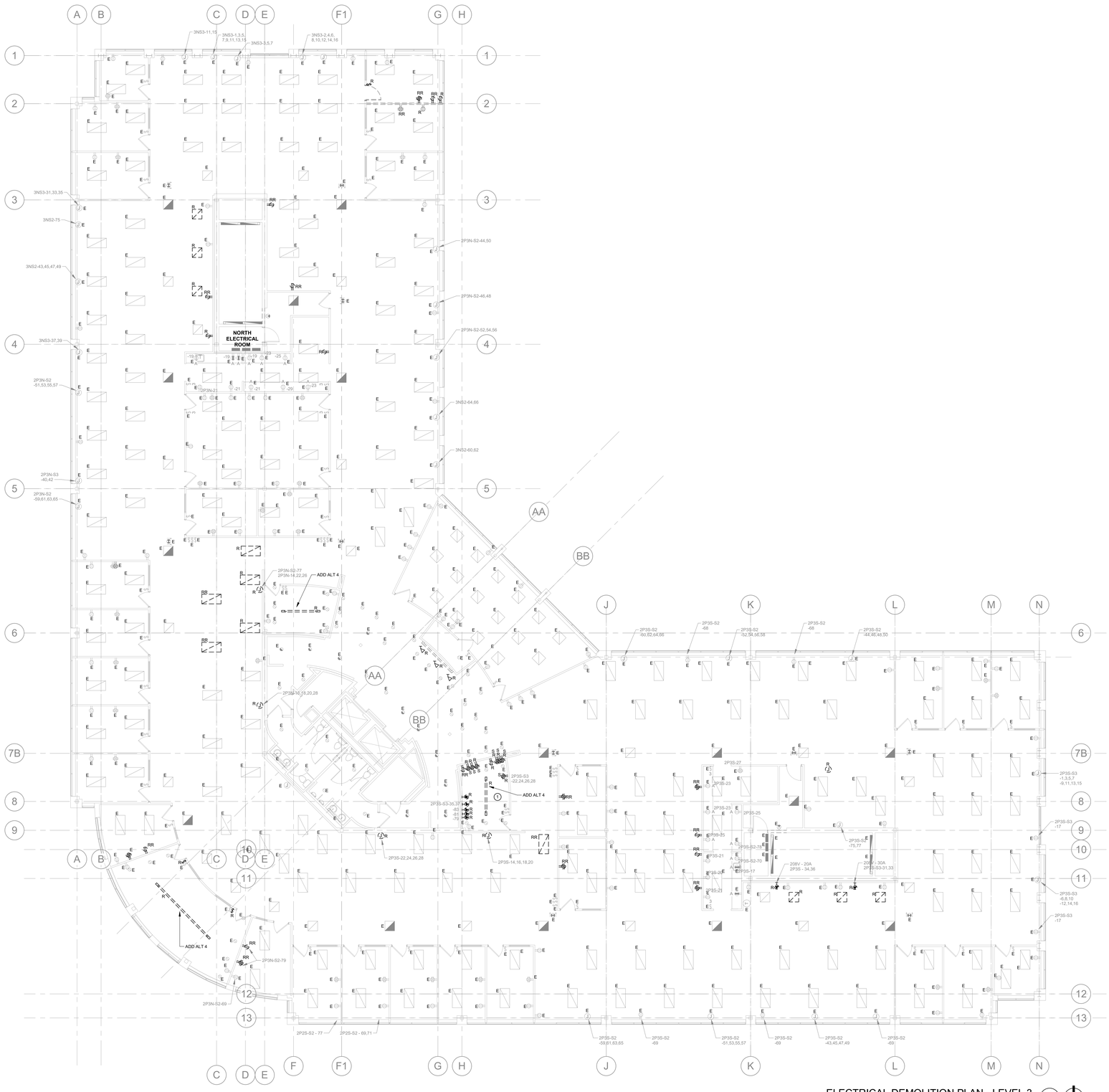

ELECTRICAL DEMOLITION PLAN - LEVEL 3 (1)
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES

A. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT.

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D. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND REMOVALS. WIRING SHALL BE REMOVED. ALL WIRING FOR THE REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE IMMEDIATE DEMOLITION AREA SHALL BE MAINTAINED.

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G. EXISTING FURNITUIRE JUNCTION BOXES AT WINDOWS: REMOVE EXPOSED SURFACE RACEWAY BACK TO SOURCE. JUNCTION BOX AND PROVIDE BLANK COVER AT EXISTING FLUSH JUNCTION BOX. PREPARE FOR EXTENSION TO NEW MODULAR FURNITURE LOCATIONS PER PLANS.

H. WHERE EXISTING LIGHTING IS BEING REMOVED, MAINTAIN EXISTING BRANCH CIRCUITING IN THE ROOM OR AREA TO REFEED RELOCATED OR NEW FIXTURES PER PLAN. FIELD TRACE AND IDENTIFY BRANCH CIRCUIT AND SWITCHLEGS AND PREPARE FOR RECONNECTION. REFER TO LIGHTING PLANS FOR ADDITIONAL REQUIREMENTS.

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- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

KEYNOTES (#)

1 DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED RACEWAYS, BOXES, AND DEVICES IN THIS SPACE. REMOVE (5) 4"C AND (4)1-1/2"C CONDUIT SLEEVES AT CEILING. EXISTING FLUSH MOUNTED DEVICES TO REMAIN IN PLACE OR BE REMOVED AND RELOCATED AS NOTED.

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ELECTRICAL DEMOLITION - LEVEL 3

ED103

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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

ELECTRICAL LIGHTING PLAN - LEVEL 1
E101

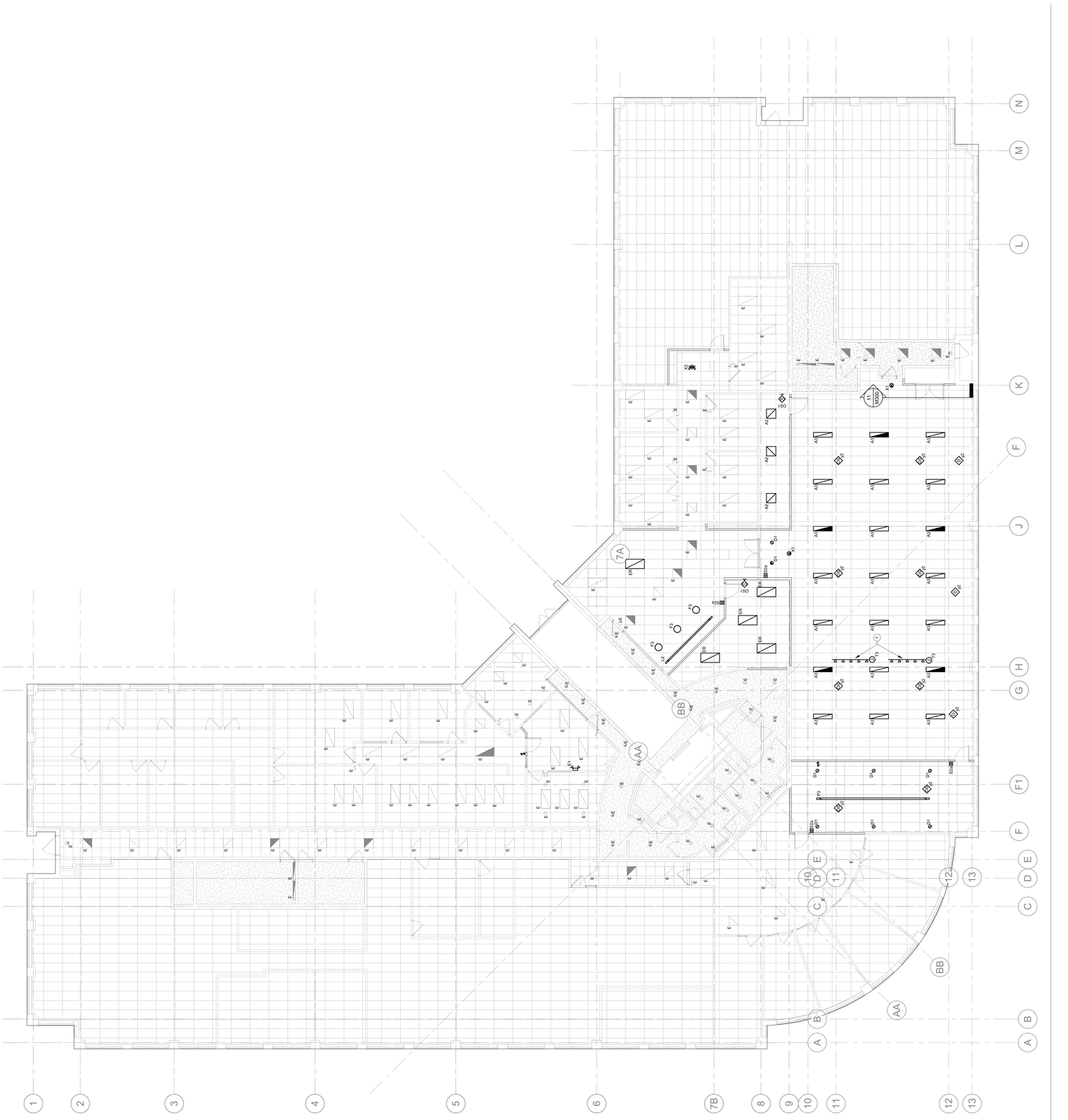
LIGHTING GENERAL NOTES

A. COORDINATE LOCATION INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. RELOCATED AND NEW FIXTURES SHALL UTILIZE THE EXISTING BRANCH CIRCUIT PREVIOUSLY FEEDING THE AREA WHERE LIGHTING IS REMOVED. AREAS WITH OCCUPANCY SENSOR CONTROLS SHALL BE CONNECTED DIRECTLY TO THE LIGHTING BRANCH CIRCUIT CONSTANT HOT. AREAS WHICH ARE IN COMMON AREAS WITHOUT OCCUPANCY SENSOR CONTROL SHALL BE CONNECTED TO THE EXISTING BRANCH CIRCUIT AND SWITCHLEGS. FIELD TRACE AND IDENTIFY BRANCH CIRCUIT AND SWITCHLEGS EXISTING EACH AREA. NOTE: WORK OF DIRECTING LIGHTING BRANCH CIRCUIT AND/OR SWITCHLEG AS APPLICABLE FOR THE SPACE.

KEYNOTES

1. TRACK LIGHTS TO BE FOCUSED AND AIMED AT BOARD SEATING AREA. VERIFY LOCATION OF TRACK LIGHTING WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.



1 LIGHTING PLAN - LEVEL 1
1/8" = 1'-0"

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1 LIGHTING PLAN - LEVEL 2
1/8" = 1'-0"

LIGHTING GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

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KEYNOTES

1 VERIFY CEILING CONSTRUCTION, NEW FIXTURE LOCATION AND FINAL FIXTURE SELECTION WITH ARCHITECT PRIOR TO ROUGH-IN.

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ELECTRICAL LIGHTING PLAN - LEVEL 2

E102

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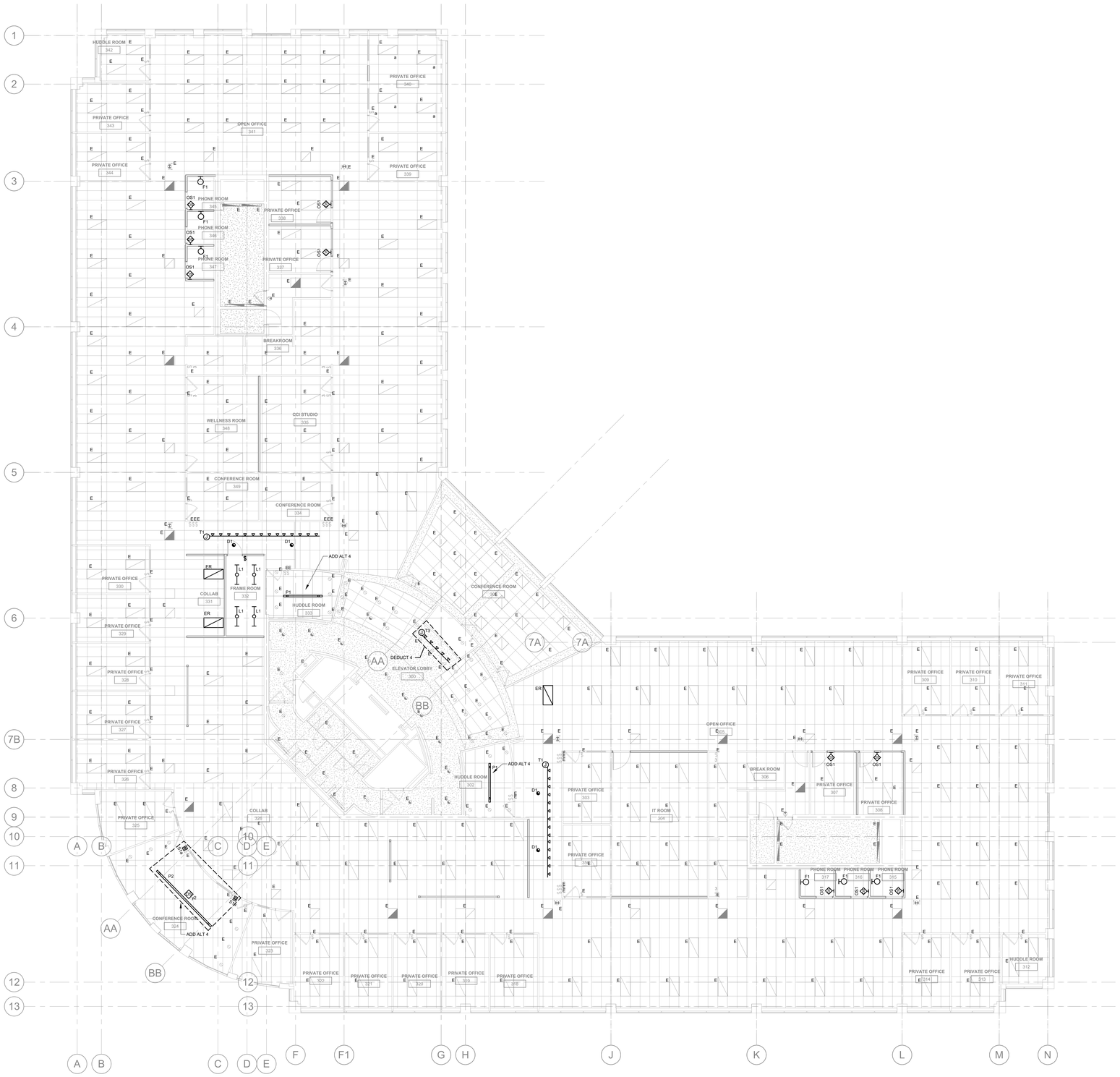

1 LIGHTING PLAN - LEVEL 3
1/8" = 1'-0"

LIGHTING GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

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ELECTRICAL LIGHTING PLAN - LEVEL 3

E103

2/18/2022 1:01:24 PM

ELECTRICAL PLAN - LEVEL 1 (1)

1/8" = 1'-0"

POWER GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH M.C. AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

D. WHERE NEW CONVENIENCE RECEPTACLES ARE SHOWN, CENTER ON LENGTH OF WALL, OR ALIGNED WITH FURNITURE WHERE OCCURING, UNLESS OTHERWISE NOTED. DISCREPANCIES SHALL BE RESOLVED BY THE ARCHITECT.

E. MODULAR FURNITURE CONNECTIONS: UTILIZE EXISTING BRANCH CIRCUIT LOCATED IN WALLS WHERE FURNITURE IS PROPOSED, AS SHOWN ON THE DEMOLITION DRAWINGS. FIELD TRACE EXISTING FLUSH SOURCE JUNCTION BOX, INTERCEPT AND EXTEND POWER CONNECTIONS TO NEW FURNITURE. NEW WIRING SHALL BE INSTALLED CONCEALED BELOW FLOOR OR BEHIND WALL FINISH. PROVIDE RATED FLOOR PENETRATIONS, OR REMOVE, PATCH AND REPAIR EXISTING WALL FINISH AS REQUIRED TO EXTEND BRANCH CIRCUITING.

F. OUTLETS AT CASEWORK: COORDINATE INSTALLATION WITH APPROVED MILLWORK SHOP DRAWINGS AND EQUIPMENT LOCATIONS. VERIFY ROUGH-IN DIMENSIONS WITH ARCHITECT PRIOR TO INSTALLATION.

G. DEVICES TAGGED "ER": INTERCEPT AND EXTEND EXISTING BRANCH CIRCUIT SERVING NEARBY DEVICE TAGGED "RR" ON THE DEMOLITION PLAN. PROVIDE NEW DEVICE TO REPLACE EXISTING. FIELD TRACE, INTERCEPT AND EXTEND EXISTING BRANCH CIRCUIT TO NEW LOCATION.

H. QUADRAPLEX RECEPTACLES TAGGED "TV": PROVIDE TWO (2) DUPLEX RECEPTACLES AT RECESSED COMBINATION TV BACKBOX. REFER TO AV DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. WHERE COMBINATION POWER/AV BACKBOX IS SHOWN AT TV'S ON AV DRAWINGS, INSTALL RECEPTACLES IN THE SPECIFIED BOX. WHERE NO COMBINATION BACKBOX IS SHOWN AT TV'S ON THE AV DRAWINGS, PROVIDE SEMI-RECESSED 2-GANG BOX, ARLINGTON TVBS505.

KEYNOTES (#)

1 CONNECT TO ELECTRIFIED FURNITURE. INTERCEPT AND EXTEND EXISTING NEARBY BRANCH CIRCUITS AT WALL TO NEW ROUGH-IN LOCATION DIRECTLY ADJACENT TO NEW FURNITURE

2 VERIFY ROUGH-IN LOCATION WITH APPROVED LOCKER EQUIPMENT ELECTRICAL CONNECTION REQUIREMENTS.

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ELECTRICAL PLAN - LEVEL 1

E201

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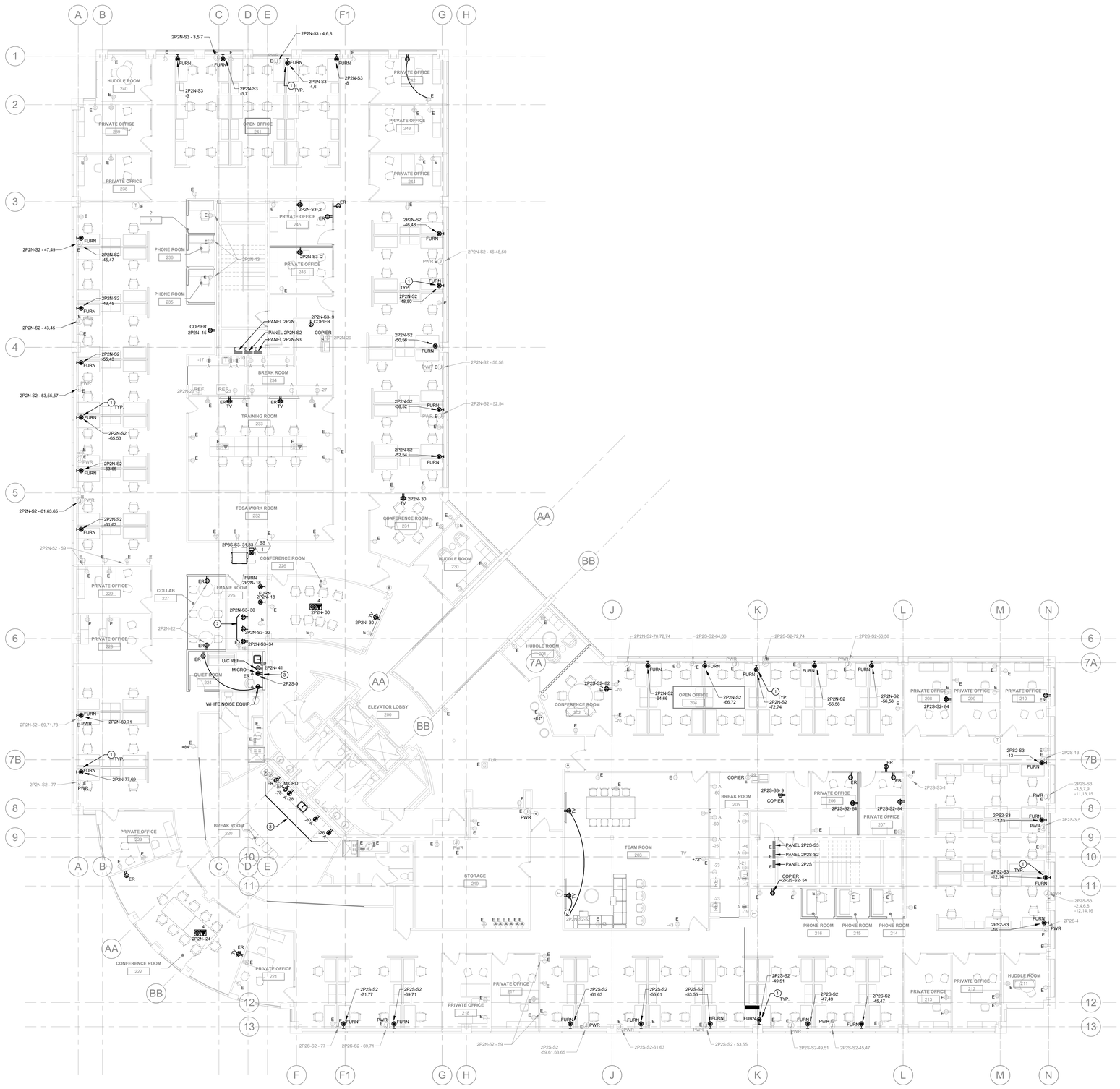

ELECTRICAL PLAN - LEVEL 2 (1)
1/8" = 1'-0"

POWER GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH M.C. AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

D. WHERE NEW CONVENIENCE RECEPTACLES ARE SHOWN, CENTER ON LENGTH OF WALL, OR ALIGNED WITH FURNITURE WHERE OCCURING, UNLESS OTHERWISE NOTED. DISCREPANCIES SHALL BE RESOLVED BY THE ARCHITECT.

E. MODULAR FURNITURE CONNECTIONS: UTILIZE EXISTING BRANCH CIRCUIT LOCATED IN WALLS WHERE FURNITURE IS PROPOSED, AS SHOWN ON THE DEMOLITION DRAWINGS. FIELD TRACE EXISTING FLUSH SOURCE JUNCTION BOX, INTERCEPT AND EXTEND POWER CONNECTIONS TO NEW FURNITURE. NEW WIRING SHALL BE INSTALLED CONCEALED BELOW FLOOR OR BEHIND WALL FINISH. PROVIDE RATED FLOOR PENETRATIONS, OR REMOVE, PATCH AND REPAIR EXISTING WALL FINISH AS REQUIRED TO EXTEND BRANCH CIRCUITING.

F. OUTLETS AT CASEWORK: COORDINATE INSTALLATION WITH APPROVED MILLWORK SHOP DRAWINGS AND EQUIPMENT LOCATIONS. VERIFY ROUGH-IN DIMENSIONS WITH ARCHITECT PRIOR TO INSTALLATION.

G. DEVICES TAGGED "ER": INTERCEPT AND EXTEND EXISTING BRANCH CIRCUIT SERVING NEARBY DEVICE TAGGED "RR" ON THE DEMOLITION PLAN. PROVIDE NEW DEVICE TO REPLACE EXISTING. FIELD TRACE, INTERCEPT AND EXTEND EXISTING BRANCH CIRCUIT TO NEW LOCATION.

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KEYNOTES (#)

1. CONNECT TO ELECTRIFIED FURNITURE. INTERCEPT AND EXTEND EXISTING NEARBY BRANCH CIRCUITS AT WALL TO NEW ROUGH-IN LOCATION DIRECTLY ADJACENT TO NEW FURNITURE.
2. INSTALL ONE DEDICATED QUADRAPLEX RECEPTACLE AT THE BOTTOM OF EACH RACK NEAR FLOOR.
3. COORDINATE DEVICE ROUGH-IN LOCATIONS WITH CASEWORK APPROVED SHOP DRAWINGS. REFER TO INTERIOR ELEVATIONS. REFER TO DEMOLITION PLANS FOR PREVIOUS LOCATION OF RELOCATED DEVICES.

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ELECTRICAL PLAN - LEVEL 2

E202

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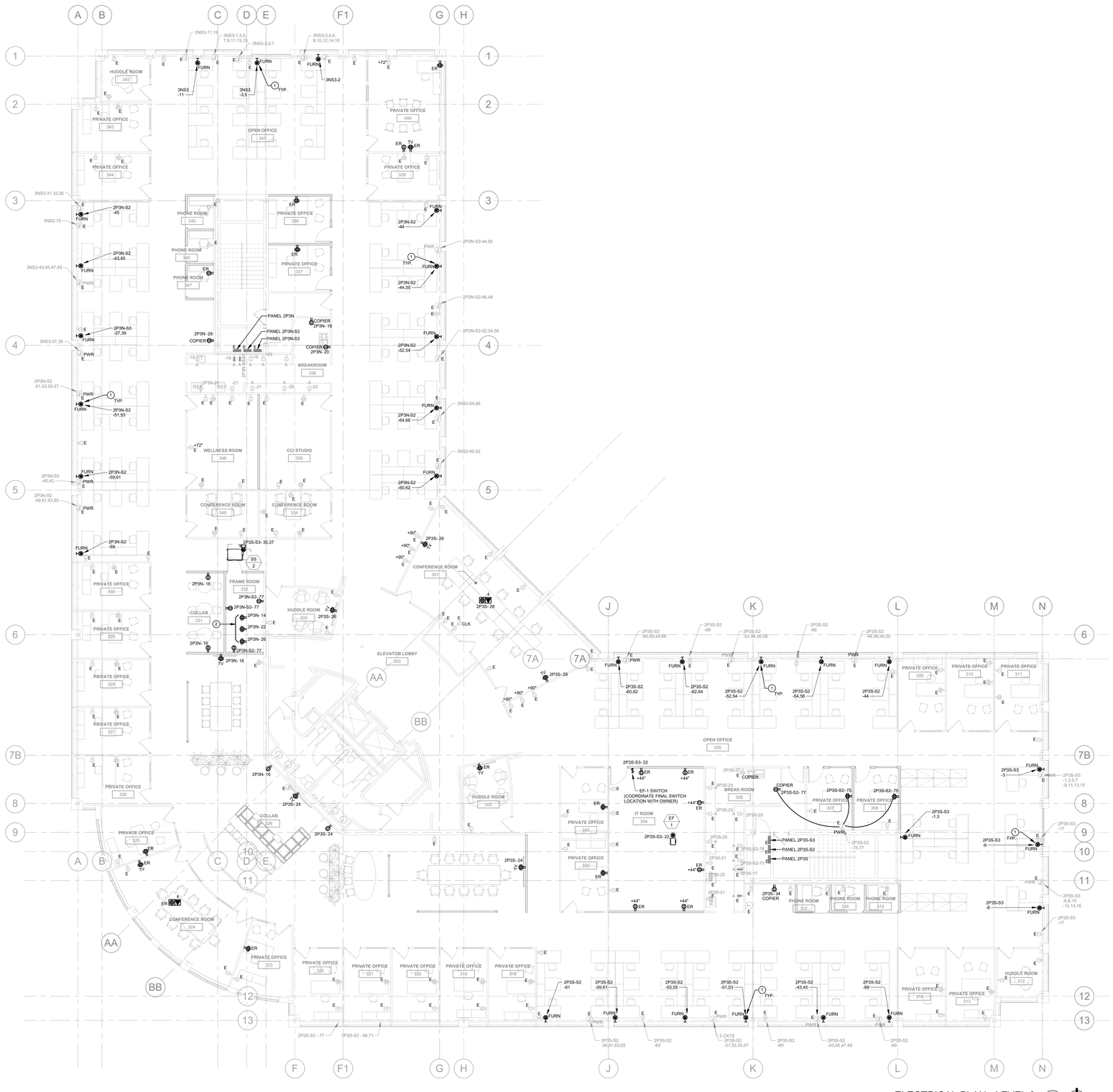

ELECTRICAL PLAN - LEVEL 3 (1)

1/8" = 1'-0"

POWER GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH M.C. AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

D. WHERE NEW CONVENIENCE RECEPTACLES ARE SHOWN, CENTER ON LENGTH OF WALL, OR ALIGNED WITH FURNITURE WHERE OCCURING, UNLESS OTHERWISE NOTED. DISCREPANCIES SHALL BE RESOLVED BY THE ARCHITECT.

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F. OUTLETS AT CASEWORK: COORDINATE INSTALLATION WITH APPROVED MILLWORK SHOP DRAWINGS AND EQUIPMENT LOCATIONS. VERIFY ROUGH-IN DIMENSIONS WITH ARCHITECT PRIOR TO INSTALLATION.

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KEYNOTES (#)

1 CONNECT TO ELECTRIFIED FURNITURE. INTERCEPT AND EXTEND EXISTING NEARBY BRANCH CIRCUITS AT WALL TO NEW ROUGH-IN LOCATION DIRECTLY ADJACENT TO NEW FURNITURE.

2 INSTALL ONE DEDICATED QUADRAPLEX RECEPTACLE AT THE BOTTOM OF EACH RACK NEAR FLOOR.

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ELECTRICAL PLAN - LEVEL 3

E203

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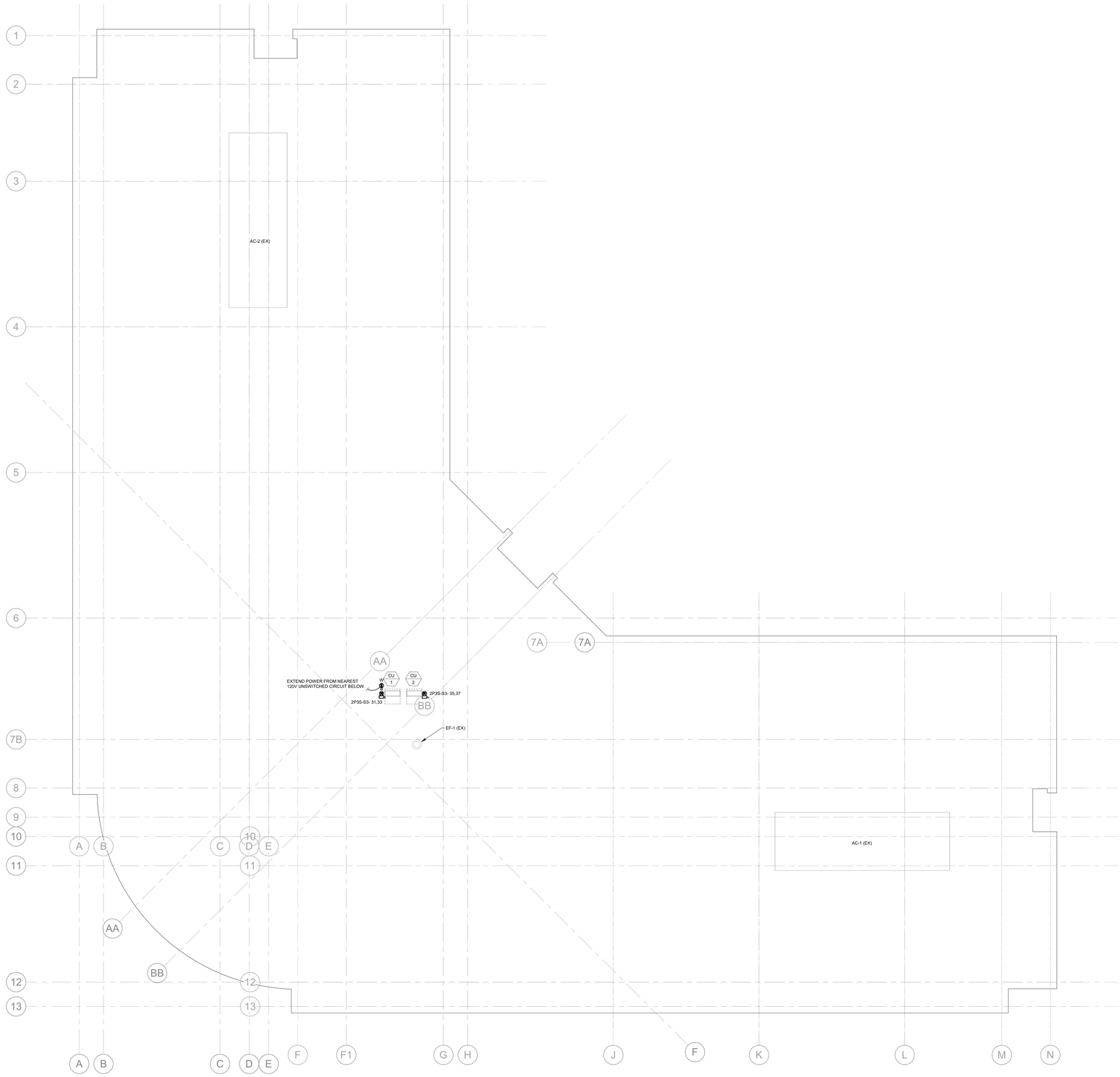

1 ELECTRICAL PLAN - ROOF
1/8" = 1'-0"

POWER GENERAL NOTES

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B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH M.C. AND FINAL MECHANICAL SHOP DRAWINGS.

C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

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ELECTRICAL PLAN - ROOF

E204

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EQUIPMENT CONNECTION SCHEDULE

ABBREVIATIONS:

1	NEMA 1 ENCLOSURE	INT	INTEGRAL WITH EQUIPMENT FROM FACTORY
3R	NEMA 3R ENCLOSURE	MMS	MANUAL MOTOR STARTER WITH FUSES
4	NEMA 4 ENCLOSURE	NFD	NON-FUSED DISCONNECT SWITCH, HEAVY DUTY
4X	NEMA 4X ENCLOSURE	RD	RETURN AIR DUCT DETECTOR
BO	PROVIDED BY OTHERS	RSR	RUN STATUS RELAY , NORMALLY OPEN
CB	CIRCUIT BREAKER IN PANEL	SD	SUPPLY AIR DUCT DETECTOR
CSD	COMBINATION STARTER/DISCONNECT	SSP	START/STOP PUSHBUTTON WITH PILOT
CP	CORD AND PLUG PROVIDED WITH UNIT	SS	START/STOP PUSHBUTTON
ECB	ENCLOSED CIRCUIT BREAKER	ST	SHUNT TRIP
FAR	FIRE ALARM SHUTDOWN RELAY	TOR	TIME DELAY OFF RELAY
FDS	FUSED DISCONNECT SWITCH, HEAVY DUTY	TS	TOGGLE SWITCH WITH PLUG FUSE
GF	GROUND FAULT CIRCUIT INTERRUPTION	VFD	VARIABLE FREQUENCY DRIVE
HOA	HAND-OFF-AUTO		

TAG	ELECTRICAL CHARACTERISTICS					DISCONNECT				CONTROLS		REMARKS
	VOLTAGE	PHASE	MOTOR HP	KW	MCA	TYPE	SIZE (AMPS)	NEMA RATING	FUSE SIZE (AMPS)	STARTER	DESCRIPTION	
CU-1	208 V	1	-	-	14	FDS	30	3R	20	-	-	POWERS SS-1.
CU-2	208 V	1	-	-	14	FDS	30	3R	20	-	-	POWERS SS-2.
EDH-1	480 V	3	-	7	8.4	BO	-	-	-	-	-	PROVIDE CONTACTOR/RELAY TO INTERLOCK EDH-1 WITH ERV-1.
EF-1	120 V	1	-	0.093	0.8	TS	20	1	-	-	-	PROVIDE WALL MOUNTED TOGGLE SWITCH AND LABEL "EXHAUST FAN". REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL REQUIREMENTS.
ERV-1	208 V	1	1	-	9.9	BO	-	-	-	-	-	
SS-1	208 V	1	-	-	1	TS	20	1	-	-	-	POWER FED FROM OUTDOOR UNIT AT ROOF. PROVIDE CONDUIT FROM INDOOR UNIT TO ROOF UNIT AND WIRING CONNECTIONS PER MANUFACTURER REQUIREMENTS.
SS-2	208 V	1	-	-	1	TS	20	1	-	-	-	POWER FED FROM OUTDOOR UNIT AT ROOF. PROVIDE CONDUIT FROM INDOOR UNIT TO ROOF UNIT AND WIRING CONNECTIONS PER MANUFACTURER REQUIREMENTS.
VAV-1	120 V	1	-	-	1	TS	20	1	-	-	-	
VAV-2	120 V	1	-	-	1	TS	20	1	-	-	-	

NOTES:

A. PROVIDE FUSE AMP RATINGS PER EQUIPMENT NAMEPLATE, WHERE FUSES ARE INSTALLED.

B. SAFETY DISCONNECT SWITCHES AT ROOF SHALL BE MOUNTED ON PIPE OR METAL STRUT VERTICAL SUPPORT, ADJACENT TO MECHANICAL EQUIPMENT AND LABELED. COORDINATE LOCATION WITH MECHANICAL SYSTEM INSTALLER AND MAINTAIN ACCESS CLEARANCE TO MECHANICAL EQUIPMENT. SEAL ROOF PENETRATIONS PER ARCHITECTURAL ROOFING REQUIREMENTS.

