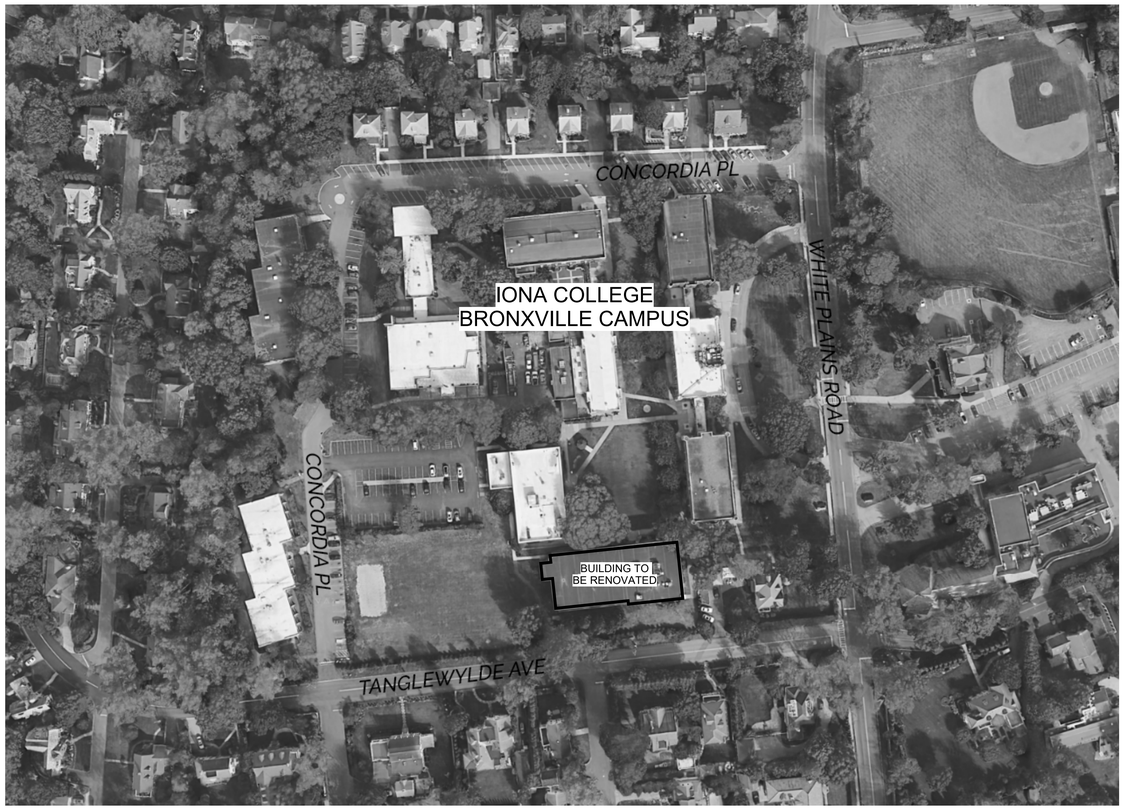
SLAM



IONA COLLEGE

NEW YORK PRESBYTERIAN IONA SCHOOL OF HEALTH SCIENCES

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ABBREVIATIONS

@	AT	I.D.	INSIDE DIAMETER
A.B.	ANCHOR BOLT	I.F.	INSIDE FACE
A/C	AIR CONDITIONING	INCAND	INCANDESCENT
ACOUST	ACOUSTICAL	INCL	INCLUDE
AC. T.	ACOUSTIC TILE	INSUL	INSULATION
ACT	ACTUAL	INT	INTERIOR
ACP	ACOUSTIC CEILING PANEL	INV	INVERT
A.D.	AREA DRAIN	I.P.S.	IRON PIPE SIZE
ADDL	ADDITIONAL		
ADJ	ADJUSTABLE / ADJUST	JAN	JANITOR
A.F.F.	ABOVE FINISHED FLOOR	JST	JOIST
AGGR	AGGREGATE	JT	JOINT
A.H.U.	AIR HANDLING UNIT		
ALT	ALTERNATE	IT	KITCHEN
ALUM	ALUMINUM		
ANOD	ANODIZED	LAM	LAMINATED
APPROX	APPROXIMATE	LAV	LAVATORY
ARCH	ARCHITECTURAL	LCKR	LOCKER
ASPH	ASPHALT	L.F.	LINEAR FOOT
A.T.	ASPHALT TILE	L.L.	LIVE LOAD
L	ANGLE	L.P.	LOW POINT
		LT	LIGHT
B.C.	BRICK COURSE		
B/C	BOTTOM OF CURB	MAS	MASONRY
BD	BOARD	MATL	MATERIAL
B.E.J.	BRICK (BLOCK) EXPANSION JOINT	MAX	MAXIMUM
B.F.	BOTTOM OF FOOTING	M.C.	MASONRY COURSE
BITUM	BITUMINOUS	MECH	MECHANICAL
BLDG	BUILDING	MEMB	MEMBRANE
BLK	BLOCK	MET	METAL
BLKG	BLOCKING	MET T.P.	METAL TOILET PARTITION
BM	BEAM	MEZZ	MEZZANINE
B.M.	BENCH MARK	MFR	MANUFACTURER
BOT	BOTTOM	MH	MANHOLE
B.P.	BOTTOM OF POCKET	MIN	MINIMUM
B.P.L.	BEARING PLATE / BASE PLATE	MIR	MIRROR
BRK	BRICK	MISC	MISCELLANEOUS
B.S.	BOTH SIDES	M.O.	MASONRY OPENING
B.U.R.	BUILT UP ROOFING	MTD	MOUNTED
B/W	BOTTOM OF WALL	M.U.	MASONRY UNIT
B.W.R.	BOTH WAYS WALL	MULL	MULLION
CAB	CABINET	N	NORTH
C.B.	CATCH BASIN	N.I.C.	NOT IN CONTRACT
CEM	CEMENT	NO.	NUMBER
CER	CERAMIC	NOM	NOMINAL
C.F.M.F.	COLD FORMED METAL FRAMING	N.R.C.	NOISE REDUCTION COEFFICIENT
C.H.	CABINET HEATER	N.T.S.	NOT TO SCALE
CHKBD	CHALKBOARD		
C.I.	CAST IRON	O/A	OUTSIDE AIR
C.J.	CONTROL JOINT	O.C.	ON CENTER
CLG. HT.	CEILING HEIGHT	O.D.	OUTSIDE DIAMETER
CLO	CLOSET	O.F.	OUTSIDE FACE
CLR	CLEAR	OFF	OFFICE
CLRM	CLASSROOM	OH	OVERHEAD
C.M.U.	CONCRETE MASONRY UNIT	OPNG	OPENING
CNTR	COUNTER	OPP	OPPOSITE
C.O.	CLEAN OUT	O.H.	OPPOSITE HAND
COL	COLUMN	OZ	OUNCE
COMP	COMPACTED / COMPOSITION		
CONC	CONCRETE	PART	PARTITION
CONF	CONFERENCE	PL	PLATE
CONN	CONNECTION	P.LAM	PLASTIC LAMINATE
CONST	CONSTRUCTION	PLS	PLASTER
CONT	CONTINUOUS	PLYWD	PLYWOOD
C.L.L.	CONTRACT LIMIT LINE	PR	PAIR
CONTR	CONTRACTOR	PREFAB	PREFABRICATED
CONV	CONVECTOR	PROJ	PROJECTION
COORD	COORDINATE	PROP	PROPERTY
CORR	CORRIDOR	PTD	PAINTED
C.P.	CONTROL PANEL	P.T.D.	PAPER TOWEL DISPENSER
CPT	CARPET		
C.R.	CEILING REGISTER	Q.T.	QUARRY TILE
C.T.	CERAMIC TILE		
CTR	CENTER	R	RISER (RADIUS)
C.U.H.	CABINET UNIT HEATER	R/A	RETURN AIR
C.Y.	CUBIC YARD	RAD	RADIATION
		R.B.	RESILIENT BASE
DBL	DOUBLE	R.D.	ROOF DRAIN
DEPT	DEPARTMENT	RECPT	RECEPTACLE
DET	DETAIL	REF	REFERENCE
D.F.	DRINKING FOUNTAIN	REFL	REFLECTED, REFLECTIVE
DIA	DIAMETER	REFR	REFRIGERATOR
DIM	DIMENSION	REG	REGISTER
DISP	DISPENSER	REINF	REINFORCING
DIV	DIVISION	REQD	REQUIRED
D.L.	DEAD LOAD	RES	RESILIENT
DN	DOWN	RET	RETAINING
D.O.	DOOR OPENING	REV	REVISION
DR	DOOR	RM	ROOM
DS	DOWNSPOUT	R.O.	ROUGH OPENING
D.S.P.	DRY STAND PIPE	R.O.W.	RIGHT OF WAY
DWG	DRAWING	R.T.	RUBBER TILE
DWL	DOWEL	RV	ROOF VENT
		R.W.L.	RAIN WATER LEADER
E	EAST	S	SOUTH
EA	EACH	S.FPFG.	SPRAYED-ON FIREPROOFING
E.B.F.	EXISTING BOTTOM OF FOOTING	S.C.	SOLID CORE
E.C.	EXPOSED CONSTRUCTION	S.C.D.	SEAT COVER DISPENSER
E.I.F.S.	EXTERIOR INSULATION & FINISH SYSTEM	SCHED	SCHEDULE
E.J.	EXPANSION JOINT	S.D.	SOAP DISPENSER
E.J.C.	EXPANSION JOINT COVER	SEC	SECTION
EL	ELEVATION	S.F.	SQUARE FOOT
ELEC	ELECTRICAL	S.G.F.T.	STRUCTURAL GLAZED FACING TILE
ELEV	ELEVATOR	SH	SHELF
EMER	EMERGENCY	SHR	SHOWER
ENCL	ENCLOSURE	SHT	SHEET
ENGR	ENGINEER	SIM	SIMILAR
E.P.	ELECTRICAL PANEL	S.N.D.	SANITARY NAPKIN DISPENSER
EQ	EQUAL	S.N.R.	SANITARY NAPKIN RECEPTACLE
EQUIP	EQUIPMENT	SPEC	SPECIFICATIONS
E.W.	EACH WAY	SPKLR	SPRINKLER
E.W.C.	ELECTRIC WATER COOLER	S.P.R.	SINGLE PLY ROOF
EXH	EXHAUST	SQ	SQUARE
EXIST	EXISTING	S.S	SOLID SURFACE
EXP	EXPANSION	S.SK.	SERVICE SINK
EXPD	EXPANDED	S.STL.	STAINLESS STEEL
EXPO	EXPOSED	STA	STATION
EXT	EXTERIOR	STD	STANDARD
		ST. FT.	STEP FOOTING
F.A.	FIRE ALARM	STIFF	STIFFENERS
F.A.P.	FIRE ALARM PANEL	STL	STEEL
F.B.	FOOTING BREAK	STOR	STORAGE
F.BRK	FACE BRICK	S. TR.	SOUND TRANSMISSION
F.D.	FLOOR DRAIN	STRUCT	STRUCTURAL
FDN	FOUNDATION	SURF	SURFACE
F.E.	FIRE EXTINGUISHER	SUSP	SUSPENDED
F.E.C.	FIRE EXTINGUISHER CABINET (WITH EXTINGUISHER PROVIDED)	SYM	SYMMETRICAL
F.F.	FACTORY FINISH	T	TREAD
F.H.	FIRE HYDRANT	T & B	TOP AND BOTTOM
F.H.C.	FIRE HOSE CABINET	TB	TACKBOARD
F.H.P.	FULL HEIGHT PARTITION	T.B.	TOWEL BAR
FIN	FINISH	T.C.	TOP OF CURB
FIN FL	FINISHED FLOOR	TEL	TELEPHONE
FIXT	FIXTURE	TEMP	TEMPERED
FL	FLOOR	TERR	TERRAZZO
FLASH	FLASHING	T.F.	TOP OF FOUNDATION
FLEX	FLEXIBLE	T. & G.	TONGUE AND GROOVE
FLUOR	FLUORESCENT	THK	THICK
F.O.C.	FACE OF CONCRETE	THRES	THRESHOLD
F.O.F.	FACE OF FINISH	T/P	TOP OF PAVEMENT
F.O.G.	FACE OF GYPSUM BOARD	T.P.D.	TOILET PAPER DISPENSER
F.O.M.	FACE OF MASONRY	T/PR	TOP OF PIER
F.O.S.	FACE OF STUD	T/S	TOP OF SLAB
FPD	FLAT PANEL DISPLAY	T/SH	TOP OF SHELF
FPFG	FIREPROOFING	T/STL	TOP OF STEEL
F.R.	FIRE RATED	T/W	TOP OF WALL
F.R.T	FIRE RETARDANT TREATED	TYP	TYPICAL
F.S.	FULL SIZE		
FT	FOOT OR FEET	U.H.	UNIT HEATER
F.T.R.	FINNED TUBE RADIATION	U.L.	UNDERWRITER'S LABORATORY
FUR	FURRING	UNFIN	UNFINISHED
FUT	FUTURE	U.N.O.	UNLESS NOTED OTHERWISE
F.W.C.	FABRIC WALL COVERING	UR	URINAL
		U.V.	UNIT VENTILATOR
GA	GAUGE		
GALV	GALVANIZED	V.B.	VINYL BASE
G.B.	GRAB BAR	V.C.T.	VINYL COMPOSITION TILE
G.C.	GENERAL CONTRACTOR	VERT	VERTICAL
GL	GLASS	VEST	VESTIBULE
GLZ	GLAZE	V.F.	VINYL FABRIC
GND	GROUND	V.G.	VERTICAL GRAIN
GRD	GRADE	V.I.F.	VERIFY IN FIELD
GWB	GYPSUM WALL BOARD	VOL	VOLUME
GYP BD	GYPSUM BOARD / GYPSUM BOARD UNIT	V.W.C.	VINYL WALLCOVERING
H.B.	HOSE BIBB	W	WEST
HC	HANDICAPPED	W/	WITH
H.C.	HOLLOW CORE	W.C.	WATER CLOSET
HD	HEAD	WD	WOOD
H.P.	HIGH POINT	WND	WINDOW
HWD	HARDWOOD	W/O	WITHOUT
HDW	HARDWARE	WP	WATERPROOF
H.M.	HOLLOW METAL	W.P.T.	WORKING POINT
HOR	HORIZONTAL	W.S.	WALL SLEEVE
HTG	HEATING	WSCT	WAINSCOT
HT	HEIGHT	WT	WEIGHT
HYD	HYDRANT	WWF	WELDED WIRE FABRIC
H&V	HEATING AND VENTILATING		
H.U.	HEATING UNIT		

GRAPHIC LEGEND

EARTHWORK
- EARTH
- POROUS FILL / GRAVEL

STONE
- NATURAL STONE

CONCRETE
- CAST IN PLACE CONCRETE
- CAST STONE
- ARCHITECTURAL PRECAST CONCRETE

MASONRY
- BRICK
- GLAZED BRICK / S.G.F.T.
- CONCRETE MASONRY UNIT
- GLAZED CONCRETE MASONRY UNIT
- MANUFACTURED STONE MASONRY UNIT
- MORTAR / GROUT
- SAND / PLASTER

METAL
- STEEL
- ALUMINUM

WOOD
- ROUGH LUMBER (CONTINUOUS)
- ROUGH LUMBER (INTERMITTANT)
- FINISH WOOD
- PLYWOOD
- PARTICLE BOARD / MDF

INSULATION
- RIGID INSULATION
- SEMI-RIGID INSULATION
- SPRAY FOAM INSULATION
- BLANKET INSULATION
- FIRE SAFING

MISCELLANEOUS
- GYPSUM BOARD
- ACOUSTIC TILE
- SOLID SURFACE

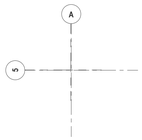
WALL DESIGNATION

NEW | EXISTING | EXISTING TO BE REMOVED

DOOR DESIGNATION

NEW | EXISTING | EXISTING TO BE REMOVED

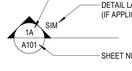
GRID LINES AND HEADS



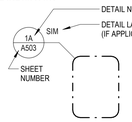
DETAIL / DRAWING TITLE

1E TITLE 1/8" = 1'-0"

SECTION INDICATOR



DETAIL INDICATOR

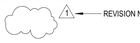


EXTERIOR ELEVATION TAG

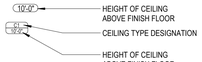
INTERIOR ELEVATION TAG

ROOM TAG

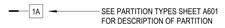
REVISION INDICATOR



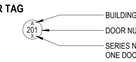
CEILING HEIGHT TAG



WALL TAG



DOOR TAG



WINDOW / STOREFRONT TAG

EQUIPMENT TAG

TOILET ACCESSORY TAG

ELEVATION DATUM MARK

DEMOLITION KEYNOTE

MATCH LINE

DRAWING LIST

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KEYPLAN

Number	Date	Issued For

GENERAL INFORMATION

Date 04/07/2022
Scale 12" = 1'-0"
Proj. Number 20287.10
Drawing Number GI01

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INTRODUCTION

The project includes a renovation of the existing Scheele Memorial Library for the new School of Health Science at Iona College in Bronxville, NY. The existing building is 2 stories in height with a basement and a footprint area of approximately 11,000 square feet and a total area of 33,000 gross square feet. Spaces in the building include library stacks and reading areas, offices, conference rooms, classrooms, storage and support spaces. The renovation will include new classrooms, offices, meeting areas, and lab spaces.

APPLICABLE CODES

Building	2020 Building Code of New York State (BCNYS), which is an amended version of the 2018 International Building Code (IBC) 2020 Existing Building Code of New York State (EBCNYS), which is an amended version of the 2018 International Existing Building Code (IEBC)
Fire Code	2020 Fire Code of New York State (FCNYS), which is an amended version of the 2018 International Fire Code (IFC)
Plumbing Code	2020 Plumbing Code of New York State (PCNYS), which is an amended version of the 2018 International Plumbing Code (IPC)
Electrical Code	2017 Edition of NFPA 70, *National Electric* Code, as referenced by BCNYS Chapter 35.
Mechanical Code	2020 Mechanical Code of New York State (MCNYS), which is an amended version of the 2018 International Mechanical Code (IMC)
Fuel Gas Code	2020 Fuel Gas Code of New York State (FGCNYS), which is an amended version of the 2018 International Fuel Gas Code (IFGC)
Energy Code	2020 Energy Conservation Construction Code of New York State (ECCCNYS), which is an amended version of the 2018 International Energy Conservation Code (IECC).
Accessibility	BCNYS Chapter 11 and Appendix E 2009 Edition of ICC A 117.1, Accessible and Usable Buildings and Facilities 2010 ADA Standards for Accessible Design
Other	National Fire Protection Association (NFPA) Standards, as referenced by the above codes, including the following: - 2018 NFPA 10: *Standard for Portable Fire Extinguishers* - 2018 NFPA 13: *Standard for the Installation of Sprinkler Systems* - 2016 NFPA 72: *National Fire Alarm and Signaling Code*

EXISTING BUILDING CODE SCOPING REQUIRMENTS

GENERAL REQUIREMENTS:

Portions of an existing building undergoing repair, alteration, addition, or a change of occupancy are subject to the requirements of the EBCNYS and the FCNYS. In general, existing materials and conditions can remain provided they were installed in accordance with the code at the time of original installation and are not deemed a hazardous condition by an authority having jurisdiction (AHJ) (EBCNYS 101.4.2). All new work in existing buildings is required to comply with the materials and methods in accordance with the BCNYS, or the applicable code for new construction unless otherwise specified by the EBCNYS (EBCNYS 702.6). Alterations to an existing building or portion thereof are not permitted to reduce the level of safety currently provided within the building unless a portion altered complies with the requirements of BCNYS for new construction (EBCNYS 701.2).

Where compliance with the requirements of the code for new construction is impractical due to construction difficulties or regulatory conflicts, compliance alternatives may be approved by the building official. Any compliance alternatives being sought are required to be identified on the submittal documents (EBCNYS 104.3).

COMPLIANCE METHOD AND CLASSIFICATION OF WORK REQUIREMENTS:

The EBCNYS has 3 different compliance methods that can be used to evaluate a renovation project:

- Prescriptive Method (EBCNYS Chapter 5)
- Work Area Method (EBCNYS Chapters 6-12)
- Performance Method (EBCNYS Chapter 13)

The Work Area Method has been selected for use on this project (EBCNYS 301.3.2). The project includes the renovation to the existing Scheele Memorial Library to provide a new space for the School of Health Sciences. The work area as part of the project is greater than 50% of the total building area. Therefore, the project is classified as a mix of Level 1, 2, and 3 Alterations, subject to EBCNYS Chapters 7, 8, and 9. No change in occupancy classification or addition is anticipated.

The following are the definitions for each level of work:

Level 1 Alteration – Includes the removal and replacement of the covering of existing materials, elements, equipment, or fixtures using new materials, elements, equipment, or fixtures that serve the same purpose (EBCNYS 602.1).

Level 2 Alteration – Includes the reconfiguration of space, the addition or elimination of any door or window, the reconfiguration or extension of any system, or the installation of any additional equipment in less than 50% of the aggregate building area (EBCNYS 603.1).

Level 3 Alteration – Includes the reconfiguration of space, the addition or elimination of any door or window, the reconfiguration or extension of any system, or the installation of any additional equipment in greater than 50% of the aggregate building area (EBCNYS 604.1).

EXISTING BUILDING CODE ANALYSIS

USE AND OCCUPANCY CLASSIFICATION

The primary occupancies within the existing building consist of library stacks and reading areas (Group A-3). The Second Floor consists of offices, conference rooms, and classrooms (Group B). Storage and support spaces are located at the Lower Level of the building (Group S-2).

The primary occupancies within the renovation consist of meeting areas (Group A-3) and classrooms and offices (Group B). Storage and support spaces are located at the Lower Level of the building (Group S-2).

CONSTRUCTION TYPE

The building is constructed with a mix of steel framing, concrete floors, and noncombustible exterior walls. The original 1970's building was constructed with 1-hour rated construction that is most consistent with Type IIA construction under the current code. The drawings for the 2005 addition calls the construction type of the addition as Type IIIB, non-rated (see below). For the purposes of this renovation the building will be treated as a Type IIB structure.

EXISTING MAIN FLOOR AND LOWER LEVEL	
OCCUPANCY CLASSIFICATIONS:	A-3 : ASSEMBLY (LIBRARY)
CONSTRUCTION TYPE:	2A (1) HR. CONSTRUCTION (BASED ON AS BUILT DRAWINGS FROM 1970'S)
ALLOWABLE HEIGHT AND BUILDING AREAS (PER FLOOR):	2 STORIES & 9,500 SQ FT PER FLOOR
NEW ADDITION & RENOVATED SECOND FLOOR	
OCCUPANCY CLASSIFICATIONS:	B : BUSINESS GROUP (EDUCATIONAL OCCUPANCIES ABOVE THE 12TH GRADE)
CONSTRUCTION TYPE:	2B (0) HR. CONSTRUCTION

HEIGHT AND AREA

Since the project does not include a change in use or an addition, compliance with new construction height and area limitations is not required (EBCNYS 1011.5 & 1102). As shown below, the building complies with the current height and area limitations for a Type IIB structure with Group A-3 and sprinklers throughout (BCNYS 503.1). For the purposes of this evaluation the increases associated with open frontage were not included.

Height Analysis		
Maximum Allowed	**Actual**	**Result**
3 Stories (55 Feet)	2 Stories (29 feet 9 inches)	Complies

Area Analysis		
Maximum Allowed	**Actual**	**Result**
28,500 Square Feet	11,780 Square Feet	Complies
85,500 Gross Square Feet	35,340 Gross Square Feet	Complies

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

The following table indicates the minimum fire-resistance ratings required for the building elements (BCNYS 602). These rating are required to be maintained for new and existing building components (BCNYS 602.1.1):

Fire-Resistance Ratings	
Building Element	**Type IIB**
Primary structural frame	0 Hour [1]
Exterior bearing walls	0 Hour [1,2]
Interior bearing walls	0 Hour [1]
Nonbearing exterior walls	See Exterior Walls Section
Floor construction and secondary members	0 Hour [1]
Roof construction and secondary members	0 Hour

1. Not less than the ratings required for the fire-resistance-rated assemblies supported by the structural members (BCNYS 704.1).
2. Not less than the rating required based on the fire separation distance (BCNYS 602).

EXTERIOR WALLS

Existing exterior walls that are altered are required to meet new construction requirements for exterior wall rating and opening limitations.

The rating and opening limitations are based on the fire separation distance for each wall. Fire separation distance is defined as the distance measured from the building face to the closest interior lot line, the centerline of a street, alley, or public way, or to an imaginary lot line between two building (BCNYS 202 – Fire Separation Distance definition). The distance is required to be measured at right angles from the face of the wall. The following table indicates the fire-resistance ratings and opening limitations required for the exterior walls based on fire separation distance (BCNYS 602 & 705.8).

Nonbearing Exterior Wall Fire Rating and Opening Limitations		
Fire Separation Distance (ft)	**Fire Resistance Rating [1]**	**Allowable Area**
0 ≤ X < 3	1 Hour	Not Permitted
3 ≤ X < 5	1 Hour	15%
5 ≤ X < 10	1 Hour	25%
X ≥ 10	0 Hour	No Limit

1. Load bearing walls require a 1-hour rating (BCNYS 602).

INTERIOR WALLS

The following table Identifies the requirements for new or altered interior walls and partitions throughout the building that are required to be maintained or composed of fire/ smoke resistive assemblies.

Fire/ Smoke Resistive Assemblies		
Type of Assembly	**Construction**	**Code Reference**
Corridors	No rating required	BCNYS 1020.1
Electrical Rooms	2-hour fire barrier	NFPA 13, 8.15.11.2
Shafts	1-hour fire barrier	BCNYS 713.4
Room located under stairs	1-hour fire barrier	BCNYS 1011.7.3

Existing corridors were observed to be 1-hour rated throughout the majority of the Second Floor. These ratings will not be maintained as part of this project since the building will be sprinklered throughout.

DOORS AND FIRE SHUTTERS

New or altered doors, fire shutters, and their corresponding components are required to have fire-resistance ratings and meet the required testing standards as specified in the following table. All doors and fire shutters required to be fire-resistance-rated must be designed, installed, and labeled in accordance with NFPA 80 (BCNYS 716.1):

Fire and Smoke Door Rating Summary Table				
Wall Type	**Required Wall Rating**	**Minimum Fire Door Rating**	**Performance Criteria for Doors/Shutters [1]**	**Code Reference**
Fire barriers	2-hours	1½-hours	NFPA 252 or UL 10C / NFPA 252 or UL 10B	BCNYS Table 716.1(2)

1. All doors are required to be self- or automatic closing and provided with an active latch bolt that will secure the door when it is closed (BCNYS 716.2.6.1).

IDENTIFICATION

Where there is an accessible concealed floor, floor-ceiling or attic space - fire walls, fire partitions, fire barriers, smoke barriers and smoke partitions, or any other wall required to have protected openings or penetrations will be permanently identified with signs/stenciling within the concealed space. Identification will:

- Be located within 15 feet of the end of each wall and at intervals not exceeding 30 feet measured horizontally along the wall or partition.
- Include lettering not less than 3 inches in height with a minimum 3/8-inch stroke in a contrasting color incorporating the suggested wording "FIRE AND/OR SMOKE BARRIER – PROTECT ALL OPENINGS".

PENETRATIONS

Penetration of fire-resistance-rated walls and horizontal assemblies that are not protected with dampers or a shaft are required to comply with this section. Ducts and air transfer openings that are protected by dampers are required to comply with the following section of this evaluation.

Through and membrane penetrations of fire-resistance-rated walls and fire-resistance-rated horizontal assemblies are required to be protected by an approved penetration firestop system installed as tested in accordance with ASTM E 814 or UL 1479, with a minimum positive pressure differential of 0.01 inch of water (BCNYS 714.4 & 714.5). Penetrations of fire-resistance-rated walls must have an F rating of not less than the required fire-resistance rating of the wall penetrated (BCNYS 714.4.1). Penetrations of fire-resistance rated horizontal assemblies must have an F rating/ T rating of not less than 1 hour but not less than the required rating of the floor penetrated (BCNYS 714.5.1.2).

DUCTS AND AIR TRANSFER OPENINGS

Fire and smoke dampers are required where ducts and air transfer openings penetrate walls as specified in the BCNYS. Where dampers are installed, they are required to be listed and bear the label of an approved testing agency (BCNYS 717.3.1). Fire dampers must be tested in accordance with UL 555 and smoke dampers must be tested in accordance with UL 555S. Combination fire/smoke dampers must comply with both test standards.

Fire dampers are required to be rated for 1.5 hours, unless they are installed in a 3-hour or greater assembly, in which case they are required to be 3-hour rated (BCNYS 717.3.2.1). For this project, all fire dampers are expected to be 1.5 hour since there are no 3-hour fire resistance rated walls. Smoke damper leakage ratings must be Class I or II. Elevated temperature ratings must not be less than 250ºF (BCNYS 717.3.2.2). Combination fire/smoke dampers must comply with both rating requirements (BCNYS 717.3.2.3). Refer to the BCNYS 717.3.3 for required damper actuation methods.

Fire, smoke, and fire/smoke dampers are required to be provided with an approved means of access that permits inspection and maintenance of the damper and its operating parts (BCNYS 717.4). Access points are required to have permanent labels with letters that are not less than ½ inch in height that reads "FIRE/SMOKE DAMPER, SMOKE DAMPER, or FIRE DAMPER".

VERTICAL OPENINGS

The building is provided with two exit stairs that are enclosed in 2-hour rated construction. An unenclosed vertical opening is provided between the Lower Level and First Floor that bumps up to the Second Floor via the main stair. The separation of the bump up on the Second Floor includes 1-hour rated and non-rated construction. Since the building will be sprinklered as part of this project, it is not required to be enclosed retroactively. Continued use of the stair as an exit from the Third Floor should be reviewed with the AHJ if needed for egress (EBCNYS 903.1, 802.2.1 Exception 1 & BCNYS 712.1.9). New or altered shafts or vertical openings are required to comply with the code for new construction and be enclosed in construction consistent with the fire/smoke resistive assemblies previously outlined (EBCNYS 801.3).

INTERIOR FINISHES

New and existing interior finishes on walls and ceilings and in exits are required to comply with the code for new construction (EBCNYS 903.3 & 802.4). New interior floor finishes and trims are also required to comply with the code for new construction (EBCNYS 702.2 & 702.3). The following table outlines the minimum new construction interior wall and ceiling finish requirements throughout a sprinklered building.

Interior Wall & Ceiling Finish Requirements			
Occupancy Classification	**Exit Enclosures**	**Corridors, Exit Access Stairways/Ramps**	**Rooms and Enclosed Spaces**
A-3	Class A or B	Class A or B	Class A, B or C
B	Class A or B	Class A, B or C	Class A, B or C
S	Class A, B or C	Class A, B or C	Class A, B or C

1. Interior finishes are grouped in the following classes: Class A – flame spread index 0-25, Class B – flame spread index 26-75, Class C – flame spread index 76-200. All classes must have a smoke-developed index that does not exceed 450 (BCNYS 803.1.2).

New floor finishes and coverings of a traditional type, such as wood, vinyl, linoleum or terrazzo, and resilient floor covering materials that are not comprised of fibers are permitted throughout (BCNYS 804.1 Exception). Newly installed interior floor covering materials are required to comply with the requirements of the DOC FF-1 "pill test" (CPSC 16 CFR Part 1630) (BCNYS 804.4.1 & 804.4.2 Exception).

AUTOMATIC SPRINKLER SYSTEM

An automatic sprinkler system will be installed throughout the building in accordance with NFPA 13 as part of this renovation (EBCNYS 803.2.2 & BCNYS 903.2.1.3).

FIRE EXTINGUISHERS

Fire extinguisher coverage is required to be maintained as necessary to comply with BCNYS and NFPA 10 (BCNYS 906.2).

FIRE ALARM AND DETECTION SYSTEMS

The existing level of fire alarm system coverage and protection is required to be maintained as part of the project (EBCNYS 803.4.1). All new fire alarm devices and any modifications to the existing fire alarm system are required to meet new construction requirements of NFPA 72 relative to their installation.

MEANS OF EGRESS

Existing means of egress in work area are required to comply with Section 905 of the EBCNYS. New means of egress components are required to comply with the BCNYS.

OCCUPANT LOAD

The number of occupants is computed at the rate of one occupant per unit of area as prescribed in the table below (BCNYS 1004.5). The occupant load is permitted to be increased from the occupant load established for the given use where all other requirements of BCNYS are met (BCNYS 1004.5.1). Where approved by the building official, the actual number of occupants is permitted to be used in the determination of the design occupant load (BCNYS 1004.5 Exception).

Occupant Load Factors	
Function of Space	**Occupant Load Factor**
Fixed Seating	Actual number of seats
Bench Seating	18" per occupant
Assembly, Unconcentrated (Tables and Chairs)	15 net
Classrooms	20 net
Vocational Labs	50 net
Office	100 gross
Storage, Building Service Areas	300 gross

EGRESS WIDTH FACTORS

The required egress capacity for any means of egress component is based on the following capacity factors with consideration towards the building's voice evacuation capability (BCNYS 1005.3):

Egress Width Factors	
Stairways (inches of width per person)	**All Other Components (inches of width per person)**
0.3	0.2

NUMBER OF EXITS

The number of exits or access to exits required from every story is not permitted to be less than that specified in the table below (BCNYS 1006.3.2), unless otherwise noted within this report.

Minimum Number of Exits Required	
Occupant Load	**Number of Exits Required**
1 – 500	2
501 – 1,000	3
> 1,000	4

Two exits or exit access doorways are also required to be provided where the occupant load or common path of travel distances in the following table are exceeded (BCNYS Table 1006.2.1 & FCNYS Table 1104.18):

Spaces with One Exit or Exit Access Doorway		
Occupancy	**Maximum Occupant Load**	**Maximum Common Path of Travel Distance**
A	49	75 feet
B	49	100 feet
S-2	29	100 feet

Where two exits or exit access doorways are required from any portion of the exit access as outlined above, the exit doors or exit access doorways are required to be placed a distance apart equal to not less than 1/3 of the length of the maximum overall diagonal dimension of the building or area served (BCNYS 1007.1.1 Exception 2).

Two exit access doorways are required in boiler, incinerator, and furnace rooms where the area is over 500 square feet and any fuel-fired equipment exceeds 400,000 British thermal unit input capacity (BCNYS 1006.2.2.1). For these spaces, the exit doors or exit access doorways are required to be placed a distance apart equal to not less than ½ of the length of the maximum overall diagonal dimension of the area served.

CORRIDORS

The width of corridors is not permitted to be less than that specified in the table below or as determined using the egress factors in the table below based on the occupant load served (BCNYS 1020.2).

Minimum Corridor Width	
Occupancy	**Minimum Width**
Access to and utilization of MEP equipment	24 inches
With a required occupancy capacity < 50 people	36 inches
Any areas not listed above	44 inches

Dead ends located within the work area are not permitted to exceed 35 feet when serving Group A occupancies or 50 feet when serving Groups B or S occupancies (EBCNYS 805.6 Exception 4).

EXIT ACCESS TRAVEL DISTANCE

Exit access travel distances are not permitted to exceed the maximum values specified in the table below (BCNYS 1017.2 & FCNYS Table 1104.18).

Exit Access Travel Distances	
Occupancy	**Maximum Exit Access Travel Distance**
A	250 feet
B	300 feet
S-2	400 feet

DOORS

New doors are required to comply with BCNYS 1010. Existing doors located within the work area are required to comply with EBCNYS 805.4. Major requirements include:

- Minimum clear width of 32" (BCNYS 1010.1.1)
- Level landing on both sides of doors (BCNYS 1010.1.5 & 1010.1.6)
- Swinging in the direction of egress travel with panic hardware when serving more than 49 people (BCNYS 1010.1.2.1 & EBCNYS 805.4.2)
- Doors in a fire-rated wall are required to comply with BCNYS Table 716.2 & NFPA 80.
- Doors within the work area that open into stairway are required to be self-closing or automatic-closing by listed closing devices (EBCNYS 805.4.3).

STAIRS

Stairways are required to be constructed in accordance with BCNYS 1011. Major requirements include:

- Minimum clear width off 44" (BCNYS 1011.2)
- Minimum headroom of 80" (BCNYS 1011.3)
- Maximum 7" riser height (BCNYS 1011.5.2)
- Minimum 11" riser depth (BCNYS 1011.5.2)
- Compliant landings at the top and bottom of runs (BCNYS 1011.6)
- Maximum 12-foot vertical rise between landings (BCNYS 1011.8)
- Handrails within 30" of required egress width (BCNYS 1011.11 & 1014.6).

EXIT ENCLOSURES

Exit enclosures are not permitted to be used for any purpose other than means of egress (BCNYS 1023.1). Openings through an exit enclosure are prohibited except for required exit doors from normally occupied spaces and for egress from the enclosure (BCNYS 1023.4). Penetrations into and openings through an exit enclosure are limited to the equipment serving the stair in accordance with BCNYS 1023.5.

GUARDS

Existing guards are required to have a minimum of 42 inches in height or 30 inches along stairways (FCNYS 1104.6.1). Openings in existing guards are required to prevent a 6" diameter sphere from passing up to a height of 34" (FCNYS 1104.6.2). Existing guards throughout the building were observed to be less than 42" in height with openings larger than 6". These guards are required to be retroactively replaced as part of this project to comply with the code for new construction including a minimum 42" height and less than 4" diameter sphere openings (BCNYS 1015.3 & 1015.4).

EXIT DISCHARGE

A maximum of 50 percent of the number and capacity of exit enclosures are permitted to egress through areas on the level of exit discharge (BCNYS 1028.1 Exception 1). All other exits are required to discharge directly to the exterior. Where exit enclosures egress through areas on the level of exit discharge, the following must be met:

- Occupants are provided with a free and unobstructed path of travel to an exterior egress door and such exits are readily visible and identifiable from the point of termination of the exit enclosure.
- The entire area of the level of exit discharge is separated from areas below by construction having a fire rating equivalent to the exit enclosure served.
- All portions of the egress path are sprinkler protected.

EXIT PASSAGEWAYS

Exit passageways are not permitted to be used for any purpose other than means of egress (BCNYS 1024.1). Exit passageways are required to be enclosed with 2-hour fire rated construction (BCNYS 1024.3) and terminate at an exit discharge or public way (BCNYS 1024.4). Penetrations into and openings through an exit passageway are prohibited except for required exit doors and equipment serving the exit passageway (BCNYS 1023.6).

ACCESSIBLE MEANS OF EGRESS

Accessible means of egress are required to be provided from all accessible spaces. Where more than one means of egress is required from any accessible space, the space must be serviced by not less than two accessible means of egress (BCNYS 1009.1). Each required accessible means of egress is required to be continuous to a public way and consist of one of the building features outlined in BCNYS Section 1009.2. A two-way communication system is required to be provided at the elevator landing on each accessible floor that is one or more stories above or below a story of exit discharge complying with BCNYS 1009.8.

EXIT SIGNAGE

Exit and exit access doors are required to be marked by an approved exit sign readily visible from any direction of egress travel within the work area (EBCNYS 805.8 & BCNYS 1013.1). The path of egress travel to exits and within exits must be marked by readily visible exit signs to clearly indicate the direction of egress travel where the exit or path of travel is not immediately visible. Exit signs within corridors and exit passageways must be placed such that no point is more than 100 feet or the listed viewing distance for the sign, whichever is less, from the nearest visible exit sign. Exit signs are not required in rooms or areas that require only one exit or means of exit access.

EGRESS ILLUMINATION

The means of egress throughout the work area is required to be illuminated at all times the building served by the means of egress is occupied (EBCNYS 805.7 & BCNYS 1008.1). The illumination level is not permitted to be less than 1 foot-candle at the walking surface (BCNYS 1008.2).

In the event of power supply failure, an emergency electrical system is required to automatically illuminate all of the following areas (BCNYS 1008.3):

- Aisles and unenclosed egress stairways in rooms and spaces that require two or more means of egress.
- Corridors and interior exit stairways.
- Interior exit discharge elements.
- Exterior landings for exit discharge doorways.

The emergency power system must provide power for a duration of not less than 90 minutes (BCNYS 1008.3). The initial illumination must be an average of 1 foot-candle and a minimum at any point of 0.1 foot-candle measured along the path of egress at the floor level. Illumination levels are permitted to decline to 0.6 foot-candle average and a minimum of 0.06 foot-candle at the end of the emergency lighting time duration (BCNYS 1008.4). Required illumination shall be arranged so that the failure of any single lamp does not result in an illumination level of less than 0.2 foot-candle at the floor level (BCNYS 1008.2.3).

ACCESSIBILITY

Buildings are subject to compliance with the accessibility regulations in Chapter 11 and Appendix E of the 2020 BCNYS, the 2009 Edition of ICC A 117.1, Accessible and Usable Buildings and Facilities, and the 2010 ADA Standards for Accessible Design.

All altered portions of an existing building are to be readily accessible to and usable by individuals with disabilities to the maximum extent feasible (EBCNYS 305.3, ADA 36.402(a)(1) & ICC A 117.1, 201). Further, alterations to primary function areas should be made such that the level of accessibility, including the path of travel to the space, is made accessible to the maximum extent feasible. When determining if the upgrade is feasible, the requirements state that the upgrade to the path of travel is disproportionate to the project when the cost to perform the work exceeds 20% of the cost of the alteration to the primary function area (EBCNYS 305.6 Exception 2 & ADA 36.403(f)(1)).

ENERGY CODE

Except as specified in the 2018 ECCCNYS, the energy code does not require the removal, alteration or abandonment of, nor prevent the continued use and maintenance of, an existing building or building system law-fully in existence at the time of adoption of this code (ECCCNYS C501.2). Alterations to any building or structure shall comply with the requirements of the code for new construction. Alterations shall be such that the existing building or structure is no less conforming to the provisions of this code than the existing building or structure was prior to the alteration. Alterations to an existing building, building system or portion thereof shall conform to the provisions of this code as those provisions relate to new construction without requiring the unaltered portions of the existing building or building system to comply with this code. Alterations shall not create an unsafe or hazardous condition or overload existing building systems (IECC 503.1). Spaces undergoing a change in occupancy that would result in an increase in demand for either fossil fuel or electrical energy shall comply with the code for new construction (IECC 505.1).

ELEVATOR CODE

Alterations to existing elevators and the installation of new elevators are required to comply with ASME A17.1.

PLUMBING CODE

The occupant load of the building is increasing by more than 20%. Therefore, reevaluation of the existing quantities of plumbing fixtures located throughout the building is required (EBCNYS 809.1).

The minimum number of plumbing fixtures are based upon the use and occupancy classification of the building or space. The actual number of fixtures are calculated in using the calculated occupant load in accordance with BCNYS Section 1004.1.2 unless approved by the code official (PCNYS 403.1). Occupants are permitted to travel one story above or below in order to reach the required fixtures provided that the travel distance does not exceed 500 ft. (PCNYS 403.3.3). Assembly and mercantile occupancies are required to be provided with an accessible family or assisted-use toilet room where an aggregate of six or more male and female water closets are required (BCNYS 1109.2.1). The following table outlines the plumbing fixture requirements for the building.

Pf Plumbing Fixture Factors					
Space	**Toilets**		**Urinals**	**Lavatories**	**Drinking Fountains**	**Service Sink**
	F	**M**		**Per Sex**		
Office	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50		50% substitution	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	1 per 100	1 per floor

Single-user toilet facilities and bathing rooms, and family or assisted-use toilet rooms and bathing rooms shall be identified for use by either sex (PCNYS 403.1.2). Separate facilities are not required for each sex where multi-user facilities are designed for use by both sexes in accordance with PCNYS 403.1.3 (PCNYS 403.2 Exception 6). Where multi-user facilities are designed to serve all genders are provided, urinals are required to be either located in stalls or located in an area visually separate from the remainder of the facility (PCNYS 403.1.3).

PLUMBING FIXTURE OCCUPANT LOAD SUMMARY TABLE					
FLOOR	**SPACE**	**FUNCTION OF SPACE**	**AREA (SF)**	**OCCUPANT LOAD FACTOR**	**OCCUPANT LOAD**
LOWER LEVEL	B	BREAK OUT AREA	96 SF	15 SF	7
LOWER LEVEL	B	BREAK OUT AREA	47 SF	15 SF	4
LOWER LEVEL	B	BREAK OUT AREA	47 SF	15 SF	4
LOWER LEVEL	B	BREAK OUT AREA	47 SF	15 SF	4
LOWER LEVEL	B	BREAK OUT AREA	47 SF	15 SF	4
LOWER LEVEL	B	BREAK OUT AREA	47 SF	15 SF	4
LOWER LEVEL	B	BREAK ROOM	177 SF	15 SF	12
LOWER LEVEL	B	BREAK ROOM	183 SF	15 SF	13
LOWER LEVEL	B	SEMINAR ROOM	247 SF	15 SF	17
LOWER LEVEL	B	SEMINAR ROOM	438 SF	15 SF	30
LOWER LEVEL	B	SEMINAR ROOM	438 SF	15 SF	30
LOWER LEVEL	B	STUDENT LOUNGE	432 SF	15 SF	29
LOWER LEVEL	B	STUDENT LOUNGE	691 SF	15 SF	47
LOWER LEVEL	B	CLASSROOM	979 SF	20 SF	49
LOWER LEVEL	B	CLASSROOM	917 SF	20 SF	46
LOWER LEVEL	B	STAIR SEATING	142 SF	1,800 SF	40
			4,975 SF		340
FIRST FLOOR	B	BREAK OUT AREA	58 SF	15 SF	4
FIRST FLOOR	B	COLLABORATIVE AREA	176 SF	15 SF	12
FIRST FLOOR	B	GROUP THERAPY	484 SF	15 SF	33
FIRST FLOOR	B	GROUP THERAPY	484 SF	15 SF	33
FIRST FLOOR	B	STUDY AREA	170 SF	15 SF	12
FIRST FLOOR	B	FACULTY TOUCHDOWN	1,063 SF	100 SF	11
FIRST FLOOR	B	STAIR SEATING	127 SF	1,800 SF	40
			2,562 SF		145
SECOND FLOOR	B	COLLABORATION SPACE	568 SF	15 SF	38
SECOND FLOOR	B	DEBRIEF ROOM	246 SF	15 SF	17
SECOND FLOOR	B	DEBRIEF ROOM	243 SF	15 SF	17
SECOND FLOOR	B	LAB	673 SF	50 SF	14
SECOND FLOOR	B	LAB	895 SF	50 SF	18
SECOND FLOOR	B	LAB	1,151 SF	50 SF	24
SECOND FLOOR	B	LAB	834 SF	50 SF	17
SECOND FLOOR	B	LAB	387 SF	50 SF	8
SECOND FLOOR	B	LAB	872 SF	50 SF	18
SECOND FLOOR	B	LAB	138 SF	50 SF	3
SECOND FLOOR	B	LAB	127 SF	50 SF	3
SECOND FLOOR	B	OFFICE	3,095 SF	100 SF	31
			9,226 SF		208
			16,763 SF		693

PLUMBING FIXTURE CALCULATIONS								
Floor		**Classification**	**Water Closets**		**Male Urinals [A]**	**Lavatories**	**Drinking Fountains**	**Service Sink**
			Female	**Male**				
Entire Building	**693**	B	1 per 25 for the first 50 and 1 per 50 for the remainder		0.50	1 per 40 for the first 80 and 1 per 80 for the remainder	1 per 100	1 per Floor
		Required fixtures	7.93	7.93	3.97	5.33	6.93	1
	Total Required Fixtures		**8**	**8**	**3**	**6**	**7**	**3**
	Total Provided Fixtures		**9**	**8**	**0**	**6f/ 7M**	**8**	**3**

A. Permitted to be substituted for male water closets

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171 White Plains Rd,
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KEYPLAN

Number	Date	Issued For

CODE SUMMARY

Date: 04/07/2022
Scale:
Proj. Number: 20287.10

Drawing Number: LS100

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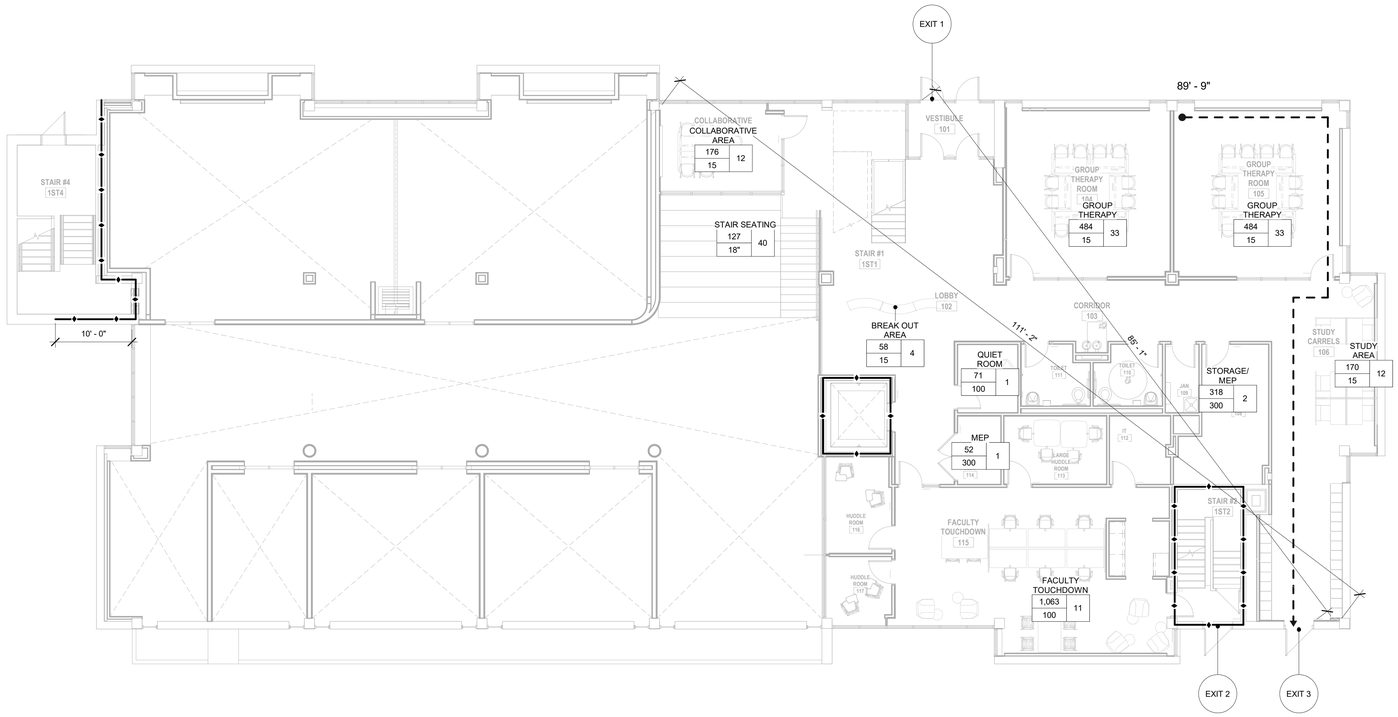
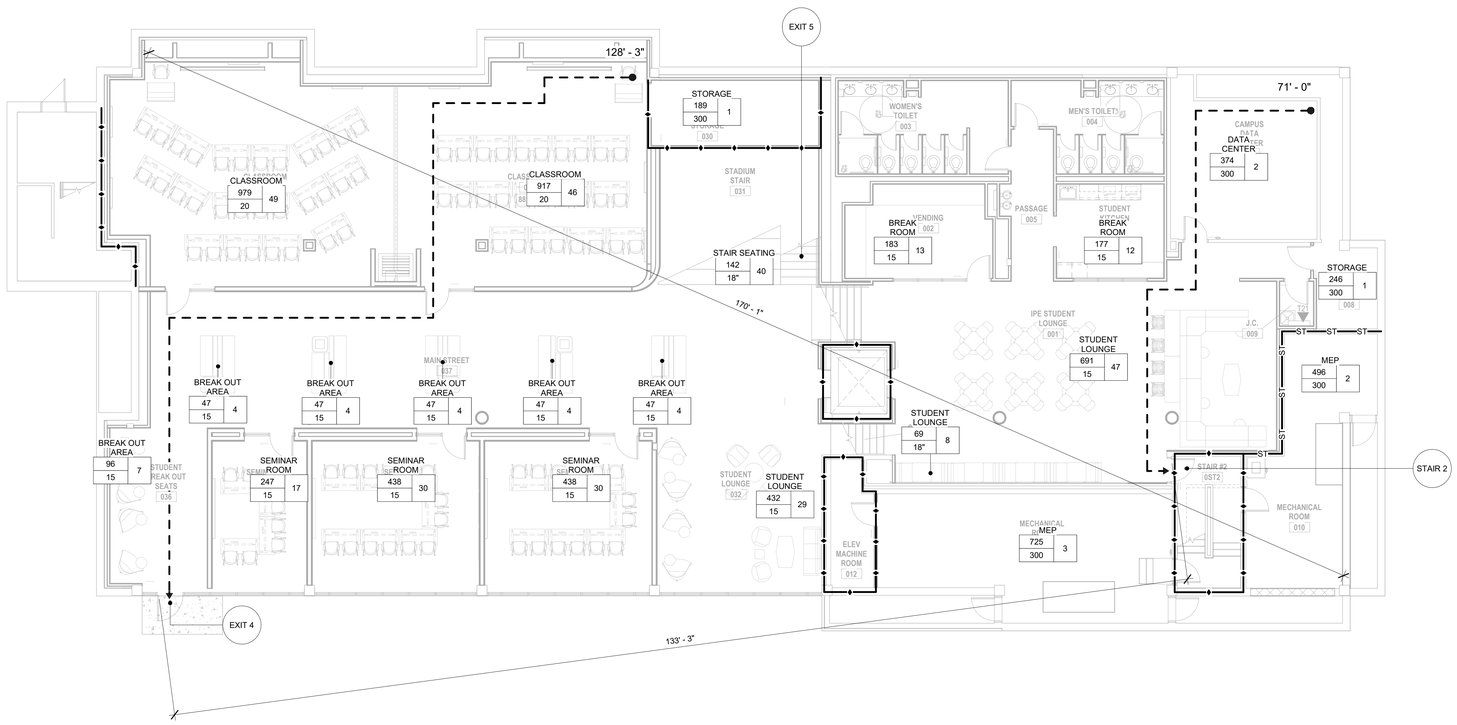


1C FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"



1E BASEMENT / LOWER LEVEL LIFE SAFETY PLAN
1/8" = 1'-0"

LIFE SAFETY LEGEND

WALL RATINGS

SMOKE TIGHT CONSTRUCTION (NON-RATED) . . . —ST—

1-HOUR FIRE BARRIER (45 MIN./60 MIN.*) . . . . . —•—

WALL RATINGS SHOWN FOLLOWED BY OPENING PROTECTION REQUIREMENTS IN PARENTHESES

* 60-MINUTE OPENING PROTECTIVES REQUIRED FOR DOORS SERVING 1-HOUR EXIT ENCLOSURES AND 1-HOUR SHAFTS

EXIT TAG

EXIT DESIGNATION → EXIT 1

TRAVEL DISTANCES

TRAVEL DISTANCE TO EXIT •- - - → XX'

OCCUPANT LOAD TAG

ROOM NAME → SAMPLE ROOM

AREA (SF) → 1,000

OCCUPANT LOAD FACTOR → 100

OCCUPANT LOAD → 10

OCCUPANT LOAD SUMMARY TABLE - FIRST FLOOR

FUNCTION OF SPACE	AREA (SF)	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
BREAK OUT AREA	58 SF	15 SF	4
COLLABORATIVE AREA	176 SF	15 SF	12
GROUP THERAPY	968 SF	15 SF	66
STUDY AREA	170 SF	15 SF	12
FACULTY TOUCHDOWN	1,063 SF	100 SF	11
QUIET ROOM	71 SF	100 SF	1
MEP	52 SF	300 SF	1
STORAGE/ MEP	318 SF	300 SF	2
STAIR SEATING	127 SF	18 IN.	40
	3,003 SF		149

EXIT CAPACITY SUMMARY TABLE - FIRST FLOOR

EXIT #	DOOR WIDTH (INCHES)	DOOR CAPACITY (PERSONS)	STAIR WIDTH (INCHES)	STAIR CAPACITY (PERSONS)	LIMITING CAPACITY (PERSONS)	ACTUAL USE (PERSONS)
EXIT 1	66	330			330	71
EXIT 2	33	165			165	6
EXIT 3	39	195			195	72
					690	149

OCCUPANT LOAD SUMMARY TABLE - BASEMENT / LOWER LEVEL

FUNCTION OF SPACE	AREA (SF)	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
BREAK OUT AREA	332 SF	15 SF	27
BREAK ROOM	359 SF	15 SF	25
SEMINAR ROOM	1,123 SF	15 SF	77
STUDENT LOUNGE	1,123 SF	15 SF	76
CLASSROOM	1,896 SF	20 SF	95
DATA CENTER	374 SF	300 SF	2
MEP	1,221 SF	300 SF	5
STORAGE	435 SF	300 SF	2
STAIR SEATING	142 SF	18 IN.	40
STUDENT LOUNGE	69 SF	18 IN.	8
	7,074 SF		357

EXIT CAPACITY SUMMARY TABLE - BASEMENT / LOWER LEVEL

EXIT #	DOOR WIDTH (INCHES)	DOOR CAPACITY (PERSONS)	STAIR WIDTH (INCHES)	STAIR CAPACITY (PERSONS)	LIMITING CAPACITY (PERSONS)	ACTUAL USE (PERSONS)
EXIT 4	37	185			185	155
EXIT 5			30 *	100	100	83
STAIR 2	33	165	44	146	146	119
					431	357

* THE CAPACITY OF THE STAIR IS LIMITED TO 30" SINCE ONLY ONE HANDRAIL IS PROVIDED (BCNYS 1014.9).

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171 White Plains Rd,
Bronxville, NY 10708

KEYPLAN

Number	Date	Issued For

BASEMENT / LOWER LEVEL AND FIRST FLOOR LIFE SAFETY PLAN

Date: 04/07/2022
Scale: As indicated
Proj. Number: 20287.10

Drawing Number: LS101

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LIFE SAFETY LEGEND

WALL RATINGS

SMOKE TIGHT CONSTRUCTION (NON-RATED) . . . — ST —

1-HOUR FIRE BARRIER (45 MIN./60 MIN.*) . . . . . — 1 —

WALL RATINGS SHOWN FOLLOWED BY OPENING PROTECTION REQUIREMENTS IN PARENTHESES

* 60-MINUTE OPENING PROTECTIVES REQUIRED FOR DOORS SERVING 1-HOUR EXIT ENCLOSURES AND 1-HOUR SHAFTS

EXIT TAG

EXIT DESIGNATION → EXIT 1

TRAVEL DISTANCES

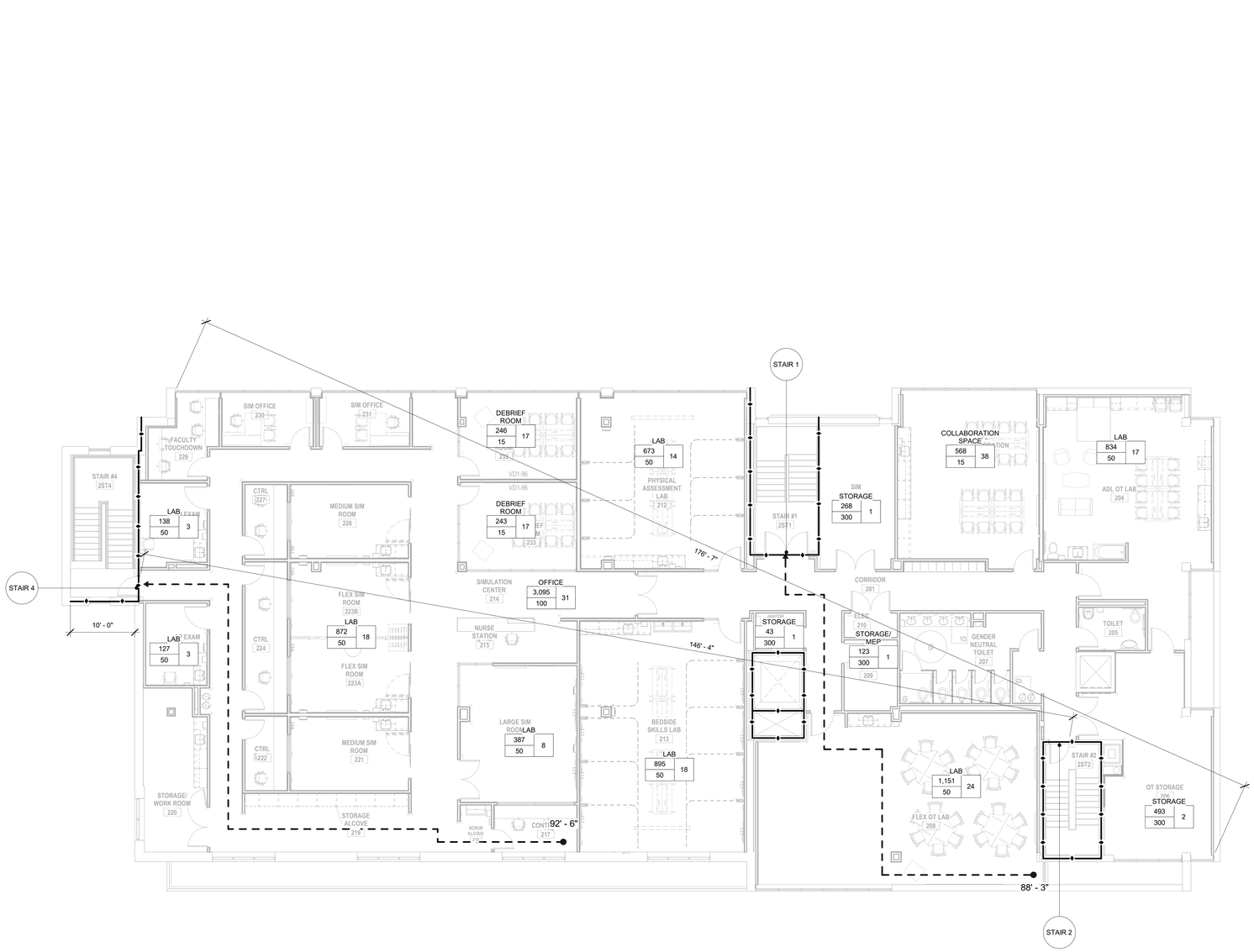
TRAVEL DISTANCE TO EXIT ● - - - → XX'

OCCUPANT LOAD TAG

ROOM NAME → SAMPLE ROOM

AREA (SF) → 1,000 | 10 ← OCCUPANT LOAD

OCCUPANT LOAD FACTOR → 100



1E SECOND FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

OCCUPANT LOAD SUMMARY TABLE - SECOND FLOOR

FUNCTION OF SPACE	AREA (SF)	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
COLLABORATION SPACE	568 SF	15 SF	38
DEBRIEF ROOM	489 SF	15 SF	34
LAB	5,074 SF	50 SF	105
OFFICE	3,095 SF	100 SF	31
STORAGE	804 SF	300 SF	4
STORAGE/ MEP	123 SF	300 SF	1
	10,153 SF		213

EXIT CAPACITY SUMMARY TABLE - SECOND FLOOR

EXIT #	DOOR WIDTH (INCHES)	DOOR CAPACITY (PERSONS)	STAIR WIDTH (INCHES)	STAIR CAPACITY (PERSONS)	LIMITING CAPACITY (PERSONS)	ACTUAL USE (PERSONS)
STAIR 1	74	370	54	180	180	71
STAIR 2	33	165	44	146	146	71
STAIR 4	33	165	52	173	165	71
					491	213

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SECOND FLOOR LIFE SAFETY PLAN

Date: 04/07/2022
Scale: As indicated
Proj. Number: 20287.10
Drawing Number: LS102

GENERAL NOTES

1. CONTRACTOR SHALL LAYOUT PIPE ALIGNMENT IN THE FIELD AND ENSURE UTILITY CONFLICTS ARE NOT PRESENT BY DIGGING TEST PITS. IF UTILITY CONFLICTS ARE IDENTIFIED IN THE FIELD, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, WHO WILL PROVIDE ADJUSTMENT IN THE ALIGNMENT AS NECESSARY.

WATER NOTES

1. ALL WATER SERVICES SHALL BE CLASS 52 CEMENT LINED TYTON JOINT DUCTILE IRON PIPE, PUSH ON (RUBBER GASKET) TYPE AND INSTALLED WITH 2 BRONZE WEDGES FOR CONTINUOUS ELECTRICAL CONDUCTIVITY PER JOINT. PIPE SHALL BE CEMENT LINED (DOUBLE THICKNESS) WITH PAINT SEAL COAT AND TAR COATED ON THE OUTSIDE. ALL PIPE AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWWA/ANSI STANDARD C600, C150/A21.50, C151/A21.51, C110.A21.10 AND C104/A21.4.
2. THE INSTALLATION OF ALL DUCTILE IRON WATER MAIN SHALL CONFORM TO ANSI/AWWA SPECIFICATION C600-05, OR LATEST REVISION.
3. ALL WATER MAIN FITTINGS SHALL BE CLASS 350 DUCTILE IRON AND FULL GRAY IRON FITTINGS CONFORMING TO ANSI/AWWA C110/A21.10-93 SPECIFICATIONS OR CLASS 350 DUCTILE IRON COMPACT FITTINGS CONFORMING TO ANSI/AWWA C153/A21.53-88 SPECIFICATIONS WITH PLAIN RUBBER GASKETS CONFORMING TO ANSI/AWWA C111/A21.11-85 SPECIFICATIONS. FITTINGS SHALL BE CEMENT LINED (DOUBLE THICKNESS) WITH PAINT SEAL AND TAR COATED ON THE OUTSIDE.
4. ALL GATE VALVES SHALL BE US PIPE VALVE & HYDRANT DIVISION RESILIENT WEDGE GATE VALVES, MECHANICAL JOINT WITH 2" SQUARE OR NUT TO SHOW THE DIRECTION OF OPENING. VALVES TO OPEN RIGHT OR CLOCKWISE, ALL BONNET AND STUFFING BOX BOLTS SHALL BE STAINLESS STEEL. THE RESILIENT WEDGE VALVES SHALL FULLY COMPLY WITH THE LATEST VERSION OF AWWA C-509 AND SHALL BE UL LISTED & FM APPROVED. REDUCED WALL VALVES (C-515) ARE NOT ACCEPTABLE. VALVES SHALL BE DESIGNED FOR 350 PSI WORKING PRESSURE.
5. ALL TAPPING SLEEVES FOR DUCTILE IRON AND CAST IRON PIPE SHALL BE AN EPOXY COATED STEEL TAPPING SLEEVE WITH A MECHANICAL JOINT OUTLET OPTION WITH STAINLESS STEEL HARDWARE. THE TAPPING SLEEVE SHALL BE IN COMPLIANCE WITH ANSI/NSF STANDARD 61. THE CONTRACTOR SHALL DIG A TEST PIT OVER THE MAIN TO CONFIRM THE ACTUAL OUTSIDE DIAMETER OF THE PIPE PRIOR TO ORDERING GASKETS OR MOUNTING THE SLEEVE. TAPPING VALVES SHALL CONFORM TO ALL THE GATE VALVE STANDARDS AND SHALL HAVE A MECHANICAL JOINT FOR ATTACHMENT TO A SLEEVE.
6. ALL RETAINER GLANDS SHALL BE MECHANICAL JOINT WEDGE ACTION RESTRAINTS FOR DUCTILE IRON PIPE. THE GLANDS SHALL BE MADE FROM HIGH STRENGTH DUCTILE IRON PER ASTM A536, GRADE 65-45-12 AND SHALL BE COMPATIBLE WITH ALL MECHANICAL JOINTS CONFORMING TO ANSI/AWWA C111/A21.11. THE WEDGE ASSEMBLY SHALL BE DESIGNED WITH A BREAK-OFF TORQUE CONTROL NUT THAT WILL ONLY BREAK OFF IN ONE DIRECTION, ENSURING PROPER INSTALLATION. THE RETAINER GLAND SHALL OFFER A FULL 5° DEFLECTION THROUGH 12" SIZE. THE RETAINER GLANDS SHALL BE DESIGNED WITH A MINIMUM SAFETY FACTOR OF 2:1 AND SHALL BE LISTED WITH UNDERWRITERS LABORATORIES INC. AND SIZES 3-12" ARE APPROVED BY FACTORY MUTUAL RESEARCH. THE WEDGES ARE HEAT TREATED TO A MINIMUM OF 370 BHN.
7. ALL PRESSURE/FLUSHING/DISINFECTION TAPS AND CURB STOPS SHALL COMPLY WITH ANSI/AWWA C800-89 SPECIFICATIONS. CURB STOPS SHALL BE FORD METER BOX CO. MODEL #B22-333-NL FLARE OR #B-22-777-NF FLARE AND CORPORATION STOPS SHALL BE FORD METER BOX CO. MODEL #FB600-3-NL OR #FB600-7-NL.
8. ALL VALVE BOXES (3" AND LARGER) SHALL BE 5-1/4" SHAFT 3 PIECE VALVE BOXES (GENUINE BUFFALO STYLE CAST IRON) SLIDE TYPE CONSISTING OF TOP SECTION AND COVER MARKED WATER, MIDDLE SECTION AND BASE AS MANUFACTURED BY BINGHAM AND TAYLOR.
9. ALL WATER MAINS SHALL BE SUBJECTED TO A MINIMUM HYDROSTATIC TEST OF 150 PERCENT OF THE WORKING PRESSURE IN THE PROJECT AREA FOR A PERIOD OF 2 HOURS AND IN ACCORDANCE WITH ANSI AWWA SPECIFICATION C600-05, OR LATEST REVISION. THE PRESSURE TEST SHALL BE MADE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. 48 HOURS NOTICE SHALL BE GIVEN TO THE OWNER SO ARRANGEMENTS CAN BE MADE FOR THE REPRESENTATIVE TO WITNESS THE TEST.
10. ALL WATER MAIN SHALL BE DISINFECTED AS DESCRIBED IN SECTION 18 OF THE SPECIFICATIONS, AND SHALL CONFORM TO ANSI AWWA C651-05, OR LATEST REVISION, EXCEPT THAT C-651: SECTION 4.4.2; THE TABLET METHOD, SHALL NOT BE UTILIZED. DISINFECTION WILL BE ACCOMPLISHED BY MEANS OF A POSITIVE DISPLACEMENT HYPOCHLORITE PUMP, OR A GAS CHLORINATOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING 1" CORPORATION VALVES AS FOLLOWS:
    - 11.1. AT A LOCATION LESS THAN 10 FEET FROM THE BEGINNING OF THE NEW MAIN FOR DISINFECTION PURPOSES.
    - 11.2. AS REQUIRED FOR PROPER DISINFECTION AND PRESSURE TESTING BASED UPON WESTCHESTER COUNTY DEPARTMENT OF HEALTH AND SUEZ WATER WESTCHESTER REQUIREMENTS.
12. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE EXISTENCE OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES IN THE PROJECT AREA.
13. WATER SERVICES SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY OR STORM SEWER LINE. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A 10 FOOT SEPARATION, THE DESIGN ENGINEER MAY ALLOW DEVIATION WITH PRIOR APPROVAL ON A CASE-BY-CASE BASIS.
14. WATER MAINS CROSSING SANITARY OR STORM SEWER LINES SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FOR THE WATER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE. THE VERTICAL SEPARATION ALSO APPLIES TO WATER SERVICE CONNECTIONS. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN 18 INCHES SEPARATION, THE DESIGN ENGINEER MAY ALLOW DEVIATION WITH PRIOR APPROVAL ON A CASE-BY-CASE BASIS.
15. THE CONTRACTOR SHALL NOT PLACE ANY JOINTS WITHIN 5' OF ANY STORM OR SANITARY SEWER CROSSINGS.

20 0 5 10 20
SCALE: 1 INCH = 20 FEET

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Number	Date	Issued For

UTILITY PLAN

Date: 04/07/2022
Scale:
Proj. Number: 20287.10
Drawing Number: CU101

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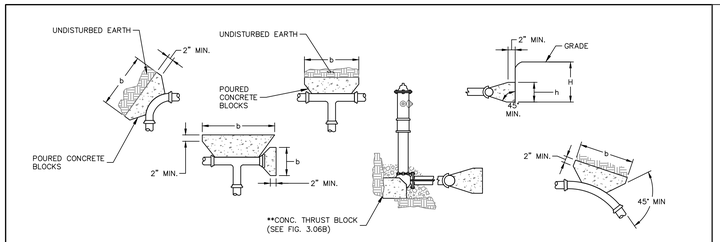
Date: 4/5/2022 Time: 17:31 User: jkelley Style Table: Langan.stb Layout: 01 Fire Servivce Line Plan Document Code: 190074104-0501-CU101-0101



NOTES:
TO DETERMINE THRUST AT PRESSURES OTHER THAN 100 PSI, MULTIPLY THE THRUST OBTAINED IN THE TABLE BY THE RATIO OF THE PRESSURE TO 100

BEARING AREA (SF) = THRUST FORCE AT FITTING (LB.S) / BEARING CAPACITY OF UNDISTURBED SOIL (LB.S/S.F.)

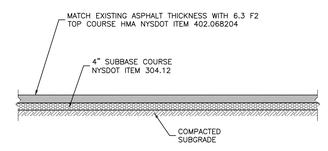
GRAVITY BLOCK SIZE (C.F.) = THRUST FORCE AT FITTING (LB.S) / CONCRETE DENSITY 145 (LB.S/C.F.)

NOTES:
1. PLACE 8 MIL POLYETHYLENE BETWEEN CONCRETE AND FITTING (CONCRETE SHALL NOT INTERFERE WITH JOINT)
2. MINIMUM CONCRETE THICKNESS WILL BE 12 INCHES
   THE HORIZONTAL DIMENSION (b) OF THE BEARING AREA SHALL BE BETWEEN 1.0 AND 2.0 TIMES THE VERTICAL DIMENSION (h) (h<=b<=2h)
3. THE VERTICAL DIMENSION (h) OF THE BEARING AREA SHALL BE EQUAL TO ONE-HALF THE TOTAL DEPTH (H) TO THE BOTTOM OF THE THRUST BLOCK BUT NOT LESS THAN THE OUTSIDE DIAMETER (Do) OF THE FITTING (Do<=h<=H/2)
4. THRUST BLOCK ORIENTATION SHALL BE SUCH THAT THE CENTER OF FITTING CORRESPONDS WITH THE CENTER OF THE THRUST BLOCK
5. THE MINIMUM ALLOWABLE ANGLE (EITHER VERTICAL OR HORIZONTAL) SHALL BE 45 DEGREES

RESULTANT THRUST FORCE AT FITTINGS AT 100 PSI WATER PRESSURE

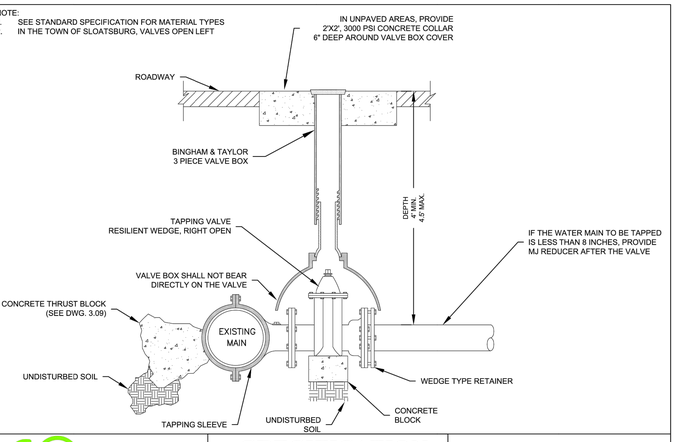
NOM. PIPE DIA. (IN)	DEAD END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
3	1,232	1,742	943	481	241
4	1,810	2,559	1,385	706	355
*6	3,739	5,288	2,862	1,459	733
8	6,433	9,097	4,923	2,510	1,261
10	9,677	13,685	7,406	3,776	1,897
12	13,685	19,535	10,474	5,340	2,683
14	18,385	26,001	14,072	7,174	3,604
16	23,779	33,628	18,199	9,278	4,661
18	29,865	42,235	22,858	11,653	5,855
20	36,644	51,822	28,046	14,298	7,183
24	52,279	73,934	40,013	20,398	10,249
30	80,425	113,738	61,554	31,380	15,766
36	115,209	162,931	88,177	44,952	22,585
42	155,528	219,950	119,036	60,684	30,489
48	202,683	280,637	155,127	79,083	39,733
54	260,214	367,999	199,160	101,531	51,011
60	298,121	42,606	228,172	116,321	58,442
64	338,707	479,004	259,235	132,157	66,398

TYPICAL THRUST BLOCKING
SCALE: NTS



ASPHALT PATH DETAIL
SCALE: NTS

NOTE:
1. SEE STANDARD SPECIFICATION FOR MATERIAL TYPES
2. IN THE TOWN OF SLOATSBURG, VALVES OPEN LEFT



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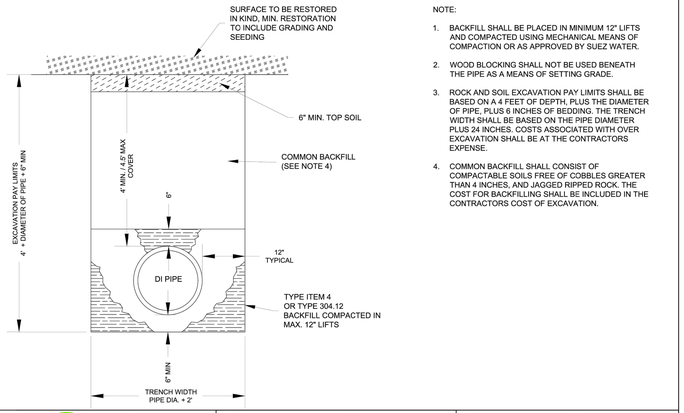
SPECIFICATION DETAILS	TAPPING EXISTING WATER MAIN	
INSTALLATION OF WATER SYSTEMS APPURTENANCES	DRAFTED BY : AR APPROVED BY: SWNY DIV. NB	FIGURE 3.05
	SCALE: NTS	DATE: 1/1/19



NOTE:
1. BACKFILL SHALL BE PLACED IN MINIMUM 12" LIFTS AND COMPACTED USING MECHANICAL MEANS OF COMPACTION OR AS APPROVED BY SUEZ WATER.
2. WOOD BLOCKING SHALL NOT BE USED BENEATH THE PIPE AS A MEANS OF SETTING GRADE.
3. ROCK AND SOIL EXCAVATION PAY LIMITS SHALL BE BASED ON A 4 FEET OF DEPTH, PLUS THE DIAMETER OF PIPE, PLUS 6 INCHES OF BEDDING. THE TRENCH WIDTH SHALL BE BASED ON THE PIPE DIAMETER PLUS 24 INCHES. COSTS ASSOCIATED WITH OVER EXCAVATION SHALL BE AT THE CONTRACTORS EXPENSE.
4. COMMON BACKFILL SHALL CONSIST OF COMPACTABLE SOILS FREE OF COBBLES GREATER THAN 4 INCHES, AND JAGGED RIPPED ROCK. THE COST FOR BACKFILLING SHALL BE INCLUDED IN THE CONTRACTORS COST OF EXCAVATION.

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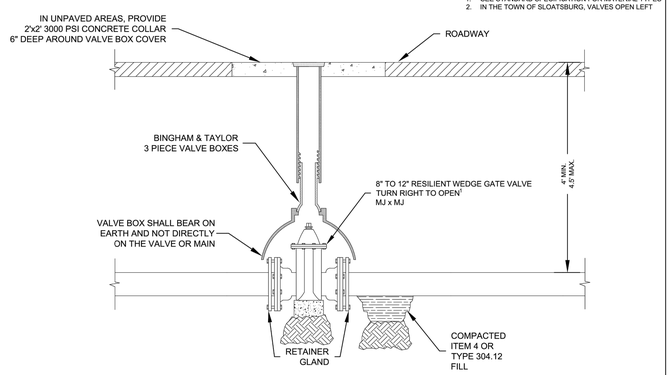
SPECIFICATION DETAILS	WATER MAIN TRENCH DETAIL UNPAVED AREAS COUNTY OF ROCKLAND, ORANGE, & TIOGA	
INSTALLATION OF WATER SYSTEMS APPURTENANCES	DRAFTED BY : AR APPROVED BY: SWNY DIV. NB	FIGURE 3.11
	SCALE: NTS	DATE: 1/1/19

NOTE:
1. SEE STANDARD SPECIFICATION FOR MATERIAL TYPES
2. IN THE TOWN OF SLOATSBURG, VALVES OPEN LEFT



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SPECIFICATION DETAILS	IN-LINE GATE VALVE INSTALLATION	
INSTALLATION OF WATER SYSTEMS APPURTENANCES	DRAFTED BY : AR APPROVED BY: SWNY DIV. NB	FIGURE 3.08
	SCALE: NTS	DATE: 1/1/19

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

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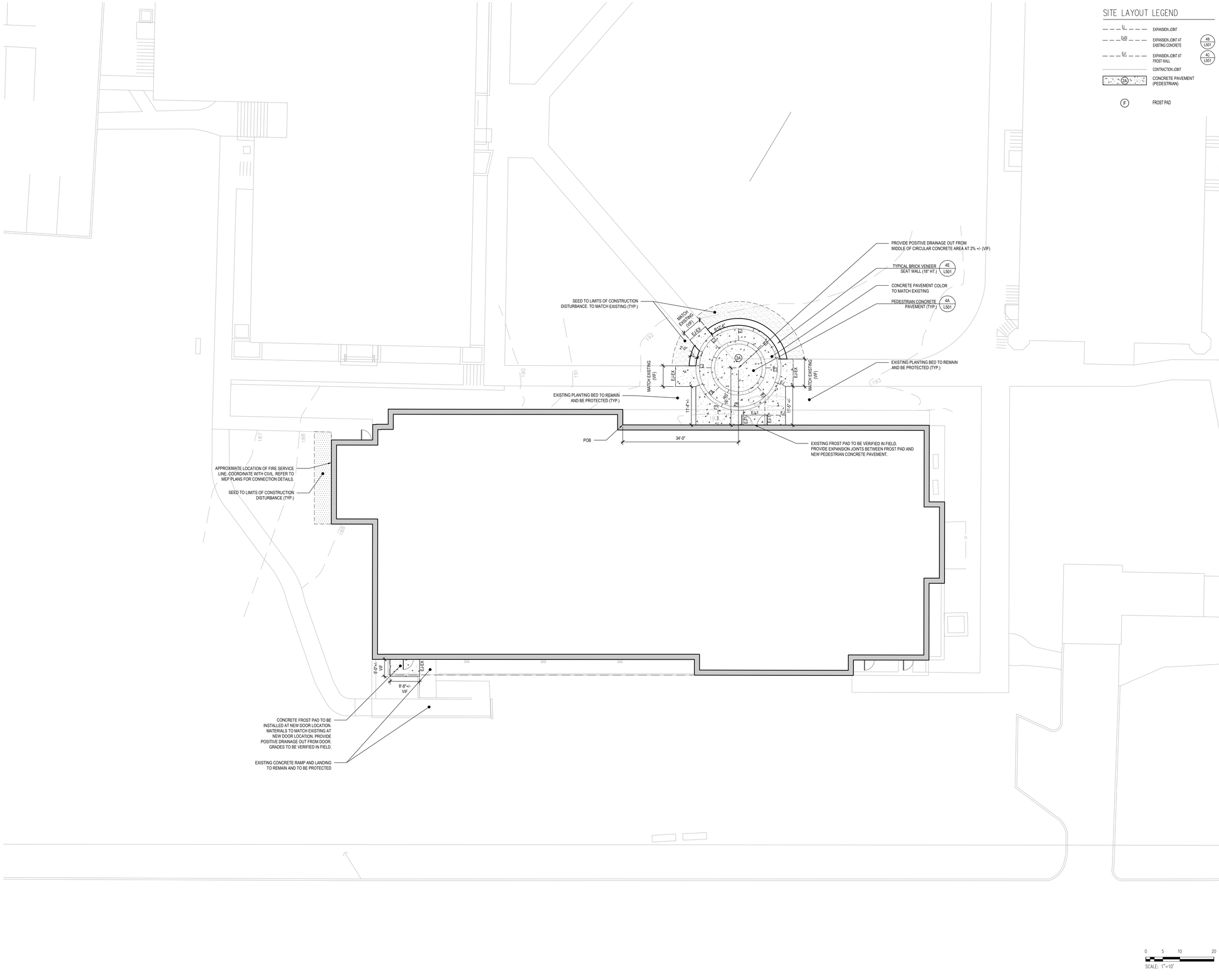
KEYPLAN

Number	Date	Issued For

SITE DETAILS

Date: 04/07/2022
Scale:
Proj. Number: 20287.10

Drawing Number: CS501



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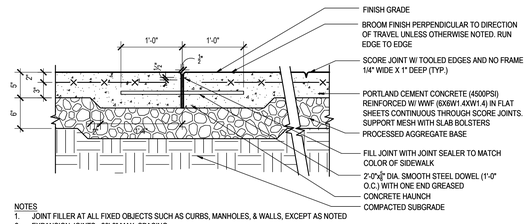
KEYPLAN

Number	Date	Issued For

SITE PLAN

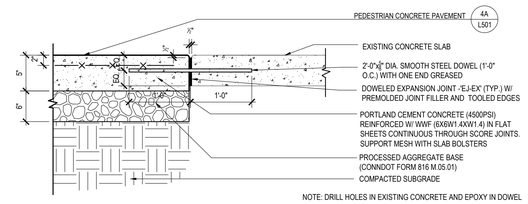
Date
04/07/2022
Scale
1" = 10'
Proj. Number
20287.10

Drawing Number
L202



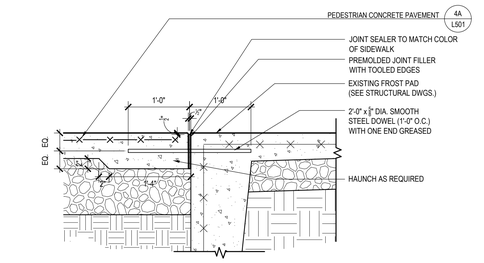
NOTES
1. JOINT FILLER AT ALL FIXED OBJECTS SUCH AS CURBS, MANHOLES, & WALLS, EXCEPT AS NOTED
2. EXPANSION JOINTS - 20'-0" MAX. SPACING.

4A PEDESTRIAN CONCRETE PAVEMENT
1" = 1'-0"

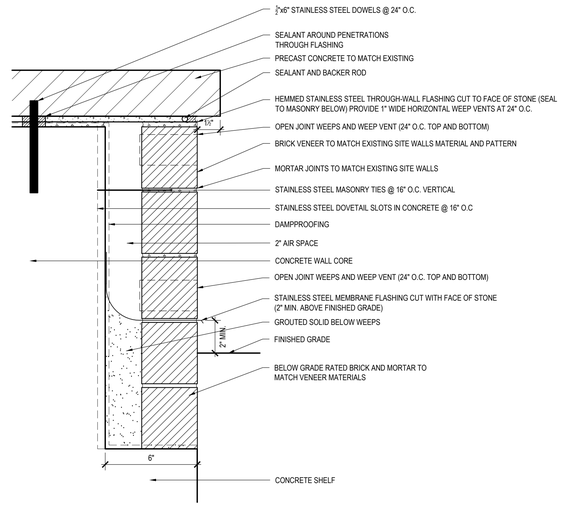


NOTE: DRILL HOLES IN EXISTING CONCRETE AND EPOXY IN DOWEL

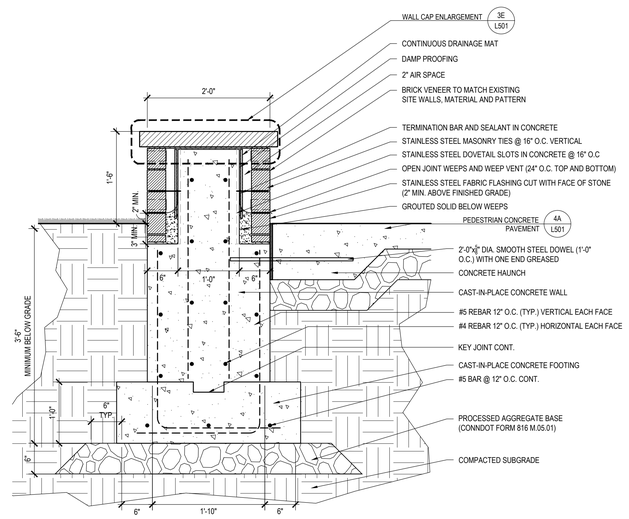
4B CONCRETE ADJACENT TO EXISTING CONCRETE SIDEWALK (EJ-EX)
1" = 1'-0"



4C EXISTING FROST PAD AT CONCRETE WALK (EJ-1)
1" = 1'-0"



3E TYPICAL CAST STONE CAP AND BRICK VENEER ENLARGEMENT
3" = 1'-0"



4E TYPICAL BRICK VENEER SEAT WALL
1" = 1'-0"

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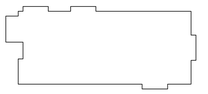


KEYPLAN

Number	Date	Issued For

SITE DETAILS

Date: 04/07/2022
Scale: AS SHOWN
Proj. Number: 20287.10

Drawing Number: L501

STRUCTURAL GENERAL NOTES

A. **CODES AND STANDARDS:**
THE FOLLOWING CODES AND STANDARDS, AND ALL REFERENCED STANDARDS THEREIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, AND QUALITY CONTROL OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE. SAFETY AND CONSTRUCTION MEANS AND METHODS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

1. 2020 BUILDING CODE OF NEW YORK STATE
2. INTERNATIONAL BUILDING CODE, 2018
3. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (SEI/ASCE 7-16), AMERICAN SOCIETY OF CIVIL ENGINEERS
4. "STEEL CONSTRUCTION MANUAL" 15TH EDITION, 2017, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (INCLUDING SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS)
5. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI 318-14, AMERICAN CONCRETE INSTITUTE

B. **DESIGN DATA:**
1. FLOOR LIVE LOAD:

	AREA	UNIFORM LOAD	CONC. LOAD	LL REDUCIBLE?	IMPACT LOAD
a.	OFFICES	50 psf	2,000 lbs	Yes	N/A
b.	CLASSROOMS	40 psf	1,000 lbs	Yes	N/A
c.	FIRST FLOOR CORRIDORS	100 psf	1,000 lbs	Yes	N/A
d.	CORRIDORS ABOVE FIRST FLOOR	80 psf	1,000 lbs	Yes	N/A
e.	STAIRS AND EXIT WAYS	100 psf	300 lbs	Yes	N/A
f.	ELEVATOR MACHINE ROOM	150 psf (USE WEIGHT OF ACTUAL EQUIPMENT WHEN GREATER)			
g.	KITCHENS	150 psf (USE WEIGHT OF ACTUAL EQUIPMENT WHEN GREATER)			
h.	RESTROOMS	60 psf			
i.	STORAGE WAREHOUSE, LIGHT	125 psf	N/A	No	N/A
j.	ASSEMBLY FIXED SEATS	60 psf	N/A	No	N/A
k.	ASSEMBLY MOVABLE SEATS,	100 psf	N/A	No	N/A

2. ROOF LIVE LOAD:
(ROOF SNOW LOAD GOVERNS DESIGN)

3. ROOF SNOW LOAD:
   a. GROUND SNOW LOAD, P_g = 20 psf
   b. FLAT ROOF SNOW LOAD, P_f = 15.4 psf
   c. SNOW EXPOSURE FACTOR, C_e = 1.0
   d. SNOW LOAD IMPORTANCE FACTOR, I_s = 1.1
   e. THERMAL FACTOR, C_t = 1.0
   f. SLOPE FACTOR, C_s = N/A
   g. DRIFT SURCHARGE LOADS, N/A

4. WIND LOAD:
   a. BASIC WIND SPEED (3 SECOND GUST) MPH, V_{ult} = 130 mph
   b. NOMINAL DESIGN WIND SPEED MPH, V_{asd} = 101 mph
   c. RISK CATEGORY III
   d. WIND EXPOSURE B
   e. INTERNAL PRESSURE COEFFICIENT GC_{pi} = ± 0.18
   f. COMPONENTS AND CLADDING:
      • WIND DIRECTIONALITY FACTOR, K_d = 0.85
      • TOPOGRAPHIC FACTOR, K_{zt} = 1.0
      • WIND PRESSURES, N/A

5. EARTHQUAKE DESIGN DATA:
   a. RISK CATEGORY III
   b. SEISMIC IMPORTANCE FACTOR, I_e = 1.25
   c. MAPPED SPECTRAL RESPONSE COEFFICIENTS S_s = 0.300 S_1 = 0.060
   d. SOIL SITE CLASS D
   e. DESIGN SPECTRAL RESPONSE COEFFICIENTS, S_{ds} = 0.312 S_{d1} = 0.096
   f. SEISMIC DESIGN CATEGORY B
   g. BASIC SEISMIC FORCE RESISTING SYSTEM N/A
   h. DESIGN BASE SHEAR V = N/A
   i. SEISMIC RESPONSE COEFFICIENT, C_s = N/A
   j. RESPONSE MODIFICATION FACTOR, R = N/A
   k. DEFLECTION AMPLIFICATION FACTOR, C_d = N/A
   l. OVERSTRENGTH FACTOR Ω_o = N/A
   m. ANALYSIS PROCEDURE N/A
   n. LONG-PERIOD TRANSITION PERIOD T_L = 6.00 sec

6. FLOOD DESIGN DATA:
   a. FLOOD DESIGN CLASS (per ASCE 24)
   b. ELEVATION LOWEST FLOOR __ft RELATIVE TO DATUM - N/A
   c. ELEVATION OF DRY FLOODPROOFING __ ft - N/A
   d. BOTTOM OF THE LOWEST ELEVATION OF THE LOWEST HORIZONTAL STRUCTURAL MEMBER OF THE LOWEST FLOOR ___ ft. - N/A

C. **FOUNDATIONS/GEOTECHNICAL REPORT:**
1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE INFORMATION SHOWN ON THE EXISTING BUILDING DRAWINGS. NO NEW GEOTECHNICAL REPORT HAS BEEN PROVIDED BY THE OWNER FOR THIS PROJECT.

D. **MATERIALS:**
1. THE FOLLOWING ASTM STANDARDS AND DESIGN STRESSES SHALL BE USED FOR THE APPROPRIATE MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT.
2. CEMENT: ASTM C150; TYPE I / II
3. CONCRETE:
ALL ELEVATED SLABS SHALL BE LIGHT-WEIGHT CONCRETE.
ALL OTHER CONCRETE SHALL BE NORMAL WEIGHT CONCRETE.