C. CONDUIT SHALL BE CONCEALED BELOW ROOF, EXCEPT FOR STUB-UP CONNECTIONS TO EQUIPMENT AND DISCONNECTS, UNLESS OTHERWISE NOTED OR APPROVED.

D. CONTRACTOR TO CONFIRM OVERCURRENT PROTECTION RATINGS RECOMMENDED BY MANUFACTURER OF APPROVED EQUIPMENT PRIOR TO ORDERING AND INSTALLATION OF CIRCUIT BREAKERS IN PANELS.

LIGHTING FIXTURE SCHEDULE

NOTES:

1. ALL FIXTURES SHALL BE U.L. OR SIMILARLY LISTED.
2. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING LOCATIONS, DETAILS, AND CONFIGURATIONS OF ALL LUMINAIRES. IF ARCHITECTURAL DRAWINGS DO NOT CLARIFY EXACT MOUNTING LOCATION OR DETAIL, ISSUE AN RFI FOR ARCHITECT TO SPECIFICALLY CLARIFY PRIOR TO FIXTURE ROUGH-IN.
3. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES. VERIFY MOUNTING OPTIONS WITH FIELD CONDITIONS PRIOR TO SUBMITTALS.
5. AIM AND TARGET ADJUSTABLE LIGHT FIXTURES UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS OF THE OWNER AND ARCHITECT. INCLUDE LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT.
6. TRACK LIGHTING SHALL INCLUDE FITTINGS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION AT THE CEILING LOCATIONS PROPOSED.
7. EMERGENCY FIXTURE SYMBOLS NOTED ON THE DRAWINGS SHALL BE AS SCHEDULED BELOW, WITH THE ADDITION OF INTEGRAL 90-MINUTE BATTERY PACK OPERATION. PROVIDE CONSTANT HOT AND SWITCH LEG TO FIXTURES WITH INTEGRAL EMERGENCY...
8. LIGHTING FIXTURE EQUAL ALTERNATES DIFFERING FROM THE SPECIFIED MANUFACTURER AND MODEL ARE SUBJECT TO REVIEW AND APPROVAL BY OWNER AND ARCHITECT. FOOTCANDLE CALCULATIONS OF THE APPLICATION WILL BE REQUIRED UPON...

TYPE	MANUFACTURER	MODEL	DESCRIPTION	VOLTAGE	LOAD-VA	LAMP TYPE	APPROVED EQUALS
A1	MARK	WHSPR-2X4-90CRI-4000LM-MIN1-MVOLT-SWC-ZT	LED RECESSED 2X4, WITH SOFT WHITE ACRYLIC SHIELD, WHITE, 90CRI	277 V	34 VA	LED 3500K 4000LM	LEDALITE SILKSPACE
A2	MARK	WHSPR-2X2-90CRI-4000LM-NODIM-MVOLT-SWC	LED RECESSED 2X2, WITH SOFT WHITE ACRYLIC SHIELD, WHITE, 90CRI	277 V	38 VA	LED 3500K 4000LM	LEDALITE SILKSPACE
A3	MARK	WHSPR-1X4-90CRI-4800LM-MIN1-MVOLT-SWC-ZT	RECESSED TROFFER 1X4, WITH SOFT WHITE ACRYLIC SHIELD, WHITE, 90CRI	277 V	49 VA	LED 3500K 4800LM	LEDALITE SILKSPACE
D1	GOTHAM	EVO6-35-20-AR-MWD-LSS-MVOLT-GZ1	6IN LED OPEN DOWNLIGHT, WITH CLEAR FLANGE AND SEMI-SPECULAR FINISH	277 V	20 VA	LED 3500K 2000LM	LIGHTOLIER CALCULITE
E1	LITHONIA	ELM4L	EMERGENCY LIGHT, WALL MOUNTED, WHITE THERMOPLASTIC HOUSING, 2 LED ADJUSTABLE LAMP HEADS, WITH 90-MINUTE BATTERY BACKUP	277 V	2 VA	LED	EATON/COOPER, PHILIPS
F1	RBW	PASTILLE 1 DISC PAS-1D-D-PC20-35-277 10 DEX	LED INTERIOR WALL SCONCE, WHITE, 90CRI	277 V	8 VA	LED 3500K 430LM	
F2	RBW	CENTRO CTF-18-PC20-35-277 10 DIN	LED SURFACE MOUNTED FIXTURE - 18IN ROUND, WHITE, 90CRI	277 V	30 VA	LED 3500K 2400LM	
F3	TECH LIGHTING	KOSA 18	LED SURFACE MOUNTED FIXTURE - 18IN ROUND, WHITE, 90CRI, 0-10V DIMMING	277 V	22 VA	LED 3000K 900LM	
L1	LITHONIA	ZL1N-L48-5000LM-FST-MVOLT-35K-80CRI-WH-HC(LENGTH)	4FT LED STRIP WITH FROSTED LENS, CUSTOM LENGTH CHAIN HUNG PENDANT MOUNT AT 9'-6" FT AFF. CONFIRM PROPER CLEARANCE FROM LADDER TRAY IN FRAME ROOM.	277 V	25 VA	LED 3500K 3200LM	EATON/COOPER, PHILIPS
L2	AXIS	BEAM 2 TB2SLED-750-90-35-WW-S(14)-W-UNV-DP-1-S	14FT LED LINEAR SURFACE MOUNT, DIRECT WALLWASH, 90CRI. MOUNT 2FT SETBACK FROM WALL, FLUSH TO CEILING WITH THREADED ROD THROUGH CEILING TILE.	277 V	90 VA	LED 3500K 750LM/FT	CORONET
P1	FINELIGHT	HPX-P-ID-8-S-B-835-TG-277-SC-FC1%-FA100-C2-F E-SW	8FT LED LINEAR PENDANT FIXTURE, DIRECT/INDIRECT. VERIFY MOUNTING HEIGHT WITH ARCHITECT.	277 V	62 VA	LED 3500K 7560LM	
P2	FINELIGHT	HPX-P-ID-16-S-B-835-TG-277-SC-FC1%-FA100-C2-F E-SW	16FT LED LINEAR PENDANT FIXTURE, DIRECT/INDIRECT. VERIFY MOUNTING HEIGHT WITH ARCHITECT.	277 V	124 VA	LED 3500K 15120LM	
P3	FINELIGHT	HPX-P-ID-24-S-B-835-TG-277-SC-FC1%-FA100-C2-F E-SW	24FT LED LINEAR PENDANT FIXTURE, DIRECT/INDIRECT. VERIFY MOUNTING HEIGHT WITH ARCHITECT.	277 V	185 VA	LED 3500K 22680LM	
T1	WAC	WHK-5028W-935-WT GLARE SHIELD: 5028-HSHR-WHT W SERIES TRACK	24FT LED TRACK, 3X4 WALL WASH HEADS, BLACK FINISH, 90CRI. MOUNT TRACK 3FT SETBACK FROM WALL, SPACE HEADS 3FT ON CENTER, TOTAL OF (8) 28W HEADS. 1-AMP CURRENT LIMITER. SET AT 30 DEGREES AND ADJUST IN FIELD.	277 V	224 VA	LED 3500K	
T2	WAC	WHK-5028W-935-WT GLARE SHIELD: 5028-HSHR-WHT W SERIES TRACK	16FT LED TRACK, 3X4 WALL WASH HEADS, BLACK FINISH, 90CRI. MOUNT TRACK 3FT SETBACK FROM WALL, SPACE HEADS 3FT ON CENTER, TOTAL OF (5) 28W HEADS. 1-AMP CURRENT LIMITER. SET AT 30 DEGREES AND ADJUST IN FIELD.	277 V	140 VA	LED 3500K	
T3	WAC	PALOMA WHK-4023-835-WT W SERIES TRACK	8FT LED TRACK, 45-DEGREE BEAM, BLACK FINISH, 90CRI. SPACE HEADS 1.5FT ON CENTER, TOTAL OF (5) 22W HEADS. 1-AMP CURRENT LIMITER. AIM AND ADJUST BEAM IN FIELD AS DIRECTED BY OWNER.	277 V	110 VA	LED 3500K	
X1	LITHONIA	LQM-S-W-3-G-MVOLT-ELN	LED EXIT SIGN, SINGLE FACE, UNIVERSAL MOUNTING, WITH 90-MINUTE BATTERY BACKUP	277 V	5 VA	GREEN LED	EVENLITE
X2	LITHONIA	LQM-S-W-3-G-MVOLT-ELN	LED EXIT SIGN, DOUBLE FACE, UNIVERSAL MOUNTING, WITH 90-MINUTE BATTERY BACKUP. CHEVRONS AS SHOWN ON PLANS.	277 V	5 VA	GREEN LED	EVENLITE

LIGHTING CONTROLS SCHEDULE

NOTES:

1. ALL DEVICES SHALL BE U.L. OR SIMILARLY LISTED.
2 ALL DEVICES PROVIDED WITH MANUFACTURER LIMITED 5 YEAR WARRANTY.
3. PROVIDE LIGHTING CONTROLS WITH MANUFACTURER COMPLIANT POWER PACKS AND LOW VOLTAGE ROOM CONTROLLERS IN QUANTITY REQUIRED TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM. MANUFACTURER OR MANUFACTURERS REP TO PROVIDE DEVICE QUANTITES, LAYOUTS AND TYPICAL WIRING DETAILS DURING SHOP SUBMITTAL PROCESS. LIGHTING CONTROL COMPONENTS SHALL BE WIRING CONNECTION, NO WIRELESS ARE ACCEPTED. PROVIDE DIMMING COMPATIBLE DEVICES WHERE DIMMING CONTROLS ARE SHOWN. COORDINATE DIMMING TYPE WITH LIGHTING FIXTURES SHOWN. REFER TO...
4. INSTALL LOW VOLTAGE POWER PACKS AND ROOM CONTROLLERS ABOVE NEARBY ACCESSIBLE CEILING TILES OR IN MECHANICAL/STORAGE SPACES ADJACENT TO CONTROLLED FIXTURES. DO NOT INSTALL POWERPACKS EXPOSED IN COMMON SPACES OR IN INACCESSIBLE LOCATIONS.
5. PROVIDE FACTORY AUTHORIZED REPRESENTATIVE TO DEMONSTRATE TYPICAL INSTALLATION AND COMMISSIONING OF EQUIPMENT.
6. WHERE APPROVED EQUAL MANUFACTURER PRODUCTS SENSOR COVERAGE OR LOAD RATINGS DIFFER FROM BASIS OF DESIGN, CONTRACTOR AND MANUFACTURER ARE RESPONSIBLE FOR PROVIDING ADDITIONAL DEVICES AS NECCESARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
7. EMERGENCY LIGHTING AND BATTERY BACKUP COMPONENTS SHALL BE TESTED AND LISTED AS COMPATIBLE BY MANUFACTURER WITH NORMAL LIGHTING CONTROLS IN ALL AREAS.
8. UNLESS INDICATED OTHERWISE, LIGHTING CONTROL SCHEMES/OPERATION SHALL BE AS FOLLOWS:

CORRIDORS, RECEPTION, VESTIBULES, COMMON SPACES:	EXISTING RELAY SYSTEM WITH MANUAL ON LOW-VOLTAGE TOGGLES AND AUTOMATIC TIMED OFF OFF OPERATION.
BOARD ROOM:	SENSORS PROGRAMMED FOR VACANCY MODE, MANUAL ON/AUTOMATIC OFF OPERATION 20 MINUTE TIME DELAY. DIMMING CONTROL OF FIXTURES WITHIN DAYLIGHT ZONES SHALL BE BY ALWAYS ON DAYLIGHT SENSOR. INTEGRATED PROVISIONS FOR THREE (3) PRESET SCENES BY DRY CONTACT INTERFACE WITH AV SYSTEM. VERIFY PRESET CONTROLS WITH OWNER...
ALL OTHER SPACES	SENSORS PROGRAMMED FOR VACANCY MODE, MANUAL ON/AUTOMATIC OFF OPERATION 20 MINUTE TIME DELAY. DIMMING CONTROL OF FIXTURES WITHIN DAYLIGHT ZONES SHALL BE BY ALWAYS ON DAYLIGHT SENSOR.

DESIGNED BY: INITIALS

TYPE	DESCRIPTION	ELECTRICAL	MOUNTING	SENSOR TYPE	COVERAGE	APPROVED MANUFACTURERS
OS1	WALL SWITCH OCCUPANCY SENSOR. DEVICE FINISH MATCHING WIRING DEVICES SPEC. RATED FOR MIN 1/6 HP MOTOR. INTEGRAL AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER SETTINGS.	277V	WALL SWITCH / SINGLE GANG	PASSIVE INFRARED	1000 SQ FT / 180 DEG	WATTSTOPPER
S1a	SINGLE ZONE CONTROL LIGHT SWITCH. DIMMING LIGHTING CONTROL. LIGHTING CONTROLS NETWORK COMPATIBLE DEVICE. ROOM CONTROLLER COMPATIBLE, ENABLING MULTI-ZONE SWITCHING CONTROL AND MULTI-SOURCE DIMMING. PROVIDED WITH MANUFACTURER DECORATIVE WALLPLATE. DEVICE FINISH MATCHING WIRING DEVICES SPEC.	LOW VOLTAGE	WALL SWITCH / SINGLE GANG	N/A	N/A	WATTSTOPPER
S2a	TWO ZONE CONTROL LIGHT SWITCH. DIMMING LIGHTING CONTROL. LIGHTING CONTROLS NETWORK COMPATIBLE DEVICE. ROOM CONTROLLER COMPATIBLE, ENABLING MULTI-ZONE SWITCHING CONTROL AND MULTI-SOURCE DIMMING. PROVIDED WITH MANUFACTURER DECORATIVE WALLPLATE. DEVICE FINISH MATCHING WIRING DEVICES SPEC.	LOW VOLTAGE	WALL SWITCH / SINGLE GANG	N/A	N/A	WATTSTOPPER
D y2	CONTINUOUS DIMMING 0-10V CONTROL PHOTOCELL. LIGHTING CONTROLS NETWORK COMPATIBLE DEVICE. ROOM CONTROLLER COMPATIBLE, ENABLING MULTI-ZONE SWITCHING CONTROL AND MULTI-SOURCE DIMMING. 0-500 FC LIGHT SENSITIVITY WITH ADJUSTABLE THRESHOLD. ADJUSTABLE DIMMING TIME DELAY.	LOW VOLTAGE	CEILING	CLOSED LOOP	N/A	WATTSTOPPER
OS OS2	WALL SWITCH OCCUPANCY SENSOR. DEVICE FINISH MATCHING WIRING DEVICES SPEC. RATED FOR MIN 1/6 HP MOTOR. INTEGRAL AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER SETTINGS.	277V / 0-10V DIMMING	WALL SWITCH / SINGLE GANG	DUAL-TECH	1000 SQ FT / 180 DEG	WATTSTOPPER
OS y2	CEILING MOUNTED OCCUPANCY/VACANCY SENSOR. WHITE FINISH. AUTOMATIC SELF-ADAPTIVE COVERAGE THRESHOLD AND FALSE ON/FALSE OFF CORRECTION. 8-30 MINUTE TIMER SETTINGS. INDOOR USE.	LOW VOLTAGE	CEILING / 8'-12' MH	DUAL-TECH	2000 SQ FT / 360 DEG	WATTSTOPPER

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REGISTERED PROFESSIONAL ENGINEER 94252 OREGON ADAM R. KOBLE
EXPIRES: 6/30/2023
REVISIONS:

KCL ENGINEERING
312 NW 10th Ave
Suite 100
Portland, OR
97209

BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

ELECTRICAL SCHEDULES

E301

2/18/2022 1:01:38 PM

PANEL: 2L1S

LOCATION: MAILROOM 102 | **VOLTAGE:** 120/208 WYE | **SCCR RATING:** 10KAIC
SUPPLY FROM: 2PGS | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: RECESSED | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: TYPE 1

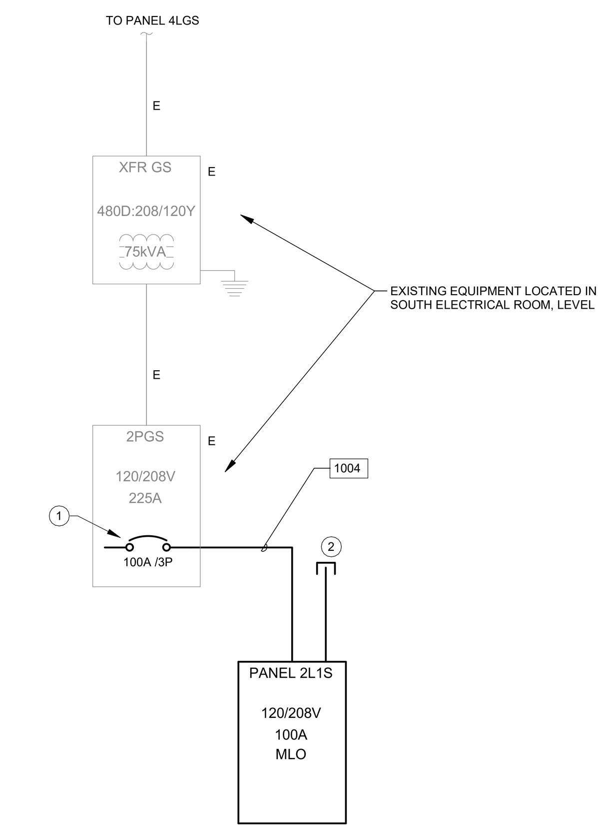
NOTES:

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A	A	B	B	C	C	CKT NO	AMP	P	CIRCUIT DESCRIPTION
RECEPTS, RECEPTION AND HALL	1	20 A	1	540	720					2	20 A	1	RECEPTS, TV'S BOARD ROOM
RECEPTS, LOCKER EQUIPMENT	1	20 A	3			360	720			4	20 A	1	RECEPTS, TV'S BOARD AND CONF
RECEPTS, RECEPTION	1	20 A	5					360	720	6	20 A	1	RECEPTS, CONF
RECEPTS, RECEPTION	1	20 A	7	360	540					8	20 A	1	RECEPTS, BOARD NORTH WALL
RECEPTS, TV'S AT RECEPTION, CONF	1	20 A	9			720	720			10	20 A	1	RECEPTS, BOARD WEST WALL
RECEPTS, MAIL ROOM	1	20 A	11					900	1080	12	20 A	1	RECEPTS, BOARD AND CONF FLOOR BOXES
COPIER	1	20 A	13	1200	360					14	20 A	1	RECEPTS, BOARD SOUTH WALL
RECEPT, AV RACK	1	20 A	15			500	824			16	20 A	2	ERV-1
RECEPT, AV RACK	1	20 A	17					500	824	18			
RECEPT, CHARGING RACK, STORAGE	1	20 A	19	360	240					20	20 A	1	VAV-1,2
SPARE	1	-- 20 A	21			0	--			22	-- --	1	SPACE
SPARE	1	-- 20 A	23					0	--	24	-- --	1	SPACE
SPARE	1	-- 20 A	25	0	--					26	-- --	1	SPACE
SPARE	1	-- 20 A	27			0	--			28	-- --	1	SPACE
SPARE	1	-- 20 A	29					0	--	30	-- --	1	SPACE
				4320 VA		3844 VA		4384 VA					
				37 A		32 A		37 A					

LEGEND:
"G" INDICATES GFCI TYPE BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
POWER	1887 VA	100.00%	1887 VA		
RECEPTACLE	10660 VA	96.90%	10330 VA	TOTAL CONN. LOAD:	12547 VA
				TOTAL EST. DEMAND:	12217 VA
				TOTAL CONN.:	35 A
				TOTAL EST. DEMAND:	34 A

NOTES:



1 PARTIAL ONE-LINE DIAGRAM

COPPER FEEDER SCHEDULE

TAG	PHASE/NEUTRAL	GROUND	CONDUIT
303	(3) #10 THWN	#10 THWN	3/4"
304	(4) #10 THWN	#10 THWN	3/4"
403	(3) #8 THWN	#10 THWN	3/4"
404	(4) #8 THWN	#10 THWN	1"
503	(3) #6 THWN	#10 THWN	1"
504	(4) #6 THWN	#10 THWN	1"
703	(3) #4 THWN	#8 THWN	1-1/4"
704	(4) #4 THWN	#8 THWN	1-1/4"
803	(3) #3 THWN	#8 THWN	1-1/4"
804	(4) #3 THWN	#8 THWN	1-1/4"
903	(3) #2 THWN	#8 THWN	1-1/4"
904	(4) #2 THWN	#8 THWN	1-1/2"
1003	(3) #1 THWN	#8 THWN	1-1/2"
1004	(4) #1 THWN	#8 THWN	1-1/2"
1303	(3) #1 THWN	#6 THWN	1-1/2"
1304	(4) #1 THWN	#6 THWN	1-1/2"
1503	(3) #1/0 THWN	#6 THWN	2"
1504	(4) #1/0 THWN	#6 THWN	2"
1753	(3) #2/0 THWN	#6 THWN	2"
1754	(4) #2/0 THWN	#6 THWN	2"
2003	(3) #3/0 THWN	#6 THWN	2"
2004	(4) #3/0 THWN	#6 THWN	2"
2303	(3) #4/0 THWN	#4 THWN	2-1/2"
2304	(4) #4/0 THWN	#4 THWN	2-1/2"
2305	(4) #4/0 THWN	#4 THWN, + #4 ISO GND	2-1/2"

RISER DIAGRAM GENERAL NOTES

A. DIAGRAM INDICATES PARTIAL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.
B. USE COPPER CONDUCTORS UNLESS OTHERWISE INDICATED.
C. MATCH NEUTRAL CONDUCTOR SIZE TO THE PHASE CONDUCTORS UNLESS OTHERWISE NOTED.
D. ALL WIRING SHALL BE IN RACEWAY AS NOTED. REFER TO SPECIFICATIONS FOR CONDUIT APPLICATION REQUIREMENTS.

RISER DIAGRAM KEYED NOTES:

1. NEW CIRCUIT BREAKER IN EXISTING PANELBOARD. BREAKER STYLE AND AIC RATING TO MATCH EXISTING.
2. PROVIDE SPARE EMPTY CONDUITS UP TO ACCESSIBLE CEILING. REFER TO SPECIFICATION REQUIREMENTS..

EXISTING PANEL: 1PGS

LOCATION: | **VOLTAGE:** 120/208 WYE | **SCCR RATING:** (VERIFY)
SUPPLY FROM: | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 250 A
ENCLOSURE: TYPE 1

NOTES:
EXISTING PANEL IS MANUFACTURER SQUARE D NQ SERIES

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A	A	B	B	C	C	CKT NO	AMP	P	CIRCUIT DESCRIPTION
EXISTING LOAD	3	-- 20 A	1	0	0					2	20 A --	1	EXISTING LOAD
			3			0	0			4	20 A --	1	EXISTING LOAD
			5					0	0	6	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	7	0	0					8	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	9			0	0			10	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	11					0	0	12	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	13	0	0					14	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	15			0	0			16	50 A --	2	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	17					0	0	18			
EXISTING LOAD	1	-- 20 A	19	0	0					20	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	21			0	0			22	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	23					0	0	24	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	25	0	0					26	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	27			0	0			28	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	29					0	0	30	20 A --	1	EXISTING LOAD
SPARE FROM DEMO	1	-- 20 A	31	0	0					32	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	33			0	0			34	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	35					0	0	36	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	37	0	0					38	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	39			0	0			40	20 A --	1	SPARE FROM DEMO
EXISTING LOAD	1	-- 20 A	41					0	0	42	30 A --	1	SPARE FROM DEMO
				0 VA		0 VA		0 VA					
				0 A		0 A		0 A					

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
				TOTAL CONN. LOAD:	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

NOTES:

EXISTING PANEL: 2PGS

LOCATION: | **VOLTAGE:** 120/208 WYE | **SCCR RATING:** (VERIFY)
SUPPLY FROM: | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 250 A
ENCLOSURE: TYPE 1 | | **MCB RATING:** 250 A

NOTES:

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A	A	B	B	C	C	CKT NO	AMP	P	CIRCUIT DESCRIPTION
EXISTING LOAD	1	-- 20 A	1	0	0					2	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	3			0	0			4	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	5					0	0	6	20 A --	1	EXISTING LOAD
EXISTING LOAD	3	-- 20 A	7	0	0					8	15 A --	2	EXISTING LOAD
			9			0	0			10			
			11					0	0	12	15 A --	2	EXISTING LOAD
EXISTING LOAD	3	-- 20 A	13	0	0					14			
			15			0	0			16	30 A --	1	SPARE FROM DEMO
			17					0	4320	18	100 A N	3	PANEL 2L1S
EXISTING LOAD	1	-- 20 A	19	0	3844					20			
EXISTING LOAD	1	-- 20 A	21			0	4384			22			
EXISTING LOAD	1	-- 20 A	23					0	0	24	20 A --	2	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	25	0	0					26			
SPARE FROM DEMO	1	-- 20 A	27			0	0			28	30 A --	2	SPARE FROM DEMO
EXISTING LOAD	3	-- 20 A	29					0	0	30			
			31	0	0					32	20 A --	1	EXISTING LOAD
			33			0	0			34	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	35					0	0	36	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	37	0	0					38	20 A --	3	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	39			0	0			40			
EXISTING LOAD	1	-- 20 A	41					0	0	42			
				3844 VA		4384 VA		4320 VA					
				32 A		37 A		37 A					

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
POWER	1887 VA	100.00%	1887 VA		
RECEPTACLE	10660 VA	96.90%	10330 VA	TOTAL CONN. LOAD:	12547 VA
				TOTAL EST. DEMAND:	12217 VA
				TOTAL CONN.:	35 A
				TOTAL EST. DEMAND:	34 A

NOTES:

EXISTING PANEL: 4LGS

LOCATION: | **VOLTAGE:** 480/277 WYE | **SCCR RATING:** (VERIFY)
SUPPLY FROM: | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: SURFACE | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: TYPE 1

NOTES:

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A	A	B	B	C	C	CKT NO	AMP	P	CIRCUIT DESCRIPTION
EXISTING LOAD	1	-- 20 A	1	0	0					2	125 A --	3	EXISTING FEED LUGS
EXISTING LOAD	1	-- 20 A	3			0	0			4			
EXISTING LOAD	1	-- 20 A	5					0	0	6			
SPACE	1	-- --	7	--	0					8	20 A --	1	EXISTING LOAD
SPACE	1	-- --	9			--	0			10	20 A --	1	EXISTING LOAD
SPACE	1	-- --	11					--	--	12	-- --	1	SPACE
SPACE	1	-- --	13	--	0					14	20 A --	1	EXISTING LOAD
SPACE	1	-- --	15			--	0			16	20 A --	1	EXISTING LOAD
SPACE	1	-- --	17					--	0	18	20 A --	1	EXISTING LOAD
EXISTING LOAD	3	-- 70 A	19	0	2333					20	20 A N	3	EDH-1
			21			0	2333			22			
			23					0	2333	24			
SPACE	1	-- --	25	--	--					26	-- --	1	SPACE
SPACE	1	-- --	27			--	--			28	-- --	1	SPACE
SPACE	1	-- --	29					--	--	30	-- --	1	SPACE
				2333 VA		2333 VA		2333 VA					
				8 A		8 A		8 A					

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
POWER	7000 VA	100.00%	7000 VA		
				TOTAL CONN. LOAD:	7000 VA
				TOTAL EST. DEMAND:	7000 VA
				TOTAL CONN.:	8 A
				TOTAL EST. DEMAND:	8 A

NOTES:

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REGISTERED PROFESSIONAL ENGINEER 94252 OREGON ADAM R. KOBL
EXPIRES: 6/30/2023
REVISIONS:

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312 NW 10th Ave
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97209

BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

ELECTRICAL ONE-LINE DIAGRAM AND PANEL SCHEDULE

E401

2/18/2022 1:01:40 PM

EXISTING PANEL: 2P2S

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
VOLTAGE: 120/208 WYE
PHASES: 3
WIRES: 4
SCCR RATING: (VERIFY)
MAINS TYPE: MCB
MAINS RATING: 250 A
MCB RATING: 250 A

NOTES:
EXISTING PANEL IS MANUFACTURER SQUARE D NQ SERIES

CIRCUIT DESCRIPTION	P		AMP	CKT NO	A		B		C		CKT NO	AMP		P	CIRCUIT DESCRIPTION
EXISTING LOAD	1	--	20 A	1	0	0					2	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	3			0	0			4	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	5					0	0	6	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	7	0	0					8	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	9			0	0			10	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	11					0	0	12	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	13	0	0					14	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	15			0	0			16	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	17					0	0	18	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	19	0	0					20	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	21			0	0			22	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	23					0	0	24	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	25	0	0					26	125 A	--	2	EXISTING LOAD CENTER (TIED)
EXISTING LOAD	1	--	20 A	27			0	0			28				
EXISTING LOAD	1	--	20 A	29					0	0	30	125 A	--	2	EXISTING LOAD CENTER (TIED)
EXISTING LOAD	1	--	20 A	31	0	0					32				
EXISTING LOAD	1	--	20 A	33			0	0			34	125 A	--	2	EXISTING LOAD CENTER (TIED)
EXISTING LOAD	1	--	20 A	35					0	0	36				
EXISTING LOAD	1	--	20 A	37	0	0					38	20 A	--	3	EXISTING LOAD
EXISTING LOAD	1	--	20 A	39			0	0			40				
EXISTING LOAD	1	--	20 A	41					0	0	42				
					0 VA		360 VA		2280 VA						
					0 A		3 A		19 A						

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
RECEPTACLE	2640 VA	100.00%	2640 VA		
				TOTAL CONN. LOAD:	2640 VA
				TOTAL EST. DEMAND:	2640 VA
				TOTAL CONN.:	7 A
				TOTAL EST. DEMAND:	7 A

NOTES:

EXISTING PANEL: 2P2N

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
VOLTAGE: 120/208 WYE
PHASES: 3
WIRES: 4
SCCR RATING: (VERIFY)
MAINS TYPE: MCB
MAINS RATING: 250 A
MCB RATING: 250 A

NOTES:
EXISTING PANEL IS MANUFACTURER SQUARE D NQ SERIES

CIRCUIT DESCRIPTION	P		AMP	CKT NO	A		B		C		CKT NO	AMP		P	CIRCUIT DESCRIPTION
EXISTING LOAD	1	--	20 A	1	0	0					2	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	3			0	0			4	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	5					0	0	6	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	7	0	0					8	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	9			0	0			10	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	11					0	0	12	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	13	0	0					14	20 A	--	1	EXISTING LOAD
COPIER	1	E	20 A	15			1200	0			16	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	17					0	2160	18	20 A	E	1	ACCESS CONTROL PANELS
EXISTING LOAD	1	--	20 A	19	0	0					20	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	21			0	0			22	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	23					0	360	24	20 A		1	RECEPTS, CONF ROOMS
EXISTING LOAD	1	--	20 A	25	0	0					26	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	27			0	0			28	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	29					0	1080	30	20 A		1	RECEPTS, CONF ROOMS
EXISTING LOAD	1	--	20 A	31	0	0					32	20 A	--	1	SPARE
EXISTING LOAD	1	--	20 A	33			0	0			34	20 A	--	1	SPARE
EXISTING LOAD	1	--	20 A	35					0	0	36	20 A	--	1	SPARE
EXISTING LOAD	1	--	20 A	37	0	0					38	20 A	--	3	EXISTING LOAD
EXISTING LOAD	1	--	20 A	39			0	0			40				
U/C FRIDGE, QUIET ROOM	1	E	20 A	41					300	0	42				
					0 VA		1200 VA		3900 VA						
					0 A		12 A		34 A						

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
POWER	2160 VA	100.00%	2160 VA		
RECEPTACLE	2940 VA	100.00%	2940 VA	TOTAL CONN. LOAD:	5100 VA
				TOTAL EST. DEMAND:	5100 VA
				TOTAL CONN.:	14 A
				TOTAL EST. DEMAND:	14 A

NOTES:

EXISTING PANEL: 2P2S-S2

LOCATION:
SUPPLY FROM: 2P2S
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
VOLTAGE: 120/208 WYE
PHASES: 3
WIRES: 4
SCCR RATING: (VERIFY)
MAINS TYPE: MLO
MAINS RATING: 250 A

NOTES:
EXISTING PANEL IS MANUFACTURER SQUARE D NQ SERIES

CIRCUIT DESCRIPTION	P		AMP	CKT NO	A		B		C		CKT NO	AMP		P	CIRCUIT DESCRIPTION
EXISTING LOAD	1	--	20 A	43	0	0					44	20 A	--	1	EXISTING LOAD
EXISTING LOAD	2	--	20 A	45			0	0			46	20 A	--	1	EXISTING LOAD
				47					0	0	48	20 A	--	1	SPARE
EXISTING LOAD	2	--	20 A	49	0	0					50	20 A	--	1	SPARE
				51			0	0			52	20 A	--	1	EXISTING LOAD
EXISTING LOAD	2	--	20 A	53					0	1200	54	20 A	E	1	COPIER
				55	0	0					56	20 A	--	2	EXISTING LOAD
EXISTING LOAD	1	--	20 A	57			0	0			58				
EXISTING LOAD	1	--	20 A	59					0	0	60	20 A	--	1	EXISTING LOAD
SPARE	2	--	20 A	61	0	0					62	20 A	--	1	SPARE
				63			0	0			64	20 A	--	2	EXISTING LOAD
SPARE	1	--	20 A	65					0	0	66				
EXISTING LOAD	1	--	20 A	67	0	0					68	20 A	--	1	EXISTING LOAD
SPARE	3	--	20 A	69			0	0			70	20 A	--	3	EXISTING LOAD
				71					0	0	72				
				73	0	0					74				
SPARE	1	--	20 A	75			0	0			76	20 A	--	1	EXISTING LOAD
SPARE	1	--	20 A	77					0	0	78	20 A	--	1	EXISTING LOAD
SPARE	1	--	20 A	79	0	0					80	20 A	--	1	EXISTING LOAD
SPARE	2	--	20 A	81			0	360			82	20 A	E	1	RECEPTS, CONF ROOMS
				83					0	1080	84	20 A	E	1	RECEPTS, OFFICES
					0 VA		360 VA		2280 VA						
					0 A		3 A		19 A						

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
RECEPTACLE	2640 VA	100.00%	2640 VA		
				TOTAL CONN. LOAD:	2640 VA
				TOTAL EST. DEMAND:	2640 VA
				TOTAL CONN.:	7 A
				TOTAL EST. DEMAND:	7 A

NOTES:

EXISTING PANEL: 2P2N-S2

LOCATION:
SUPPLY FROM: 2P2N
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
VOLTAGE: 120/208 WYE
PHASES: 3
WIRES: 4
SCCR RATING: (VERIFY)
MAINS TYPE: MLO
MAINS RATING: 250 A

NOTES:
EXISTING PANEL IS MANUFACTURER SQUARE D NQ SERIES

CIRCUIT DESCRIPTION	P		AMP	CKT NO	A		B		C		CKT NO	AMP		P	CIRCUIT DESCRIPTION
EXISTING LOAD	2	--	20 A	43	0	0					44	20 A	--	1	EXISTING LOAD
				45			0	0			46	20 A	--	3	EXISTING LOAD
EXISTING LOAD	2	--	20 A	47					0	0	48				
				49	0	0					50				
SPARE	1	--	20 A	51			0	0			52	20 A	--	2	EXISTING LOAD
EXISTING LOAD	2	--	20 A	53					0	0	54				
				55	0	0					56	20 A	--	2	EXISTING LOAD
EXISTING LOAD	1	--	20 A	57			0	0			58				
EXISTING LOAD	2	--	20 A	59					0	0	60	20 A	--	1	SPARE
				61	0	0					62	20 A	--	1	SPARE
EXISTING LOAD	2	--	20 A	63			0	0			64	20 A	--	1	SPARE
				65					0	0	66	20 A	--	1	SPARE
SPARE	1	--	20 A	67	0	0					68	20 A	--	1	EXISTING LOAD
EXISTING LOAD	3	--	20 A	69			0	0			70	20 A	--	1	SPARE
				71					0	0	72	20 A	--	1	EXISTING LOAD
				73	0	0					74	20 A	--	1	SPARE FROM DEMO
EXISTING LOAD	1	--	20 A	75			0	0			76	20 A	--	1	SPARE FROM DEMO
EXISTING LOAD	1	--	20 A	77					0	0	78	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	79	0	0					80	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	81			0	0			82	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	83					0	0	84	20 A	--	1	EXISTING LOAD
					0 VA		0 VA		0 VA						
					0 A		0 A		0 A						

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
				TOTAL CONN. LOAD:	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

NOTES:

EXISTING PANEL: 2P2S-S3

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
VOLTAGE: 120/208 WYE
PHASES: 3
WIRES: 4
SCCR RATING: (VERIFY)
MAINS TYPE: MLO
MAINS RATING: 250 A

NOTES:
EXISTING PANEL IS MANUFACTURER SQUARE D NQ SERIES

CIRCUIT DESCRIPTION	P		AMP	CKT NO	A		B		C		CKT NO	AMP		P	CIRCUIT DESCRIPTION
EXISTING LOAD	1	--	20 A	1	0	0					2	20 A	--	1	EXISTING LOAD
EXISTING LOAD	2	--	20 A	3			0	0			4	20 A	--	1	EXISTING LOAD
				5					0	0	6	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	7	0	0					8	20 A	--	1	EXISTING LOAD
COPIER	1	E	20 A	9			1200	0			10	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	11					0	0	12	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	13	0	0					14	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	15			0	0			16	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	17					0	0	18	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	19	0	0					20	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	21			0	0			22	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	23					0	0	24	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	25	0	0					26	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	27			0	0			28	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	29					0	0	30	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	31	0	0					32	20 A	--	2	EXISTING LOAD
EXISTING LOAD	1	--	20 A	33			0	0			34				
EXISTING LOAD	1	--	20 A	35					0	--	36	--	--	1	SPACE
EXISTING LOAD	1	--	20 A	37	0	0					38	20 A	--	2	EXISTING LOAD
EXISTING LOAD	1	--	20 A	39			0	0			40				
EXISTING LOAD	1	--	20 A	41					0	--	42	--	--	1	SPACE
					0 VA		1200 VA		0 VA						
					0 A		10 A		0 A						

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
RECEPTACLE	1200 VA	100.00%	1200 VA		
				TOTAL CONN. LOAD:	1200 VA
				TOTAL EST. DEMAND:	1200 VA
				TOTAL CONN.:	3 A
				TOTAL EST. DEMAND:	3 A

NOTES:

EXISTING PANEL: 2P2N-S3

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
VOLTAGE: 120/208 WYE
PHASES: 3
WIRES: 4
SCCR RATING: (VERIFY)
MAINS TYPE: MLO
MAINS RATING: 250 A

NOTES:
EXISTING PANEL IS MANUFACTURER SQUARE D NQ SERIES

CIRCUIT DESCRIPTION	P		AMP	CKT NO	A		B		C		CKT NO	AMP		P	CIRCUIT DESCRIPTION
EXISTING LOAD	1	--	20 A	1	0	720					2	20 A		1	RECEPTS, OFFICE
EXISTING LOAD	3	--	20 A	3			0	0			4	20 A	--	3	EXISTING LOAD
				5					0	0	6				
				7	0	0					8				
COPIER	1	E	20 A	9			1200	0			10	20 A	--	1	EXISTING LOAD
SPARE	1	--	20 A	11					0	0	12	20 A	--	1	EXISTING LOAD
SPARE	1	--	20 A	13	0	0					14	20 A	--	1	EXISTING LOAD
SPARE	1	--	20 A	15			0	0			16	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	17					0	0	18	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	19	0	0					20	20 A	--	1	EXISTING LOAD
EXISTING LOAD	1	--	20 A	21			0	0			22	20 A	--	1	EXISTING LOAD
SPARE	1	--	20 A	23					0	0	24	20 A	--	1	SPARE
EXISTING LOAD	1	--	20 A	25	0	0					26	20 A	--	1	SPARE
SPARE	1	--	20 A	27			0	0			28	20 A	--	1	SPARE
SPARE	1	--	20 A	29					0	500	30	20 A	E	1	FRAME RM RACK
SPACE	1	--	--	31	--	500					32	20 A	N	1	FRAME RM RACK
SPACE	1	--	--	33			--	500			34	20 A	N	1	FRAME RM RACK
SPACE	1	--	--	35					--	--	36	--	--	1	SPACE
SPACE	1	--	--	37	--	--					38	--	--	1	SPACE
SPACE	1	--	--	39			--	--			40	--	--	1	SPACE
SPACE	1	--	--	41					--	--	42	--	--	1	SPACE
					1220 VA		1700 VA		500 VA						
					11 A		15 A		4 A						

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
RECEPTACLE	3420 VA	100.00%	3420 VA		
				TOTAL CONN. LOAD:	3420 VA
				TOTAL EST. DEMAND:	3420 VA
				TOTAL CONN.:	9 A
				TOTAL EST. DEMAND:	9 A

NOTES:

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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

PANEL SCHEDULES
E402

2/18/2022 1:01:42 PM

EXISTING PANEL: 2P3S

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE
PHASES: 3
WIRES: 4

SCCR RATING: (VERIFY)
MAINS TYPE: MCB
MAINS RATING: 250 A
MCB RATING: 250 A

NOTES:
EXISTING PANEL IS MANUFACTURER SQUARE D NQ SERIES

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A		B		C		CKT NO	AMP	P	CIRCUIT DESCRIPTION
EXISTING LOAD	1	-- 20 A	1	0	0					2	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	3			0	0			4	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	5					0	0	6	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	7	0	0					8	30 A --	2	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	9			0	0			10			
EXISTING LOAD	1	-- 20 A	11					0	0	12	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	13	0	0					14	20 A --	1	SPARE FROM DEMO
EXISTING LOAD	1	-- 20 A	15			0	0			16	20 A --	1	SPARE FROM DEMO
EXISTING LOAD	1	-- 20 A	17					0	0	18	20 A --	1	SPARE FROM DEMO
EXISTING LOAD	1	-- 20 A	19	0	0					20	20 A --	1	SPARE FROM DEMO
EXISTING LOAD	1	-- 20 A	21			0	0			22	20 A --	1	SPARE FROM DEMO
EXISTING LOAD	1	-- 20 A	23					0	900	24	20 A E	1	RECEPTS, COLLAB
EXISTING LOAD	1	-- 20 A	25	0	720					26	20 A E	1	RECEPTS, CONF ROOM
EXISTING LOAD	1	-- 20 A	27			0	720			28	20 A E	1	RECEPTS, CONF ROOM
EXISTING LOAD	1	-- 20 A	29					0	0	30	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	31	0	0					32	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	33			0	1200			34	20 A N	1	COPIER
EXISTING LOAD	1	-- 20 A	35					0	--	36	-- --	1	SPACE
EXISTING LOAD	1	-- 20 A	37	0	0					38			
EXISTING LOAD	1	-- 20 A	39			0	0			40	20 A --	3	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	41					0	0	42			
				720 VA		2640 VA		2100 VA					
				6 A		24 A		19 A					

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
RECEPTACLE	5460 VA	100.00%	5460 VA		
				TOTAL CONN. LOAD:	5460 VA
				TOTAL EST. DEMAND:	5460 VA
				TOTAL CONN.:	15 A
				TOTAL EST. DEMAND:	15 A

NOTES:

EXISTING PANEL: 2P3N

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE
PHASES: 3
WIRES: 4

SCCR RATING: (VERIFY)
MAINS TYPE: MCB
MAINS RATING: 250 A
MCB RATING: 250 A

NOTES:
EXISTING PANEL IS MANUFACTURER SQUARE D NQ SERIES

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A		B		C		CKT NO	AMP	P	CIRCUIT DESCRIPTION
EXISTING LOAD	1	-- 20 A	1	0	0					2	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	3			0	0			4	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	5					0	0	6	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	7	0	0					8	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	9			0	0			10	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	11					0	0	12	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	13	0	500					14	20 A E	1	FRAME RM RACK
EXISTING LOAD	1	-- 20 A	15			0	900			16	20 A E	1	RECEPTS, COLLAB
EXISTING LOAD	1	-- 20 A	17					0	1200	18	20 A E	1	COPIER
EXISTING LOAD	1	-- 20 A	19	0	1200					20	20 A E	1	COPIER
EXISTING LOAD	1	-- 20 A	21			0	500			22	20 A E	1	FRAME RM RACK
EXISTING LOAD	1	-- 20 A	23					0	0	24	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	25	0	500					26	20 A E	1	FRAME RM RACK
EXISTING LOAD	1	-- 20 A	27			0	1200			28	20 A E	1	COPIER
EXISTING LOAD	1	-- 20 A	29					0	0	30	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	31	0	0					32	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	33			0	0			34	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	35					0	0	36	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	37	0	0					38			
EXISTING LOAD	1	-- 20 A	39			0	0			40	20 A --	3	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	41					0	0	42			
				2200 VA		2600 VA		1740 VA					
				19 A		22 A		15 A					

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
RECEPTACLE	6540 VA	100.00%	6540 VA		
				TOTAL CONN. LOAD:	6540 VA
				TOTAL EST. DEMAND:	6540 VA
				TOTAL CONN.:	18 A
				TOTAL EST. DEMAND:	18 A

NOTES:

EXISTING PANEL: 2P3S-S2

LOCATION:
SUPPLY FROM: 2P3S
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE
PHASES: 3
WIRES: 4

SCCR RATING: (VERIFY)
MAINS TYPE: MLO
MAINS RATING: 250 A

NOTES:
EXISTING PANEL IS MANUFACTURER SQUARE D NQ SERIES

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A		B		C		CKT NO	AMP	P	CIRCUIT DESCRIPTION
EXISTING LOAD	1	-- 20 A	43	0	0					44	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	45			0	0			46	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	47					0	0	48	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	49	0	0					50	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	51			0	0			52	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	53					0	0	54	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	55	0	0					56	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	57			0	0			58	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	59					0	0	60	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	61	0	0					62	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	63			0	0			64	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	65					0	0	66	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	67	0	0					68	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	69			0	0			70	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	71					0	0	72	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	73	0	0					74	20 A --	2	EXISTING LOAD
RECEPTS, OFFICE	1	E 20 A	75			720	0			76			
COPIER	1	E 20 A	77					1200	0	78	20 A --	1	EXISTING LOAD
SPARE FROM DEMO	1	-- 20 A	79	0	0					80	20 A --	1	SPARE
SPARE FROM DEMO	1	-- 20 A	81			0	0			82	20 A --	2	EXISTING LOAD
SPARE FROM DEMO	1	-- 20 A	83					0	0	84			
				0 VA		720 VA		1200 VA					
				0 A		7 A		11 A					

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
RECEPTACLE	1920 VA	100.00%	1920 VA		
				TOTAL CONN. LOAD:	1920 VA
				TOTAL EST. DEMAND:	1920 VA
				TOTAL CONN.:	5 A
				TOTAL EST. DEMAND:	5 A

NOTES:

EXISTING PANEL: 2P3N-S2

LOCATION:
SUPPLY FROM: 2P3N
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE
PHASES: 3
WIRES: 4

SCCR RATING: (VERIFY)
MAINS TYPE: MLO
MAINS RATING: 250 A

NOTES:
EXISTING PANEL IS MANUFACTURER SQUARE D NQ SERIES

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A		B		C		CKT NO	AMP	P	CIRCUIT DESCRIPTION
SPARE	1	-- 20 A	43	0	0					44			
EXISTING LOAD	1	-- 20 A	45			0	0			46	20 A --	3	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	47					0	0	48			
EXISTING LOAD	1	-- 20 A	49	0	0					50	20 A --	1	EXISTING LOAD
SPARE	1	-- 20 A	51			0	0			52			
EXISTING LOAD	1	-- 20 A	53					0	0	54	20 A --	3	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	55	0	0					56			
EXISTING LOAD	1	-- 20 A	57			0	0			58	20 A --	1	EXISTING LOAD
SPARE	1	-- 20 A	59					0	0	60	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	61	0	0					62			
EXISTING LOAD	1	-- 20 A	63			0	0			64	20 A --	3	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	65					0	0	66			
EXISTING LOAD	1	-- 20 A	67	0	0					68	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	69			0	0			70	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	71					0	0	72	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	73	0	0					74	20 A --	2	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	75			0	0			76			
FRAME RM RECEPTS	1	E 20 A	77					540	0	78	20 A --	1	SPARE
EXISTING LOAD	1	-- 20 A	79	0	0					80	20 A --	1	EXISTING LOAD
SPARE	1	-- 20 A	81			0	0			82	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	83					0	0	84	20 A --	1	EXISTING LOAD
				0 VA		0 VA		540 VA					
				0 A		0 A		5 A					

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
RECEPTACLE	540 VA	100.00%	540 VA		
				TOTAL CONN. LOAD:	540 VA
				TOTAL EST. DEMAND:	540 VA
				TOTAL CONN.:	1 A
				TOTAL EST. DEMAND:	1 A

NOTES:

EXISTING PANEL: 2P3S-S3

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE
PHASES: 3
WIRES: 4

SCCR RATING: (VERIFY)
MAINS TYPE: MLO
MAINS RATING: 250 A

NOTES:
EXISTING PANEL IS MANUFACTURER SQUARE D NQ SERIES

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A		B		C		CKT NO	AMP	P	CIRCUIT DESCRIPTION
EXISTING LOAD	1	-- 20 A	1	0	0					2	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	3			0	0			4	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	5					0	0	6	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	7	0	0					8	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	9			0	0			10	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	11					0	0	12	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	13	0	0					14	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	15			0	0			16	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	17					0	0	18	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	19	0	0					20	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	21			0	90			22	20 A E	1	EF-1
SPARE	1	-- 20 A	23					0	0	24	20 A --	1	SPARE FROM DEMO
EXISTING LOAD	1	-- 20 A	25	0	0					26	20 A --	1	SPARE FROM DEMO
EXISTING LOAD	1	-- 20 A	27			0	0			28	20 A --	1	SPARE FROM DEMO
EXISTING LOAD	1	-- 20 A	29					0	0	30	20 A --	1	EXISTING LOAD
CU-1/SS-1	2	N 30 A	31	1269	0					32	20 A --	1	EXISTING LOAD
			33			1269	0			34	20 A --	1	EXISTING LOAD
CU-2/SS-2	2	N 30 A	35					1269	--	36	-- --	1	SPACE
			37	1269	0					38	20 A --	1	EXISTING LOAD
SPARE	2	-- 60 A	39			0	0			40	20 A --	1	EXISTING LOAD
			41					0	--	42	-- --	1	SPACE
				2538 VA		1359 VA		1269 VA					
				21 A		11 A		11 A					

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
POWER	5165 VA	100.00%	5165 VA		
				TOTAL CONN. LOAD:	5165 VA
				TOTAL EST. DEMAND:	5165 VA
				TOTAL CONN.:	14 A
				TOTAL EST. DEMAND:	14 A

NOTES:

EXISTING PANEL: 2P3N-S3

LOCATION:
SUPPLY FROM:
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 120/208 WYE
PHASES: 3
WIRES: 4

SCCR RATING: (VERIFY)
MAINS TYPE: MLO
MAINS RATING: 250 A

NOTES:
EXISTING PANEL IS MANUFACTURER SQUARE D NQ SERIES

CIRCUIT DESCRIPTION	P	AMP	CKT NO	A		B		C		CKT NO	AMP	P	CIRCUIT DESCRIPTION
EXISTING LOAD	1	-- 20 A	1	0	0					2	20 A --	1	EXISTING LOAD
EXISTING LOAD	3	-- 20 A	3			0	0			4	20 A --	1	EXISTING LOAD
			5					0	0	6	20 A --	1	EXISTING LOAD
			7	0	0					8	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	9			0	0			10	20 A --	1	EXISTING LOAD
EXISTING LOAD	3	-- 20 A	11					0	0	12	20 A --	3	EXISTING LOAD
			13	0	0					14			
			15			0	0			16			
EXISTING LOAD	1	-- 20 A	17					0	0	18	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	19	0	0					20	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	21			0	0			22	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	23					0	0	24	20 A --	1	EXISTING LOAD
SPARE	1	-- 20 A	25	0	0					26	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	27			0	0			28	20 A --	1	EXISTING LOAD
EXISTING LOAD	1	-- 20 A	29					0	0	30	20 A --	1	EXISTING LOAD
EXISTING LOAD	3	-- 20 A	31	0	--					32	-- --	1	SPACE
			33			0	--			34	-- --	1	SPACE
			35					0	--	36	-- --	1	SPACE
EXISTING LOAD	2	-- 20 A	37	0	--					38	-- --	1	SPACE
			39			0	0			40	20 A --	2	EXISTING LOAD
SPACE	1	-- --	41					--	0	42			
				0 VA		0 VA		0 VA					
				0 A		0 A		0 A					

LEGEND:
"E" INDICATES NEW LOAD AT EXISTING BREAKER
"N" INDICATES PROVIDE NEW CIRCUIT BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS	
				TOTAL CONN. LOAD:	0 VA
				TOTAL EST. DEMAND:	0 VA
				TOTAL CONN.:	0 A
				TOTAL EST. DEMAND:	0 A

NOTES:

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REGISTERED PROFESSIONAL ENGINEER
OREGON
ADAM R. KOBLE

EXPIRES: 6/30/2023
REVISIONS:

KCL ENGINEERING
312 NW 10th Ave
Suite 100
Portland, OR
97209

BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

PANEL SCHEDULES

E403

2/18/2022 1:01:45 PM

DIVISION 27 - COMMUNICATIONS

COMMUNICATIONS DEMOLITION NOTES

A. ALL EXISTING DEVICES AND DEVICE LOCATIONS WERE MADE BY CASUAL FIELD OBSERVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING SYSTEM COMPONENTS AND DEVICE LOCATIONS.

B. PROVIDE LABOR AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

C. SYSTEMS SCHEDULED TO BE REMOVED SHALL BE DONE SO IN THEIR ENTIRETY. ABANDONED CABLING SHALL NOT BE ACCEPTED. REMOVE ALL ASSOCIATED FIELD DEVICES AND HEAD END EQUIPMENT.

D. REMOVED EQUIPMENT AND SYSTEMS SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. MATERIALS NOT SALVAGED BY THE OWNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR PROPER DISPOSAL.

E. REMOVE AND REINSTALL CEILING TILE REQUIRED FOR THE WORK BEING DONE UNDER THIS CONTRACT. DAMAGED CEILING TILE SHALL BE REPLACED TO MATCH EXISTING.

F. DO NOT CUT EXISTING TELECOMMUNICATIONS WIRING SERVING OTHER BUILDING TENANTS WITH SERVICES. SOME EXISTING INFRASTRUCTURE SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR WHO CUTS IN-SERVICE CABLES SHALL BE RESPONSIBLE FOR DOWNTIME AND THE COSTS TO REPAIR.

GROUNDING & BONDING NOTES

A. INSTALLATION OF THE COMMUNICATIONS GROUNDING AND BONDING SYSTEM SHALL BE COMPLIANT WITH TIA-607-D. REFER TO SPECIFICATION 27 05 26 FOR ADDITIONAL INFORMATION.

B. ENSURE THE MAIN BUILDING AC GROUND IS THOROUGHLY EXAMINED PRIOR TO INSTALLING THE TELECOMMUNICATIONS BONDING CONDUCTOR (TBC) TO THE PRIMARY BONDING BUSBAR (PBB).

C. THE TBC SHALL NOT EXCEED 30 FEET AND SHALL BE EQUAL IN SIZE (GAUGE) TO THE LARGEST TELECOMMUNICATIONS BONDING BACKBONE (TBB) CONDUCTOR. CONTRACTOR IS ENCOURAGED TO INSTALL THE PRIMARY BONDING BACKBONE (PBB) INSIDE THE MAIN ELECTRICAL ROOM TO KEEP TBC DISTANCES SHORT.

D. APPLY ANTI-CORROSION/OXIDATION COMPOUND TO THE LUG AND LUG SURFACE OF EACH TELECOMMUNICATIONS BUSBAR.

CABLING NOTES

A. CATEGORY CABLING SERVING DATA AND VOICE APPLICATIONS SHALL BE TESTED TO ENSURE ALL ELECTRICAL CHARACTERISTICS ARE COMPLIANT WITH THE SPECIFIED CLASSIFICATION (6 AND/OR 6A). UTILIZE FLUKE DSX EQUIPMENT OR EQUIVALENT AND PROVIDE ELECTRONIC RESULTS DURING CLOSEOUT PROCEDURES. ANY INSTANCE OF CABLING FAILING THE PERFORMANCE TEST SHALL BE RECTIFIED BY THE CONTRACTOR THROUGH RE-TERMINATION OR RUNNING NEW CABLING AT NO COST TO THE OWNER.

B. PROVIDE A MINIMUM OF TWO (2) CATEGORY 6 CABLES FOR ALL DATA WORK AREA OUTLETS. PROVIDE TWO (2) CATEGORY 6A CABLES FOR ALL WIRELESS ACCESS POINTS.

C. APPROVED MANUFACTURERS ARE: COMMSCOPE UNIPRISE, SYSTIMAX, LEVITON AND PANDUIT.

D. PROVIDE A CERTIFIED INSTALLATION BY THE MANUFACTURER. ENSURE THE WARRANTY IS PROVIDED AS THE SPECIFICATIONS REQUIRE.

E. WILD RETURN AIR IS EXPECTED IN THE PLENUM SPACES OF THIS PROJECT. THEREFORE, PROVIDE PLENUM RATED CABLING FOR ALL FLOWN INFRASTRUCTURE IN THE ABOVE ACCESSIBLE CEILING SPACES.

TELECOMMUNICATIONS DISTRIBUTION NOTES

A. CABLING CONTRACTOR SHALL NOTE THAT CEILING AND CEILING GRID SYSTEM WILL REMAIN IN PLACE FOR THIS PROJECT. BOTH DEMOLITION AND NEW INSTALLATION WILL REQUIRE THE CONTRACTOR TO PERFORM SELECTIVE CEILING TILE REMOVAL TO PERFORM CABLING INSTALLATION. ANY TILES DAMAGED IN THIS PROCESS SHALL BE REPLACED AT THIS CONTRACTOR'S EXPENSE.

B. PROVIDE PENETRATIONS AND PATHWAYS AS REQUIRED TO ROUTE ALL CABLING INFRASTRUCTURE ILLUSTRATED IN THE DRAWINGS. TREAT EACH NEW PENETRATION AS A 1-HOUR FIRE RATED WALL UNLESS OTHERWISE NOTED. PROVIDE REQUIRED FIRE STOPPING TO MAINTAIN THIS RATING.

C. REAM CONDUIT TO REMOVE BURRS AND ROUGH EDGES. PROVIDE A PROTECTIVE BUSHING AT THE END OF ANY CONDUIT STUB TO PROTECT CABLING INFRASTRUCTURE.

D. NO EXISTING CABLE TRAY EXISTS IN THE BUILDING. PROVIDE CABLE SUPPORT FOR ROUTING ALL NEW INFRASTRUCTURE. INSIDE OF ABOVE ACCESSIBLE CEILING SPACES, CABLING SHALL BE FLOWN FREE-AIR UTILIZING J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES TO SUPPORT CABLING. CABLE SHALL NOT BE ALLOWED TO REST ON TOP OF CEILING TILES OR TO UTILIZE GRID SUPPORT SYSTEM.

E. ALL OPEN CEILING AREAS SHALL HAVE CABLING CONCEALED IN CONDUIT. EXPOSED CABLING SHALL NOT BE ACCEPTED.

EQUIPMENT ROOM FITTINGS NOTES

A. THE MAIN DISTRIBUTION ROOM ON GRADE LEVEL SHALL BE PROVIDED WITH THREE (3) CHATSWORTH 55053-703 (OR EQUIVALENT) TWO-POST RELAY RACKS. BETWEEN EACH RACK SHALL BE A 6" WIDE DOUBLE-SIDED VERTICAL CABLE MANAGER.

B. THE INTERMEDIATE DISTRIBUTION ROOM ON SECOND AND THIRD LEVEL SHALL BE PROVIDED WITH TWO (2) CHATSWORTH 55053-703 (OR EQUIVALENT) TWO-POST RELAY RACKS. BETWEEN EACH RACK SHALL BE A 6" WIDE DOUBLE-SIDED VERTICAL CABLE MANAGER.

C. PROVIDE CABLE RUNWAY IN THE MAIN DISTRIBUTION ROOM AND ALL INTERMEDIATE DISTRIBUTION SPACES. PROVIDE ACCESSORIES INCLUDING BUT NOT LIMITED TO: WATERFALL RADIUS DROP, OFFSETS, BRACKETS, AND RACK ATTACHMENT HARDWARE.

D. CLEAN ALL SURFACES OF ROOM PRIOR TO OWNER'S INSTALLATION OF ACTIVE NETWORK EQUIPMENT.

E. EACH TELECOMMUNICATIONS ROOM LAYOUT SHALL BE APPROVED BY THE OWNER PRIOR TO ANCHORING OR INSTALLING EQUIPMENT. PROVIDE A PRE-CONSTRUCTION COORDINATION MEETING AND INCLUDE DESIGN TEAM AND OWNER TO ENSURE PROPER CONFIGURATION OF SCHEDULED EQUIPMENT. ROOM LAYOUT ILLUSTRATED IN THE DRAWINGS IS FOR BID PURPOSES ONLY.

F. BIDDING CONTRACTOR SHALL HAVE THE FOLLOWING OPTIONS FOR TELECOMMUNICATION ROOM WALL COVERINGS:
   1. PROVIDE AC GRADE PLYWOOD THAT IS PAINTED ON ALL SIDES WITH TWO COATS OF A WHITE FIRE-RETARDANT PAINT.
   2. PROVIDE FIRE-RETARDANT AC GRADE PLYWOOD THAT IS PAINTED WHITE BUT LEAVING THE FIRE RETARDANT MARKINGS/SEAL EXPOSED FOR INSPECTION PURPOSES.

AUDIO VISUAL NOTES

A. PROVIDE AN AUDIO VIDEO CONTROLS SYSTEM THAT INTEGRATES ALL MENTIONED COMPONENTS. GRANULAR CONTROL CAPABILITIES SHALL BE ACCESSED THROUGH THIS PLATFORM. PROVIDE TWO (2) WALL-MOUNT TOUCHSCREENS AND A CUSTOM USER INTERFACE FOR EACH DEFINED USE CASE FOR THIS ROOM. APPROVED MANUFACTURERS ARE CRESTRON, EXTRON OR EQUIVALENT.

B. ALL SUPPORTING DOCUMENTATION, PROGRAMMING, UNCOMPILED SOURCE CODE, GRAPHIC FILES, DSP CODE AND DIAGRAMS, WRITTEN AND ELECTRONIC FILES, INCLUDING ALL LATEST VERSIONS OF THE DOCUMENTATION AND SOFTWARE NECESSARY TO EDIT AND ADAPT THE SYSTEM(S), SHALL BE PROVIDED TO THE OWNER FOR ALL SPACES AND ALL SYSTEMS. THE INTEGRATOR AND/OR PROGRAMMER SHALL ALSO MAINTAIN A CURRENT COPY TO BE PROVIDED AT THE OWNER'S REQUEST.
   a. THE OWNER SHALL HAVE THE RIGHT TO MODIFY THIS CONTENT DIRECTLY OR TO HAVE IT MODIFIED BY ANY PARTY OF THE OWNER'S CHOOSING.

B. IN ADDITION TO THE INSTALLATION AND REQUIRED TECHNICIAN PROGRAMMING TIME, CONTRACTOR SHALL ACCOMMODATE THE FOLLOWING TIME REQUIREMENTS AT A MINIMUM:
   a. PRE-PROGRAMMING MEETING: EXPLAIN SYSTEM CAPABILITIES TO COORDINATE WITH STAFF'S NEEDS. (2 HOURS)
   b. POST-PROGRAMMING MEETING: WALK THROUGH TOUCHSCREEN AND ANY MOBILE APPLICATION LAYOUT. (2 HOURS)
   c. DEMONSTRATION AND COMPLETE END USER TRAINING. (2 HOURS)

DIVISION 28 - LIFE SAFETY & SECURITY

ACCESS CONTROL/SECURITY MANAGEMENT NOTES

A. EXTEND THE EXISTING LENEL ON GUARD SECURITY MANAGEMENT ACCESS CONTROL SYSTEM. DETAILS ILLUSTRATED IN THE DRAWINGS ARE DIAGRAMMATIC TO ILLUSTRATE PATHWAY, ROUGH-IN, DEVICE AND CABLING REQUIREMENTS. REVIEW SPECIFICATION SECTION 08 71 00 FOR ALL SPECIFIC ELEMENTS THAT ARE SCHEDULED AT EACH OPENING.

B. PROVIDE LABOR TO IMPORT A DYNAMIC MAP OF THE BUILDING OR CAMPUS INTO THE SECURITY MANAGEMENT PLATFORM. WITH OWNER DIRECTION, PROVIDE A COMPLETE LAYOUT OF ALL FIELD DEVICES INSIDE OF THIS MAP THAT ALLOWS FOR QUICK AND VISUAL ACCESS TO ALL SECURED OPENINGS AND AUXILIARY ALARM LOCATIONS.

C. IT IS THE INTENT THAT ALL PATHWAYS AND ROUGH-IN SERVING ACCESS CONTROL SHALL BE RECESSED AND CONCEALED. EXPOSED CABLING OR SURFACE PATHWAYS SHALL NOT BE ACCEPTED.

D. DETAILS ILLUSTRATED IN THE DRAWINGS ARE NOT INTENDED TO ACCURATELY ILLUSTRATE CEILING TYPES, CEILING AND DECK HEIGHTS, DOOR SWING OR DOOR FINISHES. COORDINATE EACH OPENING'S SPECIFIC ROUGH-IN AND PATHWAY NEEDS WITH ARCHITECTURAL PLANS AND ELEVATIONS.

FIRE DETECTION & ALARM NOTES

A. EXTEND THE EXISTING SILENT KNIGHT FIRE DETECTION AND ALARM SYSTEM TO LOCATIONS ILLUSTRATED ON THE DRAWINGS.

B. FIRE ALARM ITEMS AND DEVICES ARE SHOWN IN SUGGESTED LOCATIONS. FINAL LAYOUTS, LOCATIONS, AND QUANTITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTINGS. COORDINATE LOCATIONS WITH LIGHTING AND AIR HANDLING SYSTEMS.

C. ALL FIRE ALARM CIRCUITRY IN EXPOSED CEILING SPACES SHALL BE IN ¾" CONDUIT PER SPECIFICATIONS. EXPOSED CABLING SHALL NOT BE ACCEPTED.

D. ALL CONCEALED, ACCESSIBLE CEILING TILE LOCATIONS SHALL BE ALLOWED TO HAVE OPEN AIR CABLING INSTALLED. PROVIDE J-HOOKS, BRIDLE RINGS AND ASSOCIATED CABLE SUPPORTS TO KEEP INFRASTRUCTURE MANAGED AND OFF OF THE CEILING TILE.

E. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRESTOPPING AT ALL PENETRATIONS PER SPECIFICATION.

LIFE SAFETY & SECURITY DEMOLITION NOTES

A. ALL EXISTING DEVICES AND DEVICE LOCATIONS WERE MADE BY CASUAL FIELD OBSERVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING SYSTEM COMPONENTS AND DEVICE LOCATIONS.

B. PROVIDE LABOR AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

C. SYSTEMS SCHEDULED TO BE REMOVED SHALL BE DONE SO IN THEIR ENTIRETY. ABANDONED CABLING SHALL NOT BE ACCEPTED. REMOVE ALL ASSOCIATED FIELD DEVICES AND HEAD END EQUIPMENT.

D. REMOVED EQUIPMENT AND SYSTEMS SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. MATERIALS NOT SALVAGED BY THE OWNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR PROPER DISPOSAL.

E. REMOVE AND REINSTALL CEILING TILE REQUIRED FOR THE WORK BEING DONE UNDER THIS CONTRACT. DAMAGED CEILING TILE SHALL BE REPLACED TO MATCH EXISTING.

F. DO NOT CUT EXISTING LIFE SAFETY AND SECURITY WIRING, CABLES OR CONDUIT AS EXISTING SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR WHO CUTS IN-SERVICE CABLES SHALL BE RESPONSIBLE FOR DOWNTIME AND THE COSTS TO REPAIR. PROVIDE A GRACEFUL MIGRATION FROM EXISTING SYSTEMS SCHEDULED TO BE DEMOLISHED TO NEW.

INTRUSION DETECTION NOTES

A. PROVIDE A COMPLETE INTRUSION DETECTION SYSTEM. WALK THE BUILDING OWNER THROUGH ALL CIRCUIT MONITORING OPTIONS PRIOR TO INSTALLATION. AS PART OF THE BID, PROVIDE ONE YEAR OF CENTRAL MONITORING SERVICE IN CONJUNCTION WITH THE FIRE DETECTION AND ALARM SYSTEM (IF APPLICABLE). CONNECT TO BEAVERTON SCHOOL DISTRICT'S PREFERRED MONITORING COMPANY.

VIDEO MANAGEMENT NOTES

A. EXTEND THE EXISTING MILESTONE VIDEO MANAGEMENT SYSTEM. PROVIDE CAMERA CHANNEL LICENSING FOR THE NETWORK VIDEO RECORDER AND ALL CAMERA LOCATIONS ILLUSTRATED ON THE DRAWINGS.