APPLICATION	F'C @28 DAYS (PSI)
INTERIOR SLABS ON GRADE	4000
EXTERIOR BLDG SLABS ON GRADE	4500
LIGHT-WEIGHT FILL ON METAL DECK	4000
FOUNDATION WALLS, FOOTINGS	4000

4. REINFORCEMENT:
   a. DEFORMED REINFORCING BARS - GRADE 60
5. STEEL:
   a. STRUCTURAL STEEL WIDE FLANGE & TEE SECTIONS — ASTM A992
   b. STRUCTURAL ANGLES, CHANNELS & PLATES — ASTM A36
   c. ROUND HOLLOW STRUCTURAL SHAPES — ASTM A500, GRADE B, Fy=42ksi
   d. RECTANGULAR HOLLOW STRUCTURAL SHAPES — ASTM A500, GRADE B, Fy=46ksi
   e. HIGH STRENGTH BOLTS — ASTM A325-N OR TC-TYPE
   f. WELDING ELECTRODES — AWS A5.1 OR A5.5, E70XX

E. **CONSTRUCTION:**
1. GENERAL:
   a. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DETAILS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
   b. TYPICAL DETAILS APPLY REPETITIVELY ON THE PROJECT. CONTRACTOR SHALL COORDINATE THE GENERAL REQUIREMENTS OF TYPICAL DETAILS WITH PROJECT CONDITIONS, PLANS, SPECIFICATIONS, AND SECTIONS.
   c. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
   d. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS, BRACING, SHEETING AND SHORING, ETC.
   e. DIMENSIONS AND DETAILS OF EXISTING CONSTRUCTION SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE AND ARE BASED ON LIMITED INFORMATION. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL MEASUREMENT AND OBSERVATION AT THE SITE AND SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO SHOP DRAWING SUBMITTALS. UNLESS INDICATED OTHERWISE, NEW SLABS ARE TO BE AT THE SAME ELEVATIONS AS ADJACENT EXISTING SLABS. FOUNDATION ELEVATIONS OR COLUMN LENGTHS SHALL BE ADJUSTED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER TO ACHIEVE MATCHING SLAB ELEVATIONS.
   f. IMPLEMENTING JOB SITE SAFETY AND CONSTRUCTION PROCEDURES, TEMPORARY SHORING, AND BRACING OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
   g. ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT THE CONTRACTOR'S EXPENSE.
   h. CONTRACTOR SHALL COORDINATE WITH ALL ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, LAUNDRY AND FOOD SERVICE DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES.
   i. THE SLAB-ON-GRADE AND THE FRAMED STRUCTURAL FLOORS OF THIS BUILDING HAVE NOT BEEN DESIGNED OR ANALYZED FOR THEIR ABILITY TO SUPPORT THE LOAD/WEIGHT OF MECHANICAL OR ELECTRICAL MAN-LIFTS, MATERIAL LIFTS OR STORED MATERIALS DURING CONSTRUCTION. ALL CONTRACTORS AND/OR SUB-CONTRACTORS SHALL HIRE THEIR OWN INDEPENDENT ENGINEER, LICENSED IN THE JURISDICTION OF THIS PROJECT, TO DETERMINE THE ADEQUACY OF THE FLOOR OR SLAB TO SUPPORT THE WEIGHT OF THE LIFTS, NUMBER OF LIFTS THAT CAN BE ON THE FLOOR, ADJACENCY TO OTHER LIFTS AND WEIGHT OF STORED MATERIALS, ETC. THE S/L/A/M COLLABORATIVE, INC. TAKES NO RESPONSIBILITY FOR ANY DAMAGE TO THE FLOORS CAUSED BY CONTRACTOR SUPPLIED LIFTS OR STORED MATERIALS. AS-DESIGNED SLAB-ON-GRADE AND FRAMED FLOOR LIVE LOADS ARE LISTED ABOVE.
2. INSPECTION AND TESTING:
   a. THE OWNER SHALL ENGAGE A TESTING AGENCY AND A SPECIAL INSPECTOR TO PROVIDE SERVICES AND SUBMIT REPORTS AS INDICATED IN THE SPECIFICATIONS AND STATEMENT OF SPECIAL INSPECTIONS.
   b. THE OWNER SHALL ENGAGE A TESTING AGENCY TO PROVIDE SERVICES AND SUBMIT REPORTS AS INDICATED IN THE SPECIFICATIONS.

F. **FOUNDATIONS & STRUCTURAL EARTHWORK:**
1. GENERAL:
   a. SEE THE SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS FOR EXCAVATION AND PREPARATION OF THE FOUNDATION AND SLAB-ON-GRADE SUBGRADE, INCLUDING COMPACTION PROCEDURES. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK.
   b. EXISTING UTILITIES KNOWN TO BE IN THE CONSTRUCTION AREA HAVE BEEN INDICATED. THE SIZE, LOCATION AND DEPTH OF THE UTILITIES ARE NOT KNOWN EXACTLY AND MAY VARY SIGNIFICANTLY FROM THAT INDICATED. OTHER UNKNOWN UTILITIES NOT INDICATED MAY ALSO BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES, WHETHER INDICATED OR NOT, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS, AND SHALL VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK.
   c. CONCRETE FOR FOUNDATIONS SHALL BE PLACED ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN.
   d. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.

G. ALL SHORING, SHEETING, AND DEWATERING SHALL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR. SHEETING AND SHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR CONTRACTOR'S/ ENGINEERING SEAL AND SIGNATURE.
CONCRETE:
1. CAST-IN-PLACE:
REINFORCING STEEL CLEAR COVER SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
   • NON-POST-TENSIONED CONCRETE:
   CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 BARS AND LARGER: 2"
   #5 BARS AND SMALLER: 1½"
   CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
   SLABS, WALL, JOISTS:
   #11 BARS AND SMALLER: ¾"
   BEAMS, COLUMNS:
   PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS: 1½"

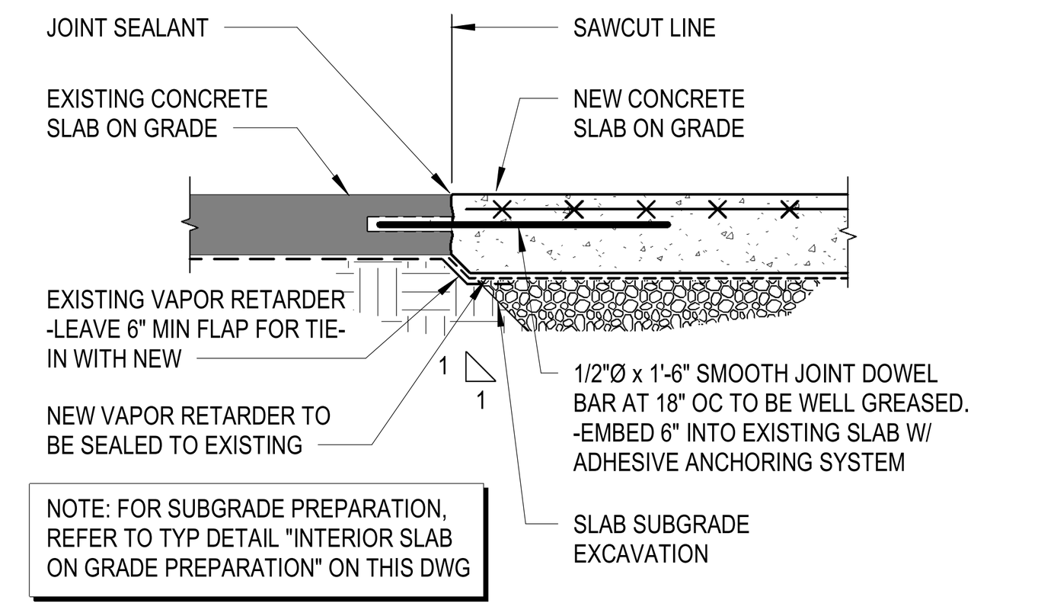
   a. CONSTRUCTION JOINTS AND CONTRACTION JOINTS IN SLABS-ON-GRADE SHALL BE ARRANGED TO LIMIT MAXIMUM AREA BETWEEN JOINTS TO 400 S.F. APPROXIMATELY SQUARE, MAXIMUM 1 ON 1.5 RATIO. ALLOW A MINIMUM OF 48 HOURS TIME BETWEEN PLACEMENT OF ADJACENT SECTIONS. CONTRACTOR SHALL SUBMIT A CONTROL JOINT LAYOUT FOR ARCHITECT APPROVAL.
   b. ALL INSERTS AND SLEEVES SHALL BE CAST-IN-PLACE WHENEVER FEASIBLE. NO SLEEVE SHALL BE PLACED THROUGH ANY CONCRETE ELEMENT UNLESS AUTHORIZED BY THE STRUCTURAL DRAWINGS, APPROVED SLEEVING SUBMITTAL OR SPECIFICALLY AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
   c. CORE DRILLING SHALL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
   d. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. INSTALL ADHESIVE ANCHORS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
   e. ACTUAL SLAB THICKNESS MAY VARY DUE TO BEAM AND DECK DEFLECTIONS. CONTRACTOR SHALL PROVIDE ADDITIONAL CONCRETE AS NECESSARY TO MAINTAIN A LEVEL SLAB SURFACE AT THE ELEVATION INDICATED. ADDITIONAL CONCRETE FROM BEAM DEFLECTION HAS BEEN ACCOUNTED FOR IN THE DESIGN.
   f. DO NOT PLACE ANY TYPE OF CONDUITS/PIPES IN ANY STRUCTURAL SLAB.
   g. NO WELDING OF REINFORCING SHALL BE PERMITTED UNLESS SPECIFICALLY CALLED FOR OR APPROVED BY THE STRUCTURAL ENGINEER.
   h. SUBMIT MATERIAL TEST REPORTS FROM A QUALIFIED TESTING AGENCY DEMONSTRATING THAT TEST RESULTS FOR TRIAL MIX BATCHES FOR EACH CONCRETE MIX DESIGN COMPLY WITH ACI 301 AND THE ADDITIONAL REQUIREMENTS OF THE PROJECT CONTRACT DOCUMENTS.
   i. CONCRETE SLABS THAT ARE PART OF COMPOSITE FLOOR FRAMING SYSTEMS SHALL ACHIEVE 28-DAY DESIGN STRENGTH PRIOR TO THE APPLICATION OF ANY SUPERIMPOSED LOADS SUCH AS CURTAIN WALLS, MASONRY VENEERS AND STAIRS.
   j. ALL POST INSTALLED CONCRETE ANCHORS SHALL BE EVALUATED BY THE ICC EVALUATION SERVICE AND SHALL BE TESTED IN ACCORDANCE WITH AC 193 (ACCEPTANCE CRITERIA FOR MECHANICAL ANCHORS) OR AC 308 (ACCEPTANCE CRITERIA FOR ADHESIVE ANCHORS). APPROVED ANCHORS SHALL BE SUITABLE FOR USE IN SEISMIC ZONES A-F IN ADDITION TO CRACKED CONCRETE. CONTRACTORS SHALL SUBMIT MANUFACTURER PRODUCT INFORMATION CLEARLY STATING WHICH ANCHOR TYPE, DIAMETER AND EMBEDMENT IS TO BE USED AS WELL AS INSTALLATION PROCEDURE TO THE STRUCTURAL ENGINEER FOR THEIR REVIEW. ANCHOR INSTALLATION SHALL BE INSPECTED IN ACCORDANCE WITH THE PROGRAM OF SPECIAL INSPECTIONS.

H. **STRUCTURAL STEEL:**
1. GENERAL:
   a. PERMANENT FRAMING AND FINAL CONNECTION DETAILS ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION SEQUENCES, MEANS, AND METHODS; AND FOR THE DESIGN OF TEMPORARY LATERAL AND VERTICAL BRACING. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL THE COMPLETE VERTICAL AND LATERAL FORCE RESISTING SYSTEMS HAVE BEEN INSTALLED.
   b. PROVIDE ACCESS FOR INSPECTION OF ALL SHOP AND FIELD CONNECTIONS FOR PROPER MATERIALS AND WORKMANSHIP.
   c. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES SHALL BE IN ACCORDANCE WITH THE AISC AND AWS SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING IS TO BE REPLACED OR REINFORCED AS ACCEPTABLE TO THE STRUCTURAL ENGINEER.
   d. WELDERS SHALL HAVE CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS QUALIFICATION TESTS. THE ENGINEER MAY REQUEST SUCH EVIDENCE AT ANY TIME DURING THE PROJECT.
   e. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND SHALL RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.
   f. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE PROTECTION, GALVANIZING, PAINTING AND AESS REQUIREMENTS.CX
   g. STEEL FRAMED OPENINGS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER ITEMS HAVE BEEN SHOWN BASED ON PROGRESS DESIGN DRAWINGS THAT WERE AVAILABLE FOR COORDINATION PRIOR TO THE ISSUANCE OF THE FINAL BID DOCUMENTS. THESE ITEMS ARE SHOWN TO ASSIST THE CONTRACTOR IN UNDERSTANDING THE GENERAL SCOPE OF WORK, BUT ARE NOT INTENDED TO REPRESENT EXACT LOCATIONS, QUANTITIES, OR COMPLETE EXTENT OF REQUIRED COORDINATION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES. THE CONTRACTOR SHALL PROVIDE STEEL FRAMES FOR ALL OPENINGS AS REQUIRED BY THE TYPICAL FRAMED OPENING DETAIL ON DRAWING S401, WHETHER THEY ARE SHOWN OR NOT SHOWN IN THE DRAWINGS.
2. CONNECTIONS
   a. ALL CONNECTIONS, SPLICES, SHOP STANDARDS, AND TEMPORARY SUPPORT SHALL BE DESIGNED BY THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. CALCULATIONS AND SHOP STANDARDS SHALL BE SUBMITTED BEARING THE ENGINEER'S SEAL AND SIGNATURE PRIOR TO, OR ALONG WITH, PIECE DETAILS.
      • SIMPLE SHEAR CONNECTIONS MAY BE SELECTED FROM AISC'S TABULATED SIMPLE SHEAR CONNECTIONS, SUBJECT TO RESTRICTIONS INDICATED.
      • SPECIALTY CONNECTIONS SHALL BE DESIGNED BASED ON THE LOAD DATA AND SCHEMATIC DETAILS INDICATED.
   b. REACTIONS INDICATED ON FRAMING PLANS ARE BASED ON UNFACTORED LOADS, UNLESS OTHERWISE NOTED. ALL SIMPLE SHEAR CONNECTIONS SHALL BE DESIGNED FOR THE REACTIONS INDICATED BUT NOT LESS THAN 6 kips.
   c. PROVIDE NO LESS THAN 3/16" WELDS EXCEPT ALONG EDGES OF MATERIALS THAT ARE ¼" OR LESS IN THICKNESS, FOR EDGES OF MATERIALS THAT ARE 1/4" OR LESS IN THICKNESS, USE THE MAXIMUM SIZE WELD PERMITTED BY THE GOVERNING AISC SPECIFICATION.
   d. ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS OR WELDS. ALL HIGH STRENGTH BOLTS AND NUTS SHALL BE CLEARLY MARKED AS REQUIRED BY AISC SPECIFICATIONS. CONNECTIONS MADE WITH UNMARKED BOLTS AND NUTS WILL BE REJECTED.
   e. UNLESS OTHERWISE NOTED, ALL BOLTS SHALL BE TIGHTENED TO THE "SNUG TIGHT" CONDITION DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH. THE SNUG TIGHT CONDITION MUST ENSURE THAT THE PLIES OF THE CONNECTED MATERIAL HAVE BEEN BROUGHT INTO SNUG CONTACT.
   f. BOLTS USED IN STRUCTURAL STEEL FRAMING CONNECTIONS SHALL BE A MINIMUM OF ¾" DIAMETER.
   g. BOLTED CONNECTIONS SHALL USE A MINIMUM OF TWO BOLTS PER CONNECTED PART, UNLESS OTHERWISE INDICATED.
   h. PROVIDE THE FOLLOWING MINIMUM NUMBER OF BOLT ROWS CONNECTION, UNLESS OSHA SAFETY GUIDELINES OR CONNECTION GEOMETRY REQUIRES FEWER:

BEAM SIZE	MIN. NO. OF BOLTS
W8, W10, W12	2
W14, W16	3
W18, W21	4

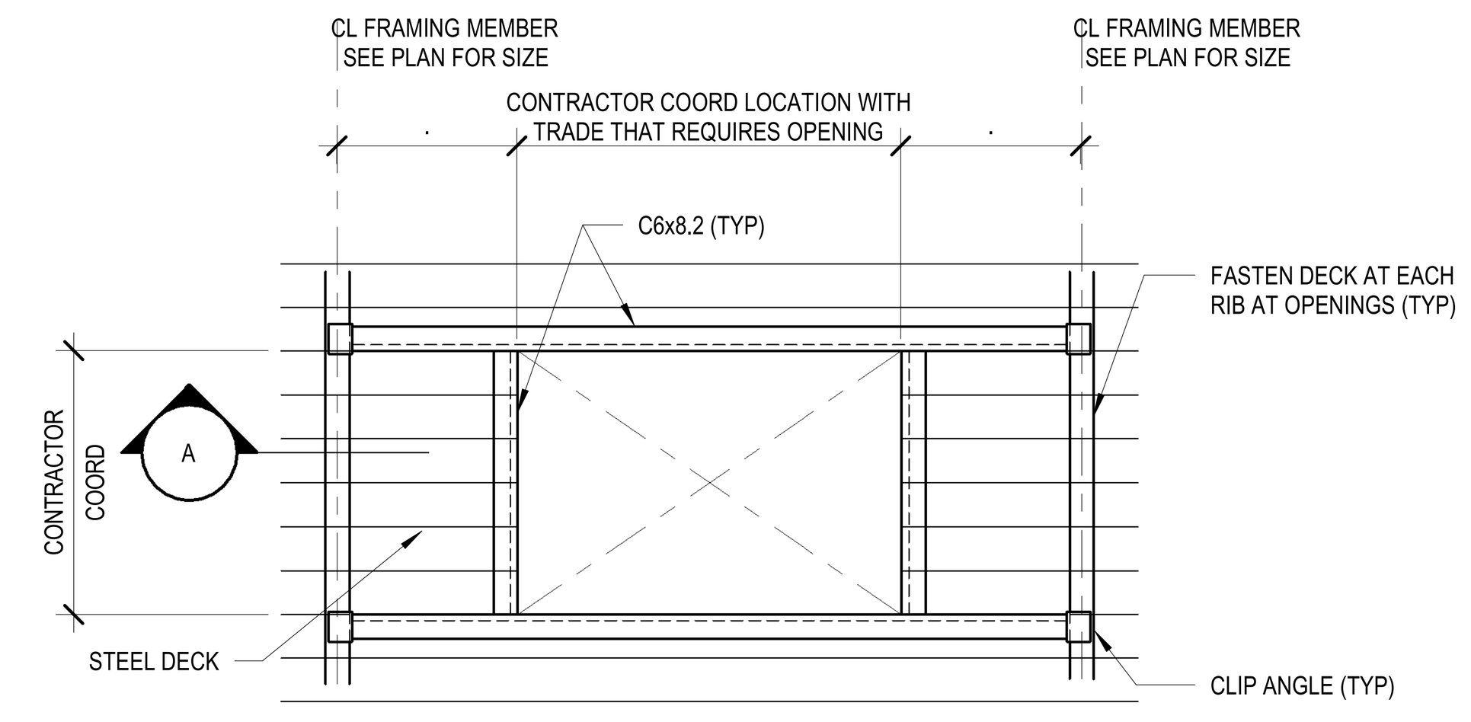
I. **STEEL DECK:**
1. FABRICATE PANELS WITH AN EXTENDED FEMALE LEG AT INTERLOCKING SEAMS THAT ALLOWS FOR SIDELAP SCREWS TO BE INSTALLED VERTICALLY.
2. DO NOT PRIME PAINT DECK AREAS THAT ARE TO RECEIVE SPRAY APPLIED FIREPROOFING. COORDINATE LOCATIONS OF DECK THAT IS TO BE PAINTED WITH THE ARCHITECT.
3. THE STEEL DECK HAS BEEN DESIGNED FOR UNIFORMLY DISTRIBUTED LOADS AND MUST NOT BE USED AS THE EQUIVALENT OF POINT LOADS OR LINEAR LOADS. CONCENTRATED LOADS APPLIED TO STEEL DECK SHALL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
4. SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED FROM METAL ROOF DECK.

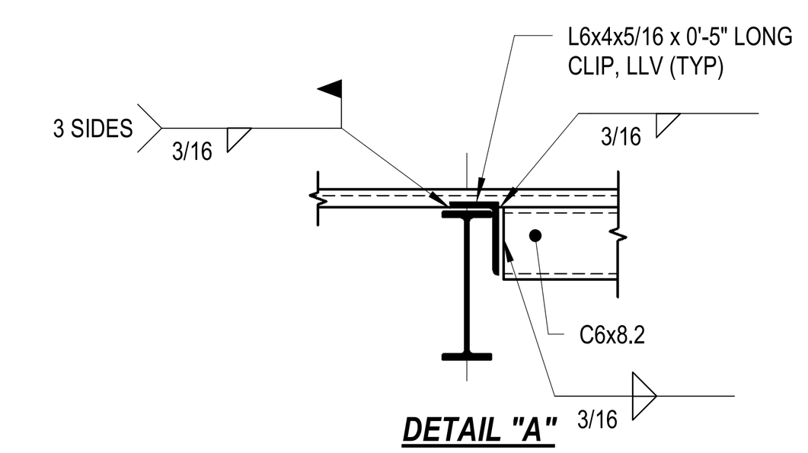
J. **STRUCTURAL LIGHT GAUGE/LIGHTWEIGHT STEEL FRAMING:**
1. REFER TO SPECIFICATIONS.



NOTE: FOR SUBGRADE PREPARATION, REFER TO TYP DETAIL "INTERIOR SLAB ON GRADE PREPARATION" ON THIS DWG

1 TYPICAL NEW SLAB TO EXISTING SLAB DETAIL
S001 NOT TO SCALE



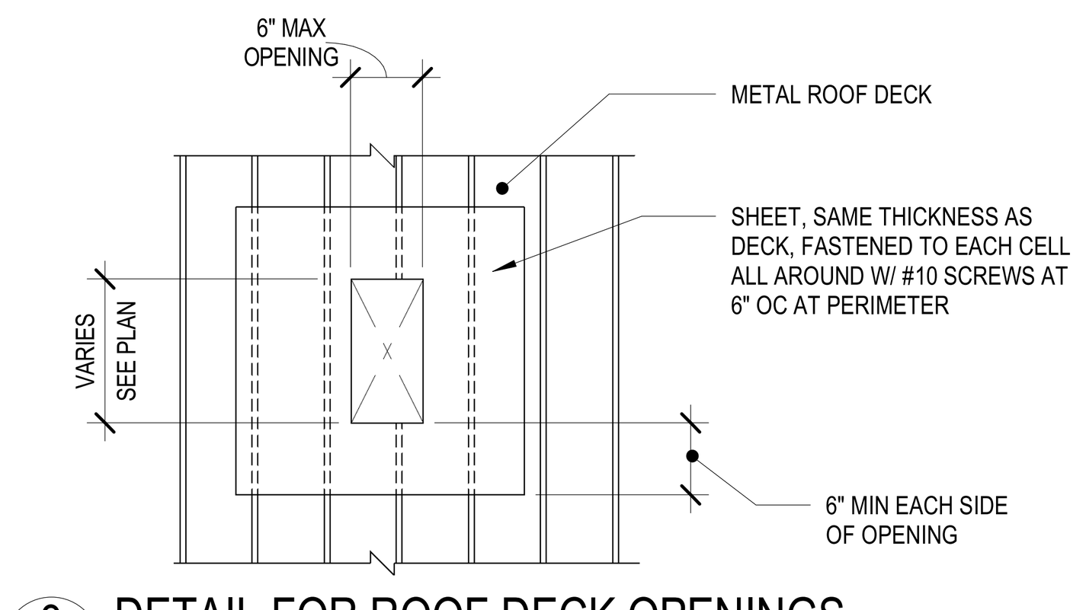


DETAIL "A"

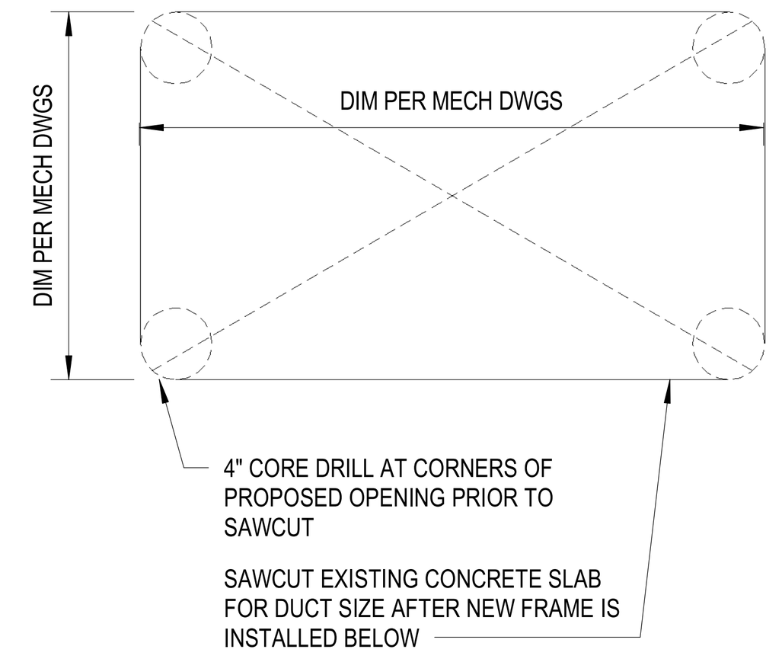
1. PROVIDE BLOCKING INSIDE DECK RIBS BETWEEN DECK AND SUPPORTING MEMBER WHERE CURB OCCURS ABOVE.
2. ADDITIONALLY, PROVIDE FRAMES AT ROOF DRAINS, MECH UNITS AND OPENINGS REQD BY OTHER TRADES NOT INDICATED ON THE STRUCTURAL PLANS.

2 TYPICAL SUPPORT AT ROOF PENETRATION
S001 NOT TO SCALE

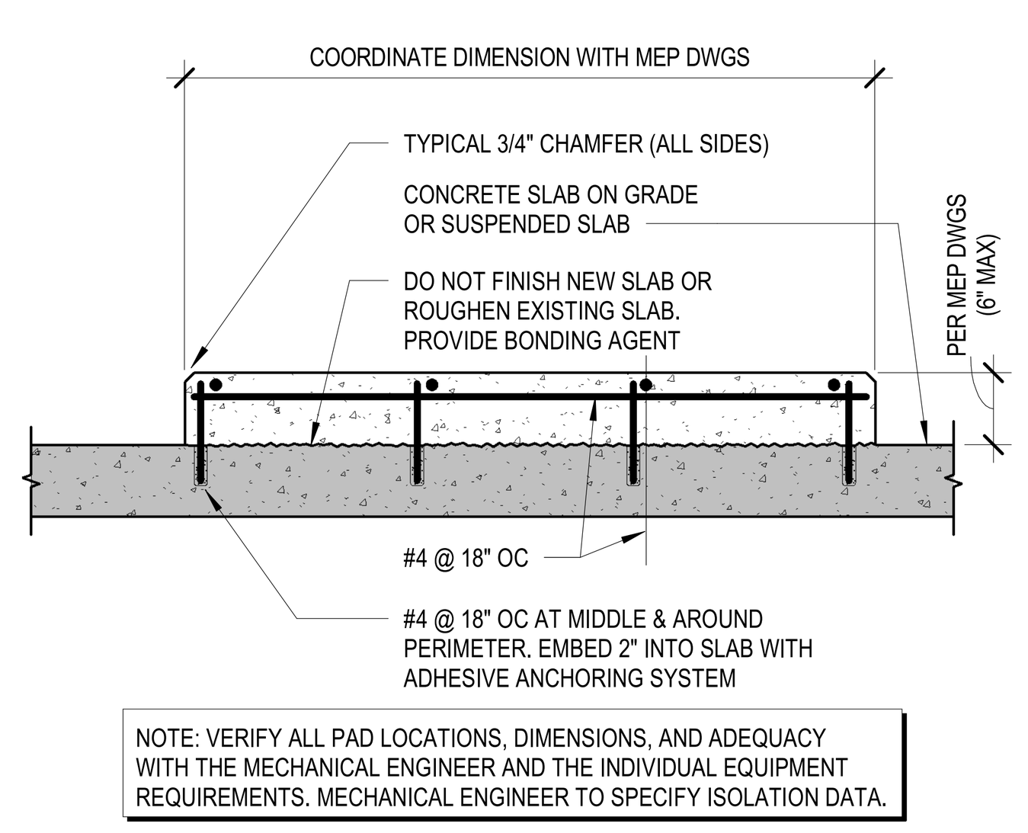
NOTES:
1. ALL ROOF PENETRATIONS SHALL BE PROVIDED TO ENGINEER FOR THEIR REVIEW.
2. OPENINGS EXCEEDING 6" OR IF SECOND OPENING IS LOCATED WITHIN 3'-0", SEE DETAIL *"TYPICAL SUPPORT AT ROOF PENETRATION"*.



3 DETAIL FOR ROOF DECK OPENINGS
S001 NOT TO SCALE



4 TYP NEW OPENING IN EXISTING CONCRETE SLAB
S001 NOT TO SCALE



NOTE: VERIFY ALL PAD LOCATIONS, DIMENSIONS, AND ADEQUACY WITH THE MECHANICAL ENGINEER AND THE INDIVIDUAL EQUIPMENT REQUIREMENTS. MECHANICAL ENGINEER TO SPECIFY ISOLATION DATA.

5 TYPICAL HOUSEKEEPING PAD
S001 3/4" = 1'-0"

STRUCTURAL DRAWING LIST

DECK AND SUSPENDED SLAB SCHEDULE

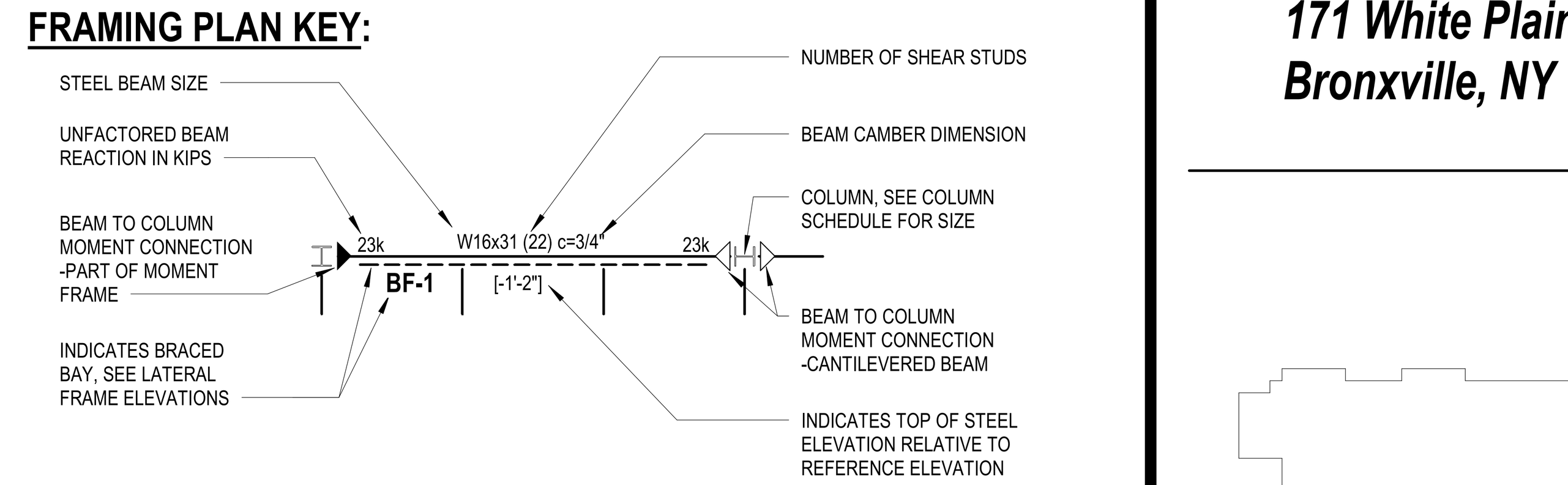
	Deck						Slab		
				Fastening					
Mark	Type	Gage	Depth	End Support	Edge Support	Side Lap	Total Depth	Reinforcement	Remarks
F1	COMPOSITE	18	3"	12"	18"	18"	6.25"	WWR 6x6 - W2.1xW2.1	LIGHT WEIGHT CONCRETE
F2	FORM	24	9/16"	12"	18"	18"	2.5"	WWR 6x6 - W2.1xW2.1	LIGHT WEIGHT CONCRETE

1. WELD DECK TO ALL SUPPORTS INCLUDING EDGE SUPPORTS PARALLEL TO THE DECK WITH MINIMUM 5/8" PUDDLE WELDS SPACED PER SCHEDULE BUT NOT LESS THAN 18" OC OR HEADED STUDS.
2. SIDE LAPS SHALL BE FASTENED WITH #10 SCREWS UNLESS OTHERWISE NOTED IN THE SCHEDULE.

STRUCTURAL ABBREVIATIONS

#	NUMBER OR POUND
&	AND
@	AT
AB	ANCHOR BOLT
ADDL	ADDITIONAL
ADJ	ADJACENT
A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECTURAL/ARCHITECT
AVG	AVERAGE
BFE	BOTTOM OF FOOTING ELEVATION
BGB	BOTTOM OF GRADE BEAM
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
B PL	BASE PLATE
BRG PL	BEARING PLATE
BS	BOTH SIDES
BTB	BOTTOM OF TIE BEAM
BYD	BEYOND
C	CHANNEL
CANT	CANTILEVER
CB	CONCRETE BEAM/CATCH BASIN
CFMF	COLD-FORMED METAL FRAMING
CJ	CONTRACTION/CONSTRUCTION JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
DEFL	DEFLECTION
DEMO	DEMOLITION
Db	BAR DIAMETER
DIA, Ø	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DO	DITTO
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
ELEC	ELECTRICAL
EOS	EDGE OF SLAB
EOD	EDGE OF DECK
EQ	EQUAL
EW	EACH WAY
EX	EXISTING
EXT	EXTERIOR
FTG	FOOTING
FDN	FOUNDATION
FF	FAR FACE
FFE	FINISHED FLOOR ELEVATION
FIN FL	FINISHED FLOOR
FLG	FLANGE
FO	FRAMED OPENING
FS	FOOTING STEP
FT	FOOT/FEET
GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GRD	GRADE
HORIZ	HORIZONTAL
HKP	HOUSEKEEPING PAD
HP	HIGH POINT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH (ES)
INT	INTERIOR
INV	INVERT
JST	JOIST
JT	JOINT
KB	KNEE BRACE
k	KIP (S)
L	ANGLE
LF	LINEAR FOOT
LG	LIGHT GAUGE
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LW	LONG WAY
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPP	OPPOSITE
PAF	POWDER ACTUATED FASTENER
PEN	PENETRATION
PL	PLATE
PSL	PARALLEL STRAND LUMBER
QTY	QUANTITY
R	REACTION
R, RAD	RADIUS
RD	ROOF DRAIN
RDP	REGISTERED DESIGN PROFESSIONAL
REF	REFERENCE
REINF	REINFORCE (MENT)
REQ'D	REQUIRED
REV	REVISION
RL	ROOF DRAIN LEADER
ROF	ROOF OPENING FRAME
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SJ	SEISMIC JOINT
SL	SLOPE
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
STIFF	STIFFENERS
STL	STEEL
STRUCT	STRUCTURAL
SW	SHORT WAY
SYM	SYMMETRICAL, SYMMETRY
T&B	TOP AND BOTTOM
TGB	TOP OF GRADE BEAM
TGE	TOP OF GRADE BEAM ELEVATION
TPC	TOP OF PILE CAP
TPE	TOP OF PIER ELEVATION
TSE	TOP OF SHELF ELEVATION
TTB	TOP OF TIE BEAM
TWE	TOP OF WALL ELEVATION
TYP	TYPICAL
UOD	UNDERSIDE OF DECK
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WIDE FLANGE
W/O	WITHOUT
W/	WITH
WP	WORKING POINT
WWR	WELDED WIRE REINFORCEMENT

FRAMING PLAN KEY:



PLAN KEYS:

INDICATES CONTRACTOR SHALL COORDINATE DIMENSION WITH APPROVED MANUFACTURER SUBMITTAL.

INDICATES FRAMED OPENING PER DETAIL ON DRAWING S4XX. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING ALL QUANTITIES, SIZES, AND LOCATIONS.

INDICATES AREA OF DEPRESSED CONCRETE SLAB ON GRADE . DEPTH & EXACT LOCATION OF DEPRESSION SHALL BE COORDINATED WITH ARCH DWGS.

INDICATES SLAB OPENING OR PENETRATION

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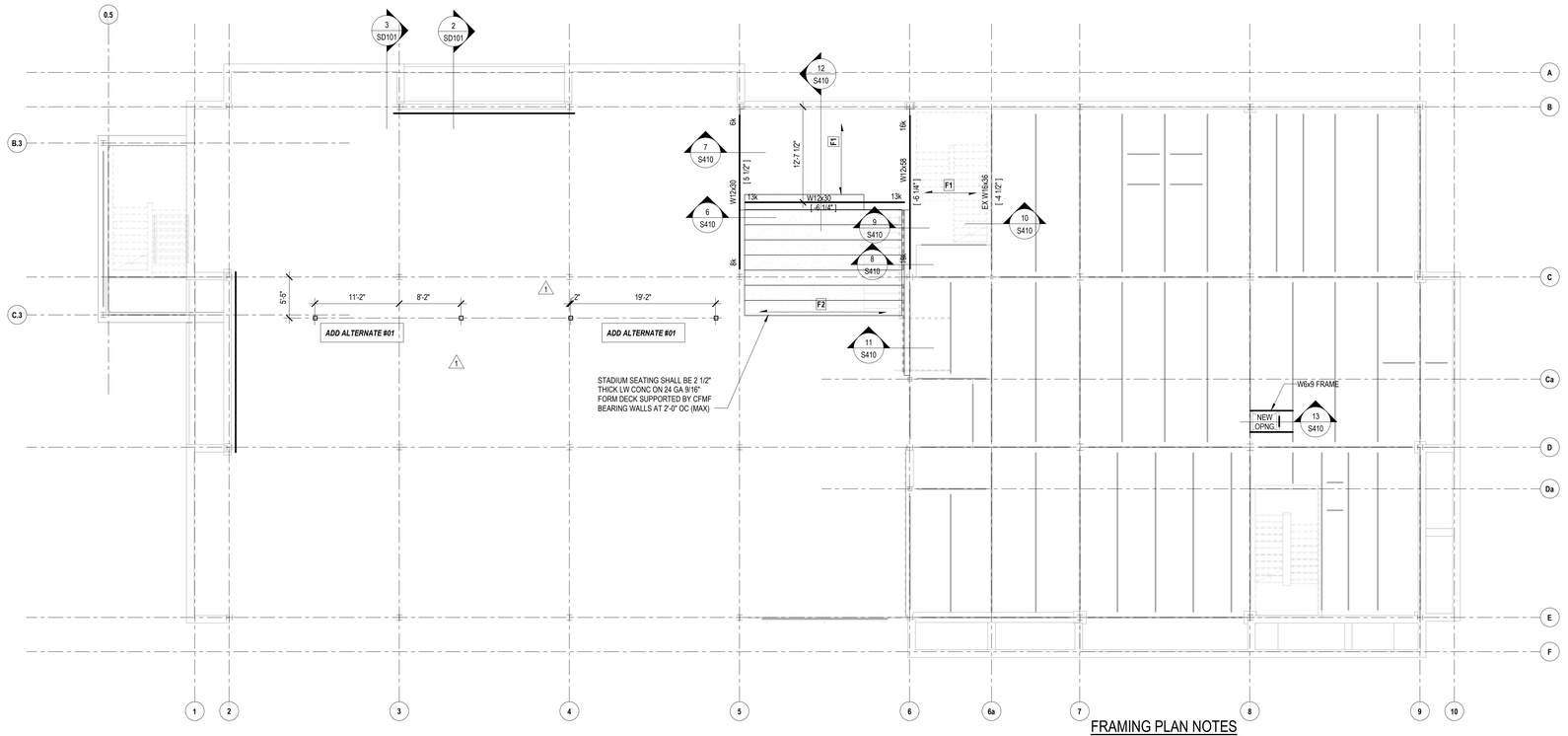
KEYPLAN

Number	Date	Issued For
	04/07/2022	BID PACKAGE NO. 2
1	04/01/2022	PR-01
	02/11/2022	ADDENDUM NO. 1

GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS

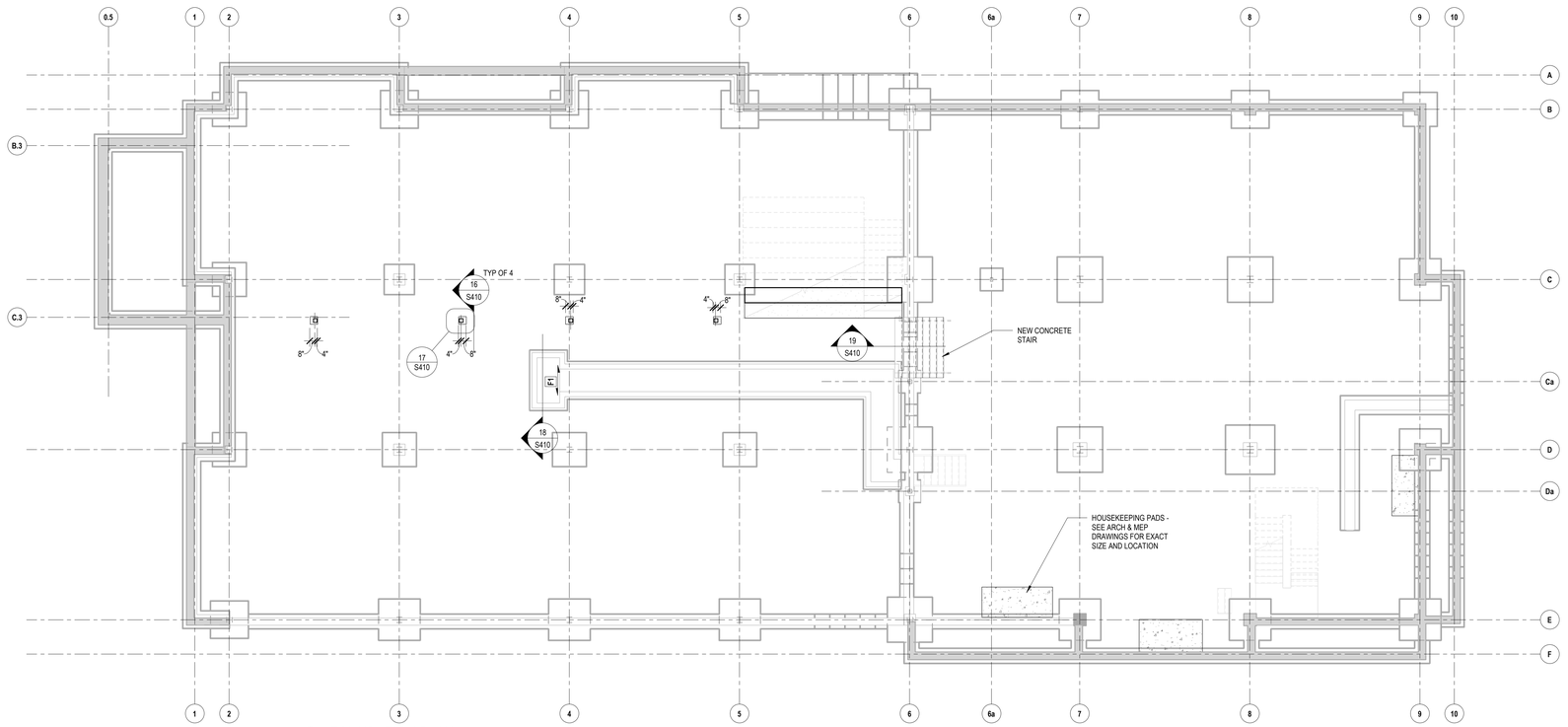
Date 02/11/2022
Scale As indicated
Proj. Number 20287.00
Drawing Number S001



2 S101 FIRST FLOOR FRAMING PLAN
1/8" = 1'-0"

FRAMING PLAN NOTES

1. TOP OF STEEL REFERENCE ELEVATION IS EXISTING FINISHED FIRST FLOOR - MEZZANINE UNLESS NOTED [±Y'-Y"] INDICATING DISTANCE ABOVE OR BELOW REFERENCE ELEVATION.
2. BEAM REACTIONS INDICATED ON FRAMING PLANS ARE UNFACTORED REACTIONS.
3. ALL BEAMS SUPPORTING CONCRETE SLABS WHICH DO NOT INDICATE SHEAR CONNECTORS SHALL HAVE WELDED SHEAR CONNECTORS AT 3'-0" OC MAXIMUM.



1 S101 FOUNDATION PLAN
1/8" = 1'-0"

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FOUNDATION & FIRST FLOOR FRAMING PLAN

Date: 02/11/2022
Scale: 1/8" = 1'-0"
Proj. Number: 20287.00
Drawing Number: S101

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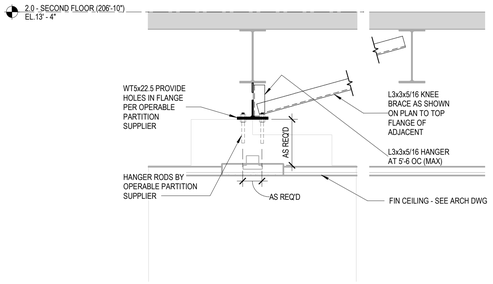
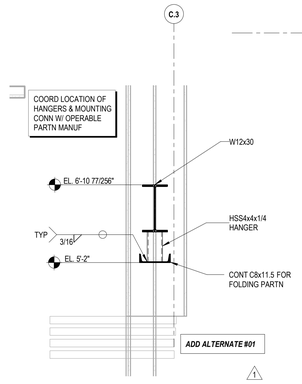


1 SECTION S410 3/4" = 1'-0"



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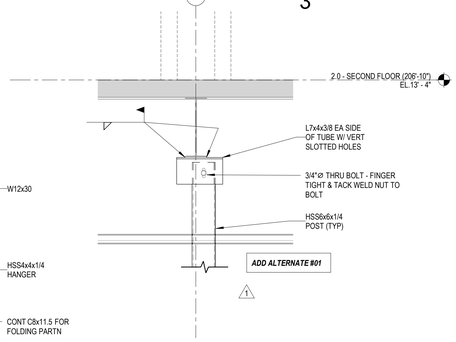

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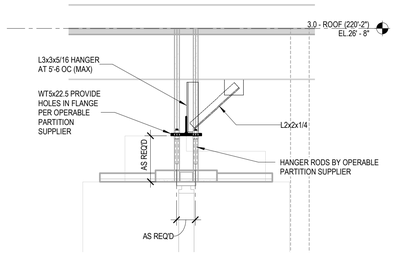

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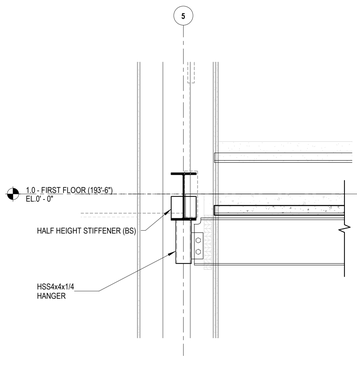

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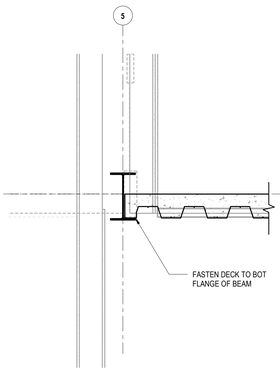

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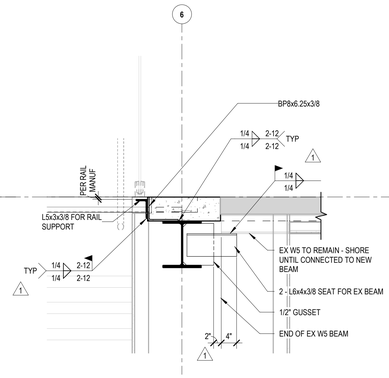

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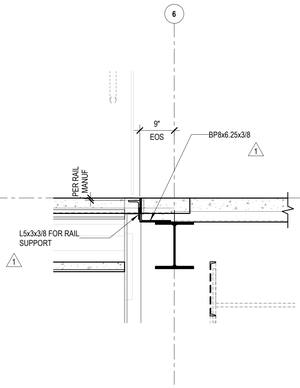

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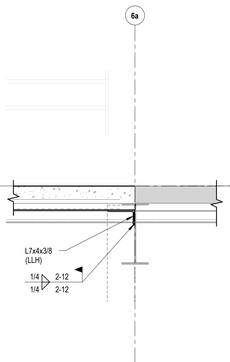

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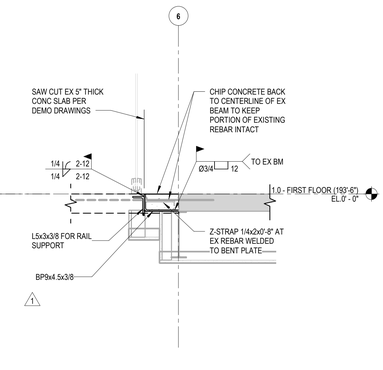

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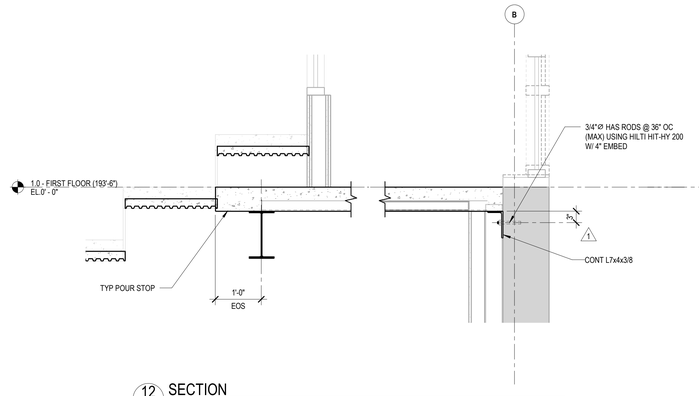

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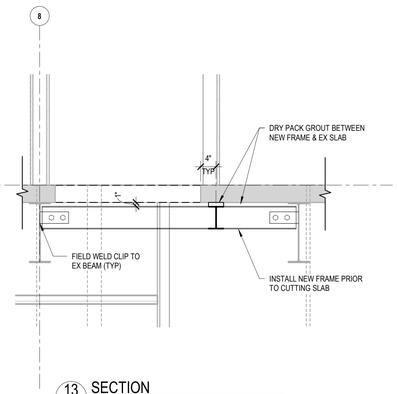
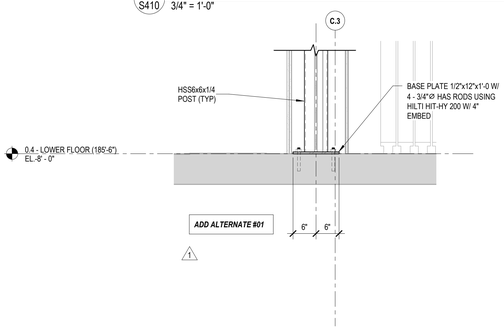


13 SECTION S410 3/4" = 1'-0"



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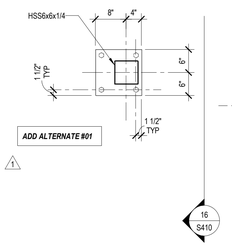

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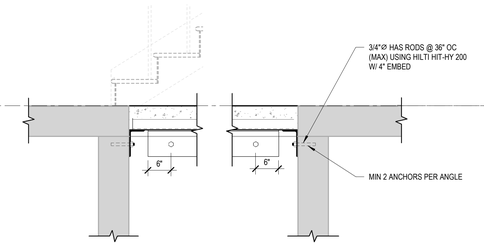
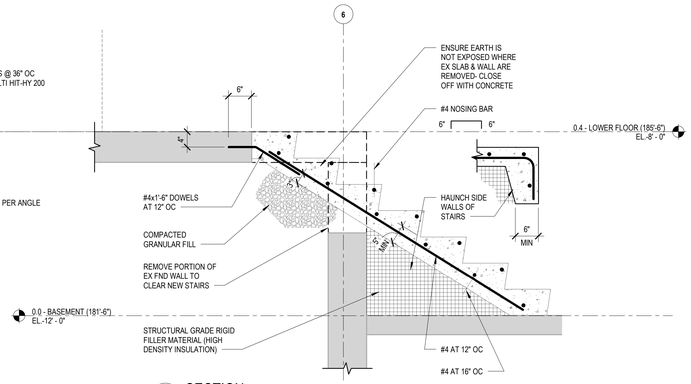


18 SECTION S410 3/4" = 1'-0"



19 SECTION S410 3/4" = 1'-0"

3" 1 1/2" 1" C 3/4" 1/2" 3/8" 1/4" 3/16" 1/8" 3/32" 1/16" D E

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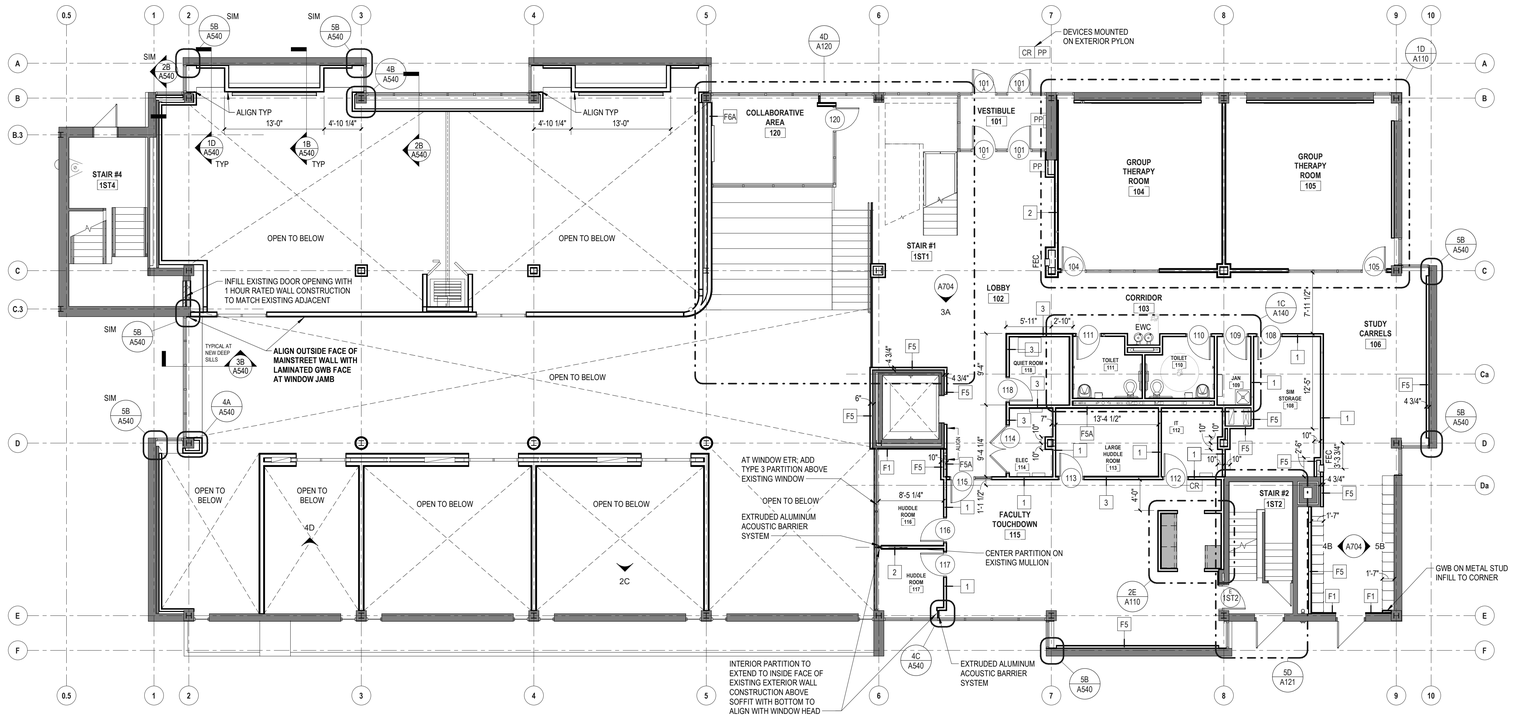
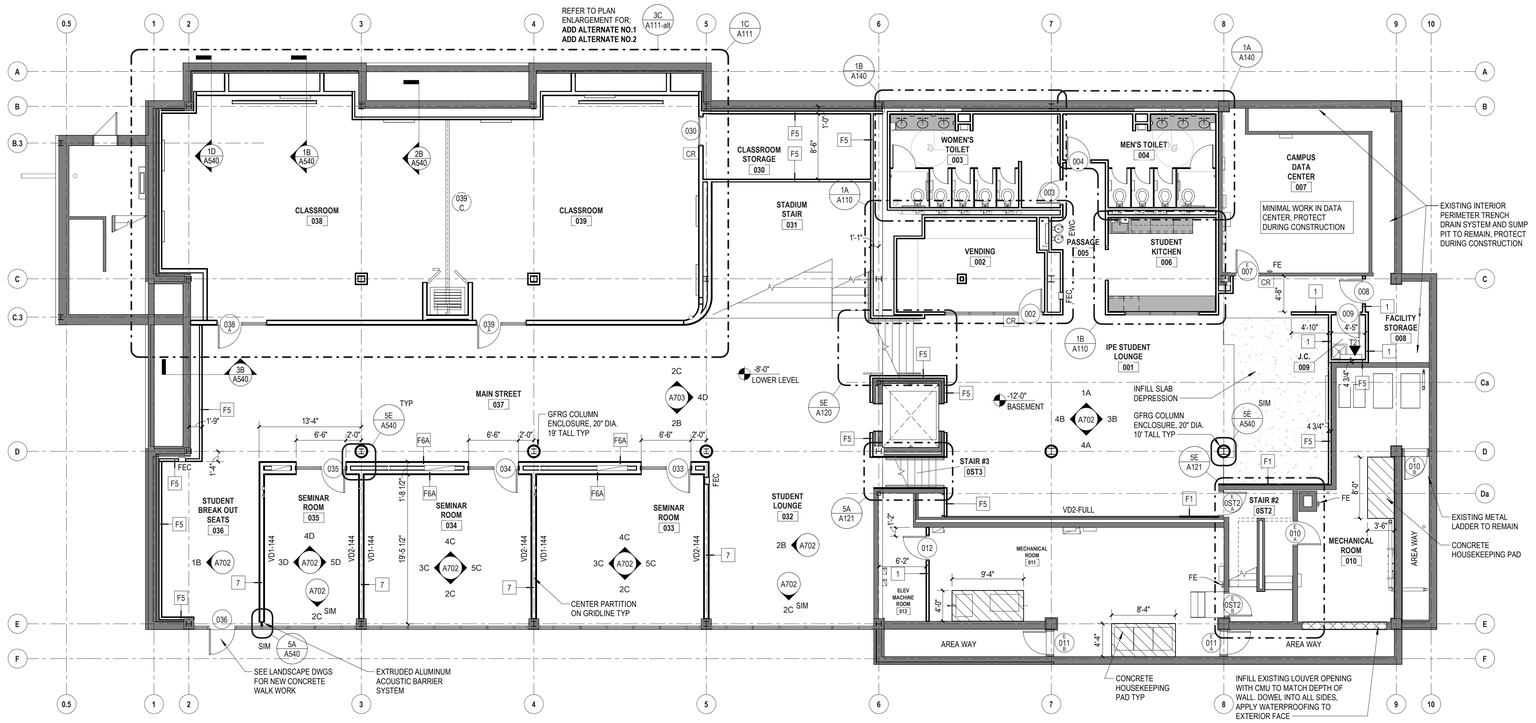
FRAMING DETAILS

Date: 02/11/2022
Scale: 3/4" = 1'-0"
Proj. Number: 20287.00
Drawing Number: **S410**



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



1E BASEMENT/ LOWER LEVEL FLOOR PLAN
1/8" = 1'-0"

FLOOR PLAN GRAPHIC LEGEND

- NEW WALL CONSTRUCTION
- NEW MASONRY CONSTRUCTION
- EXISTING WALL CONSTRUCTION TO REMAIN
- FE — FIRE EXTINGUISHER, WALL MOUNTED WITH HOOK
- FEC — FIRE EXTINGUISHER CABINET
- ACCESSIBLE CLEAR FLOOR SPACE
- CR — CARD READER
- PP — AUTOMATIC DOOR OPERATOR PUSH PLATE
- MHO — MAGNETIC HOLD OPEN
- EWC — ELECTRIC WATER COOLER
- FLOOR DRAIN
- VD# — VISUAL DISPLAY MATERIAL: REFER TO FINISH PRODUCT LIST SHEET A910 FOR TYPE AND PRODUCT INFO. # = TYPE, ## = LENGTH IN INCHES (FULL = ENTIRE WALL)
- 4" HIGH CONCRETE HOUSEKEEPING PAD. DIMENSIONS GIVEN ARE APPROXIMATE - COORDINATE FINAL DIMENSIONS WITH MEP CONTRACTORS AND ACTUAL EQUIPMENT PROVIDED FOR PROJECT.
- AREA OF EXISTING 3/4" SLAB DEPRESSION TO BE INFILLED LEVEL WITH ADJACENT TOP OF EXISTING FLOOR SLAB. V.I.F. AREA AND DEPTH.

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL INFORMATION SHEET G01 FOR LIST OF TYPICAL ABBREVIATIONS AND TYPICAL ARCHITECTURAL GRAPHIC LEGENDS AND SYMBOLS.

2. REFER TO TYPICAL PARTITION TYPES AND DETAILS SHEETS A600 & A601. ALL PARTITIONS SHALL BE TYPE 1 U.O.N. ALL MASONRY PARTITIONS SHALL BE TYPE M5 U.O.N. FOR ACOUSTIC CONTINUITY AT TOPS OF PARTITIONS CENTERED ON OR DIRECTLY ADJACENT TO STEEL BEAMS REFER TO SPECIFIC DETAILS ON SHEET A600.

3. REFER TO CODE INFORMATION AND FIRE SAFETY PLAN DRAWINGS FOR LOCATIONS OF FIRE-RESISTANCE RATED PARTITIONS AND NON-FIRE-RESISTANCE RATED SMOKE PARTITIONS LS-SERIES DRAWINGS.

4. ALIGN PARTITIONS WITH COLUMN OR MULLION CENTERLINE, UNLESS OTHERWISE NOTED.

5. DIMENSIONS ARE FROM FACE OF WALL TO FACE OF WALL, (I.E. FACE OF GYPSUM BOARD OR MASONRY) OR FROM FACE OF EXISTING CONDITION OR FROM COLUMN CENTERLINE, UNLESS OTHERWISE NOTED. DIMENSIONS NOTED AS "CLEAR" SHALL BE FROM FINISH FACE TO FINISH FACE, (ie. FACE OF CERAMIC TILE TO FACE OF CERAMIC TILE). VERIFY ALL EXISTING DIMENSIONS IN THE FIELD.

6. ALL MASONRY DIMENSIONS, INDICATED "M.O.", ARE NOMINAL DIMENSIONS, UNLESS OTHERWISE NOTED. ACTUAL MASONRY OPENING DIMENSION = NOMINAL MASONRY OPENING DIMENSION + ONE MORTAR JOINT (I.E., 4'-0" M.O. + 4'-0" + 3/8" ACTUAL OPENING DIMENSION).

7. REFER TO PLAN ENLARGEMENTS FOR ADDITIONAL DIMENSIONS AND PARTITION TYPE INFORMATION.

8. REFER TO DOOR AND FRAME DETAILS FOR ADDITIONAL INFORMATION. PROVIDE MINIMUM 6-INCH CLEARANCE FROM FACE OF DOOR JAMB TO FACE OF ADJACENT WALL, UNLESS OTHERWISE NOTED.

9. REFER TO TYPICAL MOUNTING LOCATIONS AND HEIGHTS FOR TOILET ACCESSORIES, EQUIPMENT, WALL SPECIALTY DESIGNATIONS, VISUAL DISPLAY BOARDS, ETC.; TYPICAL TOILET ROOM ELEVATIONS AND TOILET ACCESSORY SCHEDULE SHEET A701.

10. PROVIDE FIRE-TREATED WOOD BLOCKING OR MINIMUM 0.0312-INCH THICK STEEL FLAT STRAP AND BACKING PLATE AT, BUT NOT LIMITED TO, THE FOLLOWING LOCATIONS: TOILET ACCESSORIES, CASEWORK, MILLWORK, DOOR WALL BUMPERS, AND ALL OTHER WALL MOUNTED EQUIPMENT OR DEVICES.

11. ALL EXISTING PARTITIONS INDICATED ON THE FIRE SAFETY PLANS TO BE SMOKE PARTITIONS, SMOKE BARRIERS, OR FIRE-RATED PARTITIONS THAT DO NOT CURRENTLY EXTEND TO UNDERSIDE OF FLOOR SLAB SHALL BE MODIFIED TO EXTEND TO SLAB AND SHALL COMPLY WITH DETAILS SHOWN FOR NEW PARTITIONS. ALL PENETRATIONS OR VOIDS SHALL BE SEALED SMOKE-TIGHT AND/OR BE FIRE-STOPPED AS REQUIRED.

12. REFER TO THE EQUIPMENT PLANS FOR VISUAL DISPLAY BOARD, RESIDENTIAL APPLIANCE, FIXED AUDITORIUM SEATING, PROJECTION SCREEN AND TOILET ACCESSORY LOCATIONS. REFER TO THE EQUIPMENT PLANS FOR EQUIPMENT LOCATIONS AND SCHEDULE.

13. REFER TO THE FINISH PLANS FOR FLOOR PATTERNS.

14. FLOOR PATCH AND FLOOR LEVELING: REPAIR EXISTING TOPPING SLAB AND CONCRETE FLOOR AT DEMOLITION OF WALLS AND AT ALL OTHER LOCATIONS AS REQUIRED. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

15. PATCHING TO MATCH EXISTING:
A) PROVIDE ALL OPENINGS REQUIRED FOR ALL TRADES AND PATCH TO MATCH EXISTING, AT EXISTING CONSTRUCTION ALTERED OR DISTURBED BY THE INSTALLATION, RELOCATION, OR REMOVAL OF HEATING, VENTILATING, AIR CONDITIONING, PLUMBING AND/OR ELECTRICAL EQUIPMENT AND DEVICES.
B) PATCH TO MATCH EXISTING (PTME), ALL AREAS ADJACENT TO, OR DISTURBED BY, NEW CONSTRUCTION OR EXISTING CONSTRUCTION TO BE REMOVED. PATCH TO MATCH INCLUDES FINISH MATERIAL (PAINT OR VWC OR CERAMIC TILE... ETC.) TO MATCH EXISTING.
C) PATCH ALL DEFECTS IN, AND FINISH TO MATCH EXISTING, ALL AREAS WHICH ARE TO RECEIVE NEW MATERIALS, FINISHES AND ITEMS CALLED FOR IN THE CONTRACT DOCUMENTS. PREPARE ALL EXISTING SURFACES TO RECEIVE NEW FINISHES AS REQUIRED.

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KEYPLAN

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BASEMENT/ LOWER LEVEL AND FIRST FLOOR PLANS

Date: 04/07/2022
Scale: 1/8" = 1'-0"
Proj. Number: 20287.10
Drawing Number: A101

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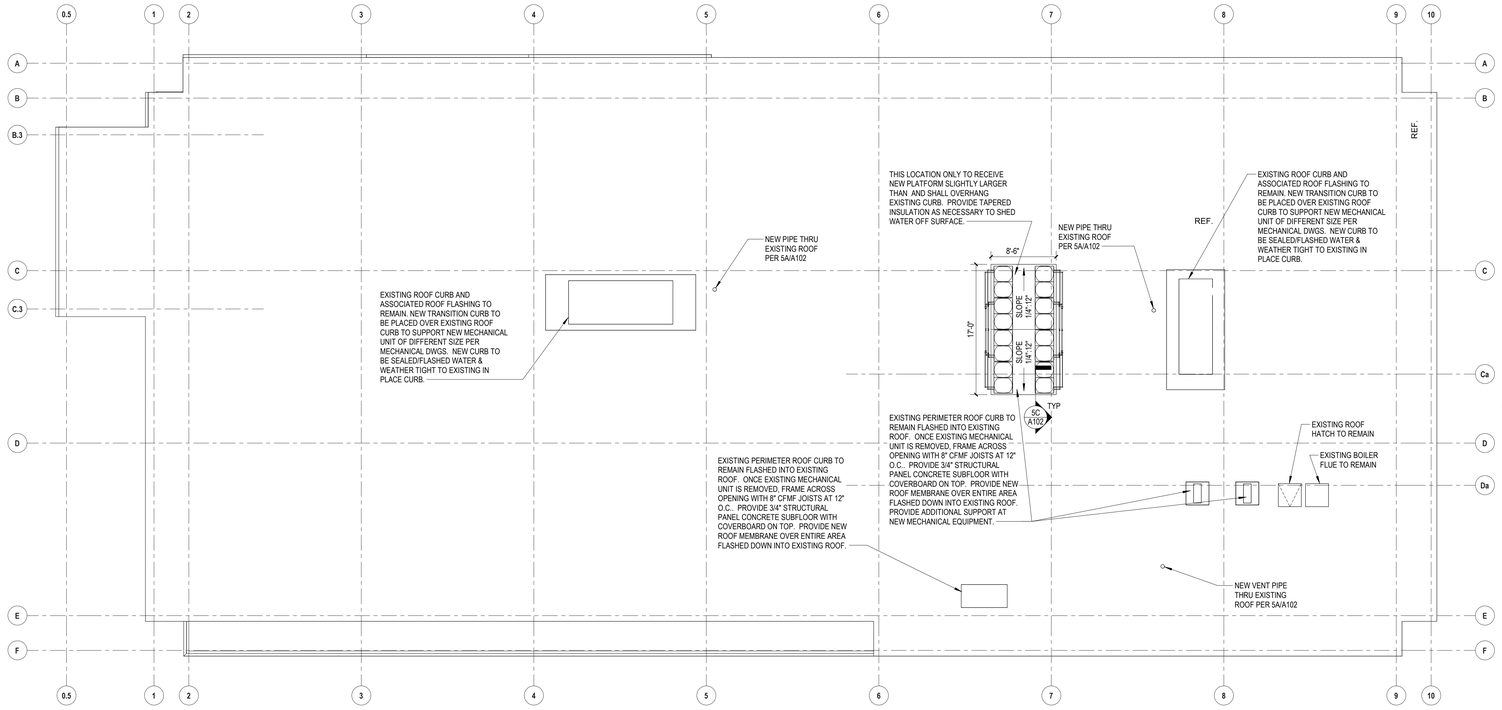
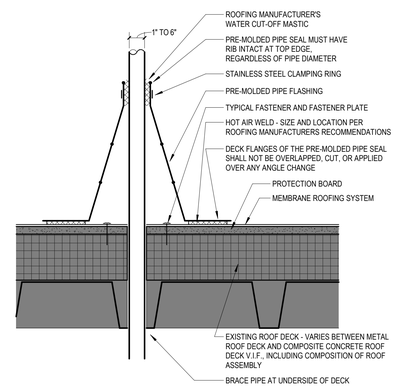
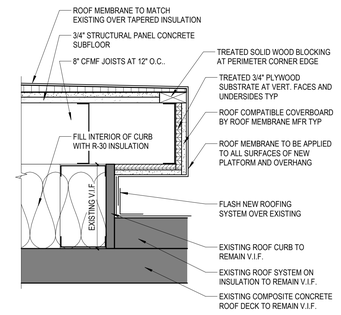


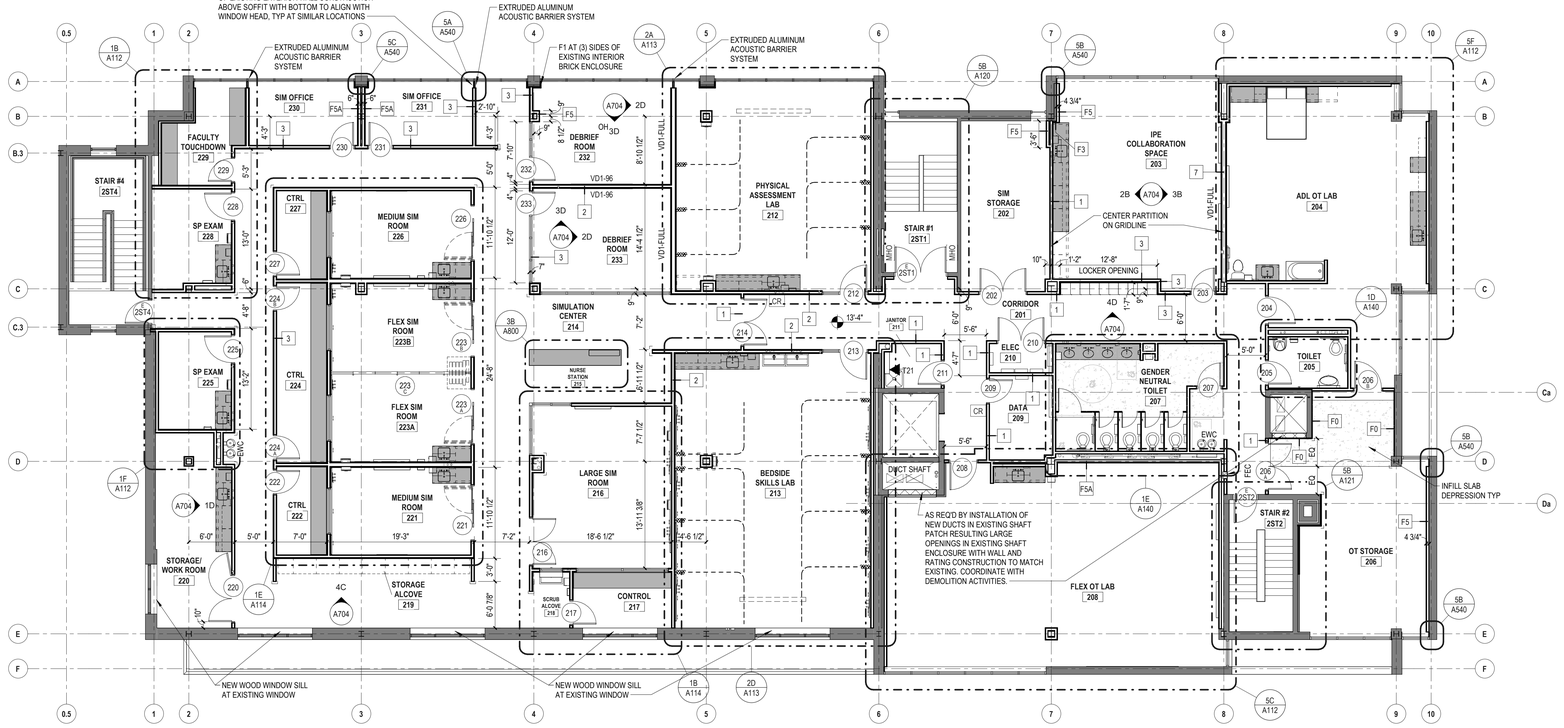
1C ROOF PLAN
1/8" = 1'-0"



5A TYPICAL MECHANICAL PIPE PENETRATION - EXISTING ROOFING SYSTEM
3" = 1'-0"



5C PLATFORM ON EXISTING ROOF CURB
1 1/2" = 1'-0"



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

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL INFORMATION SHEET GI01 FOR LIST OF TYPICAL ABBREVIATIONS AND TYPICAL ARCHITECTURAL GRAPHIC LEGENDS AND SYMBOLS.

2. REFER TO TYPICAL PARTITION TYPES AND DETAILS SHEETS A600 & A601. ALL PARTITIONS SHALL BE TYPE 1 U.O.N. ALL MASONRY PARTITIONS SHALL BE TYPE M8 U.O.N. FOR ACOUSTIC CONTINUITY AT TOPS OF PARTITIONS CENTERED ON OR DIRECTLY ADJACENT TO STEEL BEAMS REFER TO SPECIFIC DETAILS ON SHEET A600.

3. REFER TO CODE INFORMATION AND FIRE SAFETY PLAN DRAWINGS FOR LOCATIONS OF FIRE-RESISTANCE RATED PARTITIONS AND NON-FIRE-RESISTANCE RATED SMOKE PARTITIONS LS-SERIES DRAWINGS.

4. ALIGN PARTITIONS WITH COLUMN OR MULLION CENTERLINE, UNLESS OTHERWISE NOTED.

5. DIMENSIONS ARE FROM FACE OF WALL TO FACE OF WALL, (I.E. FACE OF GYPSUM BOARD OR MASONRY) OR FROM FACE OF EXISTING CONDITION OR FROM COLUMN CENTERLINE, UNLESS OTHERWISE NOTED. DIMENSIONS NOTED AS "CLEAR" SHALL BE FROM FINISH FACE TO FINISH FACE, (ie. FACE OF CERAMIC TILE TO FACE OF CERAMIC TILE). VERIFY ALL EXISTING DIMENSIONS IN THE FIELD.

6. ALL MASONRY DIMENSIONS, INDICATED "M.O.", ARE NOMINAL DIMENSIONS, UNLESS OTHERWISE NOTED. ACTUAL MASONRY OPENING DIMENSION = NOMINAL MASONRY OPENING DIMENSION + ONE MORTAR JOINT (I.E., 4'-0" M.O. = 4'-0" + 3/8" ACTUAL OPENING DIMENSION).

7. REFER TO PLAN ENLARGEMENTS FOR ADDITIONAL DIMENSIONS AND PARTITION TYPE INFORMATION.

8. REFER TO DOOR AND FRAME DETAILS FOR ADDITIONAL INFORMATION. PROVIDE MINIMUM 6-INCH CLEARANCE FROM FACE OF DOOR JAMB TO FACE OF ADJACENT WALL, UNLESS OTHERWISE NOTED.

9. REFER TO TYPICAL MOUNTING LOCATIONS AND HEIGHTS FOR TOILET ACCESSORIES, EQUIPMENT, WALL SPECIALTY DESIGNATIONS, VISUAL DISPLAY BOARDS, ETC.; TYPICAL TOILET ROOM ELEVATIONS AND TOILET ACCESSORY SCHEDULE SHEET A701.

10. PROVIDE FIRE-TREATED WOOD BLOCKING OR MINIMUM 0.0312-INCH THICK STEEL FLAT STRAP AND BACKING PLATE AT, BUT NOT LIMITED TO, THE FOLLOWING LOCATIONS: TOILET ACCESSORIES, CASEWORK, MILLWORK, DOOR WALL BUMPERS, AND ALL OTHER WALL MOUNTED EQUIPMENT OR DEVICES.

11. ALL EXISTING PARTITIONS INDICATED ON THE FIRE SAFETY PLANS TO BE SMOKE PARTITIONS, SMOKE BARRIERS, OR FIRE-RATED PARTITIONS THAT DO NOT CURRENTLY EXTEND TO UNDERSIDE OF FLOOR SLAB SHALL BE MODIFIED TO EXTEND TO SLAB AND SHALL COMPLY WITH DETAILS SHOWN FOR NEW PARTITIONS. ALL PENETRATIONS OR VOIDS SHALL BE SEALED SMOKE-TIGHT AND/OR BE FIRE-STOPPED AS REQUIRED.

12. REFER TO THE EQUIPMENT PLANS FOR VISUAL DISPLAY BOARD, RESIDENTIAL APPLIANCE, FIXED AUDITORIUM SEATING, PROJECTION SCREEN AND TOILET ACCESSORY LOCATIONS. REFER TO THE EQUIPMENT PLANS FOR EQUIPMENT LOCATIONS AND SCHEDULE.

13. REFER TO THE FINISH PLANS FOR FLOOR PATTERNS.

14. FLOOR PATCH AND FLOOR LEVELING: REPAIR EXISTING TOPPING SLAB AND CONCRETE FLOOR AT DEMOLITION OF WALLS AND AT ALL OTHER LOCATIONS AS REQUIRED. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

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C) PATCH ALL DEFECTS IN, AND FINISH TO MATCH EXISTING, ALL AREAS WHICH ARE TO RECEIVE NEW MATERIALS, FINISHES AND ITEMS CALLED FOR IN THE CONTRACT DOCUMENTS. PREPARE ALL EXISTING SURFACES TO RECEIVE NEW FINISHES AS REQUIRED.

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KEYPLAN

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SECOND FLOOR AND ROOF PLANS

Date: 04/07/2022
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Drawing Number: A102

Autodesk Docs://20287 - IONA College School of Health Sciences/A_20287_IONA COLLEGE SCHOOL OF HEALTH SCIENCES_R22.rvt
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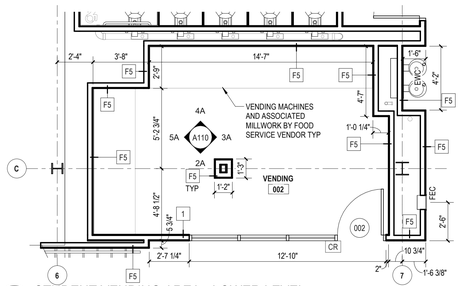
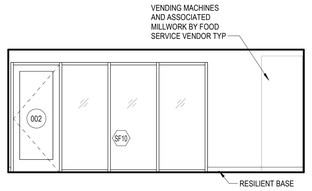
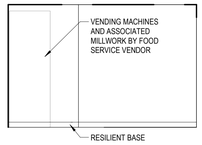


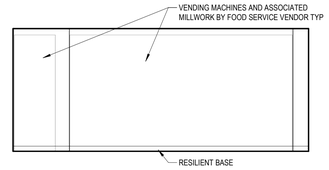
1A STUDENT VENDING AREA - LOWER LEVEL
1/4" = 1'-0"



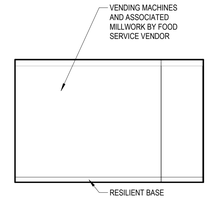
2A VENDING - LOWER LEVEL SOUTH
1/4" = 1'-0"



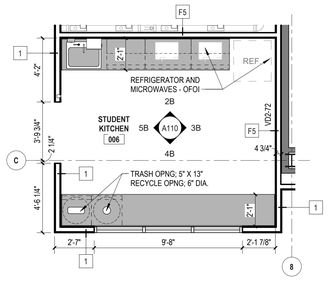
3A VENDING - LOWER LEVEL EAST
1/4" = 1'-0"



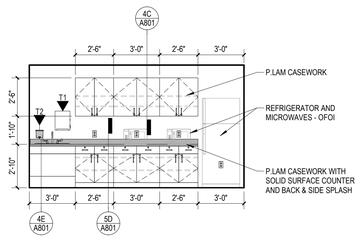
4A VENDING - LOWER LEVEL NORTH
1/4" = 1'-0"



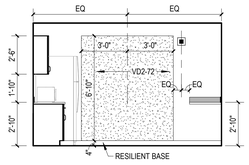
5A VENDING -LOWER LEVEL WEST
1/4" = 1'-0"



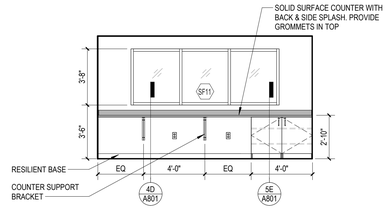
1B STUDENT KITCHEN AREA - LOWER LEVEL
1/4" = 1'-0"



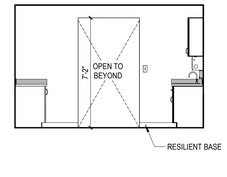
2B STUDENT KITCHEN - NORTH
1/4" = 1'-0"



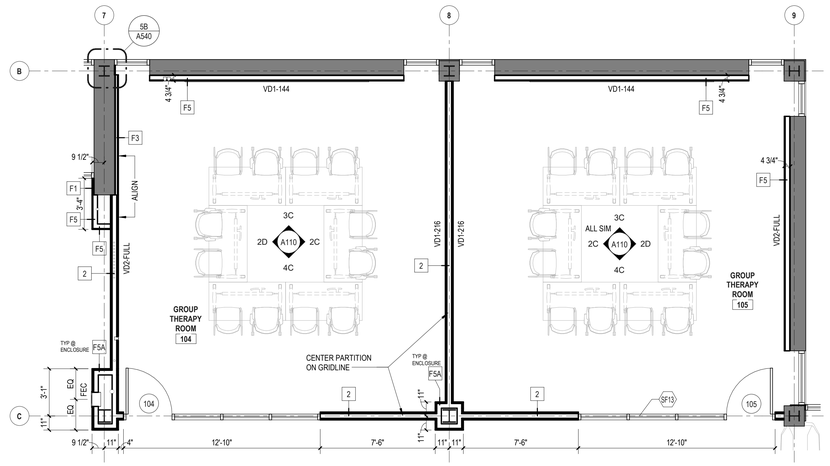
3B STUDENT KITCHEN - EAST
1/4" = 1'-0"



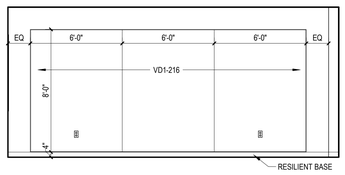
4B STUDENT KITCHEN - SOUTH
1/4" = 1'-0"



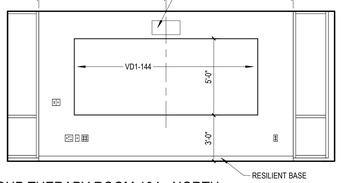
5B STUDENT KITCHEN - WEST
1/4" = 1'-0"



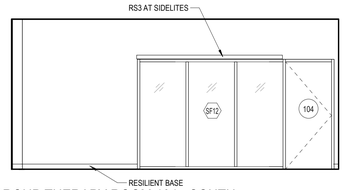
1D GROUP THERAPY ROOMS 104 & 106
1/4" = 1'-0"



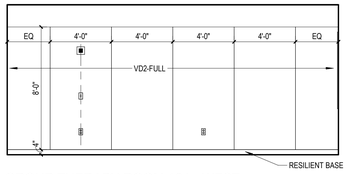
2C GROUP THERAPY ROOM 104 - EAST
1/4" = 1'-0"



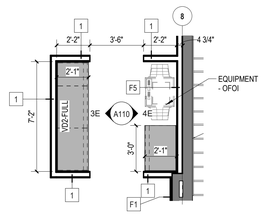
3C GROUP THERAPY ROOM 104 - NORTH
1/4" = 1'-0"



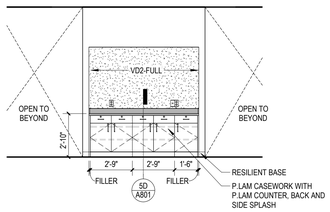
4C GROUP THERAPY ROOM 104 - SOUTH
1/4" = 1'-0"



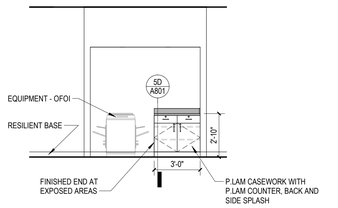
2D GROUP THERAPY ROOM 104 - WEST
1/4" = 1'-0"



2E FACULTY TOUCHDOWN
115 - WORK AREA
1/4" = 1'-0"



3E WORK AREA 115 - WEST
1/4" = 1'-0"



4E WORK AREA 115 - EAST
1/4" = 1'-0"

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KEYPLAN

Number	Date	Issued For

ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS

Date
04/07/2022
Scale
1/4" = 1'-0"
Proj. Number
20287.10

Drawing Number
A110

Autodesk Docs://20287 - IONA College School of Health Sciences/A_20287_IONA COLLEGE SCHOOL OF HEALTH SCIENCES_R22.rvt
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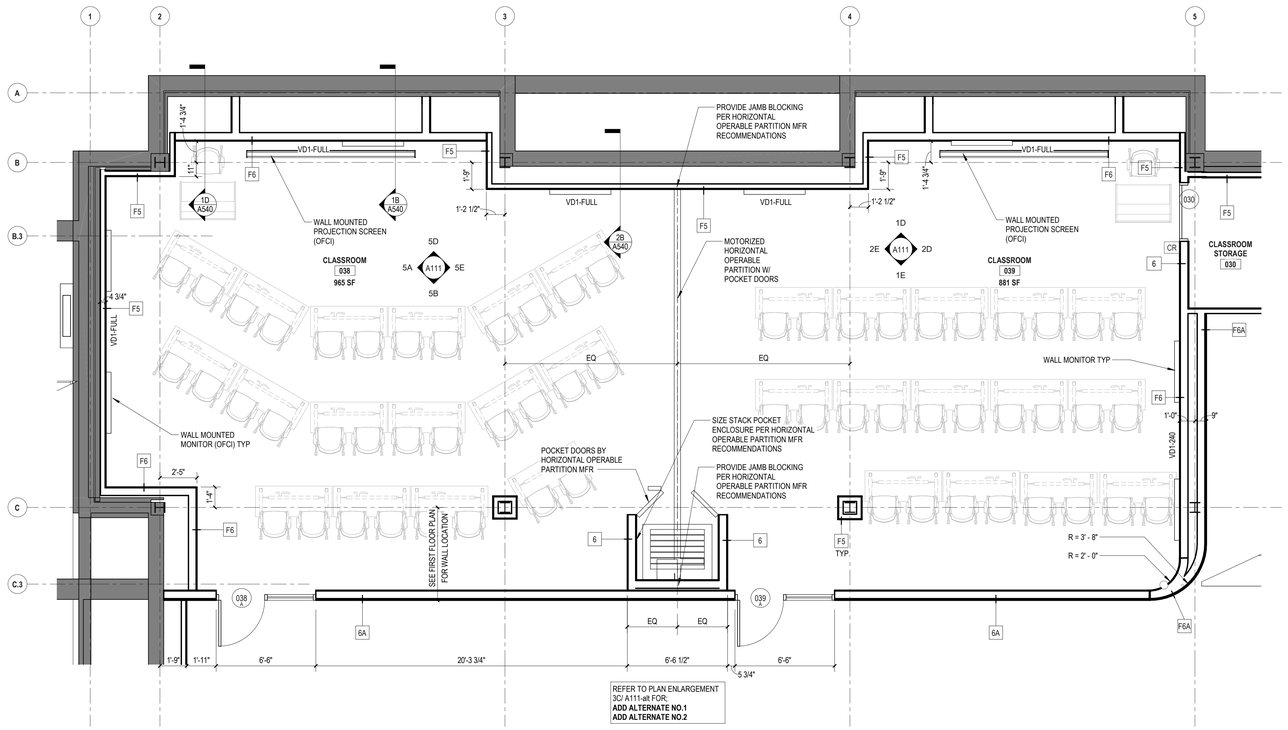
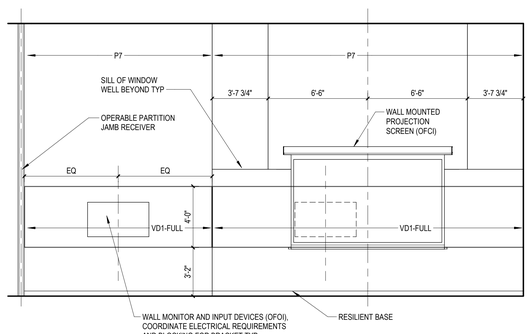
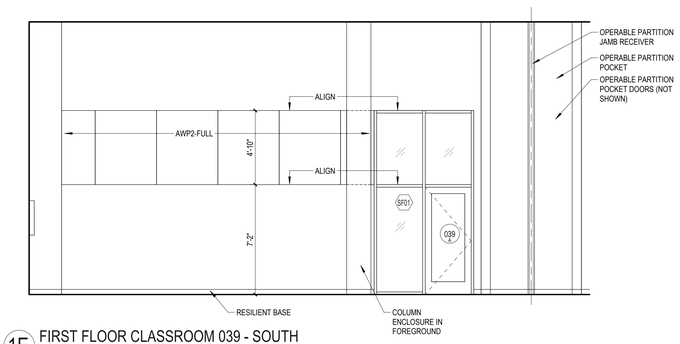


1C CLASSROOMS - LOWER LEVEL
1/4" = 1'-0"

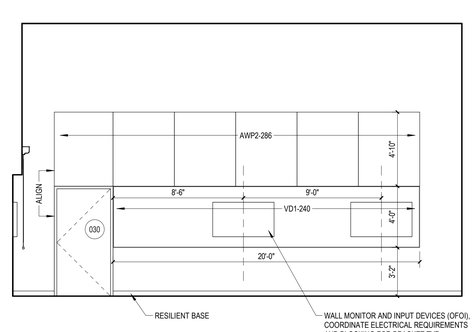


1D FIRST FLOOR CLASSROOM 039 - NORTH
1/4" = 1'-0"

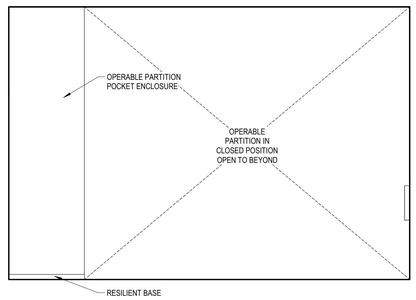


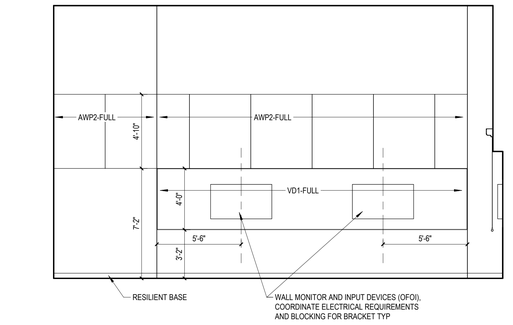
1E FIRST FLOOR CLASSROOM 039 - SOUTH
1/4" = 1'-0"

2D FIRST FLOOR CLASSROOM 039 - EAST
1/4" = 1'-0"

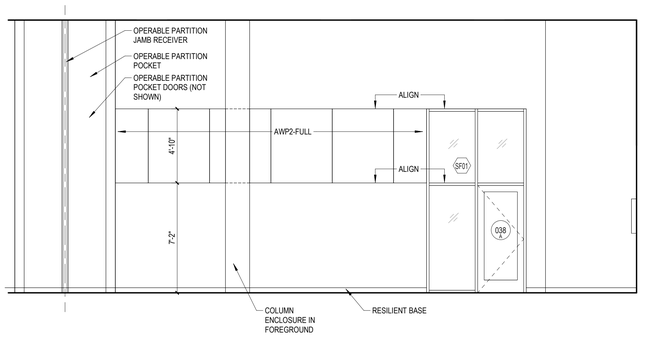


2E FIRST FLOOR CLASSROOM 039 - WEST
1/4" = 1'-0"

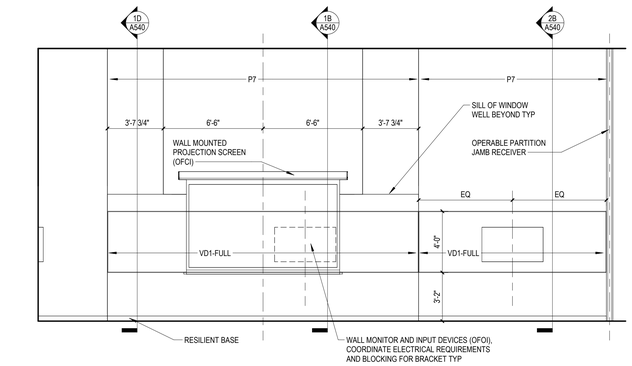




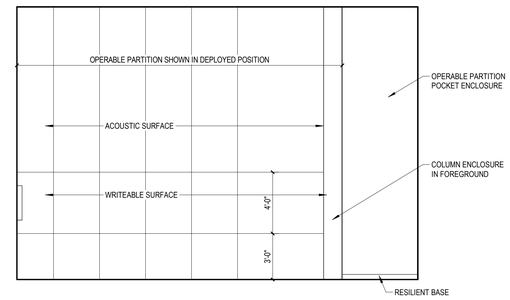
5A FIRST FLOOR CLASSROOM 038 - WEST
1/4" = 1'-0"



5B FIRST FLOOR CLASSROOM 038 - SOUTH
1/4" = 1'-0"



5D FIRST FLOOR CLASSROOM 038 - NORTH
1/4" = 1'-0"



5E FIRST FLOOR CLASSROOM 038 - EAST
1/4" = 1'-0"

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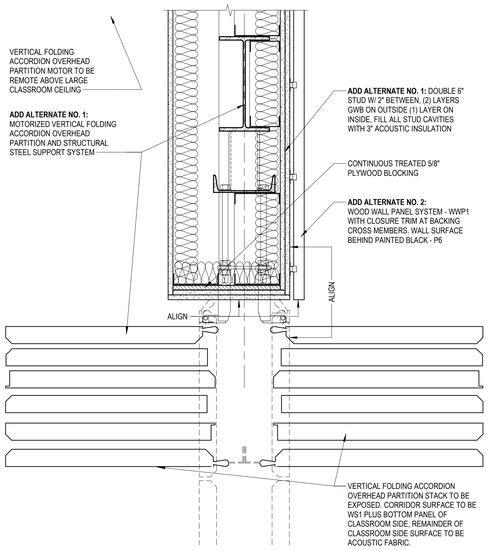
KEYPLAN