B. PROVIDE LABOR TO IMPORT A DYNAMIC MAP OF THE BUILDING OR CAMPUS INTO THE VIDEO MANAGEMENT PLATFORM. WITH OWNER DIRECTION, PROVIDE A COMPLETE LAYOUT OF ALL CAMERAS INSIDE OF THIS MAP THAT ALLOWS FOR QUICK AND VISUAL ACCESS TO ALL AVAILABLE CAMERAS.

C. IT IS THE INTENT THAT ALL PATHWAYS, CABLING AND ROUGH-IN SERVING VIDEO MANAGEMENT SYSTEM SHALL BE RECESSED AND CONCEALED. EXPOSED CABLING OR SURFACE PATHWAYS SHALL NOT BE ACCEPTED.

TECHNOLOGY GENERAL NOTES

A. ALL NOTES APPLY TO THE FOLLOWING SERIES SHEETS: T AND AV SERIES

B. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. ANY REWORK OF INSTALLED EQUIPMENT WILL BE AT THE CONTRACTOR'S EXPENSE.

C. INCORPORATE INTO INSTALLATION COMMUNICATIONS AND LIFE SAFETY/SECURITY SYSTEM SPECIFICATIONS, DRAWINGS, STATE AND LOCAL CODES, AND OTHER APPLICABLE REQUIREMENTS.

D. EACH TRADE IS RESPONSIBLE TO MAKE PENETRATIONS WHERE REQUIRED IN EXISTING OR NEW WALLS, FLOORS, AND CEILINGS. PENETRATIONS SHALL BE NEAT. ANY OVERCUT SHALL BE CONCEALED OR CAULKED.

E. ALL NEW CONDUITS SHALL BE PROVIDED A PULL STRING TO ALLOW EASE OF CABLE INSTALLATION.

TECHNOLOGY RESPONSIBILITY MATRIX

PROVISION RESPONSIBILITIES DEFINED	OFOI	OFCI	CFCI	CFOI
COMMUNICATIONS - TELECOM SYSTEMS:				
ROUGH-IN, PATHWAYS AND SLEEVES			●	
RACKS, FRAMES AND ENCLOSURES			●	
CABLE MANAGEMENT			●	
UNINTERRUPTIBLE POWER SUPPLIES (RACK MOUNT)			●	
PLYWOOD BACKBOARDS			●	
COPPER BACKBONE CABLING			●	
OPTICAL FIBER BACKBONE CABLING			●	
COAXIAL BACKBONE CABLING	NA	NA	NA	NA
COPPER HORIZONTAL CABLING			●	
OPTICAL FIBER HORIZONTAL CABLING	NA	NA	NA	NA
COAXIAL HORIZONTAL CABLING	NA	NA	NA	NA
DATA COMMUNICATIONS SWITCHES AND HUBS	●			
DATA COMMUNICATIONS WIRELESS ACCESS POINTS		●		
VOICE COMMUNICATIONS SWITCHING AND ROUTING EQUIPMENT	●			
COMMUNICATIONS - AUDIO-VISUAL SYSTEMS:				
ROUGH-IN, PATHWAYS AND SLEEVES			●	
PROJECTOR(S)			●	
FLAT PANEL DISPLAY(S)		●		
MULTI-TOUCH DISPLAY(S)		●		
DISPLAY TECHNOLOGY MOUNTING HARDWARE			●	
AUDIO VIDEO NETWORK SWITCH			●	
HEAD-END EQUIPMENT			●	
COMMUNICATIONS - DISTRIBUTED SYSTEMS:				
ROUGH-IN, PATHWAYS AND SLEEVES			●	
MASTER ANTENNA / COMMUNITY ANTENNA TELEVISION DISTRIBUTION	NA	NA	NA	NA
PUBLIC ADDRESS SYSTEM	NA	NA	NA	NA
SOUND MASKING / SPEECH PRIVACY SYSTEM	NA	NA	NA	NA
INTERCOMMUNICATIONS SYSTEM	NA	NA	NA	NA
WIRED / WIRELESS CLOCK SYSTEM	NA	NA	NA	NA
RESCUE ASSISTANCE - ELEVATOR LOBBY	NA	NA	NA	NA
DISTRIBUTED ANTENNA SYSTEM	NA	NA	NA	NA
SECURITY - ACCESS CONTROL:				
ROUGH-IN, PATHWAYS AND SLEEVES			●	
SECURITY MANAGEMENT SYSTEM - HEAD END COMPONENTS			●	
SECURITY MANAGEMENT SYSTEM - FIELD DEVICES			●	
SECURITY MANAGEMENT SYSTEM - ELECTRIFIED DOOR HARDWARE			●	
SECURITY MANAGEMENT SYSTEM - ALL CABLING			●	
SECURITY - VIDEO INTERCOM:				
ROUGH-IN, PATHWAYS AND SLEEVES			●	
DOOR STATION(S)			●	
HEAD END EQUIPMENT AND COMPONENTS			●	
SECURITY - VIDEO SURVEILLANCE:				
ROUGH-IN, PATHWAYS AND SLEEVES			●	
CAMERA(S)			●	
SERVER	●			
SECURITY - INTRUSION DETECTION:				
ROUGH-IN, PATHWAYS AND SLEEVES			●	
FIELD DEVICES (MOTION DETECTORS, KEYPADS, DOOR SWITCHES)			●	
HEAD END EQUIPMENT AND COMPONENTS			●	
SAFETY - FIRE DETECTION AND ALARM:				
ROUGH-IN, PATHWAYS AND SLEEVES			●	
INITIATING FIELD DEVICES (SMOKE, MANUAL PULL, MONITOR MODULES)			●	
NOTIFICATION APPLIANCES (HORNS, STROBES, SPEAKERS)			●	
MISCELLANEOUS DEVICES (RELAYS, TEST STATION, ANNUNCIATOR)			●	

- OFOI — OWNER FURNISHED & OWNER INSTALLED
- OFCI — OWNER FURNISHED & CONTRACTOR INSTALLED
- CFCI — CONTRACTOR FURNISHED & CONTRACTOR INSTALLED
- CFOI — CONTRACTOR FURNISHED & OWNER INSTALLED

GENERAL NOTE:
A. MATRIX IS NOT INTENDED TO BE EXHAUSTIVE TO COVER ALL MATERIALS NECESSARY FOR SCOPE AND SHOULD ONLY BE USED TO QUICKLY IDENTIFY SYSTEMS AND RELATED INFRASTRUCTURE INSIDE AND OUTSIDE THE BID OF THIS PROJECT. ANY ITEMS FURNISHED OR INSTALLED BY THE BIDDING CONTRACTOR SHALL COVER ALL REQUIRED APPERTUNANCES NECESSARY FOR A COMPLETE SYSTEM. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, EQUIPMENT, ACCESSORIES, TERMINATIONS, TERMINATION COMPONENTS, ALL FINAL CORDAGE CONNECTIVITY, SOFTWARE, PROGRAMMING, AND THE LABOR TO INSTALL.

TELECOMMUNICATIONS INFRASTRUCTURE SCHEDULE

CABLE QUANTITY.
WAP (WIRELESS ACCESS POINT) = 2
C (CAMERA) = 1

[+#"] # [X] — ROUGH-IN TYPE; OFFSET HEIGHT A.F.F.

SYMBOL	TYPE	TYP. ELEVATION	ROUGH-IN DESCRIPTION / BOX TYPE	CABLE TYPE	NOTES
# ▼	STANDARD	+18"	EQUAL TO RACO 258 W/ SINGLE GANG REDUCER	CAT6	
# ▼ m	MASONRY	+18"	EQUAL TO STEEL CITY GQ-135-NG-1	CAT6	
# ▼ s	SURFACE MOUNT	+18"	EQUAL TO COMMSCOPE M102SMB	CAT6	1
# [▼]	FLOOR BOX	N/A	REFER TO ELECTRICAL DRAWINGS AND SCHEDULES	CAT6	2
# ▼ TV	RECESSED WALL	+60"	EQUAL TO FSR PRODUCTS # PWB-100	CAT6	3

GENERAL NOTES:
a. REFER TO DRAWINGS AND DETAILS FOR LOCATIONS, STANDARDS, DIAGRAM, AND ADDITIONAL INFORMATION.
b. UNLESS OTHERWISE INDICATED, INSTALL DEVICE AT TYPICAL ELEVATION NOTED.
c. COORDINATE PLATE OPTIONS WITH ELECTRICAL DEVICES.
d. PROVIDE MINIMUM OF 1" CONDUIT THAT STUBS ABOVE ACCESSIBLE CEILING AND/OR BELOW RAISED FLOORING FOR EACH SPACE IDENTIFIED.
e. PROVIDE A 10' SERVICE LOOP OF DATA CABLING AT EACH LOCATION.

KEYNOTES:
1. PROVIDE MANUFACTURER PRE-TERMINATED PATCH CABLES FOR ALL SURFACE MOUNT BOXES. USE 15' CATEGORY 6 FOR BID PURPOSES.
2. COORDINATE AND PROVIDE ALL REQUIRED ACCESSORY FRAME AND PLATE OPTIONS WITH ELECTRICAL CONTRACTOR.
3. DESIGN INTENT SHALL BE THAT POWER, DATA, AND AUDIO VISUAL INFRASTRUCTURE IS HOSTED WITHIN THIS RECESSED BOX.

TELECOMMUNICATIONS INFRASTRUCTURE SYMBOLS

Symbol	Description
# ▼	DATA CABLING - CATEGORY 6 CABLE - # DEFINES QUANTITY OF CABLES
WAP ▼	WIRELESS ACCESS POINT - TWO (2) CATEGORY 6A CABLES TO EACH INSTANCE
TV	CABLE TELEVISION LOCATION - RADIO GRADE CABLING
	SEE RISER DIAGRAM AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

AUDIO VISUAL SYMBOLS

Symbol	Description
S	SPEAKER - SUSPENDED OR CEILING MOUNTED
S W	SPEAKER - RECESSED WALL MOUNTED
M	CEILING MICROPHONE
M	TABLE MICROPHONE
AL	ASSISTIVE LISTENING EMITTER
AV	AUDIO VISUAL SYSTEM CONNECTION - FLOOR OR WALL - SEE DETAILS
CP	AUDIO VISUAL SYSTEM CONTROL PANEL
PAC	CHIEF PAC BOX 526F, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR BEHIND EACH DISPLAY
XX	J BOX, "X" DESIGNATES SIZE OF J BOX
FB	FLOOR BOX
	WALL OR CEILING MOUNTED CAMERA FOR AV SYSTEM

AREA OF REFUGE / RESCUE ASSISTANCE SYMBOLS

Symbol	Description
RACS	RESCUE ASSISTANCE CALL STATION
RAPS	RESCUE ASSISTANCE POWER SUPPLY
RAMS	RESCUE ASSISTANCE MASTER STATION

GROUNDING AND BONDING SYMBOLS

Symbol	Description
	GROUND BAR
TMGB	TELECOMMUNICATIONS MAIN GROUND BAR
TGB	TELECOMMUNICATIONS GROUND BAR
	SEE RISER DIAGRAM AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

VIDEO SURVEILLANCE SYMBOLS

Symbol	Description
CAM-#	VIDEO SURVEILLANCE CAMERA - REFER TO SCHEDULE
C ▼	DATA CABLING - SINGLE CAT 6 CABLE PER LOCATION FOR CAMERA USE

GENERAL SYMBOLS

Symbol	Description
	CONDUIT SLEEVE
○	CONDUIT UP, REFER TO TAG ON DRAWING FOR SIZE
●	CONDUIT DOWN, REFER TO TAG ON DRAWING FOR SIZE
J	JUNCTION BOX, CEILING OR FLOOR MOUNTED.
J	JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
	CIRCUIT HOMERUN, CONCEALED CONDUIT OR CABLE
	CIRCUIT HOMERUN, UNDER FLOOR CONDUIT OR CABLE
#	KITCHEN EQUIPMENT TAG NUMBER, REFER TO KITCHEN EQUIPMENT CONNECTION SCHEDULE
#	KEYNOTE
XXX / X	EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE
1 / A101 SIM	DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
	SECTION CUT REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE
A101 Ref 1	INTERIOR ELEVATION DRAWING REFERENCE TAG

ACCESS CONTROL SYMBOLS

Symbol	Description
CR	PROXIMITY CARD READER, +48" OR AS NOTED
CP	COMBINATION PROXIMITY CARD READER WITH PINPAD, +48" OR AS NOTED
D1	DOOR POSITION SWITCH - FLUSH MOUNTED, SINGLE POLE SINGLE THROW (SPST)
D2	DOOR POSITION SWITCH - FLUSH MOUNTED, DOUBLE POLE DOUBLE THROW (DPDT)
RX	REQUEST TO EXIT - MICROSWITCH INTEGRAL TO DOOR HARDWARE
ES	ELECTRIC STRIKE*
L1	ELECTRIFIED MORTISE LOCK*
EL	ELECTRIFIED EXIT DEVICE (PANIC HARDWARE)*
ML	MAGNETIC LOCK*
LB	LATCHBOLT MONITOR
•	AUTOMATIC DOOR OPERATOR - WALL MOUNTED +48", OR AS NOTED
KS	KEYSWITCH
PIR	REQUEST-TO-EXIT MOTION DETECTOR
EP	EMERGENCY PUSHBUTTON
PB	REQUEST TO EXIT PUSHBUTTON

* ELECTRIFIED DOOR HARDWARE SYMBOLS ARE SHOWN FOR REFERENCE PURPOSES ONLY. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

INTRUSION DETECTION SYMBOLS

Symbol	Description
KP	INTRUSION DETECTION KEYPAD
IR	CEILING MOUNT MOTION DETECTOR
GB	CEILING MOUNT GLASS BREAK SENSOR
B	BELL/BUZZER AUDIBLE ALARM
DB	DURESS BUTTON ALARM - MOUNTED UNDER DESK/COUNTER

FIRE DETECTION AND ALARM SYMBOLS

Symbol	Description
F	MANUAL FIRE ALARM PULL STATION
S	SMOKE DETECTOR
S SB	SMOKE DETECTOR WITH 520Hz SOUNDER BASE
S	SMOKE DETECTOR - WALL MOUNTED
S	DUCT SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
S	COMBINATION SMOKE-CARBON MONOXIDE DETECTOR
	HEAT DETECTOR
H	HORN - WALL MOUNTED
	COMBINATION HORN WITH STROBE - WALL MOUNTED
C	COMBINATION HORN WITH STROBE - CEILING MOUNTED
	COMBINATION SPEAKER WITH STROBE - WALL MOUNTED
C	COMBINATION SPEAKER WITH STROBE - CEILING MOUNTED
	STROBE - WALL MOUNTED
	STROBE - CEILING MOUNTED
S	SPEAKER - WALL MOUNTED
S C	SPEAKER - CEILING MOUNTED
	FIRE FIGHTER TELEPHONE STATION
AIM	ADDRESSABLE INPUT MODULE
AIM FS	SPRINKLER WATER FLOW SWITCH - ADDRESSABLE INPUT MODULE
AIM TS	SPRINKLER VALVE TAMPER SWITCH - ADDRESSABLE INPUT MODULE
AIM PIV	SPRINKLER POST INDICATOR VALVE TAMPER - ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE
AOM SD	FAN SHUT DOWN RELAY - ADDRESSABLE OUTPUT MODULE
	MAGNETIC DOOR HOLD - SURFACE MOUNTED
	MAGNETIC DOOR HOLD - FLOOR MOUNTED
SD ▶	SMOKE DAMPER
FSD ▶▷	COMBINATION FIRE/SMOKE DAMPER
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL + EMERGENCY COMMUNICATIONS PANEL

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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

TECHNOLOGY GENERAL NOTES & SYMBOLS

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TECHNOLOGY DEMOLITION PLAN - LEVEL 1
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES

A. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT.

B. REMOVE ELECTRICAL FACILITIES SELECT DEMOLITION AREAS TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

C. THIS ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAS BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.

D. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND REMOVALS. WIRING SHALL BE REMOVED. ALL WIRING FOR THE REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE IMMEDIATE DEMOLITION AREA SHALL BE MAINTAINED.

E. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.

F. PANELBOARDS, DISCONNECTS, FIXTURES, WIRING DEVICES, SIGNAL DEVICES, ETC., SHOWN ON PLANS SHALL BE REMOVED UNLESS NOTED OTHERWISE. REMOVAL SHALL BE DONE IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION WORK. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.

G. EXISTING FURNITURE JUNCTION BOXES AT WINDOWS: REMOVE EXPOSED SURFACE RACEWAY BACK TO SOURCE JUNCTION BOX AND PROVIDE BLANK COVER AT EXISTING FLUSH JUNCTION BOX. PREPARE FOR EXTENSION TO NEW MODULAR FURNITURE LOCATIONS PER PLANS.

H. WHERE EXISTING LIGHTING IS BEING REMOVED, MAINTAIN EXISTING BRANCH CIRCUITING IN THE ROOM OR AREA TO REFEED RELOCATED OR NEW FIXTURES PER PLAN. FIELD TRACE AND IDENTIFY BRANCH CIRCUIT AND SWITCHLEGS AND PREPARE FOR RECONNECTION. REFER TO LIGHTING PLANS FOR ADDITIONAL REQUIREMENTS.

I. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

KEYNOTES

1. EXISTING HONEYWELL SILENT KNIGHT 6808 CONTROL PANEL TO BE MODIFIED AND EXTENDED. SEE THE LIFE SAFETY & SECURITY DRAWINGS FOR ADDITIONAL INFORMATION.
2. EXISTING TELECOMMUNICATIONS ROOM TO BE DEMOLISHED. ALL CATEGORY 5, 5E, AND 6 CABLING SCHEDULED TO BE DEMOLISHED ON THE FIRST FLOOR SHALL BE REMOVED IN ITS ENTIRETY BACK TO THIS LOCATION.
3. EXISTING SOFTWARE HOUSE ACCESS CONTROL PANEL TO BE DEMOLISHED. EXISTING DOORS CURRENTLY BEING CONTROLLED SHALL BE RE-INTERFACED WITH A NEW LENEL ONGUARD ACCESS CONTROL SYSTEM HOSTED ON THE SECOND FLOOR. REFER TO THE NEW LIFE SAFETY & SECURITY DRAWINGS FOR ADDITIONAL INFORMATION.
4. EXISTING ELEVATOR FLOOR CONTROL THROUGH THE HONEYWELL WINPAK ACCESS CONTROL SYSTEM. PROVIDE NEW CARD READERS AND RE-INTERFACE THE ELEVATOR FLOOR CONTROL CABLING WITH THE NEW LENEL ONGUARD ACCESS CONTROL SYSTEM.
5. ACCESS CONTROL CONNECTIVITY IS SERVED BY A NEARBY ABOVE CEILING REMOTE HONEYWELL WINPAK DEVICE. A NEW ACCESS CONTROL MULTI-CONDUCTOR COMPOSITE CABLE SHALL BE ROUTED TO THIS SAME LOCATION FROM THE 2ND FLOOR TELECOMMUNICATIONS ROOM AND THE ACCESS CONTROL PERIPHERAL DEVICE CONNECTIVITY SHALL BE INTERCEPTED. INTERFACE WITH THE NEW LENEL ONGUARD SYSTEM.
6. ACCESS CONTROL CONNECTIVITY IS SERVED BY THE 1ST FLOOR SOFTWARE HOUSE PANEL. PROVIDE A NEW MULTI-CONDUCTOR COMPOSITE CABLE TO RE-SERVE THIS OPENING'S PERIPHERAL DEVICES. REFER TO THE LIFE SAFETY & SECURITY DRAWINGS FOR ADDITIONAL INFORMATION.
7. REMOVE GLASS BREAKS IN THEIR ENTIRETY. DEVICES WIRE BACK TO THE SOFTWARE HOUSE ACCESS CONTROL PANEL FOUND ON FIRST FLOOR INSIDE THE EXISTING TELECOMMUNICATIONS ROOM.

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SUMMIT BUILDING
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PROJECT: 21019
DATE: 02.18.2022

TECHNOLOGY DEMOLITION PLAN - LEVEL 1

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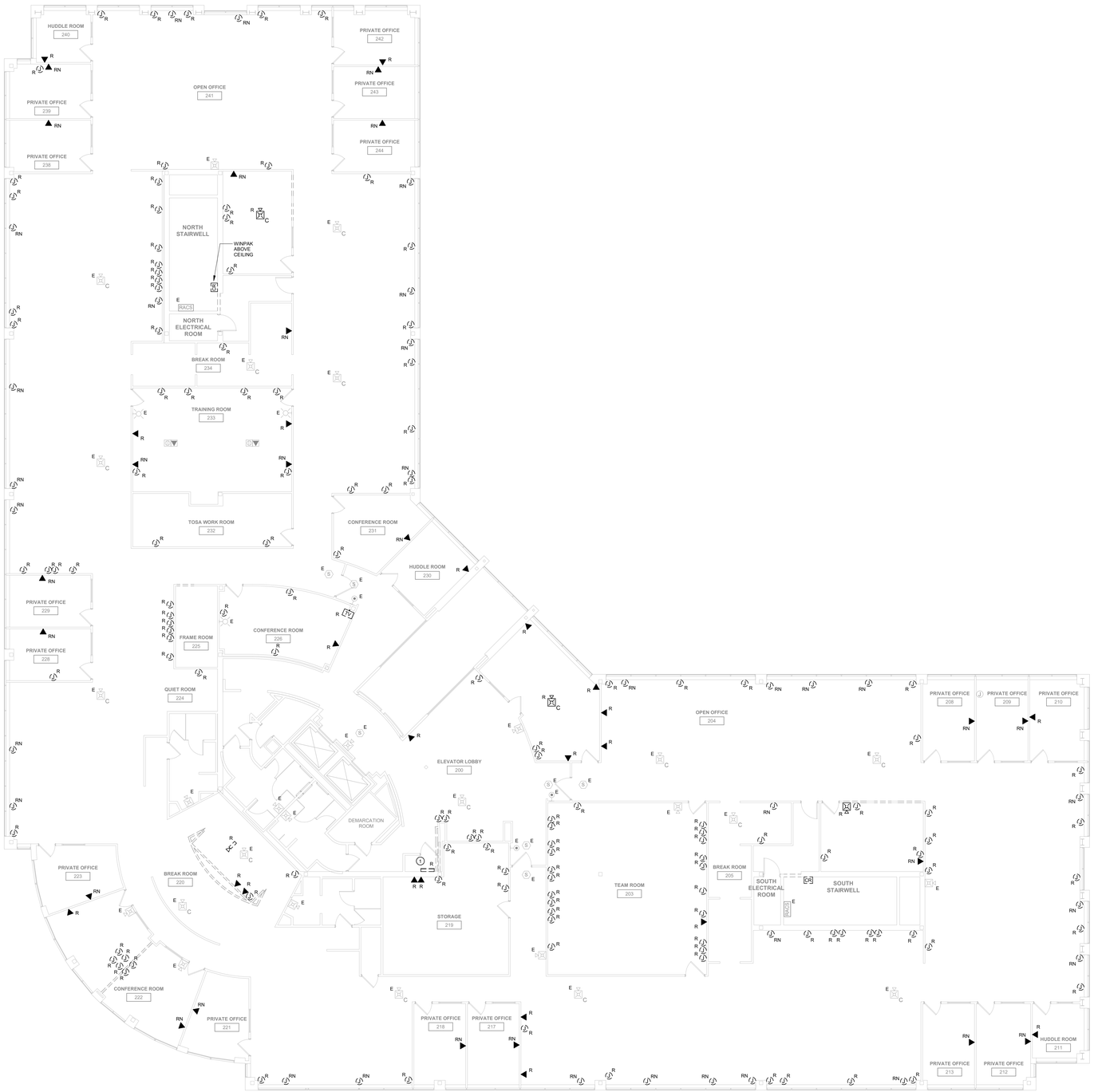

TECHNOLOGY DEMOLITION PLAN - LEVEL 2 (1)
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES

A. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT.

B. REMOVE ELECTRICAL FACILITIES SELECT DEMOLITION AREAS TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

C. THIS ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAS BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.

D. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND REMOVALS. WIRING SHALL BE REMOVED. ALL WIRING FOR THE REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE IMMEDIATE DEMOLITION AREA SHALL BE MAINTAINED.

E. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.

F. PANELBOARDS, DISCONNECTS, FIXTURES, WIRING DEVICES, SIGNAL DEVICES, ETC., SHOWN ON PLANS SHALL BE REMOVED UNLESS NOTED OTHERWISE. REMOVAL SHALL BE DONE IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION WORK. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.

G. EXISTING FURNITURE JUNCTION BOXES AT WINDOWS: REMOVE EXPOSED SURFACE RACEWAY BACK TO SOURCE JUNCTION BOX AND PROVIDE BLANK COVER AT EXISTING FLUSH JUNCTION BOX. PREPARE FOR EXTENSION TO NEW MODULAR FURNITURE LOCATIONS PER PLANS.

H. WHERE EXISTING LIGHTING IS BEING REMOVED, MAINTAIN EXISTING BRANCH CIRCUITING IN THE ROOM OR AREA TO REFEED RELOCATED OR NEW FIXTURES PER PLAN. FIELD TRACE AND IDENTIFY BRANCH CIRCUIT AND SWITCHLEGS AND PREPARE FOR RECONNECTION. REFER TO LIGHTING PLANS FOR ADDITIONAL REQUIREMENTS.

I. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

KEYNOTES (#)

1 EXISTING HONEYWELL WINPAK ACCESS CONTROL SYSTEM TO BE REPLACED. PROVIDE A HARDWARE AND SOFTWARE MIGRATION TO THE BEAVERTON SCHOOL DISTRICT STANDARD OF LENEL ONGUARD. PROVIDE NEW CABLING AND FIELD DEVICES AS REQUIRED FOR COMPATIBILITY. REFER TO THE LIFE SAFETY & SECURITY DRAWINGS FOR ADDITIONAL INFORMATION.

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PROJECT: 21019
DATE: 02.18.2022

TECHNOLOGY DEMOLITION PLAN - LEVEL 2

TD102

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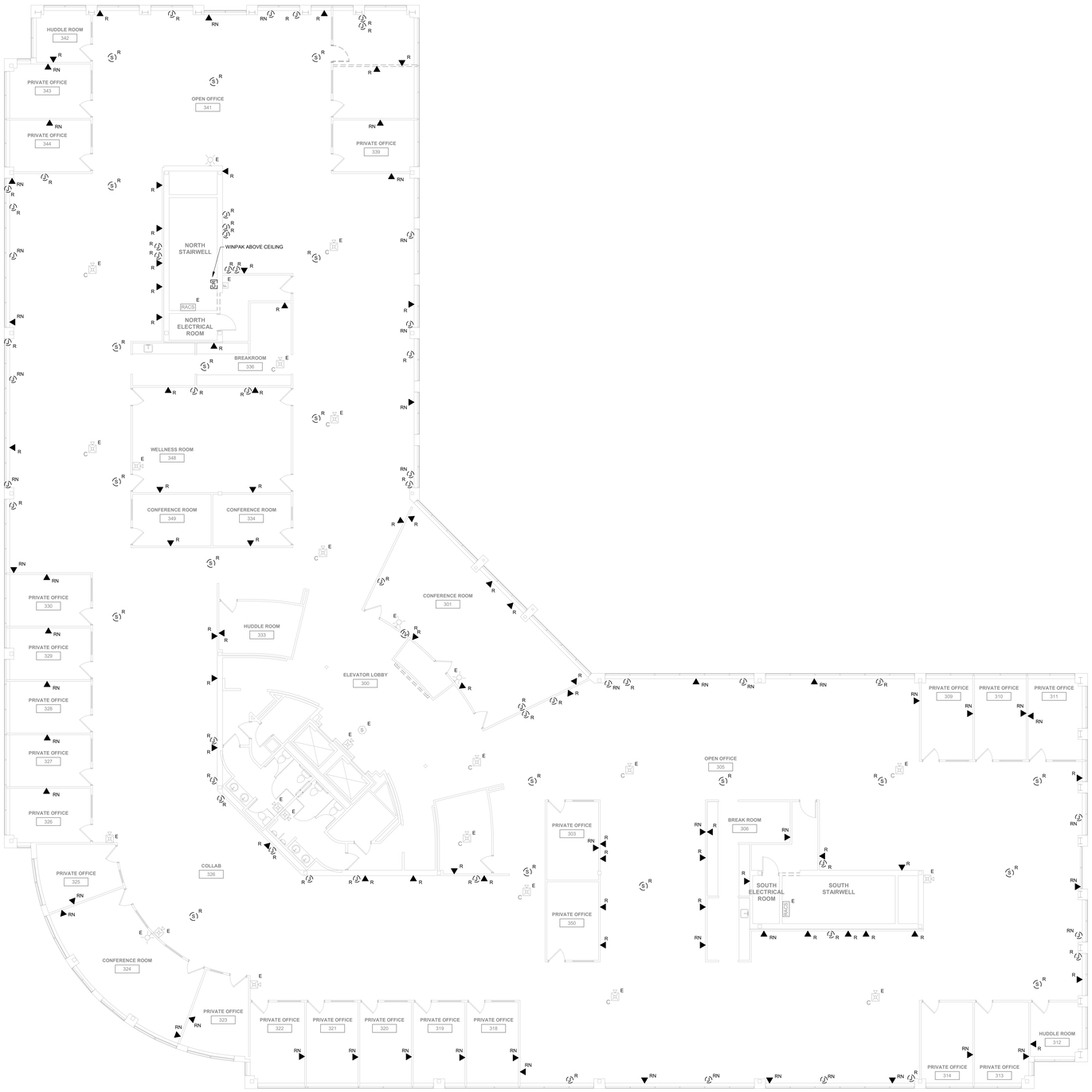

TECHNOLOGY DEMOLTION PLAN - LEVEL 3 (1)
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES

A. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT.

B. REMOVE ELECTRICAL FACILITIES SELECT DEMOLITION AREAS TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

C. THIS ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAS BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.

D. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND REMOVALS. WIRING SHALL BE REMOVED. ALL WIRING FOR THE REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE IMMEDIATE DEMOLITION AREA SHALL BE MAINTAINED.

E. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.

F. PANELBOARDS, DISCONNECTS, FIXTURES, WIRING DEVICES, SIGNAL DEVICES, ETC., SHOWN ON PLANS SHALL BE REMOVED UNLESS NOTED OTHERWISE. REMOVAL SHALL BE DONE IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION WORK. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.

G. EXISTING FURNITURE JUNCTION BOXES AT WINDOWS: REMOVE EXPOSED SURFACE RACEWAY BACK TO SOURCE JUNCTION BOX AND PROVIDE BLANK COVER AT EXISTING FLUSH JUNCTION BOX. PREPARE FOR EXTENSION TO NEW MODULAR FURNITURE LOCATIONS PER PLANS.

H. WHERE EXISTING LIGHTING IS BEING REMOVED, MAINTAIN EXISTING BRANCH CIRCUITING IN THE ROOM OR AREA TO REFEED RELOCATED OR NEW FIXTURES PER PLAN. FIELD TRACE AND IDENTIFY BRANCH CIRCUIT AND SWITCHLEGS AND PREPARE FOR RECONNECTION. REFER TO LIGHTING PLANS FOR ADDITIONAL REQUIREMENTS.

I. ABBREVIATIONS:
- E - EXISTING ITEM TO REMAIN
- ER - NEW LOCATION OF EXISTING ITEM
- N - NEW ITEM IN EXISTING LOCATION
- R - EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
- RN - REPLACE EXISTING WITH NEW
- RR - EXISTING ITEM TO BE REMOVED AND RELOCATED

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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

TECHNOLOGY DEMOLITION PLAN - LEVEL 3

TD103

2/18/2022 1:52:44 PM

TECHNOLOGY COMMUNICATIONS PLAN - LEVEL 1

1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES

1 ELEVATED DATA CABLING SERVING FLAT PANEL DISPLAY SHALL BE HOSTED INSIDE OF A COMMON TV BACK BOX ALONG WITH ELECTRICAL AND AUDIO VISUAL CONNECTIVITY. REFER TO THE AV SERIES DRAWINGS AND DETAILS FOR ADDITIONAL INFORMATION.

2 DATA OUTLET SHALL SERVE AUDIO VISUAL RACK CONNECTIVITY NEEDS. COORDINATE ROUGH-IN FOR THIS OUTLET TO BE ADJACENT TO THE AUDIO VISUAL BACKBOX AND POWER.

3 PROVIDE FOUR (4) 4" CONDUIT SLEEVE FLOOR PENETRATIONS FROM THIS FRAME ROOM DOWN TO THE FLOOR BELOW. UTILIZE THESE PATHWAYS FOR TELECOMMUNICATIONS CABLING AND ALL OTHER SPECIAL SYSTEMS.

4 ROUTE ALL 1ST FLOOR DATA CABLING TO THE 2ND FLOOR FRAME ROOM.

5 LOCATION OF MAIN BUILDING AC GROUND BUSBAR. PROVIDE A NEW COMMUNICATIONS GROUNDING AND BONDING SYSTEM INSIDE EACH OF THE TELECOMMUNICATIONS ROOMS. EXTEND A NEW TELECOMMUNICATIONS BONDING BACKBONE (TBB) CONDUCTOR FROM THIS LOCATION TO THE 2ND AND 3RD FLOOR TELECOMMUNICATIONS ROOMS.

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PROJECT: 21019
DATE: 02.18.2022

TECHNOLOGY COMMUNICATIONS PLAN - LEVEL 1

T101

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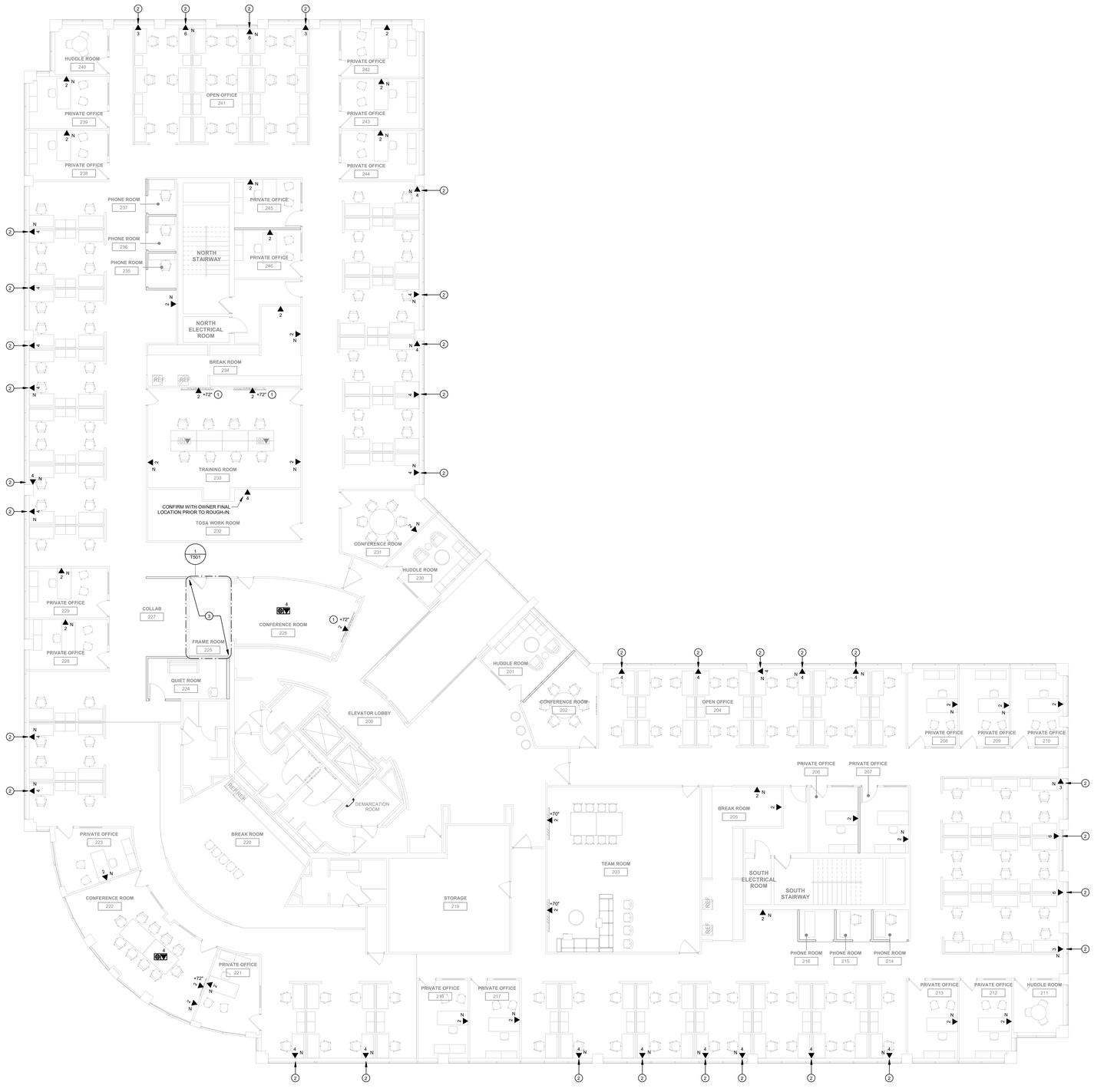

TECHNOLOGY COMMUNICATIONS PLAN - LEVEL 2 (1)

1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

1 ELEVATED DATA CABLING SERVING FLAT PANEL DISPLAY SHALL BE HOSTED INSIDE OF A COMMON TV BACK BOX ALONG WITH ELECTRICAL AND AUDIO VISUAL CONNECTIVITY. REFER TO THE AV SERIES DRAWINGS AND DETAILS FOR ADDITIONAL INFORMATION.

2 PROVIDE A GROMMET COVER PLATE AND ROUTE EXTRA LENGTH OF CABLING AT EACH OPENING TO EXTEND THE NEW DATA CABLING INTO THE FURNITURE. TERMINATE TO JACKS INSIDE OF THE FURNITURE SYSTEMS.

3 ROUTE ALL 2ND FLOOR DATA CABLING BACK TO THIS ROOM.

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DATE: 02.18.2022

TECHNOLOGY COMMUNICATIONS PLAN - LEVEL 2

T102

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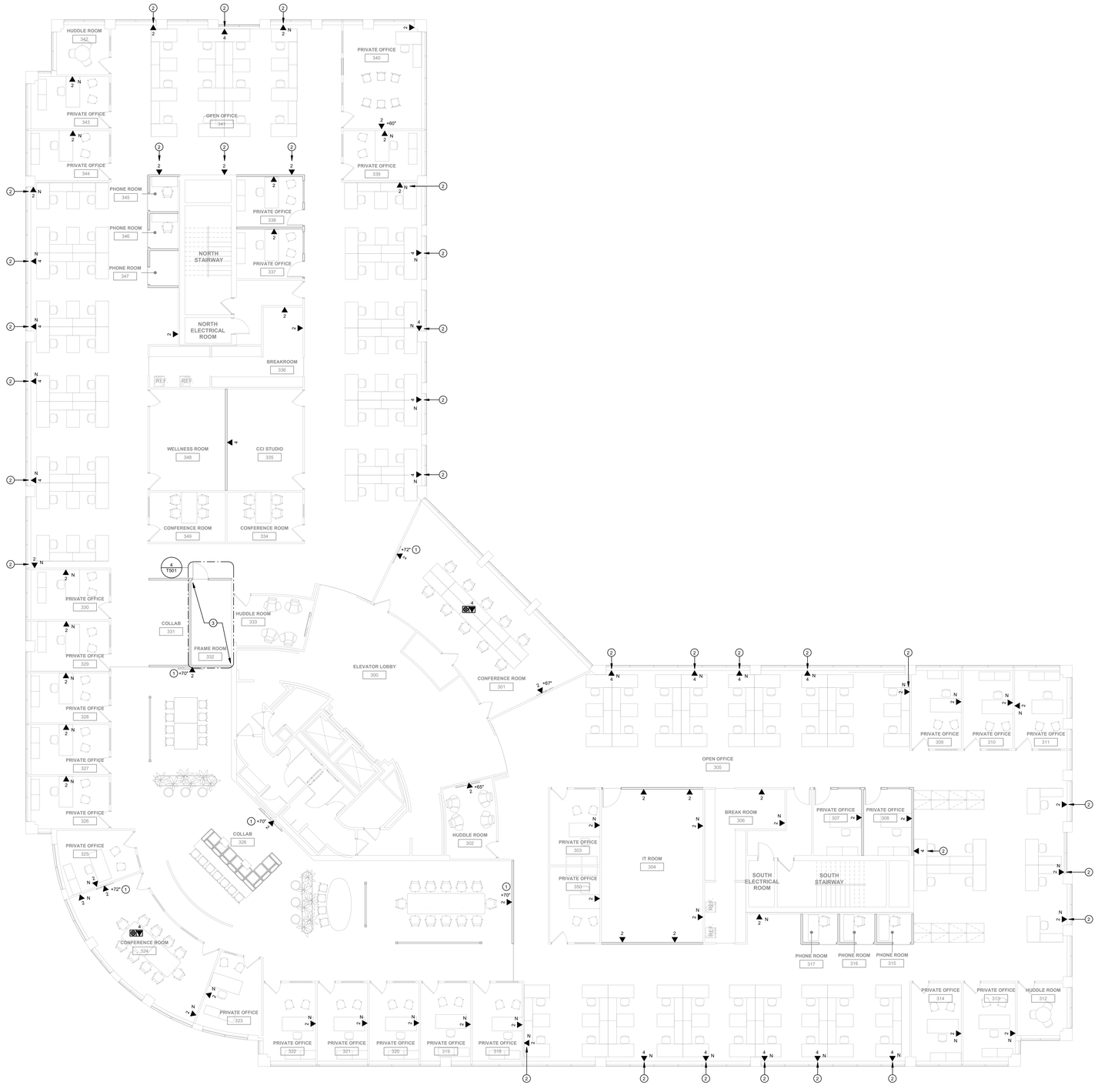

TECHNOLOGY COMMUNICATIONS PLAN - LEVEL 3 (1)

1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

1 ELEVATED DATA CABLING SERVING FLAT PANEL DISPLAY SHALL BE HOSTED INSIDE OF A COMMON TV BACK BOX ALONG WITH ELECTRICAL AND AUDIO VISUAL CONNECTIVITY. REFER TO THE AV SERIES DRAWINGS AND DETAILS FOR ADDITIONAL INFORMATION.

2 PROVIDE A GROMMET COVER PLATE AND ROUTE EXTRA LENGTH OF CABLING AT EACH OPENING TO EXTEND THE NEW DATA CABLING INTO THE FURNITURE. TERMINATE TO JACKS INSIDE OF THE FURNITURE SYSTEMS.

3 ROUTE ALL 3RD FLOOR DATA CABLING BACK TO THIS ROOM.

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PROJECT: 21019
DATE: 02.18.2022

TECHNOLOGY COMMUNICATIONS PLAN - LEVEL 3

T103

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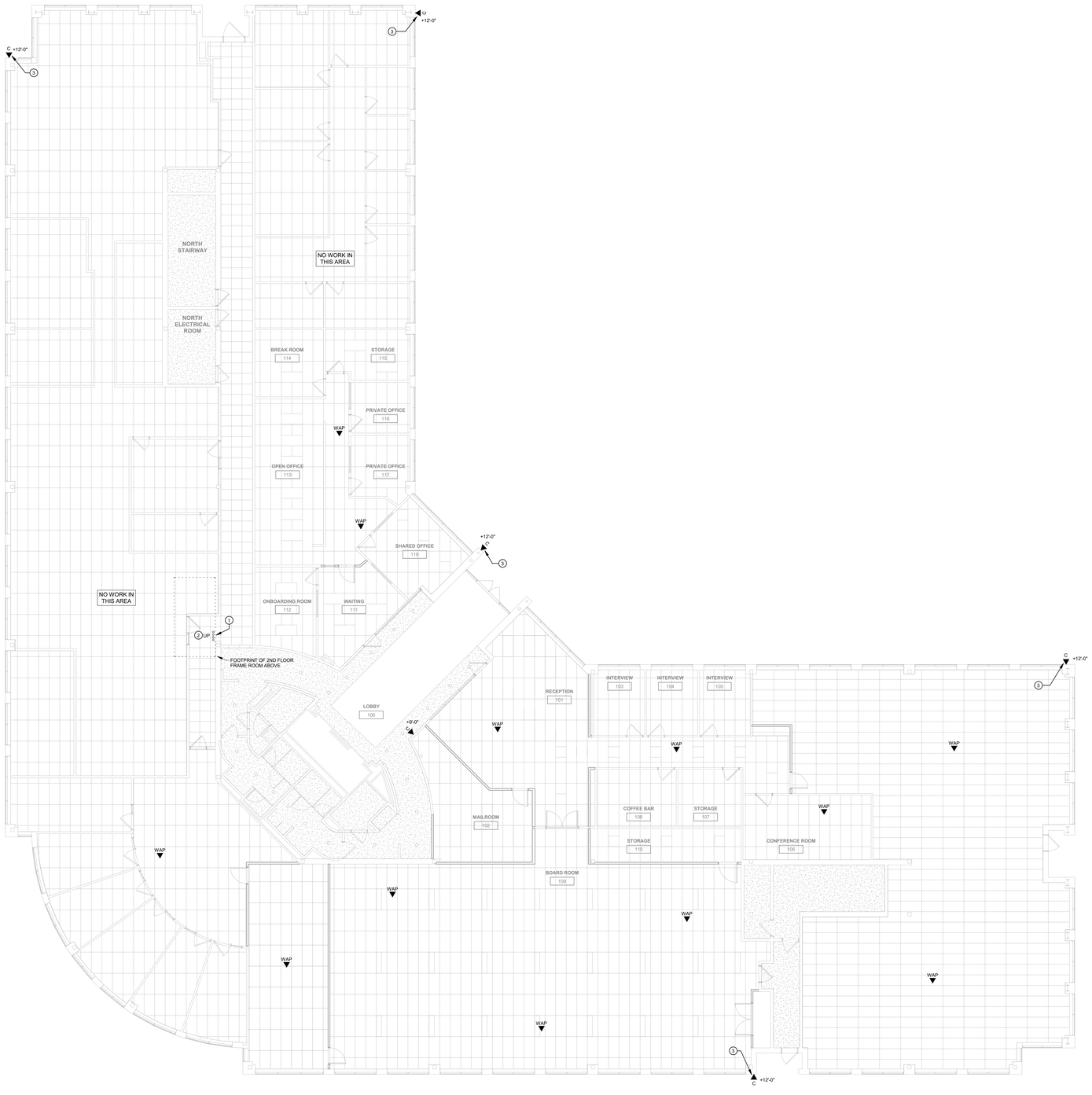

TECHNOLOGY COMMUNICATIONS CEILING PLAN - LEVEL 1 (1)
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

1 PROVIDE FOUR (4) 4" CONDUIT SLEEVE FLOOR PENETRATIONS FROM THIS FRAME ROOM DOWN TO THE FLOOR BELOW. UTILIZE THESE PATHWAYS FOR TELECOMMUNICATIONS CABLING AND ALL OTHER SPECIAL SYSTEMS.

2 ROUTE ALL 1ST FLOOR DATA CABLING TO THE 2ND FLOOR FRAME ROOM.

3 PROVIDE AN EXTERIOR WEATHERPROOF PENETRATION FOR THE CORNER MOUNTED VIDEO SURVEILLANCE CAMERA CABLING. TERMINATE CABLE ON THE INTERIOR OF THE BUILDING UTILIZING A SURFACE MOUNT JACK. FINAL CONNECTION TO THE CAMERA SHALL BE THROUGH THE USE OF A MANUFACTURER TERMINATED PATCH CABLE. DIRECT CAMERA ATTACHMENT WILL NOT BE ACCEPTED.

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TECHNOLOGY COMMUNICATIONS CEILING PLAN - LEVEL 1

T201

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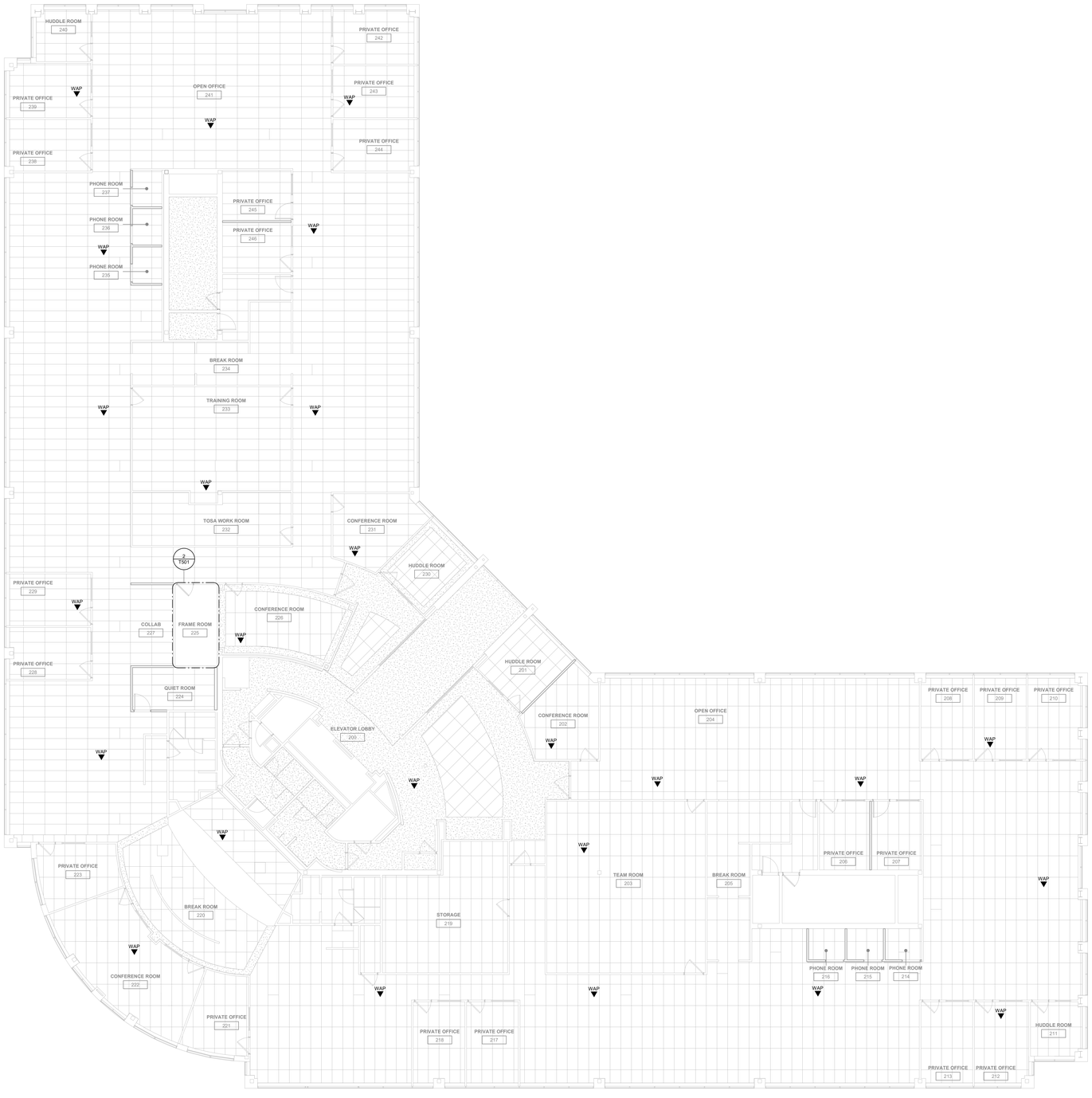

TECHNOLOGY COMMUNICATIONS CEILING PLAN - LEVEL 2 (1)

1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

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C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

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PROJECT: 21019
DATE: 02.18.2022

TECHNOLOGY COMMUNICATIONS CEILING PLAN - LEVEL 2

T202

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TECHNOLOGY COMMUNICATIONS CEILING PLAN - LEVEL 3 (1)
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

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PROJECT: 21019
DATE: 02.18.2022

TECHNOLOGY COMMUNICATIONS CEILING PLAN - LEVEL 3

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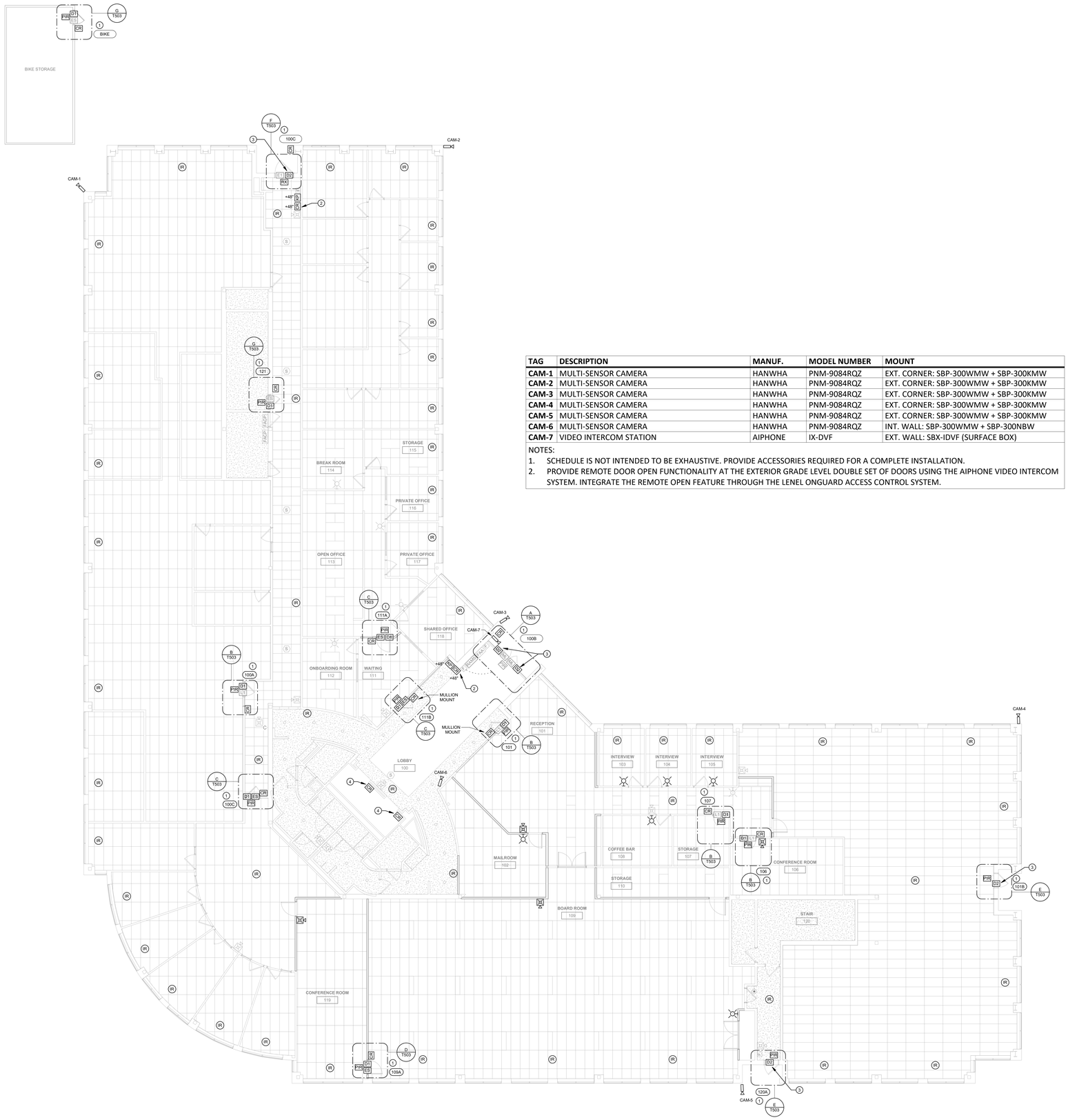

TAG	DESCRIPTION	MANUF.	MODEL NUMBER	MOUNT
CAM-1	MULTI-SENSOR CAMERA	HANWHA	PNM-9084RQZ	EXT. CORNER: SBP-300WMW + SBP-300KMW
CAM-2	MULTI-SENSOR CAMERA	HANWHA	PNM-9084RQZ	EXT. CORNER: SBP-300WMW + SBP-300KMW
CAM-3	MULTI-SENSOR CAMERA	HANWHA	PNM-9084RQZ	EXT. CORNER: SBP-300WMW + SBP-300KMW
CAM-4	MULTI-SENSOR CAMERA	HANWHA	PNM-9084RQZ	EXT. CORNER: SBP-300WMW + SBP-300KMW
CAM-5	MULTI-SENSOR CAMERA	HANWHA	PNM-9084RQZ	EXT. CORNER: SBP-300WMW + SBP-300KMW
CAM-6	MULTI-SENSOR CAMERA	HANWHA	PNM-9084RQZ	INT. WALL: SBP-300WMW + SBP-300NBW
CAM-7	VIDEO INTERCOM STATION	AIPHONE	IX-DVF	EXT. WALL: SBX-IDVF (SURFACE BOX)

NOTES:
1. SCHEDULE IS NOT INTENDED TO BE EXHAUSTIVE. PROVIDE ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
2. PROVIDE REMOTE DOOR OPEN FUNCTIONALITY AT THE EXTERIOR GRADE LEVEL DOUBLE SET OF DOORS USING THE AIPHONE VIDEO INTERCOM SYSTEM. INTEGRATE THE REMOTE OPEN FEATURE THROUGH THE LENEL ONGUARD ACCESS CONTROL SYSTEM.

TECHNOLOGY SAFETY & SECURITY CEILING PLAN - LEVEL 1 (1)
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

1 ACCESS CONTROL OPENING. REFER TO THE ACCESS CONTROL DETAILS FOR ROUGH-IN, WIRING AND DEVICE REQUIREMENTS.

2 PROVIDE A PROXIMITY CARD READER ADJACENT TO THE INTRUSION DETECTION KEYPAD. PROXIMITY READER SHALL BE DEDICATED TO ARMING AND DISARMING THE BUILDING USING GROUPS WITHIN THE LENEL ONGUARD SOFTWARE. WIRING FROM THE LNL-1320 READER BOARD SHALL BE INTERFACED WITH THE DEDICATED INPUT ON THE BOSCH INTRUSION DETECTION PANEL THAT ALLOWS FOR ARMING AND DISARMING BASED ON CONTACT CLOSURE.

3 EXTERIOR PERIMETER DOOR. NEW DOOR POSITION SWITCH(ES) SHALL BE DOUBLE-POLE, DOUBLE-THROW. INTERFACE ONE SET OF CONTACTS TO THE ACCESS CONTROL SYSTEM AND THE SECOND SET TO THE INTRUSION DETECTION SYSTEM.

4 EXISTING ELEVATOR FLOOR CONTROL THROUGH THE HONEYWELL WINPAK ACCESS CONTROL SYSTEM. PROVIDE NEW CARD READERS AND RE-INTERFACE THE ELEVATOR FLOOR CONTROL CABLING WITH THE NEW LENEL ONGUARD ACCESS CONTROL SYSTEM.

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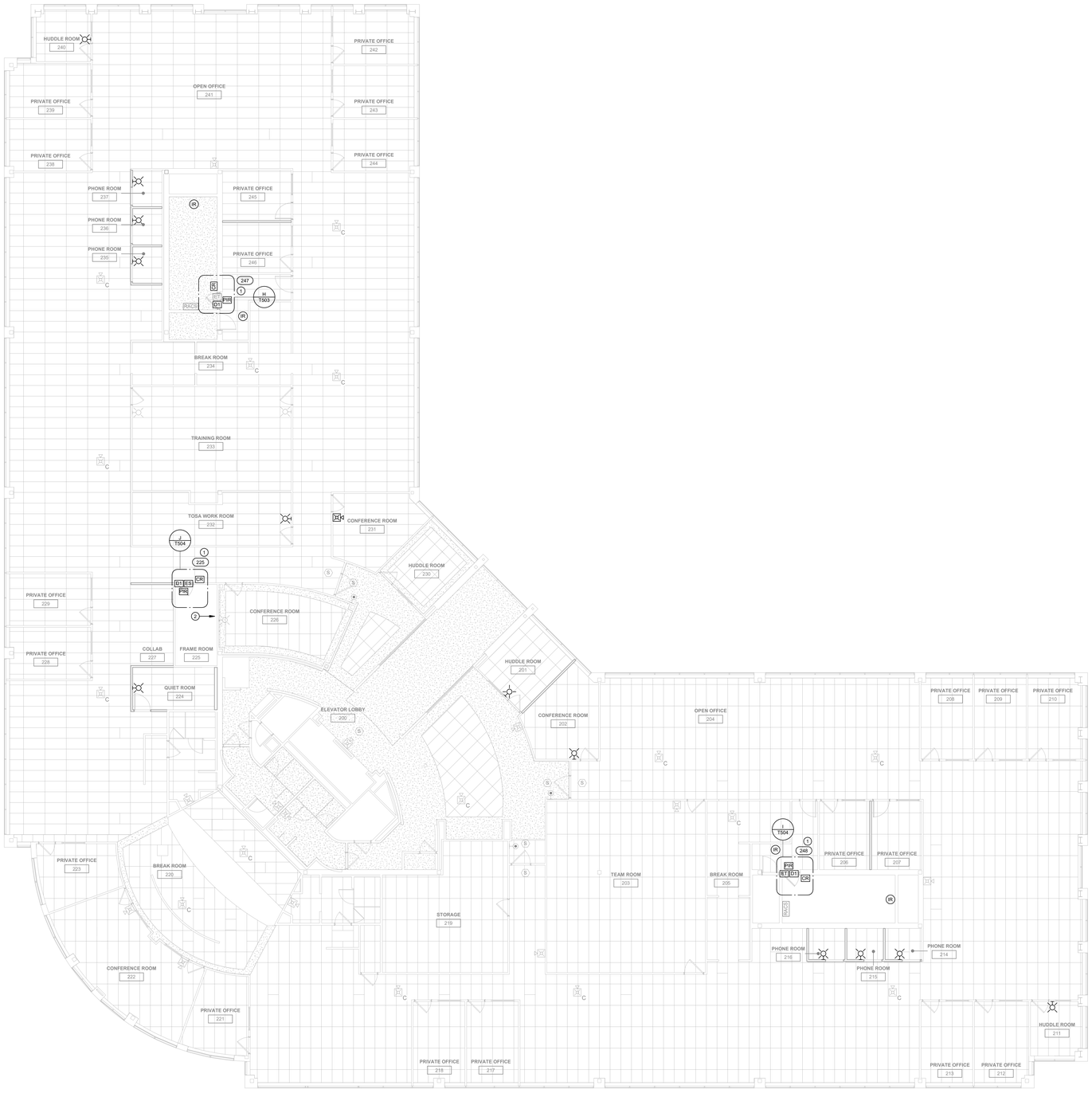
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

TECHNOLOGY
LIFE SAFETY &
SECURITY PLAN -
LEVEL 1

T301

2/18/2022 1:52:24 PM



TECHNOLOGY SAFETY & SECURITY CEILING PLAN - LEVEL 2 (1)
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

1 ACCESS CONTROL OPENING. REFER TO THE ACCESS CONTROL DETAILS FOR ROUGH-IN, WIRING AND DEVICE REQUIREMENTS.

2 LOCATION OF ACCESS CONTROL AND INTRUSION DETECTION HEAD END. REFER TO THE ENLARGED PLANS AND DETAILS FOR ADDITIONAL INFORMATION.

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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

TECHNOLOGY LIFE SAFETY & SECURITY PLAN - LEVEL 2

T302

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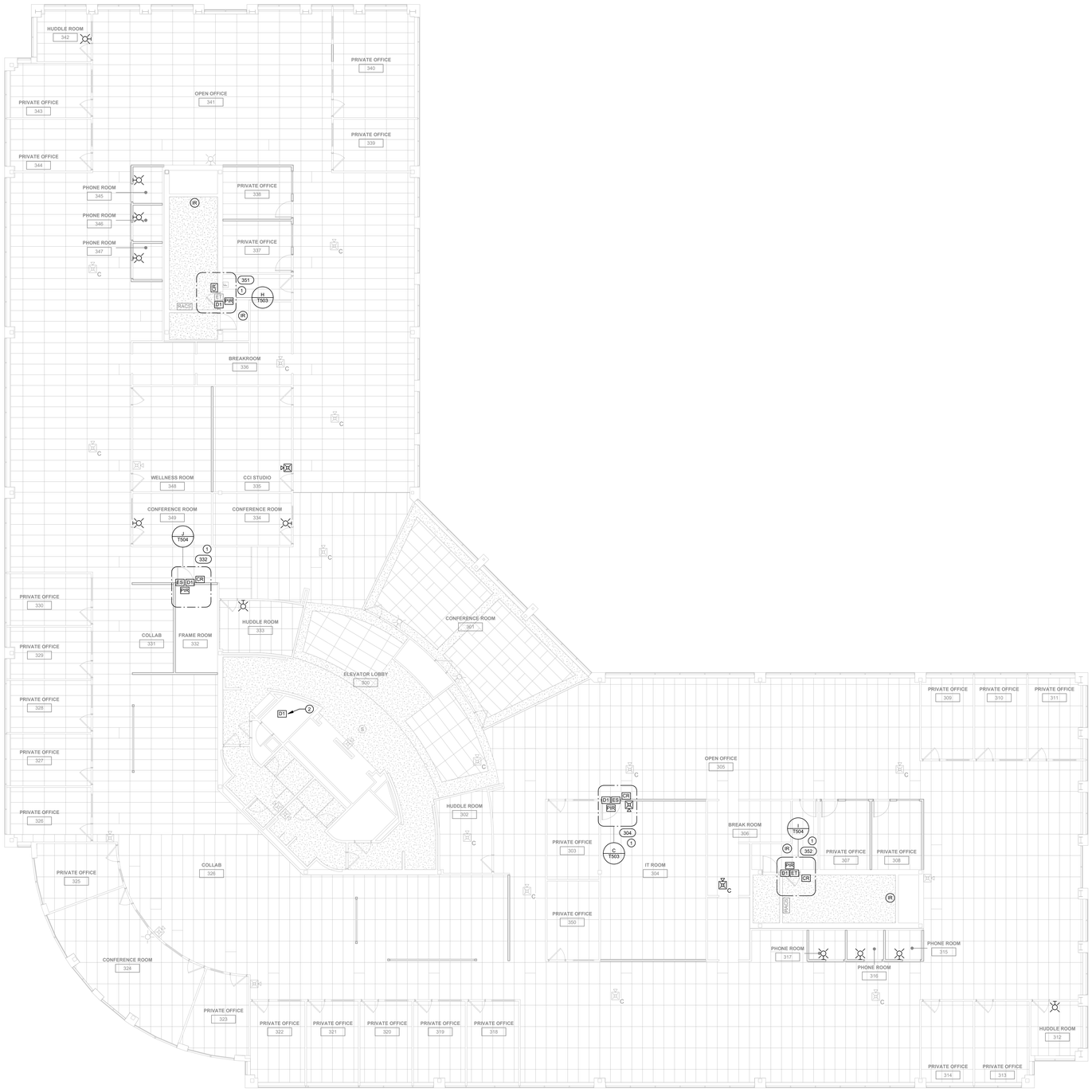

TECHNOLOGY SAFETY & SECURITY CEILING PLAN - LEVEL 3 (1)
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

1 ACCESS CONTROL OPENING. REFER TO THE ACCESS CONTROL DETAILS FOR ROUGH-IN, WIRING AND DEVICE REQUIREMENTS.

2 APPROXIMATE LOCATION OF ROOF HATCH FOR ROOF ACCESS. PROVIDE A SURFACE MOUNTED POSITION SWITCH TO MONITOR ITS POSITION. INTERFACE THIS WIRING WITH THE INTRUSION DETECTION SYSTEM.

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TECHNOLOGY LIFE SAFETY & SECURITY PLAN - LEVEL 3

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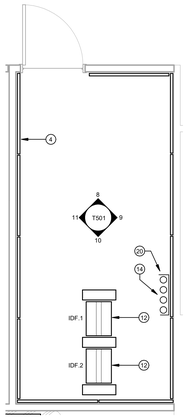
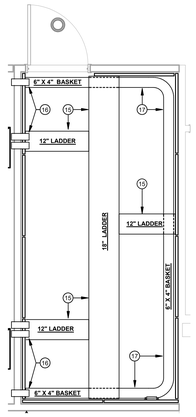
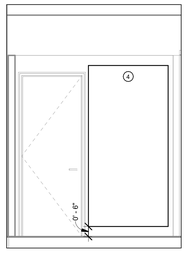


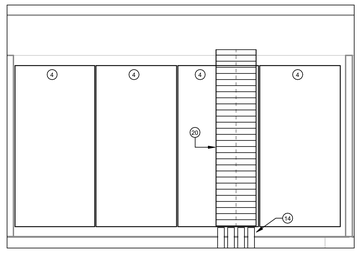
4 ENLARGED FLOOR PLAN - FRAME ROOM 332
3/8" = 1'-0"



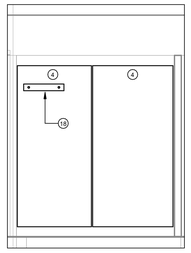
5 ENLARGED ROOM PLAN - FRAME ROOM 332
3/8" = 1'-0"



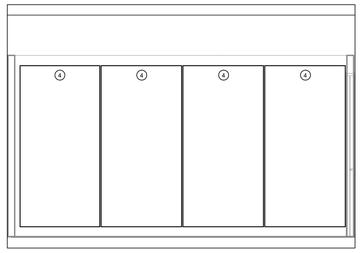
8 ELEVATION - FRAME ROOM 332 NORTH WALL
3/8" = 1'-0"



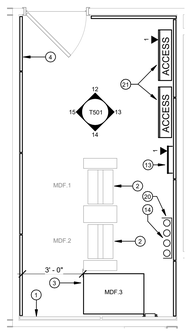
9 ELEVATION - FRAME ROOM 332 EAST WALL
3/8" = 1'-0"



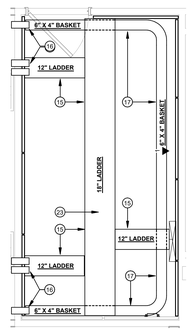
10 ELEVATION - FRAME ROOM 332 SOUTH WALL
3/8" = 1'-0"



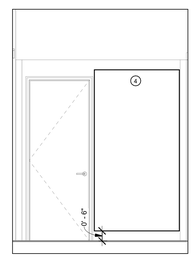
11 ELEVATION - FRAME ROOM 332 WEST WALL
3/8" = 1'-0"



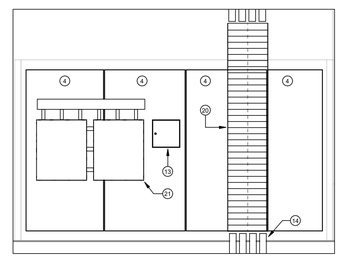
1 ENLARGED FLOOR PLAN - FRAME ROOM 225
3/8" = 1'-0"



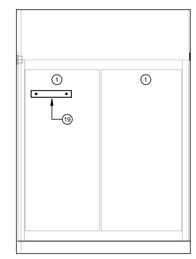
2 ENLARGED ROOM PLAN - FRAME ROOM 225
3/8" = 1'-0"



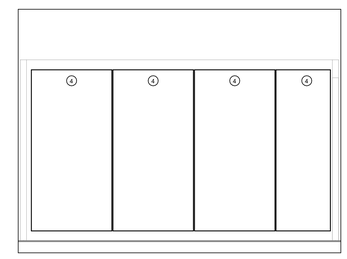
12 ELEVATION - FRAME ROOM 225 NORTH WALL
3/8" = 1'-0"



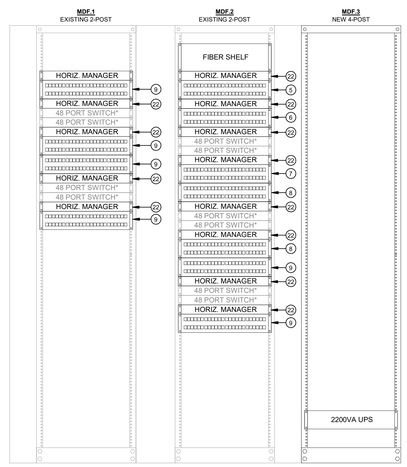
13 ELEVATION - FRAME ROOM 225 EAST WALL
3/8" = 1'-0"



14 ELEVATION - FRAME ROOM 225 SOUTH WALL
3/8" = 1'-0"



15 ELEVATION - FRAME ROOM 225 WEST WALL
3/8" = 1'-0"



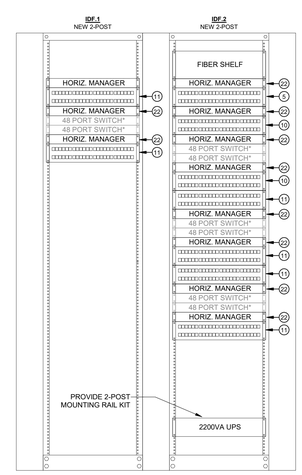
NEW RACK SCHEDULE - MDF.3

IDENT.	MDF.3
MANUF.	TRIPP LITE
MODEL	SR4POST
MOUNT	FLOOR ANCHORED
HEIGHT	84.00" (45U)
WIDTH	20.2"
DEPTH	36.00"(MAX ADJUSTABLE)
HOLES	M6 CAGE NUTS
POWER	EATON POWER WARE 5PX2200RTN
COLOR	BLACK
MGMT.	EXISTING TO BE REUSED

NOTE:
COORDINATE FINAL EQUIPMENT LAYOUT WITH OWNER PRIOR TO INSTALLATION

* INDICATES OWNER PROVIDED EQUIPMENT.