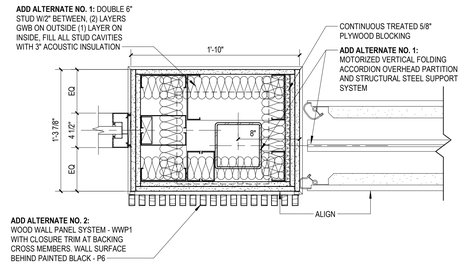
Number	Date	Issued For

ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS

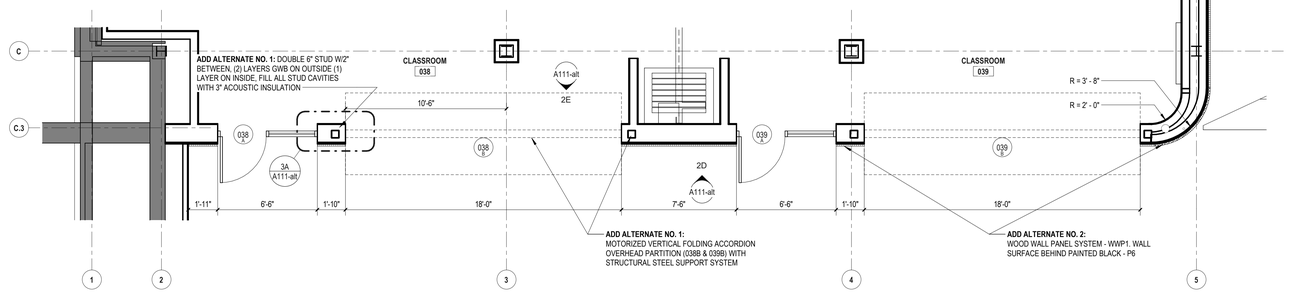
Date: 04/07/2022
Scale: 1/4" = 1'-0"
Proj. Number: 20287.10
Drawing Number: A111



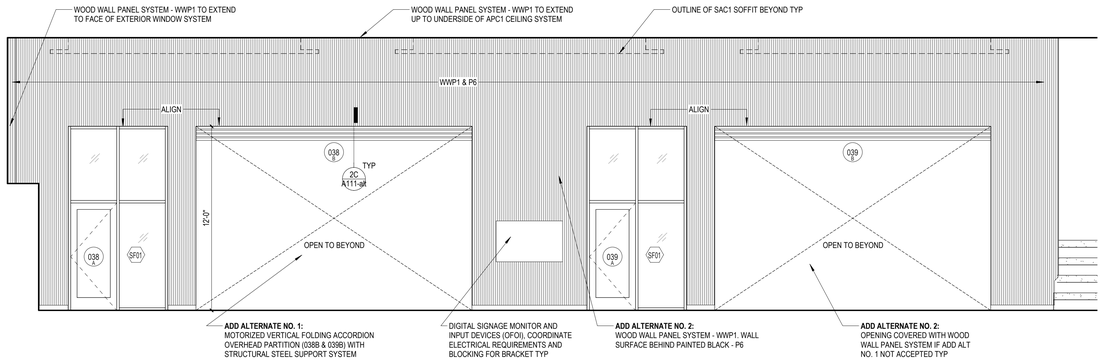
2C ADD ALT NO. 1 - PARTITION HEAD DETAIL
ADD ALT NO. 2 - HEAD AT OPENING WITH WOOD PANEL
1 1/2" = 1'-0"



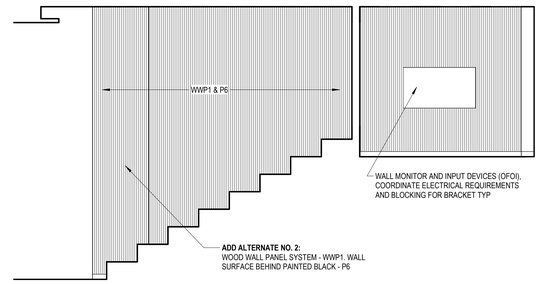
3A ADD ALT NO. 1 - PARTITION JAMB DETAIL
ADD ALT NO. 2 - JAMB AT OPENING WITH WOOD PANEL
1 1/2" = 1'-0"



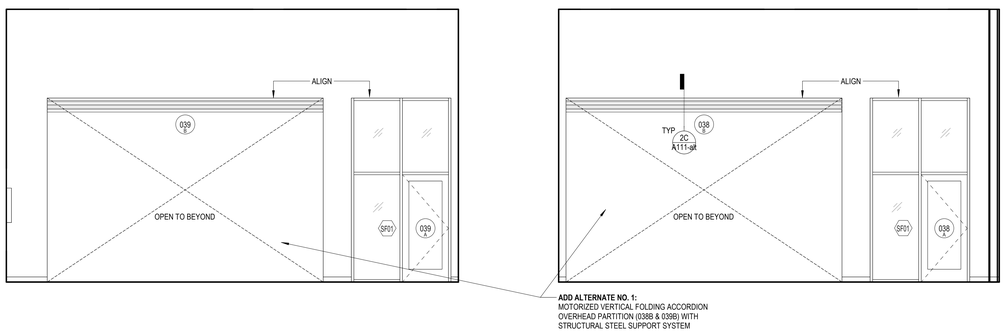
3C CLASSROOMS - LOWER LEVEL - ADD ALTERNATES
1/4" = 1'-0"



2D ALTERNATES - EXTERIOR OF CLASSROOMS 038 & 039
1/4" = 1'-0"



4D ALTERNATES - EXTERIOR EAST SIDE OF CLASSROOM 039
1/4" = 1'-0"



2E ALTERNATES - INTERIOR OF CLASSROOMS 038 & 039
1/4" = 1'-0"

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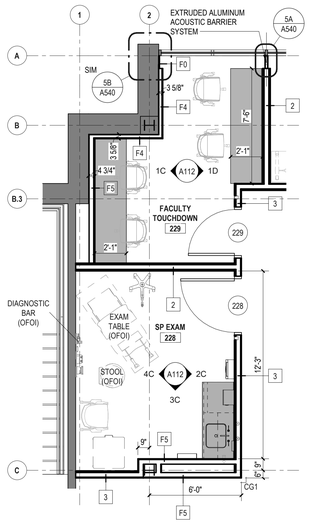
KEYPLAN

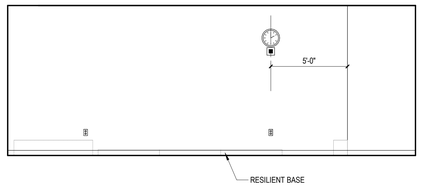
Number	Date	Issued For

ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS ADD ALTERNATES

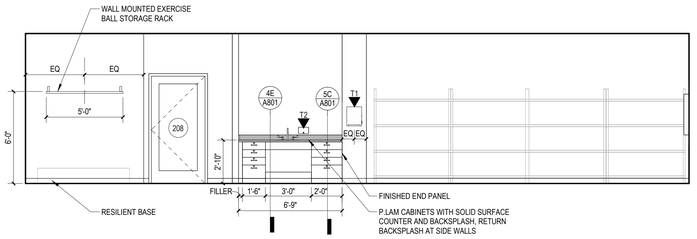
Date 04/07/2022
Scale As indicated
Proj. Number 20287.10
Drawing Number A111-alt



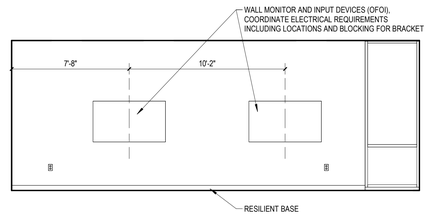
SP EXAM 228 & FACILITY TOUCHDOWN 229 - SECOND FLOOR
1B 1/4" = 1'-0"



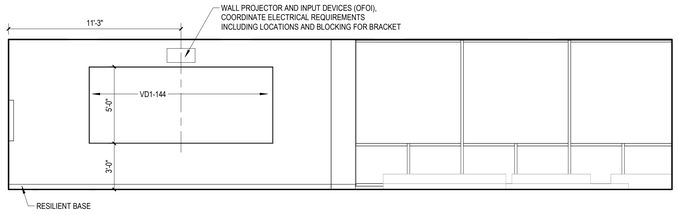
2A FLEX OT LAB - WEST
1/4" = 1'-0"



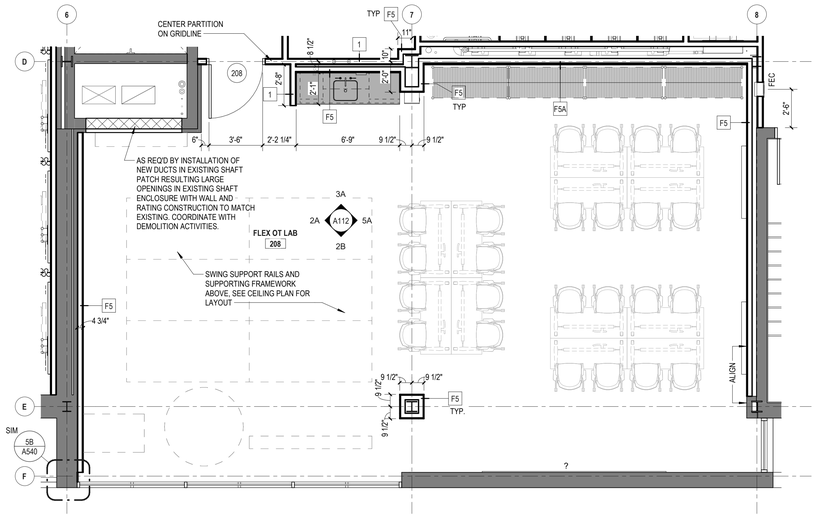
3A FLEX OT LAB - NORTH
1/4" = 1'-0"



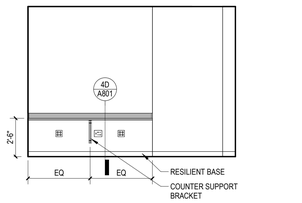
5A FLEX OT LAB - EAST
1/4" = 1'-0"



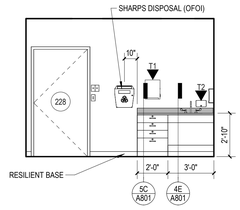
2B FLEX OT LAB - SOUTH
1/4" = 1'-0"



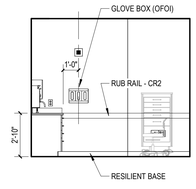
5C FLEX OT LAB - SECOND FLOOR
1/4" = 1'-0"



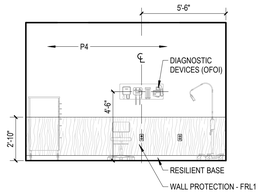
1C FACULTY TOUCHDOWN 229 - WEST
1/4" = 1'-0"



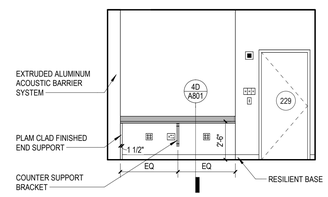
2C SP EXAM 228 - EAST
1/4" = 1'-0"



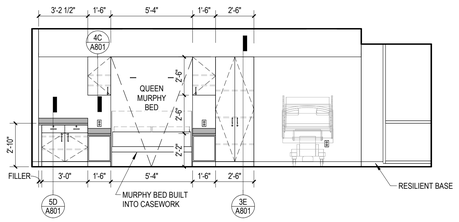
3C SP EXAM 228 - SOUTH
1/4" = 1'-0"



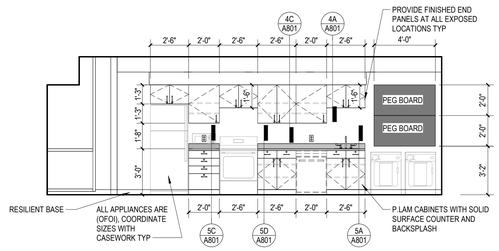
4C SP EXAM 228 - WEST
1/4" = 1'-0"



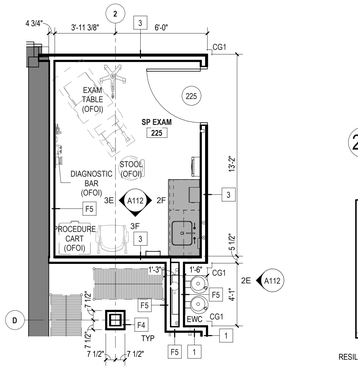
1D FACULTY TOUCHDOWN 229 - EAST
1/4" = 1'-0"



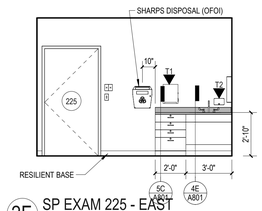
2D ADL OT LAB - NORTH
1/4" = 1'-0"



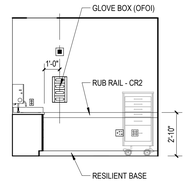
3D ADL OT LAB - EAST
1/4" = 1'-0"



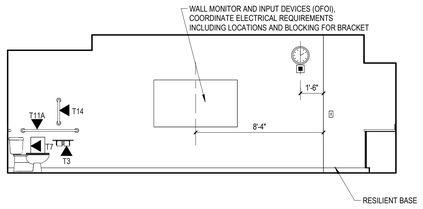
1F SP EXAM 225 - SECOND FLOOR
1/4" = 1'-0"



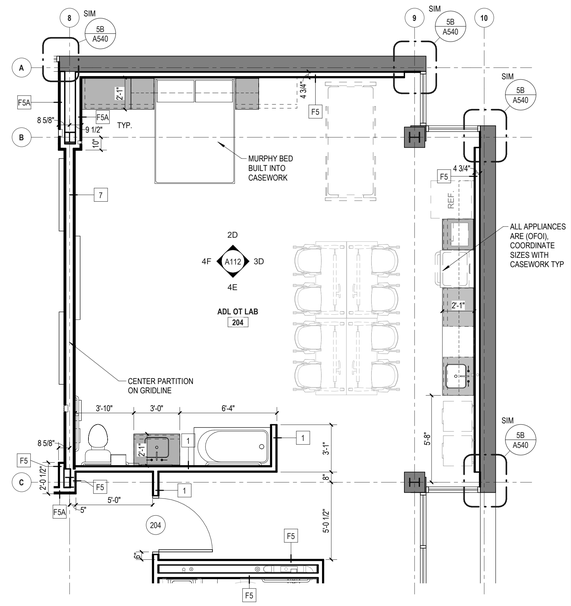
2F SP EXAM 225 - EAST
1/4" = 1'-0"



3F SP EXAM 225 - SOUTH
1/4" = 1'-0"



4F ADL OT LAB - WEST
1/4" = 1'-0"



5F ADL OT LAB - SECOND FLOOR
1/4" = 1'-0"

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KEYPLAN

Number	Date	Issued For

ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS

Date: 04/07/2022
Scale: 1/4" = 1'-0"
Proj. Number: 20287.10
Drawing Number: A112

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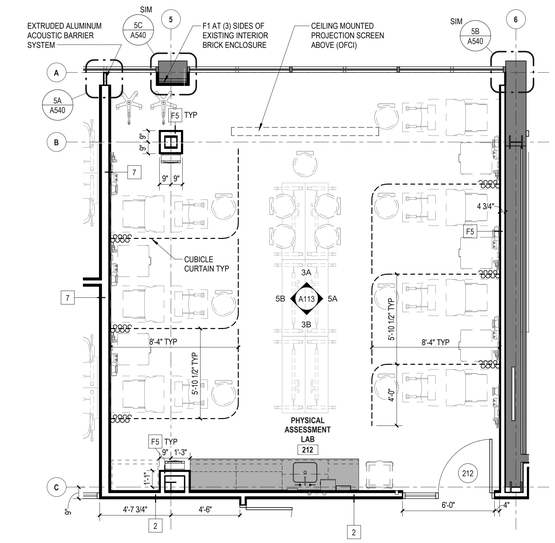
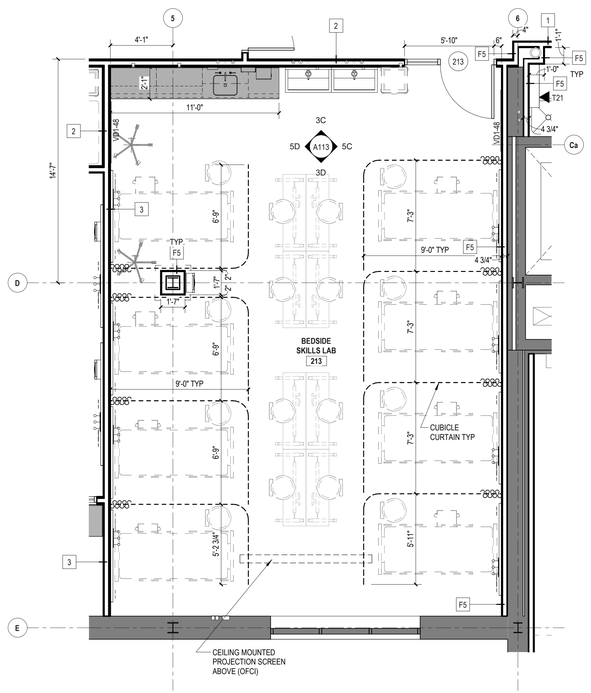
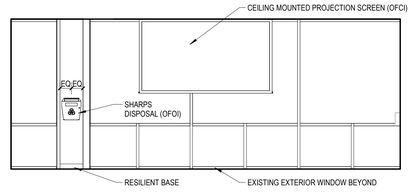


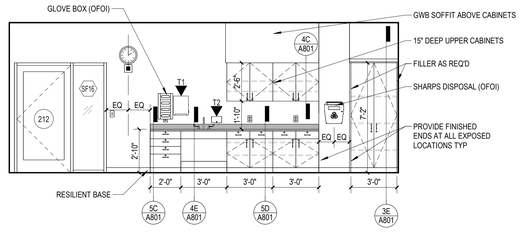
2A PHYSICAL ASSESSMENT LAB - SECOND FLOOR
1/4" = 1'-0"



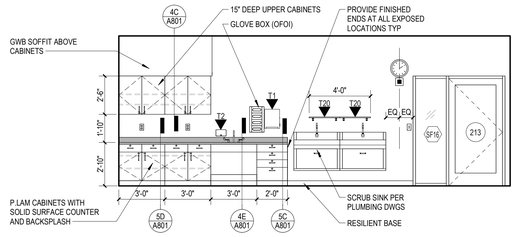
2D BEDSIDE SKILLS LAB - SECOND FLOOR
1/4" = 1'-0"



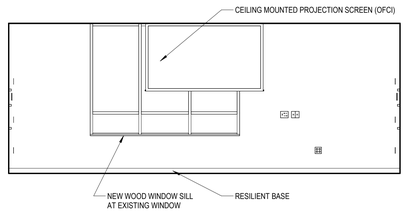
3A PHYSICAL ASSESSMENT LAB 212 - NORTH
1/4" = 1'-0"



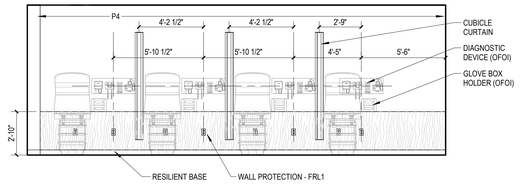
3B PHYSICAL ASSESSMENT LAB 212 - SOUTH
1/4" = 1'-0"



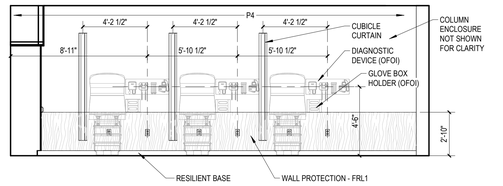
3C BEDSIDE SKILLS LAB - NORTH
1/4" = 1'-0"



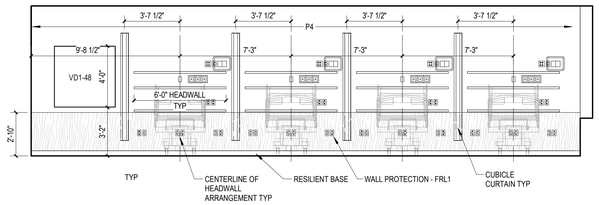
3D BEDSIDE SKILLS LAB - SOUTH
1/4" = 1'-0"



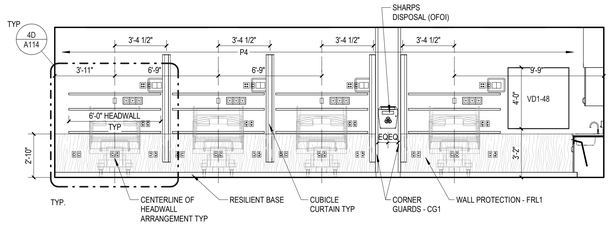
5A PHYSICAL ASSESSMENT LAB 212 - EAST
1/4" = 1'-0"



5B PHYSICAL ASSESSMENT LAB 212 - WEST
1/4" = 1'-0"



5C BEDSIDE SKILLS LAB - EAST
1/4" = 1'-0"



5D BEDSIDE SKILLS LAB - WEST
1/4" = 1'-0"

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Proj. Number
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Drawing Number
A113

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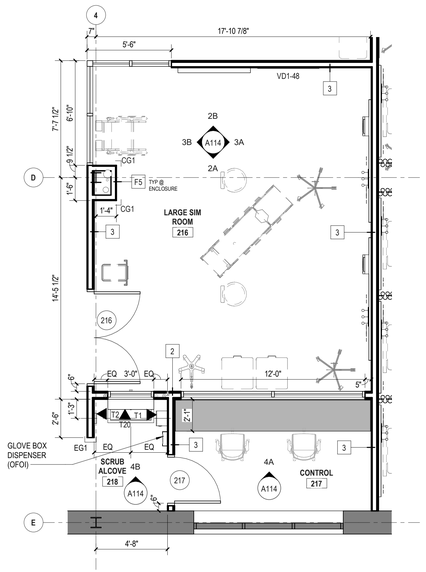
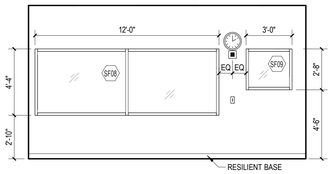
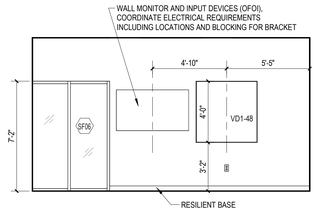


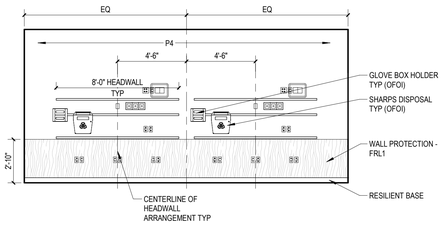
1B LARGE SIM ROOM 216 - SECOND FLOOR
1/4" = 1'-0"



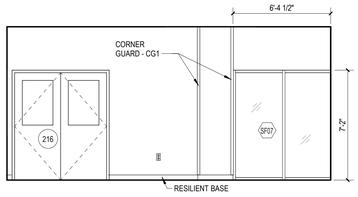
2A LARGE SIM ROOM 216 - SOUTH
1/4" = 1'-0"



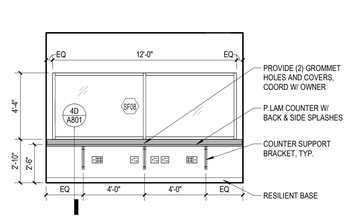
2B LARGE SIM ROOM 216 - NORTH
1/4" = 1'-0"



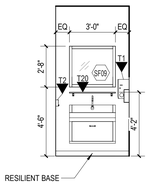
3A LARGE SIM ROOM 216 - EAST
1/4" = 1'-0"



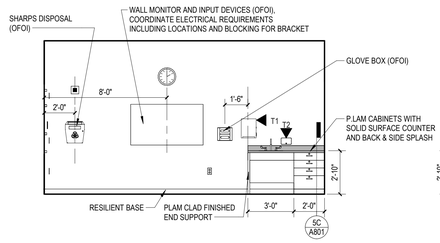
3B LARGE SIM ROOM 216 - WEST
1/4" = 1'-0"



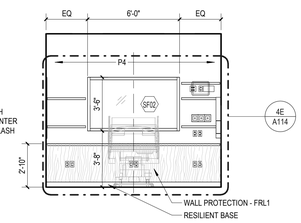
4A LARGE SIM CONTROL ROOM - NORTH
1/4" = 1'-0"



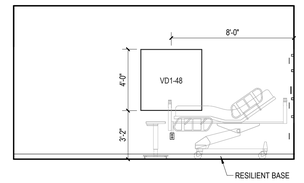
4B SCRUB ALCOVE 218 - NORTH
1/4" = 1'-0"



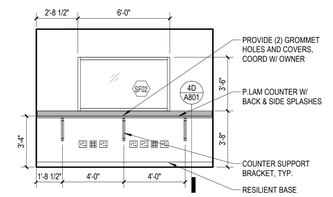
2C MEDIUM SIM ROOM 221 - NORTH
1/4" = 1'-0"



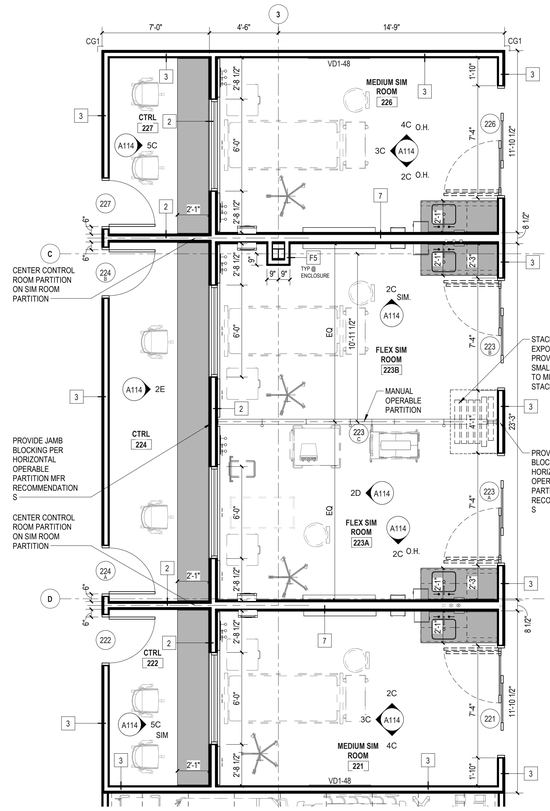
3C MEDIUM SIM ROOM 221 - WEST
1/4" = 1'-0"



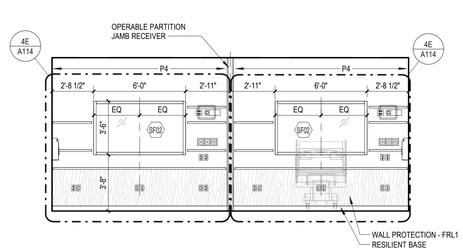
4C MEDIUM SIM ROOM 221 - SOUTH
1/4" = 1'-0"



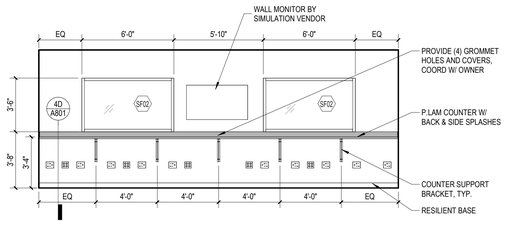
5C CONTROL ROOM 227 - EAST
1/4" = 1'-0"



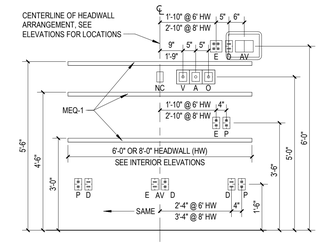
1E MEDIUM SIM ROOMS - SECOND FLOOR
1/4" = 1'-0"



2D FLEX SIM ROOM 223A & 223B - WEST
1/4" = 1'-0"



2E CONTROL ROOM 224 - EAST
1/4" = 1'-0"



4D TYPICAL HORIZONTAL HEADWALL
1/2" = 1'-0"

HEADWALL LEGEND

V VACUUM, DISS CONNECTION, SEE PLUMBING DRAWINGS

A COMPRESSED AIR, DISS CONNECTION, SEE PLUMBING DRAWINGS

O SIMULATED OXYGEN, DISS CONNECTION, (SAME SUPPLY AS COMPRESSED AIR), SEE PLUMBING DRAWINGS

P POWER (WHITE OUTLET AND FACE PLATE), SEE ELECTRICAL DRAWINGS

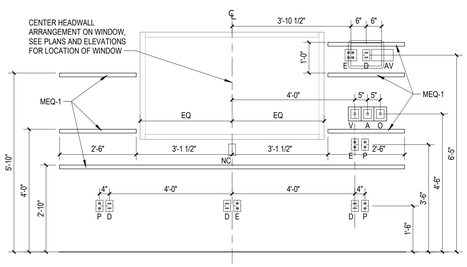
E SIMULATED EMERGENCY POWER (SAME CIRCUIT AS REGULAR POWER, RED OUTLET AND FACEPLATE INSTEAD OF WHITE

D DATA, SEE DATA DRAWINGS

AV AUDIOVISUAL CONNECTION, SEE AV DRAWINGS

NC SIMULATED NURSE CALL. PROVIDE CARLON AS217D DEEP 4/S PLASTIC BACK BOX WITH SINGLE GANG PLASTIC MUD RING OR EQUIVALENT. WIRELESS MOCK NURSE CALL WALL PLATE WILL BE OFOI PROCURED THROUGH POCKETNURSE OR EQUIVALENT.

MEQ-1 HEADWALL RAIL AND ACCESSORIES, B.O.D. PALADIN EVOLUTION
3 RAILS (R210) AT EACH HORIZONTAL CONDITION (EITHER 6'-0" OR 8'-0")
6 RAILS (R210) AT EACH VERTICAL CONDITION AT VARYING LENGTHS
+ ACCESSORIES BELOW FOR EACH INSTANCE:
(QTY 3) AC101-PM (QTY 1) SM304-P
(QTY 1) IC117-P (QTY 1) IC112-P
(QTY 1) AC109-PM
(QTY 1) DEM100-K (NO RAILS)



4E TYPICAL VERTICAL HEADWALL
1/2" = 1'-0"

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ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS

Date: 04/07/2022
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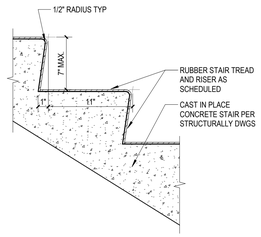
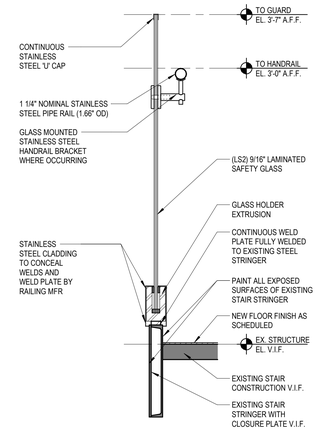
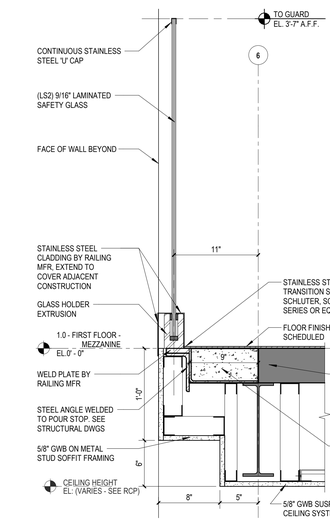


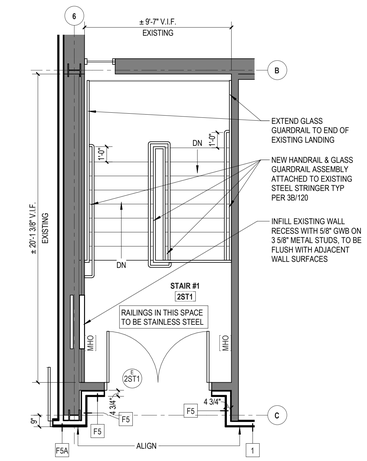
2B DETAIL AT CAST IN PLACE CONCRETE STAIR
1 1/2" = 1'-0"



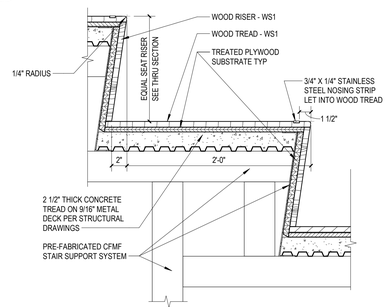
3B GLASS RAILING ON EXISTING STRINGER
1 1/2" = 1'-0"



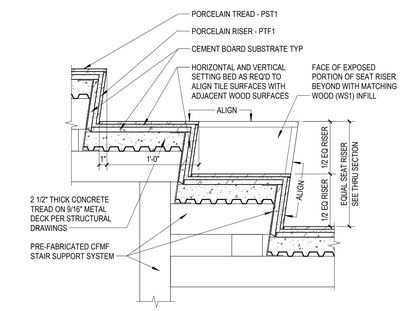
GLASS GUARDRAIL AT EXISTING FLOOR AND CEILING SOFFIT CONDITION
4B 1 1/2" = 1'-0"



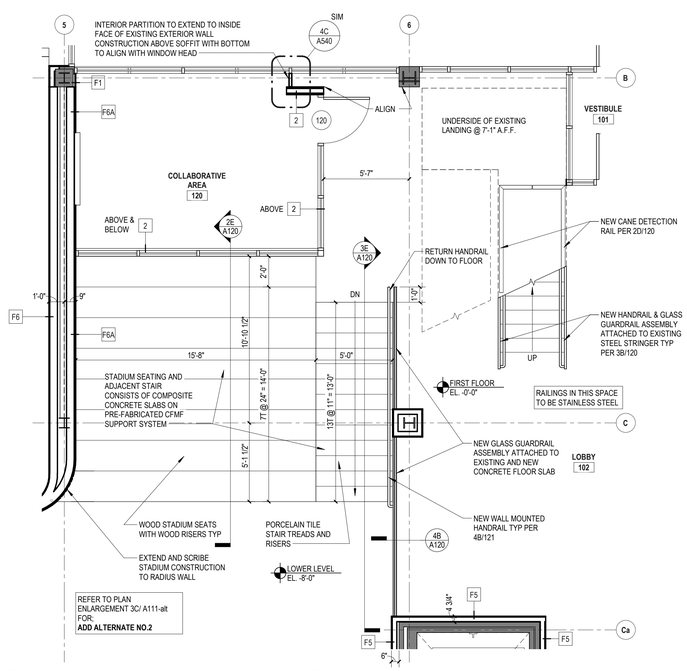
5B STAIR #1 - SECOND FLOOR PLAN
1/4" = 1'-0"



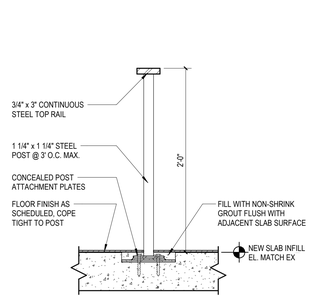
2C DETAIL AT STADIUM SEAT
1 1/2" = 1'-0"



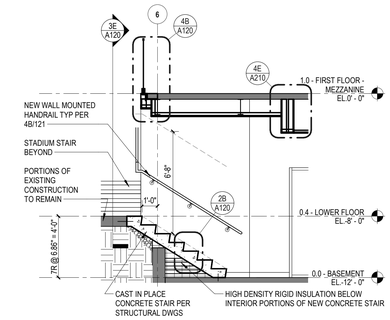
3C DETAIL AT STADIUM STAIR
1 1/2" = 1'-0"



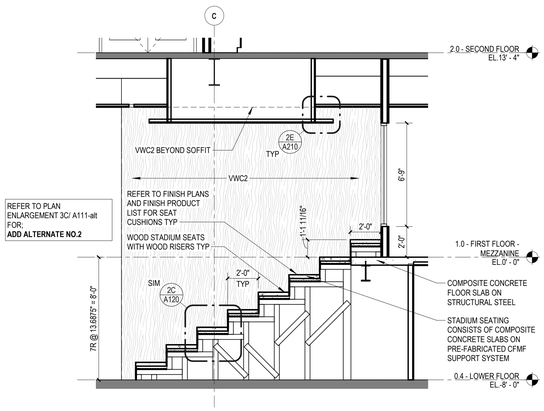
4D STADIUM STAIR AND STAIR #1 - FIRST FLOOR
1/4" = 1'-0"



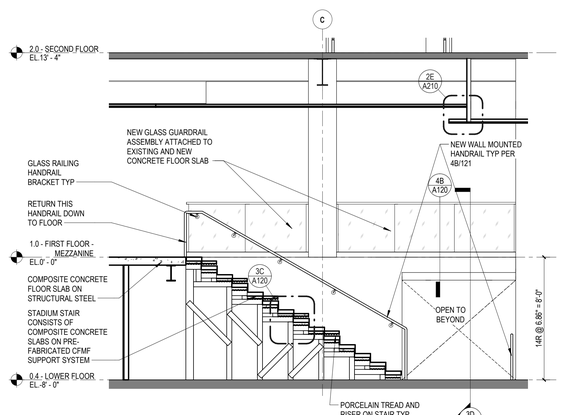
2D DETAIL AT CANE DETECTION RAIL
1 1/2" = 1'-0"



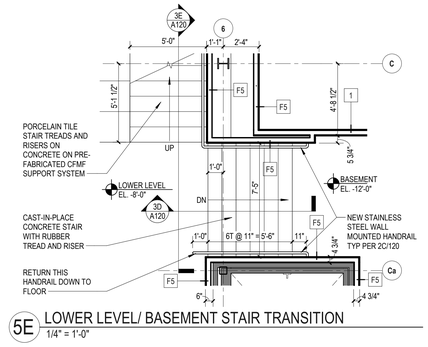
3D SECTION AT CONCRETE STAIR
1/4" = 1'-0"



2E SECTION AT STADIUM STAIR - SEATING AERA
1/4" = 1'-0"



3E SECTION AT STADIUM STAIR - EGRESS STAIR
1/4" = 1'-0"



5E LOWER LEVEL/ BASEMENT STAIR TRANSITION
1/4" = 1'-0"

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ENLARGED STAIR PLANS, SECTIONS AND DETAILS

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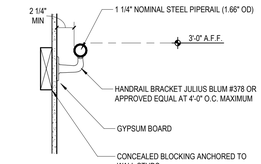
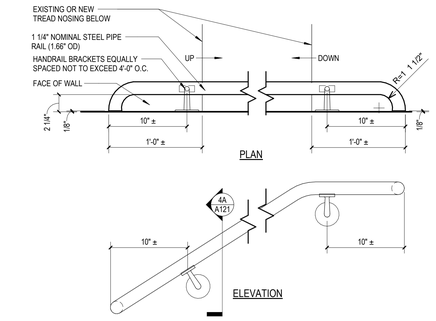
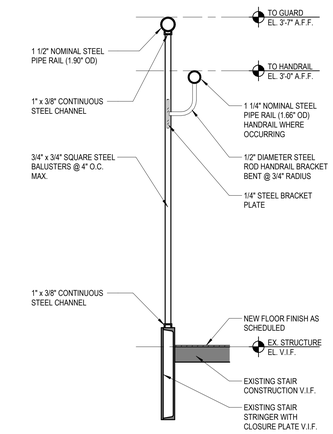


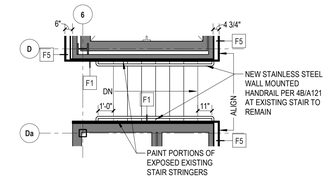
4A DETAIL AT HANDRAIL BRACKET
1 1/2" = 1'-0"



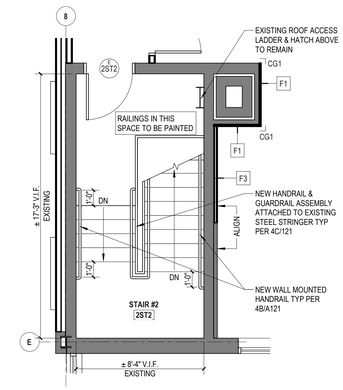
4B ELEVATION & PLAN OF STAIR HANDRAIL
1 1/2" = 1'-0"



4C METAL GUARDRAIL ON EXISTING STRINGER
1 1/2" = 1'-0"



5A STAIR #3 - LOWER LEVEL
1/4" = 1'-0"



5B STAIR #2 - SECOND FLOOR
1/4" = 1'-0"

5D STAIR #2 - FIRST FLOOR
1/4" = 1'-0"

5E STAIR #2 - LOWER LEVEL
1/4" = 1'-0"

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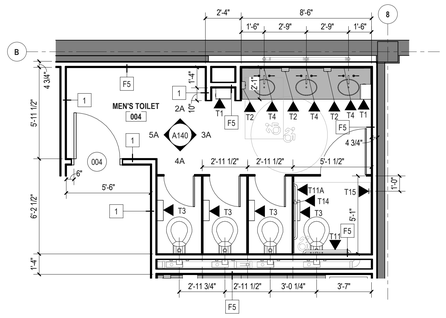
KEYPLAN

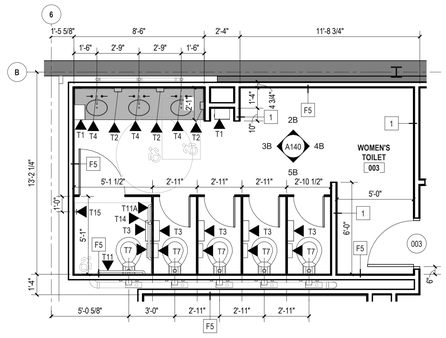
Number	Date	Issued For

ENLARGED STAIR PLANS, SECTIONS AND DETAILS

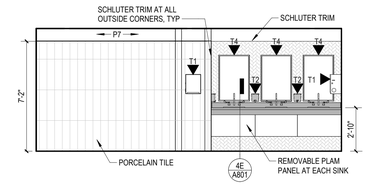
Date 04/07/2022
Scale As indicated
Proj. Number 20287.10
Drawing Number A121



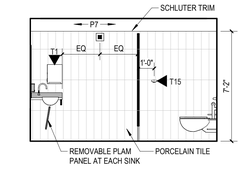
1A MEN'S TOILET ROOM 004
1/4" = 1'-0"



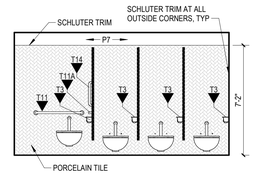
1B WOMEN'S TOILET ROOM 003
1/4" = 1'-0"



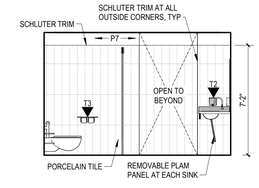
2A MEN'S TOILET 004 - NORTH
1/4" = 1'-0"



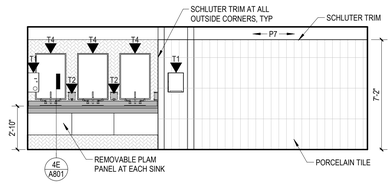
3A MEN'S TOILET 004 - EAST
1/4" = 1'-0"



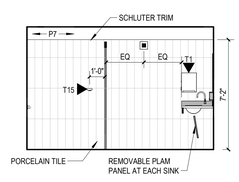
4A MEN'S TOILET 004 - SOUTH
1/4" = 1'-0"



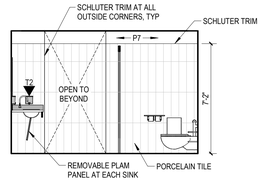
5A MEN'S TOILET 004 - WEST
1/4" = 1'-0"



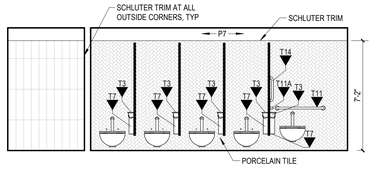
2B WOMEN'S TOILET 003 - NORTH
1/4" = 1'-0"



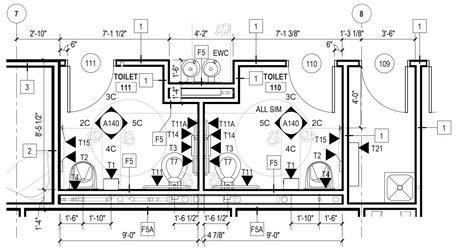
3B WOMEN'S TOILET 003 - WEST
1/4" = 1'-0"



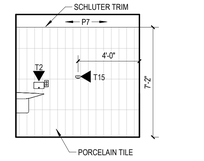
4B WOMEN'S TOILET 003 - EAST
1/4" = 1'-0"



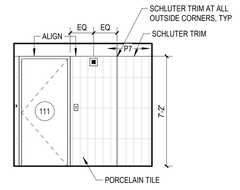
5B WOMEN'S TOILET 003 - SOUTH
1/4" = 1'-0"



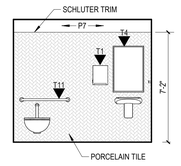
1C TOILET ROOMS - FIRST FLOOR
1/4" = 1'-0"



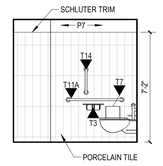
2C TOILET ROOM 111 - WEST
1/4" = 1'-0"



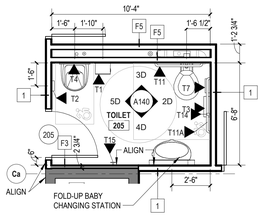
3C TOILET ROOM 111 - NORTH
1/4" = 1'-0"



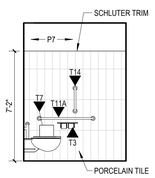
4C TOILET ROOM 111 - SOUTH
1/4" = 1'-0"



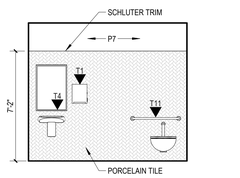
5C TOILET ROOM 111 - EAST
1/4" = 1'-0"



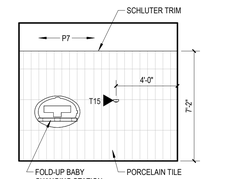
1D TOILET ROOM 205
1/4" = 1'-0"



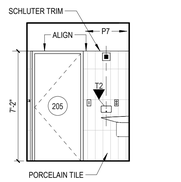
2D TOILET ROOM 205 - EAST
1/4" = 1'-0"



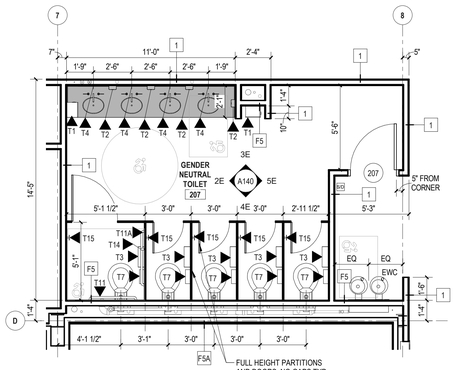
3D TOILET ROOM 205 - NORTH
1/4" = 1'-0"



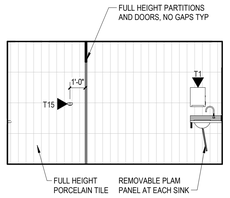
4D TOILET ROOM 205 - SOUTH
1/4" = 1'-0"



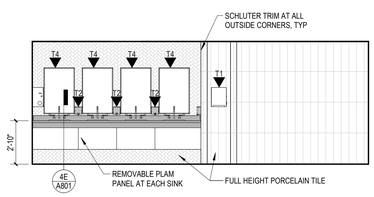
5D TOILET ROOM 205 - WEST
1/4" = 1'-0"



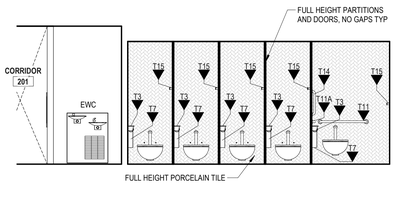
1E GENDER NEUTRAL TOILET ROOM 207
1/4" = 1'-0"



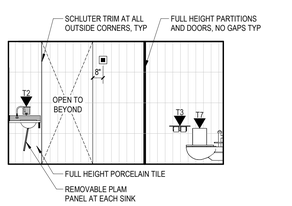
2E GENDER NEUTRAL TOILET 207 - WEST
1/4" = 1'-0"



3E GENDER NEUTRAL TOILET 207 - NORTH
1/4" = 1'-0"



4E GENDER NEUTRAL TOILET 207 - SOUTH
1/4" = 1'-0"



5E GENDER NEUTRAL TOILET 207 - EAST
1/4" = 1'-0"

TOILET PLAN GENERAL NOTES

1. REFER TO DWG. G101 FOR LIST OF TYPICAL ABBREVIATIONS AND TYPICAL ARCHITECTURAL GRAPHIC LEGENDS AND SYMBOLS.
2. DIMENSIONS ARE FROM FACE OF WALL TO FACE OF WALL, (I.E. FACE OF GYPSUM BOARD OR MASONRY) OR FROM COLUMN CENTERLINE, UNLESS OTHERWISE NOTED. DIMENSIONS NOTED AS "CLEAR" SHALL BE FROM FINISH FACE TO FINISH FACE, (ie. FACE OF CERAMIC TILE TO FACE OF CERAMIC TILE).
3. REFER TO DWG. A701 FOR TOILET ACCESSORIES TYPE DESCRIPTIONS, TYPICAL MOUNTING LOCATIONS AND HEIGHTS FOR TOILET ACCESSORIES.
4. PROVIDE FIRE-TREATED WOOD BLOCKING OR MINIMUM 0.0312-INCH THICK STEEL FLAT STRAP AND BACKING PLATE AT, BUT NOT LIMITED TO, THE FOLLOWING LOCATIONS: TOILET ACCESSORIES, AND ALL OTHER WALL MOUNTED EQUIPMENT OR DEVICES.
5. REFER TO FINISH SCHEDULE AND FINISH PLANS FOR TILE TYPE AND LOCATIONS. REFER TO THE FINISH PLANS FOR FLOOR PATTERNS AND INSTALLATION.
6. REFER TO DWG. **A600** FOR TYPICAL PARTITION TYPES AND DETAILS INDICATED.

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KEYPLAN

Number	Date	Issued For

ENLARGED TOILET ROOM PLANS AND ELEVATIONS

Date
04/07/2022
Scale
As indicated
Proj. Number
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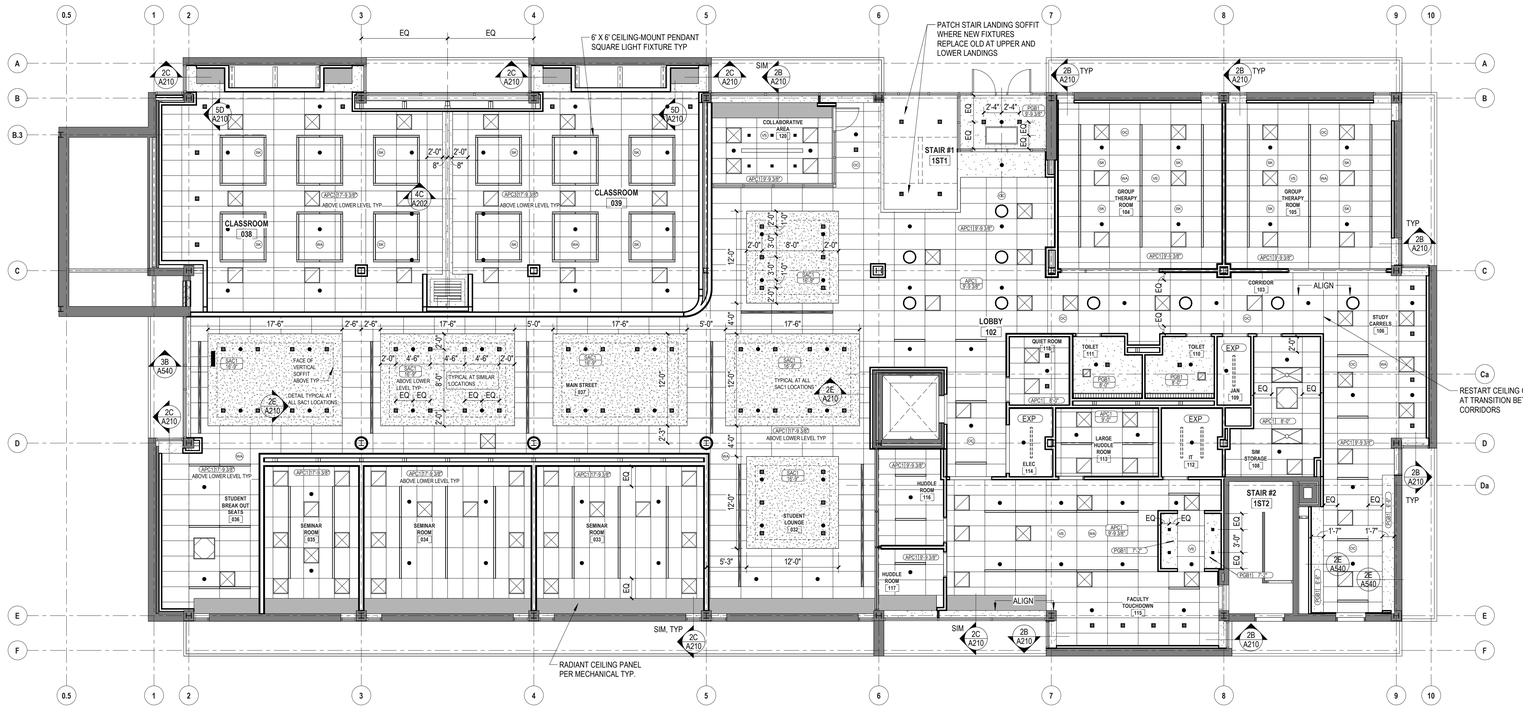
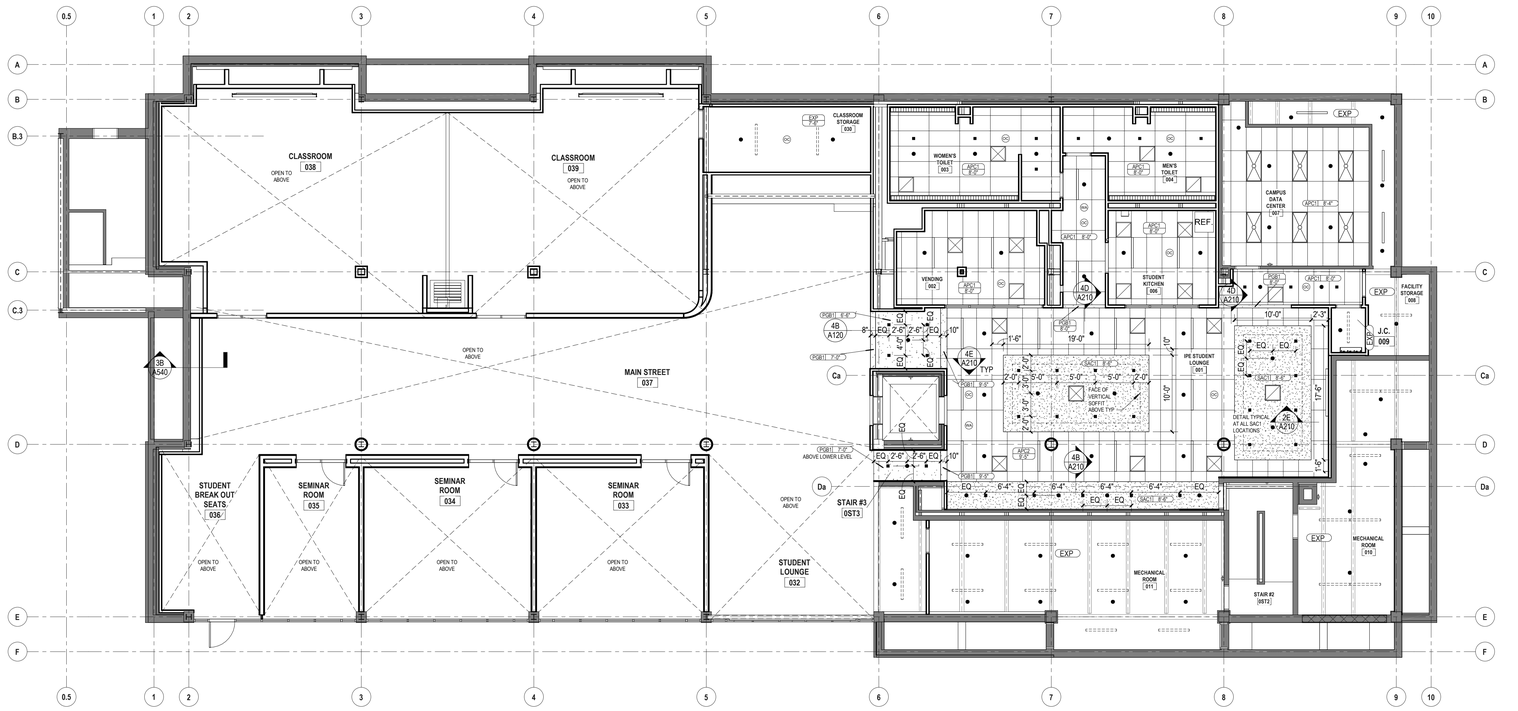
Drawing Number
A140



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



1E BASEMENT/LOWER LEVEL REFLECTED CEILING PLAN
1/8" = 1'-0"

CEILING PLAN GRAPHIC LEGEND

LIGHT FIXTURES

- CONTINUOUS CEILING RECESSED
- 2 ' X 4' CEILING RECESSED
- CEILING RECESSED LINEAR - LENGTH VARIES
- CEILING RECESSED SQUARE
- CEILING SURFACE MOUNT 20" ROUND
- CEILING-MOUNTED PENDANT UTILITY

HVAC FIXTURES AND EQUIPMENT

- 2X2 SUPPLY DIFFUSER
- 2X2 RETURN DIFFUSER
- LINEAR SUPPLY OR RETURN DIFFUSER
- FLUSH MOUNTED CABINET UNIT HEATER
- FLUSH MOUNTED VRF CASSETTE (SIZE VARIES)

OTHER CEILING DEVICES

- VACANCY SENSOR
- OCCUPANCY SENSOR
- WIRELESS ACCESS POINT
- SPEAKER
- LOCATION FOR SIMULATION SYSTEM RELATED CEILING DEVICE
- CB FLUSH CEILING BOX FOR PROJECTOR
- SPRINKLER HEAD LOCATION - SEE FIRE PROTECTION DWGS FOR TYPES

DEVICES ARE SHOWN ON ARCHITECTURAL PLANS FOR COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL DWGS FOR MORE INFORMATION REGARDING CONTRACTOR OR OWNER VENDOR RESPONSIBILITY AS IT VARIES

CEILING PLAN GENERAL NOTES

1. "EXPOSED CONSTRUCTION" OR "EXP. CONST." INDICATES NO CEILING, EXPOSED TO DECK, PTD.

2. CENTER LIGHT FIXTURES AND OTHER DEVICES IN ACOUSTICAL PANEL "PATTERN" UNLESS OTHERWISE INDICATED.

3. CENTER ACOUSTICAL PANELS OR GRID IN SPACES UNLESS OTHERWISE INDICATED.

4. SEE SPECIFICATIONS FOR INFORMATION ON SEISMIC RESTRAINT OF CEILING SYSTEMS.

5. SEE CEILING DETAIL SHEETS FOR CEILING AND SOFFIT DETAILS.

6. SPRINKLER HEAD LOCATIONS ARE SHOWN FOR COORDINATION PURPOSES ONLY. NOT ALL SPRINKLER HEADS ARE SHOWN. FIRE PROTECTION SYSTEM INSTALLER SHALL COORDINATE SPRINKLER HEADS. IN AREAS WITHOUT SUSPENDED CEILINGS, COORDINATE LOCATIONS OF SPRINKLER HEADS WITH HVAC DUCTS, EQUIPMENT, BEAMS, COLUMNS, LIGHTS, AND ANY OTHER OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13. IN AREAS WITH SUSPENDED CEILINGS, COORDINATE SPRINKLER MAINS, RUNS AND SPRINKLER HEAD LOCATIONS WITH OTHER WORK TO INSURE CEILING HEIGHTS, LIGHTING, DIFFUSER AND OTHER CEILING DEVICE LOCATIONS ARE MAINTAINED AS SHOWN OR AS REQUIRED TO COMPLY WITH APPLICABLE CODE REQUIREMENTS. ADVISE ARCHITECT OF ANY CONFLICTS WHICH MUST BE RESOLVED PRIOR TO INSTALLATION.

7. LIGHT FIXTURES, FIRE PROTECTION DEVICES AND DIFFUSERS ARE SHOWN FOR LOCATION AND COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL AND HVAC DWGS. FOR ACTUAL LIGHT FIXTURE, DIFFUSER AND FIRE PROTECTION SCHEDULES.

8. REFER TO ELECTRICAL, HVAC AND FIRE PROTECTION DWGS. FOR LIGHT FIXTURES, DIFFUSERS AND FIRE PROTECTION DEVICES IN UNFINISHED AREAS OR AREAS WITH EXPOSED STRUCTURE.

9. COORDINATE ACCESS PANEL LOCATIONS WITH MECHANICAL TRADES; SUBMIT PROPOSED LOCATIONS TO ARCHITECT FOR APPROVAL. CONTRACTOR TO LOCATE SERVICEABLE MEP AND AV/IT COMPONENTS OUTSIDE OF HARD CEILING AREAS AND INTO ACCESSIBLE CEILING AREAS TO THE GREATEST EXTENT POSSIBLE.

10. AT HEAD CONDITIONS OF ALL EXTERIOR WINDOW SYSTEMS (INSTALLED AS PART OF PREVIOUS PHASE), PROVIDE NEW GYPSUM BOARD SOFFIT SYSTEM AS INDICATED IN DETAILS 2B, 2C & 2D/A210 UNLESS OTHERWISE NOTED.

11. HANGING SYSTEMS FROM OVERHEAD STRUCTURE:
    A. FOR BUILDINGS WHERE THE FLOOR & ROOF CONSTRUCTION CONSISTS OF CAST IN PLACE CONCRETE SLABS/BEAMS, PRECAST CONCRETE SLABS/BEAMS, CONCRETE FILLED METAL DECKS (SUPPORTED BY STRUCTURAL STEEL FRAMING), THE FOLLOWING SYSTEMS CAN BE HUNG:
        a. CEILINGS AND SOFFITS SYSTEMS (INCLUDING HUNG PARTITION SYSTEMS).
        b. MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS AND EQUIPMENT.
        c. FOR ANY HEAVY OR LARGE SYSTEMS OR ITEMS, CONSULT WITH YOUR STRUCTURAL ENGINEER.
    B. FOR BUILDINGS WHERE THE ROOF STRUCTURE IS SIMPLE METAL ROOF DECK (NO CONCRETE FILL), THE FOLLOWING SYSTEMS CAN BE HUNG:
        a. ACOUSTIC CEILING SYSTEMS (ACP TILES, ETC.) WEIGHING LESS THAN 5 LBS/SF AND HUNG AT 4'-0" O.C. BOTH DIRECTIONS.
        b. SINGLE LAYER GYPSUM BOARD CEILING SYSTEMS WEIGHING LESS THAN 5 LBS/SF AND HUNG AT 4'-0" O.C. BOTH DIRECTIONS.
        c. *DO NOT HANG ANY OTHER SYSTEM OR ITEM DIRECTLY FROM PLAIN ROOF STEEL DECKS* (UNLESS STRUCTURAL E.O.R. CONFIRMS THAT DECK HAS BEEN DESIGNED TO SUPPORT THESE HANGING LOADS). IN LOCATIONS WHERE PLAIN ROOF STEEL DECK (NO CONCRETE FILL) IS OVERHEAD, HANG ONLY FROM STRUCTURAL STEEL FRAMING MEMBERS OR PROVIDE SECONDARY STEEL FRAMING MEMBERS (SLOTTED CHANNEL FRAMING, I.E. "UNISTRUT", ETC.) OF ADEQUATE DESIGN (SPANNING BETWEEN BUILDING STRUCTURAL STEEL FRAMING MEMBERS) AS REQUIRED.

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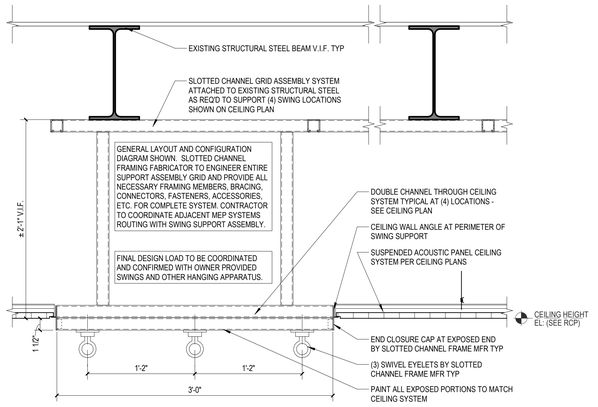
KEYPLAN

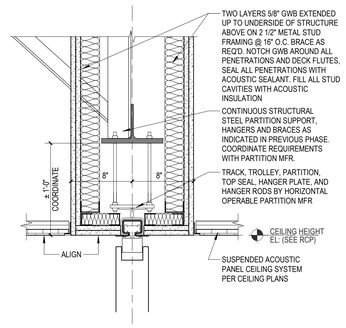
Number	Date	Issued For

BASEMENT/ LOWER LEVEL AND FIRST FLOOR REFLECTED CEILING PLANS

Date 04/07/2022
Scale 1/8" = 1'-0"
Proj. Number 20287.10
Drawing Number A201



3B CEILING DETAIL AT SWING SUPPORT
1 1/2" = 1'-0"



4C CEILING DETAIL - HORIZONTAL OPERABLE PARTITION HEAD
1 1/2" = 1'-0"

CEILING PLAN GRAPHIC LEGEND

LIGHT FIXTURES

- CONTINUOUS CEILING RECESSED
- 2 ' X 4' CEILING RECESSED
- CEILING RECESSED LINEAR - LENGTH VARIES
- CEILING RECESSED SQUARE
- CEILING SURFACE MOUNT 20" ROUND
- CEILING-MOUNTED PENDANT UTILITY

HVAC FIXTURES AND EQUIPMENT

- 2X2 SUPPLY DIFFUSER
- 2X2 RETURN DIFFUSER
- LINEAR SUPPLY OR RETURN DIFFUSER
- FLUSH MOUNTED CABINET UNIT HEATER
- FLUSH MOUNTED VRF CASSETTE (SIZE VARIES)

OTHER CEILING DEVICES

DEVICES ARE SHOWN ON ARCHITECTURAL PLANS FOR COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL DWGS FOR MORE INFORMATION REGARDING CONTRACTOR OR OWNER VENDOR RESPONSIBILITY AS IT VARIES

- VACANCY SENSOR
- OCCUPANCY SENSOR
- WIRELESS ACCESS POINT
- SPEAKER
- LOCATION FOR SIMULATION SYSTEM RELATED CEILING DEVICE
- CB FLUSH CEILING BOX FOR PROJECTOR
- SPRINKLER HEAD LOCATION - SEE FIRE PROTECTION DWGS FOR TYPES

CEILING PLAN GENERAL NOTES

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2. CENTER LIGHT FIXTURES AND OTHER DEVICES IN ACOUSTICAL PANEL "PATTERN" UNLESS OTHERWISE INDICATED.

3. CENTER ACOUSTICAL PANELS OR GRID IN SPACES UNLESS OTHERWISE INDICATED.

4. SEE SPECIFICATIONS FOR INFORMATION ON SEISMIC RESTRAINT OF CEILING SYSTEMS.

5. SEE CEILING DETAIL SHEETS FOR CEILING AND SOFFIT DETAILS.

6. SPRINKLER HEAD LOCATIONS ARE SHOWN FOR COORDINATION PURPOSES ONLY. NOT ALL SPRINKLER HEADS ARE SHOWN. FIRE PROTECTION SYSTEM INSTALLER SHALL COORDINATE SPRINKLER HEADS. IN AREAS WITHOUT SUSPENDED CEILINGS, COORDINATE LOCATIONS OF SPRINKLER HEADS WITH HVAC DUCTS, EQUIPMENT, BEAMS, COLUMNS, LIGHTS, AND ANY OTHER OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13. IN AREAS WITH SUSPENDED CEILINGS, COORDINATE SPRINKLER MAINS, RUNS AND SPRINKLER HEAD LOCATIONS WITH OTHER WORK TO INSURE CEILING HEIGHTS, LIGHTING, DIFFUSER AND OTHER CEILING DEVICE LOCATIONS ARE MAINTAINED AS SHOWN OR AS REQUIRED TO COMPLY WITH APPLICABLE CODE REQUIREMENTS. ADVISE ARCHITECT OF ANY CONFLICTS WHICH MUST BE RESOLVED PRIOR TO INSTALLATION.

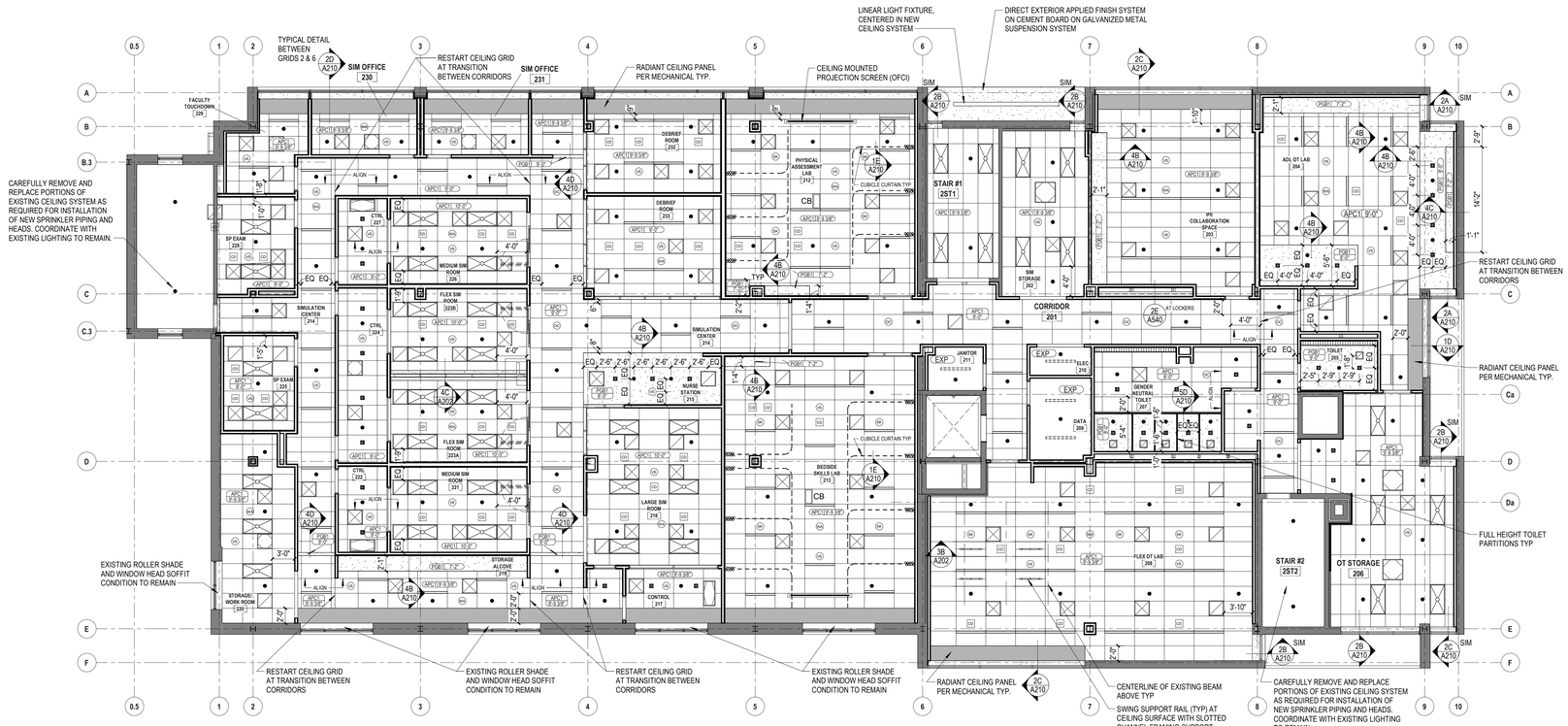
7. LIGHT FIXTURES, FIRE PROTECTION DEVICES AND DIFFUSERS ARE SHOWN FOR LOCATION AND COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL AND HVAC DWGS. FOR ACTUAL LIGHT FIXTURE, DIFFUSER AND FIRE PROTECTION SCHEDULES.

8. REFER TO ELECTRICAL, HVAC AND FIRE PROTECTION DWGS. FOR LIGHT FIXTURES, DIFFUSERS AND FIRE PROTECTION DEVICES IN UNFINISHED AREAS OR AREAS WITH EXPOSED STRUCTURE.

9. COORDINATE ACCESS PANEL LOCATIONS WITH MECHANICAL TRADES; SUBMIT PROPOSED LOCATIONS TO ARCHITECT FOR APPROVAL. CONTRACTOR TO LOCATE SERVICEABLE MEP AND AV/IT COMPONENTS OUTSIDE OF HARD CEILING AREAS AND INTO ACCESSIBLE CEILING AREAS TO THE GREATEST EXTENT POSSIBLE.

10. AT HEAD CONDITIONS OF ALL EXTERIOR WINDOW SYSTEMS (INSTALLED AS PART OF PREVIOUS PHASE), PROVIDE NEW GYPSUM BOARD SOFFIT SYSTEM AS INDICATED IN DETAILS 2B, 2C & 2D/A210 UNLESS OTHERWISE NOTED.

11. HANGING SYSTEMS FROM OVERHEAD STRUCTURE:
    A. FOR BUILDINGS WHERE THE FLOOR & ROOF CONSTRUCTION CONSISTS OF CAST IN PLACE CONCRETE SLABS/BEAMS, PRECAST CONCRETE SLABS/BEAMS, CONCRETE FILLED METAL DECKS (SUPPORTED BY STRUCTURAL STEEL FRAMING), THE FOLLOWING SYSTEMS CAN BE HUNG:
        a. CEILINGS AND SOFFITS SYSTEMS (INCLUDING HUNG PARTITION SYSTEMS).
        b. MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS AND EQUIPMENT.
        c. FOR ANY HEAVY OR LARGE SYSTEMS OR ITEMS, CONSULT WITH YOUR STRUCTURAL ENGINEER.
    B. FOR BUILDINGS WHERE THE ROOF STRUCTURE IS SIMPLE METAL ROOF DECK (NO CONCRETE FILL), THE FOLLOWING SYSTEMS CAN BE HUNG:
        a. ACOUSTIC CEILING SYSTEMS (ACP TILES, ETC.) WEIGHING LESS THAN 5 LBS/SF AND HUNG AT 4'-0" O.C. BOTH DIRECTIONS.
        b. SINGLE LAYER GYPSUM BOARD CEILING SYSTEMS WEIGHING LESS THAN 5 LBS/SF AND HUNG AT 4'-0" O.C. BOTH DIRECTIONS.
        c. *DO NOT HANG ANY OTHER SYSTEM OR ITEM DIRECTLY FROM PLAIN ROOF STEEL DECKS* (UNLESS STRUCTURAL E.O.R. CONFIRMS THAT DECK HAS BEEN DESIGNED TO SUPPORT THESE HANGING LOADS). IN LOCATIONS WHERE PLAIN ROOF STEEL DECK (NO CONCRETE FILL) IS OVERHEAD, HANG ONLY FROM STRUCTURAL STEEL FRAMING MEMBERS OR PROVIDE SECONDARY STEEL FRAMING MEMBERS (SLOTTED CHANNEL FRAMING, I.E. "UNISTRUT", ETC.) OF ADEQUATE DESIGN (SPANNING BETWEEN BUILDING STRUCTURAL STEEL FRAMING MEMBERS) AS REQUIRED.



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

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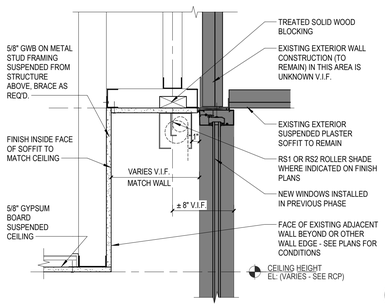
KEYPLAN

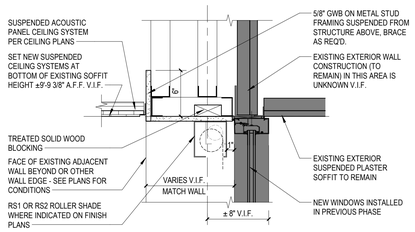
Number	Date	Issued For

SECOND FLOOR REFLECTED CEILING PLAN

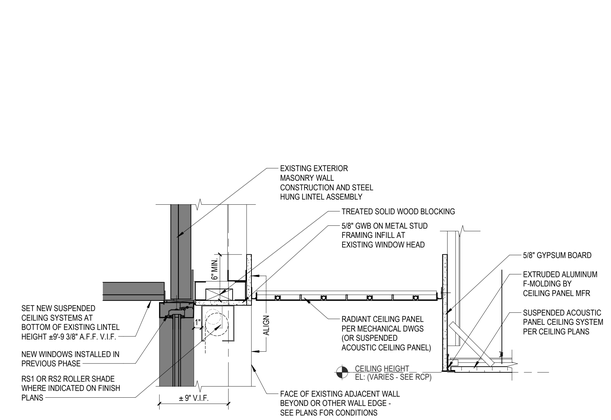
Date 04/07/2022
Scale As indicated
Proj. Number 20287.10
Drawing Number A202



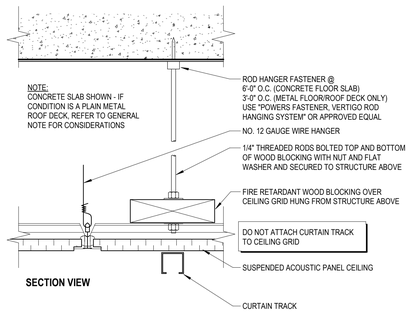
2A CEILING DETAIL - EXISTING WINDOW HEAD AT EXISTING OVERHANG - LOW CEILING INSIDE
1 1/2" = 1'-0"



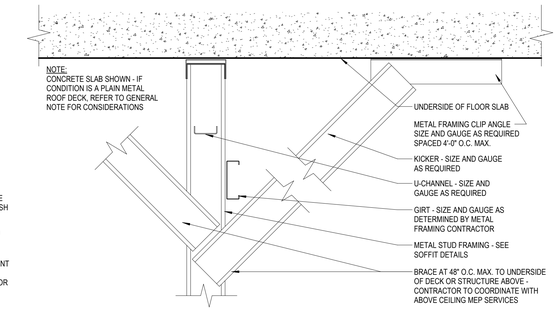
2B CEILING DETAIL - EXISTING WINDOW HEAD AT EXISTING OVERHANG
1 1/2" = 1'-0"



1D CEILING DETAIL - RADIANT PANEL WITH LOW CEILING INSIDE
1 1/2" = 1'-0"



1E CEILING DETAIL AT CURTAIN TRACK
3" = 1'-0"



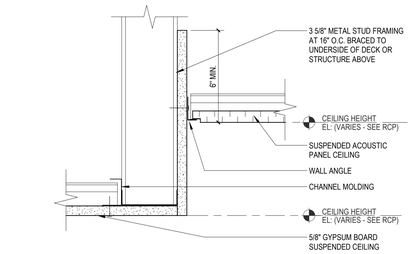
3A TYPICAL SOFFIT BRACING DETAIL
3" = 1'-0"

GENERAL NOTE APPLICABLE TO ALL CEILING DETAILS

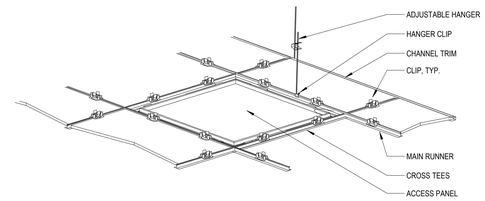
A. FOR PORTIONS OF EXISTING BUILDING WHERE THE FLOOR & ROOF CONSTRUCTION CONSISTS OF CAST IN PLACE CONCRETE SLABS/BEAMS, PRECAST CONCRETE SLABS/BEAMS, CONCRETE FILLED METAL DECKS (SUPPORTED BY STRUCTURAL STEEL FRAMING), THE FOLLOWING SYSTEMS CAN BE HUNG:
   a. CEILINGS AND SOFFITS SYSTEMS (INCLUDING HUNG PARTITION SYSTEMS).
   b. MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS AND EQUIPMENT.
   c. FOR ANY HEAVY OR LARGE SYSTEMS OR ITEMS, CONSULT WITH YOUR STRUCTURAL ENGINEER.

B. FOR PORTIONS OF EXISTING BUILDINGS WHERE THE ROOF STRUCTURE IS SIMPLE METAL ROOF DECK (NO CONCRETE FILL), THE FOLLOWING SYSTEMS CAN BE HUNG:
   a. ACOUSTIC CEILING SYSTEMS (ACP TILES, ETC.) WEIGHING LESS THAN 5 LBS/SF AND HUNG AT 4'-0" O.C. BOTH DIRECTIONS.
   b. SINGLE LAYER GYPSUM BOARD CEILING SYSTEMS WEIGHING LESS THAN 5 LBS/SF AND HUNG AT 4'-0" O.C. BOTH DIRECTIONS.
   c. *DO NOT HANG ANY SYSTEM OR ITEM DIRECTLY FROM PLAIN ROOF STEEL DECKS* IN LOCATIONS WHERE PLAIN ROOF STEEL DECK (NO CONCRETE FILL) IS OVERHEAD. HANG ONLY FROM STRUCTURAL STEEL FRAMING MEMBERS OR PROVIDE SECONDARY STEEL FRAMING MEMBERS (SLOTTED CHANNEL FRAMING, I.E. "UNISTRUT", ETC.) OF ADEQUATE DESIGN (SPANNING BETWEEN BUILDING STRUCTURAL STEEL FRAMING MEMBERS) AS REQUIRED.

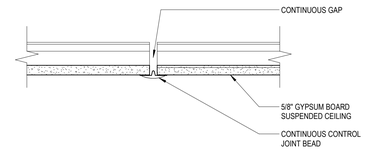
C. NOT ALL DETAILS ON THIS SHEET ARE REFERENCED TO SPECIFIC LOCATIONS. DETAILS NOT REFERENCED ON REFLECTED CEILING PLANS ARE INTENDED TO BE GENERAL AND APPLY AT CONDITIONS THAT MAY BE DETERMINED BY CONTRACTORS, I.E. - LOCATIONS OF ACCESS PANELS OR GYPSUM BOARD CEILING CONTROL JOINTS WHERE SPECIFIED CONDITIONS ARE MET.



4B SOFFIT DETAIL - ACOUSTIC PANEL CEILING TO GYPSUM BOARD AT CEILING HEIGHT TRANSITION
3" = 1'-0"

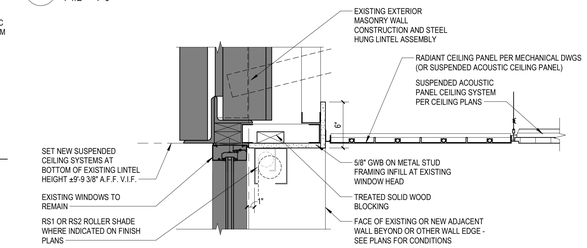


5A CEILING ACCESS PANEL DIAGRAM
3" = 1'-0"

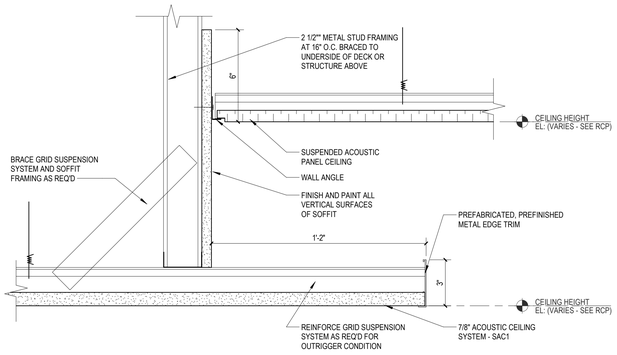


5B CEILING DETAIL AT CONTROL JOINT IN GYPSUM BOARD CEILING
3" = 1'-0"

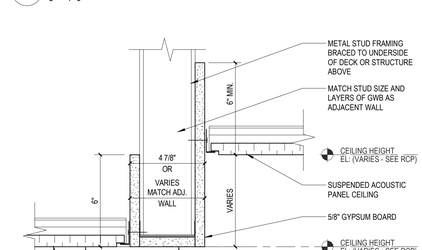
2C CEILING DETAIL - RADIANT PANEL AT EXISTING FLUSH WINDOW HEAD
1 1/2" = 1'-0"



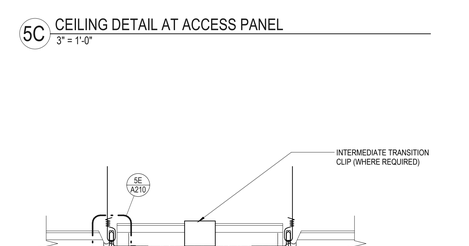
2D CEILING DETAIL - RADIANT PANEL AT EXISTING RECESSED WINDOW HEAD
1 1/2" = 1'-0"



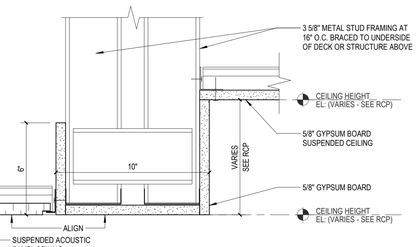
2E SOFFIT DETAIL - ACOUSTIC PANEL AT SAC STEP EDGE
3" = 1'-0"



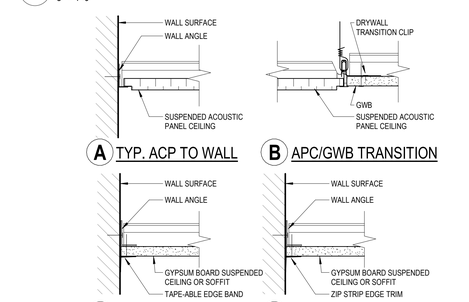
4C SOFFIT DETAIL AT GYPSUM BOARD CEILING HEIGHT TRANSITION
3" = 1'-0"



5C CEILING DETAIL AT ACCESS PANEL
3" = 1'-0"



4D SOFFIT DETAIL - GYPSUM SOFFIT AT ACOUSTIC PANEL CEILING HEIGHT TRANSITION
3" = 1'-0"



4E SOFFIT DETAIL - GYPSUM SOFFIT AT GYPSUM CEILING HEIGHT TRANSITION
3" = 1'-0"

5E TYPICAL CEILING TRANSITION DETAILS
3" = 1'-0"

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Date: 04/07/2022
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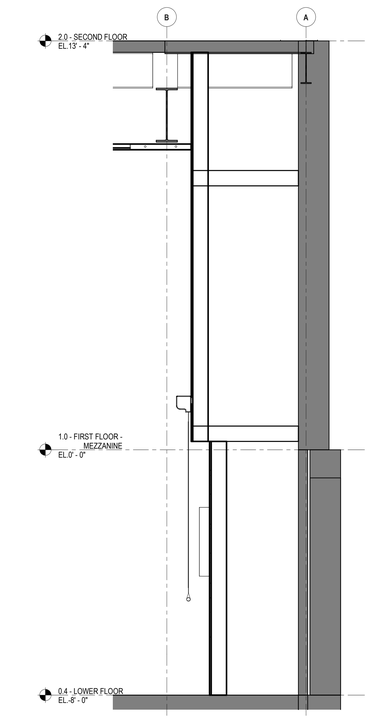
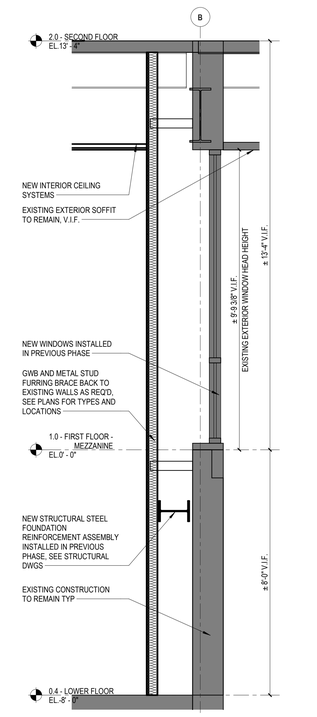
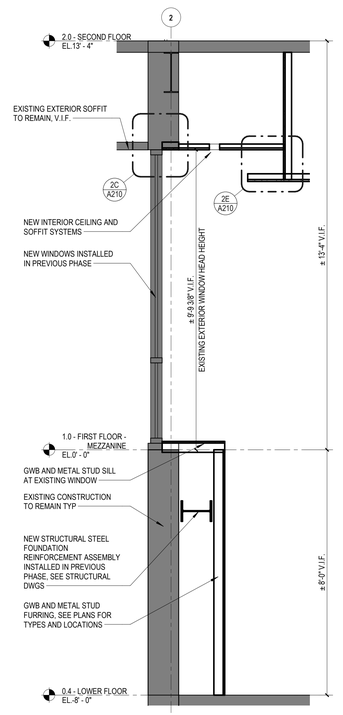


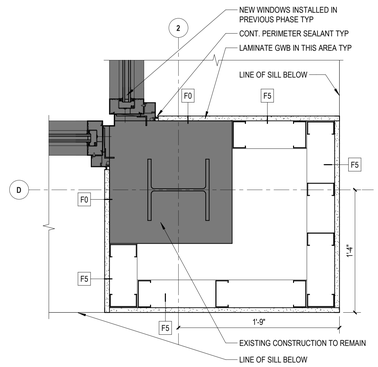
1 Section 3
1/2" = 1'-0"



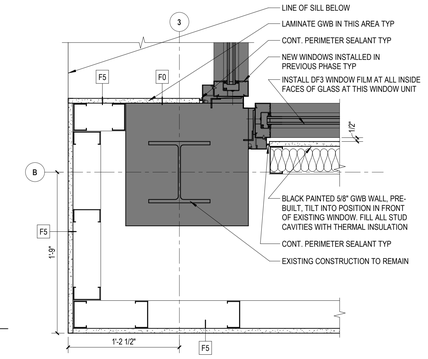
6 Section 25
1/2" = 1'-0"



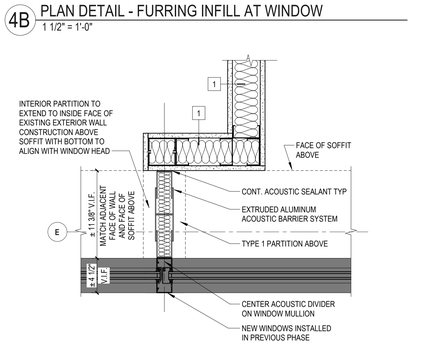
5 Section 24
1/2" = 1'-0"



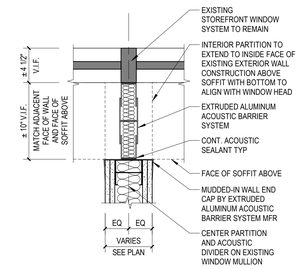
4A PLAN DETAIL - DEEP FURRING AT EXISTING WINDOW
1 1/2" = 1'-0"



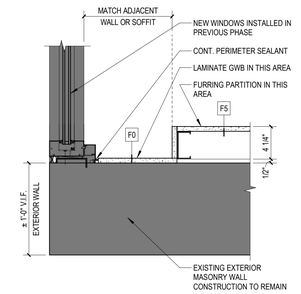
4B PLAN DETAIL - FURRING INFILL AT WINDOW
1 1/2" = 1'-0"



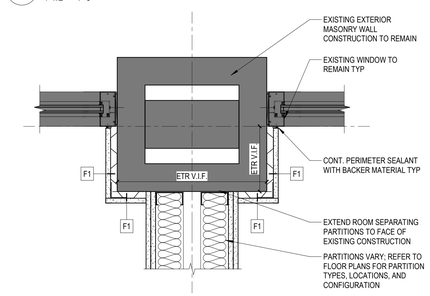
4D PLAN DETAIL - ACOUSTIC DIVIDER AT HORIZONTAL WALL
1 1/2" = 1'-0"



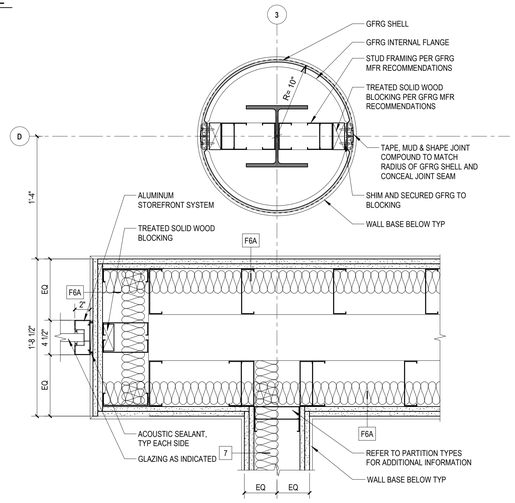
5A PLAN DETAIL - ACOUSTIC DIVIDER AT WINDOW MULLION
1 1/2" = 1'-0"



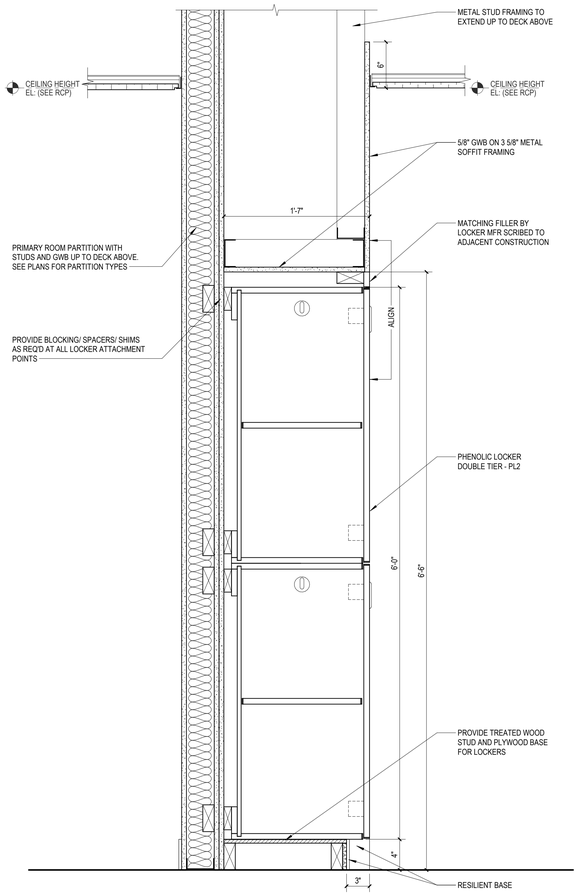
5B PLAN DETAIL - FURRING AT EXISTING WINDOW JAMB
1 1/2" = 1'-0"



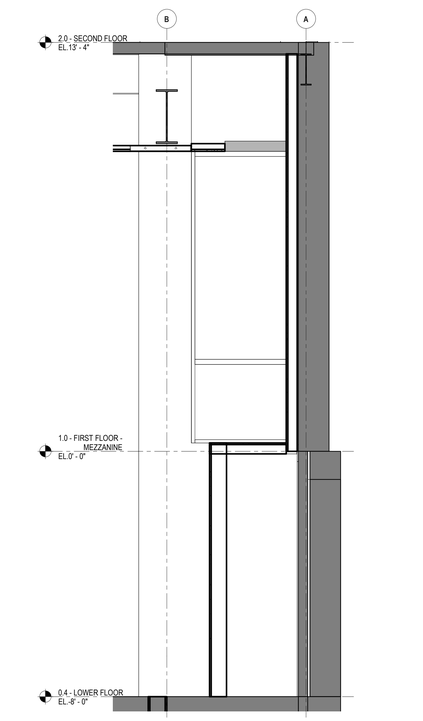
5C PLAN DETAIL - FURRING AT EXISTING COLUMN ENCLOSURE
1 1/2" = 1'-0"



5E PLAN DETAIL - GFRG ENCLOSURE AND ADJACENT DEEP WALL CONDITION
1 1/2" = 1'-0"



2E TYPICAL PHENOLIC LOCKER SECTION
1 1/2" = 1'-0"



2 Section 5
1/2" = 1'-0"

3"
1 1/2"
1"
3/4"
1/2"
3/8"
1/4"
3/16"
1/16"
1/8"
3/32"

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INTERIOR DETAILS

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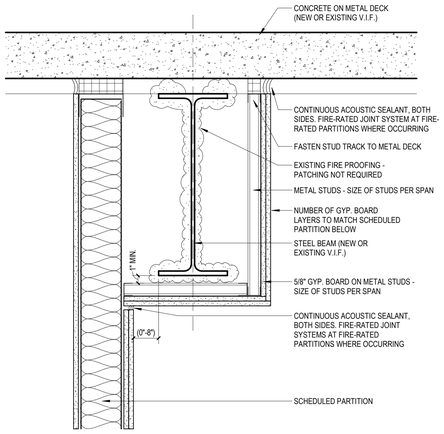
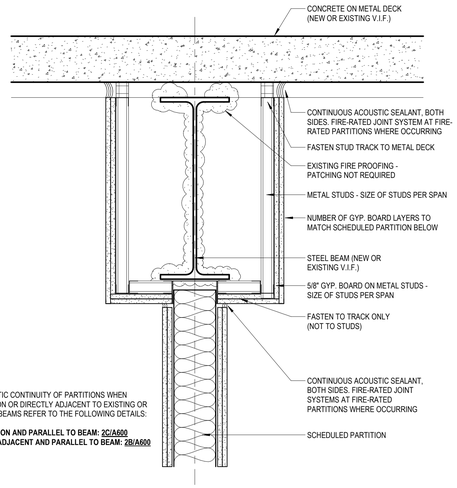
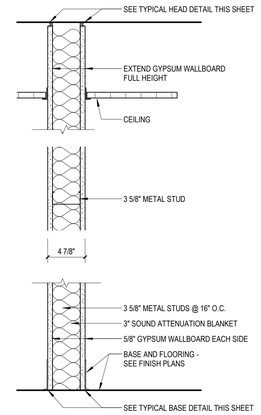


2B FULL HEIGHT PARTITION - PARALLEL TO BEAM-ASYMMETRICAL
1 1/2" = 1'-0"

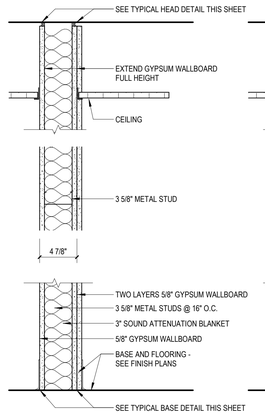


2C FULL HEIGHT PARTITION - PARALLEL TO BEAM
1 1/2" = 1'-0"



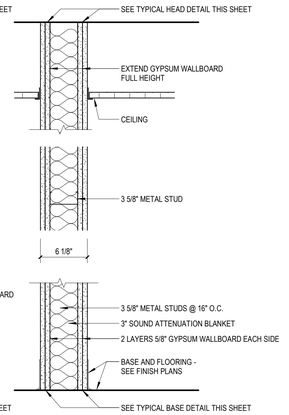
1 HOUR RATED (UL DESIGN NO. U419 WHERE INDICATED ON LS-SERIES DWGS)

1 AS SHOWN (STC 44)



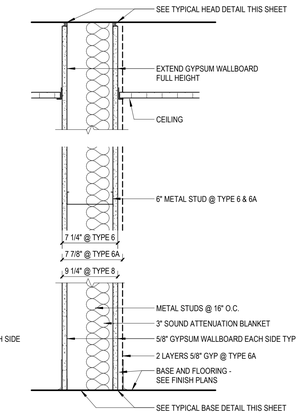
1 HOUR RATED (UL DESIGN NO. U419 WHERE INDICATED ON LS-SERIES DWGS)

3 AS SHOWN (STC 46)



2 HOUR RATED (UL DESIGN NO. U419 WHERE INDICATED ON LS-SERIES DWGS)

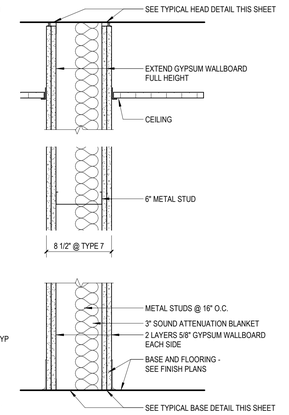
2 AS SHOWN (STC 50)



1 HOUR RATED (UL DESIGN NO. U419 WHERE INDICATED ON LS-SERIES DWGS)

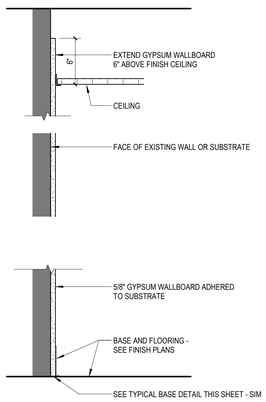
6 AS SHOWN (STC 47)

6A 3 TOTAL LAYERS GYP (STC 50)



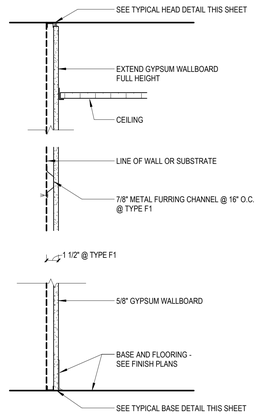
2 HOUR RATED (UL DESIGN NO. U419 WHERE INDICATED ON LS-SERIES DWGS)

7 AS SHOWN (STC 53)



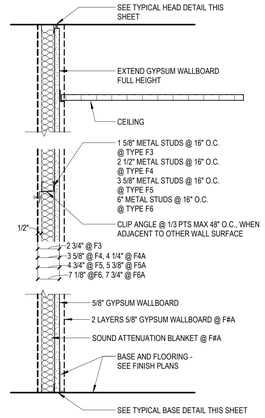
LAMINATED GYPSUM WALLBOARD

F0 AS SHOWN



FURRED WALL

F1 AS SHOWN - 7/8" METAL FURRING CHANNELS



FURRED WALL

F3 AS SHOWN - 1 5/8" METAL STUDS

F4 F4A AS SHOWN - 2 1/2" METAL STUDS

F5 F5A AS SHOWN - 3 5/8" METAL STUDS

F6 F6A AS SHOWN - 6" METAL STUDS

FRAMED PARTITION NOTES

1. PARTITION TYPES ARE INDICATED ON FLOOR PLANS AS: 1 PARTITION TYPE

2. REFER TO FIRE SAFETY PLANS FOR LOCATIONS OF FIRE BARRIERS, FIRE WALLS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS. ALL FIRE AND / OR SMOKE RATED PARTITIONS, BARRIERS AND WALLS SHALL BE LABELED IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILINGS OR ATTIC SPACES WITH PAINTED SIGNAGE 15 FEET FROM THE ENDS OF THE WALLS AND AT A SPACING NOT TO EXCEED 30 FEET BETWEEN END MARKINGS.