3 RACK DIAGRAMS - FRAME ROOM 225
NOT TO SCALE



NEW RACK SCHEDULE - IDF.1 AND IDF.2

IDENT.	IDF.1 AND IDF.2
MANUF.	TRIPP LITE
MODEL	SR2POST
MOUNT	FLOOR ANCHORED
HEIGHT	84.00" (45U)
WIDTH	20.2"
DEPTH	36.00"(MAX ADJUSTABLE)
HOLES	M6 CAGE NUTS
POWER	EATON POWER WARE 5PX2200RTN
COLOR	BLACK
VERT. MGMT.	CHATSWORTH 30095-B03

NOTE:
COORDINATE FINAL EQUIPMENT LAYOUT WITH OWNER PRIOR TO INSTALLATION

* INDICATES OWNER PROVIDED EQUIPMENT.

6 RACK DIAGRAMS - FRAME ROOM 332
NOT TO SCALE

GENERAL NOTES:

A. DETAILS ILLUSTRATED HERE ARE FOR BID PURPOSES. AWARDED CONTRACTOR SHALL COORDINATE THE ROOM AND RACK LAYOUT WITH THE DESIGN TEAM AND OWNER PRIOR TO INSTALLATION.

B. BIDDING CONTRACTOR FOR THE TELECOMMUNICATIONS CABLING INFRASTRUCTURE SHALL BE MANUFACTURER CERTIFIED AND CAPABLE OF PROVIDING THE 25 YEAR WARRANTY ON THE INSTALLATION.

C. LABELING SCHEME FOR BOTH PATCH PANELS AND WORK AREA OUTLETS SHALL FOLLOW THE BEAVERTON COMMUNITY SCHOOL DISTRICT SCHEME.

D. PROVIDE NEATLY MANAGED BUNDLES OF ALL EXPOSED SPECIAL SYSTEMS CABLING INSIDE THE TELECOMMUNICATIONS ROOMS. UTILIZE VELCRO STRAPS SUPPORTING THE BUNDLES EVERY 5 FEET. ZIP TIES SHALL NOT BE ACCEPTED.

E. PROVIDE A FINAL CLEANING OF THE ROOM AND EQUIPMENT RACKS TO KEEP THEM FREE FROM DUST, DIRT AND DEBRIS PRIOR TO ACTIVE EQUIPMENT INSTALLATION.

F. ALL FIBER AND COPPER PATCH CABLES SHALL BE PROVIDED AND INSTALLED BY THE BEAVERTON COMMUNITY SCHOOL DISTRICT.
EXCEPTION: WIRELESS ACCESS POINT PATCH CABLES SHALL BE PROVIDED BY THE OWNER BUT INSTALLED BY THE AWARDED CONTRACTOR ALONG WITH THE ACCESS POINT.

KEYNOTES (#)

1 EXISTING AC GRADE PLYWOOD TO REMAIN.
2 EXISTING CHATSWORTH 2-POST RACKS AND VERTICAL CABLE MANAGERS TO BE RE-USED. RE-ANCHOR THE 2-POST RACKS TO ACCOMMODATE THE NEW 4-POST RACK AS ILLUSTRATED.
3 PROVIDE NEW 4-POST RACK AND ANCHOR INTO POSITION. COORDINATE THE ADJUSTABLE DEPTH WITH THE BEAVERTON SCHOOL DISTRICT PRIOR TO INSTALLING.
4 PROVIDE 4' X 8' SHEETS OF 3/4" AC GRADE PLYWOOD AND LINE ALL WALLS AS ILLUSTRATED.
5 2U 48-PORT MODULAR PATCH PANEL SERVING COPPER TIES TO OTHER CLOSETS AND SERVICE PROVIDER TIE.
6 2U 48-PORT MODULAR PATCH PANEL SERVING WIRELESS ACCESS POINTS ON LEVEL 1.
7 2U 48-PORT MODULAR PATCH PANEL SERVING WIRELESS ACCESS POINTS ON LEVEL 2.
8 2U 48-PORT MODULAR PATCH PANEL SERVING ALL OTHER HORIZONTAL CABLING ON LEVEL 1.
9 2U 48-PORT MODULAR PATCH PANEL SERVING ALL OTHER HORIZONTAL CABLING ON LEVEL 2.
10 2U 48-PORT MODULAR PATCH PANEL SERVING WIRELESS ACCESS POINTS ON LEVEL 3.
11 2U 48-PORT MODULAR PATCH PANEL SERVING ALL OTHER HORIZONTAL CABLING ON LEVEL 3.
12 PROVIDE NEW 2-POST FLOOR-ANCHORED RACK AND ASSOCIATED DOUBLE-SIDED VERTICAL CABLE MANAGERS.
13 PROVIDE THE BOSCH D9412GV4 INTRUSION DETECTION PANEL AND ASSOCIATED ENCLOSURE. PROVIDE REQUIRED POWER SUPPLY, BACKUP BATTERY AND ACCESSORIES FOR A FULLY FUNCTIONAL SYSTEM.
14 PROVIDE FOUR (4) 4" CONDUIT SLEEVE FLOOR PENETRATIONS FROM THIS FRAME ROOM DOWN TO THE FLOOR BELOW. UTILIZE THESE PATHWAYS FOR TELECOMMUNICATIONS CABLING AND ALL OTHER SPECIAL SYSTEMS.
15 PROVIDE CABLE RUNWAY (LADDER) AS ILLUSTRATED HERE TO SERVE TELECOMMUNICATIONS AND DATA CABLING. SECURE LADDER TO THE RACKS AND PROVIDE J-BOLTS AND ASSOCIATED ACCESSORIES AND HARDWARE TO INSTALL RUNWAY PER MANUFACTURER'S RECOMMENDATIONS.
16 PROVIDE THREE (3) 4" EZ-PATH SERIES 44 SLEEVES. TWO SHALL BE RESERVED FOR TELECOMMUNICATIONS VOICE AND DATA CABLING WITH THE OTHER SERVING ALL OTHER SPECIAL SYSTEMS.
17 PROVIDE A SEPARATE CABLE TRAY PATHWAY FOR INTRUSION DETECTION AND ACCESS CONTROL AS ILLUSTRATED. UTILIZE WIRE BASKET STYLE TRAY FOR THIS PATHWAY.
18 PROVIDE A SECONDARY BONDING BUSBAR MOUNTED JUST BELOW THE CABLE TRAY. PROVIDE GROUNDING AND BONDING CONNECTIVITY AS DEFINED IN SPECIFICATION SECTION 27 0526.
19 RE-INSTALL THE EXISTING SECONDARY BONDING BUSBAR MOUNTED BELOW THE CABLE TRAY. PROVIDE GROUNDING AND BONDING CONNECTIVITY AS DEFINED IN SPECIFICATION SECTION 27 0526.
20 PROVIDE A 24" X 2" WIRE BASKET TRAY AND WALL MOUNT IT TO MANAGE AND SUPPORT INCOMING AND OUTGOING INFRASTRUCTURE.
21 PROVIDE ALTRONIX TROVE SERIES ENCLOSURE TO HOUSE ALL ASSOCIATED LENEL INTELLIGENT SYSTEM CONTROLLERS AND READER INTERFACE BOARDS. ENSURE POWER SUPPLY OPTIONS ARE COORDINATED WITH THE PLANNED FIELD DEVICES AND BATTERY BACKUP IS PROVIDED.
22 PROVIDE 1U HORIZONTAL WIRE MANAGER EQUAL TO LEVITON 49253-LPM.
23 PROVIDE CABLE DROPOUTS TO LADDER RUNWAY FOR EACH LOCATION THAT CABLING EXITS THE RUNWAY.

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PROJECT: 21019
DATE: 02.18.2022

TECHNOLOGY DETAILS

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GROUNDING AND BONDING RISER DIAGRAM NOTES:

A. PROVIDE ALL COMMUNICATIONS GROUNDING AND BONDING CONNECTIVITY AS OUTLINED IN SPECIFICATION SECTION 27 0526.

B. SIZE ALL CONDUCTORS PER NEC.

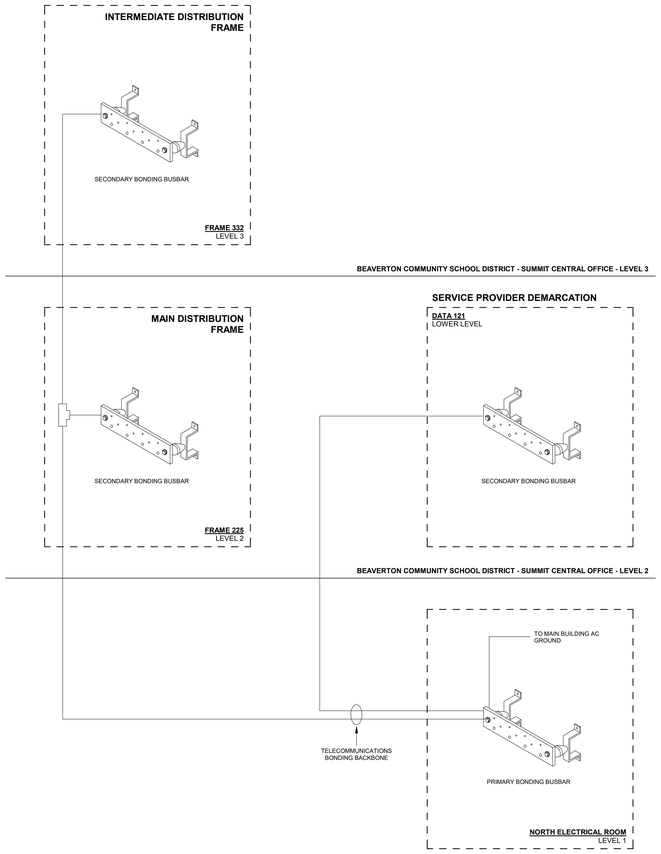
COMMUNICATIONS RISER DIAGRAM NOTES:

A. ILLUSTRATION IS INTENDED TO COMMUNICATE MAJOR BACKBONE AND TYPICAL HORIZONTAL CABLING REQUIREMENTS. IT IS NOT EXHAUSTIVE FOR ALL REQUIRED PROJECT CONNECTIVITY.

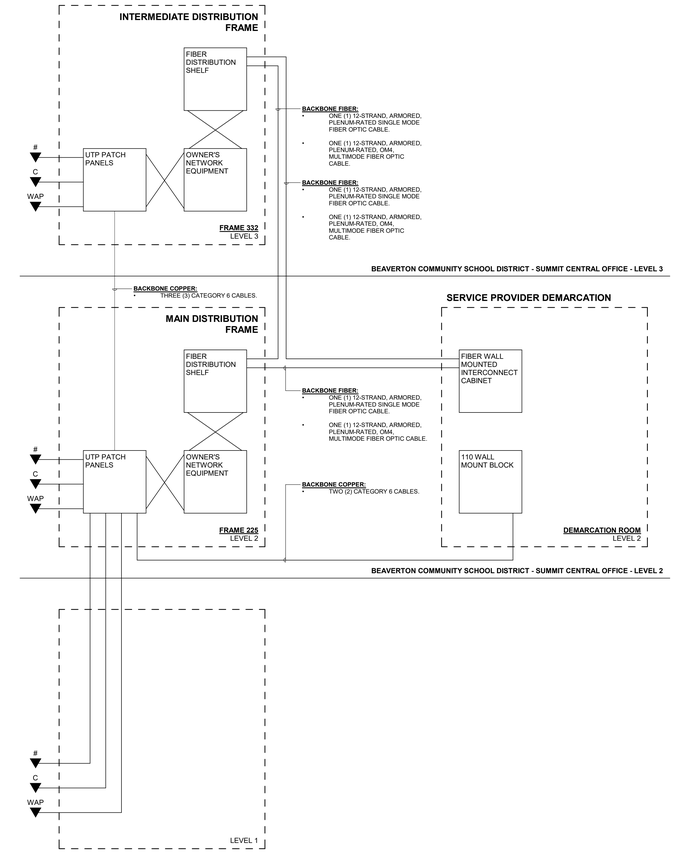
B. COORDINATE ALL PATHWAYS CLOSELY WITH THE ELECTRICAL CONTRACTOR. ENSURE EACH CONDUIT IS PROVIDED A PULL STRING AND/OR MULETAPE.

SYMBOL LEGEND

#	CATEGORY 6, UNSHIELDED TWISTED-PAIR - BLUE CABLE (PROVIDE NUMBER OF CABLES DEFINED BY '#' AT EACH LOCATION)
C	CATEGORY 6, UNSHIELDED TWISTED-PAIR - BLUE CABLE (ONE CABLE) - SERVING OWNER PROVIDED CAMERA SYSTEM.
WAP	CATEGORY 6A, UNSHIELDED TWISTED-PAIR - WHITE CABLE (TWO CABLES)
TV	RG-6, QUAD SHIELDED HORIZONTAL COAXIAL CABLE



3 COMMUNICATIONS GROUNDING AND BONDING RISER DIAGRAM
NOT TO SCALE



1 COMMUNICATIONS RISER DIAGRAM
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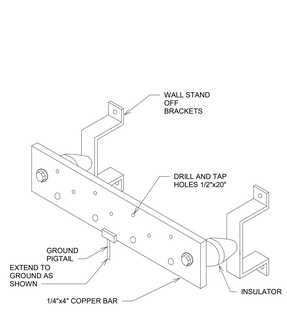
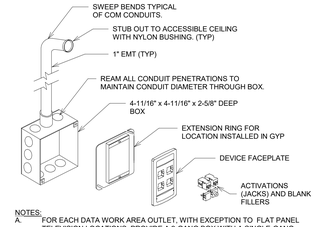


4 GROUND BAR
1/8" = 1'-0"

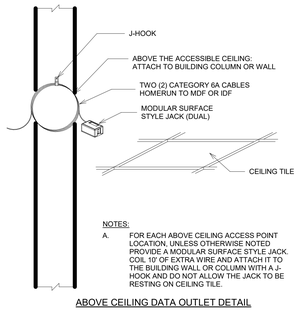


NOTES:

A. FOR EACH DATA WORK AREA OUTLET, WITH EXCEPTION TO FLAT PANEL TELEVISION LOCATIONS, PROVIDE A 2-GANG BOX WITH A SINGLE-GANG PLASTER-RING.

B. INSTALL ONE (1) 1" CONDUIT STUBBED OUT TO THE ABOVE ACCESSIBLE CEILING IN THE SAME ROOM UNLESS OTHERWISE NOTED. IF THE ROOM DOES NOT HAVE A LAY-IN GRID CEILING, ROUTE CONDUITS TO ABOVE THE NEAREST ACCESSIBLE CEILING SPACE. PROVIDE NYLON BUSHINGS ON CONDUIT ENDS TO PROTECT CABLING.

WALL MOUNTED DATA OUTLET DETAIL



NOTES:

A. FOR EACH ABOVE CEILING ACCESS POINT LOCATION, UNLESS OTHERWISE NOTED PROVIDE A MODULAR SURFACE STYLE JACK. COIL 10' OF EXTRA WIRE AND ATTACH IT TO THE BUILDING WALL OR COLUMN WITH A J-HOOK AND DO NOT ALLOW THE JACK TO BE RESTING ON CEILING TILE.

ABOVE CEILING DATA OUTLET DETAIL

2 WORK AREA OUTLET AND WIRELESS ACCESS POINT CABLING DETAILS
NOT TO SCALE

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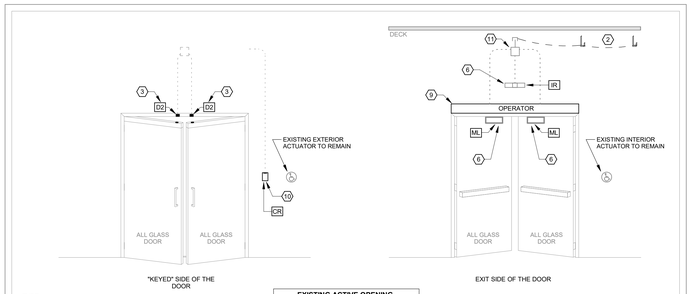
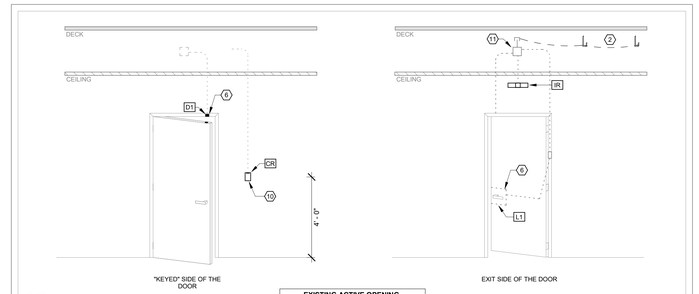


TYPE A

EXISTING ACTIVE OPENING. MIGRATE TO LENEL.

NOTE: DEVICES INCLUDING CARD READERS AND AUTOMATIC OPERATOR PUSH BUTTONS MAY BE LOCATED ON A DIFFERENT WALL. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR WHICH SIDE THE COMPONENTS ARE LOCATED.

A. Opening Type A
NOT TO SCALE

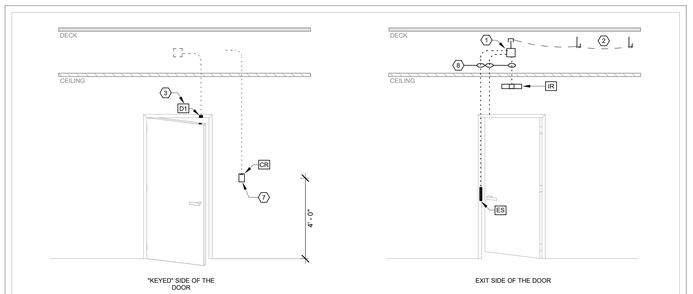


TYPE B

EXISTING ACTIVE OPENING. MIGRATE TO LENEL.

NOTE: DEVICES INCLUDING CARD READERS AND AUTOMATIC OPERATOR PUSH BUTTONS MAY BE LOCATED ON A DIFFERENT WALL. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR WHICH SIDE THE COMPONENTS ARE LOCATED.

B. Opening Type B
NOT TO SCALE

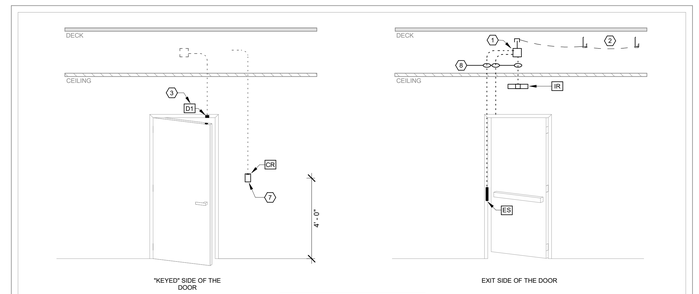


TYPE C

NEWLY ACTIVATED OPENING

NOTE: DEVICES INCLUDING CARD READERS AND AUTOMATIC OPERATOR PUSH BUTTONS MAY BE LOCATED ON A DIFFERENT WALL. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR WHICH SIDE THE COMPONENTS ARE LOCATED.

C. Opening Type C
NOT TO SCALE

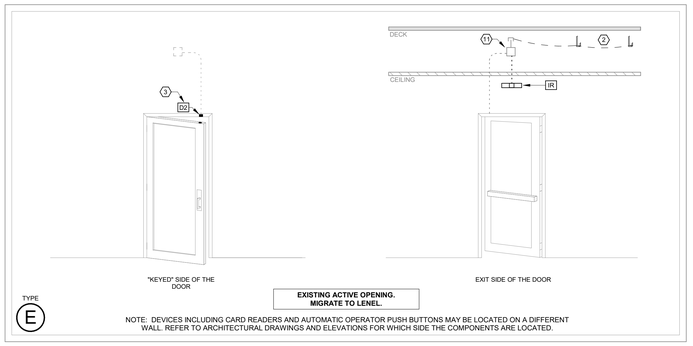


TYPE D

NEWLY ACTIVATED OPENING

NOTE: DEVICES INCLUDING CARD READERS AND AUTOMATIC OPERATOR PUSH BUTTONS MAY BE LOCATED ON A DIFFERENT WALL. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR WHICH SIDE THE COMPONENTS ARE LOCATED.

D. Opening Type D
NOT TO SCALE

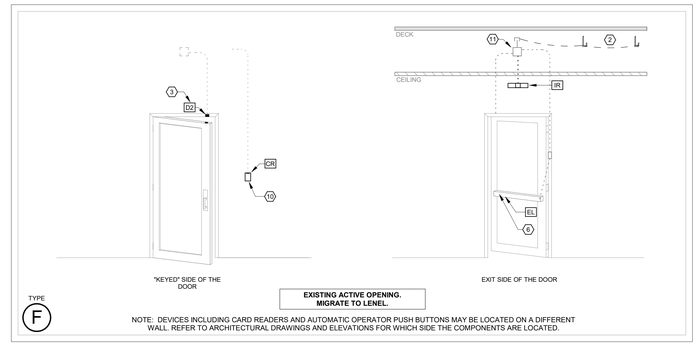


TYPE E

EXISTING ACTIVE OPENING. MIGRATE TO LENEL.

NOTE: DEVICES INCLUDING CARD READERS AND AUTOMATIC OPERATOR PUSH BUTTONS MAY BE LOCATED ON A DIFFERENT WALL. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR WHICH SIDE THE COMPONENTS ARE LOCATED.

E. Opening Type E
NOT TO SCALE

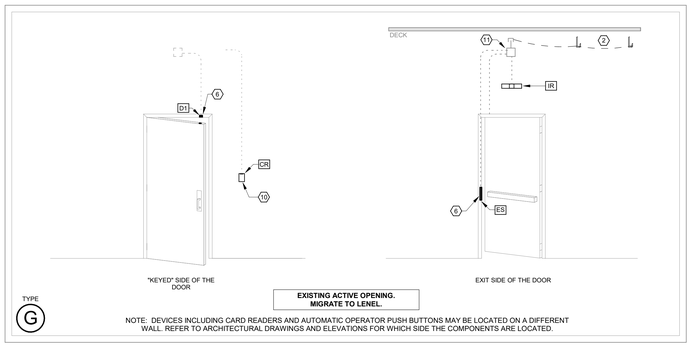


TYPE F

EXISTING ACTIVE OPENING. MIGRATE TO LENEL.

NOTE: DEVICES INCLUDING CARD READERS AND AUTOMATIC OPERATOR PUSH BUTTONS MAY BE LOCATED ON A DIFFERENT WALL. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR WHICH SIDE THE COMPONENTS ARE LOCATED.

F. Opening Type F
NOT TO SCALE

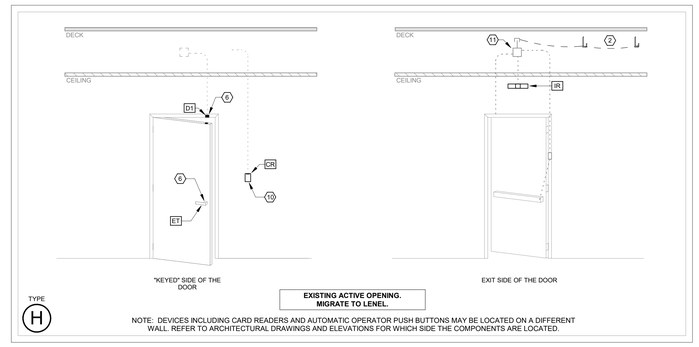


TYPE G

EXISTING ACTIVE OPENING. MIGRATE TO LENEL.

NOTE: DEVICES INCLUDING CARD READERS AND AUTOMATIC OPERATOR PUSH BUTTONS MAY BE LOCATED ON A DIFFERENT WALL. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR WHICH SIDE THE COMPONENTS ARE LOCATED.

G. Opening Type G
NOT TO SCALE



TYPE H

EXISTING ACTIVE OPENING. MIGRATE TO LENEL.

NOTE: DEVICES INCLUDING CARD READERS AND AUTOMATIC OPERATOR PUSH BUTTONS MAY BE LOCATED ON A DIFFERENT WALL. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR WHICH SIDE THE COMPONENTS ARE LOCATED.

H. Opening Type H
NOT TO SCALE

GENERAL NOTES:

A. PROVIDE EXTENSION OF THE EXISTING LENEL ONGUARD SECURITY MANAGEMENT ACCESS CONTROL SYSTEM. DETAILS ILLUSTRATED HERE ARE DIAGRAMMATIC TO ILLUSTRATE PATHWAY, ROUGH-IN, DEVICE AND CABLING REQUIREMENTS. REVIEW SPECIFICATION SECTION 08 71 00 FOR ALL SPECIFIC ELEMENTS THAT ARE SCHEDULED AT EACH OPENING.

B. IT IS THE INTENT THAT PATHWAYS AND ROUGH-IN SERVING ACCESS CONTROL DEVICES SHALL BE RECESSED AND CONCEALED IN NEW OR FURRED OUT WALLS. EXPOSED CABLING SHALL NOT BE ACCEPTED. FOR ALL SURFACE PATHWAY NEEDS, ENSURE CONDUIT IS PAINTED TO MATCH FINISHES.

C. DETAILS NOT INTENDED TO ACCURATELY ILLUSTRATE CEILING TYPES, CEILING AND DECK HEIGHTS, DOOR SWING OR DOOR FINISHES. COORDINATE EACH OPENINGS SPECIFIC ROUGH-IN AND PATHWAY NEEDS WITH ARCHITECTURAL PLANS AND ELEVATIONS.

D. ALL CONDUIT SHALL BE PROVIDED A PULL STRING TO ALLOW EASE OF CABLE INSTALLATION.

KEYED REFERENCE NOTES:

1. ACCESS CONTROL JUNCTION BOX. PROVIDE ONE (1) 4-SQUARE BOX ABOVE THE NEAREST CONCEALED ACCESSIBLE CEILING SPACE. THIS BOX SHALL BE USED AS A JUNCTION POINT FOR ALL DOOR DEVICE WIRING.
2. PROVIDE NEW SECURITY MANAGEMENT SYSTEM CABLING BACK TO THE HEAD END/CONTROL CABINET USING ITS OWN DEDICATED PATHWAYS. PROVIDE J-HOOKS TO SUPPORT THIS INFRASTRUCTURE. ENSURE A COMPLETE COMPOSITE CABLE IS ROUTED TO EVERY OPENING TO GIVE THE OWNER FUTURE FLEXIBILITY.
3. PROVIDE FLUSH MOUNTED DOOR CONTACTS WITH A DOUBLE-POLE, DOUBLE-THROW CONFIGURATION. ONE SET OF CONTACTS SHALL BE RESERVED FOR THE ACCESS CONTROL SYSTEM WHILE THE OTHER SET SHALL BE UTULIZED FOR THE INTRUSION DETECTION SYSTEM.
4. THE SCHEDULED DOOR HARDWARE HOSTS BUILT-IN MOMENTARY SWITCHES TO INTERFACE THE REQUEST TO EXIT FUNCTION FOR ACCESS CONTROL.
5. ELECTRONIC POWER TRANSFER. PROVIDE A 1/2" PATHWAY TO THE FRAME TO SERVE THE LOCK AND REQUEST TO EXIT DEVICE.
6. EXISTING DEVICE TO REMAIN. RE-FEED WITH NEW ACCESS CONTROL CABLING FROM THE NEW LENEL HEADEND.
7. PROVIDE SINGLE GANG BOX AND CONDUIT PATHWAY FOR NEW HID CARD READER.
8. PROVIDE A 1/2" CONDUIT PATHWAY TO THE FRAME OR TO THE DEVICE ILLUSTRATED.
9. PROVIDE A PROGRAMMABLE RELAY LOGIC MODULE EQUAL TO CAMDEN CONTROLS CX-33 TO ASSIST IN SEQUENCING THE ELECTRIFIED DEVICES WITH THE AUTOMATIC DOOR OPERATOR. WHEN THE INTERIOR AUTOMATIC DOOR ACTUATOR IS PRESSED, THE DOOR HARDWARE SHALL UNLOCK AND THE OPERATOR SHALL OPEN THE DOOR. PROVIDE THE NECESSARY WIRING AND LOGIC CONTROL CONFIGURATION TO ACHIEVE FREE EGRESS.
10. REPLACE EXISTING CARD READER WITH NEW DISTRICT STANDARD HID CARD READER. RE-FEED WITH NEW ACCESS CONTROL CABLING FROM THE NEW LENEL HEADEND.
11. RE-USE ALL EXISTING PATHWAYS TO SERVE THE DEVICES ILLUSTRATED.

DEVICE AND CABLING LEGEND:

- AUTOMATIC OPERATOR ACTUATOR: REFER TO MANUFACTURERS RECOMMENDATIONS
- D1 — FLUSH-MOUNT DOOR POSITION SWITCH (SPST): 20 AWG / 4 CONDUCTOR
- D2 — FLUSH-MOUNT DOOR POSITION SWITCH (DPDT): 20 AWG / 4 CONDUCTOR
- LB — LATCHBOLT MONITOR: 20 AWG / 4 CONDUCTOR
- CP — COMBINATION CARD READER/PINPAD: 22 AWG / 6 CONDUCTOR (WIEGAND) **OR** 20 AWG / 4 CONDUCTOR (OSDP)
- CR — CARD READER: 22 AWG / 6 CONDUCTOR (WIEGAND) **OR** 20 AWG / 4 CONDUCTOR (OSDP)
- EL — ELECTRIFIED EXIT DEVICE: 16 AWG / 2 CONDUCTOR
- NL — NON-ELECTRIFIED EXIT DEVICE (MECHANICAL EXIT): NO WIRING NECESSARY
- RX — DEVICE CONTAINS REQUEST-TO-EXIT MOMENTARY CONTACTS: 20 AWG / 4 CONDUCTOR
- ES — ELECTRIFIED STRIKE: 18 AWG / 2 CONDUCTOR
- ET — ELECTRIFIED TRIM: 18 AWG / 2 CONDUCTOR
- L1 — ELECTRIFIED MORTISE LOCKSET: 18 AWG / 4 CONDUCTOR
- DE — DELAYED EGRESS EXIT DEVICE: 16 AWG / 4 CONDUCTOR
- PIR — REQUEST TO EXIT MOTION DETECTOR: 20 AWG / 4 CONDUCTOR

CABLING DEFINITIONS ARE BASED ON A TRADITIONAL WIRING APPROACH. BIDDING CONTRACTOR IS ENCOURAGED TO UTILIZE COMPOSITE CABLE AT OPENINGS REQUIRING MULTIPLE DEVICE CONNECTIONS. **COORDINATE WIRE GAUGE WITH VOLTAGE, AMPERAGE AND DISTANCE REQUIREMENTS.**

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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

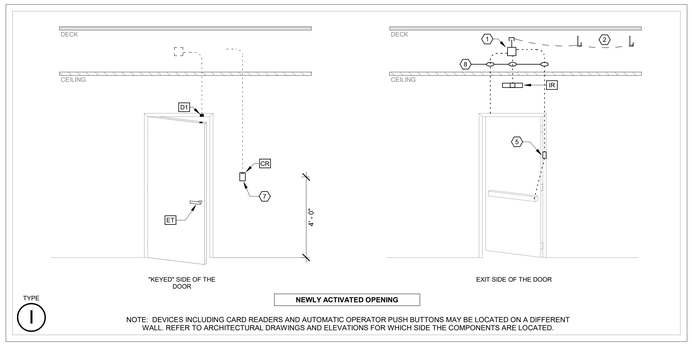
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

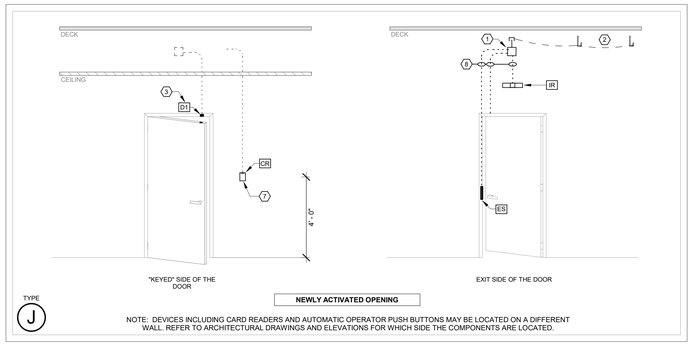
TECHNOLOGY DETAILS

T503

2/18/2022 1:52:35 PM



I Opening Type I
NOT TO SCALE



J Opening Type J
NOT TO SCALE

GENERAL NOTES:

A. PROVIDE EXTENSION OF THE EXISTING LENEL ONGUARD SECURITY MANAGEMENT ACCESS CONTROL SYSTEM. DETAILS ILLUSTRATED HERE ARE DIAGRAMMATIC TO ILLUSTRATE PATHWAY, ROUGH-IN, DEVICE AND CABLING REQUIREMENTS. REVIEW SPECIFICATION SECTION 08 71 00 FOR ALL SPECIFIC ELEMENTS THAT ARE SCHEDULED AT EACH OPENING.

B. IT IS THE INTENT THAT PATHWAYS AND ROUGH-IN SERVING ACCESS CONTROL DEVICES SHALL BE RECESSED AND CONCEALED IN NEW OR FURRED OUT WALLS. EXPOSED CABLING SHALL NOT BE ACCEPTED. FOR ALL SURFACE PATHWAY NEEDS, ENSURE CONDUIT IS PAINTED TO MATCH FINISHES.