3. PROVIDE MOISTURE RESISTANT G.W.B. AT ALL TOILET ROOMS, SHOWERS, CUSTODIAL CLOSETS, SOILED UTILITY ROOMS, HOUSEKEEPING CLOSETS, MECHANICAL EQUIPMENT ROOMS AND WITHIN 10 FT OF ANY PLUMBING FIXTURE LOCATION UNLESS OTHERWISE NOTED. (EXCEPT AT TILED WALL FINISHES WHERE NOTE #4 BELOW APPLIES)

4. PROVIDE SUITABLE TILE BACKING BOARD (TYPE X @ RATED WALLS) OVER MINIMUM 0.0312" THICK METAL STUD FRAMING BEHIND CERAMIC, PORCELAIN AND STONE TILE WALL FINISH - REFER TO FINISH SCHEDULE.

5. MATERIALS AND CONSTRUCTION OF FIRE-RATED PARTITIONS, INCLUDING TAPING AND FINISHING OF GYPSUM BOARD FOR FULL HEIGHT, SHALL BE IN ACCORDANCE WITH DESIGNATED FIRE TEST AND MANUFACTURER'S DIRECTIONS TO ACHIEVE FIRE RESISTANCE RATING INDICATED. SEAL PERIMETERS AND ALL PENETRATIONS THROUGH FIRE-RATED PARTITIONS WITH SPECIFIED FIRE RESISTANT RATED MATERIALS. REFER TO SPECIFICATIONS FOR FIRESTOPPING SYSTEM REQUIREMENTS.

6. ALL PARTITIONS SHALL BE SEALED AIRTIGHT FOR FULL HEIGHT (UNLESS NOTED OTHERWISE) INCLUDING PERIMETER & ALL PENETRATIONS. TAPE AT BOTH FACES & FINISH ALL GYPSUM BOARD JOINTS & FASTENERS.

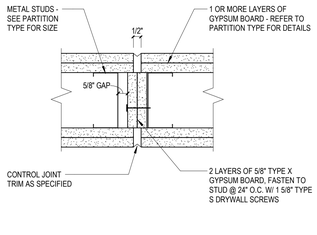
7. SEE DOOR AND FRAME DETAILS FOR TYPICAL NOTES AND DETAILS ON FRAMING AND ANCHORING REQUIREMENTS.

8. PROVIDE CONTROL JOINTS AT 30'-0" O.C. IN ALL PARTITIONS. REVIEW LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE RATED CONTROL JOINTS IN ALL RATED PARTITIONS. SEE TYPICAL CONTROL JOINT DETAIL THIS SHEET.

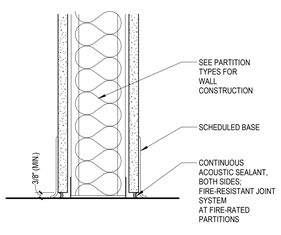
9. COORDINATE LOCATIONS FOR WALL-MOUNTED DEVICES (ELECTRICAL, AV/IT, SECURITY, FIRE ALARM, ETC.) - PROVIDE ADDITIONAL FRAMING AND/OR BLOCKING AS REQUIRED TO LOCATE DEVICES AS SPECIFIED IN ARCHITECTURAL AND/OR MEP DRAWINGS.

10. SEE SHEET A601 FOR TYPICAL LIGHT GAGE STUD FRAMING DETAILS AND BLOCKING DETAILS

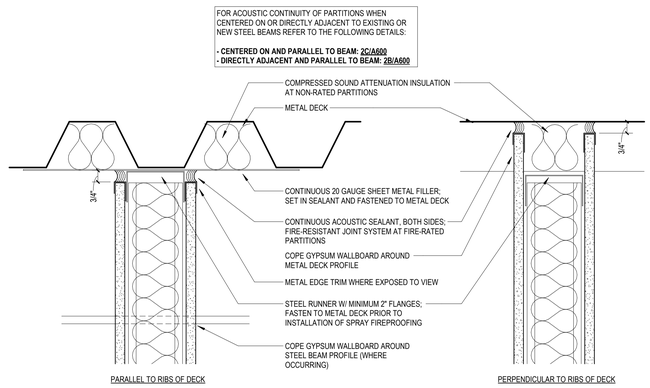
3D TYPICAL FRAMED PARTITION TYPES
1 1/2" = 1'-0"



2E TYP CONTROL JOINT @ METAL STUD PARTITIONS
3" = 1'-0"



3E TYP BASE AT METAL STUD PARTITIONS
3" = 1'-0"



NOTE: FASTEN STEEL RUNNER TO METAL DECK; FRICTION FIT METAL STUDS TO RUNNER AND FASTEN GYPSUM WALLBOARD TO STUDS (DO NOT FASTEN TO RUNNER); MAINTAIN GAP AS INDICATED BETWEEN METAL DECK AND METAL STUD / GYPSUM WALLBOARD TO ACCOMMODATE DEFLECTION OF STRUCTURE

4E TYPICAL HEADS AT METAL STUD PARTITIONS
3" = 1'-0"

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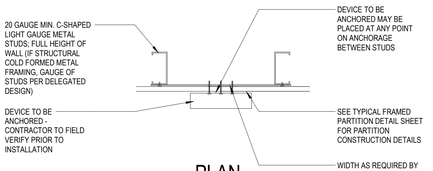
KEYPLAN

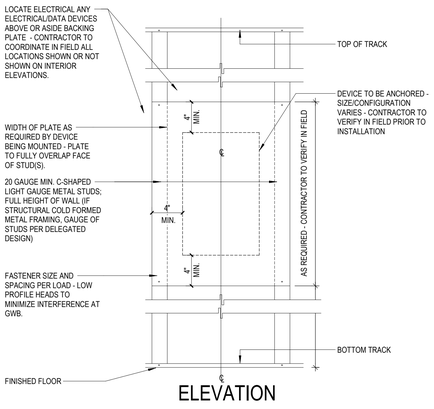
Number	Date	Issued For

TYPICAL FRAMED PARTITION TYPES AND DETAILS

Date 04/07/2022
Scale As indicated
Proj. Number 20287.10

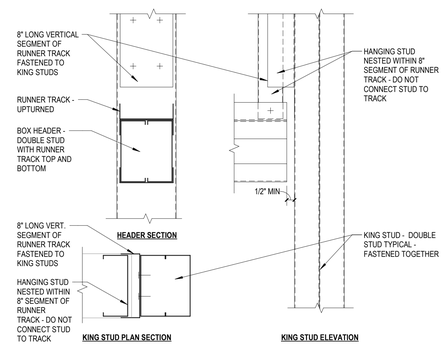
Drawing Number A600



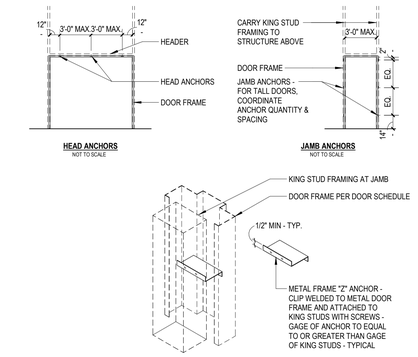


NOTE: SEE ALSO TYPICAL METAL BLOCKING/BACKING PLATES DETAIL

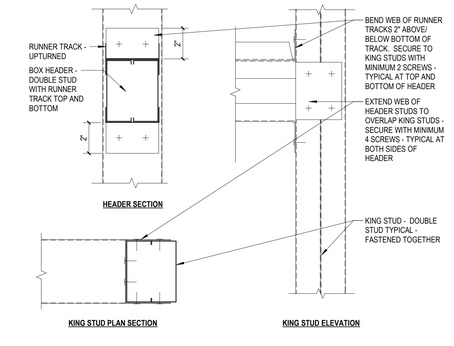
2B TYPICAL METAL BLOCKING FOR WALL MOUNTED DEVICES
1 1/2" = 1'-0"



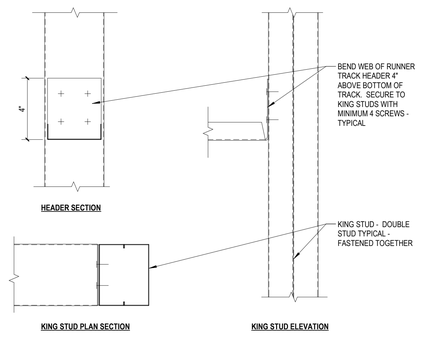
3A TYPICAL HEADER - OPENINGS GREATER THAN 8'-0" WIDE
3" = 1'-0"



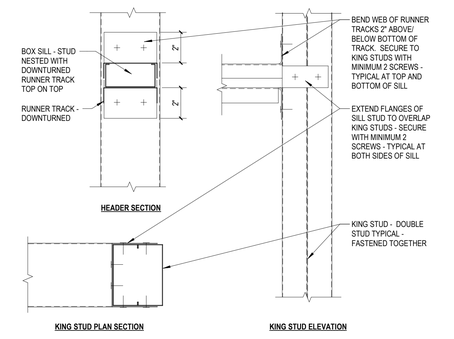
3B TYPICAL PARTITION DOOR FRAME ANCHORS
1 1/2" = 1'-0"



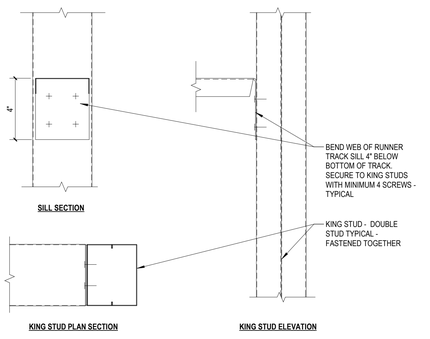
4A TYPICAL HEADER - OPENINGS BETWEEN 4'-0" & 8'-0" WIDE
3" = 1'-0"



5A TYPICAL HEADER - OPENINGS LESS THAN 4'-0" WIDE
3" = 1'-0"

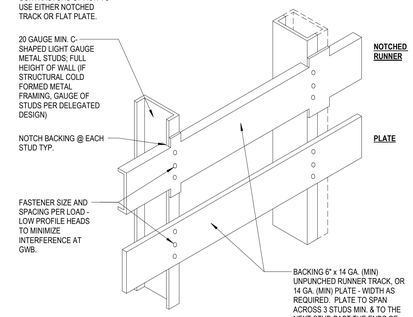


4B TYPICAL SILL- OPENINGS GREATER THAN 4'-0" WIDE
3" = 1'-0"



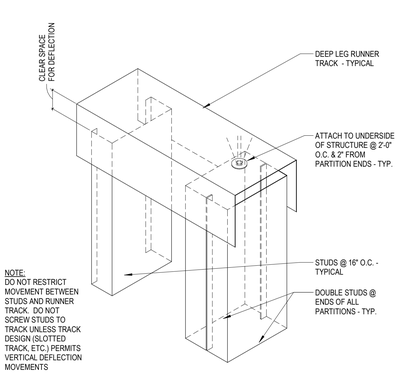
5B TYPICAL SILL- OPENINGS LESS THAN 4'-0" WIDE
3" = 1'-0"

NOTE:
CONTRACTORS OPTION TO USE EITHER NOTCHED TRACK OR FLAT PLATE.



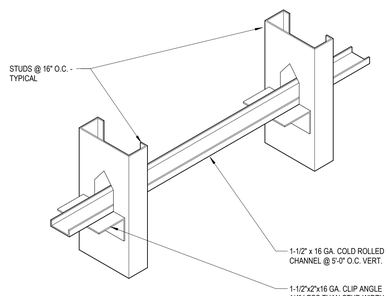
NOTE: SEE ALSO TYPICAL METAL BLOCKING FOR WALL MOUNTED DEVICES DETAIL

1D TYPICAL METAL BLOCKING/BACKING PLATES
3" = 1'-0"

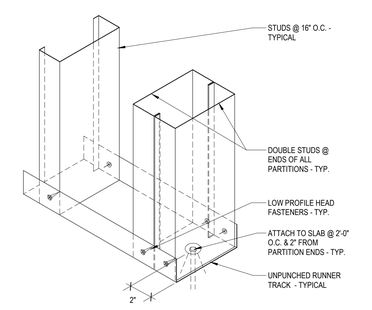


NOTE:
DO NOT RESTRICT MOVEMENT BETWEEN STUDS AND RUNNER TRACK. DO NOT SCREW STUDS TO TRACK UNLESS TRACK DESIGN (SLOTTED TRACK, ETC.) PERMITS VERTICAL DEFLECTION MOVEMENTS

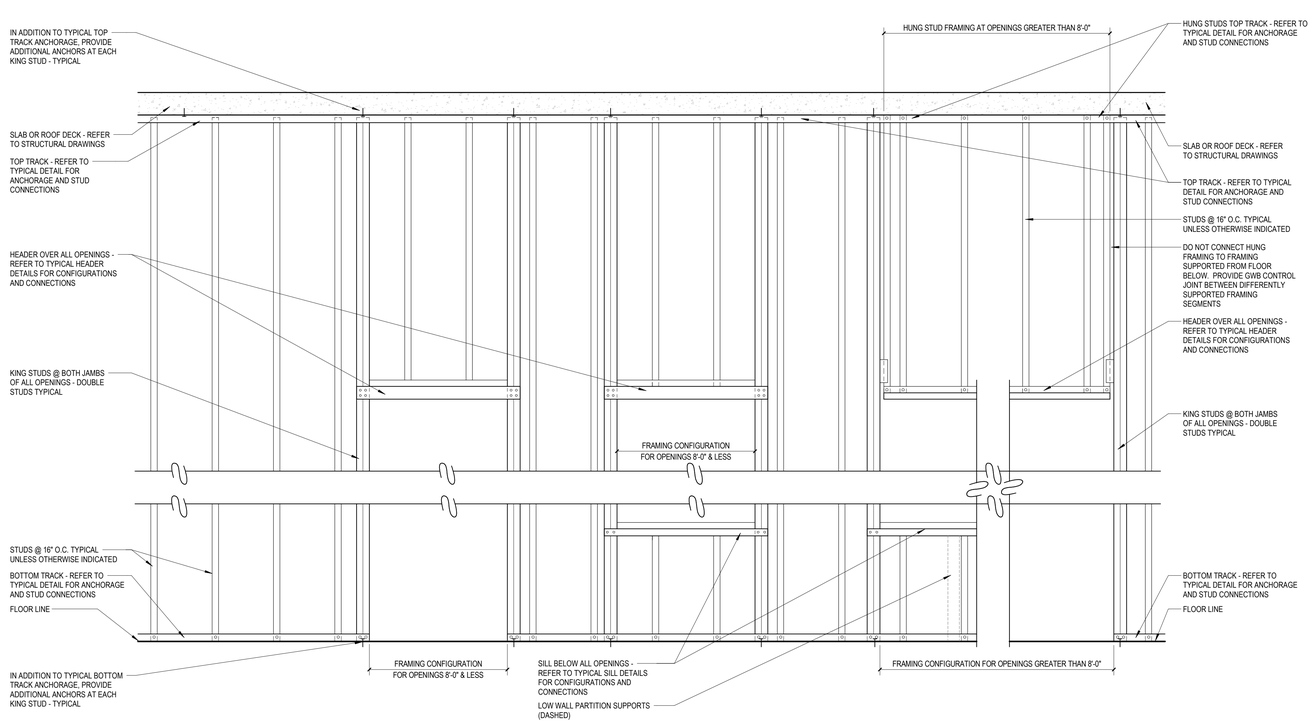
2D TYPICAL TOP TRACK STUD CONNECTIONS
3" = 1'-0"



1E TYPICAL STUD BRIDGING
3" = 1'-0"



2E TYPICAL BOTTOM TRACK STUD CONNECTIONS
3" = 1'-0"



NOTE:
COORDINATE LOCATIONS FOR WALL-MOUNTED DEVICES (ELECTRICAL, AV/IT, SECURITY, FIRE ALARM, ETC.) - PROVIDE ADDITIONAL FRAMING AS REQUIRED TO LOCATE DEVICES AS SPECIFIED IN ARCHITECTURAL AND/OR MEP DRAWINGS.

3E TYPICAL METAL STUD FRAMING ELEVATION
3/4" = 1'-0"

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KEYPLAN

Number	Date	Issued For

METAL STUD PARTITION FRAMING - TYPICAL DETAILS

Date	Drawing Number
04/07/2022	A601
Scale: As indicated	
Proj. Number: 20287.10	

DOOR TYPE DESIGNATIONS

NL1
- NL — DOOR TYPE SUB-LETTER (USED FOR VARIATIONS OF THE SAME TYPE)
- 1 — DOOR TYPE

F	FLUSH
FG	FULL GLASS
G	HALF GLASS
GL	HALF GLASS WITH LOUVER
N	NARROW LITE
NS	NARROW STILE (ALUMINUM)
NSR	NARROW STILE (ALUMINUM) WITH MIDDLE RAIL
MS	MEDIUM STILE (ALUMINUM)
MSR	MEDIUM STILE (ALUMINUM) WITH MIDDLE RAIL
WS	WIDE STILE (ALUMINUM)
WSR	WIDE STILE (ALUMINUM) WITH MIDDLE RAIL
GA	GLASS DOOR WITH CONTINUOUS BOTTOM RAIL & TOP PATCH HARDWARE

FRAME TYPE DESIGNATIONS

AS2A
- A — FRAME TYPE SUB-LETTER (USED FOR VARIATIONS OF THE SAME TYPE)
- S — NUMBER OF OPENINGS OR LITES
- 2 — FRAME TYPE

A	DOOR OPENING
AF	DOOR OPENING WITH FULL HEIGHT SIDELITE

DOOR / FRAME MATERIAL

AL	ALUMINUM
EX	EXISTING TO REMAIN
GL	GLASS
HM	HOLLOW METAL
WD	WOOD, WOOD VENEER

GLASS MATERIAL

FR	FIRE PROTECTION RATED GLASS
LS1	LAMINATED SAFETY GLASS - 9/16"
LS2	LAMINATED SAFETY GLASS - 9/16" (STAIR)
M1	LAMINATED MIRROR GLASS - 9/16"
TS1	TEMPERED SAFETY GLASS - 1/4"

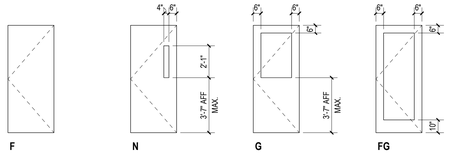
GENERAL DOOR NOTES

1. ALL DOORS ARE 1 3/4" THICKNESS, UNLESS OTHERWISE NOTED.
2. ALL WOOD DOORS ARE SOLID CORE UNLESS OTHERWISE INDICATED EXCEPT ALL BI-FOLD AND POCKET DOORS ARE HOLLOW CORE UNLESS OTHERWISE INDICATED.
3. ALL INTERIOR GLASS IS 1/4" AND ALL INSULATED GLASS IS 1" UNLESS OTHERWISE INDICATED.
4. ALL EXTERIOR HOLLOW METAL DOORS ARE INSULATED.
5. NOT USED
6. REFER TO TYPICAL PARTITION DETAILS, DRAWING A600 FOR FRAME THROAT REQUIREMENTS UNLESS OTHERWISE INDICATED ON DOOR SCHEDULE.
7. REFER TO DOOR TYPES, FRAME TYPES AND ALUMINUM STOREFRONT FRAMES, DRAWING A610.
8. REFER TO DOOR DETAILS, DRAWING A611 FOR TYPICAL JAMB DETAILS. HEADS ARE SIMILAR TO JAMBS SHOWN UNLESS OTHERWISE INDICATED.
9. ALL DOORS TO HAVE STANDARD 5/16" UNDERCUT UNLESS OTHERWISE INDICATED OR REQUIRED TO RECEIVE SCHEDULED THRESHOLD, OR GASKET.
10. REFER TO FINISH PLAN DRAWING A902 FOR FLOOR TRANSITION DETAILS AT DOORS.
11. 20, 45, 60, 90, ETC. INDICATES FIRE RATING IN MINUTES.
12. A PREFIX OF "E" MEANS EXISTING DOOR OR FRAME BEING REUSED IN PLACE. A PREFIX OF "R" MEANS AN EXISTING FRAME BEING RELOCATED.

REMARKS NOTATION

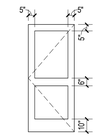
AUTOMATIC	PUSH PLATE OPERATED AUTOMATIC DOOR
MAG	MAGNETIC HOLD OPEN
W-STRIP	WEATHERSTRIP / LIGHT SEAL
CR	CARD READER
ARMOR	STAINLESS STEEL ARMOR PLATE ON PUSH SIDE OF DOOR, 36" HIGH
NOTE A:	NEW DOOR AND HARDWARE IN EXISTING FRAME TO REMAIN V.I.F.. MODIFY AND PATCH/ REPAIR EXISTING FRAME AS REQUIRED TO ACCOMMODATE NEW HARDWARE. FIELD VERIFY FRAME OPENING SIZE AND FRAME CONATION TO DETERMINE EXTENT OF WORK.
NOTE B:	REFER TO DRAWING A610 FOR ALUMINUM FRAME ELEVATIONS AND DETAIL REFERENCES. ALUMINUM DOOR MANUFACTURER SHALL VERIFY DOOR DIMENSIONS BASED UPON APPROVED SYSTEM STANDARDS.
NOTE C:	EXIT ONLY DOOR, PROVIDE CLOSER, W-STRIP, ALARMED PANIC DEVICE. NO EXTERIOR TRIM.
NOTE D:	PROVIDE HARDWARE FOR DOOR INDICATED IN PREVIOUS PHASE. COORDINATE ALL HARDWARE REQUIREMENTS WITH DOOR SUPPLIER.
NOTE E:	MANUAL SLIDING ICU DOOR, OVERALL FRAME WIDTH = 84", OVERALL FRAME HEIGHT = 86", SINGLE SLIDE, TRACKLESS, NARROW STILE, FULL BREAKOUT
NOTE F:	PROVIDE FULL PERIMETER ACOUSTIC GASKETING; JAMBS AND HEAD (SIMILAR TO PEMKO 312CR) AND AUTOMATIC DOOR BOTTOM (SIMILAR TO PEMKO STC411 AUTOMATIC DOOR BOTTOM)

WOOD AND HOLLOW METAL DOORS



F N G FG

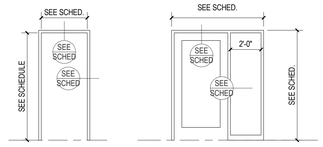
ALUMINUM DOORS



WSR

FRAMES

SEE DOOR SCHEDULE ON SHEET A610 FOR DOOR OPENING SIZES AND HEAD / JAMB DETAIL DESIGNATIONS

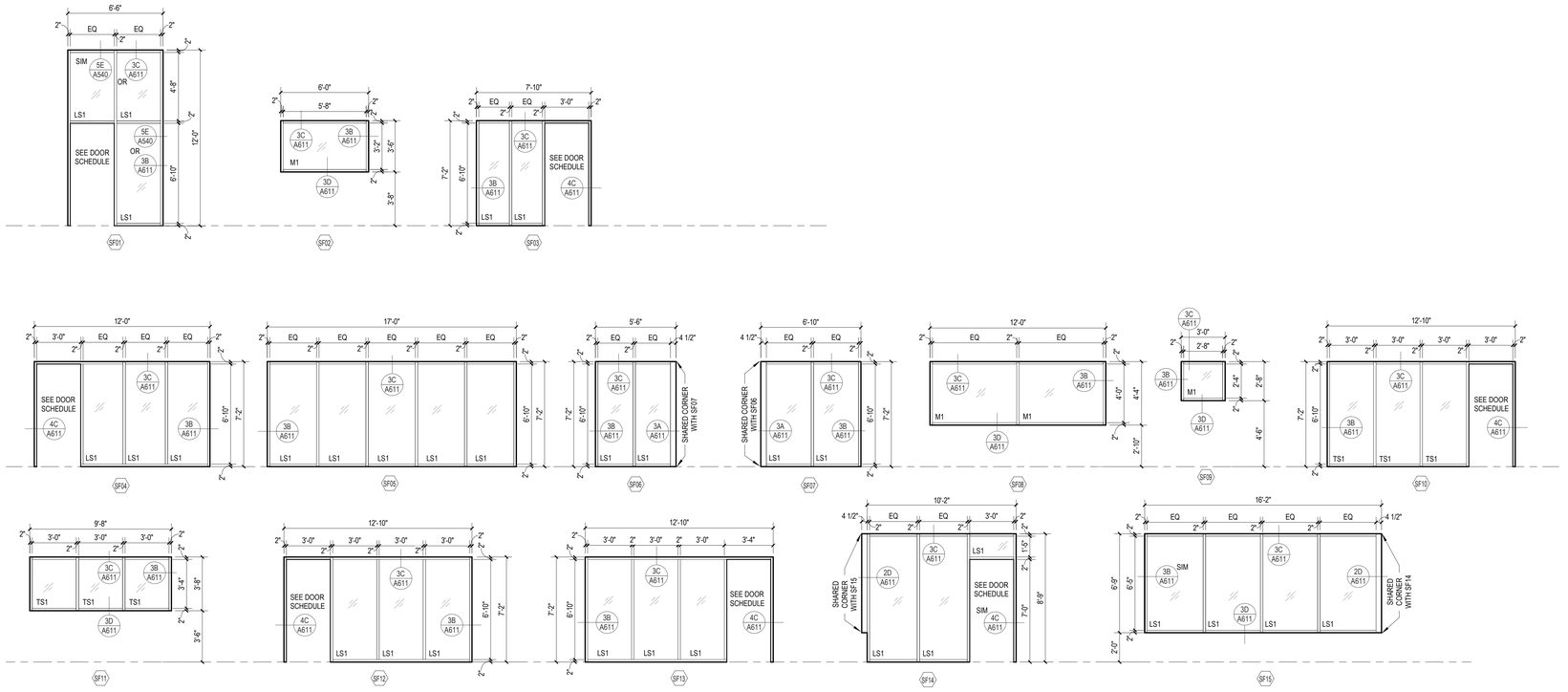


A SINGLE OR DOUBLE OPENING

AF1 SINGLE OR DOUBLE OPENING

ALUMINUM STOREFRONT FRAMES

SEE DOOR SCHEDULE ON SHEET A610 FOR DOOR OPENING SIZES AND HEAD / JAMB DETAIL DESIGNATIONS. FRAME TYPE ELEVATIONS SHOW GLASS OPENING DIMENSIONS AND INTERMEDIATE MULLION WIDTHS ONLY;



DOOR AND FRAME SCHEDULE

Bldg	Room No.	Opng	DOOR: Opening Size Width A	Width B	Height	Thk	Type	Material	FRAME: Frame Type	Material	DETAIL: Jamb	Head	Sill	Glazing	Hardware Set	Comments	Rev No.
0.0 - BASEMENT																	
E	0ST2	A	3'-0"		6'-8"	1 3/4"	N	WD	EX	EX	--	--	--	FR	30.0	60 MIN RATING, NOTE A & F	
E	0ST2	B	3'-0"		6'-8"	1 3/4"	F	WD	EX	EX	--	--	--	--	27.0	60 MIN RATING, NOTE A & F	
	002		3'-0"		7'-0"	1 3/4"	FG	WD	SF10	AL	--	--		TS1	6.0	CR, NOTE B	
	003		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	14.0		
	004		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	14.0		
E	007		3'-0"		7'-0"	1 3/4"	F	WD	EX	EX	--	--	--	--	29.0	CR, NOTE A & F	
	008		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	16.0		
	009		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	21.0		
E	010	A	3'-0"		6'-8"	1 3/4"	F	WD	EX	EX	--	--	--	--	27.0	60 MIN RATING, NOTE A & F	
E	010	B	3'-0"		7'-0"	1 3/4"	F	HM	EX	EX	--	--	--	--	28.0	W-STRIP, NOTE A	
E	011	A	3'-0"		7'-0"	1 3/4"	F	HM	EX	EX	--	--	--	--	28.0	W-STRIP, NOTE A	
E	011	B	3'-0"		7'-0"	1 3/4"	F	HM	EX	EX	--	--	--	--	28.0	W-STRIP, NOTE A	
	012		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	16.0	45 MIN RATING	
0.4 - LOWER FLOOR																	
	030		3'-6"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	18.0	CR, 45 MIN RATING	
	033		3'-0"		7'-0"	1 3/4"	FG	WD	SF01	AL	--	--		LS1	10.0	NOTE B & F	
	034		3'-0"		7'-0"	1 3/4"	FG	WD	SF01	AL	--	--		LS1	10.0	NOTE B & F	
	035		3'-0"		7'-0"	1 3/4"	FG	WD	SF01	AL	--	--		LS1	10.0	NOTE B & F	
	036		3'-4"		7'-0"	2"	WSR	AL		AL	--	--		IT	5.0	NOTE C & D	
	038	A	3'-0"		7'-0"	1 3/4"	FG	WD	SF01	AL	--	--		LS1	7.0	NOTE B & F	
	039	A	3'-0"		7'-0"	1 3/4"	FG	WD	SF01	AL	--	--		LS1	7.0	NOTE B & F	
1.0 - FIRST FLOOR - MEZZANINE																	
E	1ST2		3'-0"		7'-0"	1 3/4"	N	WD	EX	EX	--	--		FR	31.0	60 MIN RATING, NOTE A	
	101	A	3'-0"		7'-0"	2"	WSR	AL		AL	--	--		IT	2.0	CR, W-STRIP, NOTE D	
	101	B	3'-0"		7'-0"	2"	WSR	AL		AL	--	--		IT	1.0	CR, W-STRIP, AUTOMATIC, NOTE D	
	101	C	3'-0"		7'-0"	2"	WSR	AL		AL	--	--		TS1	4.0	NOTE D	
	101	D	3'-0"		7'-0"	2"	WSR	AL		AL	--	--		TS1	3.0	AUTOMATIC, NOTE D	
	104		3'-0"		7'-0"	1 3/4"	F	WD	SF12	AL	--	--		LS1	11.0	NOTE B & F	
	105		3'-0"		7'-0"	1 3/4"	F	WD	SF13	AL	--	--		LS1	11.0	NOTE B & F	
	108		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	16.0		
	109		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	21.0		
	110		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	15.0		
	111		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	15.0		
	112		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	18.0	CR	
	113		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	22.0		
	114		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	19.0		
	115		3'-0"		7'-0"	1 3/4"	F	WD	AF1	HM	4D/A611	4D/A611		TS1	11.0		
	116		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	22.0		
	117		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	22.0		
	118		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	23.0	NOTE F	
	120		3'-0"		7'-0"	1 3/4"	FG			AL	--	--		LS1	9.0	NOTE B	
2.0 - SECOND FLOOR																	
E	2ST1		3'-4"	3'-4"	7'-0"	1 3/4"	N	WD	EX	EX	--	--		FR	32.0	MAG, 60 MIN RATING, NOTE A	
E	2ST2		3'-0"		7'-0"	1 3/4"	N	WD	EX	EX	--	--		FR	30.0	60 MIN RATING, NOTE A	
E	2ST4		3'-0"		7'-0"	1 3/4"	N	WD	EX	EX	--	--		FR	30.0	60 MIN RATING, NOTE A	
	202		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	19.0		
	203		3'-0"		7'-0"	1 3/4"	FG	WD	A	AL	4C/A611	4C/A611		LS1	11.0	NOTE F	
	204		3'-6"		7'-0"	1 3/4"	FG	WD	A	AL	4C/A611	4C/A611		LS1	11.0	NOTE F	
	205		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	16.0		
	206	A	3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	20.0	ARMOR	
	206	B	3'-6"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	17.0	ARMOR	
	207		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	14.0		
	208		3'-6"		7'-0"	1 3/4"	FG	WD	A	AL	4C/A611	4C/A611		LS1	11.0	NOTE F	
	209		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	18.0	CR	
	210		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	19.0		
	211		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	21.0		
	212		3'-6"		7'-0"	1 3/4"	FG	WD	SF16	AL	4C/A611	4C/A611		LS1	11.0	NOTE B & F	
	213		3'-6"		7'-0"	1 3/4"	FG	WD	SF16	AL	4C/A611	4C/A611		LS1	11.0	NOTE B & F	
	214		3'-0"	3'-0"	7'-0"	1 3/4"	FG	WD	A	AL	4C/A611	4C/A611		TS1	13.0	CR	
	216		3'-0"	3'-0"	7'-0"	1 3/4"	G	WD	A	AL	4C/A611	4C/A611		LS1	12.0	ARMOR, NOTE F	
	217		3'-0"		7'-0"	1 3/4"	N	WD	A	HM	4D/A611	4D/A611		TS1	8.0		
	220		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	12.0	ARMOR	
	221		7'-0"		7'-0"	1 3/4"	NS	AL		AL	3E/A611	4B/A611		LS1	99.0	NOTE E	
	222		3'-0"		7'-0"	1 3/4"	N	WD	A	HM	4D/A611	4D/A611		LS1	8.0		
	223	A	7'-0"		7'-0"	1 3/4"	NS	AL		AL	3E/A611	4B/A611		LS1	99.0	NOTE E	
	223	B	7'-0"		7'-0"	1 3/4"	NS	AL		AL	3E/A611	4B/A611		LS1	99.0	NOTE E	
	224	A	3'-0"		7'-0"	1 3/4"	N	WD	A	HM	4D/A611	4D/A611		LS1	8.0		
	224	B	3'-0"		7'-0"	1 3/4"	N	WD	A	HM	4D/A611	4D/A611		LS1	8.0		
	225		3'-6"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	24.0	NOTE F	
	226		7'-0"		7'-0"	1 3/4"	NS	AL		AL	3E/A611	4B/A611		LS1	99.0	NOTE E	
	227		3'-0"		7'-0"	1 3/4"	N	WD	A	HM	4D/A611	4D/A611		LS1	8.0		
	228		3'-6"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	24.0	NOTE F	
	229		3'-0"		7'-0"	1 3/4"	F	WD	A	HM	4D/A611	4D/A611		--	11.0		
	230		3'-0"		7'-0"	1 3/4"	F	WD	A	AL	4C/A611	4C/A611		--	8.0	NOTE F	
	231		3'-0"		7'-0"	1 3/4"	F	WD	A	AL	4C/A611	4C/A611		--	8.0	NOTE F	
	232		3'-0"		7'-0"	1 3/4"	FG	WD	SF03	AL	--	--		LS1	11.0	NOTE B & F	
	233		3'-0"		7'-0"	1 3/4"	FG	WD	SF04	AL	--	--		LS1	11.0	NOTE B & F	

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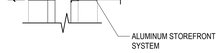
KEYPLAN

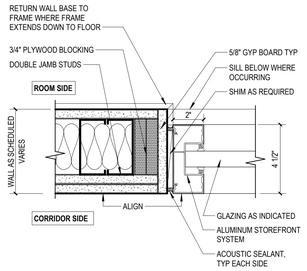
Number	Date	Issued For

DOOR SCHEDULE, DOOR AND FRAME TYPES, STOREFRONT ELEVATIONS

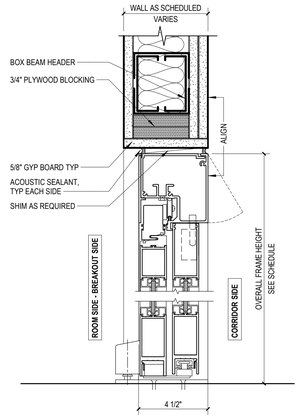
Date: 04/07/2022
Scale: 1/4" = 1'-0"
Proj. Number: 20287.10
Drawing Number: A610



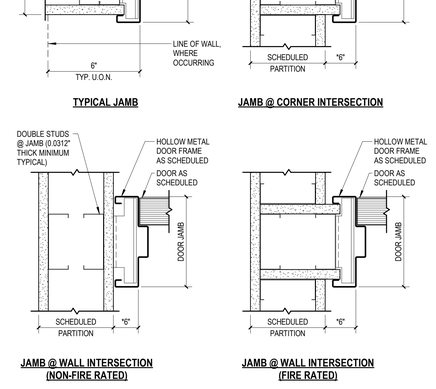
3A TYPICAL ALUMINUM WINDOW JAMB AT SQUARE, SHARED CORNER
3" = 1'-0"



3B TYPICAL ALUMINUM WINDOW JAMB
3" = 1'-0"



4B MANUAL INTERIOR ALUMINUM SLIDING ICU DOOR FRAME - HEAD/SILL
3" = 1'-0"

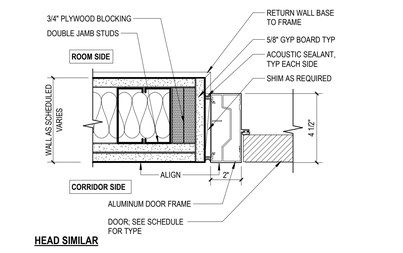


TYPICAL JAMB | JAMB @ CORNER INTERSECTION

JAMB @ WALL INTERSECTION (NON-FIRE RATED) | JAMB @ WALL INTERSECTION (FIRE RATED)

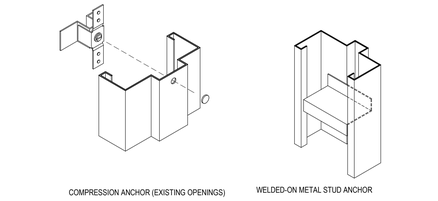
5A TYP HM FRAME RELATIONSHIPS AT STUD PARTITIONS
3" = 1'-0"

3C TYPICAL ALUMINUM WINDOW HEAD
3" = 1'-0"

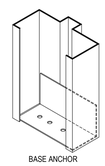


HEAD SIMILAR

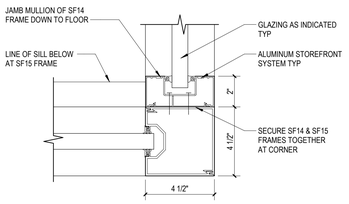
4C TYPICAL DOOR JAMB AT ALUMINUM FRAME
3" = 1'-0"



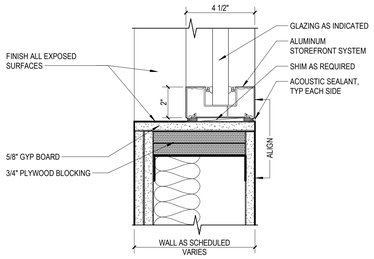
ANCHORS FOR METAL STUD PARTITIONS



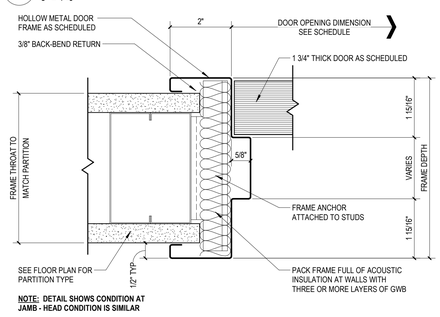
BASE ANCHORS



2D TYPICAL ALUMINUM WINDOW JAMB AT SHARED CORNER
3" = 1'-0"

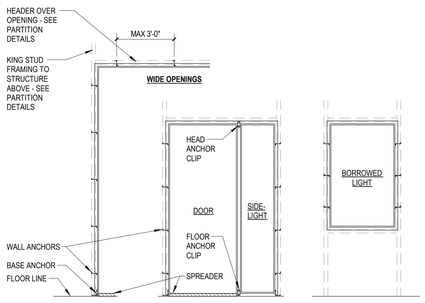


3D TYPICAL ALUMINUM WINDOW SILL
3" = 1'-0"

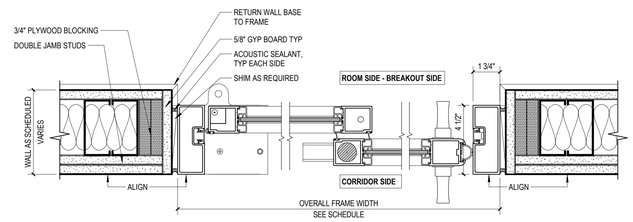


NOTE: DETAIL SHOWS CONDITION AT JAMB - HEAD CONDITION IS SIMILAR

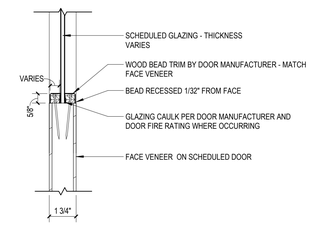
4D TYP HM DBL-RABETTED JAMB @ GWB WRAPPED
6" = 1'-0"



NOTES:
1) PROVIDE MIN. FOUR(4) ANCHORS FOR OPENINGS TO 7'-6" TALL. PROVIDE MIN. FIVE (5) ANCHORS FOR OPENINGS UP TO 10'-0" TALL. ON BORROWED LITES WITH RAISED ABOVE FLOOR LINE. PROVIDE MIN. THREE (3) ANCHORS PER JAMB. PROVIDE MULLION BASE ANCHORS AT MIDPOINT OF SILL FOR OPENINGS GREATER THAN 3'-0" WIDE.
2) LOCATE WALL ANCHORS INSIDE THE HOLLOW METAL FRAMES. POSITION CLIPS AS FOLLOWS:
   - ON HINGE JAMB, IMMEDIATELY ABOVE EACH HINGE REINFORCEMENT AND JUST BELOW TOP HINGE REINFORCEMENT.
   - ON STRIKE JAMB, DIRECTLY OPPOSITE CLIPS ON HINGE JAMB.
   - ON BORROWED LIGHTS, SPACE EVENLY.
3) SECURE THE FRAME TO THE FLOOR WITH TWO (2) FASTENERS THRU THE BASE ANCHOR CLIP ON EACH JAMB WELD FLOOR CLIPS TO JAMBS. PROVIDE SPREADER AT FLOOR LINE ON ALL DOOR FRAMES. PROVIDE HEAD & FLOOR ANCHOR CLIPS AT THE CENTER MULLION OF FRAMES WITH SIDELITES.



3E MANUAL INTERIOR ALUMINUM SLIDING ICU DOOR FRAME - JAMB
3" = 1'-0"



4E TYP VISION LITE FRAME IN WOOD DOOR
3" = 1'-0"

5E TYP HM FRAME ANCHORS
3" = 1'-0"

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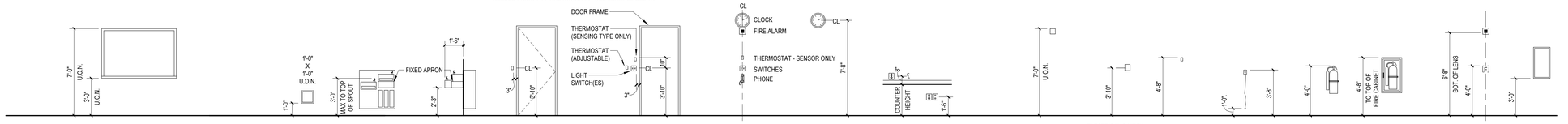
KEYPLAN

Number	Date	Issued For

DOOR & FRAME DETAILS

Date 04/07/2022
Scale As indicated
Proj. Number 20287.10
Drawing Number A611

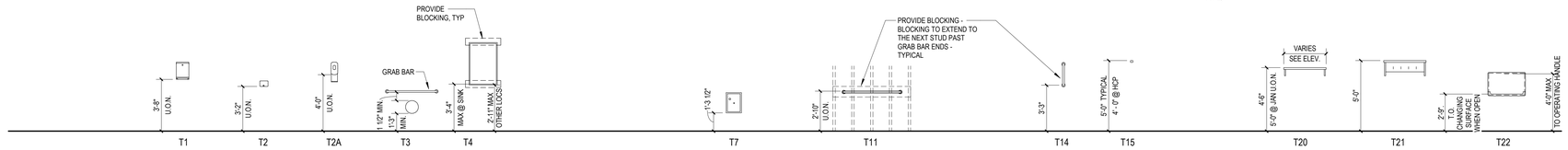
CONTRACTOR NOTE:
WHERE WALL MOUNTED ELECTRICAL/AV/IT/SECURITY/LIFE SAFETY DEVICES ARE LOCATED AT DIFFERENT ELEVATIONS, BUT IN CLOSE PROXIMITY TO ONE ANOTHER, ALIGN THESE DEVICES VERTICALLY ABOUT THEIR CENTERLINE WHERE POSSIBLE - REVIEW WITH ARCHITECT AS NEEDED PRIOR TO FINAL ROUGH-IN - SEE EXAMPLE BELOW



VISUAL DISPLAY SURFACES (VDI#) (VERIFY SIZES & LOCATIONS WITH DRAWINGS AND / OR SCHEDULES) | ACCESS DOOR | ELEVATION TYPICAL "HI-LO" ELECTRIC WATER COOLER | SECTION | CARD READER AT DOOR, LATCH SIDE | TYPICAL DEVICE ARRANGEMENT AT TYPICAL ROOM DOOR | EXAMPLE - TYPICAL VERTICAL DEVICE ARRANGEMENT ON WALL | WALL CLOCK | TYP. ELECTRICAL/DATA OUTLETS | TV JACK, CABLE OUTLET MONITOR OUTLET, CLOCK OUTLET | ELECTRICAL SWITCH, NURSE CALL, CANCEL SWITCH, FIRE ALARM CONTROLPUSH PLATE, THERMOSTAT/ HUMIDSTAT (ADJUSTABLE TYPE) | THERMOSTAT/ HUMIDSTAT (SENSING TYPE) | EMERGENCY CALL BUTTON WITH PULL CORD | FE | FEC | FIRE ALARM SIGNAL AND PULL STATION - ALIGN UNITS | ELECTRICAL COMMUNICATIONS PANELBOARD

GENERAL

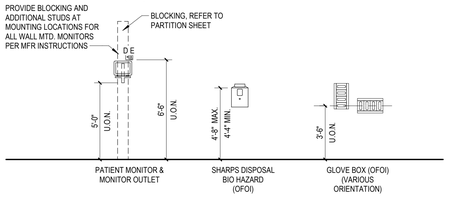
ELECTRICAL



SURFACE MOUNTED PAPER TOWEL DISPENSER (OFCI) | SOAP DISPENSER (OFCI) | HAND SANITIZER (OFOI) | TOILET PAPER DISPENSER (OFCI) | FRAMED MIRROR UNIT (CFCI) | SURFACE MOUNTED - SANITARY NAPKIN DISPOSAL (CFCI) | 36" GRAB BAR / T11A 42" GRAB BAR (CFCI) | 18" GRAB BAR (CFCI) | SINGLE ROBE/CLOTHES HOOK (CFCI) | S.S. SHELF 5" DEEP AT SCRUB SINKS, 8" DEEP AT JANITOR CLOSETS (CFCI) | S.S. UTILITY SHELF WITH MOP/BROWN HOLDERS (CFCI) | SURFACE MOUNTED BABY CHANGING STATION (CFCI)

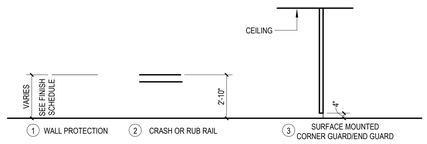
TOILET ACCESSORIES

TOILET ACCESSORIES AND SPECIALTY EQUIPMENT RESPONSIBILITIES
OFOI - OWNER FURNISHED, OWNER INSTALLED
OFCI - OWNER FURNISHED, CONTRACTOR INSTALLED
CFCI - CONTRACTOR FURNISHED, CONTRACTOR INSTALLED



PATIENT MONITOR & MONITOR OUTLET | SHARPS DISPOSAL BIO HAZARD (OFOI) | GLOVE BOX (OFOI) (VARIOUS ORIENTATION)

SPECIALTY EQUIPMENT



NOTE: COORDINATE WALL PROTECTION WITH FIRE PROTECTION PANELS, DOORS, ACCESS DOORS, UTILITIES, ETC.

NOTE:
SEE A601 FOR BLOCKING DETAIL FOR WALL MOUNTED DEVICES

NOTE:
ALL DIMENSIONS INDICATED ARE TO FACE OF FINISH MATERIAL (i.e. CERAMIC TILE)

5A TYPICAL MOUNTING HEIGHTS
1/4" = 1'-0"

5B WALL SPECIALTY DESIGNATIONS
1/4" = 1'-0"

VIEW FROM INSIDE OF TOILET STALL

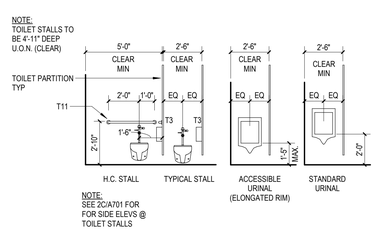
1C TYPICAL ACCESSIBLE COMPARTMENT DOOR
1/4" = 1'-0"

TYPICAL TOILET ROOM WALL HUNG LAV. ELEVATION
1/4" = 1'-0"

1. COORDINATE HEIGHT OF WATER CLOSET FLUSHOMETER WITH MOUNTING HEIGHT OF REAR GRAB BAR TO PROVIDE CLEARANCE FOR SERVING OF VALVES WITHOUT REQUIRING REMOVAL OF GRAB BAR.

2. REFER TO ELEVATION 6C/A701 AND/OR 7C/A701 FOR MOUNTING HEIGHTS OF REAR AND SIDE GRAB BARS TO ACCOMMODATE INSTALLATION OF SWING AWAY AND/OR SWING UP GRAB BAR, WHERE OCCURRING.

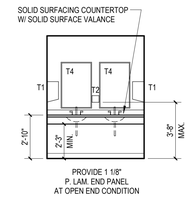
3C TYPICAL WALL HUNG TOILET ELEVATION
1/4" = 1'-0"



H.C. STALL | TYPICAL STALL | ACCESSIBLE URINAL (ELONGATED RIM) | STANDARD URINAL

NOTE:
SEE 2C/A701 FOR FOR SIDE ELEVS @ TOILET STALLS

4C TYPICAL TOILET / URINAL STALL ELEVATION
1/4" = 1'-0"



PROVIDE 1 1/8" P. LAM. END PANEL AT OPEN END CONDITION

5C TYPICAL LAVATORY COUNTER ELEVATION
1/4" = 1'-0"

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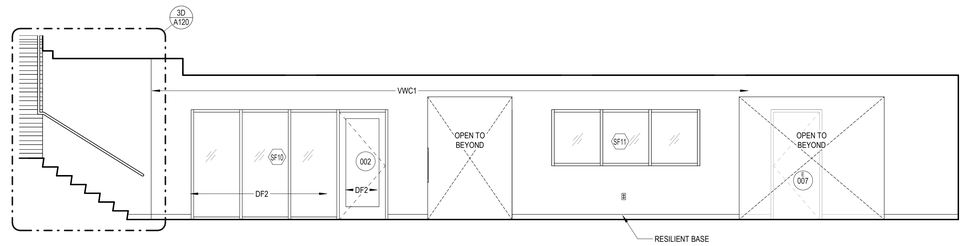
KEYPLAN

Number	Date	Issued For

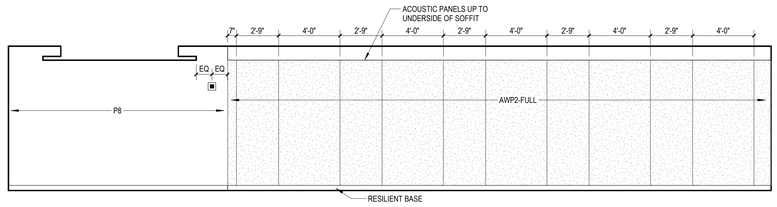
TYPICAL MOUNTING HEIGHTS

Date: 04/07/2022
Scale: 1/4" = 1'-0"
Proj. Number: 20287.10

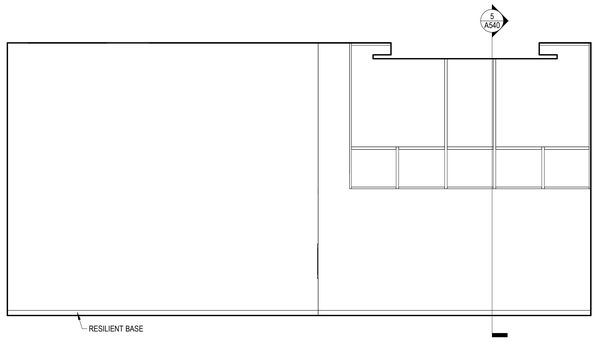
Drawing Number: A701



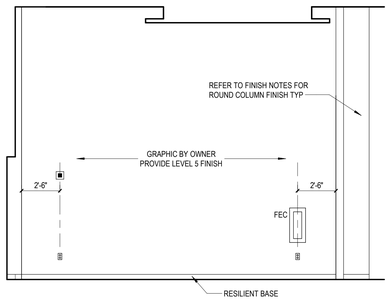
1A IPE STUDENT LOUNGE LOWER LEVEL- NORTH
1/4" = 1'-0"



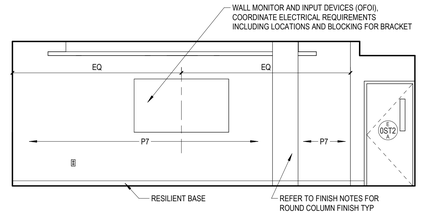
4A IPE STUDENT LOUNGE LOWER LEVEL - SOUTH
1/4" = 1'-0"



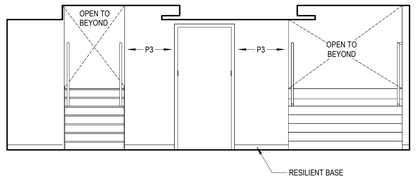
1B STUDENT BREAK OUT SEATS - WEST
1/4" = 1'-0"



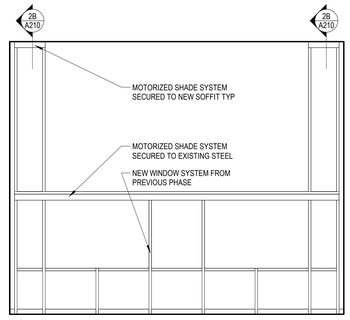
2B STUDENT LOUNGE LOWER LEVEL - WEST
1/4" = 1'-0"



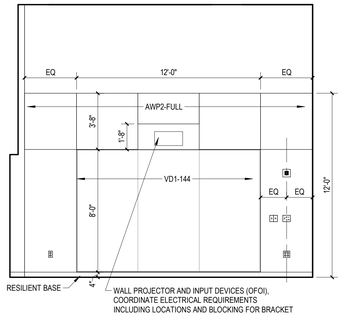
3B IPE STUDENT LOUNGE LOWER LEVEL - EAST
1/4" = 1'-0"



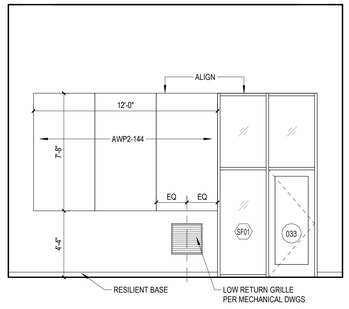
4B IPE STUDENT LOUNGE LOWER LEVEL - WEST
1/4" = 1'-0"



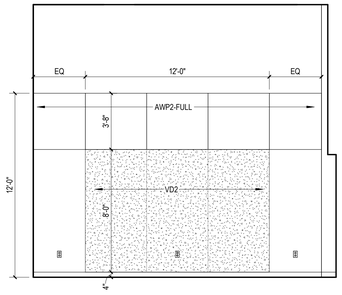
2C SEMINAR ROOM 033 - SOUTH
1/4" = 1'-0"



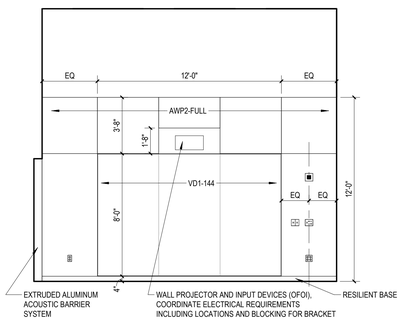
3C SEMINAR ROOM 033 - WEST
1/4" = 1'-0"



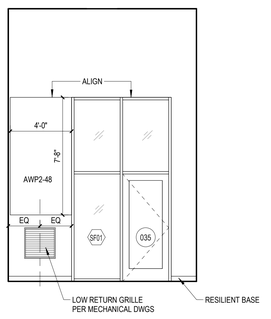
4C SEMINAR ROOM 033 - NORTH
1/4" = 1'-0"



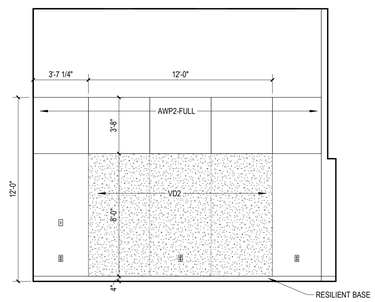
5C SEMINAR ROOM 033 - EAST
1/4" = 1'-0"



3D SEMINAR ROOM 035 - WEST
1/4" = 1'-0"



4D SEMINAR ROOM 035 - NORTH
1/4" = 1'-0"



5D SEMINAR ROOM 035 - EAST
1/4" = 1'-0"

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INTERIOR ELEVATIONS

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1/4" = 1'-0"
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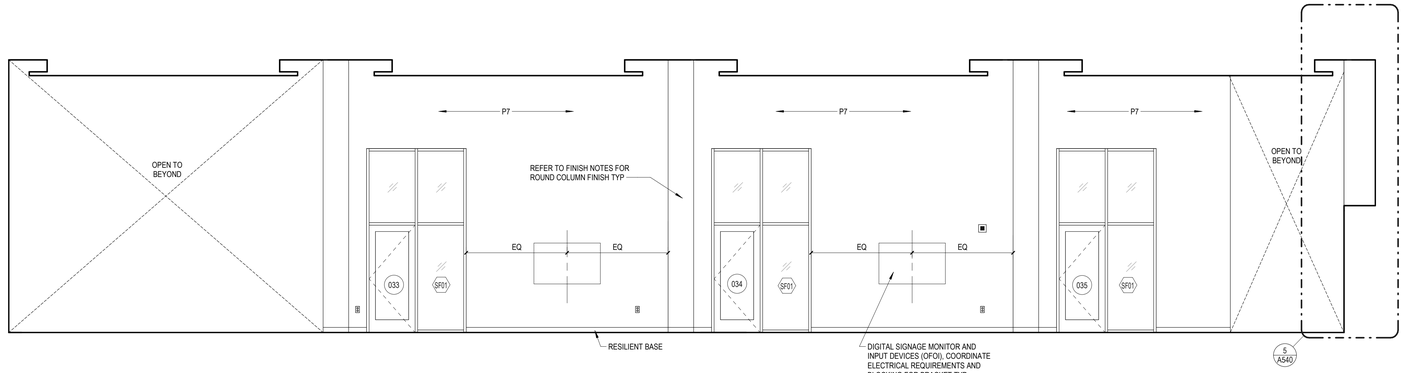
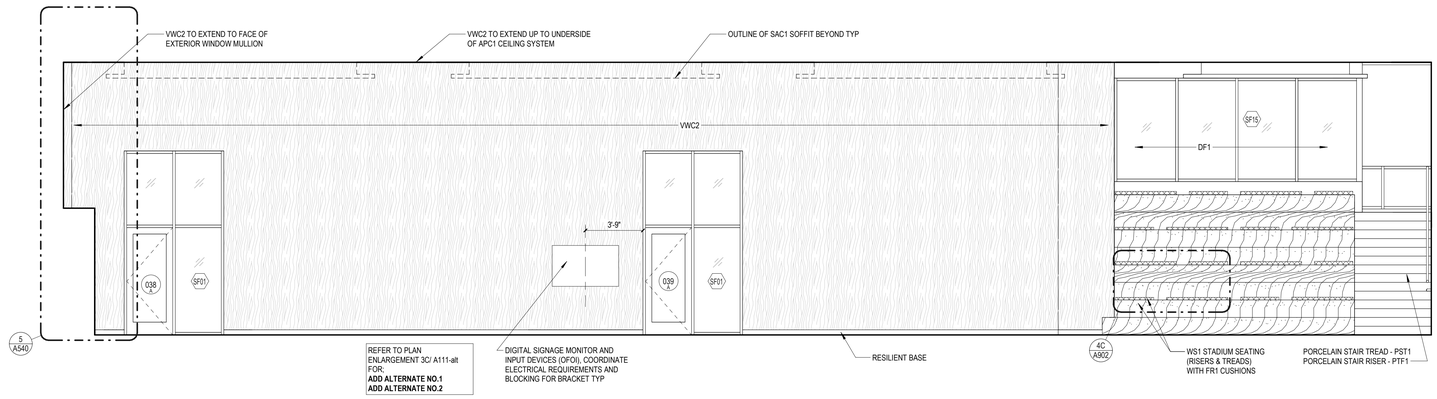
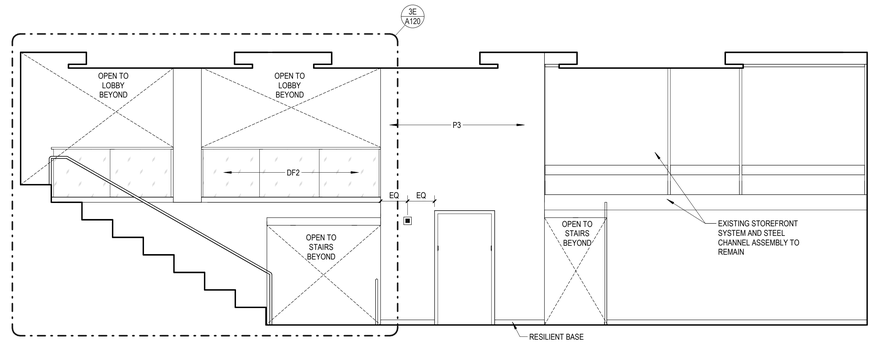


2B MAIN STREET - SOUTH
1/4" = 1'-0"



2C MAIN STREET - NORTH
1/4" = 1'-0"



4D MAIN STREET - EAST
1/4" = 1'-0"

3"
1 1/2"
3/4"
1/2"
3/8"
1/4"
3/16"
1/8"
1/16"
3/32"
1"

A
B
C
D
E

1 2 3 4 5

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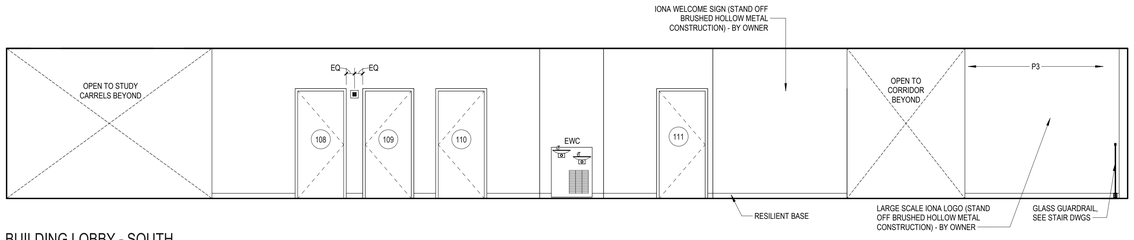
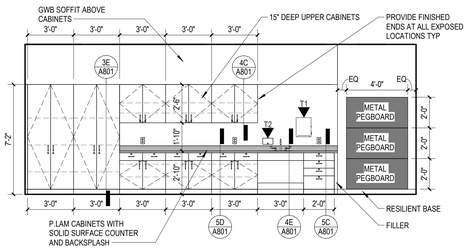
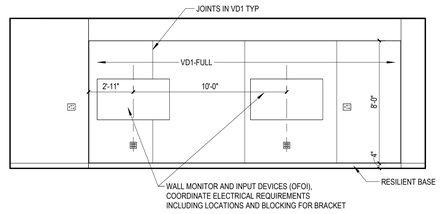


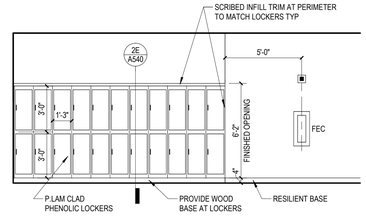
3A BUILDING LOBBY - SOUTH
1/4" = 1'-0"



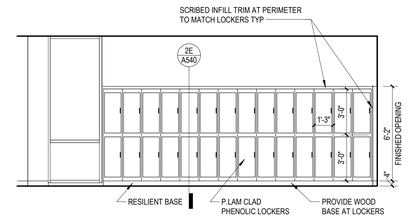
2B IPE COLLABORATION SPACE - WEST
1/4" = 1'-0"



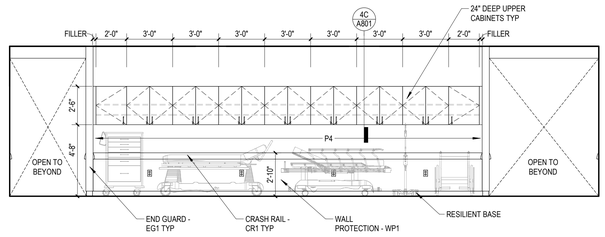
3B IPE COLLABORATION SPACE - EAST
1/4" = 1'-0"



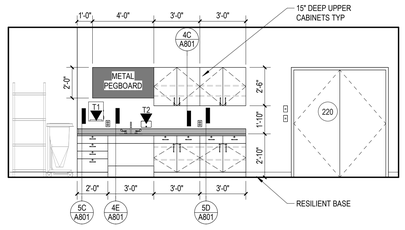
4B LOCKER CORRIDOR FIRST FLOOR - WEST
1/4" = 1'-0"



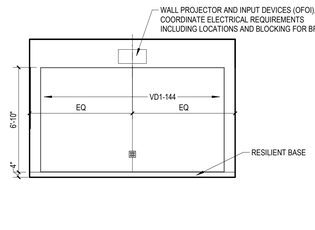
5B LOCKER CORRIDOR FIRST FLOOR - EAST
1/4" = 1'-0"



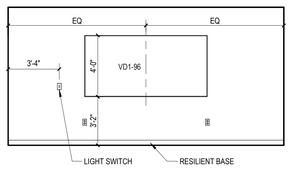
4C SECOND FLOOR STORAGE ALCOVE - NORTH
1/4" = 1'-0"



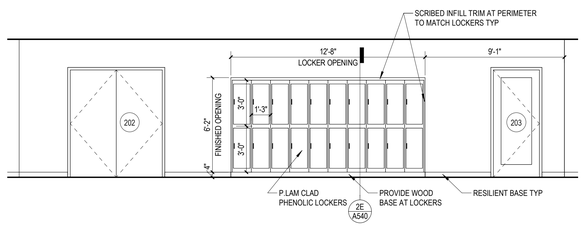
1D STORAGE / WORK ROOM - WEST
1/4" = 1'-0"



2D DEBRIEF ROOM 233 - EAST
1/4" = 1'-0"



3D DEBRIEF ROOM 233 - NORTH
1/4" = 1'-0"



4D SECOND FLOOR - LOCKERS
1/4" = 1'-0"

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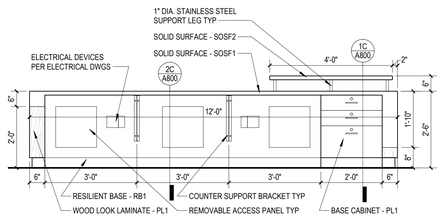
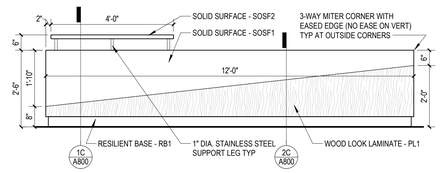
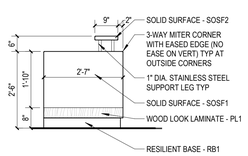


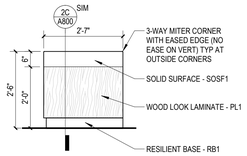
1A NURSE'S STATION - REAR ELEVATION
1/2" = 1'-0"



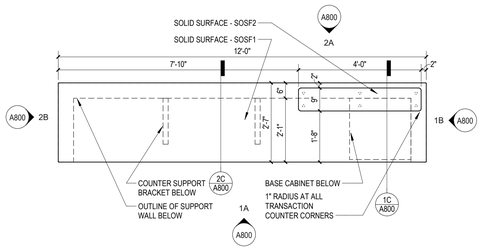
2A NURSE'S STATION - FRONT ELEVATION
1/2" = 1'-0"



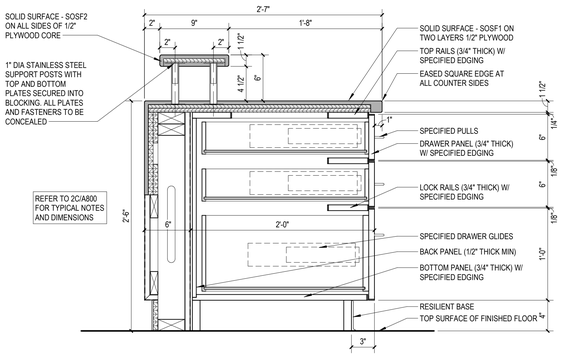
1B NURSE'S STATION - SIDE B ELEVATION
1/2" = 1'-0"



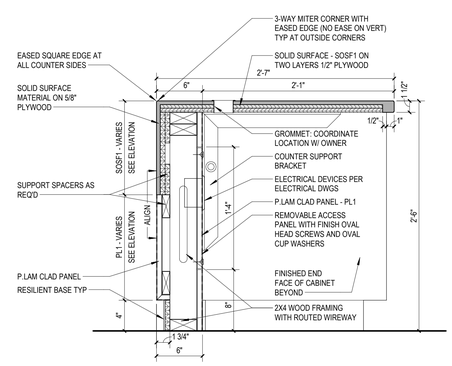
2B NURSE'S STATION - SIDE A ELEVATION
1/2" = 1'-0"



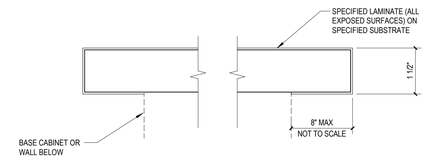
3B NURSE'S STATION - ENLARGED PLAN
1/2" = 1'-0"



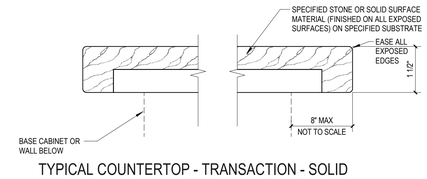
1C NURSES STATION BASE CABINET - 3 BOX DRAWERS
1 1/2" = 1'-0"



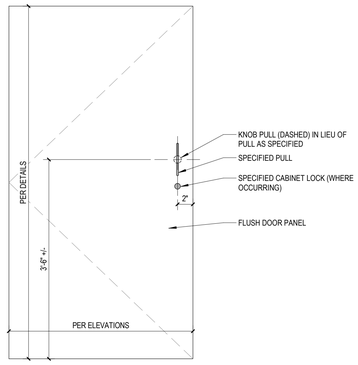
2C NURSE STATION - TYPICAL SECTION
1 1/2" = 1'-0"



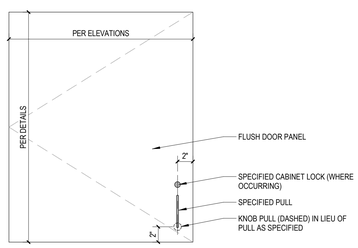
4A TYPICAL COUNTERTOP - TRANSACTION - LAMINATE
6" = 1'-0"



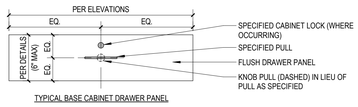
4B TYPICAL COUNTERTOP - TRANSACTION - SOLID SURFACE / STONE
6" = 1'-0"



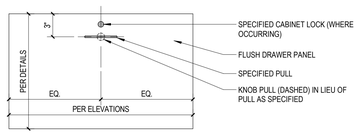
TYPICAL FULL-HEIGHT TALL CABINET DOOR PANEL



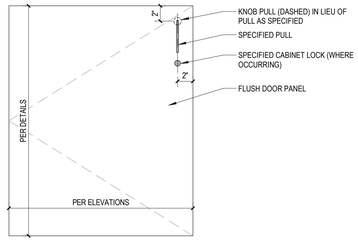
TYPICAL WALL CABINET DOOR PANEL



TYPICAL BASE CABINET DRAWER PANEL

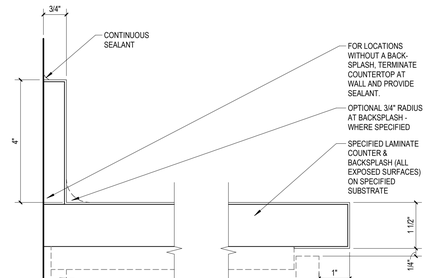


TYPICAL BASE CABINET DEEP DRAWER PANEL

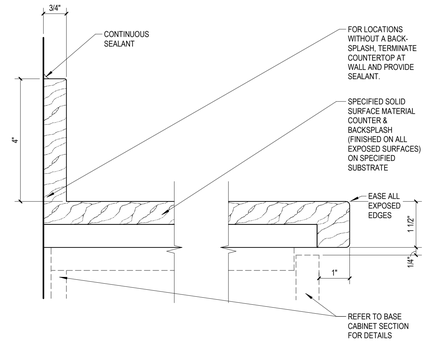


TYPICAL BASE CABINET DOOR PANEL

4E TYPICAL CABINET DOOR & DRAWER PANEL ELEVATIONS FOR HARDWARE PLACEMENT
1 1/2" = 1'-0"



5D TYPICAL COUNTERTOP - LAMINATE
6" = 1'-0"



5E TYPICAL COUNTERTOP - SOLID SURFACE
6" = 1'-0"

GENERAL CASEWORK NOTES

1. REFER TO SPECIFICATIONS FOR MINIMUM CASEWORK STANDARDS OF CONSTRUCTION AND HARDWARE REQUIREMENTS.
2. SEE FINISH PLANS FOR CABINET AND COUNTERTOP MATERIAL, PRODUCT & COLOR SPECIFICATION.
3. ALL CABINETS TO BE ANCHORED TO IN-WALL BLOCKING. SPECIFIC LOCATIONS FOR BLOCKING TO BE COORDINATED WITH CASEWORK FABRICATOR/INSTALLER.
4. FILLER PANELS - PROVIDE 1" (MIN.) FILLERS BETWEEN CABINETS & ADJACENT PERPENDICULAR WALL AS NECESSARY. PROVIDE 1 1/2" (MIN.) FILLERS AT DRAWER UNITS. COORDINATE SPECIAL FILLER SIZES WITH SPECIFIED DOOR HARDWARE, ADJACENT CASEWORK AND/OR APPLIANCES AS REQUIRED. ALL FILLERS TO BE SCRIBED TO FINISHED WALL SURFACE, OR ADJACENT CONSTRUCTION. BASE CABINET FILLERS TO HAVE TOE-KICK PROFILE MATCHING ADJACENT BASE CABINETS.
5. PROVIDE FINISHED END PANELS AT ALL EXPOSED ENDS OF UPPER AND LOWER CABINETS.
6. THE INSIDE OF ANY CASEWORK VISIBLE FROM THE OUTSIDE SHALL HAVE P.LAM TO MATCH THE PLAM AS SPECIFIED FOR THAT AREA.
7. DO NOT EXTEND INTERMEDIATE SIDERAILS AT UNDERSIDE OF WALL CABINETS TO ALLOW FOR CONTINUOUS STRING OF LIGHT FIXTURES.
8. ALL DOORS AND DRAWERS TO HAVE RUBBER BUMPERS INSTALLED BETWEEN CABINET FACE AND INSIDE FACE OF DOOR/DRAWER.
9. EXTEND ALL COUNTERTOPS TO FINISHED WALL SURFACE AND SCRIBE. COUNTERTOP END SPLASHES TO BE PROVIDED AS INDICATED ON DRAWINGS. WHERE NO END SPLASH IS INDICATED, PROVIDE COUNTERTOP OVERHANG OF 1/2" WITH FINISHED EDGES. FOR SOLID SURFACES, STONE, AND WOOD, PROVIDE EASED/ROUNDED EDGES.
10. ALL COUNTERS WITH SINKS SHALL BE CONTINUOUS SOLID SURFACE. SEE FINISH PLANS FOR COLOR & MATERIAL SELECTION.
11. COUNTERTOPS THAT EXCEED 5'-0" BETWEEN SUPPORTS (SUCH AS BASE CABINETS AND WALLS) SHALL HAVE INTERMEDIATE SUPPORTS AS DETAILED.
12. ALL OUTSIDE CORNERS ON COUNTERTOPS SHALL BE EASED WITH 1" (MIN) RADIUS.
13. VERIFY SINK BASE(S) WITH SINK(S) SPECIFIED.
14. PROVIDE LOCKS FOR ALL CABINET DOORS AND DRAWERS, UNLESS OTHERWISE NOTED. CYLINDERS FOR CABINET DRAWERS AND DOORS SHALL BE KEYED ALIKE WITHIN EACH SPACE, AND MASTER KEYED THROUGHOUT THE PROJECT, UNLESS OTHERWISE NOTED. COORDINATE SPECIFIC LOCKING ARRANGEMENTS WITH OWNER.
15. PROVIDE GROMMETS IN OPEN COUNTER WORKSTATIONS AND RECEPTION DESKS AT 36" O.C. OR ONE PER COMPUTER STATION, WHICHEVER IS GREATER.
16. COORDINATE ALL ELECTRICAL DEVICES AND ASSOCIATED EQUIPMENT W/ CASEWORK. SEE EQUIPMENT AND/OR FURNITURE PLANS AND ELECTRICAL DWGS.
17. SOME ITEMS REQUIRE UTILITY CONNECTIONS, INCLUDING ITEMS IN OTHER PROJECT PHASES AND OWNER-INSTALLED ITEMS. SEE MEP & AV/IT DRAWINGS AND REFER TO EQUIPMENT MANUALS FOR COMPLETE COORDINATION. COORDINATE WITH OWNER AND OTHER PROJECT PHASES FOR WORK NOT INCLUDED IN THIS DOCUMENT PACKAGE.

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CASEWORK - TYPICAL CABINET NOTES & DETAILS

Date: 04/07/2022
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Proj. Number: 20287.10
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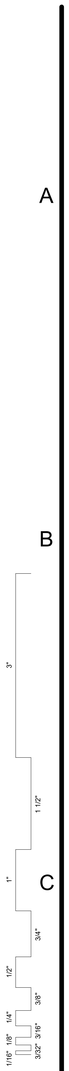
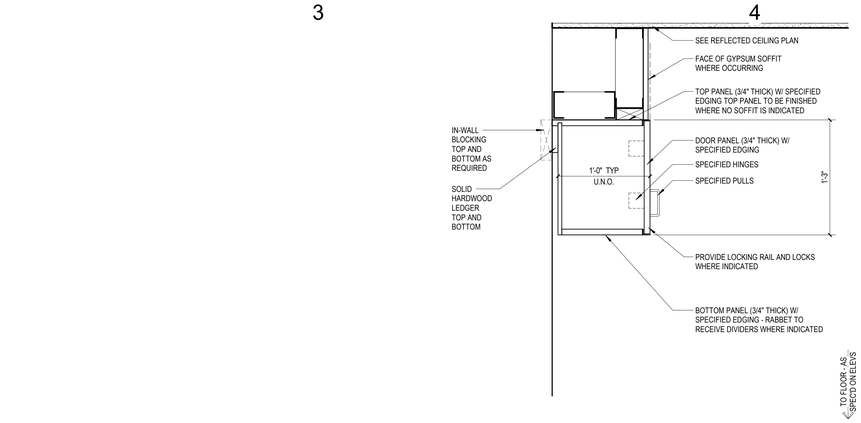
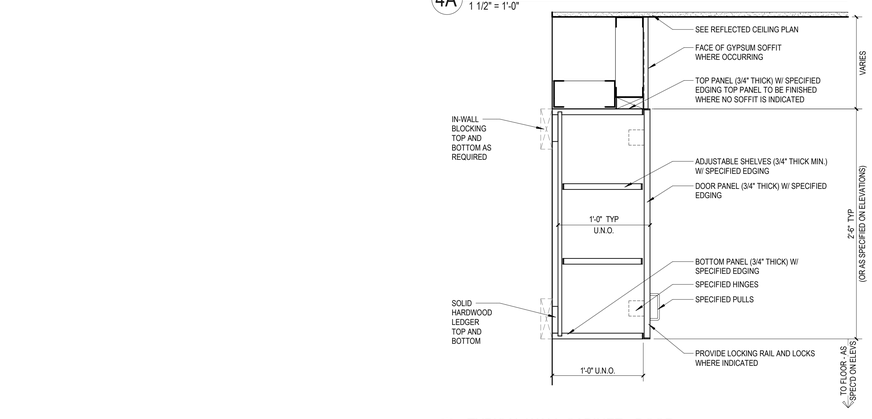
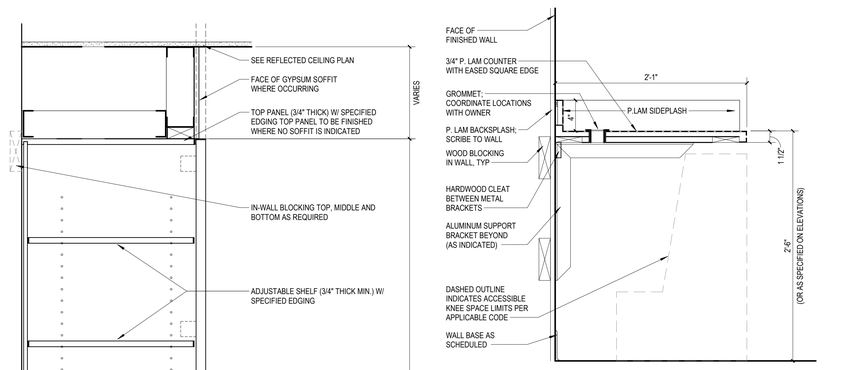




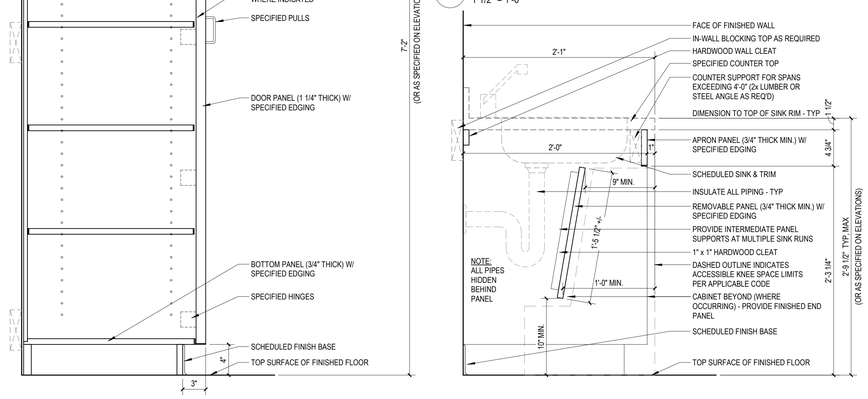
4A TYPICAL WALL CABINET - DOOR ABOVE SINK
1 1/2" = 1'-0"



4C TYPICAL WALL CABINET - DOOR
1 1/2" = 1'-0"

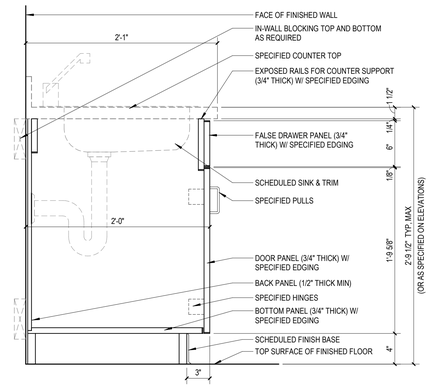


4D TYPICAL BASE - OPEN COUNTER
1 1/2" = 1'-0"

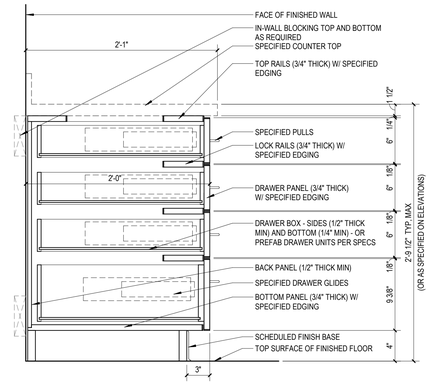


4E TYPICAL SINK BASE - W/ REMOVABLE PANEL
1 1/2" = 1'-0"

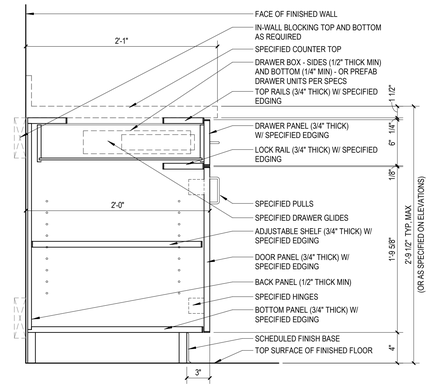
3E TYPICAL TALL CABINET - DOOR & SHELVES
1 1/2" = 1'-0"



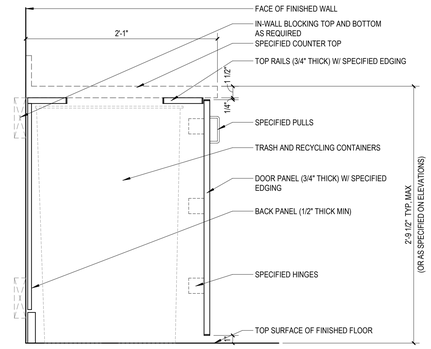
5A TYPICAL BASE CABINET - DOOR AND SINK
1 1/2" = 1'-0"



5C TYPICAL BASE CABINET - 4 BOX DRAWERS
1 1/2" = 1'-0"



5D TYPICAL BASE CABINET - BOX DRAWER AND DOOR
1 1/2" = 1'-0"



5E TYPICAL BASE CABINET - WASTE / RECYCLING
1 1/2" = 1'-0"

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171 White Plains Rd,
Bronxville, NY 10708

KEYPLAN

Number	Date	Issued For

CASEWORK - TYPICAL CABINET DETAILS

Date
04/07/2022
Scale
1 1/2" = 1'-0"
Proj. Number
20287.10

Drawing Number
A801

Autodesk Docs://20287 - IONA College School of Health Sciences/A_20287_IONA COLLEGE SCHOOL OF HEALTH SCIENCES_R22.rvt
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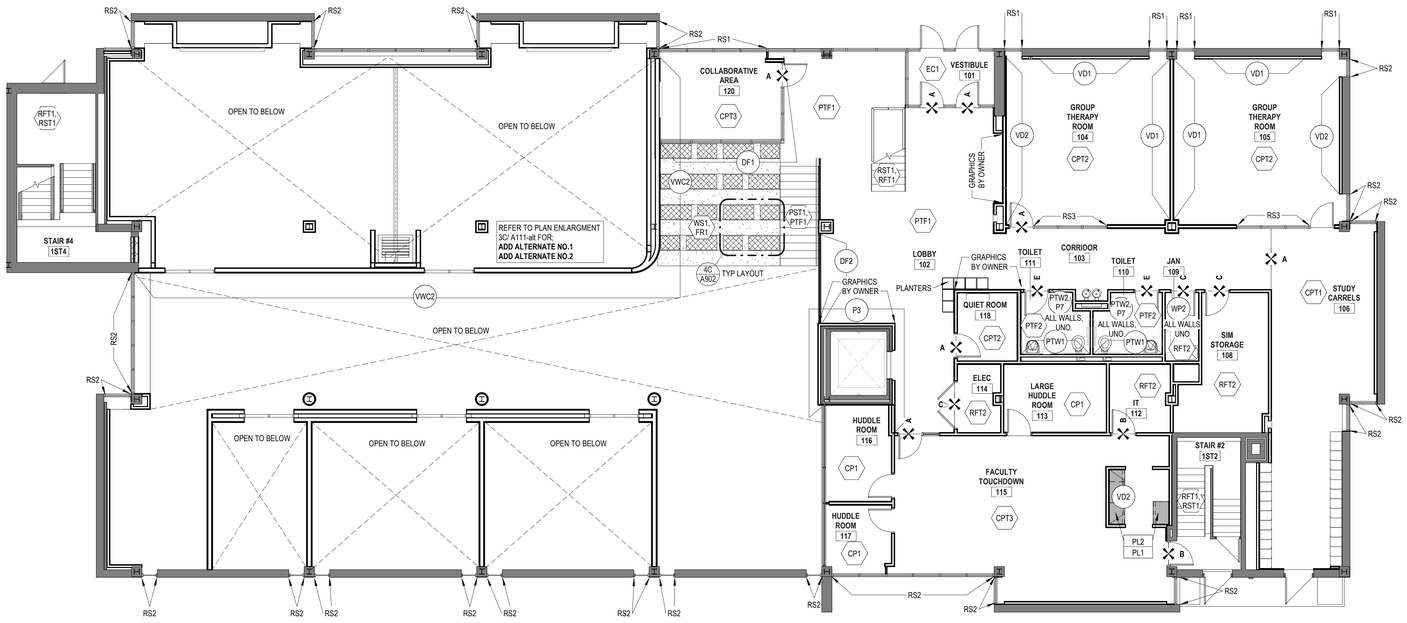
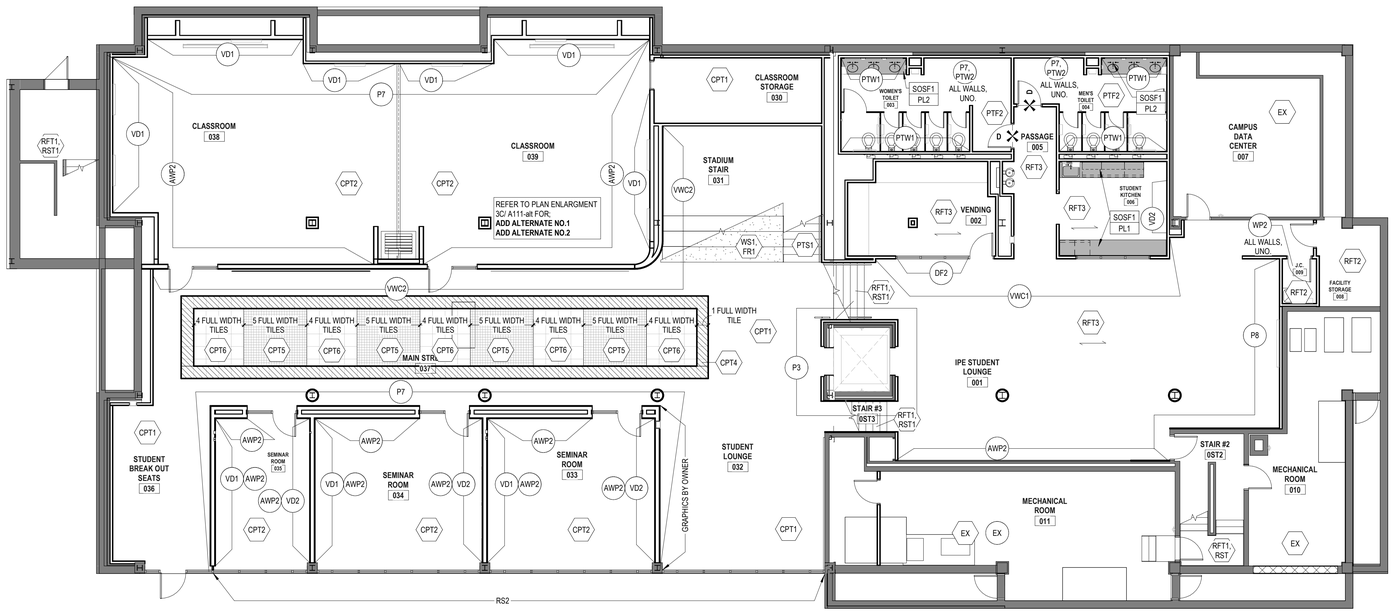


1C FIRST FLOOR FINISH PLAN
1/8" = 1'-0"



1E BASEMENT / LOWER LEVEL FINISH PLAN
1/8" = 1'-0"

FINISH PLAN GRAPHIC LEGEND:

- CG — CORNER GUARD PER 1C/A902
- CR1-WP1 — WALL PROTECTION PER 1B & 4B/A902
- CR-1 — CRASH RAIL PER 4B/A902
- XX — FLOOR MATERIAL TAG
- XX — WALL MATERIAL TAG
- CASEWORK TAG
  - XX — COUNTERS
  - XX — CABINETS
- FLOOR TRANSITION PER 1A/A902

FINISH PLAN GENERAL NOTES

GENERAL
1. REFER TO FINISH PRODUCT LIST FOR DEFINITION OF MATERIALS AND SUBSTRATES.
2. REFER TO INTERIOR ELEVATIONS FOR LOCATION OF WALL TILE PATTERNS, WALLCOVERING, ACCENT PAINT LOCATIONS, WAINSCOT TREATMENT, WALL PROTECTION AND SPECIALTY DESIGNS.
3. WHERE DEMOLITION WORK HAS TAKEN PLACE, REPAIR OR REPLACE DAMAGED AREAS WITH NEW FINISHES TO MATCH EXISTING UNLESS OTHERWISE NOTED.
4. REFER TO RELATED SPECIFICATION SECTION FOR SPECIFIC INFORMATION REGARDING PRODUCT INSTALLATION, HANDLING, MAINTENANCE, DATA REQUIREMENTS, SUBMITTALS AND OTHER PERTINENT INFORMATION.
5. IF ANY DISCREPANCIES OCCUR BETWEEN FINISH PRODUCT LIST, FINISH PLAN AND SPECIFICATIONS THE ARCHITECT AND/OR INTERIOR DESIGNER MUST BE CONSULTED REGARDING DIRECTION OF DESIGN INTENT PRIOR TO ORDERING AND INSTALLATION OF ANY OF THE PRODUCTS IN QUESTION.
6. REFER TO SPECIFICATIONS FOR ADDITIONAL MANUFACTURERS.
7. NEW WINDOW SILLS TO BE WOOD TO MATCH EXISTING.
8. ALL ROUND METAL COLUMNS TO BE PAINTED P1a
9. FIELD FINISH VENTS, GRILLES, ACCESS PANELS, PLUG STRIPS, CABINET UNIT HEATERS, FIRE EXTINGUISHER CABINETS, RADIATORS, ELECTRICAL PANEL BOARDS, DIFFUSERS (IN FINISHED AREAS) TO MATCH SURFACE ON WHICH THEY OCCUR

FLOORS
10. REFER TO FLOOR PATTERN PLANS FOR EXTENT OF FLOOR PATTERNS.
11. IN LOCATIONS WHERE THERE IS AN OPEN SPACE BELOW A MILLWORK COUNTER THE FLOORING SPECIFIED FOR THAT ROOM IS TO CONTINUE INTO THAT OPENING.
12. DIRECTION OF FLOORING INSTALLATION IS AS INDICATED ON FINISH PLANS WITH ARROWS. ARROWS INDICATE DIRECTION OF LINEAR PATTERN AND/OR DIRECTION OF LONGEST SIDE OF TILE.
13. AT TRANSITIONS BETWEEN CARPET AND OTHER FLOOR FINISHES, PROVIDE APPROPRIATE TRANSITION STRIP PER SPECIFICATIONS, TO BE APPROVED BY ARCHITECT. REFER TO TRANSITION DETAILS ON A810.
14. CUT FLOOR TILE AS REQUIRED TO SLOPE TOWARDS FLOOR DRAINS.
15. LOCATE TRANSITIONS IN FLOOR FINISH UNDER CENTERLINE OF DOOR UNO.

WALLS
16. ALL WALLS TO BE PAINTED P1, UNO. REFER TO FINISH PLANS AND ELEVATIONS.
17. REFER TO FINISH PLANS FLOOR PLANS FOR LOCATION OF WALL PROTECTION AND CORNER GUARDS.
18. ALL WALLS IN PUBLIC RESTROOMS TO HAVE TILE (PTW1 OR PTW2; REFER TO FINISH PLANS FOR LOCATIONS) TO 7'-2"AFF, UNO. PAINT WALL P7 ABOVE TILE. GENDER NEUTRAL RESTROOM TO HAVE FULL HEIGHT TILED WALLS (PTW1 OR PTW2; REFER TO FINISH PLANS FOR LOCATIONS)
19. AT WWP1 WALLS, PAINT WALL P6 BEHIND WOOD PANELS (ADD ALTERNATE)
20. COLUMNS PAINTED P2

BASE
21. PROVIDE RB-1 AT ALL FLOORING LOCATIONS EXCEPT AT STORAGE, UTILITY AND JANITOR ROOMS, UNO.
22. ALL ELEC, IDF, DATA, SERVER, STAIR WELLS, AND STORAGE ROOMS TO HAVE RB2 UNO.

CEILINGS
23. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS AND EXTENT OF CEILING TYPES.
24. ALL EXPOSED CEILINGS TO BE PAINTED – INCLUDING PLUMBING, STRUCTURAL AND MECHANICAL.
25. AT CONDITIONS WHERE GYP. CEILING IS PAINTED AN ACCENT COLOR, PAINT SOFFIT TO MATCH.

STAIRS
26. ALL STAIRS SHALL BE: RISERS RST1, TREADS: RST1, STRINGER: P8, LANDINGS: RFT1, RAILINGS: P3, UNO.
27. STAIR 1 TO BE RISERS AND TREADS: RST1, STRINGER: P7, LANDINGS RFT1, RAILINGS: GLASS AND STAINLESS STEEL.
28. STAIR ADJACENT TO STADIUM SEATING TO BE: RISER: PTF1, TREADS: PST1, RAILING: STAINLESS STEEL
29. STADIUM SEATING: RISERS TO BE WS1, TREADS TO BE WS1. PROVIDE 30"W X 22"D X 2"H & 48"W X 22"D X 2"H CUSHIONS UPHOLSTERED IN FR1.

DOORS
30. ALL WOOD DOORS TO BE FINISH: WS1
31. ALL HM AND ALUMINUM DOOR AND WINDOW FRAMES, NEW OR EXISTING, TO BE PAINTED TO MATCH P2, UNO. PAINT FINISH SHALL BE SEMI-GLOSS, UNO.

CASEWORK
32. REFER TO CASEWORK FINISH TAGS ON FINISH PLANS.

WALL PROTECTION
33. REFER TO FINISH PLANS FOR LOCATIONS OF WALL PROTECTION.

Finishes for Miscellaneous Items

- Toilet Compartments: Bobrick Duraline 1080/1180, 1/2" panels, 3/4" doors, 8841-58 White Ash, architectural black edge phenolic partitions, overhead braced. Provide full height partitions in gender neutral bathroom
- Fire Extinguisher Cabinets: *Mill Finished Aluminum*
- Phenolic Lockers: PL2
- Residential Appliances: Black
- Unit Ventilators: *Match adjacent paint color*
- Convection Covers: Match adjacent paint color
- Switch plate/Outlet Covers (not including simulation spaces): *White on White Walls, Stainless on wood walls.* For simulation spaces, refer to A115.
- Operable Partitions: ModernFold Encore, Fabric: DesignTex Atmosphere Frost 111873-671. Whiteboard: to span from 3'-0" AFF to 7'-0" AFF in Classrooms 038 & 039, and floor to ceiling in Rooms 223A and 223B.
- Operable Skyfold Partition into Classrooms 038 / 039 (Add Alternate #1): WS1
- Planters:
  - At Main Street: gardenartisans.com, fiberglass cube planter, 39" x 39" x 39", Hammered Aluminum Finish (Qty. 5)
  - All remaining locations: Magnuson Group, Kaskad Planter, refer to finish plans for layouts

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KEYPLAN

Number	Date	Issued For

BASEMENT/ LOWER LEVEL AND FIRST FLOOR FINISH PLANS

Date 04/07/2022
Scale As indicated
Proj. Number 20287.10
Drawing Number A901

Autodesk Docs://20287 - IONA College School of Health Sciences/A_20287_IONA COLLEGE SCHOOL OF HEALTH SCIENCES_R22.rvt
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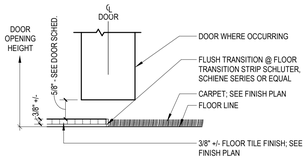
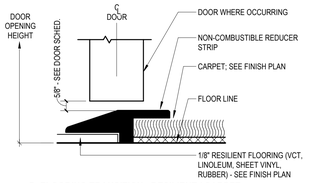
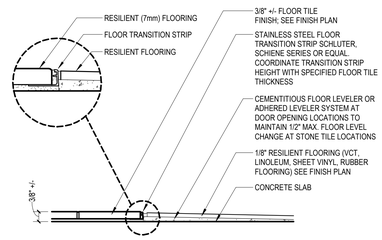


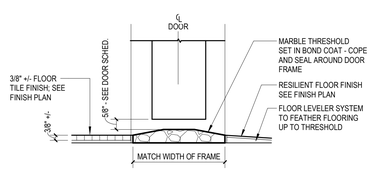
A. FLOORING TRANSITION - TILE / CARPET
NO THRESHOLD



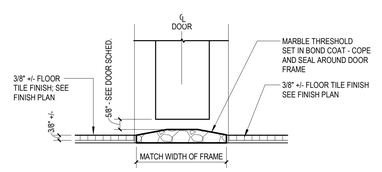
B. FLOORING TRANSITION - RESILIENT / CARPET



C. FLOORING TRANSITION - RESILIENT (7mm) / RESILIENT
NO THRESHOLD

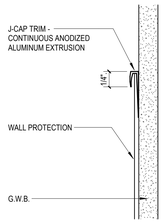


D. FLOORING TRANSITION - MARBLE THRESHOLD - TILE / RESILIENT

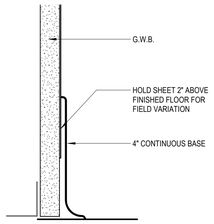


E. FLOORING TRANSITION - MARBLE THRESHOLD - TILE / TILE

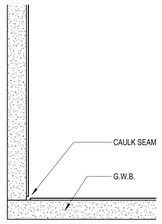
1A FLOORING TRANSITIONS
3" = 1'-0"



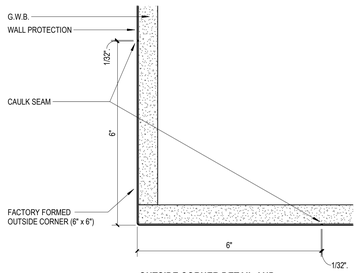
WAINSCOT SECTION DETAIL



BASE DETAIL

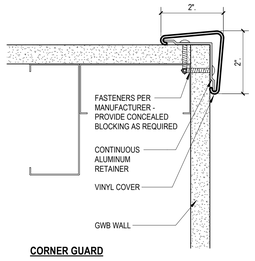


INSIDE CORNER DETAIL

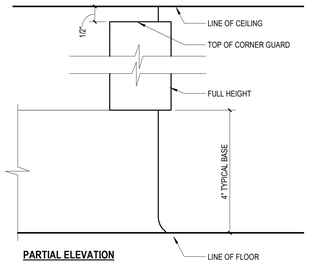


OUTSIDE CORNER DETAIL AND INTERMEDIATE JOINT DETAIL

1B WALL PROTECTION DETAILS (WP)
6" = 1'-0"

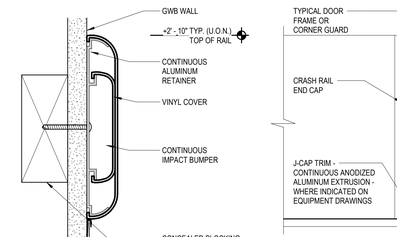


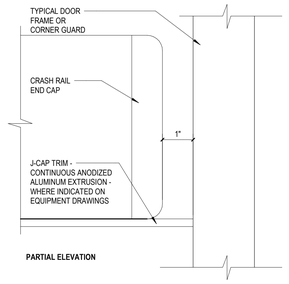
CORNER GUARD



PARTIAL ELEVATION

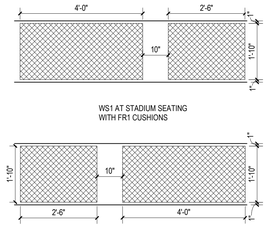
1C CORNER GUARD (CG) - DETAILS
6" = 1'-0"





PARTIAL ELEVATION

4B CRASH RAIL SECTION DETAIL (CR)
6" = 1'-0"



4C STADIUM SEATING CUSHION DETAIL, TYP
1/2" = 1'-0"

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

FINISH PLAN GRAPHIC LEGEND:

- CG — CORNER GUARD PER 1C/A902
- CR1-WP1 — WALL PROTECTION PER 1B & 4B/A902
- CR-1 — CRASH RAIL PER 4B/A902
- XX — FLOOR MATERIAL TAG
- XX — WALL MATERIAL TAG
- CASEWORK TAG
  - XX — COUNTERS
  - XX — CABINETS
- FLOOR TRANSITION PER 1A/A902

FINISH PLAN GENERAL NOTES

GENERAL
1. REFER TO FINISH PRODUCT LIST FOR DEFINITION OF MATERIALS AND SUBSTRATES.
2. REFER TO INTERIOR ELEVATIONS FOR LOCATION OF WALL TILE PATTERNS, WALLCOVERING, ACCENT PAINT LOCATIONS, WAINSCOT TREATMENT, WALL PROTECTION AND SPECIALTY DESIGNS.
3. WHERE DEMOLITION WORK HAS TAKEN PLACE, REPAIR OR REPLACE DAMAGED AREAS WITH NEW FINISHES TO MATCH EXISTING UNLESS OTHERWISE NOTED.
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6. REFER TO SPECIFICATIONS FOR ADDITIONAL MANUFACTURERS.
7. NEW WINDOW SILLS TO BE WOOD TO MATCH EXISTING.
8. ALL ROUND METAL COLUMNS TO BE PAINTED P1a.
9. FIELD FINISH VENTS, GRILLES, ACCESS PANELS, PLUG STRIPS, CABINET UNIT HEATERS, FIRE EXTINGUISHER CABINETS, RADIATORS, ELECTRICAL PANEL BOARDS, DIFFUSERS (IN FINISHED AREAS) TO MATCH SURFACE ON WHICH THEY OCCUR

FLOORS
10. REFER TO FLOOR PATTERN PLANS FOR EXTENT OF FLOOR PATTERNS.
11. IN LOCATIONS WHERE THERE IS AN OPEN SPACE BELOW A MILLWORK COUNTER THE FLOORING SPECIFIED FOR THAT ROOM IS TO CONTINUE INTO THAT OPENING.
12. DIRECTION OF FLOORING INSTALLATION IS AS INDICATED ON FINISH PLANS WITH ARROWS. ARROWS INDICATE DIRECTION OF LINEAR PATTERN AND/OR DIRECTION OF LONGEST SIDE OF TILE.
13. AT TRANSITIONS BETWEEN CARPET AND OTHER FLOOR FINISHES, PROVIDE APPROPRIATE TRANSITION STRIP PER SPECIFICATIONS, TO BE APPROVED BY ARCHITECT. REFER TO TRANSITION DETAILS ON A810.
14. CUT FLOOR TILE AS REQUIRED TO SLOPE TOWARDS FLOOR DRAINS.
15. LOCATE TRANSITIONS IN FLOOR FINISH UNDER CENTERLINE OF DOOR UNO.

WALLS
16. ALL WALLS TO BE PAINTED P1, UNO. REFER TO FINISH PLANS AND ELEVATIONS.
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18. ALL WALLS IN PUBLIC RESTROOMS TO HAVE TILE (PTW1 OR PTW2; REFER TO FINISH PLANS FOR LOCATIONS) TO 7'-2"AFF. UNO. PAINT WALL P7 ABOVE TILE. GENDER NEUTRAL RESTROOM TO HAVE FULL HEIGHT TILED WALLS (PTW1 OR PTW2; REFER TO FINISH PLANS FOR LOCATIONS)
19. AT WWP1 WALLS, PAINT WALL P6 BEHIND WOOD PANELS (ADD ALTERNATE)
20. COLUMNS PAINTED P2

BASE
21. PROVIDE RB-1 AT ALL FLOORING LOCATIONS EXCEPT AT STORAGE, UTILITY AND JANITOR ROOMS, UNO.
22. ALL ELEC, IDF, DATA, SERVER, STAIR WELLS, AND STORAGE ROOMS TO HAVE RB2 UNO.

CEILINGS
23. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS AND EXTENT OF CEILING TYPES.
24. ALL EXPOSED CEILINGS TO BE PAINTED – INCLUDING PLUMBING, STRUCTURAL AND MECHANICAL.
25. AT CONDITIONS WHERE GYP. CEILING IS PAINTED AN ACCENT COLOR, PAINT SOFFIT TO MATCH.

STAIRS
26. ALL STAIRS SHALL BE: RISERS RST1, TREADS: RST1, STRINGER: P8, LANDINGS: RFT1, RAILINGS: P3, UNO.
27. STAIR 1 TO BE RISERS AND TREADS: RST1, STRINGER: P7, LANDINGS RFT1, RAILINGS: GLASS AND STAINLESS STEEL.
28. STAIR ADJACENT TO STADIUM SEATING TO BE: RISER: PTF1, TREADS: PST1, RAILING: STAINLESS STEEL
29. STADIUM SEATING: RISERS TO BE WS1, TREADS TO BE WS1. PROVIDE 30"W X 22"D X 2"H & 48"W X 22"D X 2"H CUSHIONS UPHOLSTERED IN FR1.

DOORS
30. ALL WOOD DOORS TO BE FINISH: WS1
31. ALL HM AND ALUMINUM DOOR AND WINDOW FRAMES, NEW OR EXISTING, TO BE PAINTED TO MATCH P2, UNO. PAINT FINISH SHALL BE SEMI-GLOSS, UNO.

CASEWORK
32. REFER TO CASEWORK FINISH TAGS ON FINISH PLANS.

WALL PROTECTION
33. REFER TO FINISH PLANS FOR LOCATIONS OF WALL PROTECTION.

Finishes for Miscellaneous Items

- Toilet Compartments: Bobrick Duraline 1080/1180, 1/2" panels, 3/4" doors, 8841-58 White Ash, architectural black edge phenolic partitions, overhead braced. Provide full height partitions in gender neutral bathroom
- Fire Extinguisher Cabinets: *Mill Finished Aluminum*
- Phenolic Lockers: PL2
- Residential Appliances: Black
- Unit Ventilators: *Match adjacent paint color*
- Convection Covers: Match adjacent paint color
- Switch plate/Outlet Covers (not including simulation spaces): *White on White Walls, Stainless on wood walls.* For simulation spaces, refer to A115.
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  - At Main Street: gardenartisans.com, fiberglass cube planter, 39" x 39" x 39", Hammered Aluminum Finish (Qty. 5)
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KEYPLAN

Number	Date	Issued For

SECOND FLOOR FINISH PLAN, INTERIOR DETAILS

Date: 04/07/2022
Scale: As indicated
Proj. Number: 20287.10
Drawing Number: A902

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FINISH TYPE	FINISH TYPE DIVISION	REFERENCE I.D.	MANUFACTURER	DESCRIPTION/SIZE	COLOR/PATTERN	TYPICAL LOCATION (refer to finish plans & notes)	REMARKS	REV. NO.	MANUFACTURER CONTACT INFORMATION
FLOOR									
	CP - Sheet Carpeting - Division 09 Section "Sheet Carpeting"	CP1	Bentley Mills	Lusso, Moda Venezia Collection, 8UE38, 12'-6" tufted tip-sheared broadloom, Colorcast, Xtera, High performance backing	Custom 152997-001, 7421C Maroon	Huddle Rooms, Faculty Offices, Control Rooms, Debrief			
	CPT - Tile Carpeting - Division 09 Section "Tile Carpeting"	CPT1	Interface	Flagstone, Human Connections Collection, 128650250G, 50cm x 50cm, Tufted pattern loop, 100% recycled content nylon, 100% solution dyed, Protekt2 stain resistant, CQuestGB backing	Granite 105576	Main Street, Student Lounge & Breakout, Elevated Passageway, Study Carrels	Non Directional Install		
		CPT2	Interface	Kerbstone, Human Connections Collection, 128640250G, 50cm x 50cm, Tufted pattern loop, 100% recycled content nylon, 100% solution dyed, Protekt2 stain resistant, CQuestGB backing	Granite 105576	32-seat classrooms, 14-seat seminar rooms, group therapy, quiet room	Non Directional Install		
		CPT3	Interface	Sett in Stone, Human Connections Collection, 128630250G, 50cm x 50cm, Tufted pattern loop, 100% recycled content nylon, 100% solution dyed, Protekt2 stain resistant, CQuestGB backing	Granite 105576	PE Collaboration, Collaborative area, Faculty Touchdown	Non Directional Install		
		CPT4	Interface	Moss in Stone, Human Connections Collection, 128620250G, 50cm x 50cm, Tufted pattern loop, 100% recycled content nylon, 100% solution dyed, Protekt2 stain resistant, CQuestGB backing	Granite Edge 105564	Main Street	Non Directional Install		
		CPT5	Interface	Moss, Human Connections Collection, 128610250G, 50cm x 50cm, Tufted pattern loop, 100% recycled content nylon, 100% solution dyed, Protekt2 stain resistant, CQuestGB backing	Granite/Moss 105560	Main Street	Non Directional Install		
		CPT6	Interface	Monochrome, 13857025OG, 50cm x 50cm, tufted textured loop, 100% recycled content nylon, 100% solution dyed, protekt2 stain resistant, CQuestGB backing	Lime 103649	Main Street	Monolithic Install		
	ECT - Entrance Carpet Tile - Division 09 Section "Tile Carpeting"	ECT1	Shaw	Path Tile, All Access Collection, 5T034, 24" x 24", multi-level patterned loop, ecosolution q nylon, 100% solution dyed, ecoworx tile, saw soil protection	Sterling Silver	Entry Vestibule			
	PTF - Porcelain Tile Floor 09 Section "Tiling"	PTF1	Creative Materials Corporation	Iseo, 48" x 48", 9mm thick, natural finish	Light Grey	Lobby	Stacked Installation; Grout: Laticrete 78 Sterling Silver		
		PTF2	Creative Materials Corporation	Lava, 12" x 12", 10mm thick, natural finish	Light Grey	Toilet Rooms	Stacked Installation; Grout: Laticrete 34 Sandstone		
	PST - Porcelain Stair Tread Tile Floor 09 Section "Tiling"	PST1	Creative Materials Corporation	Iseo, stair tread 12"x48", bull nose nosing	Light Grey	Stair adjacent to Stadium Steps	Grout: Laticrete 78 Sterling Silver		
	RFT - Resilient Tile Flooring - Division 09 Section "Resilient Flooring"	RFT1	Roppe	Marbelized, 19-11/16" x 19-11/16", 1/8" thick, Hammered Texture	M129 Dolphin	Stairwell Landings			
		RFT2	Forbo	Marmoleum MCT, 13.11" x 13.11", 0.08" thick	3888 Stone	Storage Areas, Janitors, Data, Electrical			
		RFT3	Shaw	Quiet Cover, 0186V, 7.28" x 47.72", 5mm thick, micro-bevel edge	American Cherry	Sim Suite Corridor, 2nd Floor Corridor, IPE Student Lounge & Break area, Vending & Kitchen			
	RST - Resilient Stair Treads and Accessories - Division 09 Section "Resilient Flooring"	RST1	Roppe	Marbelized, Integral Stair Tread and Riser, Hammered Texture	M129 Dolphin	Stairs			
	RSF - Rubber Sheet Flooring - Division 09 Section "Resilient Flooring"	RSF1	Ecore	Infinity Rx, 6' wide, Heterogeneous sheet vinyl fusion bonded to vulcanized composition rubber backing, 7mm thick (2mm thick heterogeneous sheet vinyl with 5mm vulcanized composition rubber base layer), PUR enhanced vinyl wear layer,	Silver Lining 9814	Physical Assesment Lab, Pediatric/Mental Health OT Lab	heat weld seams, use matching weld rod		
		RSF2	Mannington	Burlap, Entwined Collection, Heterogeneous Sheet, .080" thick, .020" quantum guard elite wear layer	Oyster	SP Exam, SIM rooms, Bedside Skills Lab	heat weld seams, use matching weld rod		
BASE									
	RB - Resilient Wall Base - Division 09 Section "Resilient Flooring"	RB1	Tarkett | Johnsonite	Millwork Monument Base	Sterling Silver 69 CG	General, including accent wall surrounding Classorooms 038 & 039, Nurse's Station			
		RB2	Roppe	Traditional 4" Cove Base, TS, 1/8"	129 Dolphin	Mechanical, Storage, Janitor, IT, stairwells			
WALL									
	AWP - Acoustic Wall Panel - Division 09 "Sound Absorbtive Wall Units"	AWP1	NOT USED						
		AWP2	Conwed	Respond A direct-attach wall panels, 4'w, 1"thick, 0.80 NRC	Knoll Textiles, KT Collection, Infinite K2263/1 Sugar	IPE Student Break area, Classrooms 038 & 039			
	P - Interior Painting - Division 09 Section "Interior Painting"	P1	PPG	Acrylic Latex, Eggshell Finish	1001-1 Delicate White	General			
		P2	PPG	Acrylic Latex, Semigloss Finish	1001-1 Delicate White	Round Column Covers			
		P3	PPG	Acrylic Latex, Eggshell Finish	To Match Benjamin Moore 2083-10 Raisin Torte	Red Accent, Stairs	Semigloss finish for stair railings		
		P4	PPG	Acrylic Latex, Eggshell Finish	1153-3 Chalky Blue	Slate Blue Accent			
		P5	PPG	Acrylic Latex, Matte Finish	Manufacturers Standard Ceiling White	Soffits			
		P6	PPG	Acrylic Latex, Eggshell Finish	1001-6 Knights Armor	Behind WWP1	*ADD ALTERNATE #2		
		P7	PPG	Acrylic Latex, Eggshell Finish	1010-4 Stepping Stone	Toilet Rooms, Accent, Stairs	Semigloss finish for stair stringer		
		P8	PPG	Acrylic Latex, Eggshell Finish	1008-5 Roller Coaster	Stairs			
	PTW - Porcelain Tile Wall - Division 09 Section "Tiling" and Division 07 Section "Sintered Ceramic Wall Panels"	PTW1	Creative Materials	Balliol, Spina Decor Mosaic, 10mm thick	Cream	Toilet Room Wet Walls	Grout: Laticrete 44 Bright White		
		PTW2	Creative Materials	Balliol, 6" x 24", 10mm thick	Cream	Toilet Room - General	Grout: Laticrete 44 Bright White		
		PTW3	Deckton	5' x 12' Panels, Exterior Grade	White Marble Look TBD	Exterior panels above entry			
	VWC - Vinyl Wall Covering - Division 09 Section "Wall Coverings"	VWC1	Level Digital Wallcoverings	Fern Shadows, High Performance Textured Vinyl Wallcoverings, Stipple Vinyl Murals + WallMax, Category V, Type II 20 oz, PVC-Vinyl Wallcovering, Class A Fire Rated	Horsetail	IPE Student Lounge, Sim Nurse's Station			
		VWC2	Koroseal	REATEC wood look wallcovering	TC-4265	32 Seat Classroom Surround			
	WWP - Wood Wall Panel - Division 09 "Wood Wall Paneling"	WWP1	9wood	Wood Grill Waves, 8100 Series, 3/4" x 1-3/8", 10 Grilles per foot, 81-1112-10, Class A Fire Rated, Solid Wood Grilles, metal flexi-backer (black finish), Cherry	Stain to Match Architects Sample	32 Seat Classroom Surround	*ADD ALTERNATE #2		
CEILING									
	APC - Acoustical Panel Ceilings - Division 09 Section "Acoustical Ceilings" (Mineral-base and glass-fiber-base panels w/ exposed suspension systems)	APC1	Armstrong	Ultima, NRC 0.75, CAC 35, 1945, 2'x4' x 3/4", 9/16 beveled tegular, .80 NRC, suprafine grid (white)	White	General			
		APC2	Armstrong	Calla, NRC 0.85, CAC 35, 2825, 2' x 4' x 1", 9/16 Square tegular, 0.85 NRC, Siprafine Grid (Grey Stone)	Grey Stone	Student Lounge			
		APC3	Armstrong	Lyra, NRC 0.95, CAC 35, 2'x4' x 3/4", 9/16 beveled tegular, .80 NRC, suprafine grid (white)	White	Classrooms 038 & 039			
	PGB - Painted Gypsum Board Ceiling - Division 09 Section "Interior Painting"	PGB1	-	Painted Gypsum Board		P5	Soffits		
	SAC - Sound Absorbing Ceiling - Division 09 Section "Acoustical Ceilings"	SAC1	Armstrong	Acoustibuilt, seamless acoustical ceiling system, .70 NRC, CAC 48, armstrong drywall and suspension system	2604 White	Acoustical Clouds			
MILLWORK / CASEWORK									
	PL - Plastic Laminate - Division 06 Section "Architectural Wood Casework" and Division 12 Section "Countertops"	PL1	Pionite	Plastic Laminate, Textured/Suede Finish	Honey Maple WM951	General, Cabinets			
		PL2	Wilsonart	Plastic Laminate	Nordic Linen 5015-38	Countrol Room Counters, Counters without Sinks			
	SOSF - Solid Surface - Division 12 Section "Countertops"	SOSF1	Corian	Solid Surface	Granita	Solid Surface Counters, SIM suite Nurse Station Desk, Lavatory Counters			
		SOSF2	Corian	Solid Surface	Evening Prima	SIM suite Nurse's Station Transaction Counter			
	WS - Staining and Transparent Finishing - Division 09 Section "Staining and Transparent Finishing"	WS1	-	Natural Cherry	Stain to Match Architects Sample	stadium seating, doors			
WALL & DOOR PROTECTION									
	CG - Corner Guard - Division 10 Section "Wall and Door Protection"	CG1	InPro	Surface Mounted Corner Guard, G2 Bio Blend, 3" Wings, 90 Degree Corner	0238 Feather	Sim Suite	Install Full Height		
	CR - Crash Rail - Division 10 Section "Wall and Door Protection"	CR1	InPro	1500 Wall Guard, 5" Crash Rail, G2 blend, Silhouette	0238 Feather	Sim Suite Corridor	Refer to details		
		CR2	InPro	Palladium Rub Rail, 4"h, 0.040" thick	0238 Feather	Sim Suite Seating Wall			
	FRL - Fiberglass Reinforced Laminate - Division 06 Section "Fiberglass Reinforced Paneling"	FRL1	Panolam Surface System	Fiber Reinforced laminate, solvent based FRL adhesive to 1/4" plywood backerboard, .088 thick, Class A, Include appropriate color matching trim	Match PL1	SIM Rooms, SP Exam, Physical Assessment Lab, Bedside Skills Lab	Install to 34" AFF		
	WP - Wall Protection - Division 10 Section "Wall and Door Protection"	WP1	InPro	Palladium Rigid Sheet, G2 Bio Blend, 0.040" thick, 4'x8' sheet, include all matching color trim pieces	0238 Feather	Sim Suite Corridor	Install to 34" AFF		
		WP2	Panolam	Fiberglass reinforced plastics, class a, .090", 4' high, include appropriate color-matching molding	gray smooth	Janitor			
VISUAL DISPLAY									
	VD - Visual Display - Division 10 Section "Visual Display Units" (All varieties)	VD1	Moore Co	Sharewall Spline Panel System, porcelain over aluminized steel writable surface, magnetic, include magnetic tray, magnetic eraser & Marker bin at each location	White	General	Provide trim piece at top and at any exposed edge.		
		VD2	Forbo	Linoleum Bulletin Board, bevel exposed edges	2186 Blanched Almond	General			
MISCELLANEOUS									
	CC - Cubicle Curtain - Division 10 Section "Cubicle Curtains and Track"	CC1	Maharam	Sing, 511490, 100% FR Polyester, Railroad, Railroaded repeat: 18.5"v x 72"h	005 Campy	Privacy Curtains			
	DF - Decorative Film Overlay - Division 08 Section "Glazing"	DF1	Level Digital Wallcoverings	Window Film, Meadow, Opcially Clear Polyester Window Film, L91109W, Window Film + White Ink	White on Film	Collaborative Are	Align film with bottom of window		
		DF2	Level Digital Wallcoverings	Window Film, Willow Wisp (standard repeat), Opcially Clear Polyester Window Film, LSWF009-059F, Window Film + White Ink, frosted	White on Film	Lobby	Align film with top of glass railing		
	FR - Fabric Upholstery - Division 12 Section "Upholstered Seat Cushions"	FR1	Architex	Authentic, Palo Alto, Equal Quantities of each color way, random placement install	Tennyson, Seale, Larkspur, Guinda	Stadium Seat Cushions	See detail for more info. To be removable with velcro attachments at underside.		
WINDOW...									
	RS - Roller Shades - Division 12 Section "Window Shades"	RS1	WT Shade	Heliarise H100 Solomount system, Front and rear fascia with bracket end caps, sealed hembar, white clutch, white idler, manual	Ecofabrix 453, 3% open, White/Grey	General			
		RS2	WT Shade	Motorise MR250 SoloMount System, Front and Rear fascia with bracket end caps sealed hembar, white idler, center supports as necessary.	Ecofabrix 453, 3% open, White/Grey	32 Seat Classroom, All South & East Facing windows			
		RS3	WT Shade	Heliarise H100 Solomount system, Front and rear fascia with bracket end caps, sealed hembar, white clutch, white idler, manual	Ecofabrix 784, Diamond Collection, 0% Open, 80 Grey	Therapy room sidelites			

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KEYPLAN

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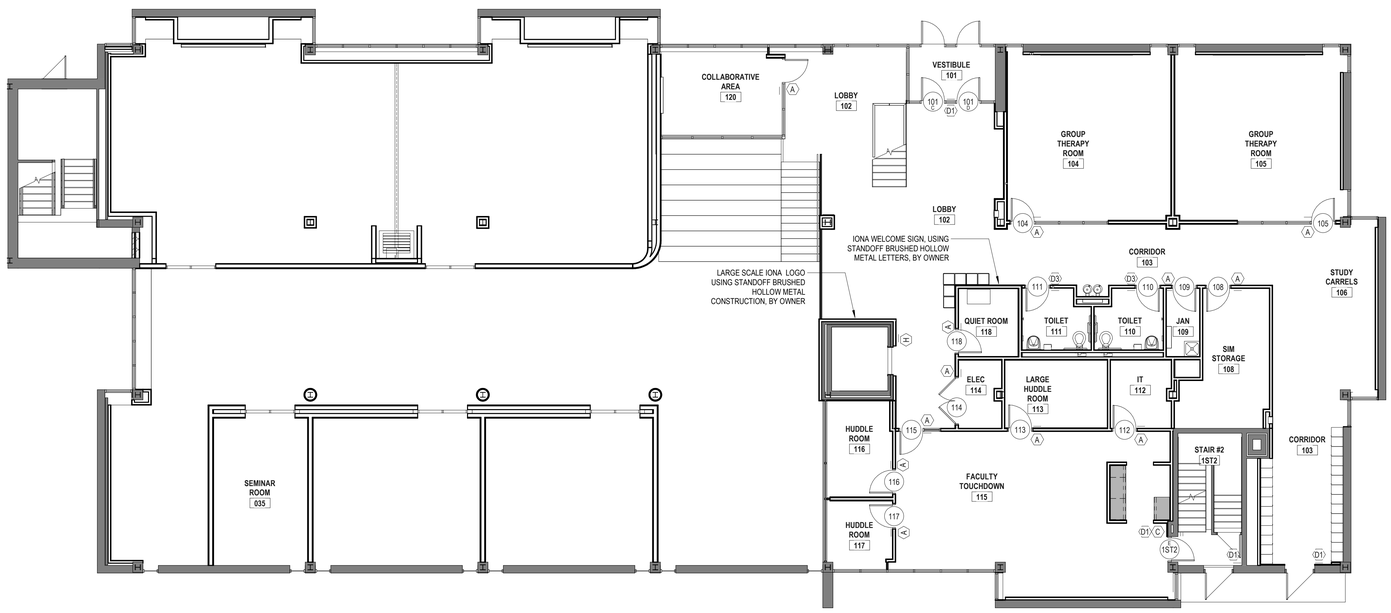
FINISH PRODUCT LIST

Date 04/07/2022

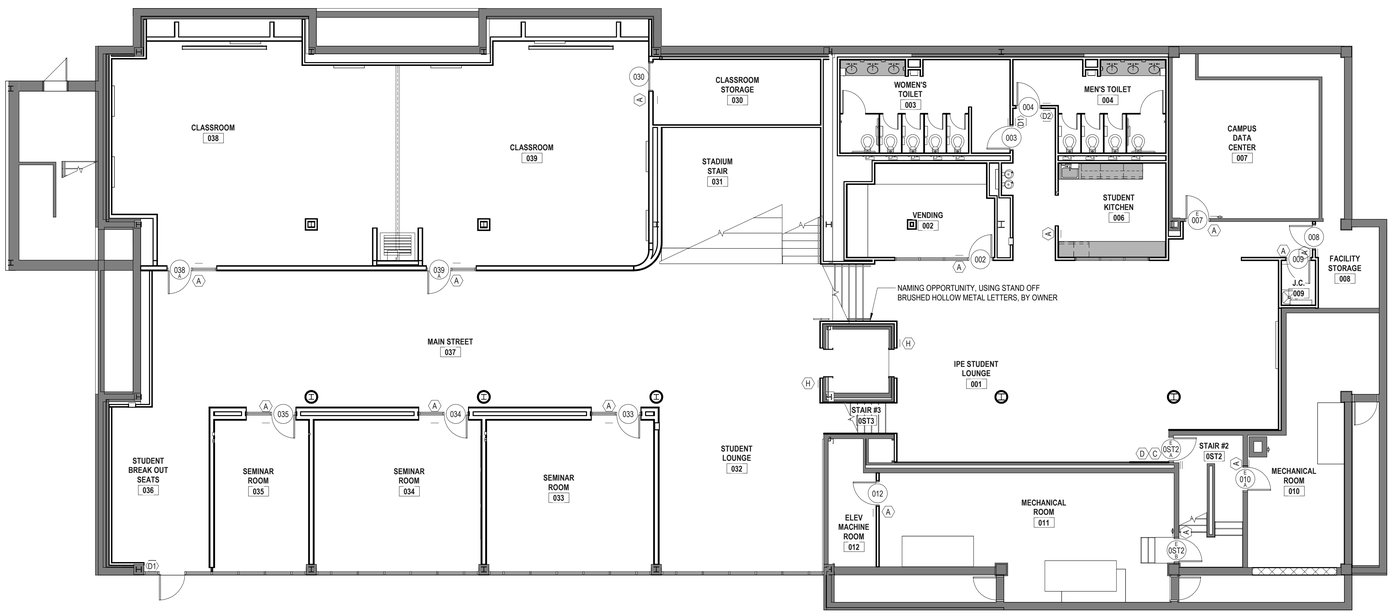
Scale

Proj. Number 20287.10

Drawing Number A910



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



1E BASEMENT / LOWER LEVEL SIGNAGE PLAN
1/8" = 1'-0"

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BASEMENT / LOWER LEVEL AND FIRST FLOOR SIGNAGE PLANS

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Drawing Number A921

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

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SECOND FLOOR SIGNAGE PLAN

Date 04/07/2022
Scale 1/8" = 1'-0"
Proj. Number 20287.10

Drawing Number A922

3.5 SCHEDULE OF SIGN TYPES

Type	Size	Description
A	6"h x 6"w	* Room Identification
B	6"h x 6"w	* Room Identification with Changeable Message Strip
C	6"h x 6"w	* Room Identification with Pictogram (i.e. Men, Women)
D	6"h x 6"w	* Tactile Exit or Directional Sign (with or without Directional Arrow)
D1	6"h x 6"w	* Accessible Sign with Pictogram (i.e. Men, Women) (with or without Directional Arrow)
D2	6"h x 6"w	* Accessible Sign with Pictogram (i.e. Men, Women) (with or without Directional Arrow)
D3	6"h x 6"w	* Accessible Sign with Pictogram (i.e. Men, Women) (with or without Directional Arrow)
E	6"h x 6"w	* Means of Egress Identification at Elevator or Stair
H	6"h x 6"w	* Elevator Access

* Denotes sketch of sign type attached.

3.6 SCHEDULE OF PICTOGRAMS

Type	Size	Description
A	6"h x 6"w clear field	Male
B	6"h x 6"w clear field	Female
C	6"h x 6"w clear field	Male/Female
D	6"h x 6"w clear field	International Symbol of Accessibility
E	Size according to text	Directional Arrow - Direction indicated as follows: (U) = Up; (L) = Left; (R) = Right; (D) = Down
F	6"h x 6"w clear field	International Symbol of Accessibility with Shower
G	6"h x 6"w clear field	Stair
H	6"h x 6"w clear field	Burning Stair

3.7 SIGNAGE SCHEDULE NOTES

General Notes Applicable to the entire project:

1. Signage Fabricator is responsible for the verification and coordination of all signage copy with Owner prior to fabrication. Client must review and approve all sign types, room numbers, messages, and artwork prior to placing order and/or fabrication.
2. All necessary artwork shall be provided/produced by the Signage Fabricator.
3. For the purposes of this schedule it is assumed that the Permanent Room Number will be 3 numeric characters in length, with the possibility of a fourth letter character. Permanent Room Numbers are to be confirmed with the client.
4. Refer to Architectural floor plans for architectural room name, number and door number.
5. Signage Symbol is represented by a Hexagon. Hexagon symbol represents the sign installation location.
6. Refer to Signage Plans by floor for the approximate location of each sign.
7. Signs must be fabricated according to current code requirements regardless of design indicated on Sign Type Sheets.
8. Signs must be installed according to current codes regardless of where symbol is shown on plans.
9. All signs location on a glass surface must have matching backplate provided.
10. Where discrepancies occur fabricator/installer must consult with architect and obtain approval from architect prior to fabrication or installing any sign in question.
11. Typical background color is to match paint color: ____, unless otherwise noted.
12. Typical text color is to be: ____, unless otherwise noted.

SIGNAGE SCHEDULE

Architectural Room Number	Architectural Room Name	Location - Door No.	Sign Type	Permanent Room Number	Signage Message	Pictogram	Comments	Rev. No.
		039A	A		Classroom	-	-	
		038A	A		Classroom	-	-	
		202	A		Storage	-	-	
			H		IN CASE OF EMERGENCY USE STAIRS	-	-	
			H		IN CASE OF EMERGENCY USE STAIRS	-	-	
			D1		EXIT	-	-	
05T2	STAIR #2	E 05T2 A	C		STAIR 2	G	-	
05T2	STAIR #2	E 05T2 A	D		EXIT	-	-	
1ST2	STAIR #2		C		STAIR 2	G	-	
1ST2	STAIR #2		D1		EXIT	-	-	
1ST2	STAIR #2		D1		EXIT	-	-	
002	VENDING	002	A		Vending	-	-	
2ST1	STAIR #1	2ST1	C		STAIR 1	G	-	
2ST1	STAIR #1	2ST1	D		EXIT	-	-	
2ST2	STAIR #2	E 2ST2	C		STAIR 2	G	-	
2ST2	STAIR #2	E 2ST2	D		EXIT	-	-	
2ST4	STAIR #4	E 2ST4	C		STAIR 4	G	-	
2ST4	STAIR #4	E 2ST4	D		EXIT	-	-	
003	WOMEN'S TOILET	003	D1		WOMEN	A,D	-	
004	MEN'S TOILET	004	D2		MEN	B,D	-	
005	PASSAGE	104	A		Group Therapy Room	-	-	
006	STUDENT KITCHEN		A		Student Kitchen	-	-	
007	CAMPUS DATA CENTER	E 007	A		Campus Data Center	-	-	
008	FACILITY STORAGE	008	A		Facility Storage		-	
009	J.C.	009	A		Janitor	-	-	
010	MECHANICAL ROOM	E 010	A		Mechanical	-	-	
011	MECHANICAL ROOM	E 05T2 B	A		Mechanical	-	-	
012	ELEV MACHINE ROOM	012	A		Elevator Machine Room	-	-	
030	CLASSROOM STORAGE	030	A		Storage	-	-	
030	CLASSROOM STORAGE	120	A		Collaborative Area	-	-	
033	SEMINAR ROOM	033	A		Seminar Room	-	-	
034	SEMINAR ROOM	034	A		Seminar Room	-	-	
035	SEMINAR ROOM		A		Seminar Room	-	-	
036	STUDENT BREAK OUT SEATS		D1		EXIT		-	
101	VESTIBULE	101C/101D	D1		EXIT		-	
102	LOBBY		H		IN CASE OF EMERGENCY USE STAIRS	-	-	
103	CORRIDOR		D1		EXIT	-	-	
105	GROUP THERAPY ROOM	105	A		Group Therapy Room	-	-	
108	SIM STORAGE	108	A		Storage	-	-	
109	JAN	109	A		Janitor	-	-	
110	TOILET		D3		RESTROOM	C,D	-	
111	TOILET	111	D3		RESTROOM	C,D	-	
112	IT	112	A		IT	-	-	
113	LARGE HUDDLE ROOM	113	A		Large Huddle Room	-	-	
114	ELEC	114	A		Electrical	-	-	
115	FACULTY TOUCHDOWN	115	A		Faculty Touchdown	-	-	
116	HUDDLE ROOM	116	A		Huddle Room	-	-	
117	HUDDLE ROOM	117	A		Huddle Room	-	-	
118	QUIET ROOM	118	A		Quiet Room	-	-	
201	CORRIDOR	214	A		SIMULATION SUITE	-	-	
201	CORRIDOR		H		IN CASE OF EMERGENCY USE STAIRS	H	-	
203	IPE COLLABORATION SPACE	203	A		IPE Collaboration	-	-	
204	ADL OT LAB	204A	A		OT Lab	-	-	
204	ADL OT LAB	206 B	A		OT Lab	-	-	
205	TOILET	205	D3		RESTROOM	C,D	-	
206	OT STORAGE	206 A	A		OT Storage	-	-	
206	OT STORAGE	206 B	A		OT Storage	-	-	
207	GENDER NEUTRAL TOILET	207	D3		RESTROOM	C,D	-	
208	FLEX OT LAB	208	A		Pediatric OT Lab	-	-	
209	DATA	209	A		Data	-	-	
210	ELEC	210	A		Electrical	-	-	
211	JANITOR	211	A		Janitor	-	-	
212	PHYSICAL ASSESSMENT LAB	212	A		Physical Assessment Lab	-	-	
213	BEDSIDE SKILLS LAB	213	A		Bedside Skills Lab	-	-	
216	LARGE SIM ROOM	216	A		Large SIM Room	-	-	
217	CONTROL	217	A		Control	-	-	
220	STORAGE/ WORK ROOM	220	A		Storage/Work Room	-	-	
221	MEDIUM SIM ROOM	221	A		Medium SIM Room	-	-	
222	CTRL	222	A		Control	-	-	
223A	FLEX SIM ROOM	223 A	A		Flex SIM Room	-	-	
223B	FLEX SIM ROOM	223 B	A		Flex SIM Room	-	-	
224	CTRL	224 A	A		Control	-	-	
224	CTRL		A		Control	-	A	
225	SP EXAM	225	A		Exam Room	-	-	
226	MEDIUM SIM ROOM	226	A		Medium SIM Room	-	-	
227	CTRL	227	A		Control	-	A	
228	SP EXAM	228	A		Exam Room	-	-	
229	FACULTY TOUCHDOWN	229	A		Faculty Touchdown	-	-	
230	SIM OFFICE	230	B		-	-	Name on insert by others	
231	SIM OFFICE	231	B		-	-	Name on insert by others	
232	DEBRIEF ROOM	232	A		Debrief Room	-	-	
233	DEBRIEF ROOM	233	A		Debrief Room	-	A	

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KEYPLAN

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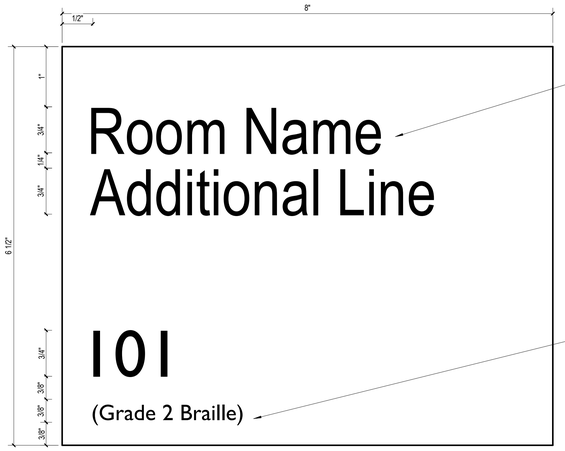
SIGNAGE SCHEDULE AND NOTES

Date 04/07/2022

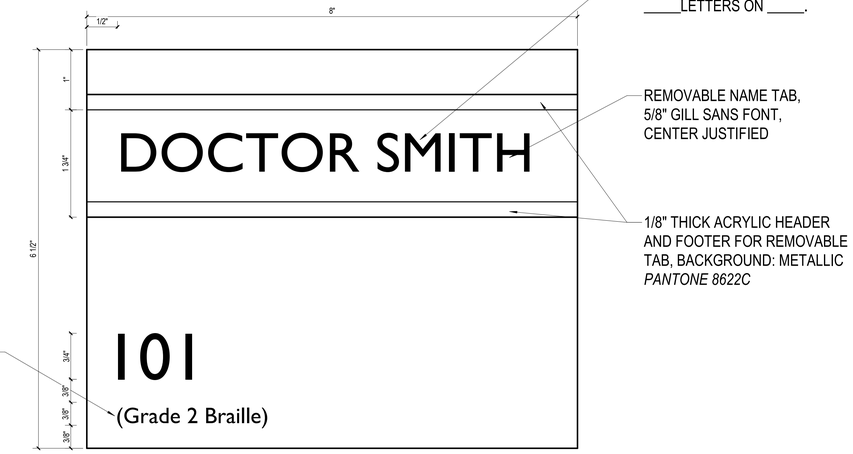
Scale 12" = 1'-0"

Proj. Number 20287.10

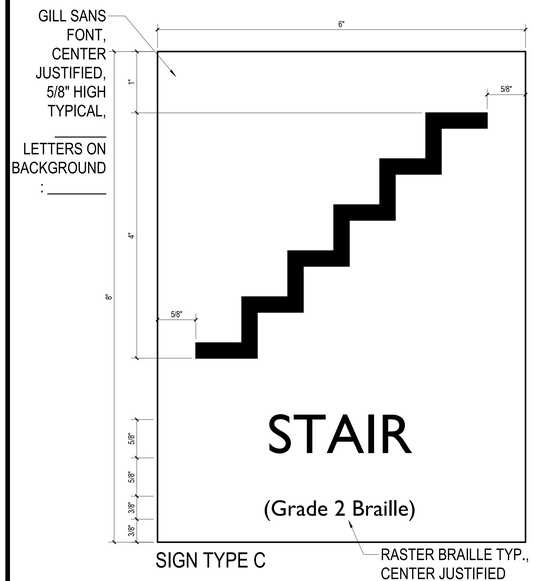
Drawing Number A923



SIGN TYPE A



SIGN TYPE B



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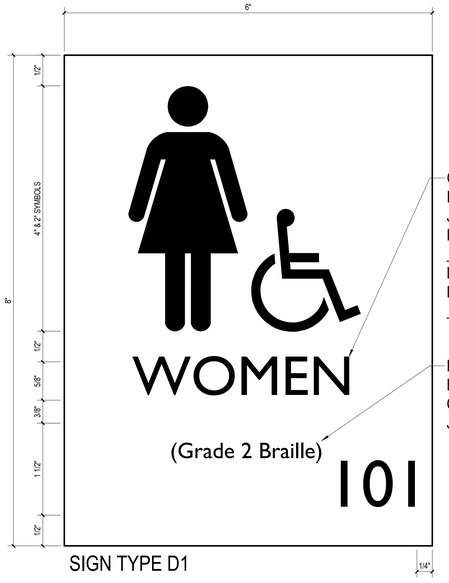

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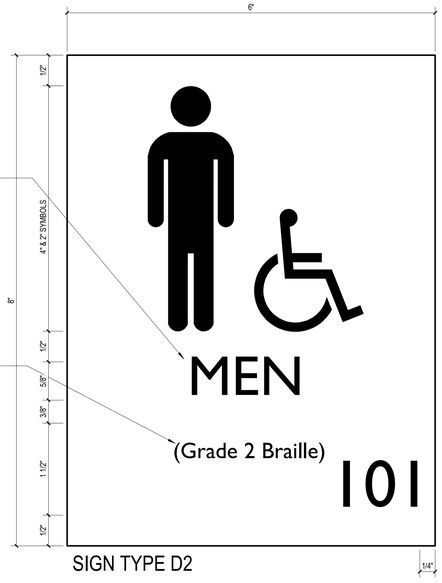

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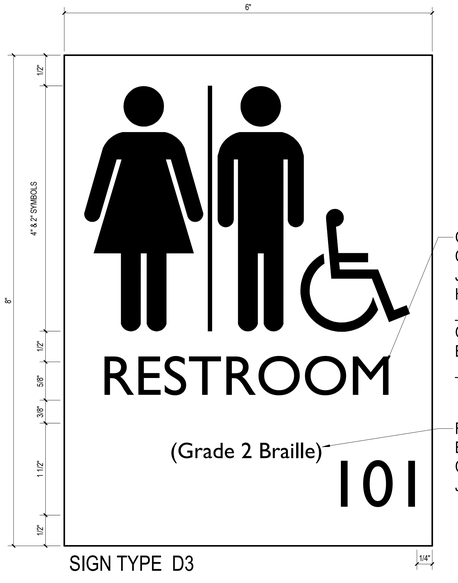

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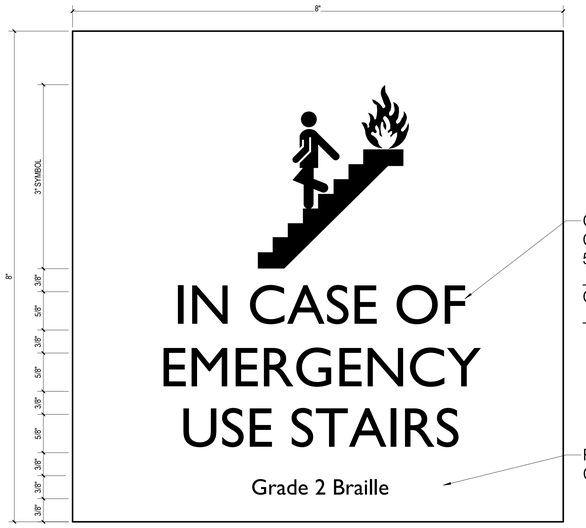

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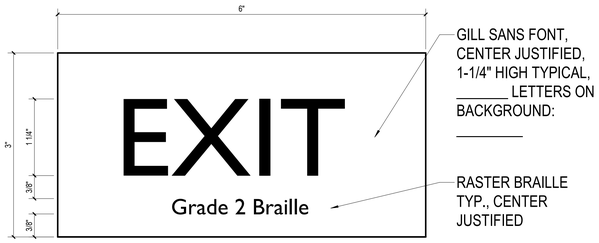

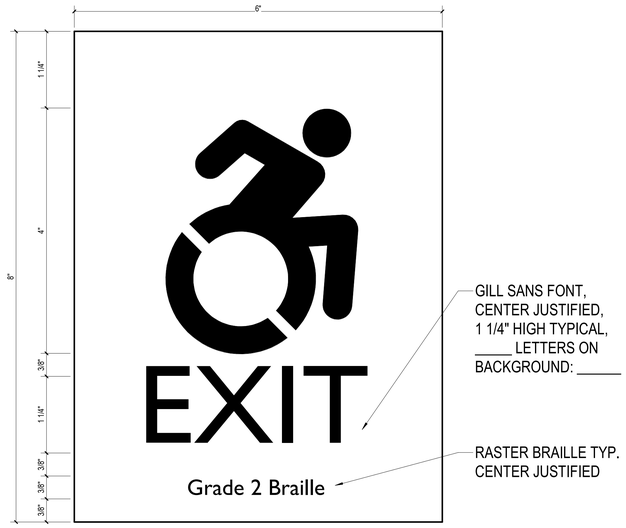

SIGN TYPE D1

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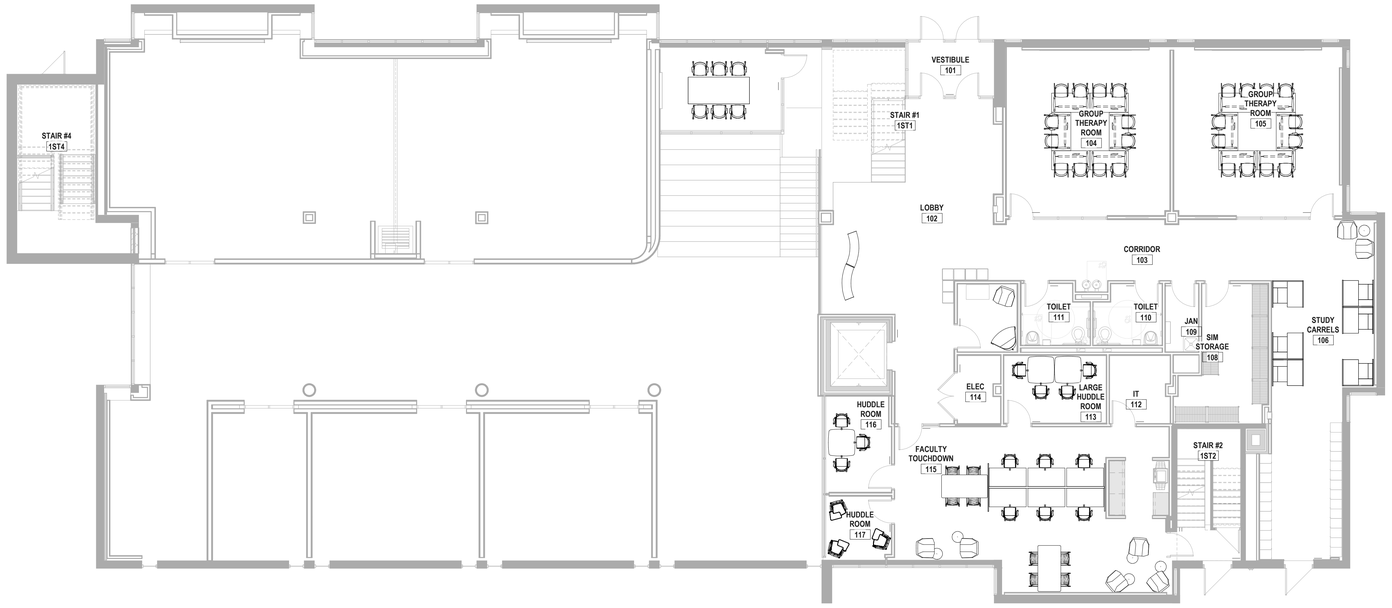
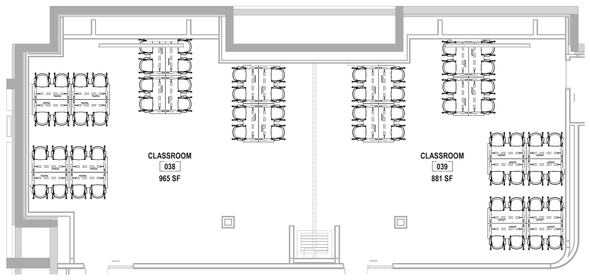
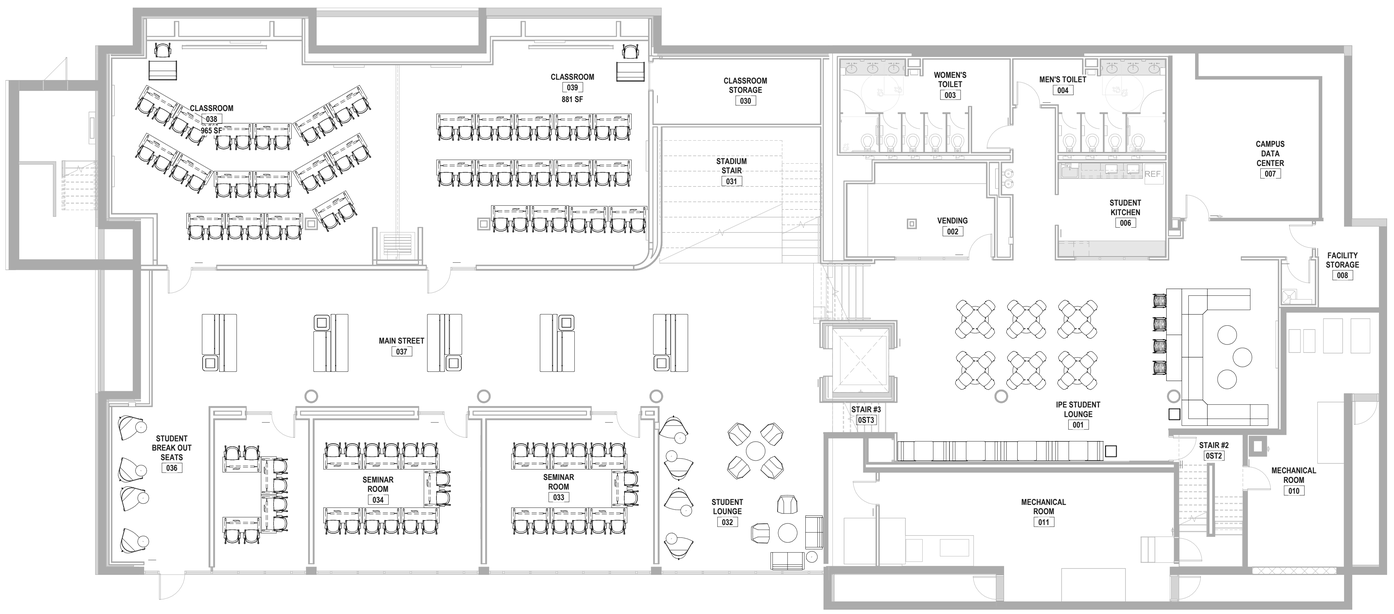


1C FIRST FLOOR FURNITURE PLAN - FOR REFERENCE ONLY
1/8" = 1'-0"



1 CLASSROOMS 038 & 039 FURNITURE PLAN - ALTERNATE LAYOUT FOR REFERENCE ONLY
1/8" = 1'-0"



1E BASEMENT/ LOWER LEVEL FURNITURE PLAN - FOR REFERENCE ONLY
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BASEMENT/ LOWER LEVEL AND FIRST FLOOR FURNITURE PLANS
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Drawing Number I101

1E SECOND FLOOR FURNITURE PLAN - FOR REFERENCE ONLY
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SECOND FLOOR FURNITURE PLAN

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COMMERCIAL SPRINKLER HEAD SCHEDULE

SYMBOL	K-FACTOR	STANDARD (SR) OR QUICK RESPONSE (QR)	UPRIGHT	PENDENT	RECESSED	CONCEALED PENDENT	HORIZONTAL SIDEWALL	WITH GUARD	ABOVE CEILING	DRY	INSTITUTIONAL	EXTENDED COVERAGE	UL-LISTED	FM-APPROVED	MANUFACTURER & MODEL	MAXIMUM LISTED COVERAGE AREA L x W (FT)	MINIMUM REQUIRED PRESSURE (PSI)	GENERAL LOCATION OF SPRINKLER HEADS (REFER TO DRAWINGS FOR ACTUAL LOCATIONS)	NOTE: *ALL FINISHES ARE SUBJECT TO APPROVAL BY ARCHITECT. FINISH*	CLASSIFICATION
◉	5.6	QR				∘							∘	∘	VIKING MODEL# VK462	15 x 15	7 PSI	SPACES & CORRIDORS WITH HUNG CEILINGS	COVER PLATE FACTORY-PAINTED WHITE.	LIGHT & ORDINARY HAZARD
◉ C	5.6	QR				∘							∘	∘	VIKING MODEL# VK462	15 x 15	7 PSI	SPACES & CORRIDORS WITH CLOUD CEILINGS	COVER PLATE FACTORY-PAINTED. COORDINATE COLOR WITH ARCHITECT	LIGHT & ORDINARY HAZARD
◉ D	5.6	QR				∘				∘			∘	∘	VIKING MODEL# VK194	15 x 15	7 PSI	DATA CENTER	COVER PLATE FACTORY-PAINTED. COORDINATE COLOR WITH ARCHITECT	LIGHT & ORDINARY HAZARD
○	5.6	QR	∘										∘	∘	VIKING MODEL# VK300	15 x 15	7 PSI	SPACES & CORRIDORS WITHOUT HUNG CEILINGS	BRASS	LIGHT & ORDINARY HAZARD
☒	5.6	QR	∘					∘					∘	∘	VIKING MODEL# VK300	15 x 15	7 PSI	SPACES & CORRIDORS WITHOUT HUNG CEILINGS	BRASS	LIGHT & ORDINARY HAZARD

NOTES:
1. ALL TYPES OF SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDED SPRINKLER GUARDS IN MECHANICAL ROOMS, ELECTRICAL & TELECOM (I.T.) CLOSETS, UPS ROOMS AND ALL ROOMS WHERE SPRINKLERS MAY BE SUBJECT TO ACCIDENTAL DAMAGE.
3. ALL SPRINKLER HEADS THROUGHOUT SHALL BE OF ORDINARY TEMPERATURE RATING (135 - 170 DEG. F), WITH THE FOLLOWING EXCEPTIONS:
   A. SPECIFIED IN TABLE BELOW AS INTERMEDIATE OR HIGH TEMPERATURE RATING.
   B. SPRINKLER HEADS LOCATED CLOSE TO KITCHEN EQUIPMENT, HEATERS, STEAM PIPE OR LOW-PRESSURE BLOW-OFF VALVE SHALL BE OF THE TEMPERATURE RATING AS REQUIRED BY APPLICABLE EDITION OF NFPA - 13, DRAWINGS, PREPARED BY THE FIRE PROTECTION CONTRACTOR SHALL BE COORDINATED WITH THE HVAC CONTRACTOR AND ALL HVAC EQUIPMENT WHICH CAN AFFECT THE RATING OF THE SPRINKLER HEADS. SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR APPROVAL.
4. ALL SPRINKLER HEAD SYMBOLS NOT SHOWN ON PLANS. REFER TO "GENERAL LOCATION" COLUMN FOR ESTIMATING.
5. SPRINKLER SELECTIONS ARE BASED ON PRODUCTS MANUFACTURED BY VIKING. RELIABLE AND/OR TYCO PRODUCTS SHALL BE CONSIDERED APPROVED EQUAL PRODUCTS AND ARE SUBJECT TO THE APPROVAL OF THE ENGINEER AND ARCHITECT.
6. SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATIONS OF SPRINKLER HEADS WITH STRUCTURAL ELEMENTS AND HVAC DUCTWORK.

FIRE PROTECTION PRE-ACTION SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATIONS	CAPACITY GAL	ELEC DATA HP-VOLTS-PH	REMARKS
FPAC-1	VIKING MODEL # TOTAL PAC 3	C	DATA CENTER	6.5 GAL	1/6HP-120V/1PH	ALL

TYPE:
C = CABINET MOUNTED

REMARKS:
1. PROVIDE WITH AIR SUPPLY TYPE "A" WITH AIR COMPRESSOR MOUNTED INSIDE TOTALPAC 3 CABINET.
2. PROVIDE WITH DEHYDRATOR VIKING 16854.
3. INSTALL PACKAGED DOUBLE INTERLOCK PREACTION SYSTEM ACCORDING TO MANUFACTURERS GUIDELINES.

PIPING LEGEND

SYMBOL	DESCRIPTION
FP-WET or WET	SPRINKLER MAIN (WET)
DRY	SPRINKLER MAIN (DRY)
	PIPE RISE
	PIPE DROP
	PIPE TEE TOWARDS (UP IN PLAN)
	PIPE TEE AWAY (DOWN IN PLAN)
	PIPE DROP AND RUN
	DIRECTION OF FLOW
	BLIND FLANGE
	END CAP
	REDUCER (ECCENTRIC)
	REDUCER (CONCENTRIC)
	FLEXIBLE CONNECTION

VALVE AND SYMBOL LEGEND

SYMBOL	DESCRIPTION
	BALL VALVE
	BALL VALVE WITH HOSE BIBB, CAP & CHAIN (DRAIN VALVES)
	BUTTERFLY VALVE
	GATE VALVE
	OS&Y VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	STRAINER W/BALL VALVE, HOSE BIBB & CAP
	SAFETY RELIEF VALVE
	FLOW SWITCH
	PRESSURE GAUGE
	THERMOMETER
	DOUBLE CHECK VALVE ASSEMBLY
	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY AND DRAIN
	ALARM BELL
	"WET" ALARM VALVE RISER
	"DRY" ALARM VALVE RISER
	"DRY" PREACTION, DELUGE VALVE RISER
	ANGLE VALVE
	SIGHT GLASS
	FIRE DEPARTMENT CONNECTION
	POST INDICATOR VALVE
	FLUSH MOUNTED FIRE PUMP TEST HEADER
	SURFACE MOUNTED FIRE PUMP TEST HEADER
TS	TAMPER SWITCH
PS	PRESSURE SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
FPC	FIRE PUMP CONTROLLER
JPC	JOCKEY PUMP CONTROLLER

GENERAL NOTES

1. THESE GENERAL NOTES ARE APPLICABLE TO ALL FIRE PROTECTION DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL INTENT OF WORK, SEE DETAILS, RISERS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. THE DRAWINGS INDICATE A SUGGESTED SPRINKLER HEAD LAYOUT AND THAT EACH AREA IS COVERED BY SPRINKLER PROTECTION AS REQUIRED BY ALL APPLICABLE STATE OF NEW YORK BUILDING AND FIRE CODES. THE SPRINKLER QUANTITIES SHALL NOT BE COUNTED AS A TAKE OFF OR AS EXACT LOCATIONS. EXACT SPACING, DENSITY, AND LOCATION REQUIREMENTS SHALL BE AS DICTATED BY NFPA 13. FINAL LOCATIONS OF SPRINKLER HEADS SHALL BE COORDINATED WITH THE ARCHITECT.
4. FLOW DATA PERFORMED ON 02/24/2022 AT A HYDRANT LOCATED ON THE EXISTING CAMPUS WATER LOOP WAS RECORDED AS FOLLOWS:
   A. STATIC PRESSURE: 55 PSI
   B. RESIDUAL PRESSURE: 47 PSI
   C. FLOW RATE: 960 GPM
5. THIS FLOW DATA SHALL BE USED AS A GUIDE BY THE CONTRACTOR. THE CONTRACTOR SHALL PERFORM AN ADDITIONAL FLOW TEST TO VERIFY THIS INFORMATION. INFORMATION FROM THE CONTRACTOR'S FLOW TEST SHALL BE USED FOR HYDRAULIC CALCULATIONS.
6. FIRE PROTECTION CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS. HYDRAULIC CALCULATIONS SHALL INCLUDE A SAFETY FACTOR OF 10%. COMBINED INSIDE AND OUTSIDE HOSE STREAM ALLOWANCE FOR HYDRAULIC CALCULATIONS SHALL BE 250 GPM.
7. THE CONTENT OF THESE DRAWINGS IS INTENDED TO SATISFY THE BUILDING CODE REQUIREMENTS FOR CONSTRUCTION DOCUMENTS. WHEN STAMPED AND SEALED BY THE ENGINEER OF RECORD, THEY ARE INTENDED TO BE USED AS PART OF THE BUILDING PERMIT APPLICATION ONLY.
8. FIRE SUPPRESSION SYSTEM SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVED PRIOR TO CONSTRUCTION. PROVIDE A COMPLETE SHOP DRAWING SUBMITTAL INCLUSIVE OF ALL INFORMATION REQUIRED BY STATE BUILDING CODE, NFPA 13 AND THE CONSTRUCTION DOCUMENTS.
9. PREPARE A COMPLETE RECORD SUBMITTAL INCLUSIVE OF ALL FIELD CHANGES AND ALL INFORMATION REQUIRED BY THE STATE BUILDING CODE AND CONSTRUCTION DOCUMENTS.
10. SHOP DRAWINGS AND RECORD DRAWING SUBMITTALS SHALL BE PREPARED BY THE CONTRACTORS QUALIFIED DESIGNER AND SHALL INDICATE THE DESIGNER'S NICET CERTIFICATION NUMBER OR PROFESSIONAL ENGINEERING SEAL AND SIGNATURE.
11. THE ENGINEER OF RECORD WILL NOT SIGN AND SEAL SHOP DRAWINGS OR RECORD DRAWINGS PREPARED BY THE CONTRACTOR. WHERE THE AUTHORITY HAVING JURISDUCTION REQUIRES SHOP DRAWING OR RECORD DRAWING SUBMITTALS TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, THE SUBMITTALS SHALL BE PREPARED BY A QUALIFIED PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR.
12. THE SHOP DRAWINGS, SUPPLEMENTAL CALCULATIONS AND MATERIAL SUBMITTALS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO SUBMITTAL TO THE STATE DIVISION OF ENGINEERING AND BUILDINGS.
13. INSTALLATION OF SPRINKLERS SHALL BE BASED ON THE DESIGN CRITERIA BELOW

SPRINKLER SYSTEM DESIGN CRITERIA - NFPA 13

AREA	OCCUPANCY CLASSIFICATION	DENSITY (GPM/SF)	AREA OF APPLICATION (SF)	MAX. AREA PER SPRINKLER (SF)
MECH/ELECTRIC ROOMS	ORDINARY HAZARD 1	0.15	1500	130
DATA ROOMS	ORDINARY HAZARD 1	0.15	1500	130
STORAGE ROOMS	ORDINARY HAZARD 1	0.15	1500	130
REMAINDER OF BUILDING	LIGHT HAZARD	0.10	1500	225

FIRE PROTECTION ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
CR	CORROSION RESISTANT
D	DRY
DCV	DOUBLE CHECK VALVE
EC	EXTENDED COVERAGE
ELEV	ELEVATION
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FD	FIRE DEPARTMENT
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
FP	FIRE PROTECTION
FPC	FIRE PUMP CONTROLLER
FPM	FEET PER MINUTE
FS	FLOW SWITCH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	TOTAL DEVELOPED HEAD
HTC	HIGH TEMPERATURE CLASSIFICATION
HVC	HOSE VALVE CABINET
ITC	INTERMEDIATE TEMPERATURE CLASSIFICATION
JP	JOCKEY PUMP
JPC	JOCKEY PUMP CONTROLLER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OS&Y	OUTSIDE SCREW AND YOLK
PA	PREACTION
PAC	PREACTION ALARM VALVE CABINET
PD	PRESSURE DROP
PIV	PRESSURE INDICATOR VALVE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
SS	SUPERVISORY SWITCH
TS	TAMPER SWITCH
TYP	TYPICAL
V	VOLTS
VEL	VELOCITY
WG	WIRE GUARD

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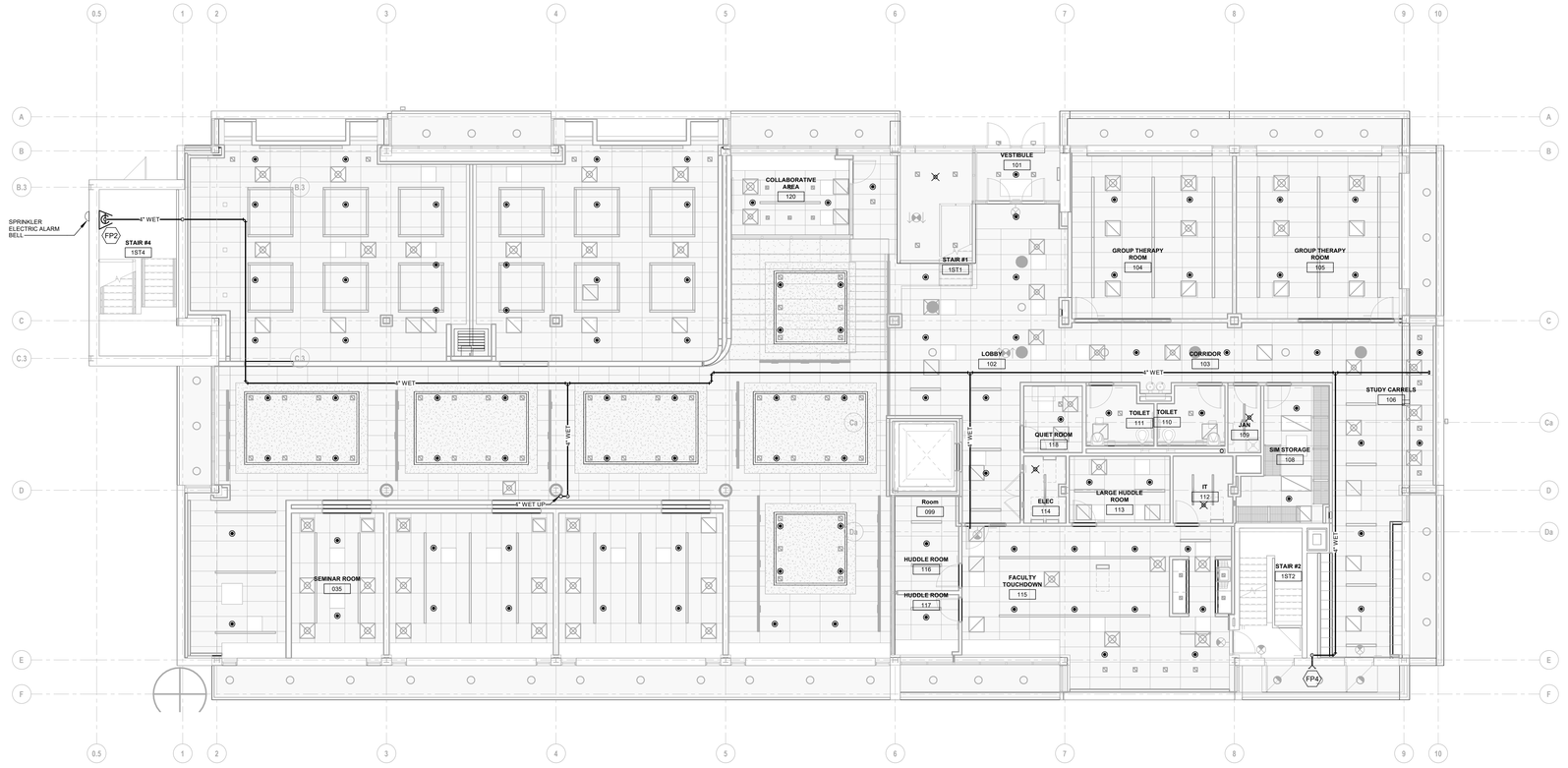
FIRE PROTECTION ABBREVIATIONS, NOTES AND SYMBOLS

Date: 04/07/2022
Scale: As indicated
Proj. Number: 20287.10
Drawing Number: FP000



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

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

FIRE PROTECTION KEY NOTES

FP1	PROVIDE 6" FIRE SERVICE BELOW SLAB FROM WATER MAIN IN STREET. FIRE SERVICE TO RISE UP INTO BUILDING IN STAIRWELL.
FP2	REFER TO DETAIL #1/FP500 FOR FIRE SERVICE ALARM RISER DETAIL.
FP3	PROVIDE PREACTION SYSTEM. FPAC-1. REFER TO DETAIL #4/FP500.
FP4	PROVIDE 4" FP WET SUPPLY TO FIRE DEPARTMENT CONNECTION. REFER TO DETAILS #2/FP500 AND #3/FP500.
FP5	THIS AREA HAS A DOUBLE HEIGHT CEILING. REFER TO "FIRE PROTECTION FIRST LEVEL FLOOR PLAN" FOR SPRINKLER LAYOUT IN THIS ROOM.
FP6	PROVIDE UPRIGHT SPRINKLER BELOW FIRST FLOOR LANDING.

NOTE: THESE KEYNOTES ARE APPLICABLE TO THIS DRAWING ONLY.

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FIRE PROTECTION BASEMENT/ LOWER LEVEL AND FIRST FLOOR PLANS

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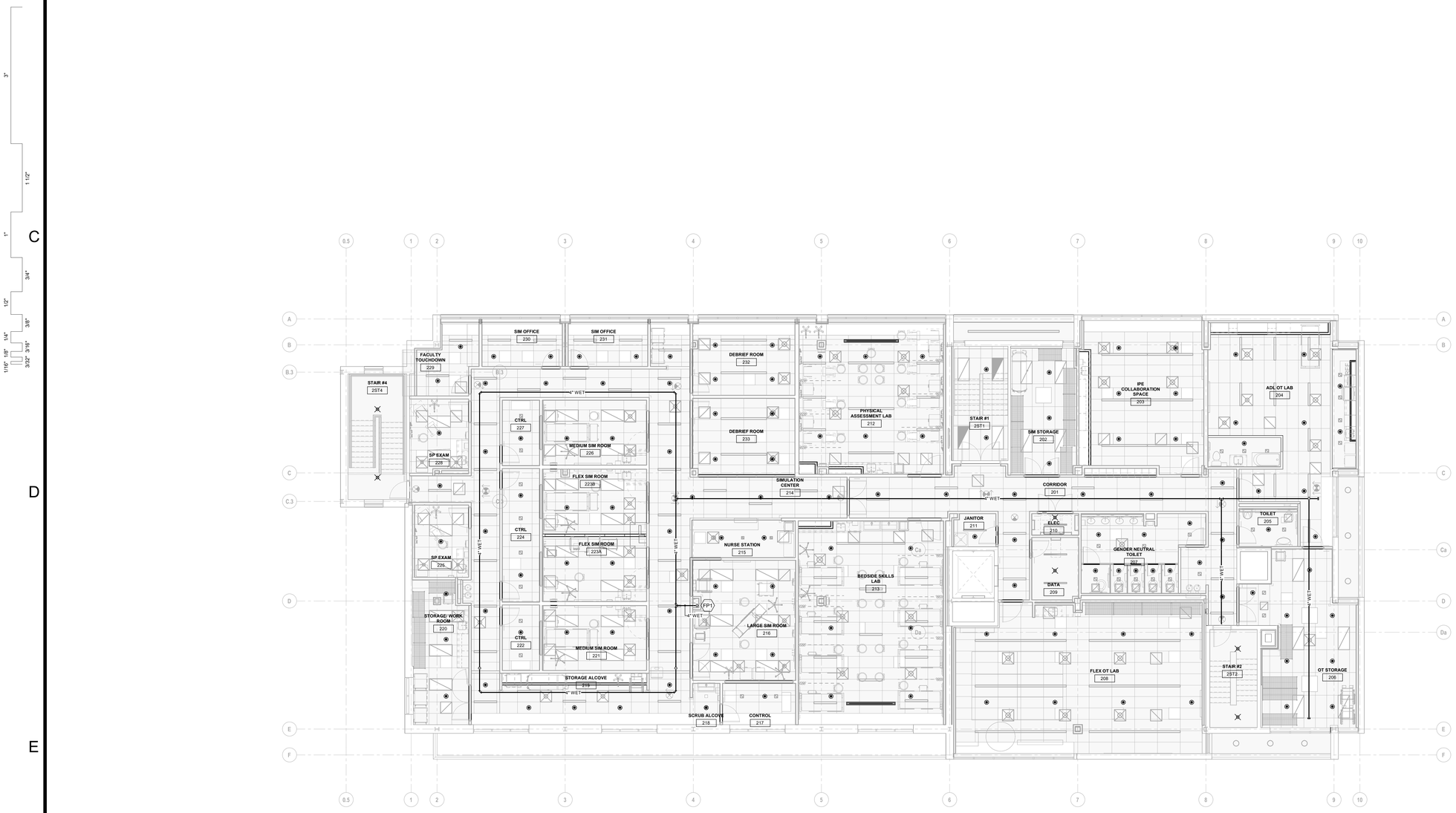
Proj. Number: 20287.10
Drawing Number: FP101

FIRE PROTECTION KEY NOTES
(FP1) PROVIDE 4" WET FROM FLOOR BELOW.
NOTE: THESE KEYNOTES ARE APPLICABLE TO THIS DRAWING ONLY.



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

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FIRE PROTECTION SECOND FLOOR PLAN

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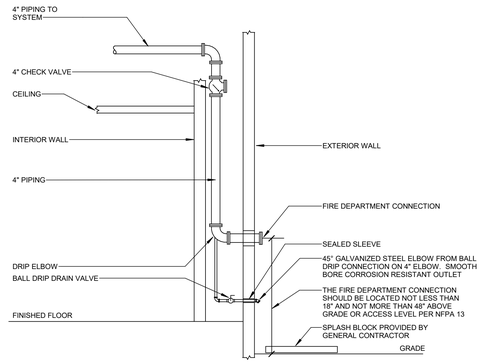
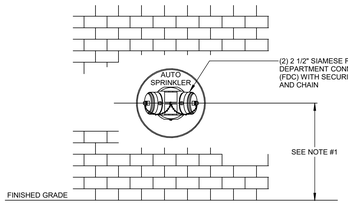
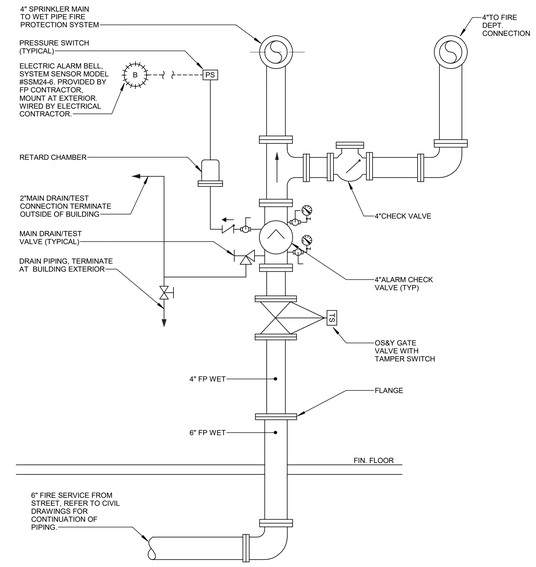


3 FIRE DEPT. CONNECTION DETAIL #2
NTS

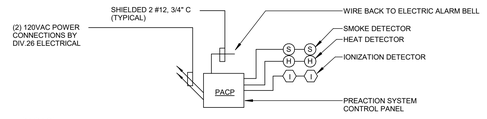


FIRE DEPARTMENT CONNECTION NOTES:
1. FIRE PROTECTION CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT AND LOCATION OF THE FDC WITH THE LOCAL FIRE DEPARTMENT'S REQUIREMENTS.
2. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE CONNECTION THREAD TYPE WITH THE LOCAL FIRE DEPARTMENT FOR COMPARABILITY.
3. THE FDC FINISH SHALL BE COORDINATED WITH ARCHITECT AND PROVIDED WITH FOLLOWING LETTERING: "AUTO-SPRINKLER"

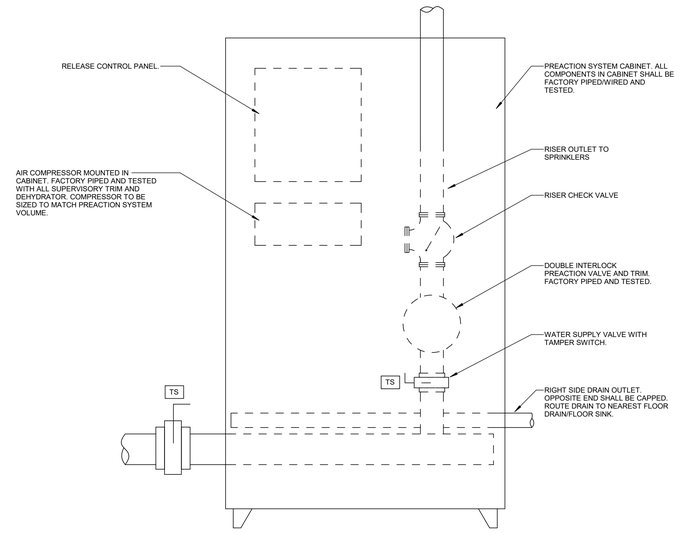
2 FIRE DEPT. CONNECTION DETAIL #1
NTS



1 FIRE SERVICE DETAIL
NTS



WIRING NOTE:
1. ALL LOW VOLTAGE ELECTRICAL CONNECTIONS SHALL BE MADE BY DIV. 28 FIRE ALARM CONTRACTOR UNDER THE SUPERVISION OF THE PRE-ACTION SYSTEM INSTALLER. COORDINATE EXACT LOCATIONS AND QUANTITY OF ALL NOTIFICATION APPLIANCES AND DETECTION DEVICES WITH DIV.28 PRIOR TO INSTALLATION.



4 PREACTION SYSTEM DETAIL
NTS

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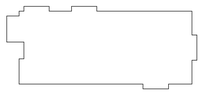

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FIRE PROTECTION DETAILS

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Drawing Number FP500

DEMOLITION NOTES

1. THE PLUMBING CONTRACTOR SHALL REMOVE ALL PLUMBING FIXTURES, CARRIERS, TRIM, ACCESSORIES, EQUIPMENT, FLOOR DRAINS AND PIPING AS SHOWN OR INDICATED ON THE DRAWINGS.
2. ALL PIPING TO BE REMOVED SHALL BE REMOVED COMPLETELY OR AS OTHERWISE SHOWN OR INDICATED ON DRAWINGS. ALL PIPE HANGERS, SLEEVES, RISER CLAMPS, ETC. SHALL BE REMOVED COMPLETELY WITH PIPING. NO EXISTING HANGER SYSTEMS SHALL BE REUSED FOR NEW PIPING.
3. ALL PIPING TO BE REMOVED SHALL BE REMOVED TO BELOW FLOOR. ABOVE CEILING OR IN WALLS BACK TO MAINS OR SHUT OFF VALVES AT MAINS AND PROPERLY CAPPED PER CODE WITHOUT LEAVING DEAD ENDED PIPING.
4. NO EQUIPMENT OR DEVICES THAT HAVE BEEN DISCONNECTED AND OR ABANDONED SHALL REMAIN.
5. ALL EXISTING PIPING AND EQUIPMENT SHOWN HAS BEEN TAKEN FROM THE BEST AVAILABLE EXISTING INFORMATION. THE DRAWINGS ARE DIAGRAMMATIC AND ALL FIXTURES, PIPING, AND DEVICES MAY NOT BE SHOWN. THE INTENT OF THESE DRAWINGS IS THAT IN ALL AREAS OF RENOVATION THAT THEY ARE REMOVED, WHETHER OR NOT SHOWN (UNLESS INDICATED TO REMAIN).
6. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS AND CONDITIONS IN AREAS OF RENOVATION.
7. ANY SYSTEMS OR EQUIPMENT TO REMAIN ACTIVE DURING RENOVATION SHALL BE KEPT IN OPERATION BY PROVIDING TEMPORARY PIPING CONNECTIONS AS REQUIRED UNTIL NEW SYSTEMS ARE INSTALLED AND OPERATIONAL.
8. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE OWNER, CM, AND OR GENERAL CONTRACTOR ANY AND ALL PHASING OF THE PLUMBING DEMOLITION WORK IN ORDER TO SATISFY THE CONSTRUCTION SCHEDULE AND OWNERS OCCUPANCY REQUIREMENTS.
9. THE PLUMBING CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DEMOLITON DRAWINGS AS PART OF THIS CONTRACT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
10. ALL SERVICE INTERUPTIONS SHALL BE COORDINATED AND APPROVED WITH THE OWNER A MINIMUM OF 5 DAYS IN ADVANCE PRIOR TO COMMENCEMENT OF ANY WORK.
11. THE PLUMBING CONTRACTOR SHALL COORDINATE THEIR DEMOLITION WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID CONFLICTS.
12. ANY FIXTURE OR EQUIPMENT TO BE REMOVED AND REUSED OR RETURNED TO OWNER AT OWNERS REQUEST OR AS INDICATED ON DRAWINGS SHALL BE CAREFULLY REMOVED AND STORED TO PREVENT DAMAGE.

GENERAL NOTES

GENERAL

1. GENERAL NOTES, SYMBOLS AND DETAILS ARE APPLICABLE TO ALL DRAWINGS WITHIN DIVISION 22.
2. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE CAPACITY, SIZE, APPROXIMATE LOCATION AND GENERAL ARRANGEMENT. DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE INFORMATION AND HARDWARE AS NECESSARY TO COORDINATE CONCRETE PADS AND STEEL PLATFORMS REQUIRED FOR PLUMBING WORK.
5. COORDINATE ROOF AND WALL PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. COORDINATE SLAB PENETRATIONS WITH WORK OF OTHER SECTIONS.
6. RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.
7. COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS AND WITH ALL TRADES INVOLVED. PROVIDE OFFSETS IN PIPING AROUND OBSTRUCTIONS.
8. NOT ALL ACCESS DOORS HAVE BEEN SHOWN ON THE PLANS FOR CLARITY. PROVIDE ACCESS PANELS THROUGH BUILDING ASSEMBLIES TO SERVICE AND MAINTAIN EQUIPMENT UNLESS SUCH EQUIPMENT IS INSTALLED IN EXPOSED LOCATIONS OR ABOVE LAY-IN CEILINGS. COORDINATE THE LOCATION OF ACCESS DOORS AND PANELS AND VERIFY THE EXACT QUANTITY, SIZE, AND LOCATIONS AFTER THE SYSTEMS AND EQUIPMENT REQUIRING ACCESS HAVE BEEN INSTALLED AND PRIOR TO THE CLOSURE OF THE AFFECTED CEILINGS AND BUILDING ASSEMBLIES. OBTAIN APPROVAL FOR ALL PANEL LOCATIONS FROM ARCHITECT.
9. AT SUBSTANTIAL COMPLETION, THE FOLLOWING ITEMS, NEW OR EXISTING, SHALL BE FULLY AND REASONABLY ACCESSIBLE: CONTROL BOXES, JUNCTION BOXES, VALVES, DDC CONTROL BOXES, ELECTRICAL PANELS, CLEAN OUTS, DISCONNECT SWITCHES AND ELEMENTS OF EQUIPMENT REQUIRING MAINTENANCE. "FULLY AND REASONABLY ACCESSIBLE" SHALL BE DEFINED AS NATIONAL ELECTRIC CODE REQUIRED CLEARANCE FOR POWERED EQUIPMENT AND CAPABLE OF BEING ACCESSED OR SERVICED WITHOUT REMOVING, MODIFYING OR DISTORTING OTHER COMPONENTS OF THE WORK. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE FOR ALL EQUIPMENT.
10. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE FITTINGS TO TRANSITION TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
11. IN COMPLIANCE WITH THE FEDERAL SAFE WATER DRINKING ACT (SWDA), THE CONTRACTOR SHALL NOT PROVIDE ANY COMPONENTS IN THE DOMESTIC WATER SYSTEM THAT CONTAIN MORE THAN 0.25% LEAD ON ANY WETTED PARTS. THE CONTRACTOR SHALL PROVIDE THE LEAD FREE EQUIVALENT OF ANY EQUIPMENT SPECIFIED AND PROVIDE A LETTER CERTIFYING THAT ALL PLUMBING PRODUCTS PROVIDED MEET THIS REGULATION.
12. ALL PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE PLUMBING AND FUEL GAS CODE. THE CONTRACTOR SHALL COORDINATE WITH THE INSPECTOR FOR ALL PLUMBING INSPECTIONS.
13. IN THE EVENT THAT THERE ARE DISCREPANCIES BETWEEN PIPE SIZES SHOWN ON THE PLANS, DETAILS AND DIAGRAMS, THE LARGER PIPE SIZE SHALL BE FOLLOWED.

PIPING SYSTEM SPECIFIC NOTES:

1. PROVIDE ESCUTCHEONS AT EXPOSED PIPE PENETRATIONS OF CEILINGS AND WALLS
2. TOPS OF FLOOR DRAINS SHALL BE FLUSH WITH FINISHED FLOOR.
3. PROVIDE SHUT-OFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT.
4. SUPPORT PIPING FROM STRUCTURE. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
5. PROVIDE DRAIN WITH BALL VALVE, HOSE END VACUUM BREAKER, CAP AND CHAIN AT DOMESTIC WATER LOW POINTS AND PITCH PIPING TO DRAIN.
6. PROVIDE ACCESSIBLE CLEANOUTS AT THE BASE OF ALL STACKS.
7. ALL PLUMBING PIPING AND DRAINS SHALL BE PROTECTED FROM DEBRIS AND KEPT CLEAR OF BLOCKAGE DURING CONSTRUCTION.
8. PROVIDE DIELECTRIC FITTINGS WHEN JOINING PIPES OF DISSIMILAR METALS.