C. DETAILS NOT INTENDED TO ACCURATELY ILLUSTRATE CEILING TYPES, CEILING AND DECK HEIGHTS, DOOR SWING OR DOOR FINISHES. COORDINATE EACH OPENINGS SPECIFIC ROUGH-IN AND PATHWAY NEEDS WITH ARCHITECTURAL PLANS AND ELEVATIONS.

D. ALL CONDUIT SHALL BE PROVIDED A PULL STRING TO ALLOW EASE OF CABLE INSTALLATION.

KEYED REFERENCE NOTES:

1. ACCESS CONTROL JUNCTION BOX. PROVIDE ONE (1) 4-SQUARE BOX ABOVE THE NEAREST CONCEALED ACCESSIBLE CEILING SPACE. THIS BOX SHALL BE USED AS A JUNCTION POINT FOR ALL DOOR DEVICE WIRING.
2. PROVIDE NEW SECURITY MANAGEMENT SYSTEM CABLING BACK TO THE HEAD END/CONTROL CABINET USING ITS OWN DEDICATED PATHWAYS. PROVIDE J-HOOKS TO SUPPORT THIS INFRASTRUCTURE. ENSURE A COMPLETE COMPOSITE CABLE IS ROUTED TO EVERY OPENING TO GIVE THE OWNER FUTURE FLEXIBILITY.
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4. THE SCHEDULED DOOR HARDWARE HOSTS BUILT-IN MOMENTARY SWITCHES TO INTERFACE THE REQUEST TO EXIT FUNCTION FOR ACCESS CONTROL.
5. ELECTRONIC POWER TRANSFER. PROVIDE A 1/2" PATHWAY TO THE FRAME TO SERVE THE LOCK AND REQUEST TO EXIT DEVICE.
6. EXISTING DEVICE TO REMAIN. RE-FEED WITH NEW ACCESS CONTROL CABLING FROM THE NEW LENEL HEADEND.
7. PROVIDE SINGLE GANG BOX AND CONDUIT PATHWAY FOR NEW HID CARD READER.
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11. RE-USE ALL EXISTING PATHWAYS TO SERVE THE DEVICES ILLUSTRATED.

DEVICE AND CABLING LEGEND:

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- CR — CARD READER: 22 AWG / 6 CONDUCTOR (WIEGAND) **OR** 20 AWG / 4 CONDUCTOR (OSDP)
- EL — ELECTRIFIED EXIT DEVICE: 16 AWG / 2 CONDUCTOR
- NL — NON-ELECTRIFIED EXIT DEVICE (MECHANICAL EXIT): NO WIRING NECESSARY
- RX — DEVICE CONTAINS REQUEST-TO-EXIT MOMENTARY CONTACTS: 20 AWG / 4 CONDUCTOR
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- ET — ELECTRIFIED TRIM: 18 AWG / 2 CONDUCTOR
- L1 — ELECTRIFIED MORTISE LOCKSET: 18 AWG / 4 CONDUCTOR
- DE — DELAYED EGRESS EXIT DEVICE: 16 AWG / 4 CONDUCTOR
- PIR — REQUEST TO EXIT MOTION DETECTOR: 20 AWG / 4 CONDUCTOR

CABLING DEFINITIONS ARE BASED ON A TRADITIONAL WIRING APPROACH. BIDDING CONTRACTOR IS ENCOURAGED TO UTILIZE COMPOSITE CABLE AT OPENINGS REQUIRING MULTIPLE DEVICE CONNECTIONS. **COORDINATE WIRE GAUGE WITH VOLTAGE, AMPERAGE AND DISTANCE REQUIREMENTS.**

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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

TECHNOLOGY DETAILS

T504

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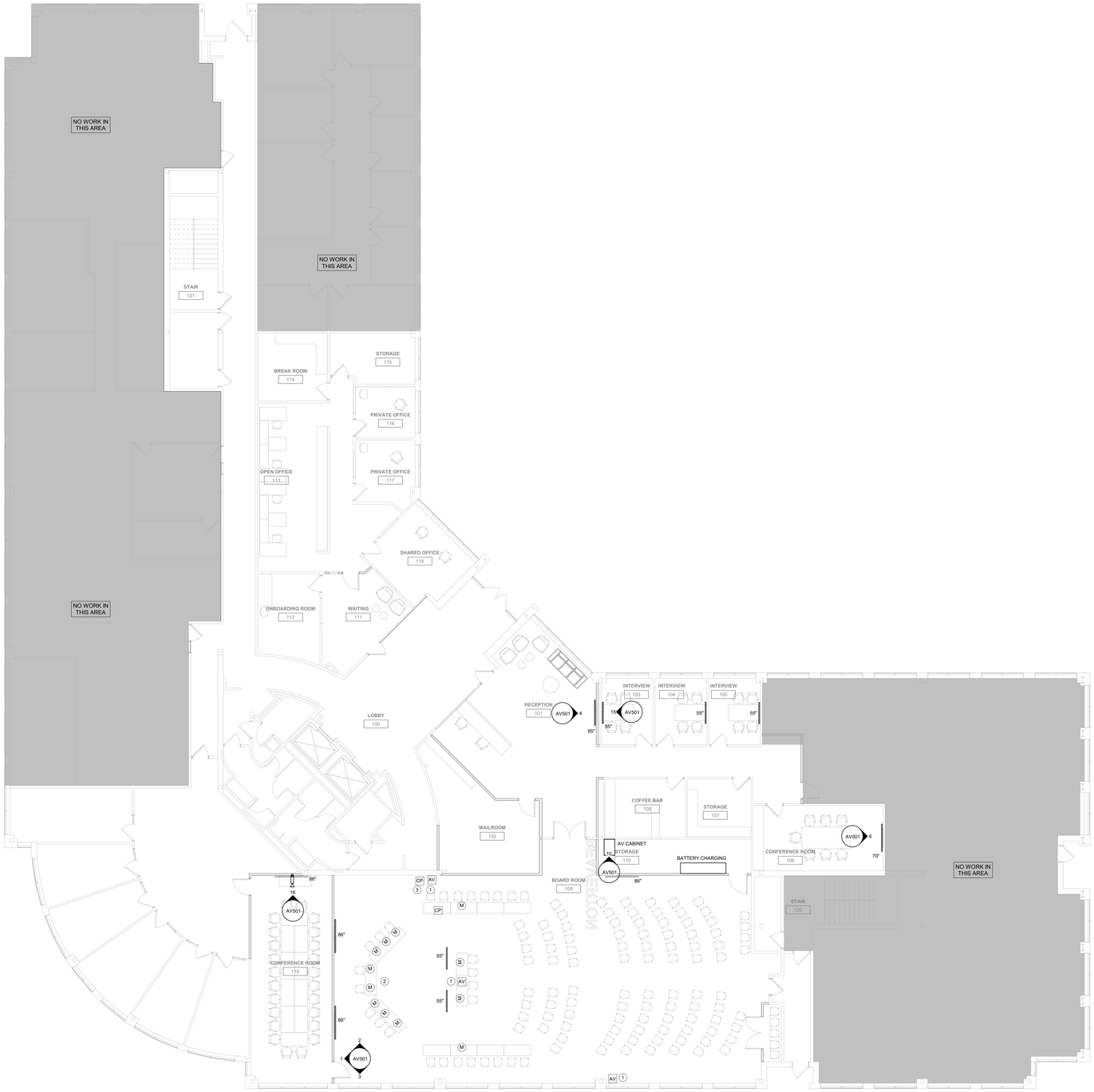

TECHNOLOGY AUDIO VISUAL PLAN - LEVEL 1 (1)
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

1. Wall or floor plate for AV connections. See elevations and electrical for more details
2. Wireless for all table microphones, no connection to floor box
3. AV wall control panel and AV wall connection panel to be beyond custom graphics on wall. Confirm J box placement with architect before installing.

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AUDIO VISUAL FLOOR PLAN - LEVEL 1

AV101

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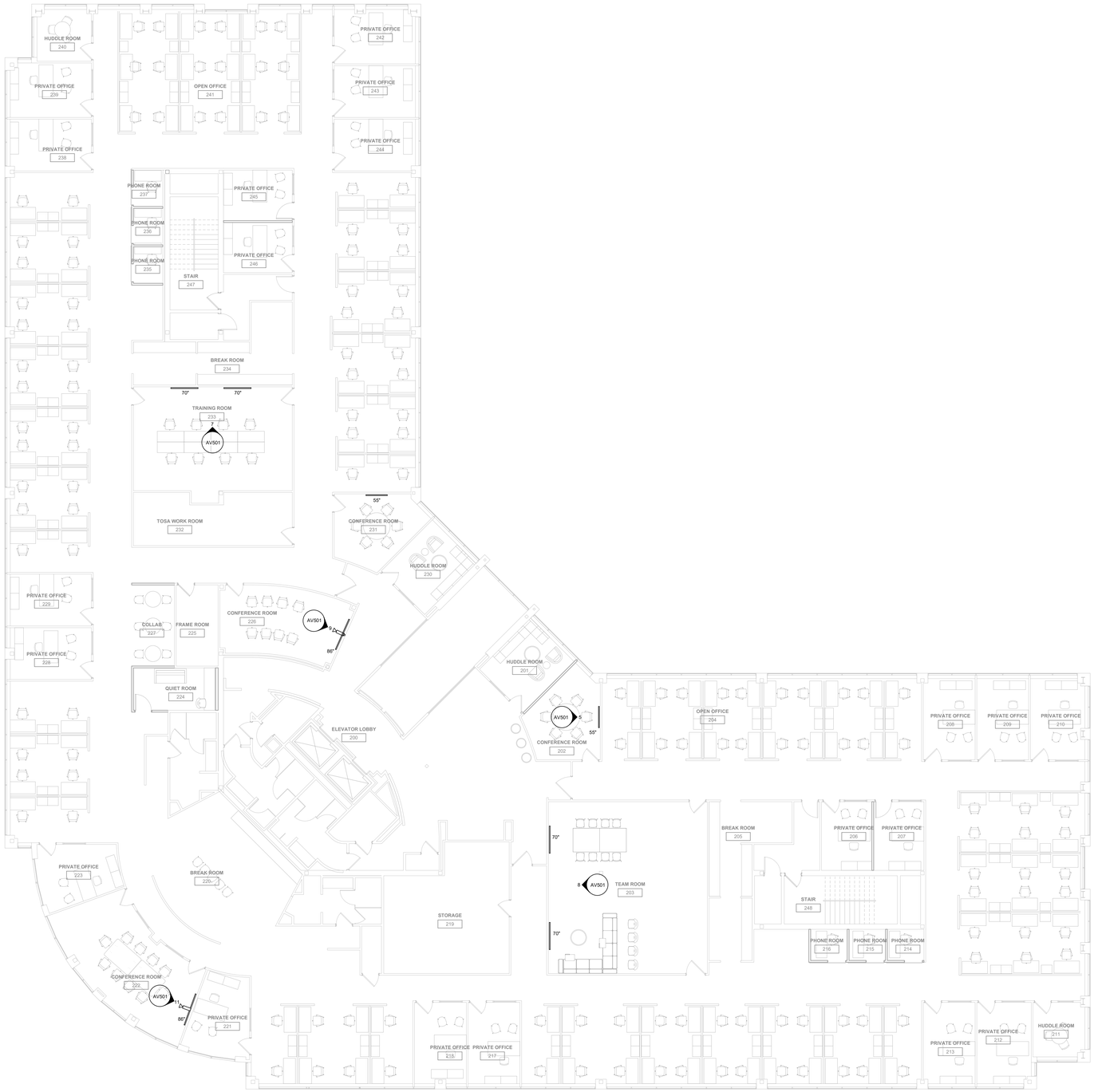

TECHNOLOGY AUDIO VISUAL PLAN - LEVEL 2 (1)

1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

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AUDIO VISUAL FLOOR PLAN - LEVEL 2

AV102

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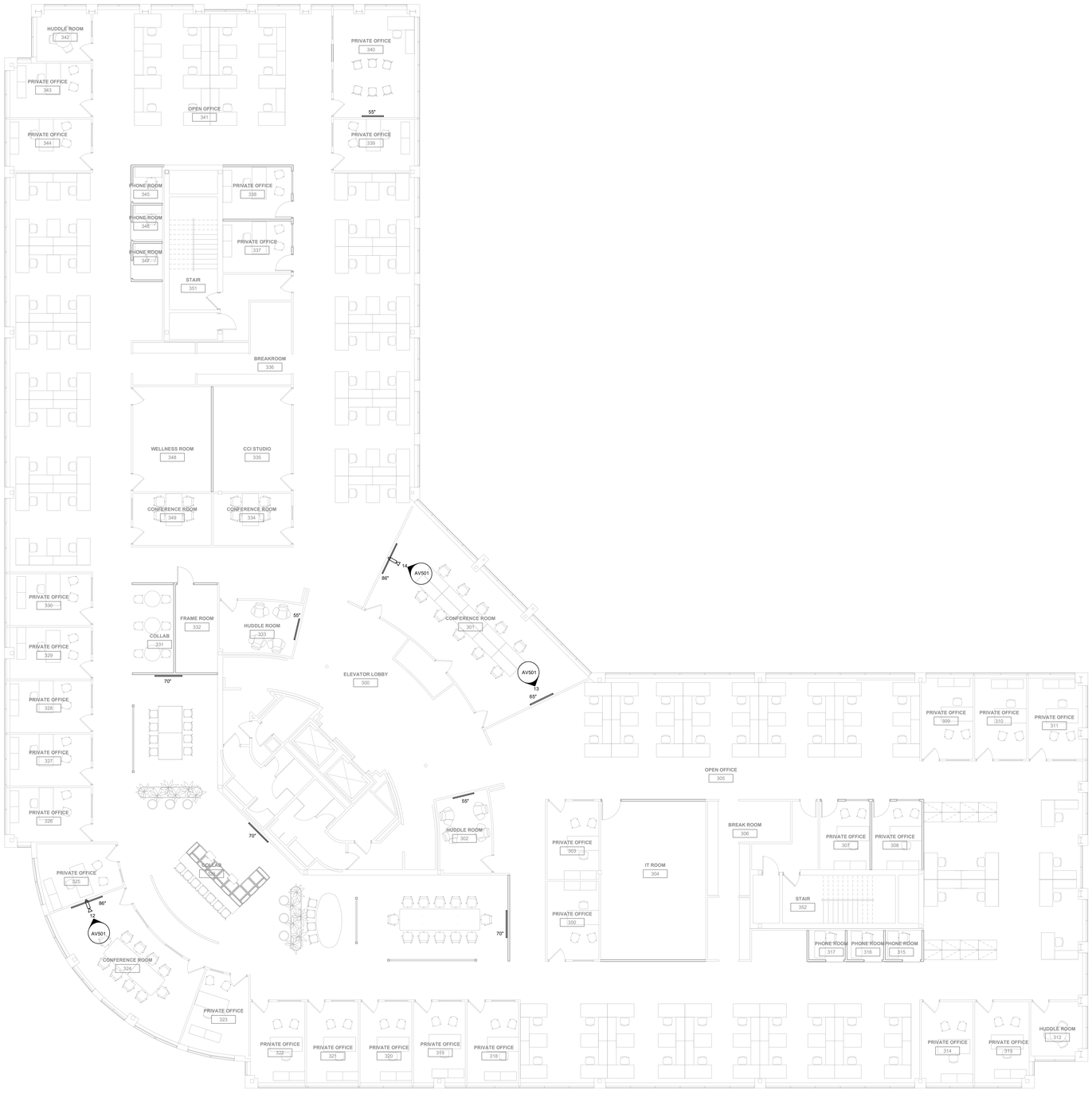

TECHNOLOGY AUDIO VISUAL PLAN - LEVEL 3 (1)
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

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PROJECT: 21019
DATE: 02.18.2022

AUDIO VISUAL FLOOR PLAN - LEVEL 3

AV103

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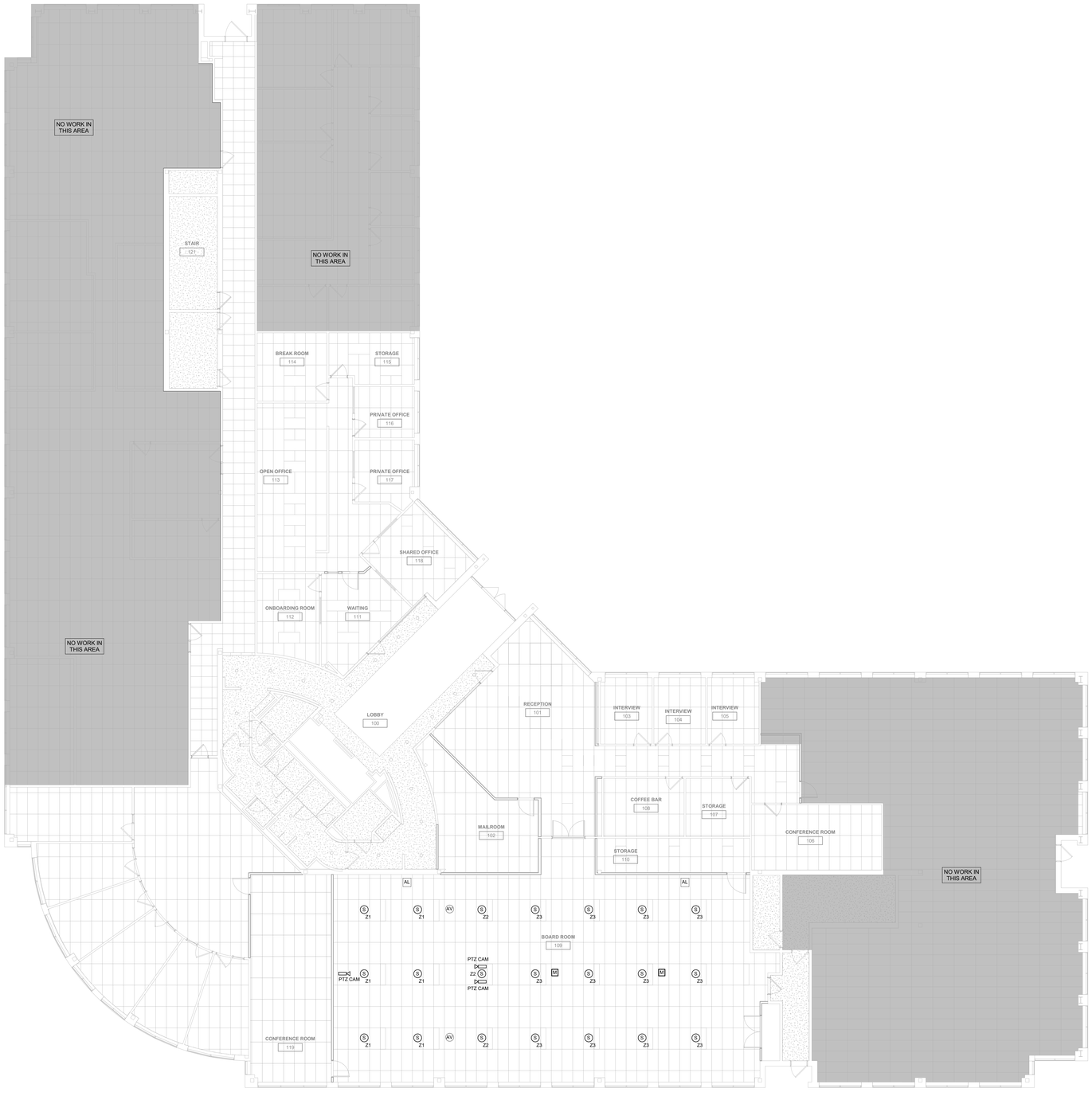

TECHNOLOGY AUDIO VISUAL CEILING PLAN - LEVEL 1 (1)

1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

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SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

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PROJECT: 21019
DATE: 02.18.2022

AUDIO VISUAL CEILING PLAN - LEVEL 1

AV201

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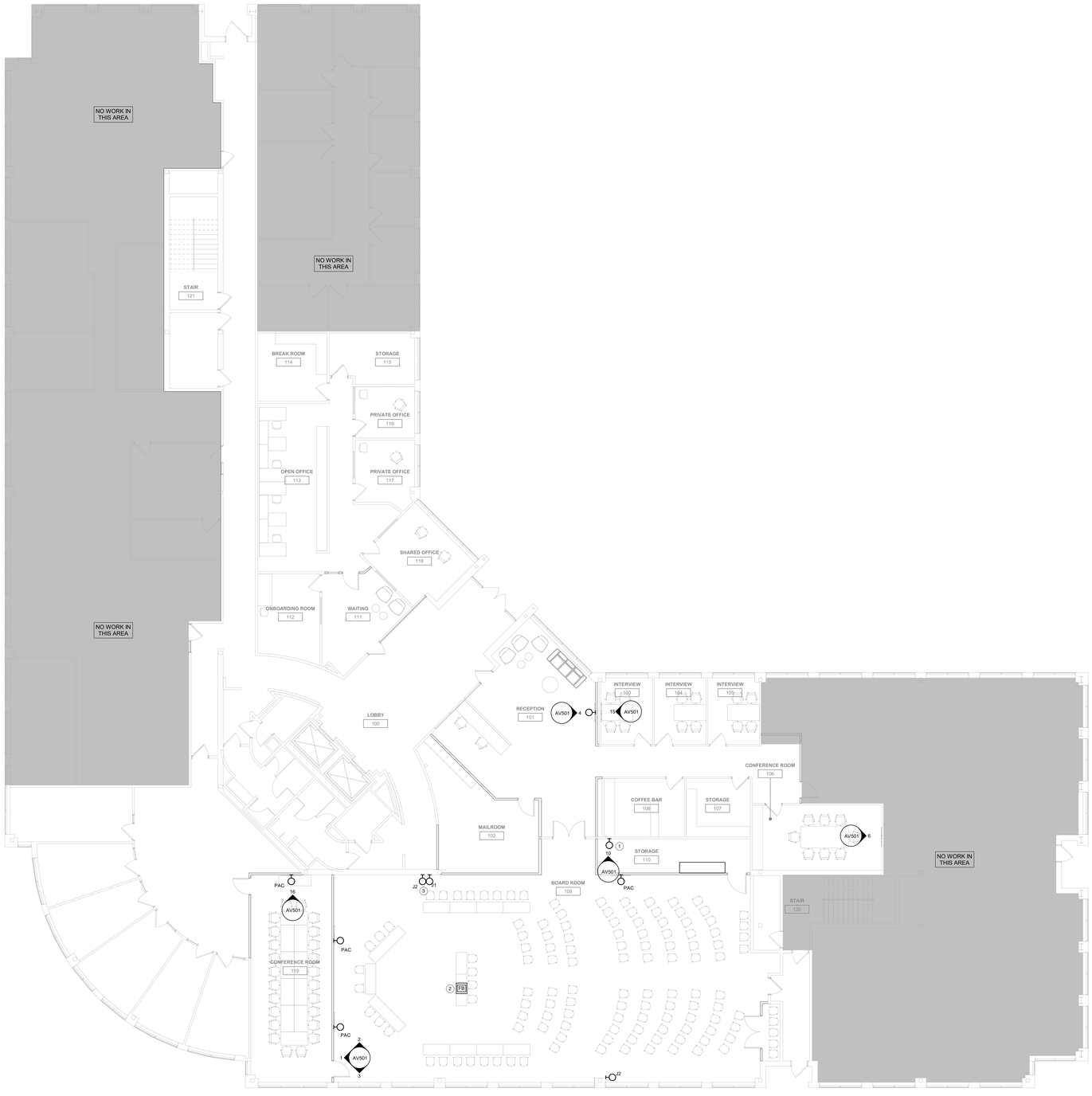

TECHNOLOGY AUDIO VISUAL ELECTRICAL PLAN - LEVEL 1 (1)

1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. SEE AV ELEVATION DRAWINGS FOR LOCATING AV J BOXES.

E. TELECOM AND POWER ARE SHOWN FOR REFERENCE ONLY. SEE TELECOM AND ELECTRICAL SETS FOR MORE INFORMATION.

KEYNOTES (#)

1. Wall or floor plate for AV connections. See elevations and electrical for more details
2. Wireless for all table microphones, no connection to floor box
3. AV wall control panel and AV wall connection panel to be beyond custom graphics on wall. Confirm J box placement with architect before installing.

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PROJECT: 21019
DATE: 02.18.2022

AUDIO VISUAL ELECTRICAL PLAN - LEVEL 1

AV301

2/18/2022 1:52:00 PM

TECHNOLOGY AUDIO VISUAL ELECTRICAL PLAN - LEVEL 2 (1)

1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

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97209

BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

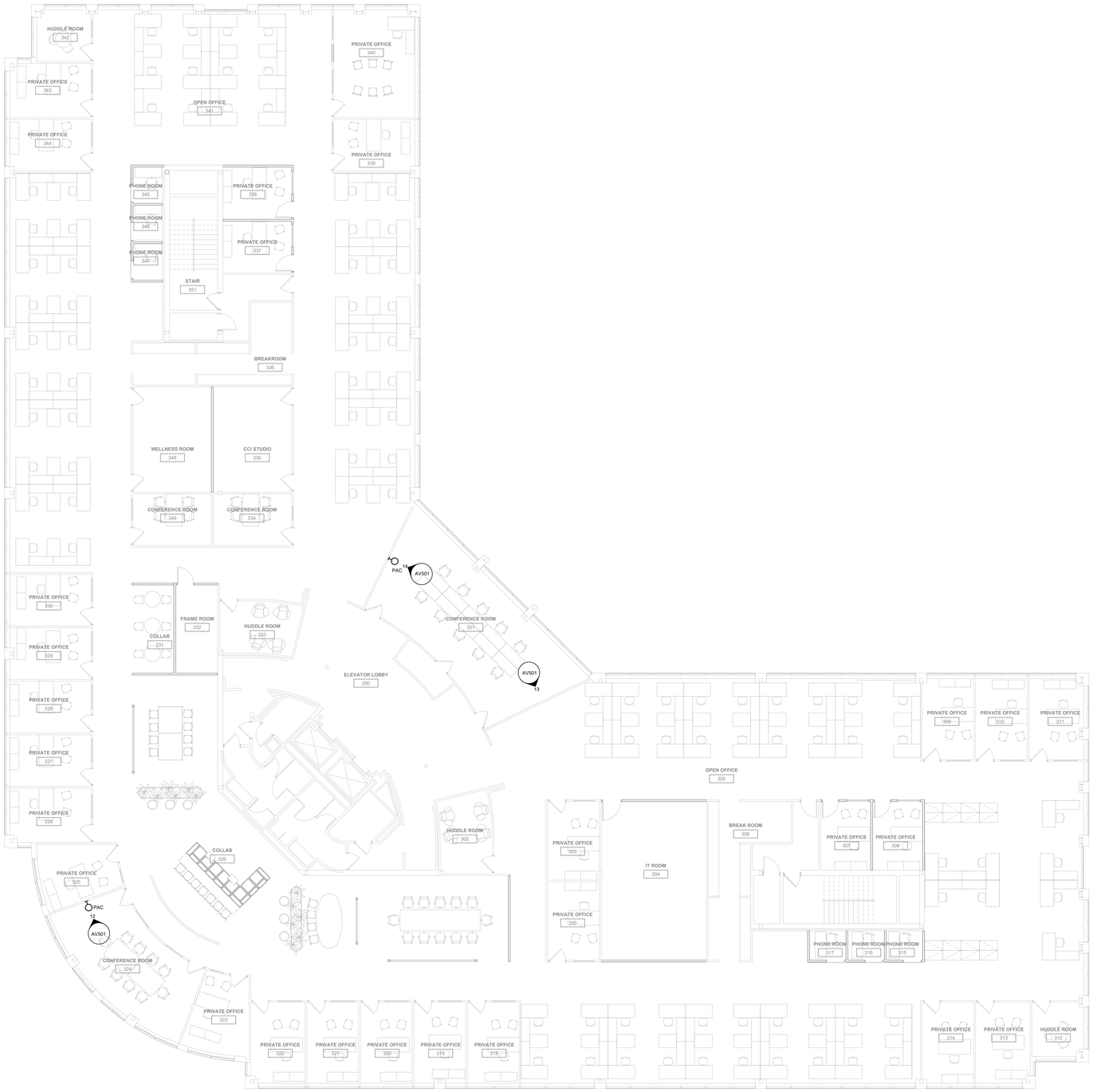
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

AUDIO VISUAL ELECTRICAL PLAN - LEVEL 2

AV302

2/18/2022 1:52:01 PM



TECHNOLOGY AUDIO VISUAL ELECTRICAL PLAN - LEVEL 3 (1)
1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.

B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

D. ABBREVIATIONS:
N - NEW ITEM IN EXISTING LOCATION

KEYNOTES (#)

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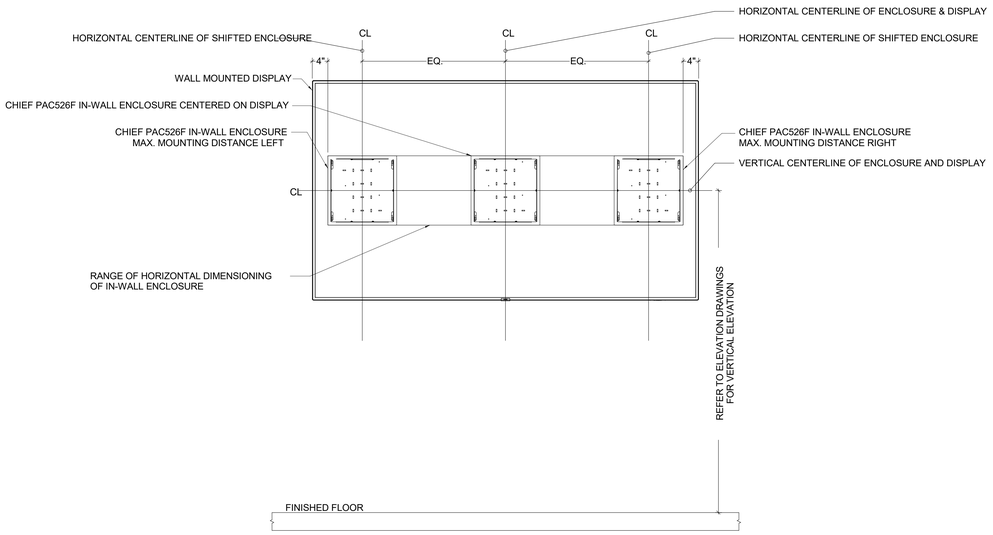
PROJECT: 21019
DATE: 02.18.2022

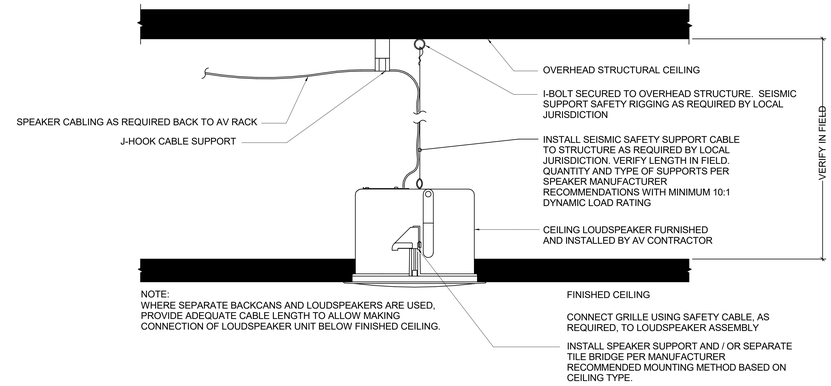
AUDIO VISUAL ELECTRICAL PLAN - LEVEL 3

AV303

2/18/2022 1:52:04 PM

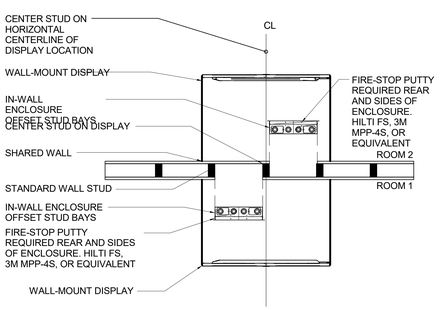


CHIEF PAC526F LAYOUT BEHIND DISPLAY

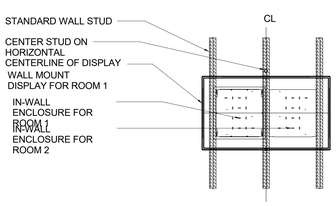


IN-CEILING SPEAKER (TYPICAL) - MOUNTING DETAIL

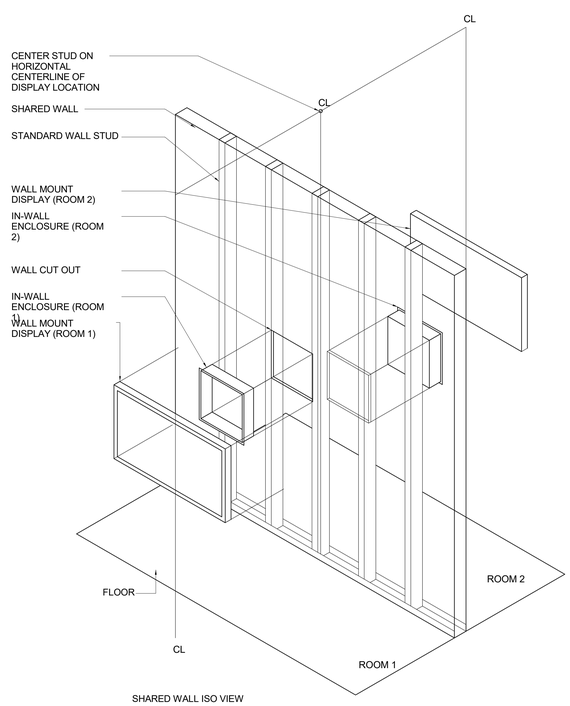
NOTES:
1. CHIEF PAC526F CAN BE LOCATED ALONG HORIZONTAL CENTERLINE OF DISPLAY, BUT SHALL NOT EXTEND NEARER THAN 4" FROM EDGE OF DISPLAY TO EITHER SIDE.
2. CHIEF PAC526F MUST BE CENTERED VERTICALLY ON THE VIDEO DISPLAY BASED ON THE REQUIRED ELEVATION. SEE TA700 SERIES DRAWINGS FOR ELEVATION REQUIREMENTS.
3. HORIZONTAL LEFT OR RIGHT VERTICAL CENTERLINE IS INDICATED BY DASHED LINE. COORDINATE ACTUAL HORIZONTAL DIMENSIONING RANGE WITH DISPLAY SIZES 40"-100".
4. DISPLAY HORIZONTAL CENTERLINE SHOULD BE COORDINATED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO INSTALLATION.
5. CHIEF PAC526F TO ALIGN VERTICALLY OVER TOP LOCAL AV RACK (WHERE APPLICABLE) IN ORDER TO MINIMIZE OR ELIMINATE BENDS IN CONDUIT BETWEEN THE PAC526F AND AV RACK JUNCTION BOX.