NATURAL GAS NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPLICABLE PERMITS FOR THE WORK.
2. PROVIDE DRIP POCKET AT THE BOTTOM OF ALL GAS RISERS.
3. ALL GAS PIPING TO COMPLY WITH STATE AND LOCAL CODES.
4. GAS PIPING AND SAFETY DEVICES SHALL CONFORM TO THE REQUIREMENTS OF NFPA 54 AND SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE STATE REGULATORY BOARD.
5. PROVIDE GAS COCK VALVE AT EACH BRANCH RUNOUT FROM THE MAIN RISER SERVING GAS OUTLETS AND AT EACH INDIVIDUAL GAS FIXTURE.
6. GAS PIPING SHALL BE TESTED ACCORDING TO THE STATE FUEL GAS CODE AND NATIONAL CODE PROVISIONS OF THE LOCAL PLUMBING INSPECTOR. IF INSPECTION AND TEST SHOWS DEFECTS, DEFECTIVE WORK AND MATERIAL SHALL BE REPLACED AND INSPECTION AND TEST SHALL BE REDONE.

FIRESTOPPING NOTES:

1. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS INCLUDING BOTH EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUITS AND OTHER PENETRATING ITEMS. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALL RATINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

VALVE AND SYMBOL LEGEND

SYMBOL	DESCRIPTION
	BALL VALVE
	BALL VALVE WITH HOSE BIBB, CAP & CHAIN (DRAIN VALVES)
	BUTTERFLY VALVE
	GLOBE VALVE
	GATE VALVE
	OS&Y VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	Y-PATTERN STRAINER
	SOLENOID VALVE
	AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR
	AUTOMATIC CONTROL VALVE, TWO POSITION ACTUATOR
	THREE WAY AUTOMATIC CONTROL VALVE, MODULATING ACTUATOR
	THREE WAY AUTOMATIC CONTROL VALVE, TWO POSITION ACTUATOR
	COMBINATION SHUT OFF/BALANCING VALVE (CIRCUIT SETTER)
	SAFETY RELIEF VALVE
	PRESSURE GAUGE
	THERMOMETER
	DOUBLE CHECK VALVE ASSEMBLY
	REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY AND DRAIN
	GATE VALVE IN ROAD CURB BOX
	BACKWATER VALVE
	PUMP
M	WATER METER
	FLOOR DRAIN / FLOOR SINK / AREA DRAIN WITH PIPE TRAP
	ROOF / OVERFLOW DRAIN
TP	TRAP PRIMER
GM	GAS METER
	WATER HAMMER ARRESTOR
	VENT THRU ROOF
	ADA ACCESSIBLE FIXTURE
	CONNECT TO EXISTING

PIPING LEGEND

SYMBOL	DESCRIPTION
	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATION
SAN	SANITARY DRAIN/WASTE ABOVE FLOOR
SAN	SANITARY DRAIN/WASTE BELOW FLOOR
V	VENT
ST	STORM ABOVE FLOOR (PRIMARY)
ST	STORM BURIED (PRIMARY)
SST	STORM ABOVE FLOOR (SECONDARY)
NG	NATURAL GAS
MVAC	MEDICAL VACUUM
MA	MEDICAL AIR
MA (SIM O2)	MEDICAL AIR (SIMULATED OXYGEN)
FM	FORCE MAIN ABOVE FLOOR
FM	FORCE MAIN BELOW FLOOR
	PIPE RISE
	PIPE DROP
	PIPE TEE TOWARDS (UP IN PLAN)
	PIPE TEE AWAY (DOWN IN PLAN)
	PIPE DROP AND RUN
	DIRECTION OF FLOW
	PIPE TRAP
	DIRT LEG
CO	CLEANOUT
	UNION OR FLANGE
	BLIND FLANGE
	END CAP
	REDUCER (ECCENTRIC)
	REDUCER (CONCENTRIC)

GENERAL ABBREVIATIONS

AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
AV	ACID VENT
AVTR	ACID VENT THRU ROOF
AW	ACID WASTE
BAS	BUILDING AUTOMATION SYSTEM
BTU	BRITISH THERMAL UNIT
BTUH	BTU / HOUR
BOP	BOTTOM OF PIPE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CO	CLEANOUT
CW	COLD WATER
DIA	DIAMETER
DN	DOWN
DSN	DOWN SPOUT NOZZLE
DW	DIRECT WASTE
ELEC	ELECTRICAL
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWS	EMERGENCY EYEWASH/SHOWER
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FFE	FINISHED FLOOR ELEVATION
FGCO	FINISHED GRADE CLEANOUT
FLA	FULL LOAD AMPS
FLD	FLOOR DRAIN
FS	FLOOR SINK
FT	FEET
FT WG	FEET HEAD
G	GAS
GALL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSV	GAS SOLENOID VALVE
GW	GREASE WASTE
GV	GAS VENT
HB	HOSE BIB
HW	HOT WATER
HD	HEAD
HP	HORSEPOWER
HZ	HERTZ
HWR	HOT WATER RECIRCULATION
INT	INTERCEPTOR
INV ELEV	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KILOWATT
LAV	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
NIC	NOT IN CONTRACT
NG	NATURAL GAS
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN
OW	OIL WASTE
PCD	PUMPED CONDENSATE DRAIN
PLBG	PLUMBING
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RTU	ROOFTOP UNIT
SAN	SANITARY
SQFT / SF	SQUARE FEET
SS	SOIL STACK
ST	STORM
SST	SECONDARY STORM
TEMP	TEMPERATURE
TW	TEMPERED WATER
TYP	TYPICAL
V	VENT
VS	VENT STACK
VTR	VENT THRU ROOF
W	WASTE
WS	WASTE STACK
W&V	WASTE AND VENT

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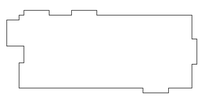


KEYPLAN

Number	Date	Issued For

PLUMBING ABBREVIATIONS, NOTES AND SYMBOLS

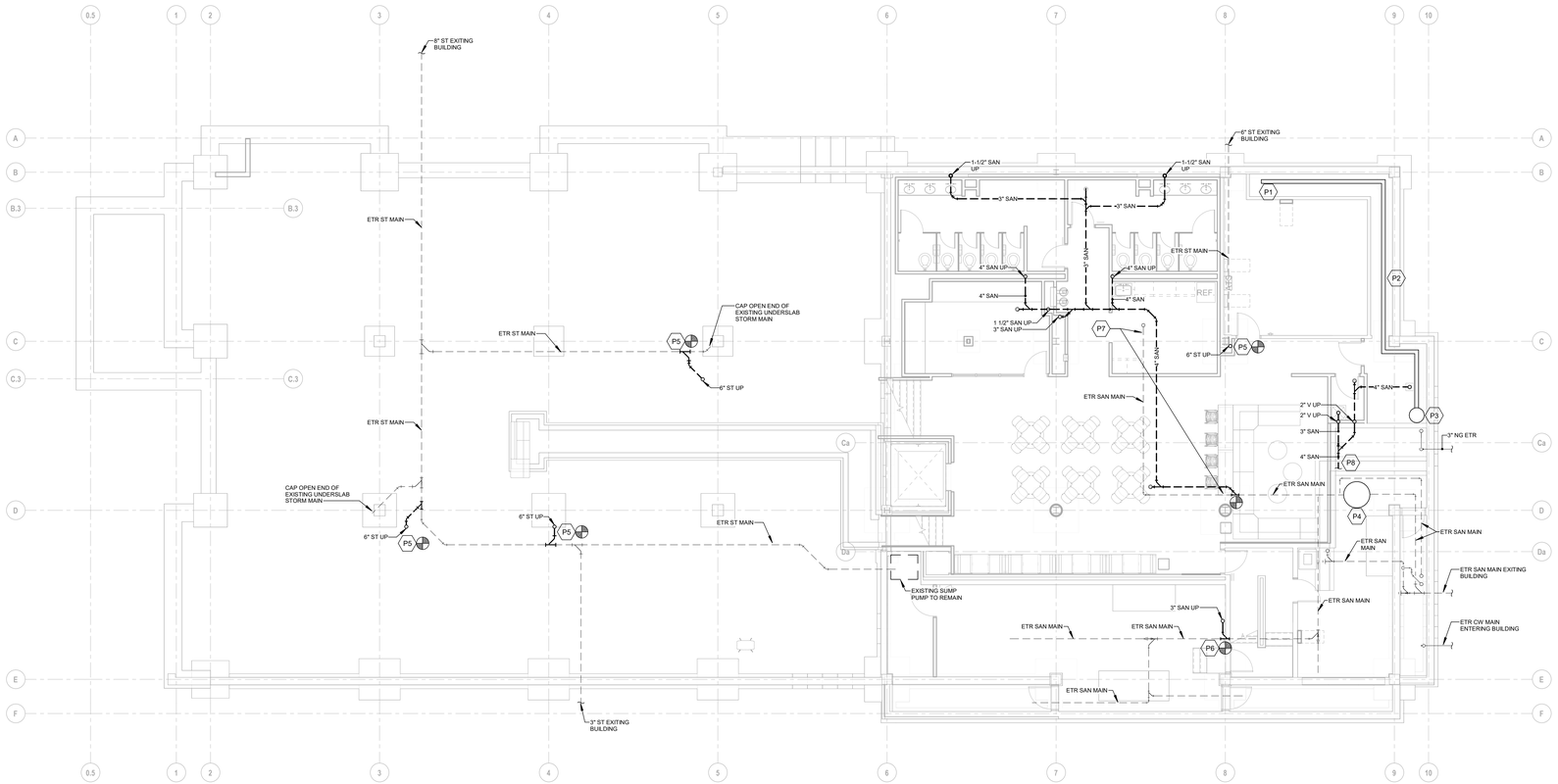
Date: 04/07/2022
Scale: 12" = 1'-0"
Proj. Number: 20287.10

Drawing Number: P000

PLUMBING UNDERGROUND KEY NOTES

P1	PROVIDE 4" SAN TO CONNECT TO EXISTING SANITARY DISCHARGING INTO SEWAGE EJECTOR PUMP BASIN.
P2	EXISTING TRENCH DRAIN SYSTEM TO REMAIN.
P3	EXISTING SUMP TO REMAIN.
P4	EXISTING SEWAGE EJECTOR PUMP TO REMAIN.
P5	PROVIDE 6" ST TO CONNECT TO EXISTING 6" ST PIPING BELOW SLAB.
P6	PROVIDE 3" SAN, CONNECT TO EXISTING SANITARY PIPING BELOW SLAB.
P7	CONTRACTOR TO SCOPE EXISTING UNDERGROUND SANITARY PIPE TO VERIFY EXISTING PIPE SIZE AND INVERT ELEVATION. IF PIPE SIZE IS 4" OR LARGER, CONTRACTOR PERMITTED TO CONNECT 4" SAN FROM NEW BATHROOM GROUPS TO CLOSEST POSSIBLE LOCATION. IF PIPE SIZE IS LESS THAN 4", CONTRACTOR SHALL OWN TYING INTO LOCATION SHOWN.

NOTE: THESE KEYNOTES ARE APPLICABLE TO THIS DRAWING ONLY.



1 PLUMBING UNDERSLAB FLOOR PLAN
1/8" = 1'-0"

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PLUMBING UNDERSLAB PLAN

Date
04/07/2022
Scale
1/8" = 1'-0"
Proj. Number
20287.10

Drawing Number
P100

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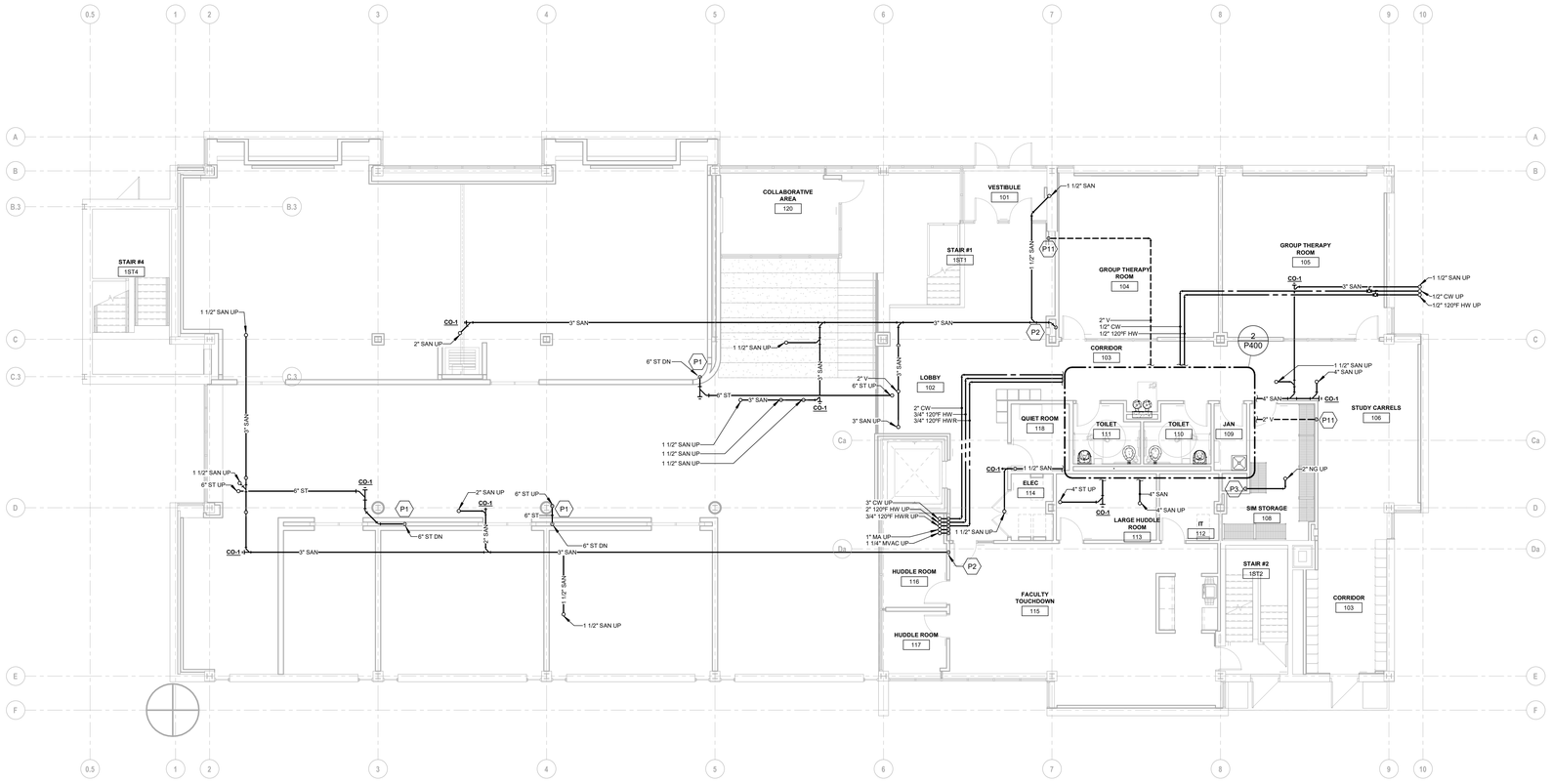
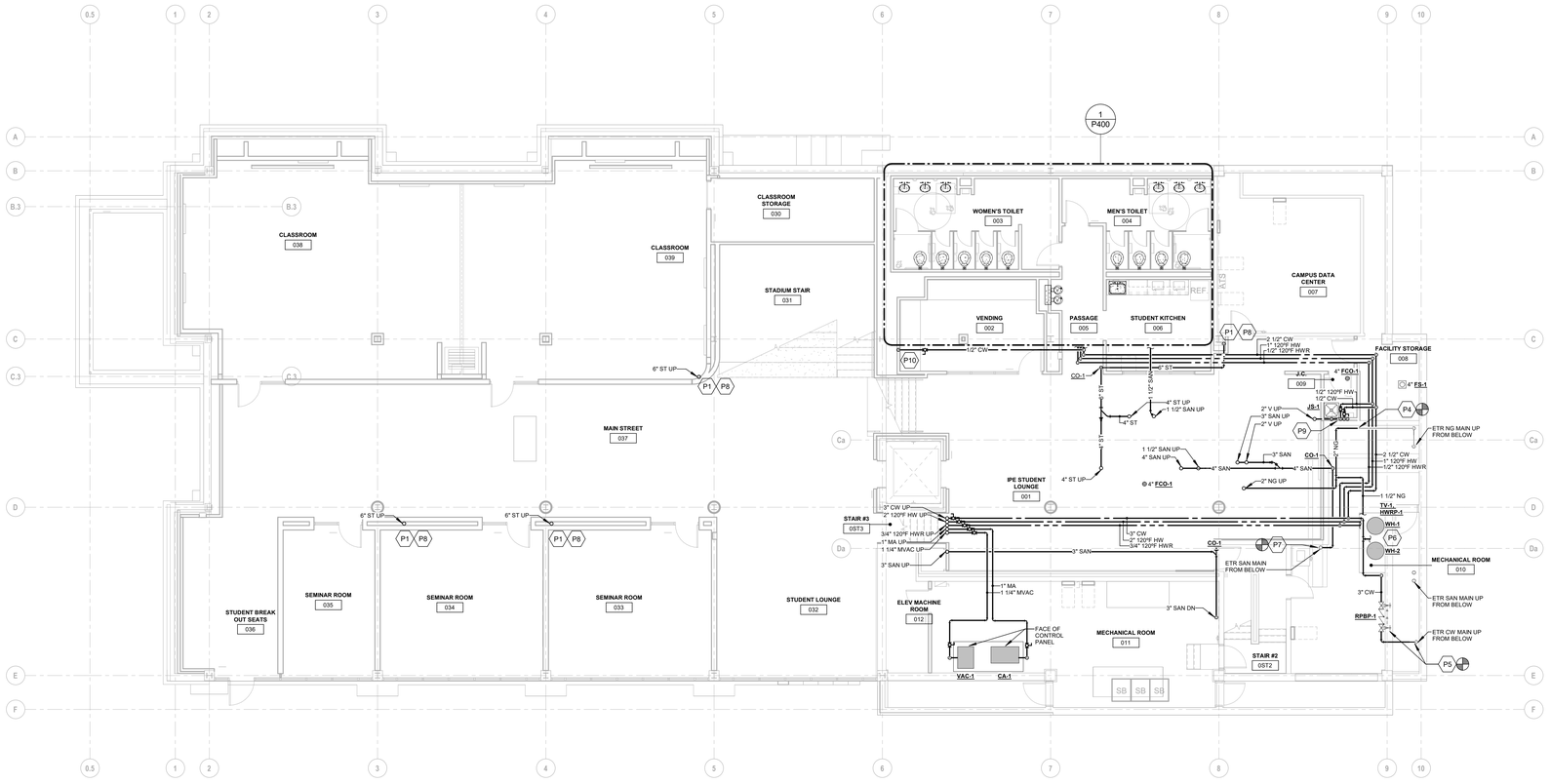


2 PLUMBING FIRST LEVEL FLOOR PLAN
1/8" = 1'-0"



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

PLUMBING KEY NOTES

P1	PROVIDE 6" ST DN TO BELOW SLAB.
P2	PROVIDE 3" SAN DN TO FLOOR BELOW.
P3	PROVIDE 2" NG FROM FLOOR BELOW.
P4	EXISTING NATURAL GAS SERVICE TO REMAIN. CONTRACTOR TO MAINTAIN EXISTING NATURAL GAS SUPPLY TO EXISTING BOILERS. PROVIDE 2" NG, CONNECT TO EXISTING PIPING IN MECHANICAL ROOM AND SUPPLY TO DOMESTIC WATER HEATERS AND ROOF TOP EQUIPMENT.
P5	PROVIDE 3" CW TO CONNECT TO EXISTING CW SERVICE FROM STREET. REFER TO DETAIL # 1/P500 FOR DOMESTIC WATER SERVICE PIPING DIAGRAM.
P6	REFER TO DETAIL #2/P500 FOR PIPING TO WH-1/WH-2.
P7	PROVIDE 4" SAN, CONNECT TO EXISTING 4" SAN.
P8	PROVIDE INDIRECT WASTE RECEPTOR FOR CONDENSATE DISCHARGE INTO STORM PIPING. CONDENSATE PIPING BY DIVISION 23. REFER TO DETAIL #5/P500.
P9	PROVIDE 1/2" CW, 1/2" HW SUPPLY TO JS-1. PROVIDE (2) 2" V FROM BELOW SLAB. COMBINE VENTS IN WALL A MINIMUM OF 6" ABOVE THE FLOOD LEVEL RIM OF JS-1.
P10	PROVIDE 1/2" CW DN IN WALL TO SUPPLY COFFEE MAKER. PROVIDE SHUT-OFF VALVE AND WATTS MODEL #LF7 DUAL CHECK BACKFLOW PREVENTER BEFORE CONNECTION TO EQUIPMENT. PROVIDE CHROME PLATED ESCUTCHEON ON WALL PENETRATION.
P11	PROVIDE 2" V FROM FLOOR BELOW.

NOTE: THESE KEYNOTES ARE APPLICABLE TO THIS DRAWING ONLY.

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KEYPLAN

Number	Date	Issued For

PLUMBING BASEMENT/ LOWER LEVEL AND FIRST FLOOR PLANS

Date: 04/07/2022
Scale: 1/8" = 1'-0"
Proj. Number: 20287.10
Drawing Number: P101

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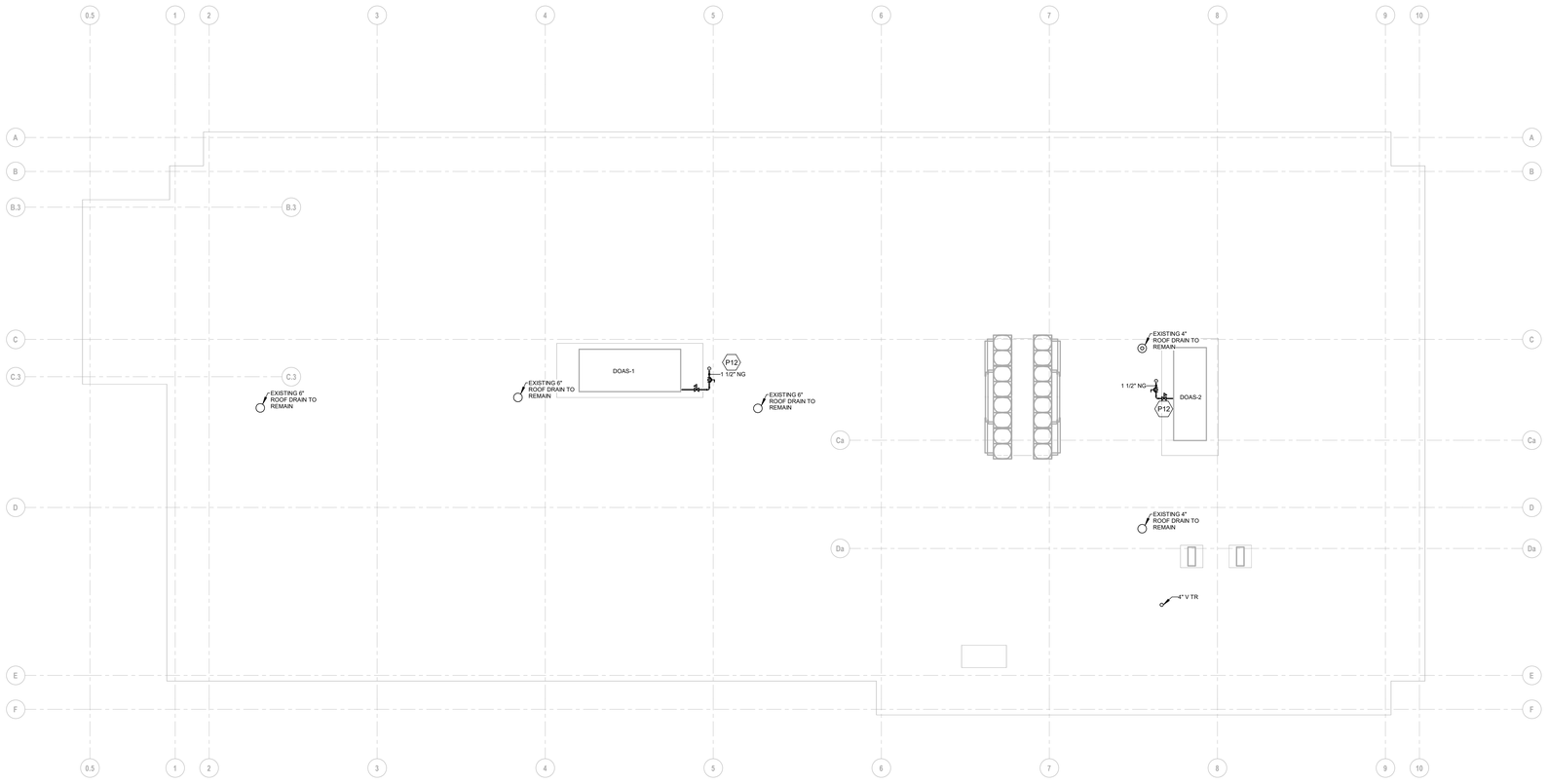
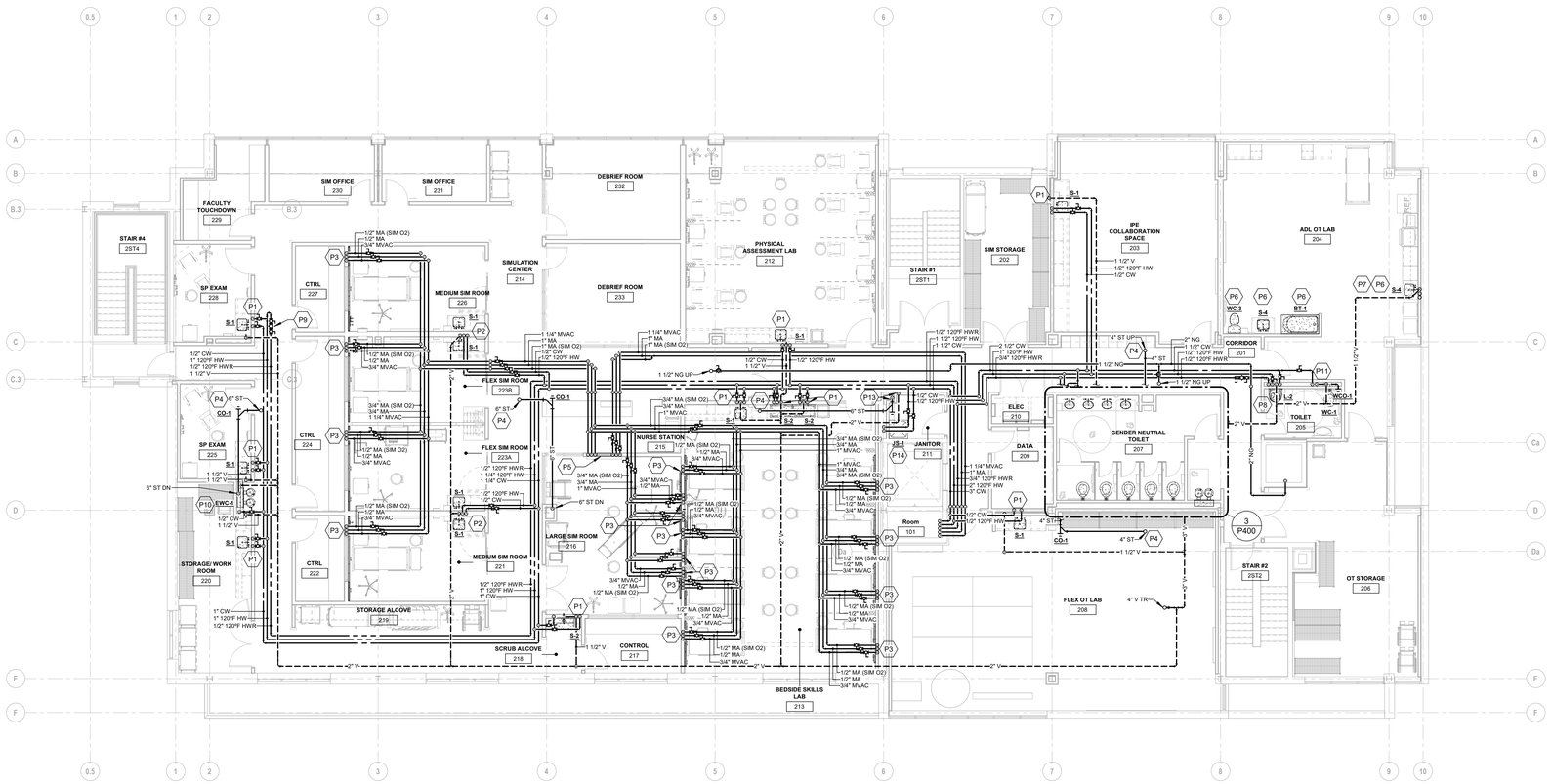


2 PLUMBING ROOF LEVEL FLOOR PLAN
1/8" = 1'-0"



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

PLUMBING KEY NOTES

P1	PROVIDE 1/2" CW, 1/2" HW SUPPLY TO SINK. PROVIDE 1-1/2" SAN DN, 1-1/2" V UP.
P2	PROVIDE 1/2" CW, 1/2" HW SUPPLY TO BOTH SINKS. PROVIDE 1-1/2" SAN FIXTURE CONNECTION TO EACH SINK, COMBINE IN WALL AND INCREASE TO 2" SAN AT INTERCONNECTION. PROVIDE 2" COMMON VENT UP AT INTERCONNECTION.
P3	PROVIDE 3/4" MVAC, 1/2" MA, AND 1/2" MA (SIM O2) DN IN WALL TO MEDICAL GAS OUTLET. (MEDICAL GAS OUTLET PROVIDED BY OTHERS)
P4	PROVIDE ST PIPING TO CONNECT TO EXISTING ROOF DRAIN. PIPE SIZE AS INDICATED ON PLAN.
P5	PROVIDE 1" MA, 1" MA (SIM O2), & 1-1/4" MVAC DN IN WALL TO ALARM VALVE BOX. ALARM VALVE BOX SHALL BE BEACON MEDAES MODEL #AZVB3-CCD.
P6	PLUMBING FIXTURE FOR SIMULATED USE ONLY, WILL NOT BE CONNECTED TO WATER, WASTE OR VENT.
P7	PROVIDE 1-1/2" SAN DN, 1-1/2" V UP. CAP SANITARY PIPING IN WALL FOR FUTURE CONNECTION. PROVIDE 1/2" CW, 1/2" HW FROM FLOOR BELOW, VALVE AND CAP BELOW SINK.
P8	PROVIDE 1/2" CW, 1/2" HW, 1/2" HWR DN TO SUPPLY LAVATORY, REFER TO DETAIL #3/P500. PROVIDE 1-1/2" SAN DN, 1-1/2" V UP.
P9	PROVIDE HWR BALANCE VALVE SET TO 0.5 GPM.
P10	PROVIDE 1/2" CW SUPPLY TO EWC-1. PROVIDE 1-1/2" SAN DN, 1-1/2" V UP.
P11	PROVIDE 1-1/2" CW SUPPLY TO WC-1. PROVIDE 4" SAN DN, 2" V UP.
P12	PROVIDE NG CONNECTION TO MECHANICAL EQUIPMENT. PROVIDE DIRT LEG ABOVE SECOND FLOOR CEILING BEFORE ROOF PENETRATION TO PREVENT FREEZING.
P13	PROVIDE 6" ST DN IN PIPE CHASE. PROVIDE 2" V FROM BELOW.
P14	PROVIDE 1/2" CW AND 1/2" HW SUPPLY TO JS-1.

NOTE: THESE KEYNOTES ARE APPLICABLE TO THIS DRAWING ONLY.

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KEYPLAN

Number	Date	Issued For

PLUMBING SECOND FLOOR AND ROOF PLANS

Date 04/07/2022
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Proj. Number 20287.10
Drawing Number P102

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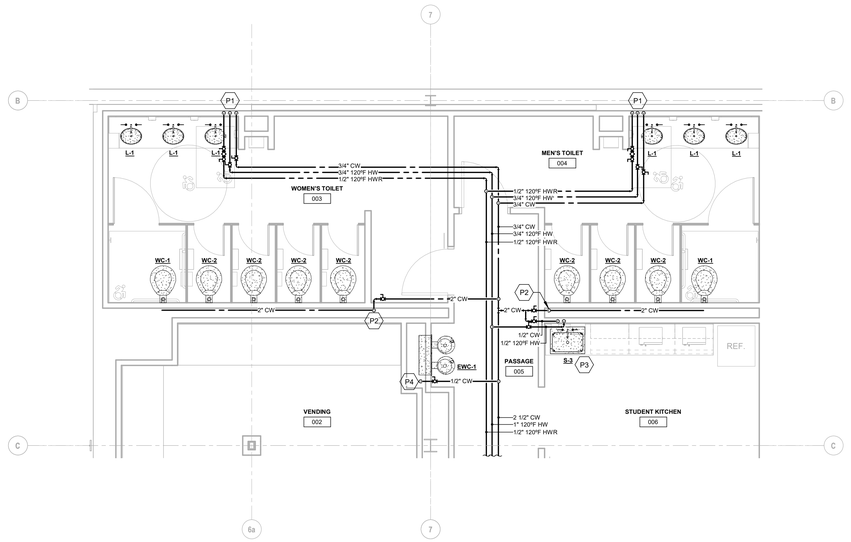
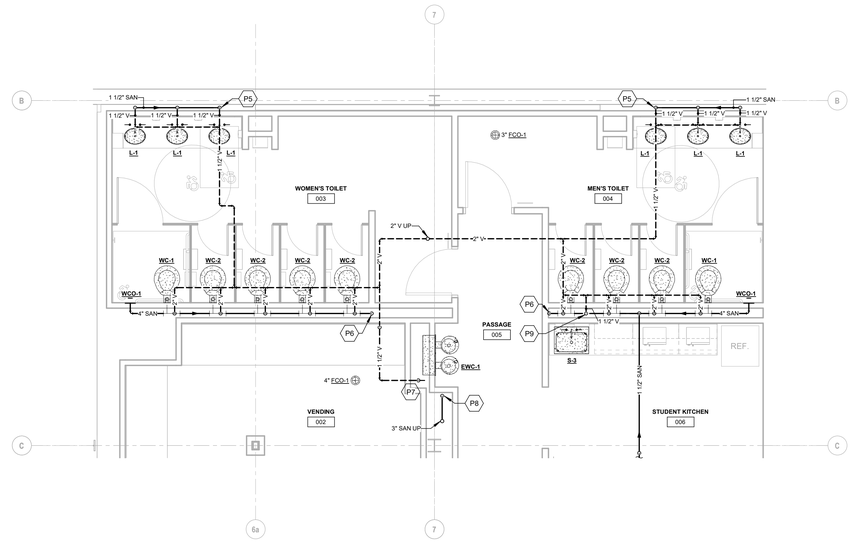
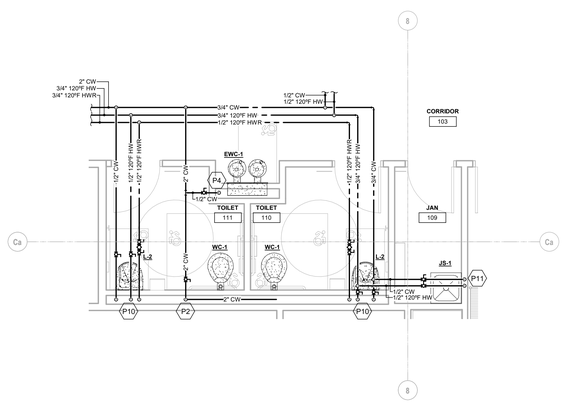
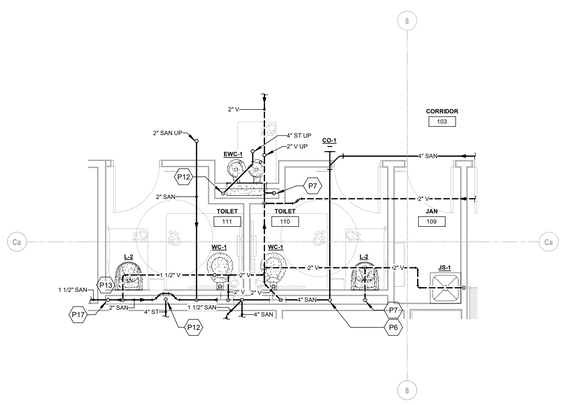


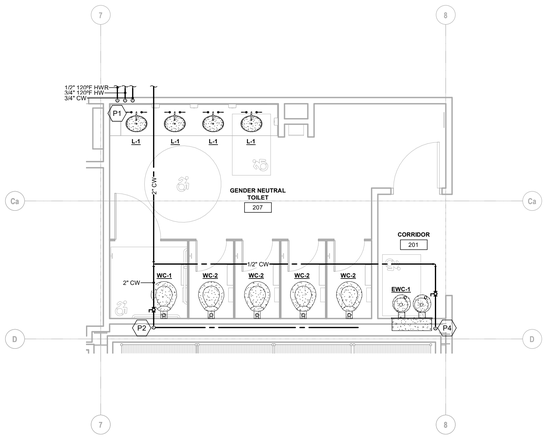


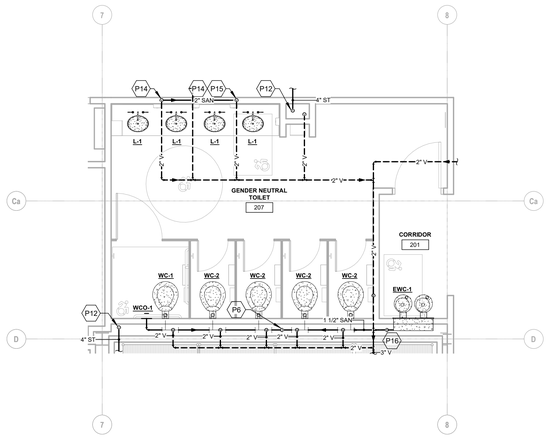
1 PLUMBING ENLARGED PLANS - BASEMENT LEVEL TOILET ROOMS
1/4" = 1'-0"





2 PLUMBING ENLARGED PLANS - FIRST LEVEL TOILET ROOMS
1/4" = 1'-0"





3 PLUMBING ENLARGED PLANS - SECOND LEVEL GENDER NEUTRAL TOILET ROOM
1/4" = 1'-0"

PLUMBING KEY NOTES

P1	PROVIDE 3/4" CW, 3/4" HW, AND 1/2" HWR DN TO SUPPLY TO LAVATORYS. REFER TO DETAIL # 4/P500 FOR ADDITIONAL DOMESTIC WATER PIPING COMPONENTS.
P2	PROVIDE 2" CW DN IN WET WALL. RUN 2" CW HEADER TO SUPPLY ALL WATER CLOSETS ALONG WALL. REFER TO PLUMBING FIXTURE CONNECTION SCHEUDLE FOR PIPE SIZE TO INDIVIDUAL FIXTURES.
P3	PROVIDE 1/2" CW AND 1/2" HW SUPPLY TO SINK.
P4	PROVIDE 1/2" CW SUPPLY TO EWC-1.
P5	PROVIDE 1-1/2" SAN, 1-1/2" V CONNECTION TO EACH LAV. COMBINE WASTE IN WALL, 1-1/2" SAN DN TO BELOW SLAB.
P6	PROVIDE 4" SAN DN.
P7	PROVIDE 1-1/2" SAN DN, 1-1/2" V UP.
P8	PROVIDE 3" SAN DN THROUGH FLOOR.
P9	PROVIDE 1-1/2" SAN, 1-1/2" V CONNECTION TO S-3. COMBINE SANITARY INTO 4" SANITARY IN WET WALL.
P10	PROVIDE 1/2" CW, 1/2" HW, 1/2" HWR SUPPLY TO LAVATORY. REFER TO DETAIL #3/P500 FOR ADDITIONAL DOMESTIC WATER PIPING COMPONENTS.
P11	PROVIDE 1/2" CW AND 1/2" HW SUPPLY TO JS-1.
P12	PROVIDE 4" ST DN.
P13	PROVIDE 1-1/2" SAN, 1-1/2" V CONNECTION TO LAV. CONNECT SANITARY INTO WATER CLOSET CARRIER.
P14	PROVIDE 1-1/2" SAN CONNECTION TO EACH LAV, COMBINE IN WALL, INCREASE TO 2" SAN AND PROVIDE 2" COMMON VENT UP AT INTERSECTION.
P15	2" SAN DN THROUGH FLOOR, SERVES ALL (4) LAVS.
P16	PROVIDE 1-1/2" SAN, 1-1/2" V CONNECTION TO EWC-1. COMBINE SANITARY INTO WATER CLOSET CARRIER
P17	PROVIDE 1-1/2" SAN DN IN WET WALL. COMBINE WITH WASTE FROM LAV, INCREASE TO 2" SAN. CONNECT SANITARY INTO WATER CLOSET CARRIER.

NOTE: THESE KEYNOTES ARE APPLICABLE TO THIS DRAWING ONLY.

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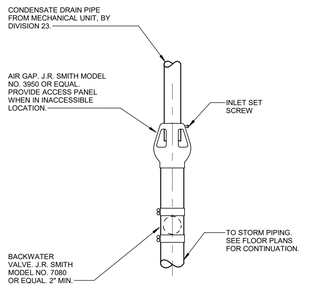
KEYPLAN

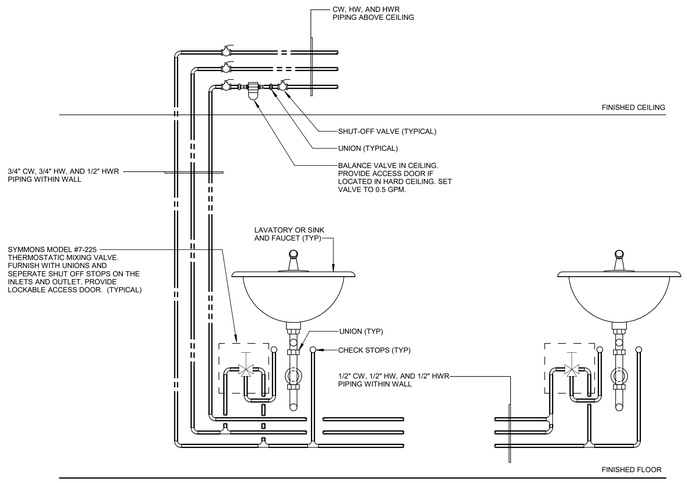
Number	Date	Issued For

PLUMBING ENLARGED PLANS

Date: 04/07/2022
Scale: As indicated
Proj. Number: 20287.10
Drawing Number: P400

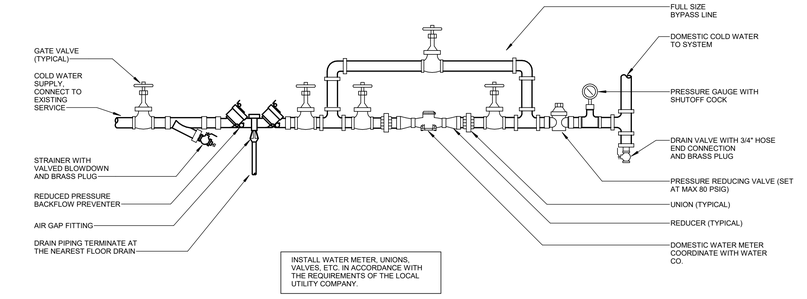


5 CONDENSATE TO STORM DETAIL
NTS

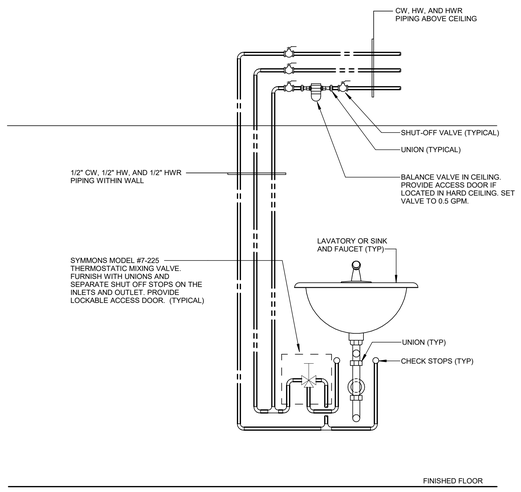


NOTES:
1. PROVIDE BALANCE VALVE ABOVE CEILING. PROVIDE WITH A LOCKABLE ACCESS DOOR IF LOCATED IN A HARD CEILING.
2. EACH LAV SHALL BE SERVED BY A MIXING VALVE INSTALLED BEHIND A LOCKABLE ACCESS DOOR LOCATED 15" TO 17" A.F.F.
3. REFER TO FLOOR PLANS FOR PIPE SIZES AND TYPE/QUANTITY OF FIXTURES.
4. THIS DETAIL IS INTENDED TO SHOW THE GENERAL INTENT OF THE HOT WATER CIRCULATION PIPING TO A FIXTURE. NOT ALL FIXTURE REQUIREMENTS, FITTINGS AND DEVICES ARE SHOWN.

4 TYPICAL GROUP LAVATORY AND SINK PIPING DETAIL
NTS



1 DOMESTIC WATER SERVICE DIAGRAM
NTS



NOTES:
1. PROVIDE BALANCE VALVE ABOVE CEILING. PROVIDE WITH A LOCKABLE ACCESS DOOR IF LOCATED IN A HARD CEILING.
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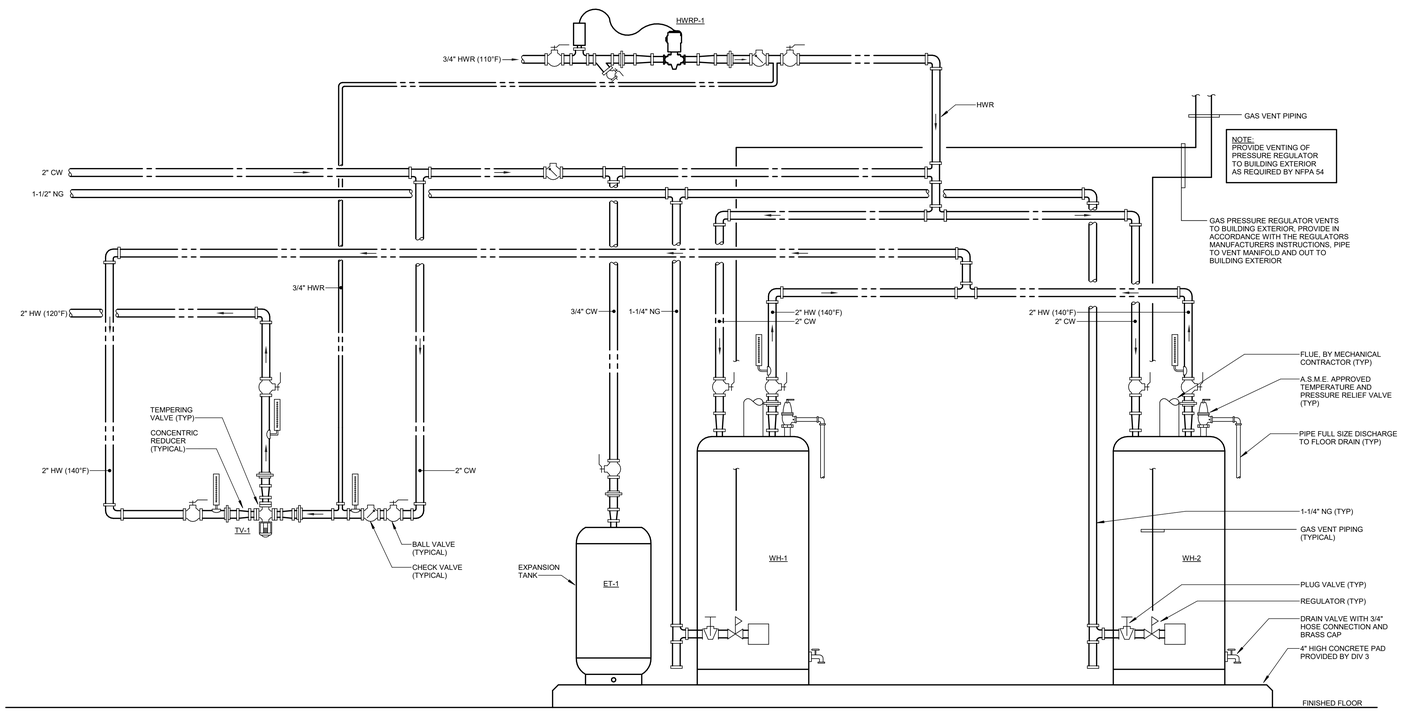
3. REFER TO FLOOR PLANS FOR PIPE SIZES AND TYPE/QUANTITY OF FIXTURES.
4. THIS DETAIL IS INTENDED TO SHOW THE GENERAL INTENT OF THE HOT WATER CIRCULATION PIPING TO A FIXTURE. NOT ALL FIXTURE REQUIREMENTS, FITTINGS AND DEVICES ARE SHOWN.

3 TYPICAL LAVATORY AND SINK PIPING DETAIL
NTS



GENERAL NOTE:
1. CONTRACTOR MUST COORDINATE HOT WATER RECIRCULATION PIPING INSTALLATION PER THERMOSTATIC MIXING VALVE MANUFACTURERS INSTALLATION INSTRUCTION. HWR PIPING CONFIGURATION IS INDICATED FOR REFERENCE ONLY.
2. CONTRACTOR MUST COORDINATE EXPANSION TANK PIPING INSTALLATION PER EXPANSION TANK MANUFACTURERS INSTALLATION INSTRUCTION. EXPANSION TANK PIPING CONFIGURATION IS INDICATED FOR REFERENCE ONLY.

2 WATER HEATER DETAIL
NTS

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KEYPLAN

Number	Date	Issued For

PLUMBING DETAILS

Date: 04/07/2022
Scale: NTS
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Drawing Number: P500

PLUMBING SPECIALTIES SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS	SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION	COMPONENTS AND ACCESSORIES	MOUNTING HEIGHT	REMARKS
CO-1	JR SMITH MODEL # 4420C	CLEANOUT: CAST IRON SPIGOT FERRULE WITH CAST BRONZE TAPER THREAD PLUG	VANDAL PROOF	-	#3	RPBP-1	WATTS 3/4" TO 2": MODEL # LF909-QT-S 2-1/2" TO 6": MODEL # LF909-OSY	REDUCED PRESSURE BACKFLOW PREVENTER: CAST IRON BODY WITH CORROSION RESISTANT INTERNAL PARTS AND SST SPRINGS. LEAD FREE	SHUTOFF VALVES: UP TO 2" - BRONZE BODY BALL VALVES OVER 2" - OS&Y GATE VALVE.	MAXIMUM OF 5' 0" ABOVE FINISHED FLOOR.	#2,3
ET-1	AMTROL MODEL # ST-12C-DD	EXPANSION TANK: STEEL TANK, 3.2 GALLONS ACCEPTANCE VOLUME, POLYPROPYLENE LINER ASME CONSTRUCTED PRECHARGED	-	-	#1	TV-1	WATTS "HYDROGUARD" MODEL # LFSH1434	THERMOSTATIC MIXING VALVE: MASTER MIXING VALVE, 1 GPM MINIMUM FLOW, 5 PSIG DROP AT 42 GPM. SET POINT: 120°F	PROVIDE INLET/OUTLET PRESSURE/TEMP GAUGES, BYPASS RECIRCULATION PUMP, BALANCE VALVES, CHECK VALVES. PROVIDE WITH HWRP-1	-	#1,3
FCO-1	JR. SMITH MODEL # 4023S-F-C-U-PB	FLOOR CLEANOUT: LIGHT DUTY, CAST IRON BODY, ROUND ADJUSTABLE SCORIATED NICKEL BRONZE TOP, TAPER THREAD, BRONZE PLUG.	FLANGE WITH FLASHING CLAMP, VANDAL PROOF PLUG. PROVIDE CARPET CLAMP FOR CARPETED FLOOR AREAS.	-	#3	WCO-1	JR SMITH MODEL # 4402C-U	WALL CLEANOUT: DUCO CAST IRON SPIGOT FERRULE CAST BRONZE THREAD PLUG, STAINLESS STEEL ROUND COVER AND SCREW.	VANDAL PROOF SCREWS.	-	#3,5
FS-1	JR. SMITH MODEL # 3150-PDBS-U-13	FLOOR SINK: 8" DEEP RECEPTOR, NICKEL-BRONZE RIM, ALUMINUM SEDIMENT BUCKET.	12 1/2" SQUARE NICKEL BRONZE TOP WITH VANDAL PROOF 3/4 GRATE. PROVIDE PROSET TRAP GUARD.	-	#3	WHA-1	PRECISION PLUMBING MODEL # SC-500 THROUGH # SC-2000	WATER HAMMER ARRESTOR: BARREL FABRICATED OF TYPE "L" HARD DRAWN COPPER, WITH EPDM "O" RING SEALS. NORMAL OPERATING PRESSURE 0-80 PSIG.	MACHINED COMPOSITE MATERIAL PISTON AND LOW LEAD BRASS THREADED ADAPTER	-	#4

REMARKS:

1. PROVIDE ISOLATION VALVES AT THE SUPPLY PIPE CONNECTIONS.
2. PROVIDE AN AIR GAP FITTING ON THE DRAIN LINE, MOUNT AT A SUFFICIENT HEIGHT TO ALLOW PROPER DRAINAGE.
3. REFER TO FLOOR PLANS FOR SIZES.
4. INSTALL SIZED PER LOAD (WSFU) RECOMMENDED BY PDI & MANUFACTURER.
5. PROVIDE WALL CLEANOUT AT BASE OF ALL SANITARY AND STORM STACKS. FURNISH WITH ACCESS DOOR OR COVER.

AIR COMPRESSOR SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	SERVING	CAPACITY	MAX PRESSURE (PSIG)	WEIGHT (LBS)	CAPACITY (GALLONS)	ELEC DATA HP-VOLTS-PH	REMARKS
CA-1	BEACON MEDAES MODEL # LES05-115T-RD-071	OIL LESS	MECH ROOM	MA & MA (SIM O2)	14 SCFM @ 50 PSI	112.4	538 LBS	71	5/208V/3PH	#1,2

REMARKS:
1. ELECTRIC DRIVE
2. COMPLIANT TO OSHA AND UL STANDARDS

VACUUM PUMP SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	LOCATION	SERVING	NOMINAL PUMPING SPEED	CAPACITY	END PRESSURE (INCH OF Hg.V)	WEIGHT (LBS)	ELEC DATA HP-VOLTS-PH	REMARKS
VAC-1	BEACON MEDAES MODEL # VLV02S-030V-BSCD-SPL	MECH ROOM	MVAC	28 ACFM	11 SCFM @ 19" Hg	29.3	438 LBS	2/208V/3PH	-

GAS FIRED WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	FUEL TYPE	BTUH INPUT	STORAGE CAP. (GAL)	RECOVERY IN GPH AT 100°F RISE	ELEC. DATA VOLT-PH-AMP	REMARKS
WH-1	AO SMITH MODEL # BTH-120(A)	S	MECH ROOM	GAS	120,000	60	138	120V-1-15	NOTE #1,2
WH-2	AO SMITH MODEL # BTH-120(A)	S	MECH ROOM	GAS	120,000	60	138	120V-1-15	NOTE #1,2

NOTE:

1. WATER HEATER SHALL BE PROVIDED WITH A MINIMUM OF 14"W.C. GAS PRESSURE.
2. WATER HEATER SHALL BE PROVIDED WITH ELECTRONIC IGNITION.

S= STORAGE

PUMP SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	TYPE	LOCATION	SYSTEM SERVED	CAPACITY	CAPACITY FT OF HEAD	FLUID TEMP (F°)	ELEC. DATA	REMARKS
HWRP-1	TACO MODEL # 009	IL	MECHANICAL ROOM	DOMESTIC HW RECIRC	3.5 GPM	23.2	120°F	115 V / 1/8 HP / 1 PHASE	1

NOTES:
IL = IN-LINE PUMP

REMARKS:
1. PUMP SHALL BE BRONZE FOR DOMESTIC WATER USE

PLUMBING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION OF FIXTURE	TRIM AND ACCESSORIES	REMARKS	SYMBOL	MANUFACTURER/ MODEL NUMBER	DESCRIPTION OF FIXTURE	TRIM AND ACCESSORIES	REMARKS
BT-1	AMERICAN STANDARD "STUDIO" MODEL # 2573202	BATH TUB: FLOOR MOUNT, FIBERGLASS, INTEGRAL APRON, 60" X 30" X 18".	PROVIDE MODEL **#1583.470** DRAIN AND OVERFLOW. PROVIDE MODEL **#S960IFPLTRM** SHOWER/HAND SHOWER TRIM.	-	S-2	ELKAY MODEL # EWSFAD13620SACC	SCRUB SINK: ACCESSIBLE, WALL MOUNT, 16 GAUGE TYPE 304 STAINLESS STEEL, REAR CENTER DRAIN, 33" X 16-1/2" X 6-1/2" BOWL.	PROVIDE MODEL **#LKB722C** SENSOR FAUCET WITH AC PLUG-IN, MODEL **#LK723** MIXING VALVE, AND MODEL **#LK18B** DRAIN.	#2,3,4
EWC-1	ELKAY MODEL # LZWS-LRPBM28K	ELECTRIC WATER COOLER: ACCESSIBLE, DOUBLE BOWL WITH BOTTLE FILLER, PUSH ACTIVATION. WALL MOUNT IN WALL, 8.0 GPH CHILLER CAPACITY., STAINLESS STEEL FINISH.	PROVIDE IN WALL CARRIER. REPLACEMENT WATER FILTERS, MODEL **#LKAPR1** CANE APRON AND STAINLESS STEEL ACCESS PANEL.	#3,4	S-3	ELKAY "LUSTERTONE" MODEL # LRAD252255	SINK: ACCESSIBLE, DROP-IN, 18 GAUGE TYPE 304 STAINLESS STEEL, SINGLE CENTER FAUCET HOLE. REAR CENTER DRAIN. 21" X 15-3/4" X 5-1/8" BOWL.	PROVIDE T&S BRASS MODEL **#B-0300-VR4-WS** SINGLE HOLE DECK MOUNT MANUAL FAUCET, GOOSENECK, VANDAL RESISTANT, 1.5 GPM. PROVIDE MODEL **#LKAD35** DRAIN FITTING AND STRAINER.	#2,3,4
JS-1	FIAT MODEL # MSB2424	JANITORS SINK: MOLDED STONE BASIN, 24"X24"X10". SST INTEGRAL DRAIN BODY.	SEE REMARK #8	#1,4,8	S-4	ELKAY "LUSTERTONE" MODEL # ELUHAD161650	SINK: ACCESSIBLE, UNDERMOUNT, STAINLESS STEEL, 18 GAUGE TYPE 304 STAINLESS STEEL, 16"L X 16"W X 4-7/8"D BOWL.	PROVIDE T&S BRASS MODEL **#B-0300-VR4-WS** SINGLE HOLE DECK MOUNT MANUAL FAUCET, GOOSENECK, VANDAL RESISTANT, 1.5 GPM. PROVIDE MODEL **#LKAD35** DRAIN FITTING AND STRAINER.	#2,3,4
L-1	KOHLER "CAXTON" MODEL # K-2209	LAVATORY: ACCESSIBLE UNDERMOUNT, VITREOUS CHINA, OVAL BASIN. (3) 4" SPACED FAUCET HOLES	PROVIDE SLOAN MODEL **#ETF-600-8-BOX-BDT-CP-0.5GPM-MLM-IR-FCT** SENSOR ACTIVATED FAUCET, DECK MOUNT, POLISHED CHROME FINISH, 0.5 GPM VANDAL RESISTANT SPRAY DEVICE. THERMOSTATIC MIXING VALVE SET TO 110°F.	#1,2,3,4,11,13	WC-1	KOHLER "KINGSTON" MODEL # K-4325	WATER CLOSET: ACCESSIBLE, WALL HUNG, ELONGATED BOWL, VITREOUS CHINA, 1 1/2" TOP SPUD, 1.28 MAX GPF.	FURNISH WITH SLOAN ROYAL MODEL **#G2-8111-1.28** SENSOR FLUSH VALVE, BATTERY POWERED, TOP-SPUD, 1.28 GPF, VACUUM BREAKER, MECHANICAL OVERRIDE. OLSONITE **#95SS** SEAT, WALL SUPPORT JR SMITH SERIES 0200.	#1,3,4,5,12
L-2	KOHLER "PINOIR" MODEL # K-2028-4	LAVATORY: ACCESSIBLE, WALL MOUNT, VITREOUS CHINA, OVAL BASIN, OVERFLOW.	PROVIDE SLOAN MODEL **#ETF-600-8-BOX-BDT-CP-0.5GPM-MLM-IR-FCT** SENSOR ACTIVATED FAUCET, DECK MOUNT, POLISHED CHROME FINISH, 0.5 GPM VANDAL RESISTANT SPRAY DEVICE. THERMOSTATIC MIXING VALVE SET TO 110°F. PROVIDE WALL SUPPORT FRAME.	#1,2,3,4,11,13	WC-2	KOHLER "KINGSTON" MODEL # K-4325	WATER CLOSET: STANDARD, WALL HUNG, ELONGATED BOWL, VITREOUS CHINA, 1 1/2" TOP SPUD, 1.28 MAX GPF.	FURNISH WITH SLOAN ROYAL MODEL **#G2-8111-1.28** SENSOR FLUSH VALVE, BATTERY POWERED, TOP-SPUD, 1.28 GPF, VACUUM BREAKER, MECHANICAL OVERRIDE. OLSONITE **#95SS** SEAT, WALL SUPPORT JR SMITH SERIES 0200.	#1,4,5,12
S-1	ELKAY "LUSTERTONE" MODEL # ELUHAD161650	SINK: ACCESSIBLE, UNDERMOUNT, STAINLESS STEEL, 18 GAUGE TYPE 304 STAINLESS STEEL, 16"L X 16"W X 4-7/8"D BOWL.	PROVIDE T&S BRASS MODEL **#B-0300-VR4-WS** SINGLE HOLE DECK MOUNT MANUAL FAUCET, GOOSENECK, VANDAL RESISTANT, 1.5 GPM. PROVIDE MODEL **#LKAD35** DRAIN FITTING AND STRAINER.	#2,3,4	WC-3	KOHLER "HIGHLINE" MODEL # K-3999	WATER CLOSET: STANDARD, FLOOR MOUNTED, ELONGATED BOWL, VITREOUS CHINA, TWO PIECE TANK, 1.28 MAX GPF.	TWO PIECE BOWL AND TANK. PROVIDE MODEL #K-5588 TOILET SEAT. PROVIDE PLEXI-GLASS COVER OVER TOILET BOWL.	#1

REMARKS:

1. COLOR SHALL BE WHITE.
2. PROVIDE TRUEBRO INC. MODEL #102, HANDI LAV-GUARD PROTECTOR ON THE HOT, COLD, AND DRAIN PIPING UNDER FIXTURE.
3. FIXTURES AND TRIM AS NOTED SHALL BE "ACCESSIBLE" AND SHALL BE INSTALLED TO ADA / ANSI A117 AND FEDERAL 504 REQUIREMENTS.
4. PROVIDE ISOLATION VALVES AT THE SUPPLY PIPE CONNECTIONS.
5. PROVIDE WATER HAMMER ARRESTORS AT THE PIPE CONNECTIONS, LOCATE IN AN ACCESSIBLE LOCATION.
6. NUMBER NOT USED.
7. NUMBER NOT USED.
8. PROVIDE WITH CHICAGO MODEL #897-CCP SERVICE FAUCET WITH VACUUM BREAKER AND INTEGRAL CHECK VALVES, FIAT MODEL #1453BB STAINLESS STEEL STRAINER, MODEL #1239BB ALUMINUM BUMPER GUARD PLATE, MODEL #MSG-2424 WALL GUARD, MODEL #889-CC MOP HANGER, FOR CAULKED LEAD CONNECTION NO LESS THAN 1" DEEP FROM DRAIN TO A 3" WASTE PIPE.
9. FIXTURE U-1 SHALL BE ACCESSIBLE WHERE DESIGNATED BY ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
10. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
11. PROVIDE SYMMONS MODEL #7-225 SERIES THERMOSTATIC MIXING VALVE, OR APPROVED EQUAL, ON WATER SUPPLY TO FIXTURE. SET TEMPERATURE TO 110°F.
12. SENSOR SHALL BE ADJUSTABLE. PROVIDE WITH SOLENOID VALVE, CHROME PLATED WALL PLATE AND SLOAN MODEL #EL-154 TRANSFORMER (120 VAC/24 VAC).
13. FAUCET SHALL BE HARDWIRED, PROVIDE WITH BOX TRANSFORMER.

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE TYPE	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
DRINKING FOUNTAIN	1 1/2"	1 1/2"	1/2"	-
DRINKING FOUNTAIN (2 BOWL)	1 1/2" (2)	1 1/2" (2)	1/2" (2)	-
JANITORS MOP BASIN	3"	1 1/2"	1/2"	1/2"
LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"
SINK	1 1/2"	1 1/2"	1/2"	1/2"
URINAL	2"	1 1/2"	3/4"	-
WATER CLOSET (FLUSH VALVE)	4"	2"	1 1/2"	-

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL PLUMBING FIXTURE MOUNTING HEIGHTS.
2. ALL PIPE TRAPS AT SINKS AND LAVATORIES SHALL BE CHROME PLATED BRASS.

WATER HAMMER ARRESTOR SCHEDULE

MANUFACTURER/ MODEL NUMBER	SIZE N.P.T.	OVER ALL LENGTH	PRELOADED PSI (AIR)	FIXTURE UNITS	REMARKS
PPP MODEL #SC-500	1/2"	5"	60	1-11	ALL
PPP MODEL #SC-750	3/4"	6"	60	12-32	ALL
PPP MODEL# SC-1000	1"	6 3/4"	60	33-60	ALL
PPP MODEL# SC-1250	1 1/4"	8 3/4"	60	61-113	ALL
PPP MODEL# SC-1500	1 1/2"	10 1/4"	60	114-154	ALL
PPP MODEL# SC-2000	2"	10 7/8"	60	155-330	ALL

NOTES:
1. LOCATE WATER HAMMER ARRESTORS AS CLOSE AS POSSIBLE TO SHOCK SOURCE.
2. INSTALL PER ALL MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS.
3. LOCATE IN AN ACCESSIBLE LOCATION, PROVIDE ACCESS AS REQUIRED.
4. FIXTURE UNITS SHALL BE BASED ON THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE.
5. WATER HAMMER ARRESTORS SHALL BE PROVIDED WHERE QUICK-CLOSING VALVES ARE UTILIZED.
6. PROVIDE WATER HAMMER ARRESTORS AT CLOTHES WASHING MACHINES
7. PROVIDE WATER HAMMER ARRESTORS PER GROUP OF WATER CLOSETS AND PER GROUP OF URINALS, WHERE GROUP DOES NOT EXIST PROVIDE WATER HAMMER ARRESTOR AT SINGLE WATER CLOSET.

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KEYPLAN

Number	Date	Issued For

PLUMBING SCHEDULES AND DIAGRAMS

Date: 04/07/2022
Scale: 1/8" = 1'-0"
Proj. Number: 20287.10
Drawing Number: **P600**

CONTROLS GENERAL NOTES

1. GENERAL
   - A. SEQUENCES OUTLINED SHALL BE PERFORMED BY DIRECT DIGITAL CONTROL FIELD PANELS (DDCFPS) AND LOCALLY MOUNTED DIRECT DIGITAL UNIT CONTROLLERS CONNECTED TO A CENTRAL BUILDING AUTOMATION SYSTEM, UNLESS OTHERWISE SPECIFIED. SYSTEM ARCHITECTURE SHALL BE BASED ON A PEER-TO-PEER DISTRIBUTED CONTROL SYSTEM NETWORK. SYSTEM SHALL INTEGRATE OPEN COMMUNICATION PROTOCOL CONTROLLERS. ALL DDCFP AND LOCAL CONTROLLERS SHALL BE CAPABLE OF INDEPENDENT OPERATION REGARDLESS OF THE STATUS OF THE BAS WORKSTATION.
   - B. BMS (BUILDING MANAGEMENT SYSTEM), BAS (BUILDING AUTOMATION SYSTEM) AND DDC (DIRECT DIGITAL CONTROLS) MAY BE USED INTERCHANGEABLY AND SHARE THE SAME MEANING.
   - C. ADDRESS IDENTIFIERS FOR ALL POINTS AND VARIABLES SHALL BE COORDINATED WITH OWNER AND EXISTING CONTROLS AND SHALL BE APPROVED BY THE FACILTY OWNER.
   - D. ABILITY TO REVIEW ALL MEASURED DATA, CONTROL SETPOINTS AND FUNCTIONS SHALL BE PROVIDED AT BAS WORKSTATION AND ON LAPTOP SERVICE TOOL.
   - E. COORDINATE SENSOR LOCATIONS WITH DUCTWORK AND PIPING SHOP DRAWINGS AND INDICATE PROPOSED LOCATIONS ON SUBMITTALS. PROVIDE MANUFACTURER'S RECOMMENDED UPSTREAM AND DOWNSTREAM PIPE OR DUCT DIAMETERS FOR FLOW SENSING ELEMENTS.
   - F. PROVIDE COMMUNICATIONS INTERFACE INCLUDING SOFTWARE BETWEEN THE BAS AND EACH EQUIPMENT MANUFACTURER SUPPLIED CONTROL PANEL. BAS SHALL BE CAPABLE OF READING AND DISPLAYING ALL DATA USED BY THE EQUIPMENT MANUFACTURER CONTROL PANEL. SOFTWARE INTERFACE SHALL BE THROUGH LONMARK OR BACNET COMPLIANT PROTOCOL WHERE THE BAS IS REQUIRED TO CONTROL THE OPERATION OF THE EQUIPMENT. PROVIDE COMPLETE INPUT AND OUTPUT INTERFACE.
   - G. FAIL SAFE POSITIONS INDICATED ARE POSITIONS THAT DEVICES WILL GO TO WHEN THE ASSOCIATED EQUIPMENT IS DE-ENERGIZED.
   - H. PROVIDE ADEQUATE DAMPING OF ALL MODULATING CONTROL LOOPS TO PREVENT HUNTING. MAXIMUM RESPONSE TIME SHALL BE 30 SECONDS. ALL CONTROL LOOPS SHALL BE TUNED TO PROVIDE FOR STABLE OPERATION OF THE CONTROL DEVICE. LOOP TUNING MAY BE REQUIRED TO BE PERFORMED MULTIPLE TIMES DURING MULTIPLE CONTROL SCENARIOS.
   - I. ALL INSTALLED CONTROL DEVICES SHALL BE INSTALLED IN SUCH A WAY TO BE ACCESSIBLE FOR MAINTENANCE AND REPAIR.
   - J. DAMPER END SWITCHES SHALL BE INTERLOCKED VIA HARDWIRE TO THE START/STOP FUNCTION OF ITS ASSOCIATED FAN.
2. WIRING
   - A. PROVIDE ALL CONTROLS, LOW VOLTAGE CONTROL WIRING, HARDWARE POINTS (ANALOG IN, ANALOG OUT, BINARY IN, BINARY OUT) AND ACCESSORIES AS REQUIRED TO PERFORM THE CONTROL SEQUENCES INDICATED. ADDITIONALLY, PROVIDE HARDWARE POINTS INDICATED REGARDLESS THAT SUCH POINTS MAY NOT BE REQUIRED TO PERFORM THE CONTROL SEQUENCES INDICATED.
   - B. POWER WIRING SHALL COMPLY WITH REQUIREMENTS OF DIVISION 26 SECTIONS.
   - C. PROVIDE NORMAL, [AND STANDBY] [AND EMERGENCY POWER] WIRING TO ALL CONTROL DEVICES, INCLUDING CONTROL PANELS, WORKSTATION AND HOST COMPUTERS.
   - D. ELECTRICAL CIRCUITS FOR ALL CONTROLS SHALL BE DEDICATED ONLY TO THE BUILDING AUTOMATION CONTROL SYSTEM AND COMPONENTS. ALL WIRING FROM AND INCLUDING DEDICATED CIRCUIT BREAKERS TO THE POINT OF USE SHALL BE PROVIDED.
3. SAFETIES:
   - A. SAFETY DEVICES SUCH AS FREEZESTATS, SMOKE DETECTION, AND HIGH STATIC PRESSURE SWITCHES SHALL BE MANUAL RESET AND SHALL PERFORM ALL ASSOCIATED SHUTDOWN/FAILSAFE ACTIONS VIA HARDWIRING. SOFTWARE SHALL NOT BE USED TO EXCLUSIVELY PERFORM ANY SHUTDOWN/FAILSAFE ACTIONS FROM SAFETYDEVICES. FOR EXAMPLE, FREEZESTATS SHALL SHUT OFF FAN, FULLY OPEN COIL VALVE, AND CLOSE OUTSIDE AIRDAMPER VIA HARDWIRING WITHOUT RELYING ON ANY SOFTWARE FUNCTIONS. SOFTWARE SHUTDOWN/FAILSAFE SHALL BE PROVIDED AS A REDUNDANT BACKUP TO THE REQUIRED HARDWIRED SHUTDOWNS.
   - B. DEVICES SUCH AS CUH AND UH SHALL OPERATE ON A SOFT PERMISSIVE, ONLY ALLOWING FANS TO START AND CONTROL VALVES TO OPEN WHEN SYSTEM IS IN HEATING MODE, USE OF AQUASTATS IS NOT ACCEPTABLE.
   - C. SAFETY DEVICES SHALL FUNCTION AND SHUT DOWN THE ASSOCIATED EQUIPMENT WHEN THE MANUAL SWITCHES ARE IN BOTH THE HAND AND AUTO POSITIONS.
4. ALARMS:
   - A. REFER TO SEQUENCES FOR ALARM FUNCTIONS. WHENEVER AN ALARM IS INITIATED, THE BAS SHALL RETAIN IN MEMORY THE READING AND SETPOINT OF EACH ASSOCIATED DEVICE TO HELP THE OPERATOR IN ISOLATING THE CAUSE OF THE ALARM.
   - B. IF ANY DDCFP OR EQUIPMENT MANUFACTURER'S CONTROL PANEL LOSES COMMUNICATION WITH THE BAS NETWORK, AN ALARM SHALL BE INITIATED AT THE BAS INDICATING THE LOCATION OF THE FAULT.
   - C. WHENEVER A PIECE OF EQUIPMENT IS TAKEN OFFLINE FOR MAINTENANCE, ALARMS RELATED TO THIS PIECE OF EQUIPMENT SHALL BE TEMPORARILY DISABLED.
5. ROOM SENSORS
   - A. FOR REGULARLY OCCUPIED SPACES, PROVIDE WALL MOUNTED ROOM SENSORS WITH INTEGRAL LCD DISPLAY AND USER INTERFACE TO DISPLAY AND ADJUST SETPOINT, MODE AND STATUS.
   - B. FOR CORRIDORS, RESTROOMS, VESTIBULES, STORAGE ROOMS, JANITOR CLOSETS, ELECTRICAL CLOSETS, DATA CLOSETS/ROOMS, AND MECHANICAL ROOMS, PROVIDE WALL MOUNTED, BRUSHED CHROME, WALL PLATE TYPE SENSORS.
6. HISTORIES, TRENDS AND REPORTS
   - A. THE BAS SHALL RETAIN IN MEMORY AT ALL TIMES 5 MINUTES OF TREND DATA (OR LAST 5 READINGS WHICHEVER IS LONGER) FOR EACH CONTROL POINT OR VARIABLE. RESOLUTION OF THIS SHALL NOT EXCEED ONE READING PER 15 SECOND INTERVAL.
   - B. BAS SHALL RETAIN ONE YEAR (ROLLING) OF DATA FOR ALL CONTROL POINTS IN TEN MINUTE INTERVALS.
   - C. USER SHALL BE ABLE TO SELECT TABULAR OR GRAPHICAL OUTPUT OF DATA. GRAPHIC DATA SHALL BE AVAILABLE IN USER SELECTABLE COLOR OR BACK AND WHITE VERSIONS.
   - D. TABULAR DATA SHALL BE MADE AVAILABLE IN COMMA SEPARATED VALUES OR IN FORMAT COMPATABLE WITH MICROSOFT EXCEL SOFTWARE.
   - E. WHENEVER A UNIT IS SHUT DOWN BECAUSE OF ONE OF IT'S SAFETIES, THE BAS SHALL RETAIN IN MEMORY THE READING AND SETPOINT OF EACH ASSOCIATED DEVICE TO HELP THE OPERATOR IN ISOLATING THE CAUSE OF THE SHUT DOWN.

DEMOLITION NOTES

DEMOLITION NOTES

1. SITE VISIT: THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. BEFORE SUBMITTING BID, VISIT AND CAREFULLY EXAMINE SITE TO IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVER.
2. PREPARATORY WORK: BEFORE STARTING WORK IN A PARTICULAR AREA OF THE PROJECT, VISIT SITE AND EXAMINE CONDITIONS UNDER WHICH WORK MUST BE PERFORMED INCLUDING PREPARATORY WORK DONE UNDER OTHER SECTIONS OR CONTRACTS BY OWNER. REPORT CONDITIONS THAT MIGHT AFFECT WORK ADVERSELY IN WRITING TO ARCHITECT AND OWNER. DO NOT PROCEED WITH WORK UNTIL DEFECTS HAVE BEEN CORRECTED AND CONDITIONS ARE SATISFACTORY. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS AND PREPARATORY WORK.
3. PHASING: DEMOLITION WORK SHALL COMPLY WITH THE PHASING REQUIREMENTS OF THE PROJECT AND BE COORDINATED WITH THE OWNER, ARCHITECT, CM AND ENGINEER. NO REMOVALS SHALL BE IMPLEMENTED WITHOUT A THOROUGH UNDERSTANDING OF THE PHASING REQUIREMENTS.
4. ABANDONING OF DUCTWORK, PIPING OR EQUIPMENT IN PLACE WITHIN SCOPE AREA IS PROHIBITED.
5. PROVIDE 2 WEEKS NOTICE TO OWNER FOR SHUT DOWN OF ANY SERVICES AND/OR SYSTEMS.
6. COORDINATE EXISTING EQUIPMENT AND MATERIALS THAT SHALL REMAIN THE PROPERTY OF THE OWNER. ITEMS OF VALUE WHICH ARE NOT DIRECTED TO BE RETURNED TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF. STORAGE OR SALE OF ITEMS ON THE PROJECT SITE IS PROHIBITED.
7. PROTECTION: ENSURE THE SAFE PASSAGE OF PERSONS IN AND AROUND THE BUILDING DURING DEMOLITION. PREVENT INJURY TO PERSONS AND DAMAGE TO PROPERTY. PROVIDE ADEQUATE SHORING AND BRACING TO PREVENT COLLAPSE. IMMEDIATELY REPAIR DAMAGED PROPERTY TO THE CONDITION BEFORE BEING DAMAGED. TAKE EFFECTIVE MEASURES TO PREVENT WINDBLOWN DUST.
8. UTILITIES: MAINTAIN ALL UTILITIES EXCEPT THOSE REQUIRING REMOVAL OR RELOCATION. KEEP UTILITIES IN SERVICE AND PROTECT FROM DAMAGE. DO NOT INTERRUPT UTILITIES SERVING OCCUPIED AREAS WITHOUT FIRST OBTAINING PERMISSION FROM THE OWNER IN WRITING. PROVIDE TEMPORARY SERVICES AS REQUIRED.
9. INFORMATION CONTAINED ON THESE DRAWINGS WAS OBTAINED FROM ARCHIVED DRAWINGS AND SITE VISITS. DRAWINGS ARE DIAGRAMMATIC ONLY AND REFLECT OVERALL SYSTEM REMOVAL. NOT EVERY ITEM OR COMPONENT OF A SYSTEM IS SHOWN. PROVIDE COMPLETE REMOVAL OF ASSOCIATED ANCILLARY PIPES, HANGERS, VALVES AND ACCESSORIES SERVING SYSTEM SHOWN.
10. DEMOLITION WORK SHALL COMPLY WITH OSHA, EPA AND APPLICABLE STATE AND LOCAL CODES. COMPLY WITH HAULING AND DISPOSAL REGULATIONS.
11. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS AND PROCEDURES.

PRE-DEMO TESTING, ADJUSTING AND BALANCING (TAB)

1. CONFIRM SUPPLY, RETURN AND EXHAUST SYSTEM AIRFLOW CAPACITY THROUGH PRE-CONSTRUCTION TESTING AND BALANCING OF SYSTEMS AFFECTED BY THE WORK. REPORTS SHALL INCLUDE COMPLETE FAN INFORMATION, CFM, ESP, TSP, RPM, VOLTS, AMPS AND VFD SPEEDS.
2. CONFIRM HYDRONIC SYSTEM CAPACITY THROUGH PRE-CONSTRUCTION TESTING AND BALANCING REPORTS OF SYSTEMS AFFECTED BY THE WORK. REPORTS SHALL INCLUDE PIPE SIZE, FLOW RATE, SUPPLY PRESSURE AND RETURN PRESSURE.
3. CONFIRM STEAM PIPING CAPACITY THROUGH PRE-CONSTRUCTION TESTING AND BALANCING REPORTS OF SYSTEMS AFFECTED BT THE WORK. REPORTS SHALL INCLUDE PIPE SIZE AND STEAM PRESSURE (PSIG).

GENERAL NOTES

GENERAL

1. GENERAL NOTES, SYMBOLS AND DETAILS ARE APPLICABLE TO ALL DRAWINGS WITHIN DIVISION 23.
2. DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE CAPACITY, SIZE, APPROXIMATE LOCATION AND GENERAL ARRANGEMENT. DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
3. COORDINATE ROOF AND WALL PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. COORDINATE SLAB PENETRATIONS WITH WORK OF OTHER SECTIONS.
4. RUN DUCTS AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE OR AS APPROVED BY THE ARCHITECT.
5. INSTALL SENSORS (TEMPERATURE, HUMIDITY, CO2, THERMOSTATS) AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY ARCHITECT. MOUNTING HEIGHT AFF SHALL COMPLY WITH ADA AND SHALL BE MOUNTED LEVEL WITH ADJACENT SWITCHES (IE LIGHT SWITCHES).
6. COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS AND WITH ALL TRADES INVOLVED. PROVIDE OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS.
7. NOT ALL ACCESS DOORS HAVE BEEN SHOWN ON THE PLANS FOR CLARITY. PROVIDE ACCESS PANELS THROUGH BUILDING ASSEMBLIES TO SERVICE AND MAINTAIN EQUIPMENT UNLESS SUCH EQUIPMENT IS INSTALLED IN EXPOSED LOCATIONS OR ABOVE LAY-IN CEILINGS. COORDINATE THE LOCATION OF ACCESS DOORS AND PANELS AND VERIFY THE EXACT QUANTITY, SIZE, AND LOCATIONS AFTER THE SYSTEMS AND EQUIPMENT REQUIRING ACCESS HAVE BEEN INSTALLED AND PRIOR TO THE CLOSURE OF THE AFFECTED CEILINGS AND BUILDING ASSEMBLIES. OBTAIN APPROVAL FOR ALL PANEL LOCATIONS FROM ARCHITECT.
8. AT SUBSTANTIAL COMPLETION, THE FOLLOWING ITEMS, NEW OR EXISTING, SHALL BE FULLY AND REASONABLY ACCESSIBLE: HVAC CONTROL BOXES, JUNCTION BOXES, VALVES, DDC CONTROL BOXES, ELECTRICAL PANELS, FILTERS, BELTS, WATER COILS, DISCONNECT SWITCHES AND ELEMENTS OF EQUIPMENT REQUIRING MAINTENANCE. "FULLY AND REASONABLY ACCESSIBLE" SHALL BE DEFINED AS NATIONAL ELECTRIC CODE REQUIRED CLEARANCE FOR POWERED EQUIPMENT AND CAPABLE OF BEING ACCESSED OR SERVICED WITHOUT REMOVING, MODIFYING OR DISTORTING OTHER COMPONENTS OF THE WORK. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE FOR ALL EQUIPMENT.
9. SUPPORT EQUIPMENT, PIPING AND DUCTWORK FROM BUILDING STRUCTURE OR WITH STEEL SUPPORTS AND PLATFORMS AS REQUIRED. PROVIDE VIBRATION ISOLATION FOR ROTATING EQUIPMENT, DUCTWORK AND PIPING IN ACCORDANCE WITH THE SPECIFICATIONS.
10. ROOF CURB AND RAIL HEIGHTS INDICATED ARE THE DIMENSIONS BETWEEN THE ROOF SURFACE AND THE TOPS OF THE CURBS AND RAILS. WHERE THE ROOF IS PITCHED, CONSTRUCT CURBS AND RAILS SUCH THAT THE BOTTOM PITCHES WITH THE ROOF AND THE TOP IS LEVEL.
11. CONTROL WIRING METHODS SHALL COMPLY WITH NEC, AND DIVISION 26 SPECIFICATIONS.
12. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S DRAWINGS. VERIFY AND PROVIDE FITTINGS TO TRANSITION TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
13. PERFORM PRESSURE AND LEAKAGE TESTS BEFORE INSULATING DUCTWORK AND PIPING

AIR SYSTEM SPECIFIC NOTES:

1. REFER TO SPECIFICATIONS FOR DUCTWORK CONSTRUCTION CLASSES, SEAL, AND LEAKAGE CLASSES.
2. EXTERIOR LOUVERS ARE INDICATED FOR LOCATION ONLY. DETAILED DESCRIPTIONS ARE PROVIDED IN ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
3. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED TO THE FIRE ALARM SYSTEM. MOUNT THE DETECTORS IN DUCTWORK, WHERE REQUIRED BY CODE AND DIVISION 23. ASSOCIATED FAN SYSTEM SHALL SHUT DOWN UPON DETECTION OF SMOKE.
4. PROVIDE UL FIRE DAMPERS OR SMOKE/FIRE DAMPERS AND ASSOCIATED ACCESS PANELS WHERE SHOWN ON DRAWINGS IN COMPLIANCE WITH NFPA 90A. FOR DUCTS THAT PENETRATE FIRE WALLS, FLOORS AND PARTITIONS PROVIDE SLEEVES WHERE PENETRATIONS ARE NOT PERPENDICULAR TO SURFACE PENETRATED.
5. REFER TO REFLECTED CEILING PLANS FOR LOCATIONS OF AIR TERMINAL DEVICES.
6. INTERNAL AIR FLOW DIMENSIONS ARE SHOWN FOR DUCTS. CONTRACTOR SHALL INCREASE SHEETMETAL SIZE FOR LINER IF APPLICABLE.
7. DIFFUSER SIZES SHOWN ARE NECK SIZES; REGISTER AND GRILLE SIZE ARE NOMINAL. ALL ROUND RUN OUTS TO DIFFUSERS SHALL BE THE SAME NOMINAL SIZE AS THE SCHEDULED NECK SIZE, UNLESS NOTED AS LARGER. DUCT TRANSITIONS SHALL BE PROVIDED AS NECESSARY AT INLET TO DIFFUSER.
8. PROVIDE FLEXIBLE CONNECTIONS ON ALL DUCTS CONNECTING TO FANS AND AIR HANDLING UNITS UNLESS INTERNALLY ISOLATED.
9. THE INSIDE OF DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK.
10. ALL RETURN AIR OPENINGS ABOVE CEILING SHALL BE PROVIDED WITH A 1/4" MESH ALUMINUM OR GALVANIZED SCREEN (80% FREE AREA MINIMUM).
11. ELBOWS IN DUCT SYSTEMS SHALL BE FULL RADIUS (CENTERLINE RADIUS = 1.5 DUCT WIDTH) WHERE SPACE PERMITS. WHERE LIMITED CLEARANCE OCCURS, PROVIDE SHORT RADIUS ELBOW WITH FULL LENGTH SPLITTER VANES PER SMACNA, OR MITERED ELBOW WITH TURNING VANES PER SMACNA.
12. NOT ALL MANUAL DAMPERS ARE SHOWN ON THE DRAWINGS IN ORDER FOR DRAWING CLARITY. PROVIDE MANUAL ADJUSTABLE DAMPERS ON EACH LOW PRESSURE SUPPLY, RETURN, AND EXHAUST DUCT TAKE OFF, AND AT EACH TAKE OFF TO REGISTERS, GRILLES, DIFFUSERS, AND OED; AS REQUIRED FOR PROPER BALANCE OF SYSTEM. PROVIDE CABLE OPERATED DAMPERS WHERE MANUAL DAMPER IS INACCESIBLE.
13. WHERE DUCTS PENETRATE WALLS WITH SOUND ISOLATION PERFORMANCE RATINGS, PROVIDE DUCT SLEEVE SIZED TO PROVIDE 1/4" GAP BETWEEN THE SLEEVE AND DUCT. FILL THE GAP WITH FIBEROUS MATERIAL AND SEAL AIRTIGHT WITH NON-HARDENING ACOUSTIC SEALANT

PIPING SYSTEM SPECIFIC NOTES:

1. PIPE CONDENSATE DRAIN LINES FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, CONNECTED TO BUILDING DRAINAGE SYSTEMS WITH AIR GAP. SIZE DEPTH OF TRAP FOR ASSOCIATED AIR PRESSURE DIFFERENTIAL.
2. PROVIDE HANGERS, CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING EXCEEDING ASME ALLOWABLE STRESS ON PIPING MATERIALS.
3. PROVIDE PIPE EXPANSION JOINTS WHERE PIPES PASS THROUGH BUILDING EXPANSION JOINTS. REVEW ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS.
4. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
5. THOUGH SOME ISOLATION VALVES ARE SHOWN ON THE DRAWINGS, IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL ISOLATION VALVES. PROVIDE ISOLATION VALVES AT CONNECTIONS TO EQUIPMENT AND AS REQUIRED BY SPECIFICATIONS AND DETAILS.

FIRESTOPPING NOTES:

1. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE OR SMOKE WALLS, BARRIERS AND PARTITIONS AS REQUIRED TO MAINTAIN RATING. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALL RATINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
AH	AIR HANDLER
AHU	AIR HANDLING UNIT
ASHP	AIR SOURCE HEAT PUMP
B	BOILER
CUH	CABINET UNIT HEATER
CRAC	COMPUTER ROOM AC UNIT
CP	CONDENSATE PUMP
CU	CONDENSING UNIT
CV	CONVECTOR
DAC	DUCTLESS AIR CONDITIONING UNIT
DHP	DUCTLESS HEAT PUMP
DOAS	DEDICATED OUTDOOR AIR SYSTEM
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
EF	EXHAUST FAN
EG	EXHAUST GRILLE
F	FAN
HP	HEAT PUMP UNIT
HWC	HOT WATER COIL
HWP	HOT WATER PUMP
LB	LINEAR BAR GRILLE
LS	LINEAR SLOT DIFFUSER
P	PUMP
RHC	REHEAT COIL
RF	RETURN FAN OR RELIEF FAN
RTU	ROOFTOP UNIT
SA	SOUND ATTENUATOR
SD	SUPPLY DIFFUSER
SG	SUPPLY GRILLE
UH	UNIT HEATER

PIPING LEGEND

SYMBOL - DOUBLE LINE	DESCRIPTION
	SUPPLY PIPING
	RETURN PIPING
	PIPE RISE
	PIPE DROP
	BLIND FLANGE
	BLIND FLANGE WITH TAP
	END CAP
	REDUCER (ECCENTRIC-FLAT ON BOTTOM OR FLAT ON TOP)
	REDUCER (CONCENTRIC)
	UNION

SYMBOL - SINGLE LINE	DESCRIPTION
	SUPPLY PIPING
	RETURN PIPING
	ELBOW UP
	ELBOW DOWN
	TEE TOWARDS (UP IN PLAN)
	TEE AWAY (DOWN IN PLAN)
	DROP AND RUN
	DIRECTION OF FLOW
	DIRT LEG
CO	CLEANOUT
	BLIND FLANGE
	END CAP
	REDUCER (ECCENTRIC-FLAT ON BOTTOM OR FLAT ON TOP)
	REDUCER (CONCENTRIC)
HWS	HEATING HOT WATER SUPPLY
HWR	HEATING HOT WATER RETURN
CD	CONDENSATE DRAIN
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
RG	REFRIGERANT GAS

GENERAL ABBREVIATIONS

AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AWT	AVERAGE WATER TEMPERATURE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BREAK HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
BTUH	BTU / HOUR
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CAP	CAPACITY
COP	COEFFICIENT OF PERFORMANCE
CFM	CUBIC FEET PER MINUTE
CUFT	CUBIC FEET
dB	DECIBELS
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DN	DOWN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE (DRY BULB)
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
ELEC	ELECTRICAL
ER	EXISTING TO BE RELOCATED
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
FD	FIRE DAMPER
FT	FEET
FT WG	FEET WATER GAUGE
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FSD	COMBINATION FIRE SMOKE DAMPER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRD	GRILLE, REGISTER, DIFFUSER
HD	HEAD
HP	HORSEPOWER
HSPF	HEATING SEASON PERFORMANCE FACTOR
HZ	HERTZ
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IN	INCHES
IN WG	INCHES WATER GAUGE
IPLV	INTEGRATED PART LOAD VALUE
KW	KILOWATTS
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MECH	MECHANICAL
MBH	THOUSANDS OF BTU / HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OAT	OUTSIDE AIR TEMPERATURE
OD	OUTER DIAMETER
OED	OPEN ENDED DUCT
PH	PHASE
PLBG	PLUMBING
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SG	SIGHT GLASS
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DROP
SST	SATURATED SUCTION PRESSURE
SQFT / SF	SQUARE FEET
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL
UOI	UNLESS OTHERWISE INDICED
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VTR	VENT THRU ROOF
W	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP
X	DEMOLISH

DUCTWORK LEGEND

SYMBOL	DESCRIPTION
12x6	RECTANGULAR DUCTWORK
12"ø	ROUND DUCTWORK
12/6	OVAL DUCTWORK
12x6	DUCTWORK SHOWN SINGLE LINE
	ACOUSTICALLY LINED DUCTWORK
	ACOUSTICALLY LINED DUCTWORK (SINGLE LINE)
	RECTANGULAR SUPPLY DUCTWORK TOWARDS (UP IN PLAN)
	ROUND SUPPLY DUCTWORK TOWARDS (UP IN PLAN)
	RECTANGULAR SUPPLY DUCTWORK AWAY (DOWN IN PLAN)
	ROUND SUPPLY DUCTWORK AWAY (DOWN IN PLAN)
	RECTANGULAR RETURN DUCTWORK TOWARDS (UP IN PLAN)
	ROUND RETURN DUCTWORK TOWARDS (UP IN PLAN)
	RECTANGULAR RETURN DUCTWORK AWAY (DOWN IN PLAN)
	ROUND RETURN DUCTWORK AWAY (DOWN IN PLAN)
	RECTANGULAR EXHAUST DUCTWORK TOWARDS (UP IN PLAN)
	ROUND EXHAUST DUCTWORK TOWARDS (UP IN PLAN)
	RECTANGULAR EXHAUST DUCTWORK AWAY (DOWN IN PLAN)
	ROUND EXHAUST DUCTWORK AWAY (DOWN IN PLAN)
	FLEXIBLE DUCT
	OPEN ENDED DUCT WITH WIRE MESH SCREEN
	CAPPED DUCT
	DUCT TRANSITION

AIR DEVICE LEGEND

SYMBOL	DESCRIPTION
	SUPPLY DIFFUSER
	RETURN GRILLE OR REGISTER
	EXHAUST GRILLE OR REGISTER
	SIDEWALL SUPPLY GRILLE
	SIDEWALL RETURN OR EXHAUST GRILLE OR REGISTER
	SUPPLY DIFFUSER (BLOW INDICATED)
	LINEAR DIFFUSER
XX-# (###)	AIR DEVICE TAG (TAG NO. (AIRFLOW))

DAMPER LEGEND

SYMBOL	DESCRIPTION
	MANUAL VOLUME DAMPER
FD	FIRE DAMPER W/ACCESS DOOR
MD	MOTORIZED CONTROL DAMPER W/ACCESS DOOR
SD	SMOKE DAMPER W/SMOKE DETECTOR AND ACCESS DOOR
FSD	COMBINATION FIRE/SMOKE DAMPER W/SMOKE DETECTOR AND ACCESS DOOR
RD	RADIATION DAMPER
BD	BACKDRAFT DAMPER
AVD	AUTOMATIC VOLUME DAMPER (PRESSURE INDEPENDENT)

DIAGRAM SYMBOLS

SYMBOL	DESCRIPTION
C	COOLING COIL
H	HEATING COIL
PH	PREHEAT COIL
RH	REHEAT COIL
	FILTER BANK
	OPPOSED BLADE MOTORIZED DAMPER
	PARALLEL BLADE MOTORIZED DAMPER
	BACKDRAFT DAMPER
	CENTRIFUGAL FAN
	PLENUM / PLUG FAN

DRAWING SYMBOLS

SYMBOL	DESCRIPTION
1 / A101 SIM	CALLOUT
℄	CENTERLINE
	CONNECT TO EXISTING
	DISCONNECT FROM EXISTING
OR	KEYNOTE TAG
1	REVISION NUMBER
XXX-#	EQUIPMENT TAG
Ref 1	ELEVATION MARK
	LINE BREAK
	EXISTING LINETYPE
	NEW WORK LINETYPE
	FUTURE WORK LINETYPE
	DEMO WORK LINETYPE

CONTROLS LEGEND

PLAN SYMBOL	DIAGRAM SYMBOL	DESCRIPTION
	AI	ANALOG INPUT
	AO	ANALOG OUTPUT
	DI	DIGITAL INPUT
	DO	DIGITAL OUTPUT
AFMS	FE	AIR FLOW MEASURING STATION
C	CO2	CARBON DIOXIDE SENSOR
	IT	CURRENT SENSING RELAY AND TRANSMITTER
	DPS	DIFFERENTIAL PRESSURE SWITCH
DP	DPT	DIFFERENTIAL PRESSURE SENSOR AND TRANSMITTER
	FSD	FIRE / SMOKE DAMPER
	FCD	FLOW CONTROL DAMPER
	FCV	FLOW CONTROL VALVE
FM	FE	FLOW METER
AFS	FS	FLOW SWITCH
	HS	HAND SWITCH (USER OPERATED)
H	HE	HUMIDITY SENSOR
HL	HSH	HUMIDITY SWITCH - HIGH LIMIT
	LS	LEVEL SENSOR
	MS	MOISTURE SWITCH
	ZS	POSITION SWITCH ASSOCIATED WITH VALVE OR DAMPER
	PE	PRESSURE SENSOR
	PSH	PRESSURE SWITCH - HIGH LIMIT
	PSL	PRESSURE SWITCH - LOW LIMIT
S/D		SMOKE DETECTOR
T	TE	THERMOSTAT - DDC/BAS
	TSH	TEMPERATURE SWITCH - HIGH LIMIT
	TSL	TEMPERATURE SWITCH - LOW LIMIT
	VSH	VIBRATION SWITCH - HIGH LIMIT
BMS		DDC CONTROL PANEL NETWORKED TO BMS
VFD		VARIABLE FREQUENCY DRIVE
BYP		VFD BYPASS
VRF		VRF CONTROL PANEL

ACTUATOR LEGEND

SYMBOL	DESCRIPTION
	DAMPER OR VALVE WITH TWO POSITION ACTUATOR
	DAMPER OR VALVE WITH MODULATING ACTUATOR

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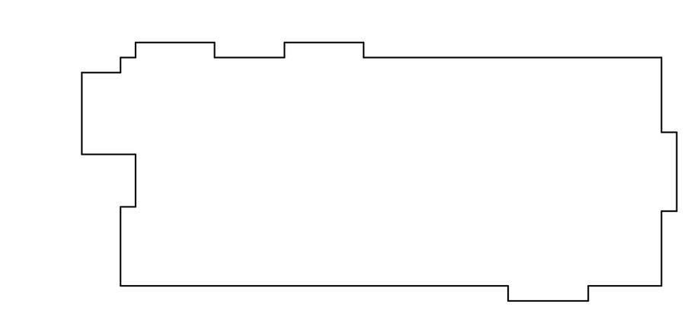

KEYPLAN

Number	Date	Issued For

MECHANICAL ABBREVIATIONS, NOTES AND SYMBOLS

Date 04/07/2022

Scale 12" = 1'-0"

Proj. Number 20287.10

Drawing Number **M000**

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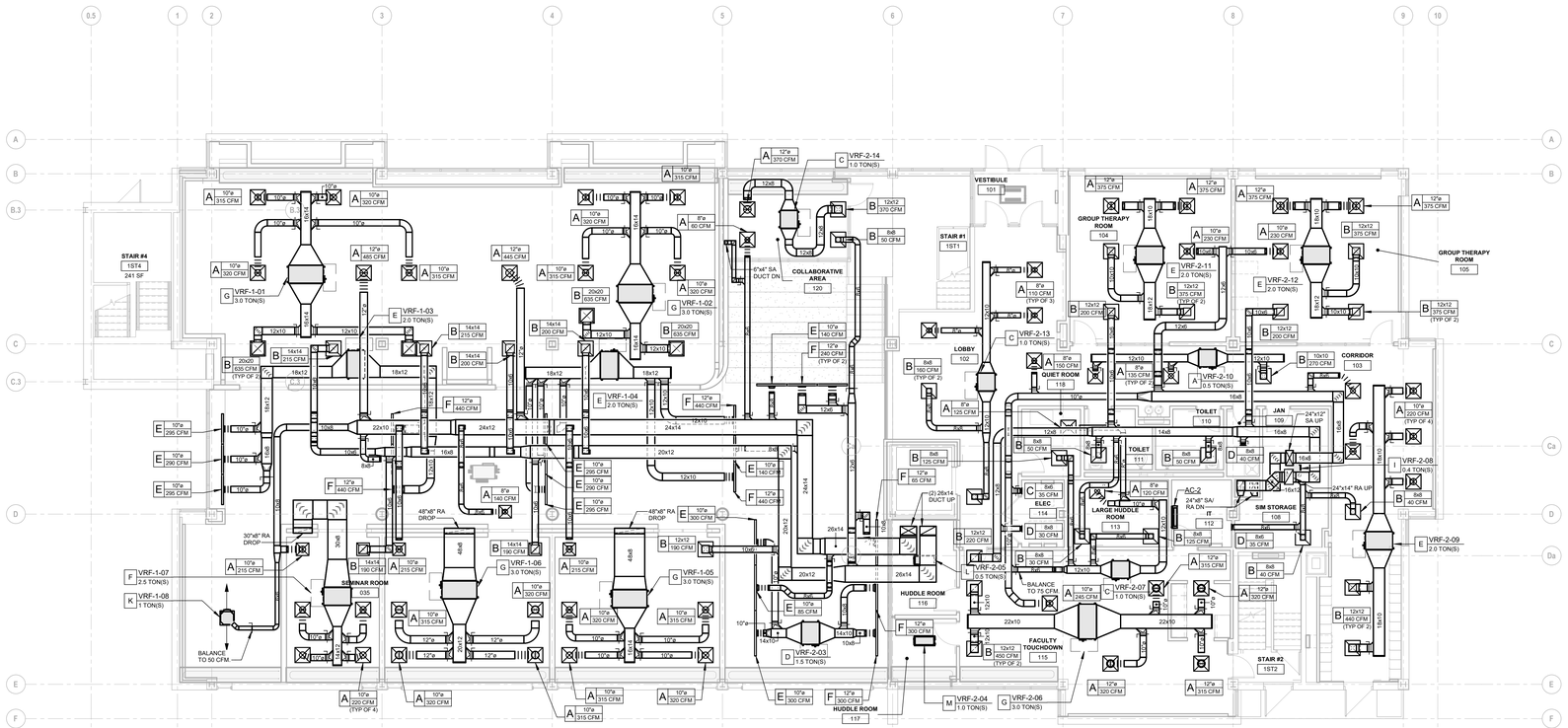
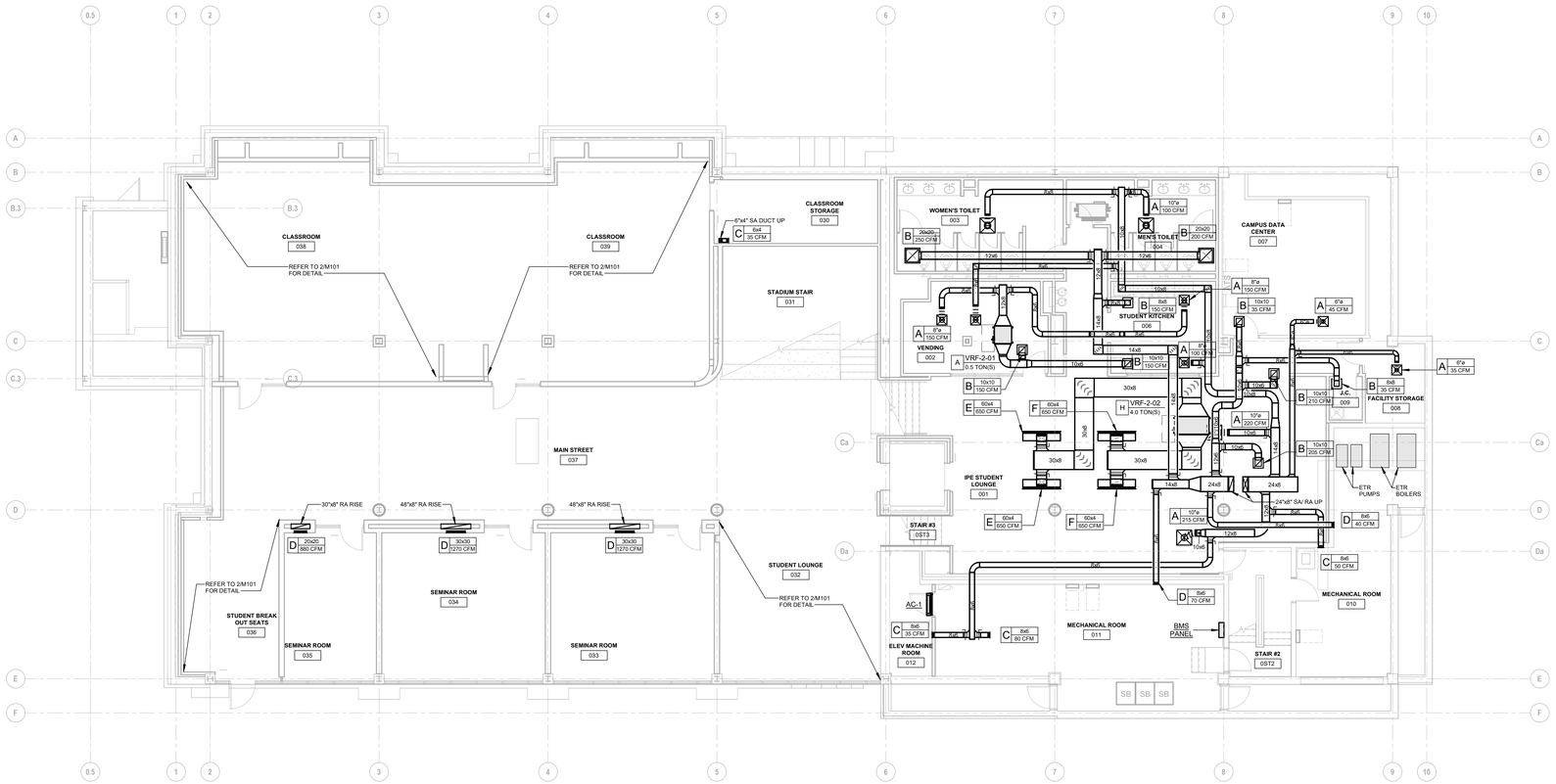


2 MECHANICAL DUCTWORK FIRST LEVEL FLOOR PLAN
1/8" = 1'-0"



1 MECHANICAL DUCTWORK BASEMENT LEVEL FLOOR PLAN
1/8" = 1'-0"

MECHANICAL NOTES

DUCT SYSTEM NOTES:

1. REFER TO M600 FOR EQUIPMENT SCHEDULES AND DRAWINGS M000 FOR EQUIPMENT SYMBOLS, LEGENDS AND ABBREVIATIONS.
2. FLEXIBLE CONNECTIONS TO DIFFUSERS SHALL NOT EXCEED 5'-0" IN LENGTH.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONSA AND INSTALLATION.
4. PROVIDE VOLUME DAMPERS AT ALL BRANCH DUCTS.

FIRESTOPPING NOTES:

1. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE OR SMOKE WALLS, BARRIERS AND PARTITIONS AS REQUIRED TO MAINTAIN RATING. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALL RATINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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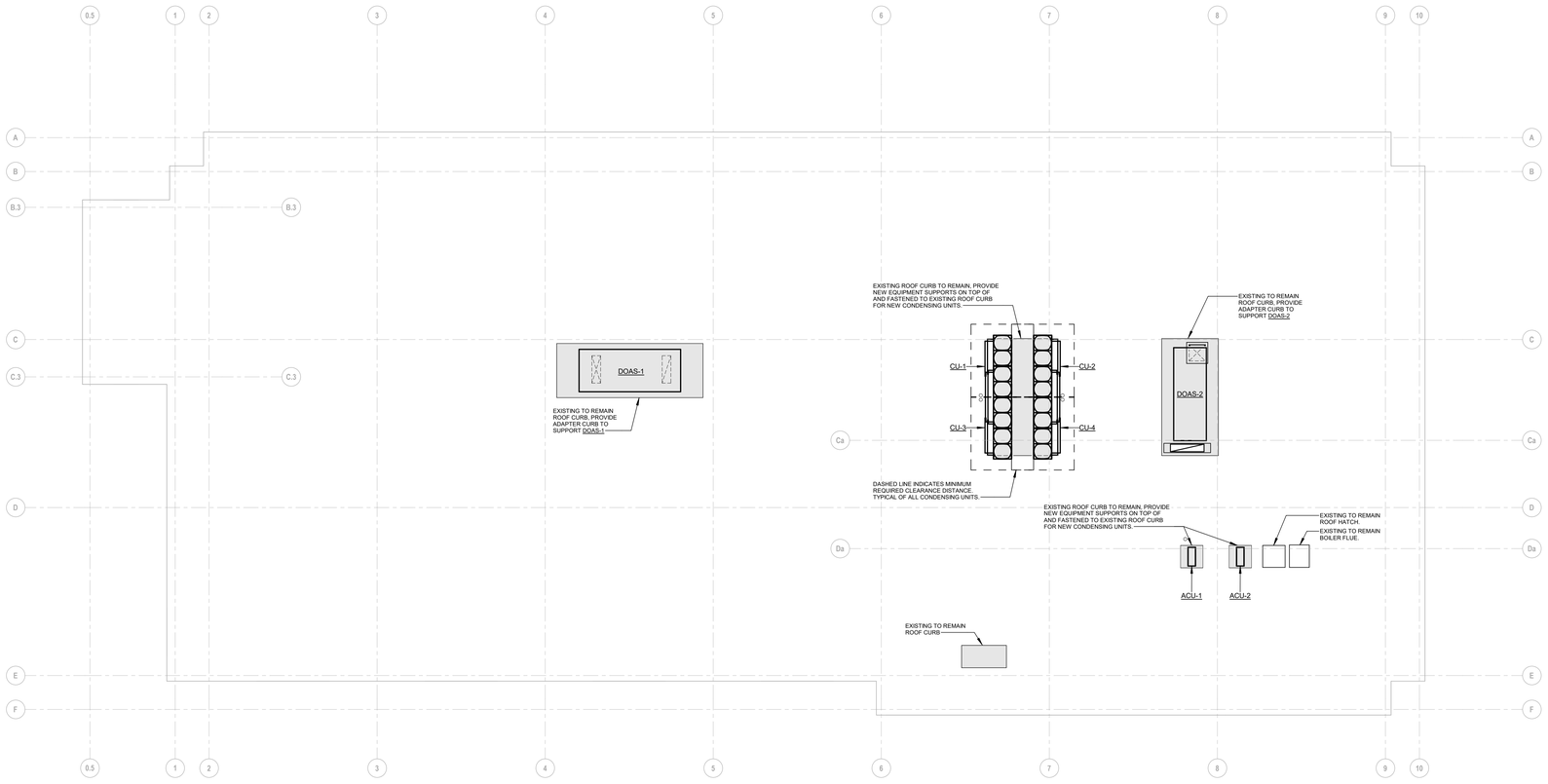
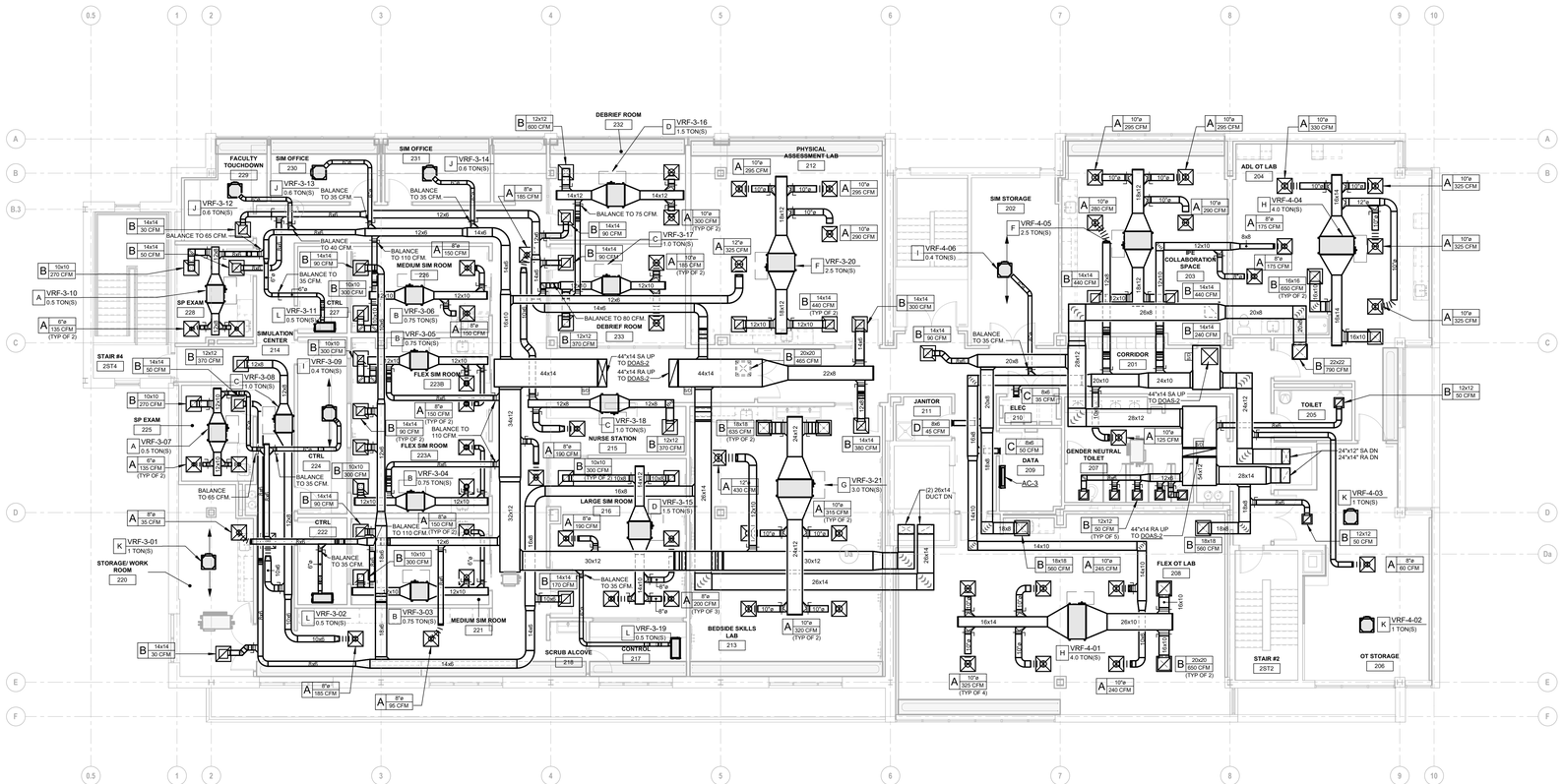
MECHANICAL DUCTWORK BASEMENT/ LOWER LEVEL AND FIRST FLOOR PLANS

Date: 04/07/2022
Scale: As indicated
Proj. Number: 20287.10
Drawing Number: M101



2 MECHANICAL ROOF LEVEL DUCTWORK AND PIPING FLOOR PLAN
1/8" = 1'-0"



1 MECHANICAL DUCTWORK SECOND LEVEL FLOOR PLAN
1/8" = 1'-0"

MECHANICAL NOTES

DUCT SYSTEM NOTES:

1. REFER TO M600 FOR EQUIPMENT SCHEDULES AND DRAWINGS M000 FOR EQUIPMENT SYMBOLS, LEGENDS AND ABBREVIATIONS.
2. FLEXIBLE CONNECTIONS TO DIFFUSERS SHALL NOT EXCEED 5'-0" IN LENGTH.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON GENERAL CONDITIONS, MATERIAL SPECIFICATIONSA AND INSTALLATION.
4. PROVIDE VOLUME DAMPERS AT ALL BRANCH DUCTS.

FIRESTOPPING NOTES:

1. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE OR SMOKE WALLS, BARRIERS AND PARTITIONS AS REQUIRED TO MAINTAIN RATING. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALL RATINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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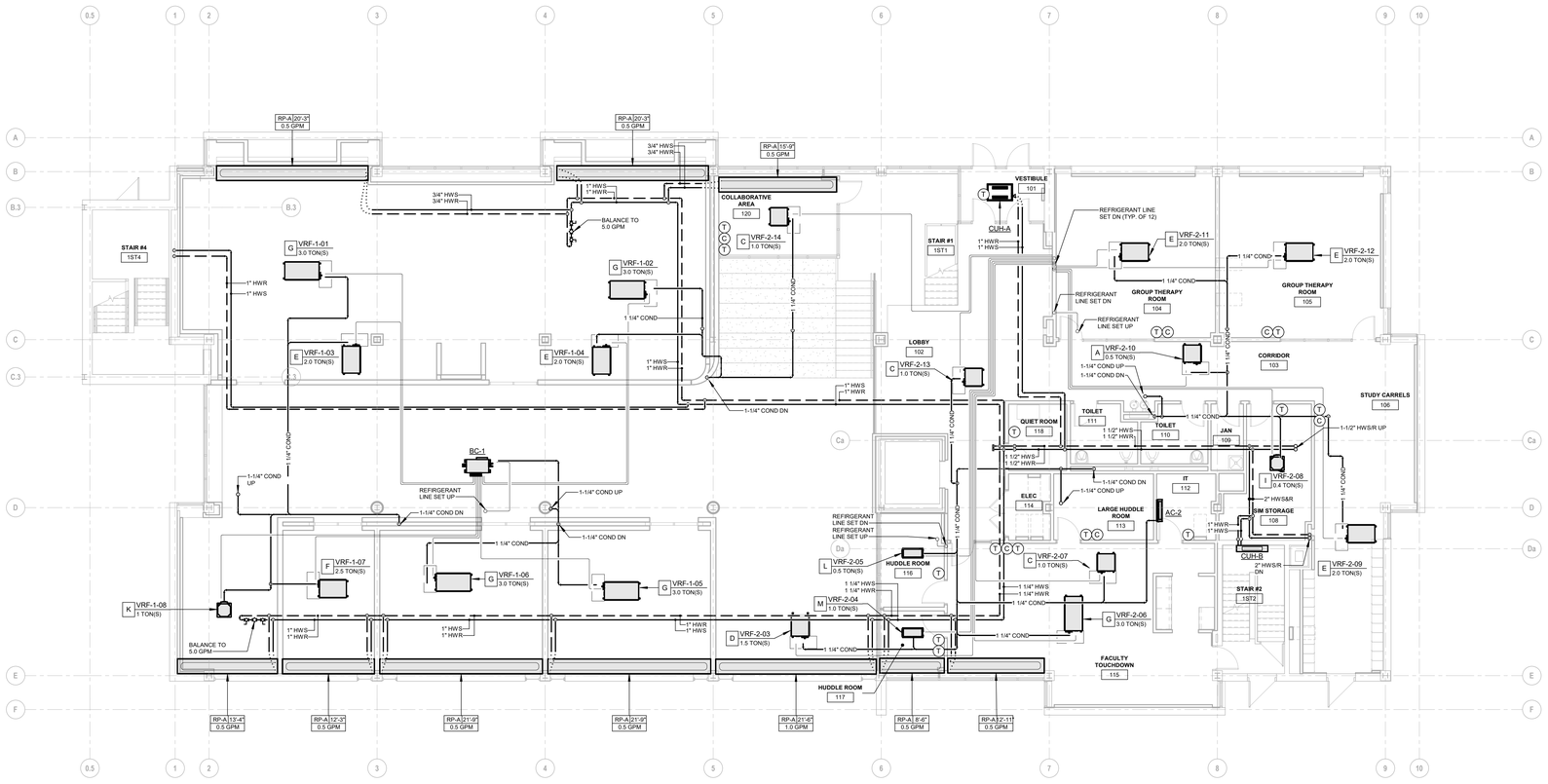
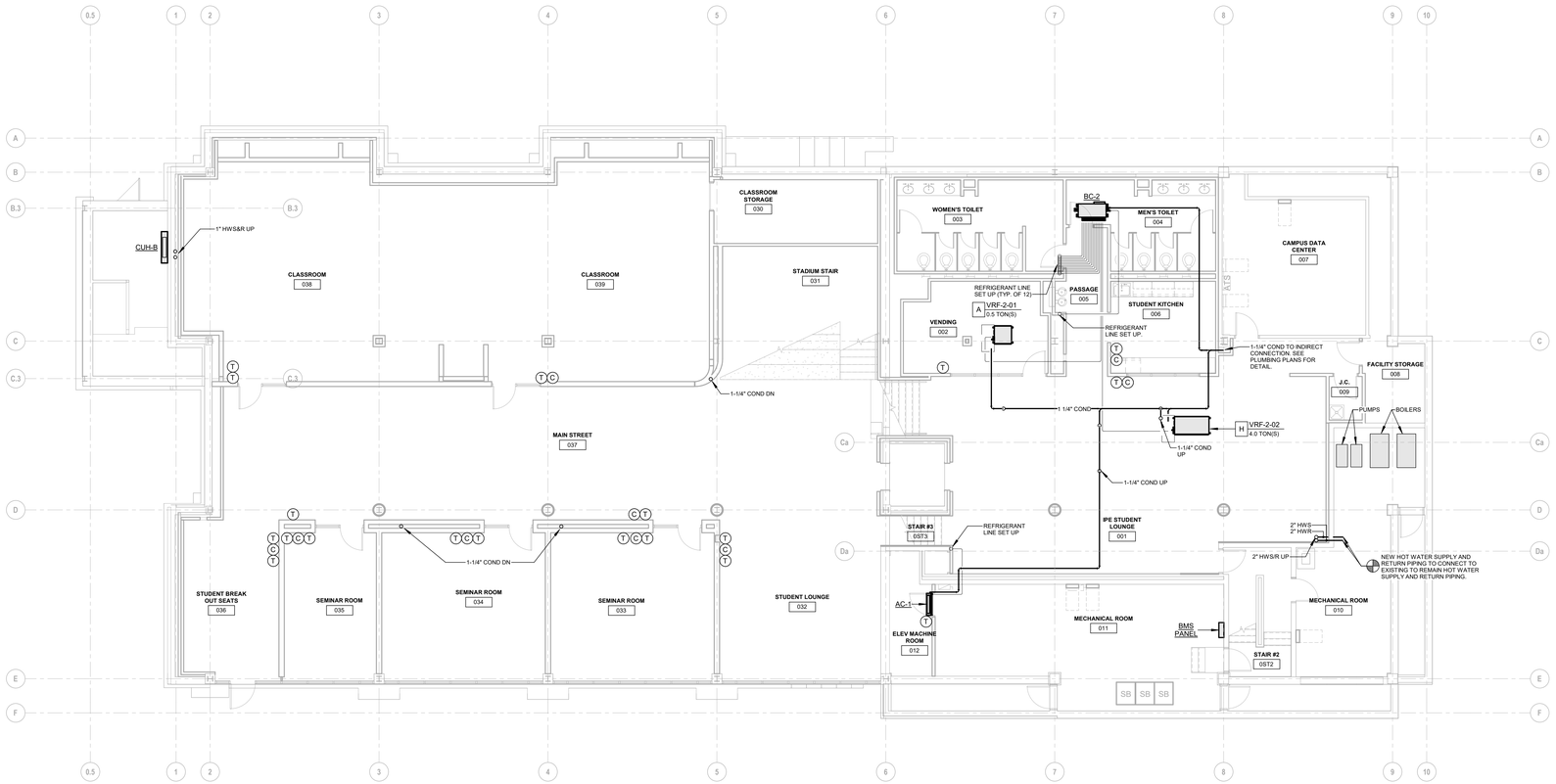
MECHANICAL SECOND FLOOR DUCTWORK AND ROOF DUCTWORK AND PIPING PLANS

Date: 04/07/2022
Scale: As indicated
Proj. Number: 20287.10
Drawing Number: M102



2 MECHANICAL PIPING FIRST LEVEL FLOOR PLAN
1/8" = 1'-0"



1 MECHANICAL PIPING BASEMENT LEVEL FLOOR PLAN
1/8" = 1'-0"

MECHANICAL PIPING NOTES

PIPING SYSTEM NOTES:

1. REFER TO M600 FOR EQUIPMENT SCHEDULES AND DRAWINGS M000 FOR EQUIPMENT SYMBOLS, LEGENDS AND ABBREVIATIONS.
2. FIELD CUT RADIANT PANELS TO ACCOMODATE COLUMN ENCLOSURES. PROVIDE "AROUND COLUMN" INTERCONNECTS AT EACH COLUMN. REFRER TO MANUFACTUERS INSTRUCTIONS/REQUIREMENTS.
3. PIPE CONDENSATE DRAIN LINES FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, CONNECTED TO BUILDING DRAINAGE SYSTEMS WITH AIR GAP. SIZE DEPTH OF TRAP FOR ASSOCIATED AIR PRESSURE DIFFERENTIAL. MINIMUM CONDENSATE PIPE SIZE SHALL BE 1".
4. PIPE BRANCHES TO RADIANT PANELS, CABINET UNIT HEATERS AND OTHER RADIATION SHALL BE MINIMUM 3/4" UNLESS OTHERWISE NOTED.
5. TEMPERATURE SENSORS INSTALLED ON BLOCK WALL AND/OR EXTERIOR WALLS SHALL HAVE INSULATED BACKING.

FIRESTOPPING NOTES:

1. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE OR SMOKE WALLS, BARRIERS AND PARTITIONS AS REQUIRED TO MAINTAIN RATING. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALL RATINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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Number	Date	Issued For

MECHANICAL PIPING BASEMENT/ LOWER LEVEL AND FIRST FLOOR PLANS

Date 04/07/2022
Scale As indicated
Proj. Number 20287.10

Drawing Number MP101

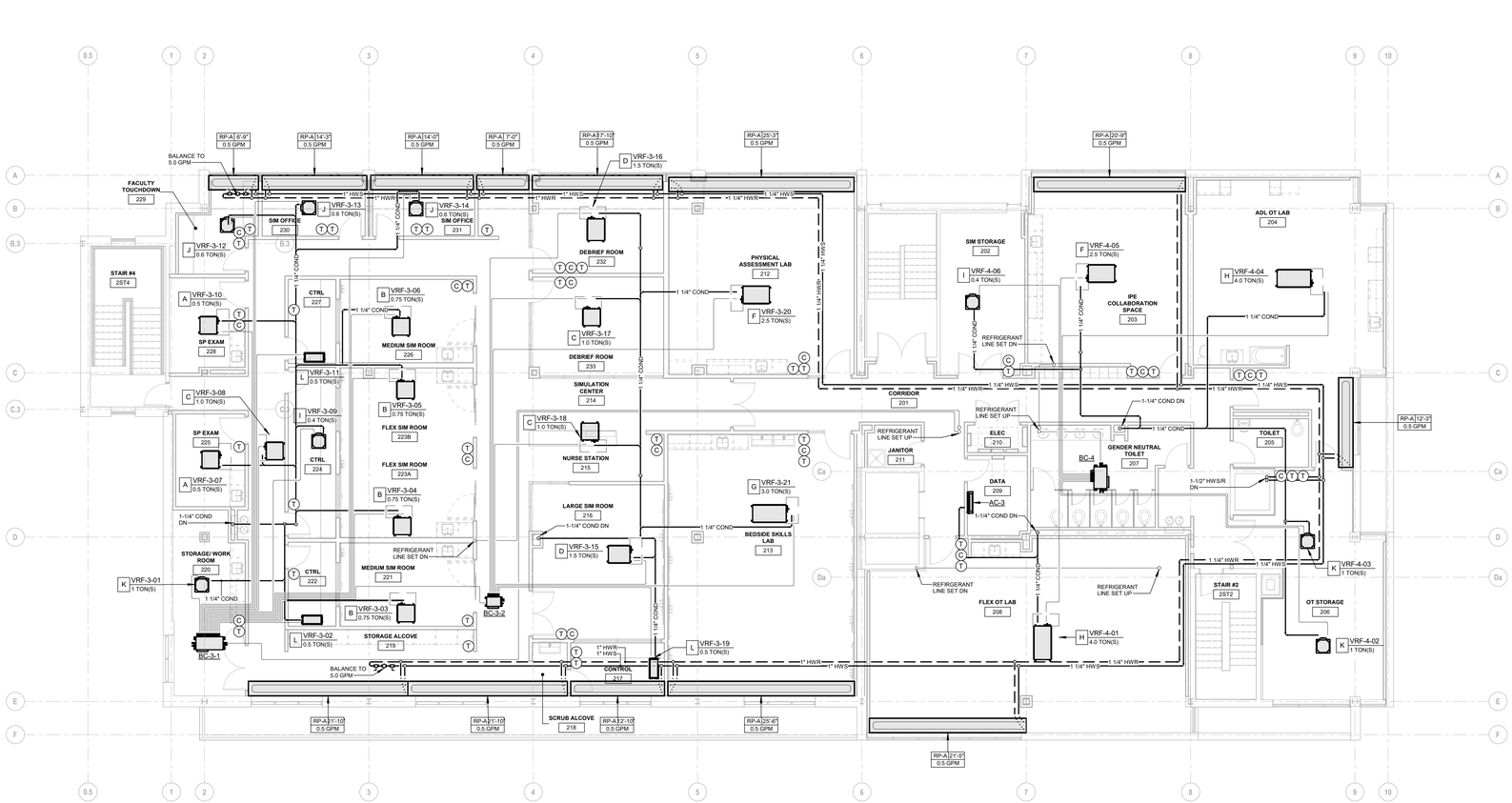
MECHANICAL PIPING NOTES

PIPING SYSTEM NOTES:

1. REFER TO M600 FOR EQUIPMENT SCHEDULES AND DRAWINGS M000 FOR EQUIPMENT SYMBOLS, LEGENDS AND ABBREVIATIONS.
2. FIELD CUT RADIANT PANELS TO ACCOMODATE COLUMN ENCLOSURES. PROVIDE "AROUND COLUMN" INTERCONNECTS AT EACH COLUMN. REFRER TO MANUFACTURERS INSTRUCTIONS/REQUIREMENTS.
3. PIPE CONDENSATE DRAIN LINES FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, CONNECTED TO BUILDING DRAINAGE SYSTEMS WITH AIR GAP. SIZE DEPTH OF TRAP FOR ASSOCIATED AIR PRESSURE DIFFERENTIAL. MINIMUM CONDENSATE PIPE SIZE SHALL BE 1".
4. PIPE BRANCHES TO RADIANT PANELS, CABINET UNIT HEATERS AND OTHER RADIATION SHALL BE MINIMUM 3/4" UNLESS OTHERWISE NOTED.
5. TEMPERATURE SENSORS INSTALLED ON BLOCK WALL AND/OR EXTERIOR WALLS SHALL HAVE INSULATED BACKING.

FIRESTOPPING NOTES:

1. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF ALL PENETRATIONS THROUGH FIRE OR SMOKE WALLS, BARRIERS AND PARTITIONS AS REQUIRED TO MAINTAIN RATING. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALL RATINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



1 MECHANICAL PIPING SECOND LEVEL FLOOR PLAN
1/8" = 1'-0"

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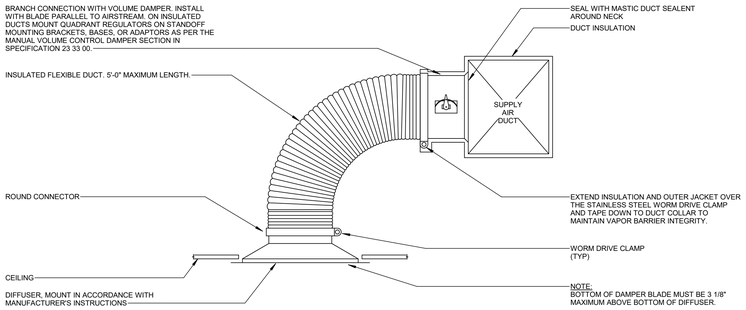
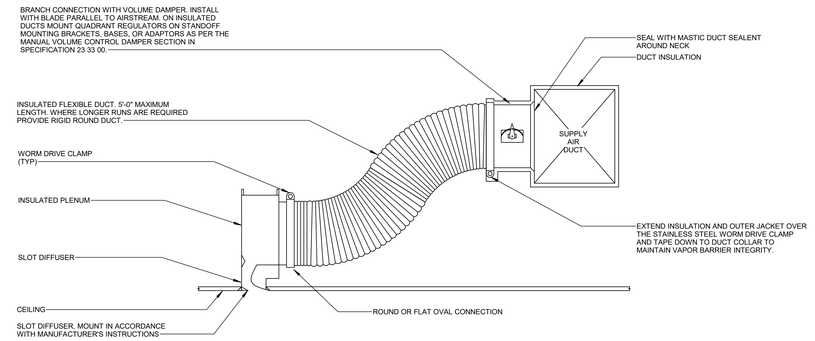


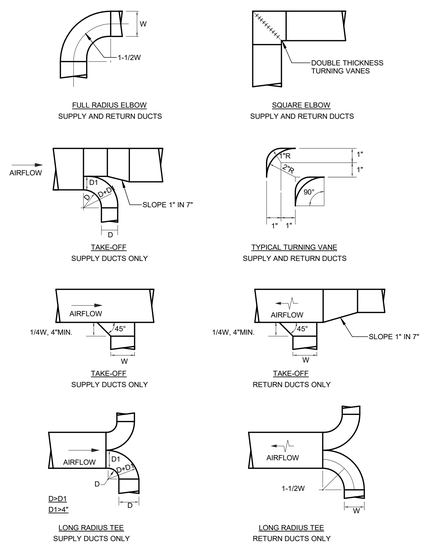
NOTES:
1. SUPPORT FLEXIBLE DUCT FROM STRUCTURE AS SPECIFIED. DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURES, CEILING SUPPORT TEES OR TILE.
2. PROVIDE REGULATORS WHERE VOLUME DAMPER IS ACCESSIBLE.
3. IN UNCONDITIONED CEILING PLENUMS, INSULATE BACK OF DIFFUSER WITH 1" DUCT WRAP AND SEAL WITH VAPOR BARRIER TAPE.

1 DIFFUSER WITH FLEX DUCT DETAIL
NTS

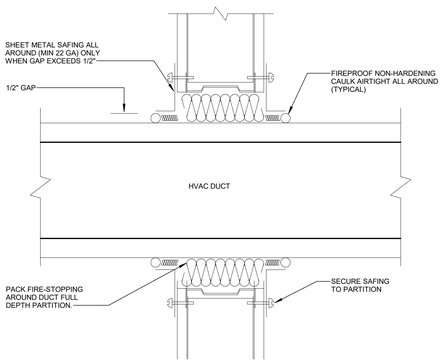


NOTES:
1. ALL INTERIOR EXPOSED SURFACES OF SLOT DIFFUSER/PLENUM ARE TO BE PAINTED FLAT BLACK.
2. SUPPORT FLEXIBLE DUCT FROM STRUCTURE AS SPECIFIED. DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURES, CEILING SUPPORT TEES OR TILE.
3. PROVIDE REMOTELY ACTIVATED VOLUME DAMPER WHERE VOLUME DAMPER IS INACCESSIBLE. VOLUME DAMPER IS TO BE ADJUSTED THROUGH FACE OF THE DIFFUSER.

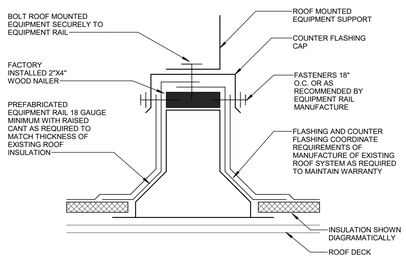
2 DIFFUSER WITH FLEX DUCT DETAIL
NTS



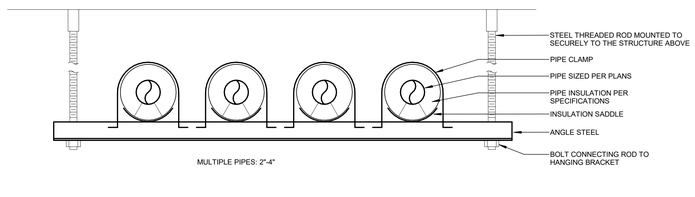
3 TYPICAL DUCT DETAILS
NTS

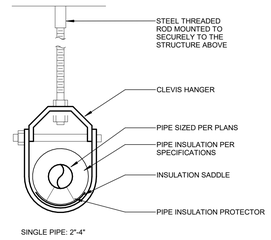


4 DUCT PENETRATION OF WALL/SLAB DETAIL
NTS

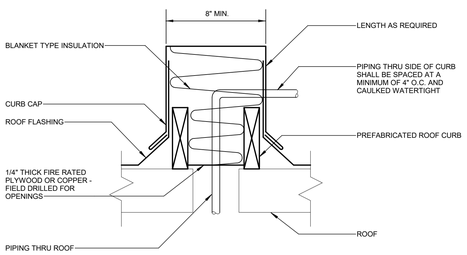


5 EQUIPMENT RAIL DETAIL
NTS

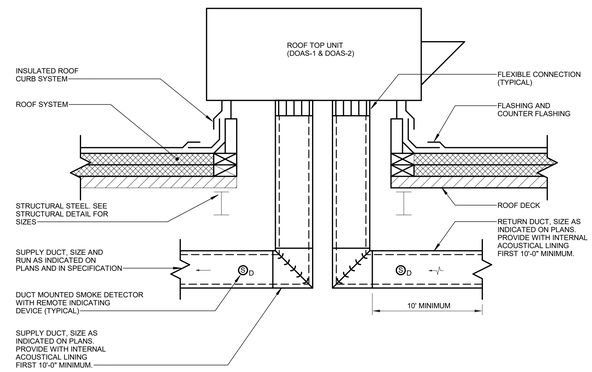




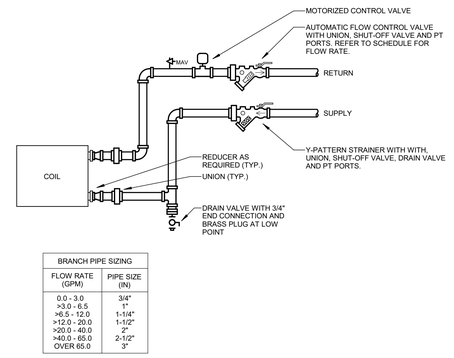
6 PIPE HANGER DETAIL
NTS



7 PIPING THRU ROOF DETAIL
NTS

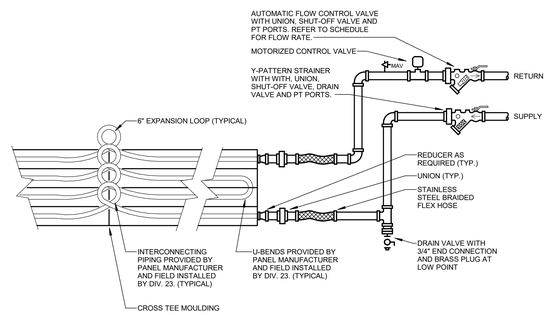


8 ROOF TOP UNIT DETAIL
NTS

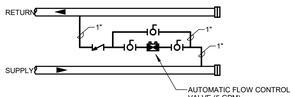


BRANCH PIPE SIZING	
FLOW RATE (GPM)	PIPE SIZE (IN)
0.0 - 3.0	3/4"
>3.0 - 6.5	1"
>6.5 - 12.0	1-1/4"
>12.0 - 20.0	1-1/2"
>20.0 - 40.0	2"
>40.0 - 65.0	2-1/2"
OVER 65.0	3"

9 COIL HOOKUP - CABINET HEATER
NTS

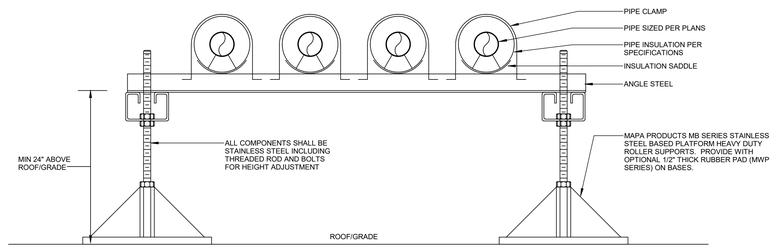


10 COIL HOOKUP - RADIANT CEILING PANEL
12" = 1'-0"



GENERAL NOTES:
1. REFER TO PLANS FOR LOCATIONS
2. VALVES SHALL BE SAME SIZE AS PIPE

11 END OF MAIN BYPASS
NTS



12 PIPE SUPPORTS
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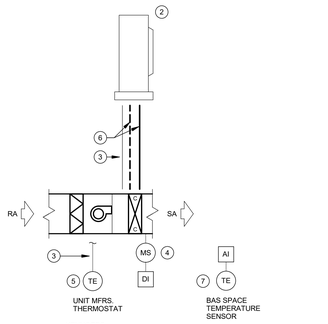


KEYNOTES

1. PACKAGED INDOOR EVAPORATOR UNIT
2. OUTDOOR CONDENSING UNIT
3. PROVIDE WIRING IN ACCORDANCE WITH UNIT MANUFACTURER'S INSTALLATION GUIDELINES
4. PLENUM RATED, UL508 CONDENSATE OVERFLOW SWITCH MOUNTED IN PRIMARY DRAIN PAN. SWITCH SHALL BE WIRED TO DE-ENERGIZE UNIT UPON DETECTION OF OF RISING WATER (BLOCKED DRAIN) AND GENERATE [A LOCAL BUZZER ALARM] [AN ALARM THROUGH THE BAS].
5. LOCAL WALL-MOUNTED THERMOSAT
6. REFRIGERANT LIQUID AND SUCTION LINES SIZED PER MANUFACTURER
7. PROVIDE BAS SPACE TEMPERATURE SENSOR FOR MONITORING

SEQUENCE OF OPERATION

GENERAL

1. PROVIDE AC UNIT WITH MANUFACTURER'S STANDARD STAND-ALONE CONTROLS AND THERMOSTAT.
2. PROVIDE SPACE TEMPERATURE SENSOR FOR BAS MONITORING.

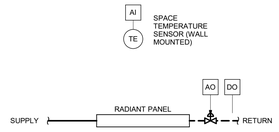
SAFETIES AND ALARMS

1. IF UL508 CONDENSATE OVERFLOW SWITCH SENSES RISING WATER (BLOCKED DRAIN), THE UNIT SHALL DEACTIVATE.
2. IF SPACE TEMPERATURE RISES ABOVE 80 DEG. F (ADJUSTABLE) AN ALARM SHALL BE GENERATED THROUGH THE BAS

OPERATION

1. IF SPACE TEMPERATURE RISES ABOVE SETPOINT, THE UNIT'S PACKAGED CONTROLS SHALL ACTIVATE UNIT IN COOLING TO MAINTAIN SETPOINT.
2. IF SPACE TEMPERATURE DROPS BELOW SETPOINT, THE UNIT'S PACKAGED CONTROLS SHALL ACTIVATE UNIT IN HEATING TO MAINTAIN SETPOINT.

1 AC SPLIT SYSTEM
NTS



2 PERIMETER RADIATION
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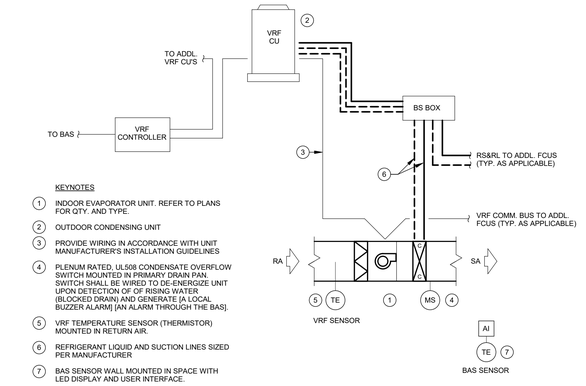
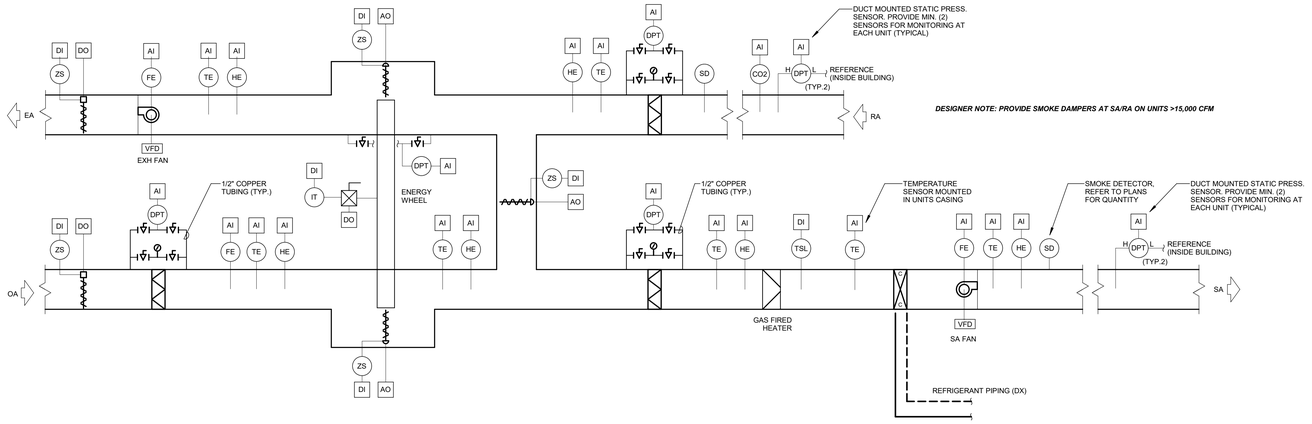


KEYNOTES

1. INDOOR EVAPORATOR UNIT. REFER TO PLANS FOR QTY. AND TYPE.
2. OUTDOOR CONDENSING UNIT
3. PROVIDE WIRING IN ACCORDANCE WITH UNIT MANUFACTURER'S INSTALLATION GUIDELINES
4. PLENUM RATED, UL508 CONDENSATE OVERFLOW SWITCH MOUNTED IN PRIMARY DRAIN PAN. SWITCH SHALL BE WIRED TO DE-ENERGIZE UNIT UPON DETECTION OF OF RISING WATER (BLOCKED DRAIN) AND GENERATE [A LOCAL BUZZER ALARM] [AN ALARM THROUGH THE BAS].
5. VRF TEMPERATURE SENSOR (THERMISTOR) MOUNTED IN RETURN AIR.
6. REFRIGERANT LIQUID AND SUCTION LINES SIZED PER MANUFACTURER
7. BAS SENSOR WALL MOUNTED IN SPACE WITH LED DISPLAY AND USER INTERFACE.

3 VRF SYSTEMS
NTS

ENERGY RECOVERY UNIT - ENERGY WHEEL



4 ENERGY RECOVERY UNIT - WHEEL TYPE
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MECHANICAL DETAILS

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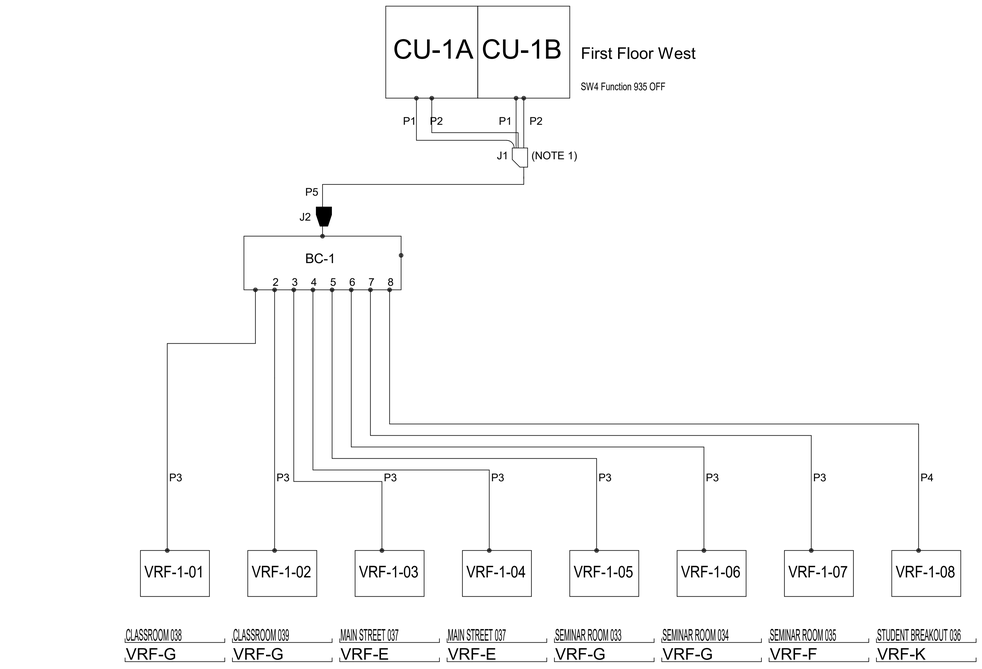
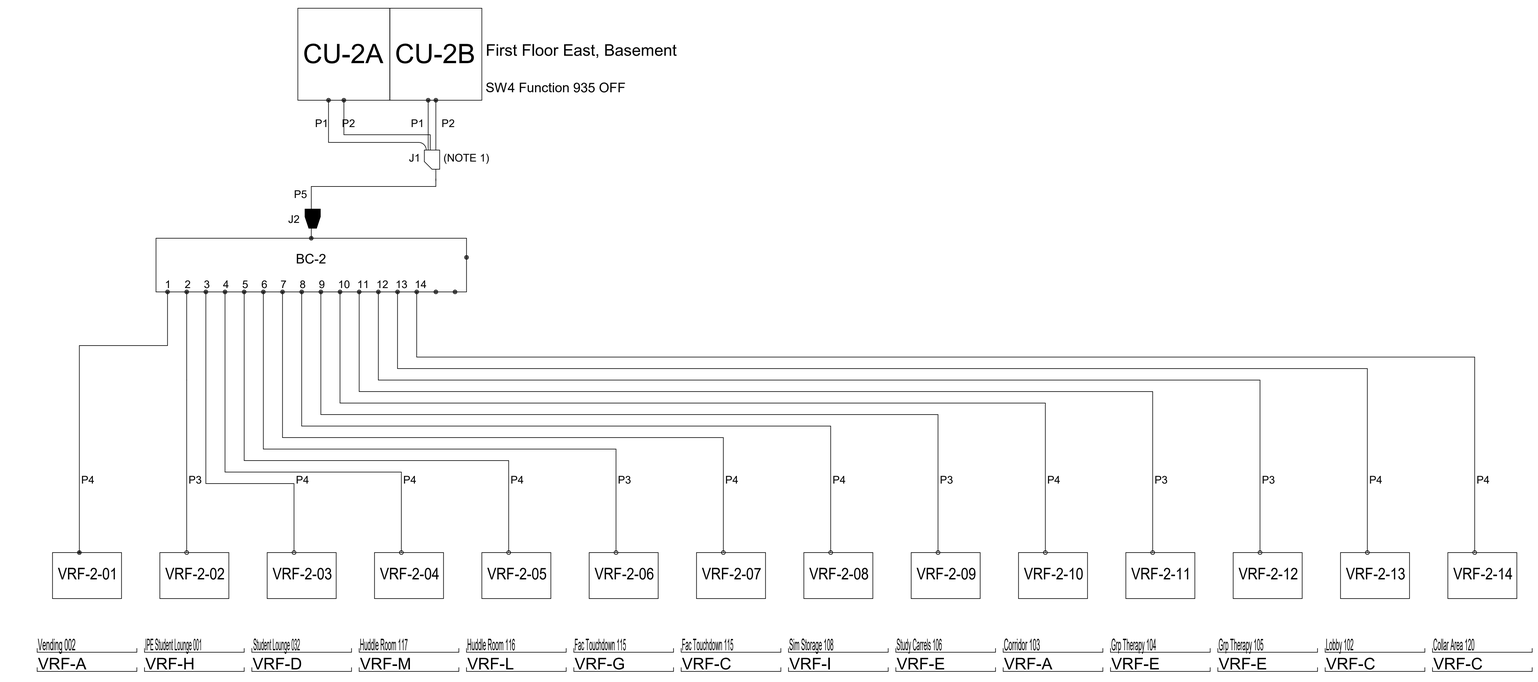


1 CU-1 PIPING DIAGRAM
NTS

PIPING AND CONTROLS	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMY-R200NCBK
J2	CMY-R302S-G1
J3	CMY-R303S-G1
J4	CMY-R306S-G
J5	CMY-R100NCBK
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	3/4 /
P2	/ 1-1/8
P3	3/8 / 5/8
P4	1/4 / 1/2
P5	/ 7/8 / 1-3/8
P6	1/2 / 3/4 / 1-1/8
P7	5/8 /
P8	/ 3/4
P9	/ 7/8 / 1-1/8



2 CU-2 PIPING DIAGRAM
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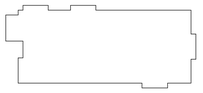

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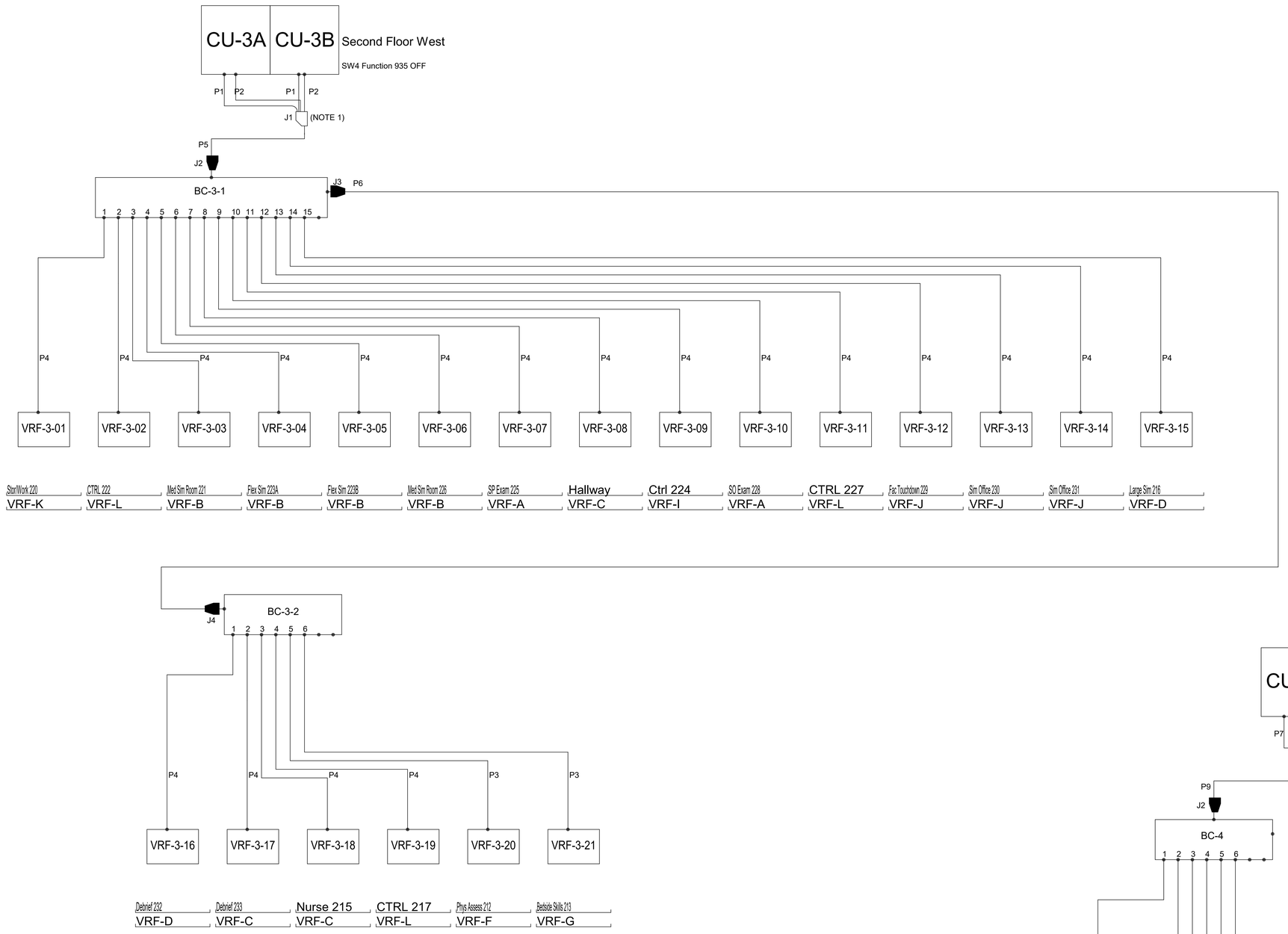
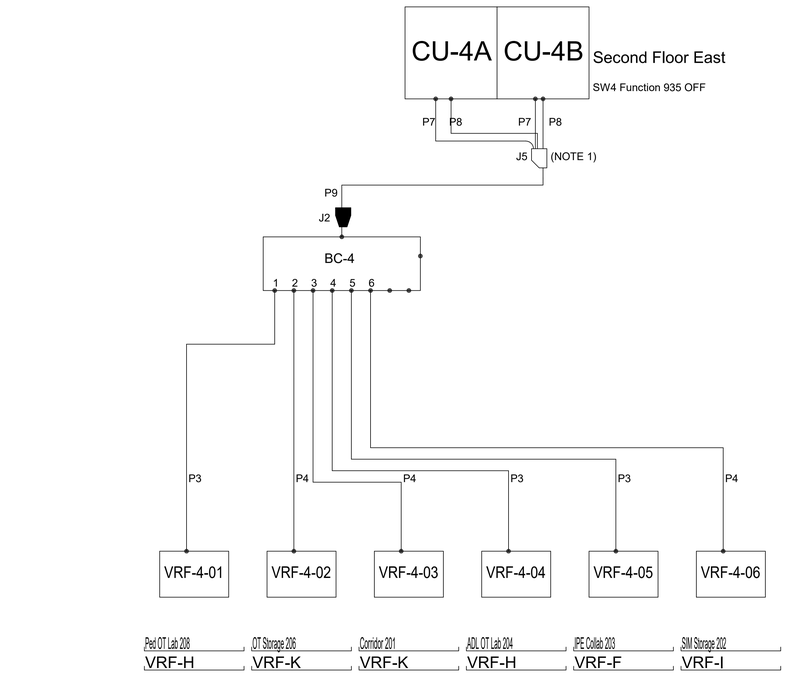


1 CU-3 PIPING DIAGRAM
NTS



2 CU-4 PIPING DIAGRAM
NTS

PIPING AND CONTROLS	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMY-R200NCBK
J2	CMY-R302S-G1
J3	CMY-R303S-G1
J4	CMY-R306S-G
J5	CMY-R100NCBK
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	3/4 /
P2	/ 1-1/8
P3	3/8 / 5/8
P4	1/4 / 1/2
P5	/ 7/8 / 1-3/8
P6	1/2 / 3/4 / 1-1/8
P7	5/8 /
P8	/ 3/4
P9	/ 7/8 / 1-1/8

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DEDICATED OUTDOOR AIR UNIT WITH ENERGY RECOVERY SCHEDULE (PART 1)

GENERAL			PHYSICAL		OUTSIDE AIR		SUPPLY FAN ARRAY								EXHAUST FAN ARRAY								DX COOLING COIL							INDIRECT GAS FURNACE							
								STATIC PRESS (IN.WG.)	PHYSICAL							STATIC PRESS (IN.WG.)	PHYSICAL								AIR DATA					FUEL	PERFORMANCE DATA						
TAG	MANUFACTURER	MODEL	WEIGHT (LBS)	L x W x H (IN.)	CFM	%	TOTAL AIRFLOW (CFM)	EXTERNAL	TOTAL W/DIRTY FILTERS	FAN QTY.	ROWS	COLUMNS	WHEEL DIA. (IN)	RPM	BHP EACH FAN	MOTOR HP EACH FAN	TOTAL AIRFLOW (CFM)	EXTERNAL	TOTAL W/DIRTY FILTERS	FAN QTY.	ROWS	COLUMNS	WHEEL DIA. (IN)	RPM	BHP EACH FAN	MOTOR HP EACH FAN	TOTAL MBH	SENS. MBH	FACE VELOC. (FPM)	EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	P.D. (IN.WG)	GAS	INLET PRESS. (IN.WG.)	INPUT (MBH)	OUTPUT (MBH)	EAT (°F)	LAT (°F)	AFUE (%)	TURN-DOWN	# OF BURNERS
DOAS-1	VALENT	VXE-212-52-30L-17.5D-J	4,769	190.3"x98.3"x73.1"	5,000	100	5,000	1.75	3.922	1	-	-	-	1,665	4.84	7-1/2	5,000	1.75	2.917	1	-	-	-	1,544	3.93	5	224.9	147.7	247	79.2	66.8	52.4	52.0	0.225	NG	6.0	300.0	240.0	52.8	97.2	-	12:1	-
DOAS-2	VALENT	VXE-112-41-30H-15D	3,622	171.6"x86.4"x65.9"	4,000	100	4,000	1.75	4.924	1	-	-	-	2,444	5.00	7-1/2	4,000	1.75	3.307	1	-	-	-	2,256	4.22	5	204.1	126.9	323	81.3	68.6	52.4	52.2	0.421	NG	6.0	300.0	240.0	43.7	99.3	-	12:1	-

REMARKS - TYPE	REMARKS - RATINGS	REMARKS - FEATURES	REMARKS - INSTALL
1. 100% OUTSIDE AIR UNIT WITH ROTARY TYPE TOTAL ENERGY RECOVERY WHEL (ENTHALPY).	1. AIR HANDLING PERFORMANCE DATA IN ACCORDANCE WITH ARI 430 2. SEE AIR HANDLER HOT WATER COIL SCHEDULE AND AIR HANDLER DX EVAPORATOR COIL SCHEDULE FOR COIL PERFORMANCE. 3. SEE ENERGY RECOVERY WHEEL SCHEDULE THIS SHEET FOR ENERGY RECOVERY WHEEL PERFORMANCE.	1. MODULATING LOW LEAKAGE BYPASS DAMPERS WITH ACTUATORS. 2. PREMIUM EFFICIENCY MOTOR, DIRECT DRIVE PLENUM SUPPLY AIR BLOWER WITH VARIABLE FREQUENCY DRIVE WITH BYPASS (PROVIDED BY UNIT MANUFACTURER). 3. PREMIUM EFFICIENCY MOTOR, DIRECT DRIVE PLENUM EXHAUST AIR BLOWER WITH VARIABLE FREQUENCY DRIVE WITH BYPASS (PROVIDED BY UNIT MANUFACTURER). 4. 2" SPRING VIBRATION ISOLATED BASES FOR SUPPLY AIR AND EXHAUST BLOWERS. 5. 2" THICK PLEATED DISPOSABLE MERV 8 PRE-FILTER WITH 4" MERV 13 FINAL FILTERS ON OUTDOOR AIR. 6. 2" THICK PLEATED DISPOSABLE MERV 8 FILTER ON EXHAUST AIR PRIOR TO ENERGY WHEEL. 7. PROVIDE CURB ADAPTOR (SEE INSTALL NOTE AND SPECIFICATIONS).	1. PROVIDE WITH SEISMIC AND WIND LOAD RATED CURB. 2. PROVIDE CURB ADAPTOR TO PROVID TRANSITION FROM EXISTING CURB TO FOOTPRINT OF NEW DOAS-1 AND DOAS-2. 3. PROVIDE WITH FACTORY MOUNTED SMOKE DETECTORS AT SUPPLY AND EXHAUST DISCHARGE AND INTAKE.

SEE PART 2

DEDICATED OUTDOOR AIR UNIT WITH ENERGY RECOVERY SCHEDULE (PART 2)

SEE PART 1

ENERGY RECOVERY																			ELECTRICAL				REMARKS			
TYPE	SUPPLY AIR DATA - WINTER				RETURN AIR DATA - WINTER				SUPPLY AIR DATA - SUMMER				RETURN AIR DATA - SUMMER				MAX PD (IN WC)	% EFFICIENCY		MCA	MOP	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
	EAT(°F)		LAT(°F)		EAT(°F)		LAT(°F)		EAT(°F)		LAT(°F)		EAT(°F)		LAT(°F)			WIN-TER	SUM-MER								
	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB											
WHEEL	3.1	1.3	52.8	43.9	72.0	55.8	20.9	20.3	91.5	76.3	79.2	66.8	75.0	62.5	87.0	72.8	1.03	72.4	70.8	110.7	125.0	208	3	ALL	ALL	ALL	ALL
WHEEL	3.1	1.3	43.7	37.7	72.0	55.8	29.5	27.7	91.5	76.3	81.3	68.6	75.0	62.5	85.0	71.1	1.02	59.9	58.6	100.4	110.0	208	3	ALL	ALL	ALL	ALL

VRF FAN COIL SCHEDULE

GENERAL				PERFORMANCE						ELECTRICAL				REMARKS			
							FAN										
TAG	MANUFACTURER	MODEL	LOCATION	NOMINAL TONS	NET COOLING MBH	NET HEATING MBH	CFM	ESP (IN WG)	SOUND PRESS. (dBA)	WATTS	MCA	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
VRF-A	MITSUBISHI	TPEFY-P006MA-144A	SEE FLOOR PLAN	0.5	6,000	6,700	212-300	0.6	24-30	42	1.75	208	1	2	1	1	2
VRF-B	MITSUBISHI	TPEFY-P008MA-144A	SEE FLOOR PLAN	0.75	8,000	9,000	212-300	0.6	24-30	42	1.75	208	1	2	1	1	2
VRF-C	MITSUBISHI	TPEFY-P012MA-144A	SEE FLOOR PLAN	1.0	12,000	13,500	265-371	0.6	26-34	52	2.13	208	1	2	1	1	2
VRF-D	MITSUBISHI	TPEFY-P018MA-144A	SEE FLOOR PLAN	1.5	18,000	20,000	424-600	0.6	29-37	82	2.94	208	1	2	1	1	2
VRF-E	MITSUBISHI	TPEFY-P024MA-144A	SEE FLOOR PLAN	2.0	24,000	27,000	618-883	0.6	31-39	142	2.88	208	1	2	1	1	1
VRF-F	MITSUBISHI	TPEFY-P030MA-144A	SEE FLOOR PLAN	2.5	30,000	34,000	618-883	0.6	31-39	142	2.88	208	1	2	1	1	1
VRF-G	MITSUBISHI	TPEFY-P036MA-144A	SEE FLOOR PLAN	3.0	36,000	40,000	883-1271	0.6	35-43	222	4.25	208	1	2	1	1	1
VRF-H	MITSUBISHI	TPEFY-P048MA-144A	SEE FLOOR PLAN	4.0	48,000	54,000	918-1306	0.6	35-44	242	4.38	208	1	2	1	1	1
VRF-I	MITSUBISHI	TPLFY-P005FM-140A	SEE FLOOR PLAN	0.4	5,000	5,600	230-280	-	26-30	50	0.24	208	1	4	1	1	2
VRF-J	MITSUBISHI	TPLFY-P008FM-140A	SEE FLOOR PLAN	0.75	8,000	9,000	230-315	-	26-33	50	0.28	208	1	4	1	1	2
VRF-K	MITSUBISHI	TPLFY-P012FM-140A	SEE FLOOR PLAN	1.0	12,000	13,500	245-335	-	26-34	50	0.29	208	1	4	1	1	2
VRF-L	MITSUBISHI	TPMFY-P006BM-140F	SEE FLOOR PLAN	0.5	6,000	6,700	230-307	-	27-35	40	0.25	208	1	4	1	1	2
VRF-M	MITSUBISHI	TPMFY-P012BM-140F	SEE FLOOR PLAN	1.0	12,000	13,500	258-328	-	32-37	40	0.26	208	1	4	1	1	2

REMARKS - TYPE	REMARKS - RATINGS	REMARKS - FEATURES	REMARKS - INSTALL
1. WALL MOUNTED 2. HORIZONTAL DUCTED, MEDIUM STATIC 3. CEILING RECESSED, ONE WAY 4. CEILING RECESSED, FOUR WAY, 33"X33"	1. COOLING MBH AT 80°F EDB, 67°F EWB, 95°F ODB. HEATING MBH AT 70°F EDB, 0°F ODB, 0°F OWB.	1. PROVIDE CONDENSATE PUMP OR INTERNAL LIFT UNIT AT EACH UNIT. 2. INCLUDE SC CONTROLLER OR EQUAL TO ALLOW FOR RADIANT PANELS TO BE FIRST OR SECOND STAGE HEATING.	1. PROVIDE 3/8" REFRIGERANT LIQUID AND 5/8" REFRIGERANT GAS PIPING BETWEEN FAN COIL AND HEAT RECOVERY UNIT 2. PROVIDE 1/4" REFRIGERANT LIQUID AND 1/2" REFRIGERANT GAS PIPING BETWEEN FAN COIL AND HEAT RECOVERY UNIT

AC SYSTEM - INDOOR / OUTDOOR UNIT SCHEDULE

SYMBOL	MANUFACTURER	SYSTEM MODEL	INDOOR MODEL	OUTDOOR MODEL	TYPE	LOCATION	NOM. TONS	FAN	CAPACITIES		REFRIGERANT PIPING FROM CONDENSING UNIT TO AIR HANDLER		ELECTRICAL			SOUND (DBA)	REMARKS
								CFM (LOW-HIGH)	COOLING (BTUH)	HEATING (BTUH)	LIQUID	GAS	MCA	VOLTS	PHASE		
AC-1/ACU-1	MITSUBISHI	-	PKA-A12LA	PUZ-A12NKA7	A	ELEVATOR MACHINE ROOM 012	1.0	265-455	12,000	18,000	1/4	1/2	11.0	208	1	48	1-5,7,8
AC-2/AC-3/ACU-2	MITSUBISHI	-	PKA-A12LA PKA-A12LA	PUZ-HA24NHA	A	IT 112 DATA 209	1.0 1.0	265-455 265-455	12,000 12,000	14,000 14,000	3/8 3/8	5/8 5/8	17.0	208	1	48 48	1-5,7,8

TYPE:
A. HIGH WALL
REMARKS:
1. COOLING CAPACITY AT 80°F EDB, 67°F EWB, & 95°F ODB. HEATING CAPACITY AT 70°F EDB, 47°F ODB & 43°F OWB.
2. FURNISH AND INSTALL MANUFACTURES WIRED REMOTE TEMPERATURE SENSOR.
3. FURNISH AND INSTALL ALL CONTROL WIRING NECESSARY FROM OUTDOOR UNIT, INDOOR UNIT, AND ALL OTHER CONTROLS ASSOCIATED WITH SYSTEM.
4. PROVIDED WITH INTERNAL CONDENSATE PUMP.
5. PROVIDE WITH RETURN AIR THERMISTOR.
6. PROVIDE AC-3 WITH LITTLE GIANT VCC-20ULS CONDENSATE PUMP. PUMP SHALL BE CAPABLE OF 45 GALLONS PER HOUR AT 10 FEET OF HEAD. PROVIDE ELECTRICAL CONNECTIONS FOR OPERATIONAL SYSTEM.
7. INDOOR UNIT SHALL BE POWERED OFF OF CORRESPONDING OUTSIDE CONDENSING UNIT. REFER TO MANUFACTURERS INSTRUCTIONS FOR ELECTRICAL CONNECTIONS TO PROVIDE AN OPERATIONAL SYSTEM.
8. CONFIRM REFRIGERANT LINE SIZING WITH THE FACTORY PRIOR TO INSTALLATION BASED ON THE TOTAL LENGTH OF RUN.

VARIABLE REFRIGERANT FLOW (VRF) CONDENSING UNITS SCHEDULE

GENERAL			PHYSICAL		PERFORMANCE						ELECTRICAL				REMARKS			
						COOLING			HEATING									
TAG	MANUFACTURER	MODEL	MODULE	WEIGHT (LBS)	NOMINAL TONS	MBH	EER	IEER	MBH	COP	SOUND PRESS. (dBA)	MCA	MOP	VOLTAGE	PHASE	TYPE	RATINGS	FEATURES	INSTALL
CU-1	MITSUBISHI	TURY-H2403BN40-AN	A B	662 662	10 10	120 120	11.7 11.7	22.2 22.2	135 135	3.56 3.56	68.0 68.0	47.0/44.0 47.0/44.0	70/60 70/60	208	3	ALL	ALL	ALL	ALL
CU-2	MITSUBISHI	TURY-H2403BN40-AN	A B	662 662	10 10	120 120	11.7 11.7	22.2 22.2	135 135	3.56 3.56	68.0 68.0	47.0/44.0 47.0/44.0	70/60 70/60	208	3	ALL	ALL	ALL	ALL
CU-3	MITSUBISHI	TURY-H2403BN40-AN	A B	662 662	10 10	120 120	11.7 11.7	22.2 22.2	135 135	3.56 3.56	68.0 68.0	47.0/44.0 47.0/44.0	70/60 70/60	208	3	ALL	ALL	ALL	ALL
CU-4	MITSUBISHI	TURY-H1443BN40-AN	A B	644 644	6 6	72 72	12.2 12.2	24.5 24.5	80 80	3.82 3.82	61.0 61.0	38.0/35.0 38.0/35.0	60/50 60/50	208	3	ALL	ALL	ALL	ALL

REMARKS - TYPE	REMARKS - RATINGS	REMARKS - FEATURES	REMARKS - INSTALL
1. HEAT RECOVERY (SIMULTANEOUS HEATING AND COOLING) HEAT PUMP, SCROLL COMPRESSOR(S), R-410A	1. COOLING MBH AT 80°F EDB, 67°F EWB, 95°F ODB. HEATING MBH AT 70°F EDB, 0°F ODB, 0°F OWB. 2. SOUND PRESSURE LEVELS PER ISO STANDARD 1996	1. HEATING TO 0°F ODB 2. DUAL MODULE, DUAL POINT POWER CONNECTION 3. INCLUDE HERMETICALLY SEALED INVERTER SCROLL 4. INCLUDE SC CONTROLLER OR EQUAL TO ALLOW FOR RADIANT PANELS TO BE FIRST OR SECOND STAGE HEATING.	1. MOUNT UNIT ON (2) ROOF RAILS, SIMILAR TO THYCURB MODEL ITEMS SERIES OR SIMILAR, 14" HIGH, 6" WIDE. MOUNT RAILS DIRECTLY TO THE ROOF STRUCTURE, THEN ROOF AND FLASH WATER TIGHT.

VRF BRANCH CONTROLLER SCHEDULE

GENERAL				PHYS.	ELECTRICAL			REMARKS	
TAG	MANUFACTURER	MODEL	LOCATION	TYPE (MAIN/SUB)	# OF PORTS	MCA	VOLTAGE	PHASE	TYPE	INSTALL
BC-1	MITSUBISHI	TCMB-M108-JA11N4	FIRST FLOOR WEST	MAIN	8	0.83	208	1	-	-
BC-2	MITSUBISHI	TCMB-M1016-JA11N4	FIRST FLOOR EAST / BASEMENT	MAIN	16	1.57	208	1	-	-
BC-3-1	MITSUBISHI	TCMB-M1016-JA11N4	SECOND FLOOR WEST	MAIN	16	1.57	208	1	-	-
BC-3-2	MITSUBISHI	TCMB-S0108-KB11N4	SECOND FLOOR WEST	SUB	8	0.74	208	1	-	-
BC-4	MITSUBISHI	TCMB-M0108-JA11N4	SECOND FLOOR EAST	MAIN	8	0.83	208	1	-	-

REMARKS - TYPE	REMARKS - INSTALL
1. - 2. - 3. -	1. - 2. - 3. -

CABINET UNIT HEATER & UNIT HEATER SCHEDULE

SYMBOL	MANUFACTURER MODEL NUMBER	TYPE	DIMENSIONS (LxWxH)	CFM	HOT WATER HEATING PERFORMANCE					ELECTRICAL				REMARKS
					HEATING CAP (MBH)	FLOW RATE (GPM)	WATER PD (FT)	HWS (°F)	HWR (°F)	VOLTS	PHASE	HP	FLA	
CUH-A	RITTLING RFRC-420-04	RFRC	50"x10"x26.5"	420	23.6	4.9	3.6	180	160	120	1	1/25	0.68	1,2,5,6
CUH-B	RITTLING RF-200-04	FL	50"x10"x26.5"	420	23.6	4.9	3.6	180	160	120	1	1/25	0.68	1,2,4,5

TYPE:
FL = FLOOR MOUNTED TOP SUPPLY BOTTOM RETURN
RFRC = FULLY RECESSED CEILING MOUNT - FACE SUPPLY AND RETURN

REMARKS:
1. PROVIDE CONTROL INTERFACE WITH BMS. COORDINATE CONTROLS WITH ATC.
2. ALL VALVES AND PIPING SHALL BE MOUNTED IN CABINET.
3. UNIT HEATER SHALL BE SET TO TURN ON AT 40F
4. PROVIDE DISCONNECT SWITCH, WALL MOUNTED THERMOSTAT.
5. PROVIDE 2-ROW HEATING COIL.
6. PROVIDE INTERNAL THERMOSTAT.

HYDRONIC RADIANT CEILING PANEL SCHEDULE

GENERAL		PHYSICAL		PERF.		REMARKS			
MANUFACTURER	MODEL	WIDTH (IN)	TUBES	AWT (°F)	BTUH PER LINEAL FOOT	TYPE	RATINGS	FEATURES	INSTALL
AIRTITE	AR-X	24	4	150	291	1	1	1	1

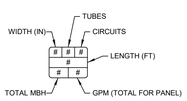
REMARKS-TYPE
1. 1/2" I.D. COPPER TUBING MECHANICALLY ATTACHED TO EXTRUDED ALUMINUM LINEAR PANEL(S), COLOR SELECTED BY ARCHITECT.

REMARKS-RATINGS
1. WIDTH, NUMBER OF TUBES, AND BTUH PER LINEAL FOOT DATA IN THIS SCHEDULE ARE FOR NOMINAL RATING PURPOSES ONLY. SEE PLANS FOR SIZING INFORMATION, AS INDICATED BY THE SYMBOL AT T BOTTOM OF THIS SCHEDULE:

REMARKS-FEATURES
1. PROVIDE MOUNTING ACCESSORIES INCLUDING OVERLAPPING FINISH TRIM AT ENDS (AND SIDES IF NECESSARY) THAT ALLOWS FOR EXPANSION AND CONTRACTION OF THE CEILING PANEL WITHOUT ADVERSE AFFECT ON THE ADJACENT ARCHITECTURAL FINISHES OR ON ADJACENT PANELS, AND THAT DOES NOT SHOW ANY GAPS IN THE CEILING WHEN THE PANELS ARE INSTALLED

REMARKS-INSTALL
1. SEE DETAILS ON DWG M500

FLOWRATE (gpm)= (TOTAL BTU/H) / (500 x ΔT)

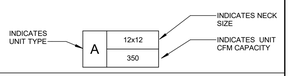


"W TO W" LENGTH: WALL TO WALL
"W TO G" LENGTH: WALL TO GLAZING EDGE

DIFFUSER AND REGISTER SCHEDULE

SYMBOL	MANUFACTURER/ MODEL NUMBER	DUTY	TYPE	BORDER TYPE	CONSTRUCTION			REMARKS
					OBD	FRAME	BLADES	
A	KRUEGER 5PLQ	SUPPLY	PLQ	LAY IN	NONE	STEEL	STEEL	
B	KRUEGER S85	RETURN	LF	LAY IN	NONE	STEEL	STEEL	
C	KRUEGER 880	SUPPLY	LF	SURFACE MOUNT	NONE	STEEL	STEEL	
D	KRUEGER S85	RETURN/ EXHAUST	LF	SURFACE MOUNT	NONE	STEEL	STEEL	
E	KRUEGER DFL	SUPPLY	LS	LAY IN	NONE	STEEL	STEEL	
F	KRUEGER DFL	RETURN/ EXHAUST	LS	LAY IN	NONE	STEEL	STEEL	

TYPES:
DD - DIRECTIONAL DIFFUSER
LB - LINEAR BAR
LF - LOUVERED FACE
LS - LINEAR SLOT
SW - SIDEWALL REGISTER
PERF - PERFORATED / EGG-CRATE
PLQ - PLAQUE DIFFUSER
R - ROUND DIFFUSER



REMARKS:
1. MECHANICAL CONTRACTOR SHALL FABRICATE A 4'-0"L x 10"H x 5" DEEP INSULATED PLENUM.
2. MECHANICAL CONTRACTOR SHALL FIELD INSTALL REMOTE CABLE OPERATED VOLUME CONTROL DAMPER.
3. PROVIDE ROUND NECK SUPPLY DIFFUSER WITHOUT ANY ADJUSTABLE BLADES FOR KITCHEN USE.
4. PROVIDE BLANKOFF STRIPS FOR INACTIVE SECTIONS. PROVIDE CUSTOM CURVING AS NECESSARY, COORDINATE WITH ARCHITECT.

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MECHANICAL SCHEDULES

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ELECTRICAL ABBREVIATIONS

A/AMP	AMPERE
AC	ALTERNATING CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPS INTERRUPTING CURRENT
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAL WIRE GAUGE
BSMT	BASEMENT
C	CONDUIT
CATV	CABLE TELEVISION
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
COMP	COMPRESSOR
CP	CONDENSATE PUMP
CT	CURRENT TRANSFORMER
CU	CONDENSING UNIT OR COPPER
CUH	CABINET UNIT HEATER
D	DRYER
DEG	DEGREE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
ETR	EXISTING TO REMAIN
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
EP	EMERGENCY PANEL
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLE
FCU	FAN COIL UNIT
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HZ	HERTZ
IG	ISOLATED GROUND
IN	INCHES
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
MAX	MAXIMUM
MAU	MAKE-UP AIR UNIT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MH	METAL HALIDE OR MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NEW LOCATION OF RELOCATED DEVICE
NTS	NOT TO SCALE
P	POLE
PE	PRIMARY ELECTRIC SERVCE
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
RE	EXISTING TO BE REMOVED
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
RTU	ROOFTOP UNIT
SE	SECONDARY ELECTRICAL SERVICE
SPEC	SPECIFICATION
SWBD	SWITCHBOARD
SPD	SURGE PROTECTION DEVICE
TELE	TELECOMMUNICATIONS/TELEPHONE
TV	TELEVISION
T/TX	TRANSFORMER
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT AMPERE
VAC	VOLTS ALTERNATING CURRENT
VIF	VERIFY IN FIELD
W	WATT OR WIRE
WA	WASHER
WG	WIRE GUARD
WP	WEATHERPROOF

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	SURFACE MOUNTED PANELBOARD
	RECESSED PANELBOARD
J	DISCONNECT SWITCH
J	FUSED DISCONNECT SWITCH
J	COMBINATION STARTER AND DISCONNECT SWITCH
	MOTOR STARTER OR CONTACTOR
S M	MANUAL MOTOR STARTER
	MOTOR (REFER TO MOTOR CIRCUIT SCHEDULE FOR POWER REQUIREMENTS)
T	TRANSFORMER
M	ELECTRICAL METER
SPD	SURGE PROTECTIVE DEVICE
VFD	VARIABLE FREQUENCY DRIVE
	BRANCH CIRCUIT WIRING, CONCEALED IN WALLS OR CEILINGS
	HOMERUN TO PANELBOARD
	SWITCHED BRANCH CIRCUIT WIRING
PT #	POKE-THRU DEVICE. SUPERSCRIPT '#' INDICATES TYPE. REFER TO FLOOR BOX DEVICE SCHEDULE FOR TYPE.
FB #	FLOOR BOX. SUPERSCRIPT '#' INDICATES TYPE. REFER TO FLOOR BOX DEVICE SCHEDULE FOR TYPE.
J J	JUNCTION BOX
	SIMPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
	DUPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
	DUPLEX WALL MOUNTED RECEPTACLE, HALF SWITCHED
TR	DUPLEX WALL MOUNTED RECEPTACLE, TAMPER RESISTANT
W	DUPLEX GFCI-TYPE WALL MOUNTED RECEPTACLE FOR WASHING MACHINE. MOUNT 48" AFF UNLESS OTHERWISE NOTED.
M	DUPLEX WALL MOUNTED RECEPTACLE FOR MICROWAVE. COORDINATE WITH MICROWAVE LOCATION FOR EXACT LOCATION AND MOUNTING HEIGHT WITH ARCH PRIOR TO ROUGH-IN.
DW	DUPLEX WALL MOUNTED RECEPTACLE FOR DISHWASHER. MOUNT 18" AFF UNLESS OTHERWISE NOTED. CONNECT TO GFCI BREAKER IN PANELBOARD.
REF	DUPLEX WALL MOUNTED RECEPTACLE FOR REFRIGERATOR. MOUNT 48" AFF UNLESS OTHERWISE NOTED. CONNECT TO GFCI BREAKER IN PANELBOARD.
EWC	DUPLEX WALL MOUNTED RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT 18" AFF UNLESS OTHERWISE NOTED. CONNECT TO GFCI BREAKER IN PANELBOARD.
VM	DUPLEX WALL MOUNTED RECEPTACLE FOR VENDING MACHINE. MOUNT 18" AFF UNLESS OTHERWISE NOTED. CONNECT TO GFCI BREAKER IN PANELBOARD.
XX"	DUPLEX WALL MOUNTED RECEPTACLE MOUNTED AT XX" ABOVE FINISHED FLOOR
	DOUBLE DUPLEX WALL MOUNTED RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
a a	RECEPTACLE, MOUNT 6" ABOVE COUNTER OR CASEWORK
bc bc	RECEPTACLE MOUNTED BELOW FRONT OF COUNTER
GFI GFI	RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTION
WP WP	RECEPTACLE WITH WEATHERPROOF COVER
c c	RECEPTACLE, CEILING MOUNTED
U U	RECEPTACLE WITH INTEGRAL USB OUTLET FOR CHARGING. RECEPTACLE SHALL HAVE (1) USB-A AND (1) USB-C, 5-AMP CHARGING PORT.
AVD AVD	(1) OR (2) DUPLEX RECEPTACLES MOUNTED WITHIN AUDIOVISUAL WALL MOUNTED DISPLAY BOX. RECEPTACLE(S) SHALL HAVE (1) USB-A AND (1) USB-C, 5-AMP CHARGING PORT. REFER TO TECHNOLOGY DEVICE SCHEDULE FOR DISPLAY BOX SPECIFICATIONS.
ND	DUPLEX WALL MOUNTED RECEPTACLE FOR NURSING SIMULATION NODE. COORDINATE EXACT LOCATION WITH OWNER'S EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
MON	DUPLEX RECEPTACLE FOR FLATSCREEN MONITOR. MOUNT WITHIN SAME BOX AS DATA DEVICE SHOWN ON PLANS. RECEPTACLE SHALL HAVE (1) USB-A AND (1) USB-C, 5-AMP CHARGING PORT.
AVH	DOUBLE-DUPLEX RECEPTACLE MOUNTED ADJACENT TO HIGH AUDIO VISUAL BACKBOX. RECEPTACLES SHALL HAVE (1) USB-A AND (1) USB-C 5-AMP CHARGING PORT.
	SPECIAL PURPOSE HARDWIRED CONNECTION: WIRING AS INDICATED
RH	HARDWIRED 20A/1P CONNECTION TO RANGE HOOD. MAKE FINAL CONNECTIONS AS REQUIRED BY MANUFACTURER.
HD	HARDWIRED 20A/2P CONNECTION TO HAND DRYER. MAKE FINAL CONNECTIONS AS REQUIRED BY MANUFACTURER.
MS	HARDWIRED 20A/1P CONNECTION FOR MOTORIZED SHADES. REFER TO DETAIL FOR REQUIREMENTS.
	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AND WIRING AS INDICATED
R	NEMA 14-50R RECEPTACLE FOR ELECTRIC RANGE. PROVIDE 3#8, #10G, 3/4"C. TO INDICATED BREAKER IN PANEL. (2 HOT, 1 NEUTRAL, 1 GROUND)
D	NEMA 14-30R RECEPTACLE FOR ELECTRIC DRYER. PROVIDE 3#10, #10G, 3/4"C. TO INDICATED BREAKER IN PANEL. (2 HOT, 1 NEUTRAL, 1 GROUND) CONNECT TO GFCI BREAKER IN PANELBOARD.
EPO	EMERGENCY POWER OFF PUSH BUTTON

ELECTRICAL SYMBOLS (CONTINUED)

SYMBOL	DESCRIPTION
L	HARDWIRED CONNECTION TO LAVATORY FAUCET. REFER TO PLUMBING FIXTURE CONNECTIONS DETAIL FOR ADDITIONAL INFORMATION.
W	HARDWIRED CONNECTION TO WATER CLOSET OR URINAL FLUSH VALVE. REFER TO PLUMBING FIXTURE CONNECTIONS DETAIL FOR ADDITIONAL INFORMATION.
T	JUNCTION BOX FOR PLUMBING FIXTURE TRANSFORMER. REFER TO PLUMBING FIXTURE WIRING DETAIL FOR ADDITIONAL INFORMATION.
J PS	20A-1P POWER FEED TO PROJECTION SCREEN. PROVIDE CONTROL WIRING VIA AV SYSTEM DETAILS AND NOTES.
J AVC	20A-1P POWER FEED TO AV CEILING ENCLOSURE. REFER TO AV SYSTEM DETAILS AND NOTES FOR ADDITIONAL INFORMATION.
P	PUSHPLATE FOR DOOR OPERATOR

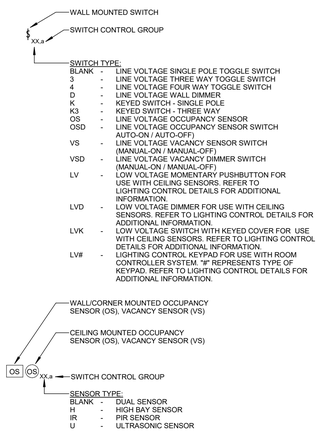
LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
	EXTERIOR BUILDING MOUNTED LIGHTING FIXTURE
	EXTERIOR BUILDING MOUNTED EMERGENCY LIGHTING FIXTURE
	SURFACE MOUNTED LIGHTING FIXTURE
	SURFACE MOUNTED EMERGENCY LIGHTING FIXTURE
	LINEAR RECESSED LIGHTING FIXTURE
	LINEAR RECESSED EMERGENCY LIGHTING FIXTURE
	PENDANT MOUNTED LIGHTING FIXTURE
	PENDANT MOUNTED EMERGENCY LIGHTING FIXTURE
	RECESSED LIGHTING FIXTURE
	RECESSED EMERGENCY LIGHTING FIXTURE
	INDUSTRIAL OR STRIP TYPE FIXTURE
	WALL MOUNTED EXIT SIGN, DOUBLE FACED
	WALL MOUNTED EXIT SIGN
	CEILING MOUNTED EXIT SIGN
	CEILING MOUNTED EXIT SIGN, DOUBLE FACED
PC	LIGHT SENSING PHOTOCELL / DAYLIGHT SENSOR
PP	POWER PACK. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
PPE	EMERGENCY POWER PACK. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION.
R	EMERGENCY LIGHTING RELAY
VS	CEILING MOUNTED VACANCY SENSOR
OS	CEILING MOUNTED OCCUPANCY SENSOR

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
EQUIPMENT	
FACP	FIRE ALARM CONTROL PANEL
FARA + EVAC	FIRE ALARM REMOTE ANNUNCIATOR PANEL
INITIATING DEVICES	
S	CEILING MOUNTED SMOKE DETECTOR
S SB	CEILING MOUNTED SMOKE DETECTOR WITH SOUNDER BASE
S SB/CO	CEILING MOUNTED SMOKE DETECTOR WITH CARBON MONOXIDE SOUNDER BASE
S 520	CEILING MOUNTED SMOKE DETECTOR WITH LOW FREQUENCY 520HZ SOUNDER BASE
S	CEILING MOUNTED SMOKE DETECTOR WIRED TO ELEVATOR RECALL SYSTEM
S	WALL MOUNTED SMOKE DETECTOR WIRED TO ELEVATOR RECALL SYSTEM
S/D	DUCT MOUNTED SMOKE DETECTOR AND HOUSING
SD FSD	SMOKE OR FIRE/SMOKE DAMPER WITH ASSOCIATED DUCT SMOKE DETECTOR. PROVIDE ALL ITEMS LISTED AS BY DIVISION 26 AND BY DIVISION 28 IN ELECTRICAL SMOKE DAMPER DETAIL. PROVIDE WITH ONE DUCT SMOKE DETECTOR UNLESS OTHERWISE NOTED.
F	WALL MOUNTED FIRE ALARM MANUAL PULL STATION. MOUNT AT 48" AFF.
H	HEAT DETECTOR FOR ELEVATOR RECALL CONTROLS
NOTIFICATION	
XX	WALL MOUNTED COMBINATION SPEAKER / STROBE LIGHT WITH A MULTI-CANDELA STROBE. MOUNT AT 6'-8" AFF. WG= PROVIDE WITH WIREGUARD. "XX"=CANDELA RATING
XX	WALL MOUNTED STROBE-ONLY UNIT WITH A MULTI-CANDELA STROBE. MOUNT AT 6'-8" AFF. WG= PROVIDE WITH WIREGUARD. "XX"=CANDELA RATING
XX C	CEILING MOUNTED COMBINATION SPEAKER/STROBE LIGHT WITH A MULTI-CANDELA STROBE.. "XX"=CANDELA RATING
XX C	CEILING MOUNTED STROBE-ONLY UNIT WITH A MULTI-CANDELA STROBE. "XX"=CANDELA RATING
F	WALL MOUNTED FIRE ALARM MANUAL PULL STATION. MOUNT AT 48" AFF. PROVIDE WITH MANUAL STATION GUARD, STI "STOPPER II" OR EQUAL WHERE REQUIRED.
B	EXTERIOR SPRINKLER BELL. PROVIDE 20A/1P CIRCUIT.
INTERFACE MODULES	
MM	FIRE ALARM MONITOR MODULE
CM	FIRE ALARM CONTROL MODULE
RM	FIRE ALARM RELAY MODULE
MISCELLANEOUS	
RTS	REMOTE DUCT SMOKE DETECTOR TEST SWITCH
TS	FIRE PROTECTION TAMPER SWITCH AND FIRE ALARM MONITOR MODULE
FS	FIRE PROTECTION FLOW SWITCH AND FIRE ALARM MONITOR MODULE
PS	FIRE PROTECTION PRESSURE SWITCH AND FIRE ALARM MONITOR MODULE

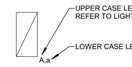
LIGHTING SWITCH AND SENSOR TAGS



NOTES:

1. FIXTURE(S) SHALL BE CONTROLLED BY SWITCH OR RELAY LOCATED IN THE ROOM UNLESS OTHERWISE NOTED ON PLAN.
2. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION ON WIRING AND SWITCHING.
3. WALL MOUNTED SWITCHES SHALL BE MOUNTED AT 42" AFF UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT.
4. SET ALL OCCUPANCY TYPE SENSORS TO AUTO-ON, AUTO-OFF MODE. SET ALL VACANCY TYPE SENSORS TO MANUAL-ON, AUTO-OFF MODE.
5. REFER TO CONTROL SCHEME NOTES AND CONTROL SCHEDULE FOR ADDITIONAL INFORMATION.
6. REFER TO SYMBOL LIST FOR ADDITIONAL LIGHTING CONTROL DEVICES.
7. WHERE SWITCHES ARE NOT TAGGED WITH CONTROL LETTER ON PLANS, ALL FIXTURES IN ASSOCIATED ROOM SHALL BE CONTROLLED SIMULTANEOUSLY VIA CONTROLS SPECIFIED.