SHARED WALL PLAN VIEW

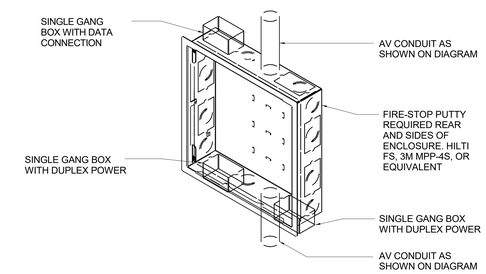


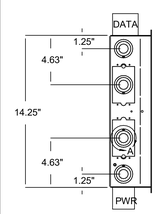
SHARED WALL ELEVATION

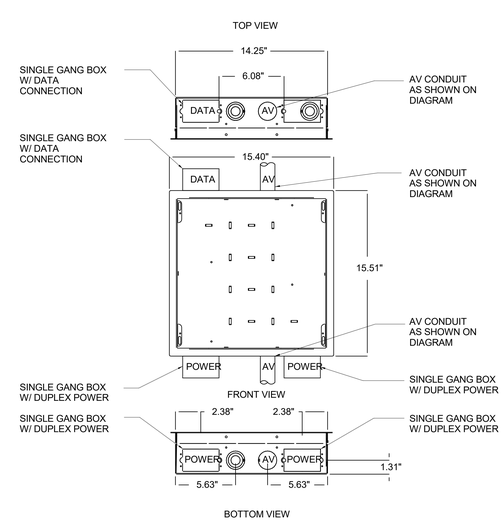


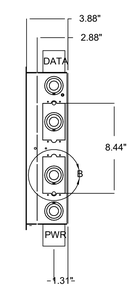
SHARED WALL ISO VIEW

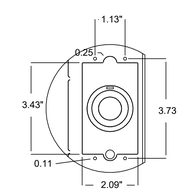
SHARED WALL DISPLAYS



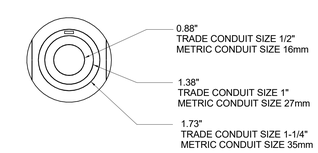








DETAIL B
SCALE 1 : 2



CHIEF PAC526F IN-WALL ENCLOSURE

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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

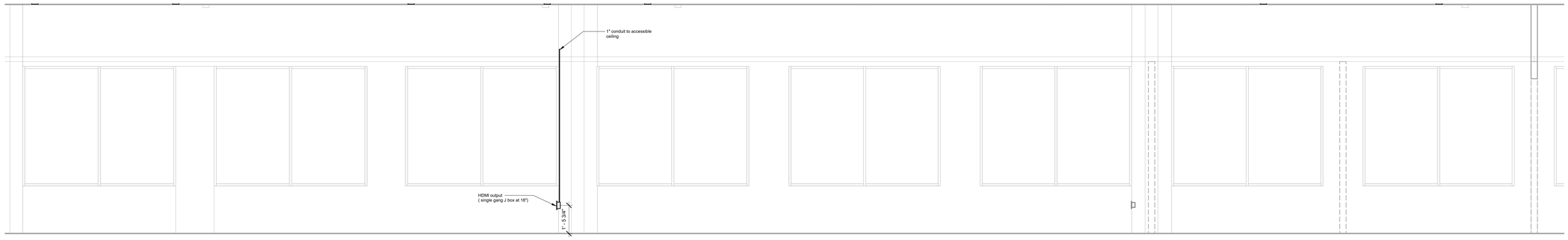
AUDIO VISUAL DETAILS

AV500

2/18/2022 1:52:05 PM

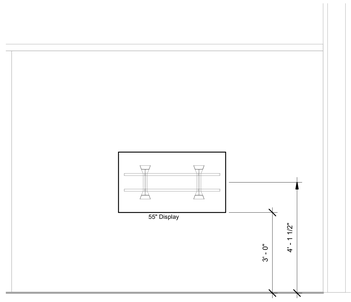
Notes:

- See detail AV500 for PAC box installation and coordination with electrical and Telecom
- PAC Box provided and installed by electrical contractor
- Power and data are incorporated into the PAC box in order to recess connections, see detail
- Centerline of display (horizontal) to be determined by architectural drawings, typically centered on table.
- All displays to have backing to support 5 times display weight.
- See electrical drawings for floor box details

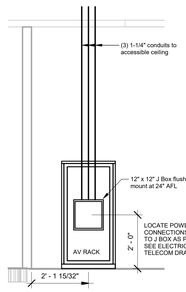


3 ROOM ELEVATION - BOARD ROOM 109 SOUTH WALL
1/2" = 1'-0"

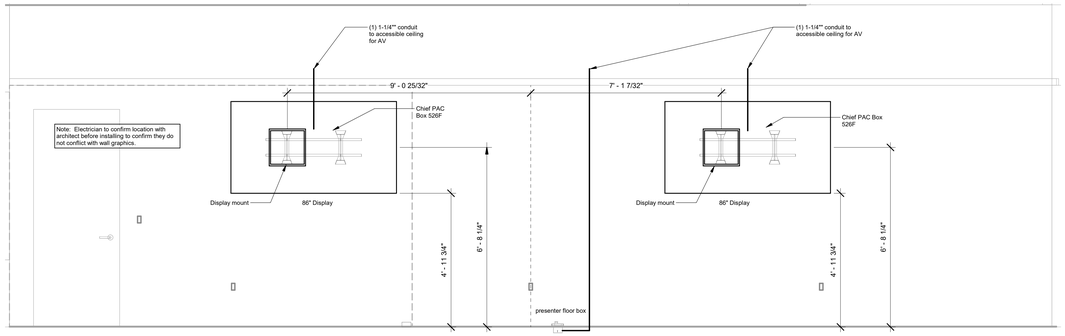
2 ROOM ELEVATION - BOARD ROOM 109 NORTH WALL
1/2" = 1'-0"



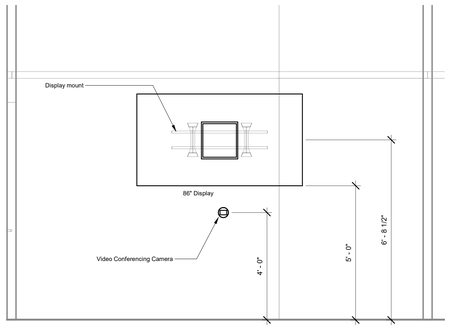
15 ROOM ELEVATION- 103,104,105
1/2" = 1'-0"



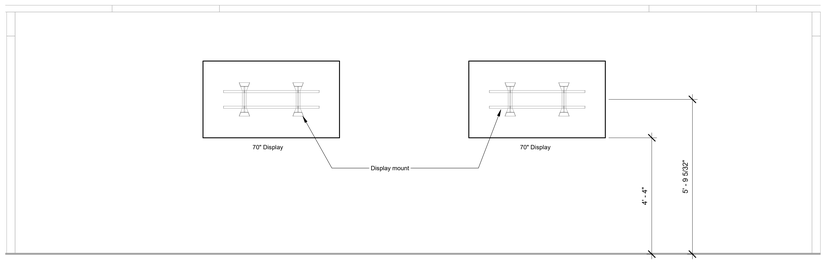
16 ROOM ELEVATION - AV STORAGE ROOM 110
1/2" = 1'-0"



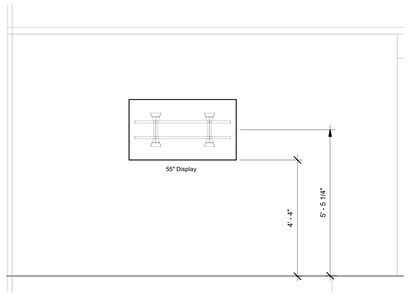
1 ROOM ELEVATION - BOARD ROOM 109 WEST WALL
1/2" = 1'-0"



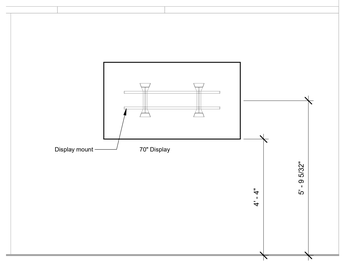
10 ROOM ELEVATION - CONFERENCE ROOM 119
1/2" = 1'-0"



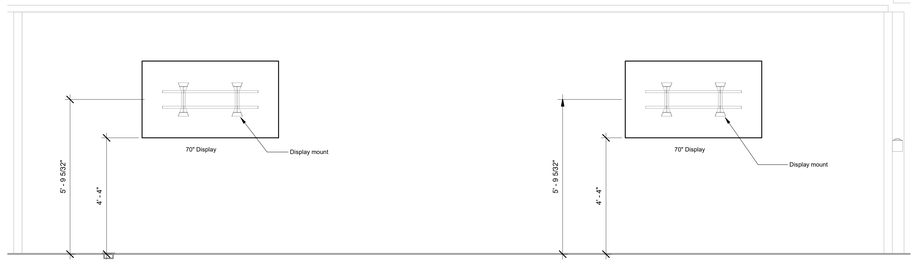
7 ROOM ELEVATION - TRAINING ROOM 233
1/2" = 1'-0"



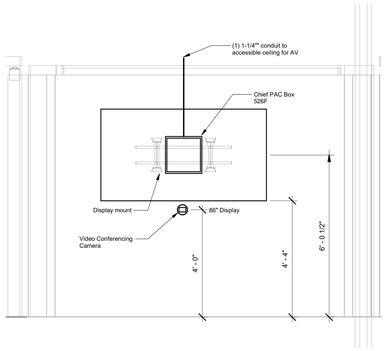
5 ROOM ELEVATION- 202, 231,340, 333, 302
1/2" = 1'-0"



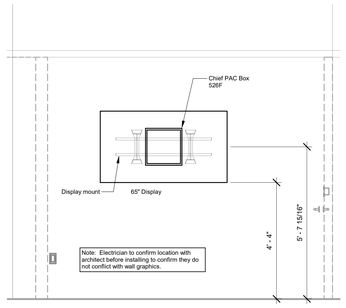
6 ROOM ELEVATION- Room 106 & COLLAB AREA 326
1/2" = 1'-0"



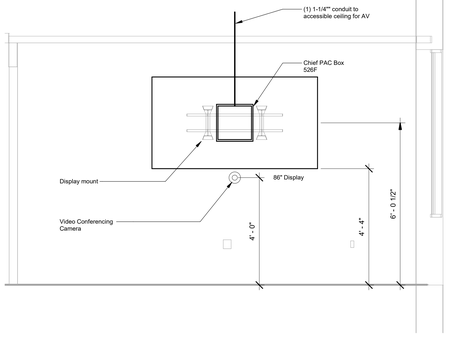
8 ROOM ELEVATION - TEAM ROOM 203
1/2" = 1'-0"



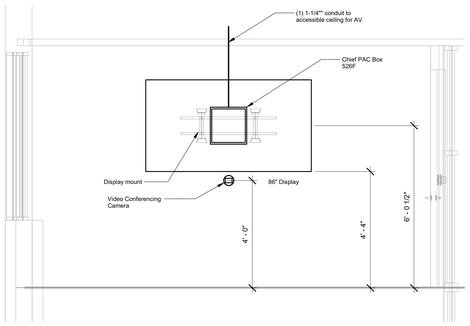
9 ROOM ELEVATION - CONFERENCE ROOM 226
1/2" = 1'-0"



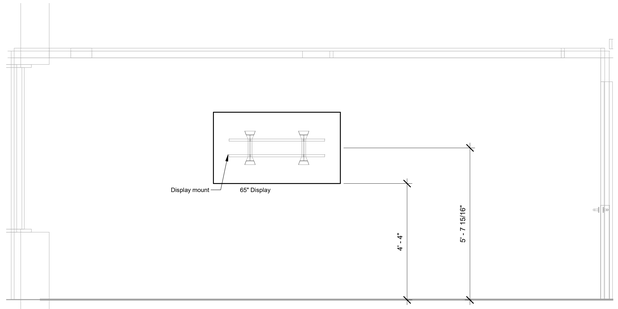
4 ROOM ELEVATION-101
1/2" = 1'-0"



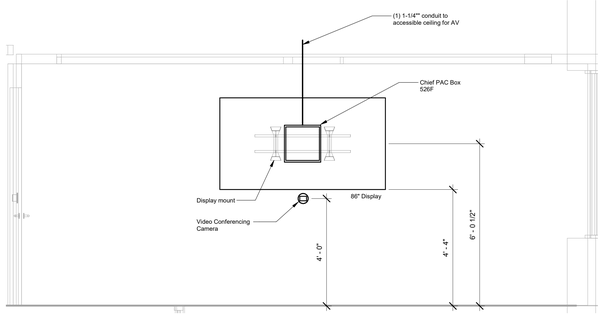
11 ELEVATION - CONFERENCE ROOM 222
1/2" = 1'-0"



12 ROOM ELEVATION - CONFERENCE ROOM 324 & 119
1/2" = 1'-0"



13 ROOM ELEVATION - CONFERENCE ROOM - 301 EAST WALL
1/2" = 1'-0"



14 ROOM ELEVATION - CONFERENCE ROOM - 301 WEST WALL
1/2" = 1'-0"

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SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

AUDIO VISUAL ELEVATIONS

AV501

2/18/2022 1:52:08 PM

Type	Product	Manufacturer	Part number	Quantity
Applies to room - 203				
Audio				
	Internal display speakers only	OFE	OFE	2
Video				
	75" Display (Contractor installed, owner furnished) 2xSony XBR75X850F	OFE	OFE	2
	Casting device, TBD, contractor installed behind display, owner furnished	OFE	OFE	2
	Large display wall mount for 75" display	Chief	LTM1U	2
Control				
	IR Remote only	OFE	OFE	2
Misc				
	Misc. patch cords, inter-rack wiring, lacing bars, connectors, power supplies, etc. needed for a complete system.	TBD	Misc.	Batch

AV Contractor is responsible for a complete and operable system. Any discrepancies with equipment list or needed clarifications should be brought to attention of project manager/consultant prior to award of bid. Alternates to listed equipment will be considered as long as they are equivalent.

Room Functional Summary - Team Room 203

1) Two owner furnished 75" wall mounted displays
2) Owner furnished casting device to be installed behind each display by AV contractor
3) Casting device is the only input to display
4) Wall mounts will be AV contractor furnished and installed
5) Audio through internal display speakers only
6) Control of displays will be through OFE IR remotes only
7) Unless otherwise noted as OFE, all equipment is AV contractor provided
8) All equipment listed is AV contractor installed, regardless of who provides unless otherwise noted

Type	Product	Manufacturer	Part number	Quantity
Applies to rooms - Medium Conference 106, Training 233 (2), Collab 326 (3)				
Audio				
	Internal display speakers only	OFE	OFE	6
Video	75" Displays (provided and installed by AV contractor)	Samsung	QM75R	6
	Casting device, TBD, contractor installed behind display, owner furnished	OFE	OFE	6
	Large display wall mount for 75" displays	Chief	LTM1U	6
	Mount adapters	Chief	FHB5147	6
Control				
	IR Remote only	OFE	OFE	6
Misc				
	Misc. patch cords, inter-rack wiring, lacing bars, connectors, power supplies, etc. needed for a complete system.	TBD	Misc.	Batch

AV Contractor is responsible for a complete and operable system. Any discrepancies with equipment list or needed clarifications should be brought to attention of project manager/consultant prior to award of bid. Alternates to listed equipment will be considered as long as they are equivalent.

Room Functional Summary - Medium Conf. 106, Training 233, Collaboration Area 326

1) All rooms will have new 75" wall mounted displays (see drawings for quantity of display in each area)
2) Owner furnished casting device to be installed behind each display by AV contractor
3) Wall mounts will be AV contractor furnished and installed
4) Audio through internal display speakers only
5) Control of displays will be through OFE IR remotes only
7) Unless otherwise noted as OFE, all equipment is AV contractor provided
8) All equipment listed is AV contractor installed, regardless of who provides unless otherwise noted

Type	Product	Manufacturer	Part number	Quantity
Applies to rooms - 103, 104, 105, 202, 231, 340, 302 & 333				
Audio				
	Internal display speakers only	OFE	OFE	8
Video				
	55" Displays (Contractor installed, owner furnished) 2xLG 55LF6100-UA, 3xLG55LN5700-UH, 2xLGWebOS TV 55LB6300-UQ, 1xSamsung UN55MU8000	OFE	OFE	8
	Casting device, TBD, contractor installed behind display, owner furnished	OFE	OFE	8
	Medium/Small display wall mount for 55" displays	Chief	MTM1U	8
	Mount Adapter (For Samsung model)	Chief	FHB5147	1
Control				
	IR Remote only	OFE	OFE	8
Misc				
	Misc. patch cords, inter-rack wiring, lacing bars, connectors, power supplies, etc. needed for a complete system.	TBD	Misc.	Batch

AV Contractor is responsible for a complete and operable system. Any discrepancies with equipment list or needed clarifications should be brought to attention of project manager/consultant prior to award of bid. Alternates to listed equipment will be considered as long as they are equivalent.

Room Functional Summary - Rooms 103, 104, 105, 202, 231, 302, 333, 340

1) Eight owner furnished 55" wall mounted displays
2) Owner furnished casting device to be installed behind each display by AV contractor
3) Casting device is the only input to display
4) Wall mounts will be AV contractor furnished and installed
5) Audio through internal display speakers only
6) Control of displays will be through OFE IR remotes only
7) Unless otherwise noted as OFE, all equipment is AV contractor provided
8) All equipment listed is AV contractor installed, regardless of who provides unless otherwise noted

Type	Product	Manufacturer	Part number	Quantity
Applies to room - 101				
Audio				
	Internal display speakers only	OFE	OFE	1
Video				
	65" Displays (Contractor installed, owner furnished) 1xSamsung UN65TU	OFE	OFE	1
	Casting device, TBD, contractor installed behind display, owner furnished	OFE	OFE	1
	Medium/Small display wall mount for 65" displays	Chief	MTM1U	1
	* Back Box for installation behind displays	*Chief	*PAC 526F	1
Control				
	IR Remote only	OFE	OFE	1
Misc				
	Misc. patch cords, inter-rack wiring, lacing bars, connectors, power supplies, etc. needed for a complete system.	TBD	Misc.	Batch
*** This item provided by and installed by electrical contractor**				

AV Contractor is responsible for a complete and operable system. Any discrepancies with equipment list or needed clarifications should be brought to attention of project manager/consultant prior to award of bid. Alternates to listed equipment will be considered as long as they are equivalent.

Room Functional Summary - Reception 101

1) One owner furnished 65" wall mounted displays
2) Owner furnished casting device to be installed behind each display by AV contractor
3) Casting device is the only input to display
4) Wall mounts will be AV contractor furnished and installed
5) Audio through internal display speakers only
6) Control of displays will be through OFE IR remotes only
7) Unless otherwise noted as OFE, all equipment is AV contractor provided
8) All equipment listed is AV contractor installed, regardless of who provides unless otherwise noted

Type	Product	Manufacturer	Part number	Quantity
Applies to room - 222 & 226				
Audio				
	Rally (Contractor installed, owner furnished)	OFE	OFE	2
Video				
	86" Display	Samsung	QM85R	2
	Large wall mount for 86" display	Chief	LTM1U	2
	Mount adapter	Chief	FHB5147	2
	Mac Mini for conferencing (Contractor installed behind display, owner furnished)	OFE	OFE	2
	* Back Box for installation behind displays	*Chief	*PAC 526F	2
Control				
	IR Remote only	OFE	OFE	2
Misc				
	Misc. patch cords, inter-rack wiring, lacing bars, connectors, power supplies, etc. needed for a complete system.	TBD	Misc.	Batch
*** This item provided by and installed by electrical contractor**				

AV Contractor is responsible for a complete and operable system. Any discrepancies with equipment list or needed clarifications should be brought to attention of project manager/consultant prior to award of bid. Alternates to listed equipment will be considered as long as they are equivalent.

Room Functional Summary - Room 222 & 226

1) One contractor furnished 65" wall mounted display
2) Owner furnished Mac Mini for conferencing, contractor installed behind display
3) Owner furnished Rally system, contractor installed
4) Wall mounts will be AV contractor furnished and installed
5) Audio through rally system
6) Control of display will be through IR remotes only
7) Unless otherwise noted as OFE, all equipment is AV contractor provided
8) All equipment listed is AV contractor installed, regardless of who provides unless otherwise noted

Type	Product	Manufacturer	Part number	Quantity
Applies to room - 324 & 119				
Audio				
	Rally Plus (Contractor installed, owner furnished)	OFE	OFE	2
Video				
	86" Display	Samsung	QM85R	2
	Large wall mount for 86" display	Chief	LTM1U	2
	Mount adapter	Chief	FHB5147	2
	Mac Mini for conferencing (Contractor installed behind display, owner furnished)	OFE	OFE	2
	* Back Box for installation behind displays	*Chief	*PAC 526F	2
Control				
	IR Remote only	OFE	OFE	2
Misc				
	Misc. patch cords, inter-rack wiring, lacing bars, connectors, power supplies, etc. needed for a complete system.	TBD	Misc.	Batch
*** This item provided by and installed by electrical contractor**				

AV Contractor is responsible for a complete and operable system. Any discrepancies with equipment list or needed clarifications should be brought to attention of project manager/consultant prior to award of bid. Alternates to listed equipment will be considered as long as they are equivalent.

Room Functional Summary - Room 324

1) One contractor furnished 86" wall mounted display
2) Owner furnished Mac Mini for conferencing, contractor installed behind display
3) Owner furnished Rally system, contractor installed
4) Wall mounts will be AV contractor furnished and installed
5) Audio through rally system
6) Control of display will be through IR remotes only
7) Unless otherwise noted as OFE, all equipment is AV contractor provided
8) All equipment listed is AV contractor installed, regardless of who provides unless otherwise noted

Type	Product	Manufacturer	Part number	Quantity
Applies to room - 301				
Audio				
	Rally (Contractor installed, owner furnished)	OFE	OFE	1
Video				
	86" Display	Samsung	QM85R	1
	Large wall mount for 86" display	Chief	LTM1U	1
	Mount adapters	Chief	FHB5147	1
	65" Display (Contractor installed, owner furnished) 1xSamsung UN65TU	OFE	OFE	1
	Casting device, TBD, contractor installed behind display, owner furnished	OFE	OFE	1
	Mac Mini for conferencing (Contractor installed behind display, owner furnished)	OFE	OFE	1
	Medium/Small display wall mount for 65" display	Chief	MTM1U	1
Control				
	IR Remote only	OFE	OFE	1
Misc				
	Misc. patch cords, inter-rack wiring, lacing bars, connectors, power supplies, etc. needed for a complete system.	TBD	Misc.	Batch

AV Contractor is responsible for a complete and operable system. Any discrepancies with equipment list or needed clarifications should be brought to attention of project manager/consultant prior to award of bid. Alternates to listed equipment will be considered as long as they are equivalent.

Room Functional Summary - Room 301

1) One contractor furnished 86" wall mounted display
2) One owner furnished, contractor installed 65" wall mounted display
3) Owner furnished Mac Mini for conferencing, contractor installed behind 98" display
4) Owner furnished Rally system, contractor installed on wall with 98" display
5) Casting device is the only input to 65" display, and is a stand alone system not connected to 98" display or Mac Mini
6) Wall mounts will be AV contractor furnished and installed
7) Audio through rally system
8) Control of displays will be through IR remotes only
9) Unless otherwise noted as OFE, all equipment is AV contractor provided
10) All equipment listed is AV contractor installed, regardless of who provides unless otherwise noted

Type	Product	Manufacturer	Part number	Quantity
Applies to Board Room 109 and AV Storage Room 110				
Audio				
	Audio DSP	QSC	Core 510i	1
	Input Cards	QSC	CIML4	2
	Output Cards	QSC	COL4	2
	Ceiling Speakers (White)	QSC	AD-C6T	21
	Amplifier, 4 Channel	QSC	SPA4-100	1
	USB Adapter box	QSC	IO-USB Bridge	1
	Dante License	QSC	SLDAN-32	1
	Table Mic Base - Microflex (Black)	Shure	MXW8	12
	Goosneck mic, Super Cardiod (Black)	Shure	MX415LPDF/S	12
	Wireless Transceivers	Shure	MXWAPT8	2
	Microflex SM58 HH	Shure	MXW2/SM58	2
	Ceiling Array Microphones	Shure	MXA 910W-USA	2
	Charging Station for Wireless Mics	Shure	MXWNCS8	4
	IR Assisted listening System - Dante	Listen Tech	LS90-D	1
	Emitter expansion unit	Listen Tech	LA141	1
	2.5mm DC power inline jack	VetCo	PH-48-1262B	1
	Solderless w/screw terminals - 2" pigtail	VetCo	PH-48-1268B	1
Video				
	86" Displays	Samsung	QM85R	4
	Mount adapters	Chief	FHB5147	5
	55" Displays for confidence monitor carts	Samsung	QM55R	2
	Large wall mount for 86" displays	Chief	LTM1U	3
	Medium/Small display wall mount for 55" displays	Chief	MTM1U	2
	Mobile Cart for (1) 86" display	Chief	LPAU	1
	Low Carts for confidence monitors	Chief	MFQ-US	2
	*Back Box for installation behind displays	*Chief	*PAC 526F	3
	Encoder - 4 HDMI inputs	Wirecast	Wirecast Gear 310	1
	PTZ Camera, 20x zoom	PTZ Pro	PT20X-SDI	1
	PTZ Camera, 12x zoom	PTZ Pro	PT12X-SDI	2
	Flush Camera Mount	PTZ Pro	PT-CM-1-BK	3
	SDI to HDMI Converter	Decimator	MD-LX	3
	OFE Mac Mini (install only)	OFE	OFE	1
	HDMI to USB C converter (for input to Mac Mini)	Aten	CAMLIVE UC3020 (or equivalent)	1
	OFE Apple TV boxes (install only on back of all displays, including carts)	OFE	OFE	6
	16x16 Card Chasis (MASTER QUOTE 1108442)	Crestron	DM-MK 16x16-CPU-3	1
	HDMI Input Card	Crestron	DMC-4KZ-HD	5
	DM Input Card	Crestron	DMC-4KZ-C	2
	HDMI Output Card	Crestron	DMC-4KZ-CO-HD	3
	DM Output Card	Crestron	DMC-4KZ-HDO	3
	HDMI RX Unit	Crestron	DM-RMC-4KZ-100-C	6
	Single Gang wall plate for DM connection	Crestron	MP-WP181-C-W	3
	Single Gang HDMI DM input (wall and floor box)	Crestron	DM-TX-4KZ-100-C-1G-W-T	2
	Custom plate with one RJ45 barrel for control panel extension	vendor choice	vendor choice	1
Control				
	Master Controller	Crestron	CP4N	1
	10" Wall Control Panel	Crestron	TSW-10/W	1
	10" Portable Table Control Panel	Crestron	TS-10/W	1
	4U Rack shelf for portable touch panel	MAP	U4V	1
	Dante & Control Switch (26 port)	QSC/Netgear	NS26-1440++	1
	USB extension for RF keyboard/mouse (Local)	Crestron	USB-EXT-DM-LOCAL	1
	USB extension for RF keyboard/mouse (Remote)	Crestron	USB-EXT-DM-REMOTE	1
	Wireless keybrd/mouse for rack mounted Mac mini	Logitech	MK710	1
Misc				
	AV Cabinet, 44 RU, with rear door	MAP	WRK-44-27	1
	220 CFM fantop with controller	MAP	MW-4QFT-FC	1
	Power strip, 20 Amp, Vertical	MAP	PDT-2020C-NS	2
	Side Panels	MAP	SPN-44-267	1
	Rack shelves as needed	MAP	TBD	Batch
	Blank and vented panels (plan for all RU's to be covered by either equipment or blanks and vents)	MAP	TBD	Batch
	Misc. patch cords, inter-rack wiring, lacing bars, connectors, power supplies, etc. needed for a complete system	TBD	Misc.	Batch
*** This item provided by and installed by electrical contractor**				

AV Contractor is responsible for a complete and operable system. Any discrepancies with equipment list or needed clarifications should be brought to attention of project manager/consultant prior to award of bid. Alternates to listed equipment will be considered as long as they are equivalent.

Room Functional Summary - Room 301

General: This room will function as a board room, EOC space, and general conference room. All the furniture is flex, and can be expected to be removed and reinstalled to accommodate room setup. All displays, including carts, will have an OFE apple TV unit installed behind display and connected to HDMI input #2 for EOC events. All AV connections in this room will be from terminations in floor box or wall panels to provide cable disconnect when needed. All room microphones will be wireless, including table and HH units. A charging station will bet setup in AV storage room to dock microphones. Three ceiling mounted cameras will extend to AV rack and feed a matrix switch. From there cameras can be sent to OFE encoder (streaming platform) and selected as source for Mac Mini running VC software. Additional sources will include the rack mounted Mac Mini, wall plate HDMI input, and floor box HDMI input. An AV equipment rack will be located in AV storage room adjacent to board room. Ceiling speakers will be laid out in three zones to mix minus microphones for voice reinforcement. See RCP drawings and single lines for more information. Control of AV system shall be via one wall mounted installed panel, one wall plate connection and one rack connection for a shared mobile table top panel.
1) Unless otherwise noted as OFE, all equipment is AV contractor provided
2) All equipment listed is AV contractor installed, regardless of who provides unless otherwise noted
3) Coordinate all network addressing with client IT department.
4) Dante/control switch and cabling are AV equipment and all required components & patch cables shall be provided and installed by AV contractor

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REGISTERED PROFESSIONAL ENGINEER 94252 OREGON NOV. 13, 2018 ADAM R. KOBLE
EXPIRES: 6/30/2023
REVISIONS:

KCL ENGINEERING
312 NW 10th Ave
Suite 100
Portland, OR
97209

BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006
PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

AUDIO VISUAL SYSTEMS EQUIPMENT

AV502

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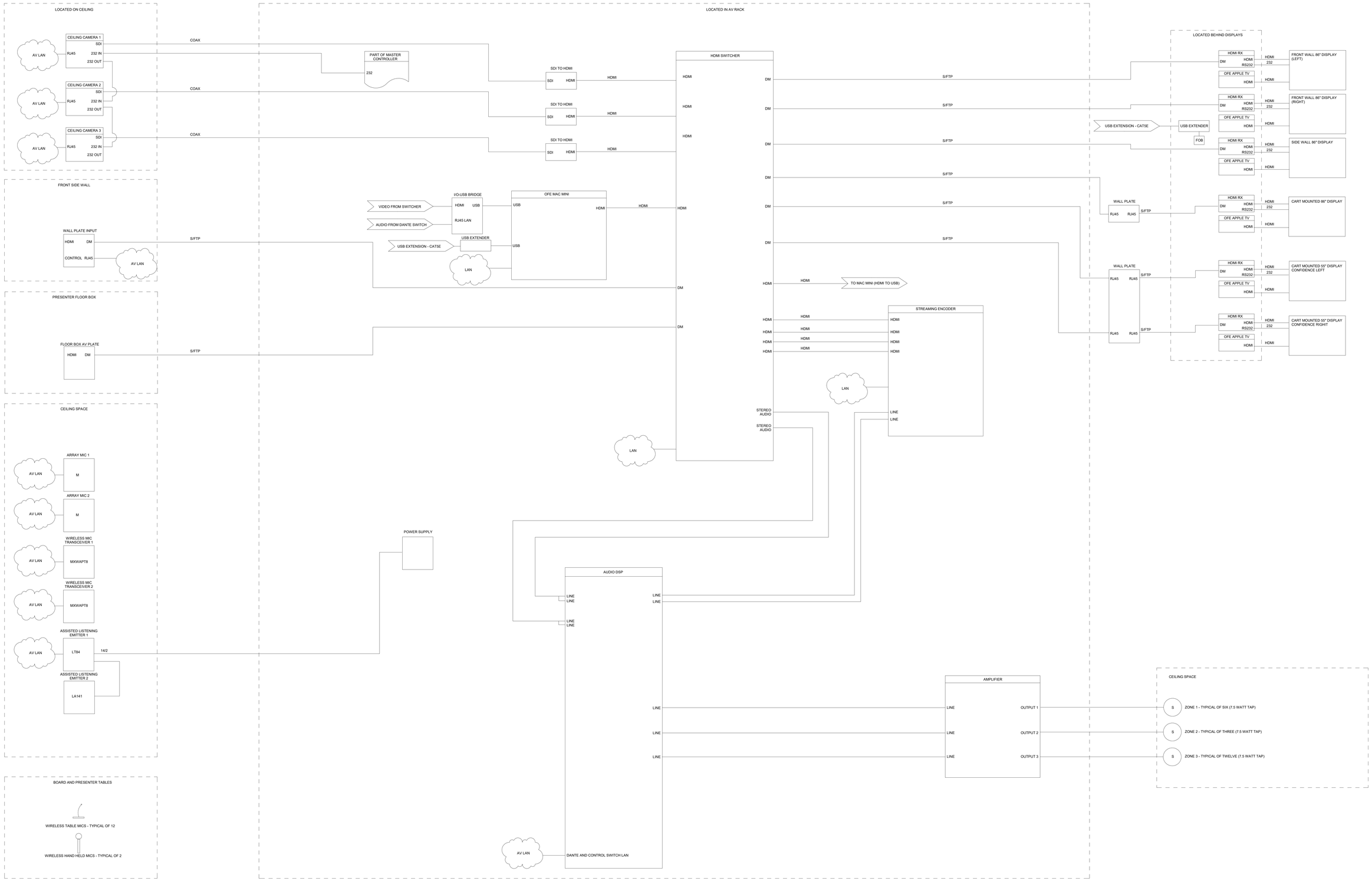
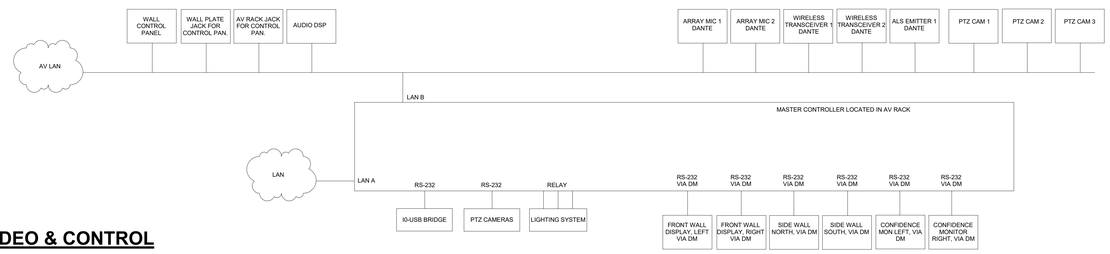


NOTES:

1) AV LAN IS AV CONTRACTOR PROVIDED AND INSTALLED. DANTE AND CONTROL NETWORK.
2) LAN IS CLIENT NETWORK, COORDINATE ALL IP ADDRESSING WITH CLIENT IT DEPARTMENT.
3) EXTEND POWER FOR LISTENTECH EMITTER WITH 14/2 SPEAKER WIRE USING ADAPTERS SPECIFIED.
4) ENCODER WILL RECEIVE 4 INPUTS, EACH OF THE CAMERAS PLUS A SELECTED CONTENT SOURCE.
5) GENERAL DIRECTION ON CONTROL SYSTEM PROGRAMMING:
   5)1) AV CONTRACTOR WILL SETUP A CONTROL SYSTEM PROGRAMMING MEETING WITH CLIENT UPON AWARD OF PROJECT.
   5)2) AV CONTRACTOR WILL PROVIDE CONTROL PAGE LAYOUT FOR REVIEW BY CLIENT AT 50% AND 90%.
   5)3) CLIENT WILL PROVIDE SCHOOL BRANDING AND GRAPHICS AS NEEDED FOR INCLUSION IN DESIGN.
6) EXTEND WIRELESS KEYBOARD/MOUSE FROM MAC MINI TO FOB LOCATED BEHIND FRONT WALL RIGHT SIDE 86" DISPLAY.



BOARD ROOM - AUDIO, VIDEO & CONTROL

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OREGON
ADAM R. KOBLER

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BEAVERTON SCHOOL DISTRICT - SUMMIT CENTRAL OFFICE REMODEL

SUMMIT BUILDING
1260 NW WATERHOUSE AVE BEAVERTON, OREGON 97006

PERMIT DOCUMENTATION

PROJECT: 21019
DATE: 02.18.2022

AUDIO VISUAL DETAILS

AV503

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