LIGHTING FIXTURE TAGS



NOTES

1. FIXTURE CONTROL DESIGNATION REFERS TO ZONE/SWITCH/RELAY CONTROL OF FIXTURES CONTROLLED BY COMMON:
   A. SWITCH FOR LIGHTING IN ROOM, CORRIDOR, OPEN AREA.
   B. ZONE RELAY IN LOCAL LIGHTING CONTROL PANEL OR LIGHTING CONTROL RELAY PANEL.
   C. ALL CONTROL DEVICES (SWITCHES, CONTROL PANELS, OCCUPANCY/VACANCY SENSORS, ETC) WITH CONTROL DESIGNATIONS REFERS TO COMMON CONTROL OF THE SAME ZONE/SWITCH/RELAY CONTROL.
2. WHERE CONTROL DESIGNATION IS NOT SHOWN, ALL FIXTURES IN ASSOCIATED ROOM OR SPACE SHALL BE CONTROLLED SIMULTANEOUSLY VIA THE CONTROL DEVICES INDICATED ON PLANS.
3. WHERE EMERGENCY AND NORMAL FIXTURES ARE CONTROLLED FROM THE SAME ZONE/SWITCH/CONTROL RELAY, UL 924 EMERGENCY BYPASS RELAYS SHOWN WITH SAME CONTROL DESIGNATION BYPASS THAT ZONE/SWITCH/CONTROL RELAY. REFER TO EMERGENCY LIGHTING CIRCUIT SCHEMATICS FOR ADDITIONAL WIRING INFORMATION.
4. UNSWITCHED LIGHTING BRANCH CIRCUIT WIRING IS SHOWN TO A SINGLE FIXTURE IN EACH COMMON CONTROL ZONE. UNLESS OTHERWISE INDICATED, PROVIDE 2#12,#12G,3/4"C FOR SWITCHED WIRING TO ALL COMMON CONTROL FIXTURES.
5. PROVIDE LOW VOLTAGE DIMMING CONTROL WIRING AS INDICATED IN LIGHTING CONTROL DETAILS FOR DIMMABLE LIGHT FIXTURES IN COMMON CONTROL ZONES/SWITCHES/RELAY CONTROL.
6. REFER TO LIGHTING CONTROL DETAILS FOR ADDITIONAL WIRING AND CONTROL INFORMATION.
7. REFER TO LIGHTING CONTROL RELAY PANEL SCHEDULES WHERE APPLICABLE FOR ADDITIONAL CONTROL INFORMATION.

ELECTRICAL GENERAL NOTES

1. BRANCH CIRCUITS AND FEEDER CIRCUITS SHALL BE CONCEALED IN WALLS AND ABOVE CEILINGS WHERE POSSIBLE, INCLUDING HOMERUNS TO PANELBOARDS. BRANCH CIRCUITS AND FEEDERS SHALL NOT BE ROUTED IN OR UNDER SLAB UNLESS SPECIFICALLY INDICATED ON ELECTRICAL FLOOR PLANS OR DETAILS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. BRANCH CIRCUITS SHALL BE 2#12,#12G,.3/4"C., TO NEW 20A/1P CIRCUIT BREAKER IN PANEL INDICATED UNLESS NOTED OTHERWISE.
3. 120V, 1-PHASE, 20A BRANCH CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE 2#10,#10G., 3/4"C. UNLESS NOTED OTHERWISE.
4. DEVICES SHALL BE LABELED WITH SOURCE PANEL AND CIRCUIT NUMBER(S).
5. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL DEVICES. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF WALL MOUNTED ELECTRICAL DEVICES.
6. PROVIDE FIRE STOPPING AND SMOKE BARRIER SEALING OF PENETRATIONS THROUGH FIRE WALLS OR SMOKE BARRIERS AS REQUIRED. REFER TO ARCHITECTURAL FLOOR PLANS AND CODE SHEETS FOR WALLS.
7. COORDINATE LOCATIONS OF ELECTRICAL DEVICES AND CONTROLS WITH RESPECT TO LOCATIONS OF CASEWORK AND EQUIPMENT PRIOR TO ROUGH-IN.
8. WHEN DEVICES ARE SHOWN ON PLANS OFFSET FROM ONE ANOTHER, DEVICES SHALL BE MOUNTED IN LINE, CENTERED ON WALL.
9. SHARED NEUTRAL WIRING IS NOT ACCEPTABLE, UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE A DEDICATED NEUTRAL WIRE FOR EACH CIRCUIT, WHERE APPLICABLE.
10. DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE ELECTRICAL DRAWINGS. FIELD CONDITIONS AND ARCHITECTURAL ELEVATIONS AND DIMENSIONS SHALL GOVERN EXACT LOCATION AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES AND RACEWAYS.
11. FINISHES AND COLOR OF ELECTRICAL WIRING DEVICES, EXPOSED RACEWAY, LIGHT FIXTURES, AND OTHER ELECTRICAL DEVICES SHALL BE DETERMINED BY THE ARCHITECT.
12. ELECTRICAL WORK SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE (OTHER THAN ROOF DECK).
13. THE ELECTRICAL CONTRACTOR SHALL PERFORM CORES REQUIRED FOR ELECTRICAL WORK.
14. BUILDING WIRE AND CABLE NOT IN RACEWAY SHALL BE PLENUM RATED.
15. PROVIDE SURFACE MOUNTED RACEWAY FOR NEW DEVICES LOCATED ON EXISTING TO REMAIN CMU OR MASONRY WALLS, UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING SURFACE MOUNTED RACEWAY APPLICATIONS AND WIRING METHODS.

ELECTRICAL LIGHTING NOTES

1. REFER TO DRAWING E600 FOR LIGHTING FIXTURE SCHEDULE.
2. EXIT SIGNS AND EMERGENCY BATTERY UNITS SHALL BE WIRED TO LINE SIDE OF LOCAL LIGHTING BRANCH CIRCUIT, AHEAD OF ALL SWITCHING DEVICES.
3. EMERGENCY LIGHTING RELAY LOCATIONS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL INSTALL RELAYS ABOVE NEAREST ACCESSIBLE CEILING, OR IN NEAREST STORAGE ROOM/ UTILITY SPACE, AND SHALL COORDINATE LOCATION WITH OTHER TRADES. REFER TO EMERGENCY LIGHTING WIRING SCHEMATICS FOR ADDITIONAL INFORMATION.
4. REFER TO DRAWINGS E502 & E503 FOR TYPICAL LIGHTING CONTROL WIRING SCHEMATICS.

ELECTRICAL POWER NOTES

1. REFER TO DRAWING E600 FOR MOTOR/ EQUIPMENT CIRCUIT SCHEDULE.
2. RECEPTACLES LOCATED WITHIN 6' FROM WATER SOURCES SHALL BE GFCI TYPE.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) -2" CONDUIT SLEEVE INTO EACH ROOM SHOWN WITH COMMUNICATIONS DEVICE(S). LOCATE ABOVE CEILING WHERE POSSIBLE.
4. SOUND SYSTEM EQUIPMENT SHALL BE POWERED OFF THE SAME PHASE OF SOURCE PANELBOARD.
5. 15A AND 20A, 120V AND 250V NON-LOCKING TYPE RECEPTACLES MOUNTED BELOW 5'-6" AFF SHALL BE LISTED TAMPER-RESISTANT TYPE IN ACCORDANCE WITH NEC 406.12.

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KEYPLAN

Number	Date	Issued For

ELECTRICAL ABBREVIATIONS, NOTES AND SYMBOLS

Date: 04/07/2022
Scale: 12" = 1'-0"
Proj. Number: 20287.10
Drawing Number: E000

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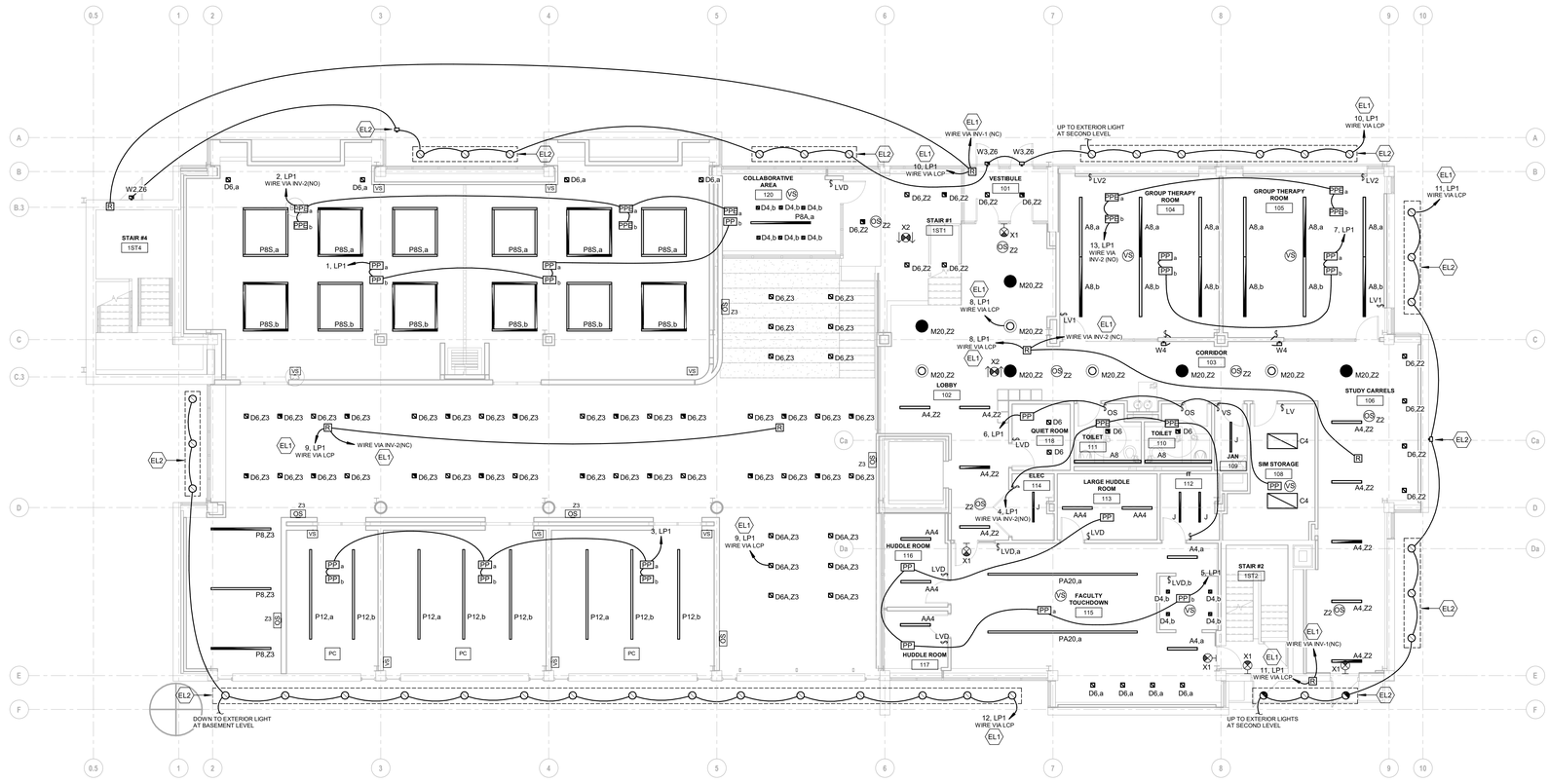
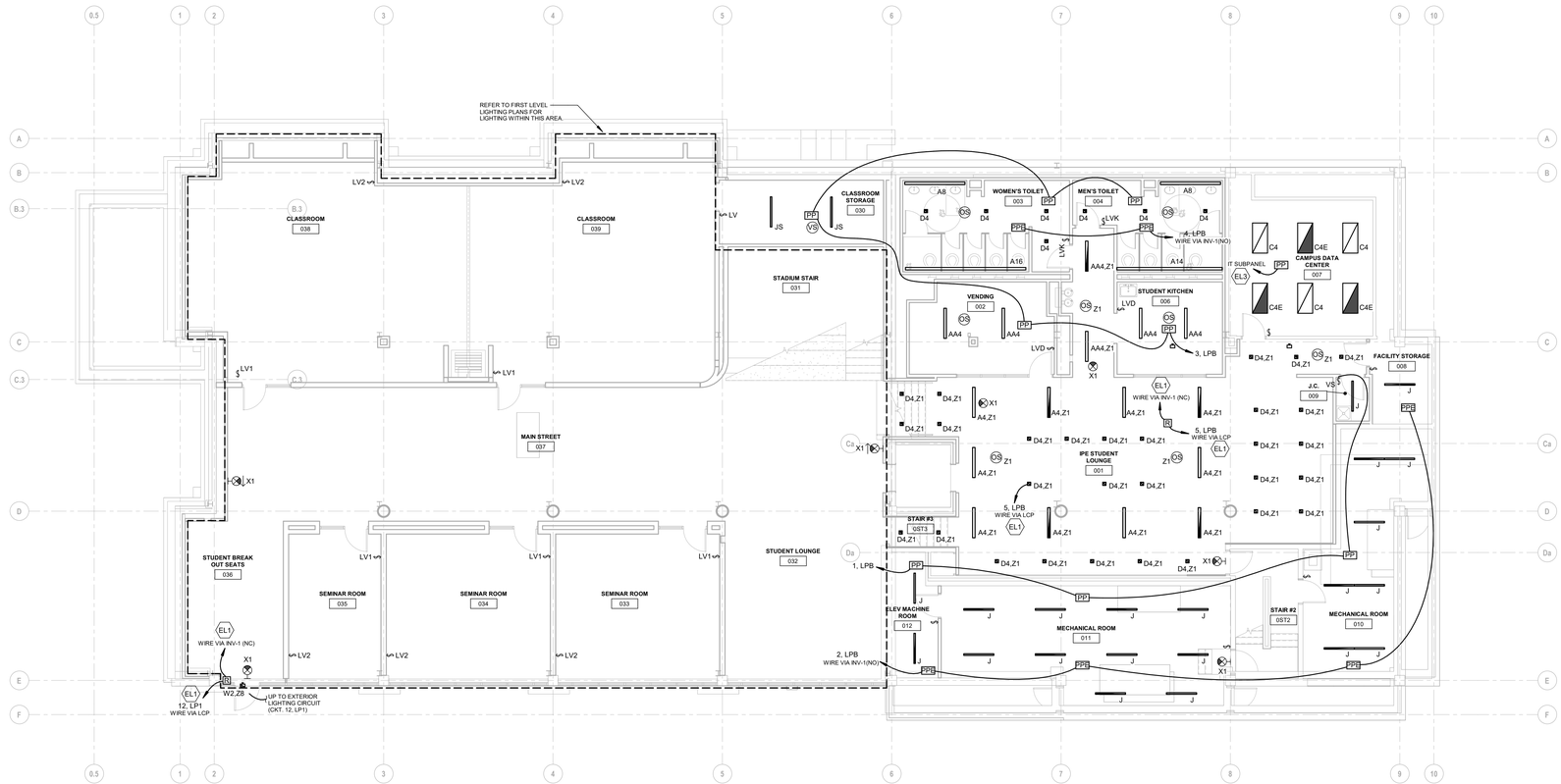


2 ELECTRICAL LIGHTING FIRST LEVEL FLOOR PLAN
1/8" = 1'-0"



1 ELECTRICAL LIGHTING BASEMENT LEVEL FLOOR PLAN
1/8" = 1'-0"

ELECTRICAL LIGHTING KEY NOTES

EL1 REFER TO LIGHTING CONTROL PANEL DETAIL 1/E506 FOR ADDITIONAL INFORMATION REGARDING CORRIDOR AND EXTERIOR LIGHTING ZONES. REFER TO INVERTER DETAIL 3/E503 FOR CIRCUITS CONNECTED TO AN INVERTER.

EL2 EXISTING EXTERIOR LIGHTING TO REMAIN. CONTRACTOR SHALL REMOVE, CLEAN, RELAMP, REINSTALL AND REWIRE LIGHT FIXTURES TO NEW EXTERIOR LIGHTING CIRCUIT SHOWN.

EL3 PROVIDE CONNECTION TO EXISTING PANELBOARD REFERENCED BY HOMERUN TAG. PROVIDE CONNECTION TO AVAILABLE 20A/1-POLE CIRCUIT BREAKER VIA 2#12 + 1#12G, 3/4"C.

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KEYPLAN

Number	Date	Issued For

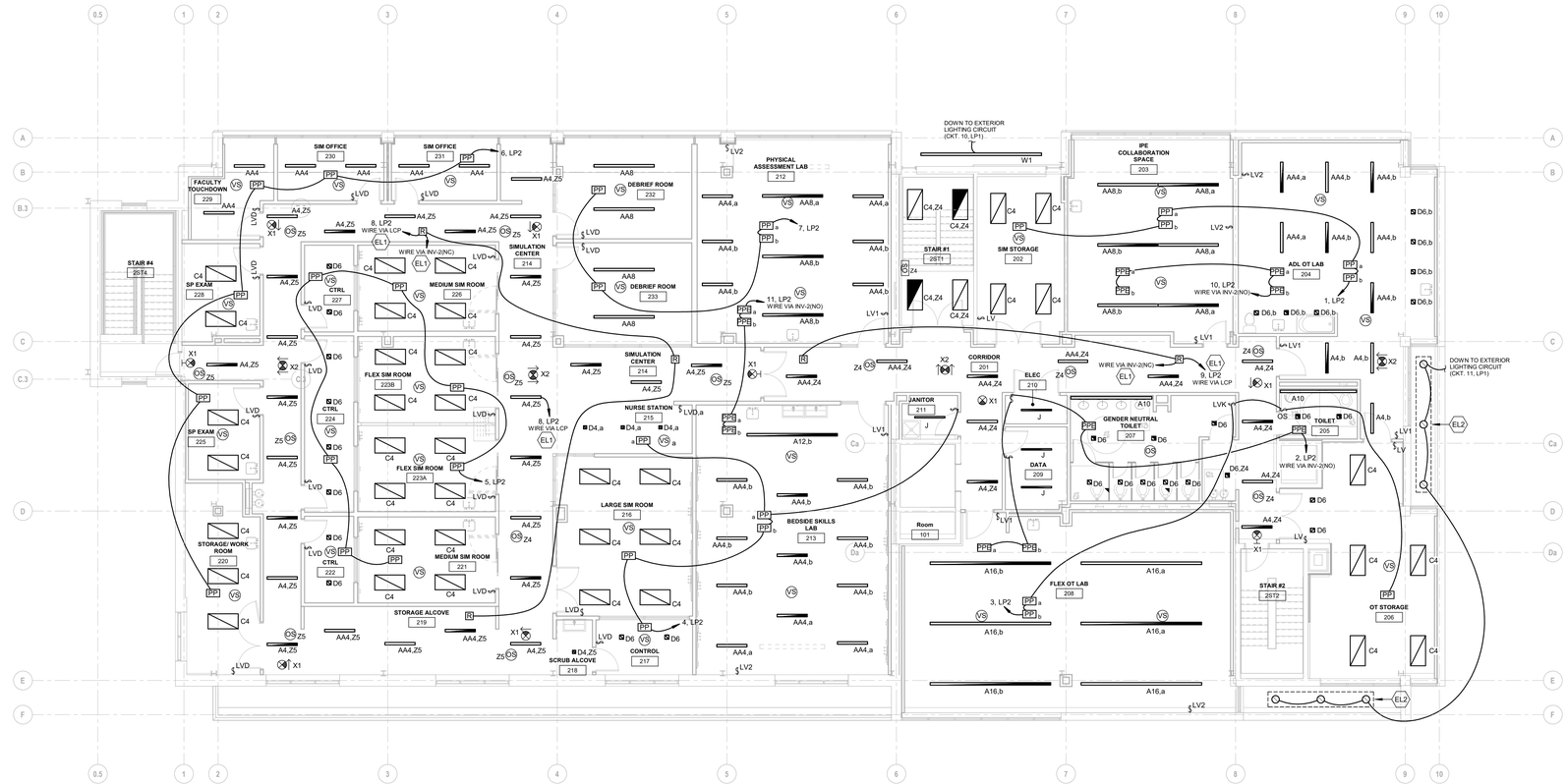
ELECTRICAL LIGHTING BASEMENT/ LOWER LEVEL AND FIRST FLOOR PLANS

Date: 04/07/2022
Scale: 1/8" = 1'-0"
Proj. Number: 20287.10

Drawing Number: EL101

ELECTRICAL LIGHTING KEY NOTES

EL1	REFER TO LIGHTING CONTROL PANEL DETAIL 1/E506 FOR ADDITIONAL INFORMATION REGARDING CORRIDOR AND EXTERIOR LIGHTING ZONES.
EL2	EXISTING EXTERIOR LIGHTING TO REMAIN. CONTRACTOR SHALL REMOVE, CLEAN, RELAMP, REINSTALL AND REWIRE LIGHT FIXTURES TO NEW EXTERIOR LIGHTING CIRCUIT SHOWN.



1 ELECTRICAL LIGHTING SECOND LEVEL FLOOR PLAN
1/8" = 1'-0"

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KEYPLAN

Number	Date	Issued For

ELECTRICAL LIGHTING SECOND FLOOR PLAN

Date
04/07/2022
Scale
1/8" = 1'-0"
Proj. Number
20287.10

Drawing Number
EL102

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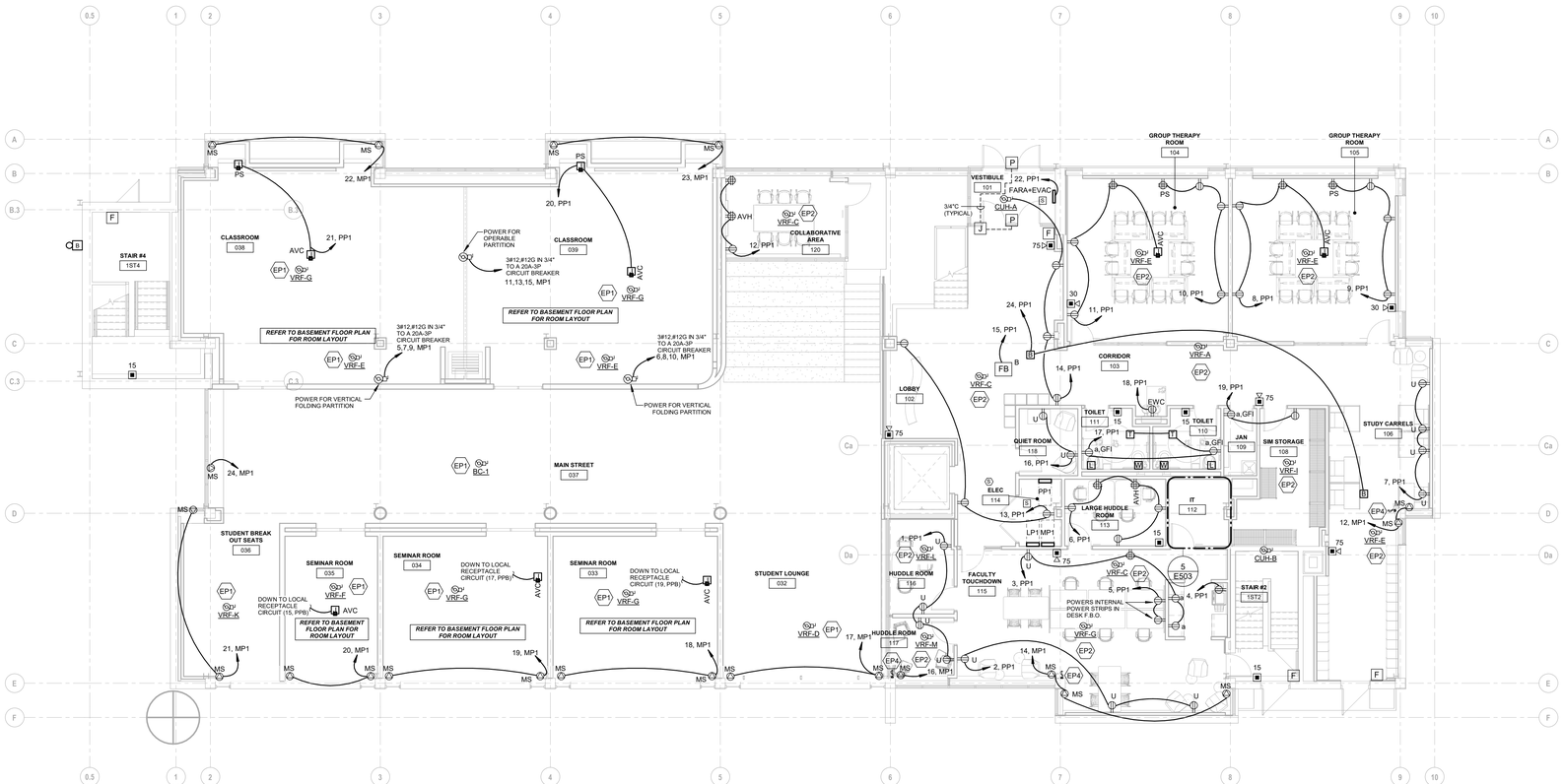
ELECTRICAL POWER KEY NOTES

(EP1) WIRE VRF'S & BC-1 TOGETHER TO A NEW 20A-2P CIRCUIT BREAKER IN PANEL MP1 CIRCUIT-1,3 WITH 2#12,#12G., IN 3/4"C..

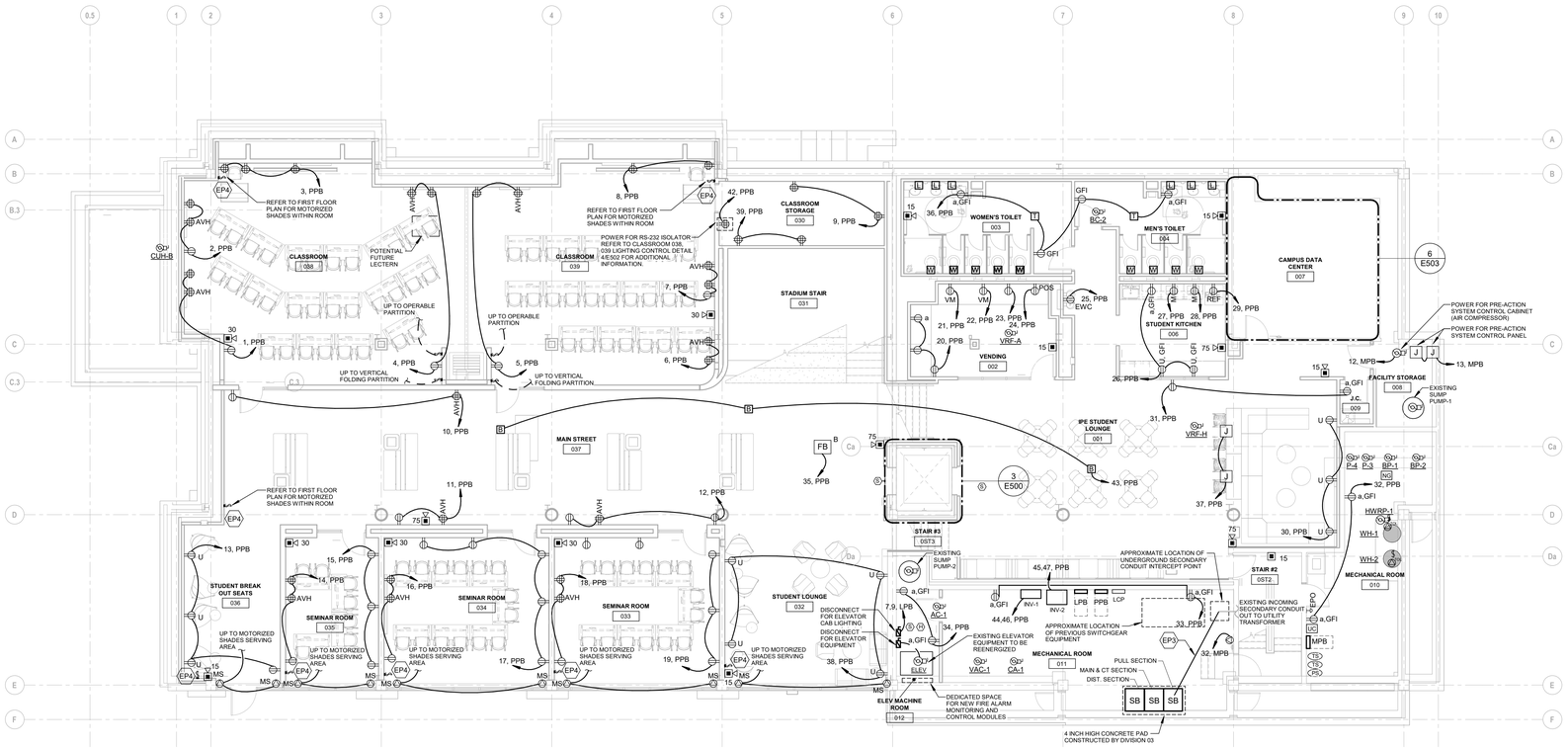
(EP2) WIRE VRF'S TOGETHER TO A NEW 20A-2P CIRCUIT BREAKER IN PANEL MP1 CIRCUIT-2,2 WITH 2#12,#12G., IN 3/4"C..

(EP3) EXTENSION OF EXISTING UNDERGROUNG SECONDARY INFRASTRUCTURE TO NEW SWITCHGEAR EQUIPMENT
1. COORDINATE AND PROVIDE SLAB CUTTING AND TRENCHING BETWEEN THE PREVIOUS LOCATION OF THE EXISTING AND NEW SWITCHGEAR.
2. COORDINATE AND PROVIDE THE REMOVAL OF EXISTING SECONDARY FEEDERS BACK TO UTILITY TRANSFORMER LOCATION. INTERCEPT AND PROVIDE WEATHERPROOF, UTILITY APPROVED COUPLING AND EXTENSION OF EXISTING CONDUITS TO THE LOCATION OF THE NEW SWITCHGEAR.
PROVIDE NEW SECONDARY SERVICE CONDUIT EXTENSION AND FEEDERS PER ONE LINE DIAGRAM 1/E200.
3. PROVIDE BACKFILL AND CONCRETE SLAB AS REQUIRED TO COVER ALL TRENCH WORK. COORDINATE UTILITY INSPECTION PRIOR TO COVERING.

(EP4) MOTORIZED SHADE LOCAL CONTROLS
PROVIDE 3/4" CONDUIT INFRASTRUCTURE FROM THE MOTORIZED CONTROLLER TO A SINGLE-GANG BOX FOR THE INSTALLATION OF A LOCAL CONTROL SWITCH. PROVIDED AS PART OF THE SHADE PACKAGE, AT LOCATIONS SHOWN ON PLANS. COORDINATE CONNECTION OF EACH MOTORIZED SHADE CONTROLLER TO THE BMS FOR SCHEDULED AUTOMATIC CLOSING VIA MANUFACTURER RECOMMENDED WIRING. COORDINATE PROGRAMMING AND INTERFACE WITH DIVISION 23.



2 ELECTRICAL POWER FIRST LEVEL FLOOR PLAN
1/8" = 1'-0"



1 ELECTRICAL POWER BASEMENT LEVEL FLOOR PLAN
1/8" = 1'-0"

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KEYPLAN

Number	Date	Issued For

ELECTRICAL POWER BASEMENT/ LOWER LEVEL AND FIRST FLOOR PLANS

Date: 04/07/2022
Scale: 1/8" = 1'-0"
Proj. Number: 20287.10
Drawing Number: EP101

ELECTRICAL POWER KEY NOTES

EP1 MOUNT QUAD RECEPTACLE IN POKE-THRU BOX SHOWN ON T101 AT THIS LOCATION.

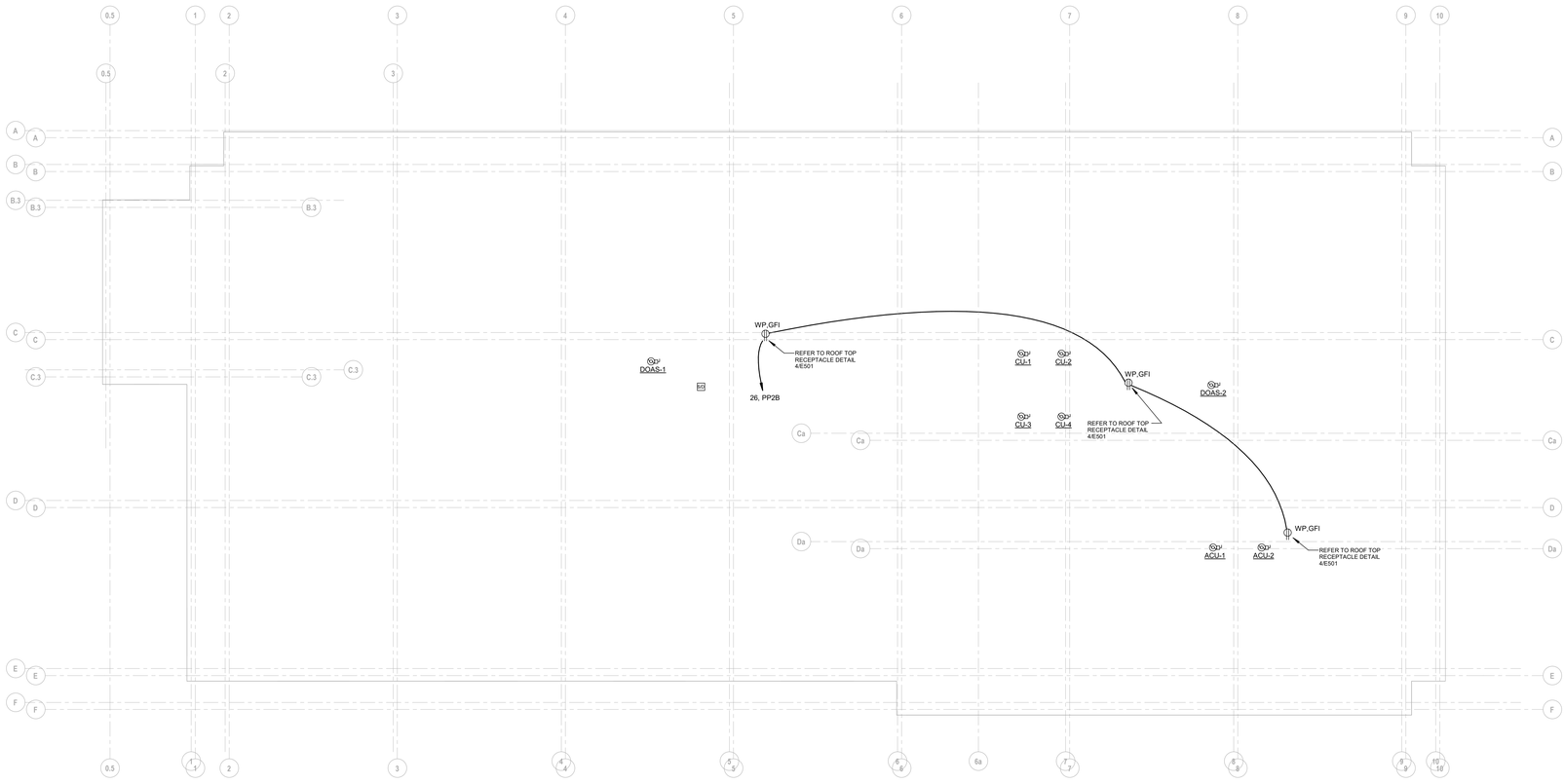
EP2 EXISTING MOTORIZED SHADE INFRASTRUCTURE
PROVIDE ELECTRICAL CONNECTION TO EXISTING MOTORIZED SHADE EQUIPMENT IN THE SPACE AS SHOWN ON PLANS. COORDINATE CONNECTION OF EACH MOTORIZED SHADE CONTROLLER TO THE BMS FOR SCHEDULED AUTOMATIC CLOSING VIA MANUFACTURER RECOMMENDED WIRING. COORDINATE PROGRAMMING AND INTERFACE WITH DIVISION 23.

EP3 MOTORIZED SHADE LOCAL CONTROLS
PROVIDE 3/4" CONDUIT INFRASTRUCTURE FROM THE MOTORIZED CONTROLLER TO A SINGLE-GANG BOX FOR THE INSTALLATION OF A LOCAL CONTROL SWITCH, PROVIDED AS PART OF THE SHADE PACKAGE, AT LOCATIONS SHOWN ON PLANS. COORDINATE CONNECTION OF EACH MOTORIZED SHADE CONTROLLER TO THE BMS FOR SCHEDULED AUTOMATIC CLOSING VIA MANUFACTURER RECOMMENDED WIRING. COORDINATE PROGRAMMING AND INTERFACE WITH DIVISION 23.

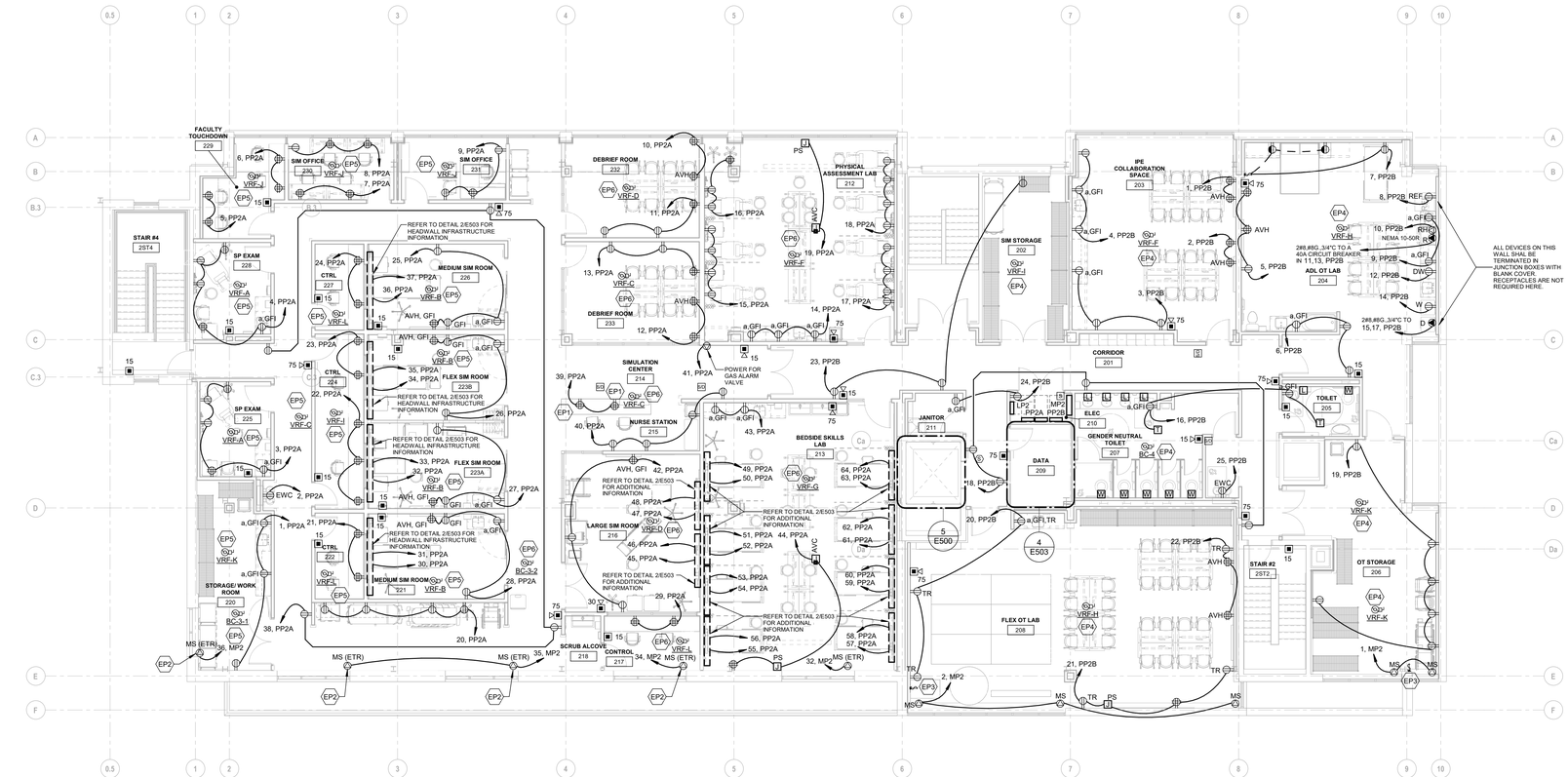
EP4 WIRE VRF'S & BC-4 TOGETHER TO A NEW 20A-2P CIRCUIT BREAKER IN PANEL MP2 CIRCUIT-37,39 WITH 2#12,#12G., IN 3/4"C.

EP5 WIRE VRF'S & BC-3-1 TOGETHER TO A NEW 20A-2P CIRCUIT BREAKER IN PANEL MP2 CIRCUIT-34,36 WITH 2#12,#12G., IN 3/4"C.

EP6 WIRE VRF'S & BC-3-2 TOGETHER TO A NEW 20A-2P CIRCUIT BREAKER IN PANEL MP2 CIRCUIT-33,35 WITH 2#12,#12G., IN 3/4"C.



2 ELECTRICAL POWER ROOF LEVEL FLOOR PLAN
1/8" = 1'-0"



1 ELECTRICAL POWER SECOND LEVEL FLOOR PLAN
1/8" = 1'-0"

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Number	Date	Issued For

ELECTRICAL POWER SECOND FLOOR AND ROOF PLANS

Date 04/07/2022
Scale 1/8" = 1'-0"
Proj. Number 20287.10
Drawing Number EP102

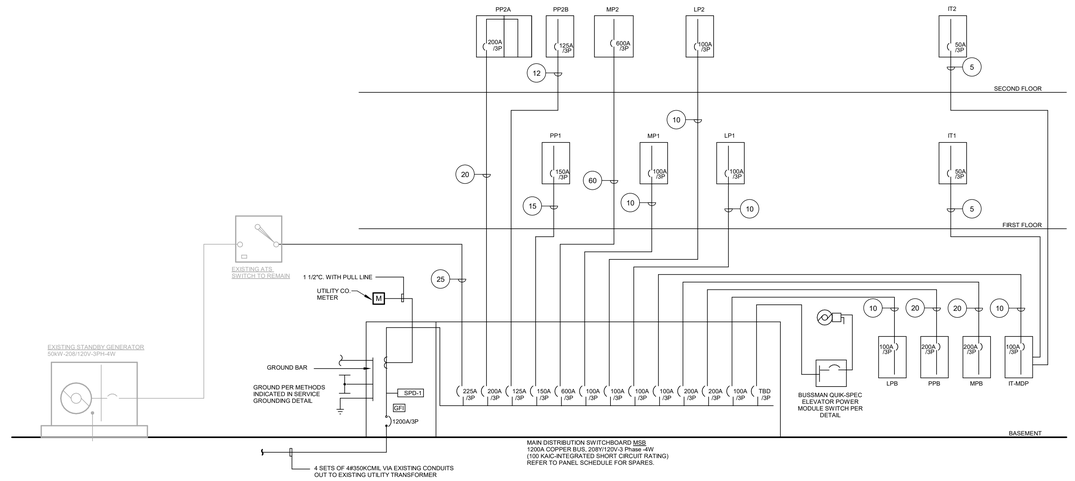
ELECTRICAL FEEDER SCHEDULE

COPPER CONDUCTORS

CIRCUIT SYMBOL	CONDUCTORS (1 PH, 2W) WITH GROUND	CONDUIT SIZE	CONDUCTORS (1 OR 3 PH, 3 WIRE) WITH GROUND	CONDUIT SIZE	CONDUCTORS (3 PH, 4 WIRE) WITH GROUND	CONDUIT SIZE	OVERCURRENT RATING
(1)	2#12 & 1#12G	3/4"	3#12 & 1#12G	3/4"	4#12 & 1#12G	3/4"	15A
(2)	2#12 & 1#12G	3/4"	3#12 & 1#12G	3/4"	4#12 & 1#12G	3/4"	20A
(2.5)	2#10 & 1#10G	3/4"	3#10 & 1#10G	3/4"	4#10 & 1#10G	3/4"	25A
(3)	2#10 & 1#10G	3/4"	3#10 & 1#10G	3/4"	4#10 & 1#10G	3/4"	30A
(3.5)	2#8 & 1#10G	1"	3#8 & 1#10G	1"	4#8 & 1#10G	1"	35A
(4)	2#8 & 1#10G	1"	3#8 & 1#10G	1"	4#8 & 1#10G	1"	40A
(4.5)	2#8 & 1#10G	1"	3#8 & 1#10G	1"	4#8 & 1#10G	1"	45A
(5)	2#8 & 1#10G	1"	3#8 & 1#10G	1"	4#8 & 1#10G	1"	50A
(6)	2#6 & 1#10G	1"	3#6 & 1#10G	1"	4#6 & 1#10G	1"	60A
(7)	2#4 & 1#8G	1 1/4"	3#4 & 1#8G	1 1/4"	4#4 & 1#8G	1 1/4"	70A
(8)	2#4 & 1#8G	1 1/4"	3#4 & 1#8G	1 1/4"	4#4 & 1#8G	1 1/4"	80A
(9)	2#3 & 1#8G	1 1/4"	3#3 & 1#8G	1 1/4"	4#3 & 1#8G	1 1/4"	90A
(10)	2#3 & 1#8G	1 1/4"	3#3 & 1#8G	1 1/4"	4#3 & 1#8G	1 1/4"	100A
(11)			3#2 & 1#6G	1 1/4"	4#2 & 1#6G	1 1/2"	110A
(12)			3#1 & 1#6G	1 1/2"	4#1 & 1#6G	2"	125A
(15)			3#1/0 & 1#6G	2"	4#1/0 & 1#6G	2"	150A
(17)			3#2/0 & 1#6G	2"	4#2/0 & 1#6G	2"	175A
(20)			3#3/0 & 1#6G	2"	4#3/0 & 1#6G	2 1/2"	200A
(22)			3#4/0 & 1#4G	2 1/2"	4#4/0 & 1#4G	2 1/2"	225A
(25)			3#250KCMIL & 1#4G	3"	4#250KCMIL & 1#4G	3"	250A
(30)			3#350KCMIL & 1#4G	3"	4#350KCMIL & 1#4G	4"	300A
(35)			3#500KCMIL & 1#3G	4"	4#500KCMIL & 1#3G	4"	350A
(40)			3#600KCMIL & 1#3G	4"	4#600KCMIL & 1#3G	4"	400A
(45)			(2)3#4/0 & 1#2G	(2) 2 1/2"	2 SETS OF 4#4/0 & 1#2G	(2) 2 1/2"	450A
(50)			(2)3#250KCMIL & 1#2G	(2) 3"	2 SETS OF 4#250KCMIL & 1#2G	(2) 3"	500A
(60)			(2)3#350KCMIL & 1#1G	(2) 3"	2 SETS OF 4#350KCMIL & 1#1G	(2) 4"	600A
(70)			(2)3#500KCMIL & 1#1/0G	(2) 4"	2 SETS OF 4#500KCMIL & 1#1/0G	(2) 4"	700A
(80)			(2)3#600KCMIL & 1#1/0G	(2) 4"	2 SETS OF 4#600KCMIL & 1#1/0G	(2) 4"	800A
(90)			(3)3#350KCMIL & 1#2/0G	(3) 3"	3 SETS OF 4#350KCMIL & 1#2/0G	(3) 4"	900A
(100)			(3)3#500KCMIL & 1#2/0G	(3) 4"	3 SETS OF 4#500KCMIL & 1#2/0G	(3) 4"	1000A
(120)			(4)3#350KCMIL & 1#3/0G	(4) 3"	4 SETS OF 4#350KCMIL & 1#3/0G	(4) 4"	1200A
(160)			(4)3#600KCMIL & 1#4/0G	(4) 4"	4 SETS OF 4#600KCMIL & 1#4/0G	(4) 4"	1600A
(200)			(5)3#600KCMIL & 1#250G	(5) 4"	5 SETS OF 4#600KCMIL & 1#250G	(5) 4"	2000A
(250)			(6)3#600KCMIL & 1#350G	(6) 4"	6 SETS OF 4#600KCMIL & 1#350G	(6) 4"	2500A
(300)			(8)3#500KCMIL & 1#500G	(8) 4"	8 SETS OF 4#500KCMIL & 1#500G	(8) 4"	3000A

NOTES:

1. CONDUIT SIZES ARE BASED ON THE NEC ANNEX C TABLES FOR EMT/SCH 40 WITH THHN/THWN CONDUCTORS. CONDUCTOR SIZES USED IN CONDUIT CALCULATION ARE BASED ON THE SIZE OF THE HOT CONDUCTORS OF CIRCUIT. EXAMPLE: 40A 3PH, 4W CONDUIT SIZE IS BASED ON 4#8 + 1#8G + 1#8 'SPACE'. FOR ACTUAL WIRE INSTALL USE QUANTITY AND SIZES WITHIN SCHEDULE.
2. UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED ABOVE FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CIRCUIT WHERE INDICATED.
3. PROVIDE MINIMUM SIZE CONDUIT INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS.
4. FOR SINGLE PHASE FEEDERS, PROVIDE A 3-WIRE CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL. FOR THREE PHASE FEEDERS, PROVIDE A 4-WIRE CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL.
5. PROVIDE TYPE OF RACEWAY OR CABLE AS INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS.
6. REFER TO PANELBOARD SCHEDULES AND ONE-LINE RISER DIAGRAM DRAWINGS FOR CONDUCTOR AND CONDUIT SIZE REQUIREMENTS.
7. ALL CONDUCTOR SIZES ARE BASED ON 75°C (167°F), ALL EQUIPMENT CONNECTED TO WIRES SHALL BE RATED OR 75°C (167°F)



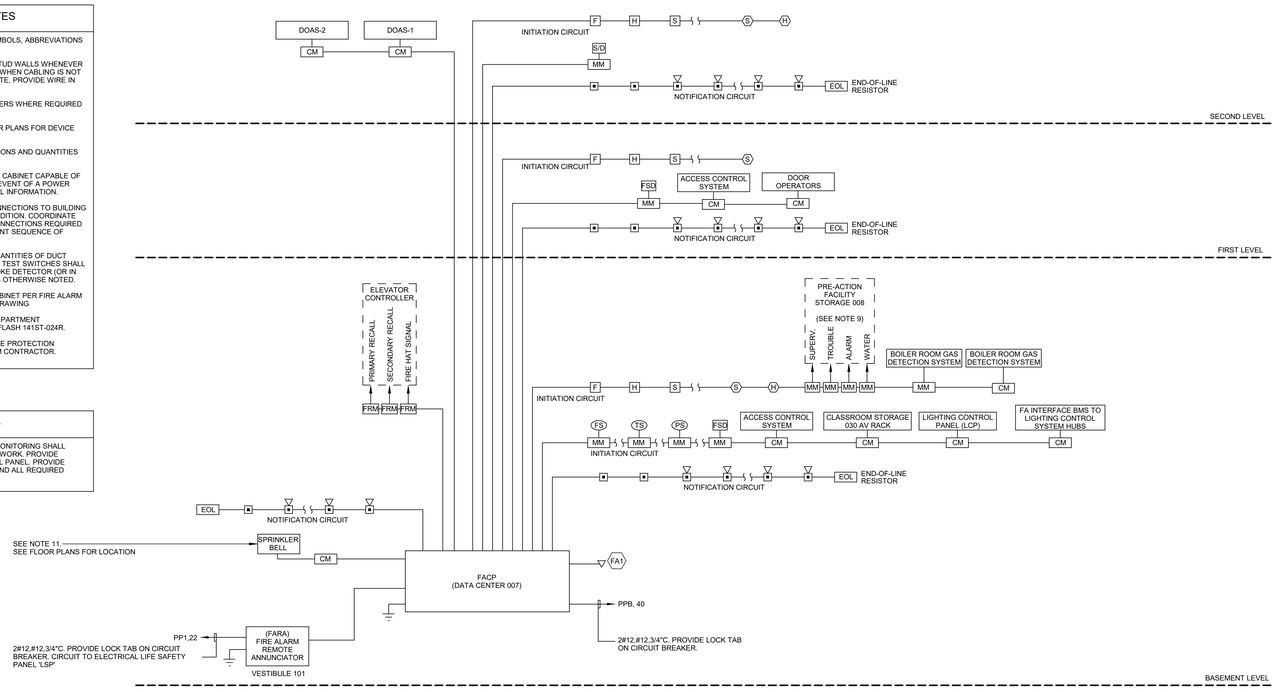
1 ELECTRICAL POWER RISER
N.T.S.

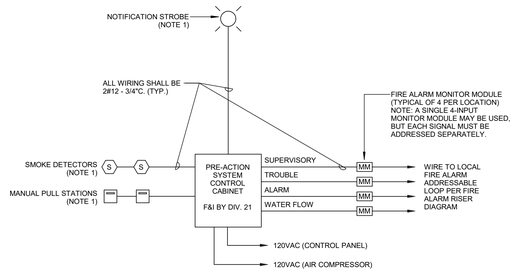
FIRE ALARM GENERAL NOTES

1. REFER TO DRAWING E0.00 FOR DESCRIPTION OF SYMBOLS, ABBREVIATIONS AND NOTES.
2. CABLES SHALL BE ROUTED ABOVE CEILING AND IN STUD WALLS WHENEVER POSSIBLE. FIRE ALARM MC CABLING IS ACCEPTABLE WHEN CABLING IS NOT EXPOSED. WHERE EXPOSED OR ROUTED IN CONCRETE, PROVIDE WIRE IN CONDUIT.
3. PROVIDE EXTRA POWER SUPPLIES AND TRANSPONDERS WHERE REQUIRED BY MANUFACTURER.
4. TYPICAL DEVICES SHOWN IN RISER. REFER TO FLOOR PLANS FOR DEVICE QUANTITIES AND LOCATIONS.
5. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS AND QUANTITIES OF FLOW AND TAMPER SWITCHES.
6. CONTRACTOR IS RESPONSIBLE FOR SIZING BATTERY CABINET CAPABLE OF SUPPORTING BUILDING FIRE ALARM SYSTEM IN THE EVENT OF A POWER FAILURE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. PROVIDE FIRE ALARM CONTROL MODULE(S) AND CONNECTIONS TO BUILDING MANAGEMENT SYSTEM TO REPORT FIRE ALARM CONDITION. COORDINATE EXACT POINT OF CONNECTION AND QUANTITY OF CONNECTIONS REQUIRED WITH HVAC CONTRACTOR AND BUILDING MANAGEMENT SEQUENCE OF OPERATION PRIOR TO INSTALLATION.
8. REFER TO HVAC DRAWINGS FOR LOCATIONS AND QUANTITIES OF DUCT SMOKE DETECTORS AND SMOKE DAMPERS. REMOTE TEST SWITCHES SHALL BE FLUSHED IN CEILING DIRECTLY BELOW DUCT SMOKE DETECTOR (OR IN CLOSEST DROPPED CEILING TO DETECTOR), UNLESS OTHERWISE NOTED.
9. PROVIDE CONNECTIONS TO PRE-ACTION SYSTEM CABINET PER FIRE ALARM RISER DIAGRAM ON THIS DRAWING AND DETAIL ON DRAWING
10. PROVIDE EXTERIOR RED BEACON LIGHT FOR FIRE DEPARTMENT NOTIFICATION EQUAL TO FEDERAL SIGNAL ELECTRAFLASH 141ST-024R.
11. ELECTRIC SPRINKLER BELL FURNISHED BY DIV.21 FIRE PROTECTION CONTRACTOR AND INSTALLED/WIRED BY FIRE ALARM CONTRACTOR.

FIRE ALARM KEY NOTES

(FA1) PRIMARY COMMUNICATION TO CENTRAL STATION MONITORING SHALL BE VIA IP-BASED CONNECTION TO LOCAL AREA NETWORK. PROVIDE CONNECTIVITY TO LOCAL I.T. ROOM FROM CONTROL PANEL. PROVIDE INTERNAL ETHERNET COMMUNICATIONS MODULE AND ALL REQUIRED PROGRAMMING TO REPORT TO CENTRAL STATION.





NOTES:
1. PULL STATIONS, SMOKE DETECTORS AND NOTIFICATION APPLIANCES ASSOCIATED WITH THE PRE-ACTION SYSTEM SHALL BE FURNISHED BY DIV. 21 FIRE PROTECTION CONTRACTOR AND INSTALLED/ WIRED BY DIV. 28 FIRE ALARM. COORDINATE EXACT LOCATIONS AND QUANTITY OF ALL DEVICES WITH PRE-ACTION SYSTEM INSTALLER PRIOR TO ROUGH-IN.
2. REFER TO FIRE ALARM RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.

4 FIRE SUPPRESSION PRE-ACTION SYSTEM CONNECTIONS DETAIL
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ELECTRICAL RISER DIAGRAMS

Date: 04/07/2022
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Drawing Number: E200

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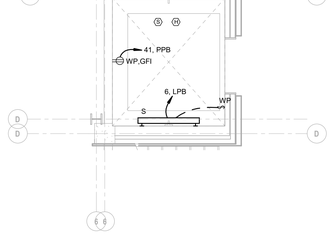
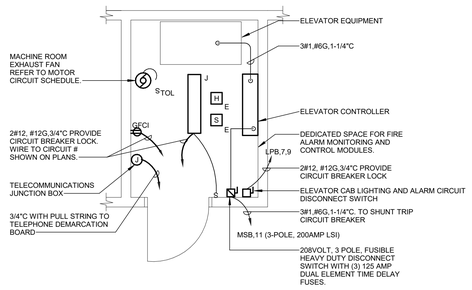
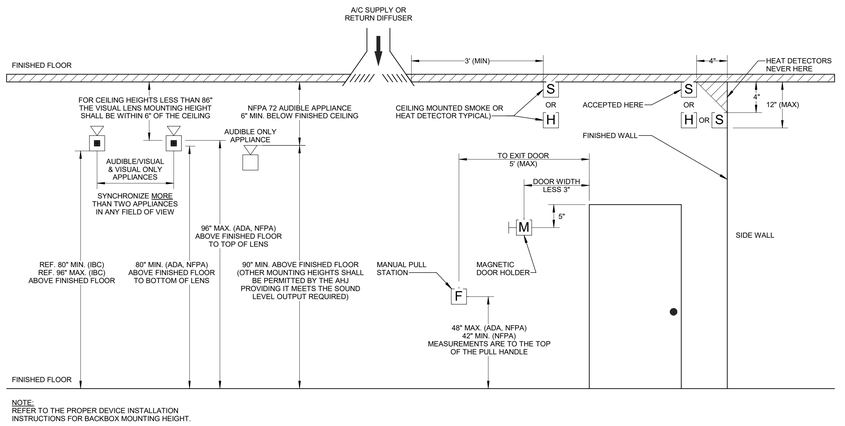


3 ELEVATOR PIT DESIGN GUIDE
1/4" = 1'-0"

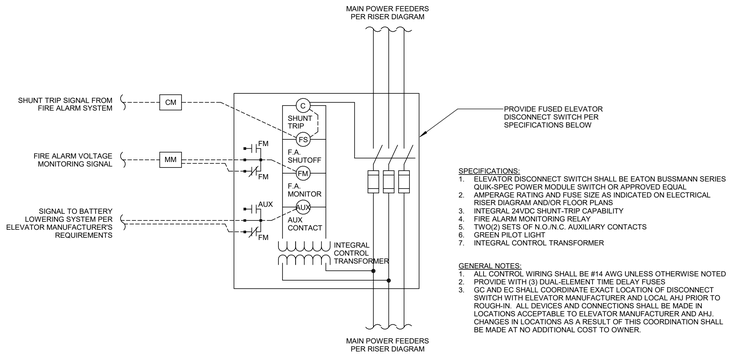


2 ELEVATOR MACHINE ROOM DESIGN GUIDE
NTS



NOTE:
REFER TO THE PROPER DEVICE INSTALLATION INSTRUCTIONS FOR BACKBOX MOUNTING HEIGHT.

1 FIRE ALARM DEVICE MOUNTING HEIGHT REFERENCE DETAIL
N.T.S.



SPECIFICATIONS:
1. ELEVATOR DISCONNECT SWITCH SHALL BE EATON BUSSMANN SERIES QUIK-SPEC POWER MODULE SWITCH OR APPROVED EQUAL
2. AMPERAGE RATING AND FUSE SIZE AS INDICATED ON ELECTRICAL RISER DIAGRAM AND/OR FLOOR PLANS
3. INTEGRAL 24VDC SHUNT-TRIP CAPABILITY
4. FIRE ALARM MONITORING RELAY
5. TWO(2) SETS OF N.O./N.C. AUXILIARY CONTACTS
6. GREEN PILOT LIGHT
7. INTEGRAL CONTROL TRANSFORMER

GENERAL NOTES:
1. ALL CONTROL WIRING SHALL BE #14 AWG UNLESS OTHERWISE NOTED
2. PROVIDE WITH (3) DUAL-ELEMENT TIME DELAY FUSES
3. GC AND EC SHALL COORDINATE EXACT LOCATION OF DISCONNECT SWITCH WITH ELEVATOR MANUFACTURER AND LOCAL AHJ PRIOR TO ROUGH-IN. ALL DEVICES AND CONNECTIONS SHALL BE MADE IN LOCATIONS ACCEPTABLE TO ELEVATOR MANUFACTURER AND AHJ. CHANGES IN LOCATIONS AS A RESULT OF THIS COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO OWNER.

4 ELEVATOR DISCONNECT SWITCH DETAIL
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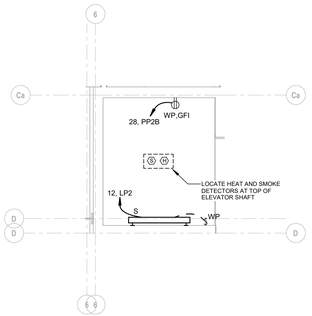
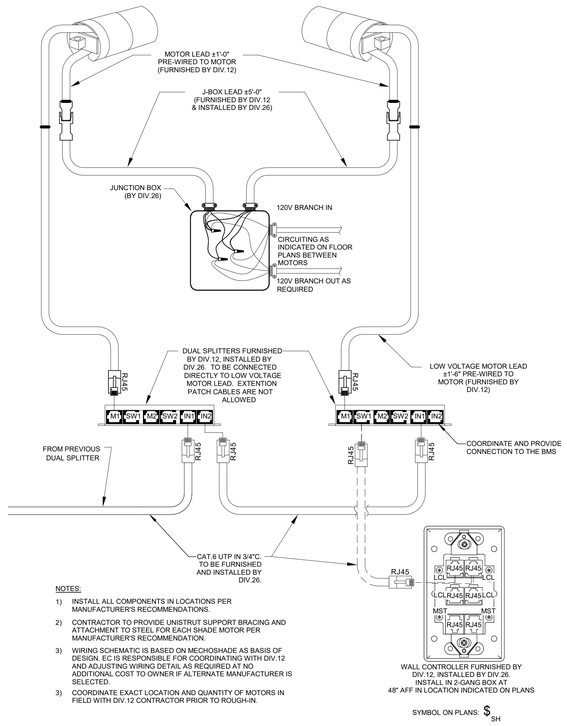


5 ELEVATOR TOP OF SHAFT DESIGN GUIDE
1/4" = 1'-0"



NOTES:
1) INSTALL ALL COMPONENTS IN LOCATIONS PER MANUFACTURER'S RECOMMENDATIONS.
2) CONTRACTOR TO PROVIDE UNISTRUT SUPPORT BRACING AND ATTACHMENT TO STEEL FOR EACH SHADE MOTOR PER MANUFACTURER'S RECOMMENDATION.
3) WIRING SCHEMATIC IS BASED ON MECHOSHADE AS BASIS OF DESIGN. EC IS RESPONSIBLE FOR COORDINATING WITH DIV.12 AND ADJUSTING WIRING DETAIL AS REQUIRED AT NO ADDITIONAL COST TO OWNER IF ALTERNATE MANUFACTURER IS SELECTED.
3) COORDINATE EXACT LOCATION AND QUANTITY OF MOTORS IN FIELD WITH DIV.12 CONTRACTOR PRIOR TO ROUGH-IN.

8 MOTORIZED SHADE WIRING SCHEMATIC
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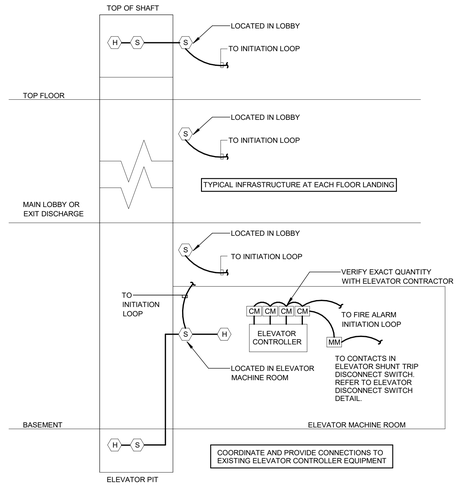

7 ADDRESSABLE FIRE ALARM SYSTEM ELEVATOR RECALL RISER
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Number	Date	Issued For

ELECTRICAL DETAILS

Date 04/07/2022
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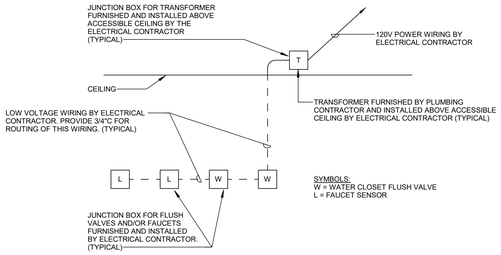
Drawing Number E500



NOTES:
1. COORDINATE LOW VOLTAGE WIRING WITH PLUMBING CONTRACTOR SUPPLIED SENSORS, MINIMUM 16 AWG, 2 CONDUCTOR CABLE.
2. COORDINATE MAXIMUM NUMBER OF SENSORS TO BE WIRED TO A SINGLE TRANSFORMER WITH PLUMBING CONTRACTOR SUPPLIED TRANSFORMER.
3. WIRE TRANSFORMER TO UNSWITCHED SIDE OF NEAREST UNSWITCHED RECEPTACLE CIRCUIT. DO NOT CONNECT TO LOAD SIDE OF ANY GFCI PROTECTED RECEPTACLE.
4. ALL FINAL WIRING CONNECTIONS TO PLUMBING FIXTURES SHALL BE INSTALLED IN CONDUIT. EXPOSED LOW VOLTAGE WIRING IS NOT ACCEPTABLE.

2 PLUMBING FIXTURE WIRING DETAIL
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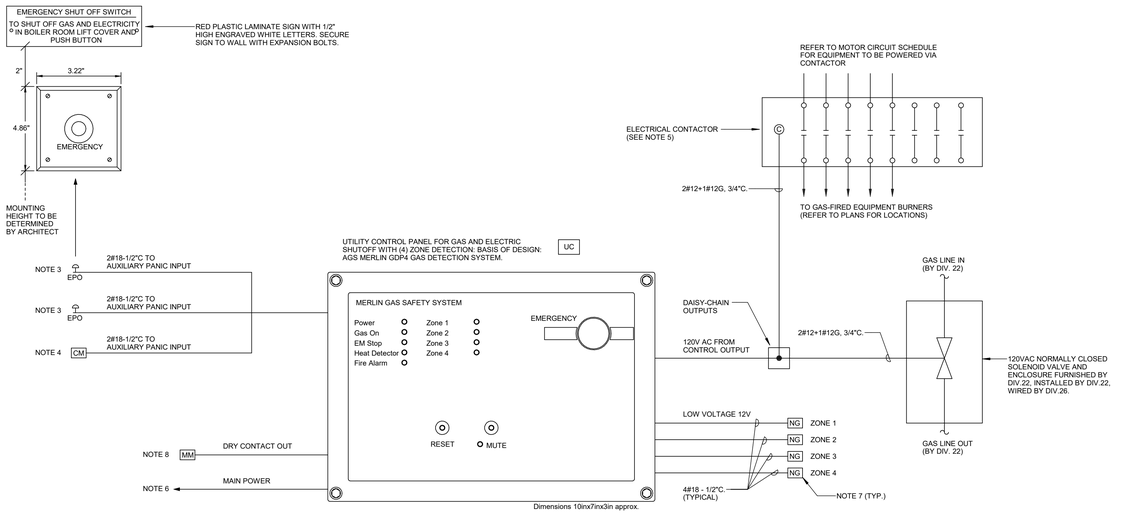
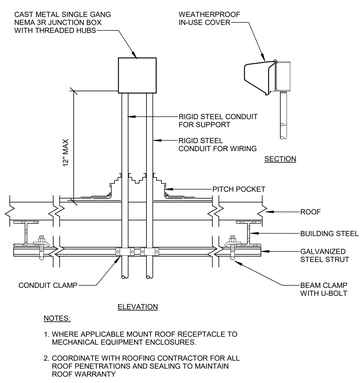


SEQUENCE OF OPERATION:
1. UNDER NORMAL OPERATION, THE CONTROL PANEL IS POWERED, THE SOLENOID VALVE IS POWERED AND OPEN, AND THE ELECTRICAL CONTACTOR IS POWERED AND CLOSED.
2. EMERGENCY PUSHBUTTON OPERATION (AT CONTROL PANEL OR REMOTE), OR FIRE ALARM INPUT SHALL CLOSE SOLENOID VALVES AND OPEN ELECTRICAL CONTACTOR.
3. GAS DETECTION SHALL CLOSE GAS SOLENOID VALVE AND REPORT SIGNAL TO THE FIRE ALARM SYSTEM.
4. RESET SYSTEM VIA RESET BUTTON AT CONTROL PANEL OR TWIST-TO-RESET FUNCTION AT REMOTE EPO PUSHBUTTON.
5. SYSTEM SHALL BE CONFIGURED IN AUTO-RESET MODE. WHEN POWER IS LOST TO THE CONTROL PANEL, AND IS RE-ESTABLISHED, THE VALVE SHALL AUTOMATICALLY OPEN AND THE ELECTRICAL CONTACTOR SHALL AUTOMATICALLY CLOSE. MANUAL RESET SHALL NOT BE REQUIRED IN THIS SITUATION.

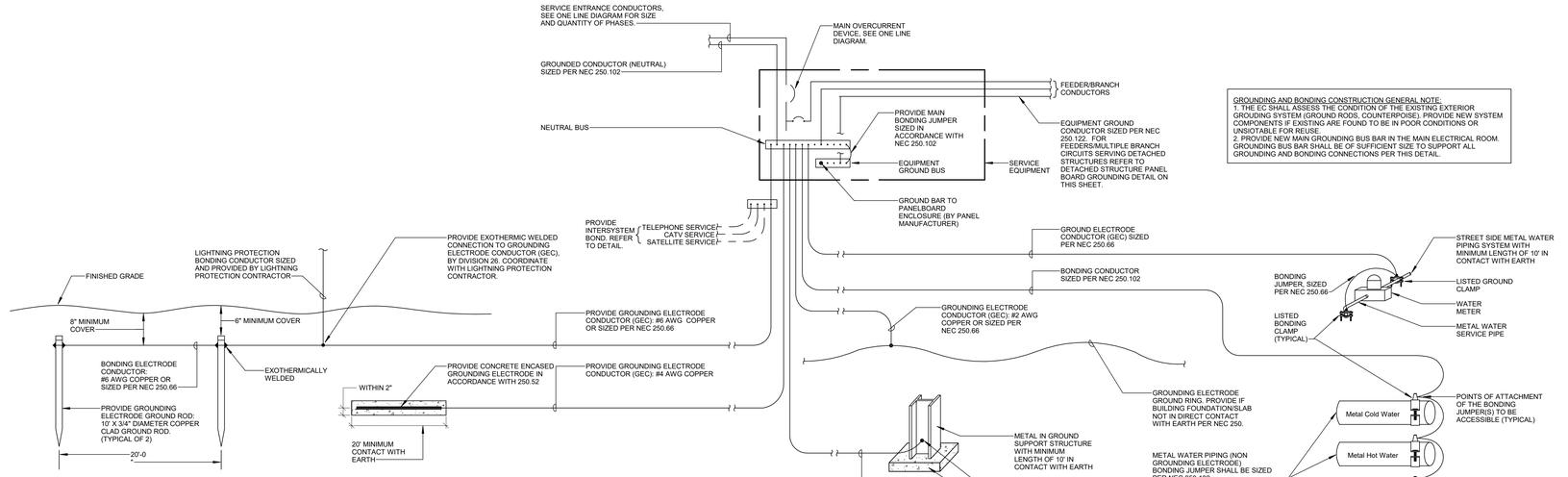
NOTES:
1. REFER TO FLOOR PLANS FOR LOCATIONS OF CONTROLLER. EPO SHUTDOWN BUTTONS AND SOLENOIDS. COORDINATE BETWEEN ELECTRICAL AND PLUMBING DRAWINGS.
2. UNLESS NOTED OTHERWISE, ALL EQUIPMENT, WIRING, ELECTRICAL CONNECTIONS AND TESTING BY DIV. 26. COORDINATE SOLENOID VALVE CABINET LOCATION(S) AND FIELD WIRING WITH DIV. 22.
3. STI MODEL #SS202-9-PO-EN PUSHBUTTON, QUANTITY SHOWN ON PLANS, WIRED IN PARALLEL:
   A. WITH (1) N.O. AND (1) N.C. CONTACT COMPATIBLE WITH CONTROL PANEL INPUT
   B. RED COLOR WITH "EMERGENCY POWER OFF" LEGEND
   C. NON-ALARMED FLIP UP FLUSHED COVER
   D. TURN-TO-RESET, MAINTAINED OPERATION
4. FIRE ALARM CONTROL MODULE WIRED IN PARALLEL WITH EMERGENCY SHUTOFF (EPO) BUTTON INPUT(S).
5. SQUARE D CLASS 8903 SERIES MECHANICALLY HELD CONTACTOR WITH 2-WIRE CONTROL INTERFACE OR APPROVED EQUAL. PROVIDE CONTACTOR WITH QUANTITY OF POLES REQUIRED TO SHUT POWER DOWN TO EQUIPMENT LISTED PLUS (3) SPARE POLES. COORDINATE LOCATION IN EQUIPMENT ROOM IN FIELD.
6. POWER VIA 2#12+1#12G, 3/4"C. TO LOCAL UNSWITCHED RECEPTACLE CIRCUIT NOT CONTROLLED VIA ELECTRICAL CONTACTOR.
7. NATURAL GAS DETECTOR: MODEL AGSNGXS. MOUNT TO A SINGLE GANG BOX ON WALL OR ON BOILER SUPPORT AT 5'-6" AFF. PROVIDE ONE PER BOILER AND MOUNT DIRECTLY ABOVE GAS CONNECTION TO BOILER WHERE DETECTORS ARE NOT SHOWN ON PLANS. COORDINATE LOCATION IN EQUIPMENT ROOM IN FIELD.
8. DRY CONTACT OUTPUT TO FIRE ALARM MONITORING MODULE TO REPORT TO FIRE ALARM SYSTEM UPON GAS DETECTION.

1 BOILER ROOM GAS AND ELECTRIC SHUTOFF DETAIL
NTS



NOTES:
1. WHERE APPLICABLE MOUNT ROOF RECEPTACLE TO MECHANICAL EQUIPMENT ENCLOSURES.
2. COORDINATE WITH ROOFING CONTRACTOR FOR ALL ROOF PENETRATIONS AND SEALING TO MAINTAIN ROOF WARRANTY

4 ROOF MOUNTED RECEPTACLE DETAIL
NTS



NOTES:
1. THE INTENT OF THIS DETAIL IS TO ILLUSTRATE THE DESIGN OF THE PROJECT GROUNDING ELECTRODE SYSTEM AND SYSTEM BONDING AS INDICATED BY THE WORD "PROVIDE", PER NEC 250. IF OTHER GROUNDING ELECTRODES OR PIPING/METAL SYSTEMS ARE PRESENT THE REQUIREMENTS OF NEC 250 MUST ALSO BE MET.
2. PROVIDE GROUND ENHANCEMENT MATERIAL (GEM) AS REQUIRED.
3. PROVIDE ALL ADDITIONAL REQUIREMENTS OF NEC 250 INCLUDING MAIN BONDING, SYSTEM BONDING, SUPPLY AND SUPPLY SIDE JUMPERS AS REQUIRED.

3 GROUNDING ELECTRODE SYSTEM AND BONDING DETAIL
NTS

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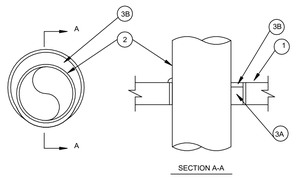
KEYPLAN

Number	Date	Issued For

ELECTRICAL DETAILS

Date 04/07/2022
Scale NTS
Proj. Number 20287.10

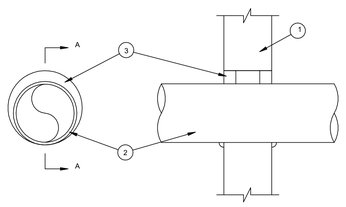
Drawing Number E501



SECTION A-A

1. FLOOR ASSEMBLY — MIN 2-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. MAX DIAMETER OF OPENING IS 31-7/8 IN.
2. THROUGH PENETRANTS — ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED CONCENTRICALLY WITHIN THE FIRESTOP DEVICE. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR ASSEMBLY.
3. FIRESTOP SYSTEM — THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. PACKING MATERIAL — MIN 2 IN THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION TIGHTLY PACKED INTO THE OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIALS* - SEALANT MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. AT POINT CONTACT, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/SLEEVE/PIPE INTERFACE ON TOP SURFACE OF FLOOR.

   SEALANT: HILTI FS-ONE OR APPROVED EQUAL.
   *BEARING THE UL CLASSIFICATION MARK

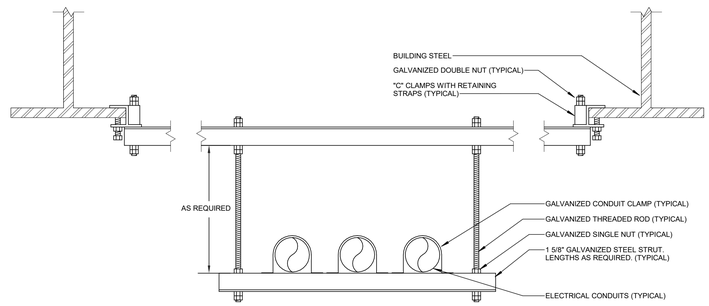


SECTION A-A

1. WALL ASSEMBLY - MIN 3-3/4 IN. AND 5 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS.
2. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBE MAY BE INSTALLED AT AN AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. FILL, VOID OR CAVITY MATERIAL* - MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL. A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE-WALL INTERFACE ON BOTH SURFACES OF WALL.

   SEALANT: FS-ONE SEALANT
   *BEARING THE UL CLASSIFICATION MARK
4. PROVIDE A BEAD OF NON-SHRINK, WP SILICON SEALANT AROUND EXTERIOR WALL PENETRATIONS.

2 UL LISTED CONDUIT SLEEVE FIRESTOPPING SPECIFICATIONS
NTS



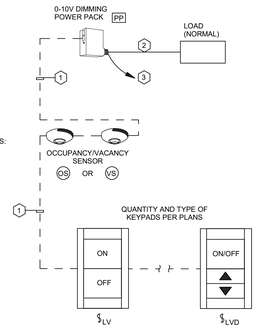
NOTES:
1. PROVIDE ALL REQUIRED HARDWARE INCLUDING BUT NOT LIMITED TO THREADED ROD, WASHERS, BOLTS, BEAM CLAMPS, STRAPS, AND CHANNEL SPRING NUTS.
2. QUANTITIES AND SIZE OF CONDUITS VARY.

1 TYPICAL CONDUIT HANGING DETAIL
1/8" = 1'-0"

SEQUENCE OF OPERATIONS:
1. ROOM OCCUPANCY SENSORS SHALL BE SET FOR AUTO ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
2. ROOM VACANCY SENSORS SHALL BE SET FOR MANUAL ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
3. MANUAL-ON/OFF VIA LOCAL "LV" AND "LVD" KEYPADS.
4. 3-BUTTON "LVD" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON/OFF": TURN ALL LIGHTS ON/OFF
   - BUTTON 2: "▲": PRESS TO RAISE ALL LIGHTS
   - BUTTON 3: "▼": PRESS TO LOWER ALL LIGHTS
5. 2-BUTTON "LV" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON": TOGGLE ALL LIGHTS ON
   - BUTTON 2: "OFF": TOGGLE ALL LIGHTS OFF
6. WHERE PHOTOCELL IS INDICATED ON PLANS, ZONE SHALL HAVE AUTOMATIC DIMMING VIA PHOTOCELL AND SHALL CAP MAXIMUM LIGHT LEVEL OF 40 FOOT-CANDLES IN THIS ZONE.

WIRING LEGEND:
1. CAT.5E
2. 2#12 + #12G (SWITCHED HOT/NEUTRAL) AND 2#18 AWG (0-10V +/-)
3. 2#12 + #12 GND. TO NORMAL POWER FEED INDICATED ON FLOOR PLANS.

GENERAL NOTES:
1. BASIS OF DESIGN IS ACUITY NLIGHT.
2. PROVIDE FACTORY COMMISSIONING OF ALL SENSORS, PHOTOCELLS AND CONTROLS.
3. REFER TO FLOOR PLANS FOR EXACT LIGHTING FIXTURES ON EACH ZONE, AND QUANTITY AND LOCATION OF ALL DEVICES.
4. FINISHES AND COLORS OF ALL LIGHTING CONTROL DEVICES AND SWITCH PLATES SHALL BE SELECTED BY ARCHITECT
5. SENSORS SHALL BE PROVIDED WITH AUXILIARY RELAY OPTION FOR CONNECTION TO BMS BY DIVISION 23 CONTRACTOR.
6. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.



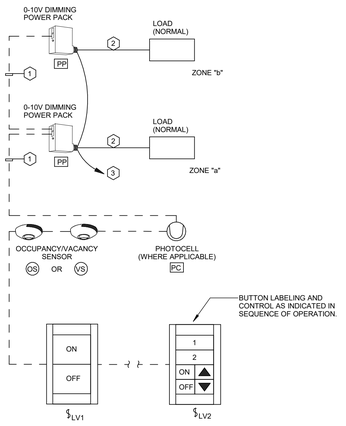
TYPICAL 1-ZONE LIGHTING CONTROL DETAIL - NORMAL FIXTURES ONLY
N.T.S.

GENERAL NOTES:
1. BASIS OF DESIGN IS ACUITY NLIGHT.
2. PROVIDE FACTORY ENGRAVING ON ALL WALL SWITCHES AND ROOM CONTROLLER BUTTONS AS INDICATED IN THIS DETAIL.
3. PROVIDE FACTORY COMMISSIONING OF ALL SENSORS, PHOTOCELLS AND CONTROLS.
4. REFER TO FLOOR PLANS FOR EXACT LIGHTING FIXTURES ON EACH ZONE, AND QUANTITY AND LOCATION OF ALL DEVICES.
5. FINISHES AND COLORS OF ALL LIGHTING CONTROL DEVICES AND SWITCH PLATES SHALL BE SELECTED BY ARCHITECT
6. SENSORS SHALL BE PROVIDED WITH AUXILIARY RELAY OPTION FOR CONNECTION TO BMS BY DIVISION 23 CONTRACTOR.
7. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.

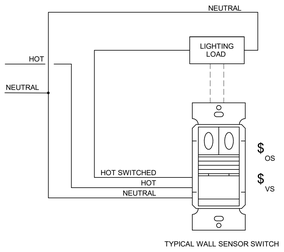
SEQUENCE OF OPERATIONS:
1. SUGGESTED LABELING SHOWN. SUBMIT TO OWNER FOR APPROVAL PRIOR TO ORDERING.
2. ROOM OCCUPANCY SENSORS SHALL BE SET FOR AUTO ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
3. ROOM VACANCY SENSORS SHALL BE SET FOR MANUAL ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
4. 6-BUTTON "LV2" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "AV": CONTROLS ZONE "a"
   - BUTTON 2: "GENERAL": CONTROLS ZONES "b"
   - BUTTON 3: "ON": TURN ALL LIGHTS ON
   - BUTTON 4: "OFF": TURN ALL LIGHTS OFF
   - BUTTON 5: "▲": RAISE ASSOCIATED ZONE
   - BUTTON 6: "▼": LOWER ASSOCIATED ZONE
5. 2-BUTTON "LV1" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON": TURN ALL LIGHTS ON
   - BUTTON 2: "OFF": TURN ALL LIGHTS OFF

* ZONE SHALL HAVE AUTOMATIC DIMMING VIA PHOTOCELL. PHOTOCELL SHALL CAP MAXIMUM LIGHT LEVEL OF 50 FOOT-CANDLES IN THIS ZONE.

WIRING LEGEND:
1. CAT.5E
2. 2#12 + #12G (SWITCHED HOT/NEUTRAL) AND 2#18 AWG (0-10V +/-)
3. 2#12 + #12 GND. TO NORMAL POWER FEED INDICATED ON FLOOR PLANS.



TYPICAL MULTI-ZONE LIGHTING CONTROL DETAIL - NORMAL FIXTURES ONLY
N.T.S.



TYPICAL WALL SENSOR SWITCH

NOTES:
1. REFER TO MANUFACTURERS WIRING DIAGRAM FOR EXACT WIRING DETAIL.
2. WIRE IN SERIES WITH THREE-WAY SWITCH, WHERE INDICATED ON PLANS.
3. PROVIDE 0-10V WIRING FROM WALL DIMMERS, WHERE INDICATED ON PLANS.
4. LIGHTING SHALL TIME OUT AFTER 20 MINUTES.
5. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.

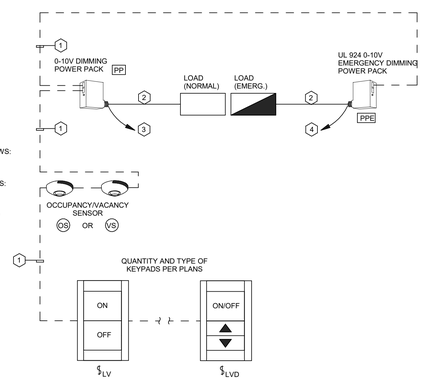
TYPICAL SPECIFICATIONS:
1. "OS" OCCUPANCY SENSOR SWITCH: (SET TO AUTO-ON, AUTO-OFF MODE)
2. "OSD" OCCUPANCY SENSOR 0-10V DIMMER: (SET TO AUTO-ON, AUTO-OFF MODE)
3. "VS" VACANCY SENSOR SWITCH (SET TO MANUAL-ON, AUTO-OFF MODE)
4. "VSD" VACANCY SENSOR 0-10V DIMMER: (SET TO MANUAL-ON, AUTO-OFF MODE)

3 TYPICAL LINE VOLTAGE SENSOR SWITCH DETAIL
NTS

SEQUENCE OF OPERATIONS:
1. ROOM OCCUPANCY SENSORS SHALL BE SET FOR AUTO ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
2. ROOM VACANCY SENSORS SHALL BE SET FOR MANUAL ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
3. MANUAL-ON/OFF VIA LOCAL "LV" AND "LVD" KEYPADS.
4. 3-BUTTON "LVD" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON/OFF": TURN ALL LIGHTS ON/OFF
   - BUTTON 2: "▲": PRESS TO RAISE ALL LIGHTS
   - BUTTON 3: "▼": PRESS TO LOWER ALL LIGHTS
5. 2-BUTTON "LV" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON": TOGGLE ALL LIGHTS ON
   - BUTTON 2: "OFF": TOGGLE ALL LIGHTS OFF
6. WHERE PHOTOCELL IS INDICATED ON PLANS, ZONE SHALL HAVE AUTOMATIC DIMMING VIA PHOTOCELL AND SHALL CAP MAXIMUM LIGHT LEVEL OF 40 FOOT-CANDLES IN THIS ZONE.

WIRING LEGEND:
1. CAT.5E
2. 2#12 + #12G (SWITCHED HOT/NEUTRAL) AND 2#18 AWG (0-10V +/-)
3. 2#12 + #12 GND. TO NORMAL POWER FEED INDICATED ON FLOOR PLANS.
4. 2#12 + #12 GND. TO EMERGENCY POWER FEED INDICATED ON FLOOR PLANS.

GENERAL NOTES:
1. BASIS OF DESIGN IS ACUITY NLIGHT.
2. PROVIDE FACTORY COMMISSIONING OF ALL SENSORS, PHOTOCELLS AND CONTROLS.
3. REFER TO FLOOR PLANS FOR EXACT LIGHTING FIXTURES ON EACH ZONE, AND QUANTITY AND LOCATION OF ALL DEVICES.
4. FINISHES AND COLORS OF ALL LIGHTING CONTROL DEVICES AND SWITCH PLATES SHALL BE SELECTED BY ARCHITECT
5. SENSORS SHALL BE PROVIDED WITH AUXILIARY RELAY OPTION FOR CONNECTION TO BMS BY DIVISION 23 CONTRACTOR.
6. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.

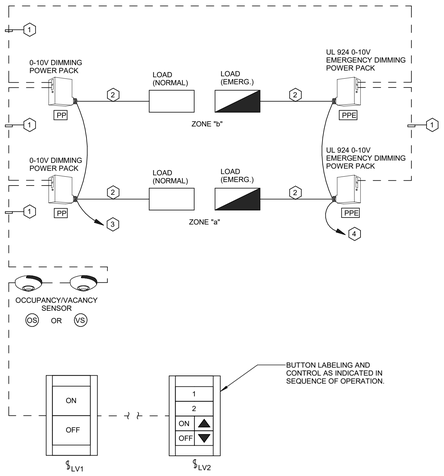


TYPICAL 1-ZONE LIGHTING CONTROL DETAIL - NORMAL AND EMERGENCY FIXTURES
N.T.S.

GENERAL NOTES:
1. BASIS OF DESIGN IS ACUITY NLIGHT.
2. PROVIDE FACTORY ENGRAVING ON ALL WALL SWITCHES AND ROOM CONTROLLER BUTTONS AS INDICATED IN THIS DETAIL.
3. PROVIDE FACTORY COMMISSIONING OF ALL SENSORS, PHOTOCELLS AND CONTROLS.
4. REFER TO FLOOR PLANS FOR EXACT LIGHTING FIXTURES ON EACH ZONE, AND QUANTITY AND LOCATION OF ALL DEVICES.
5. FINISHES AND COLORS OF ALL LIGHTING CONTROL DEVICES AND SWITCH PLATES SHALL BE SELECTED BY ARCHITECT
6. SENSORS SHALL BE PROVIDED WITH AUXILIARY RELAY OPTION FOR CONNECTION TO BMS BY DIVISION 23 CONTRACTOR.
7. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.

SEQUENCE OF OPERATIONS:
1. SUGGESTED LABELING SHOWN. SUBMIT TO OWNER FOR APPROVAL PRIOR TO ORDERING.
2. ROOM OCCUPANCY SENSORS SHALL BE SET FOR AUTO ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
3. ROOM VACANCY SENSORS SHALL BE SET FOR MANUAL ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
4. 6-BUTTON "LV2" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "AV": CONTROLS ZONE "a"
   - BUTTON 2: "GENERAL": CONTROLS ZONES "b"
   - BUTTON 3: "ON": TURN ALL LIGHTS ON
   - BUTTON 4: "OFF": TURN ALL LIGHTS OFF
   - BUTTON 5: "▲": RAISE ASSOCIATED ZONE
   - BUTTON 6: "▼": LOWER ASSOCIATED ZONE
5. 2-BUTTON "LV1" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
   - BUTTON 1: "ON": TURN ALL LIGHTS ON
   - BUTTON 2: "OFF": TURN ALL LIGHTS OFF

WIRING LEGEND:
1. CAT.5E
2. 2#12 + #12G (SWITCHED HOT/NEUTRAL) AND 2#18 AWG (0-10V +/-)
3. 2#12 + #12 GND. TO NORMAL POWER FEED INDICATED ON FLOOR PLANS.
4. 2#12 + #12 GND. TO EMERGENCY POWER FEED INDICATED ON FLOOR PLANS. PROVIDE 2#12 TO LINE SIDE OF NORMAL LIGHTING CIRCUIT FOR SENSING FEED.



TYPICAL MULTI-ZONE LIGHTING CONTROL DETAIL - NORMAL AND EMERGENCY FIXTURES
N.T.S.

GENERAL NOTES:
1. BASIS OF DESIGN IS ACUITY NLIGHT.
2. PROVIDE FACTORY ENGRAVING ON ALL WALL SWITCHES AND ROOM CONTROLLER BUTTONS AS INDICATED IN THIS DETAIL.
3. PROVIDE FACTORY COMMISSIONING OF ALL SENSORS, PHOTOCELLS AND CONTROLS.
4. REFER TO FLOOR PLANS FOR EXACT LIGHTING FIXTURES ON EACH ZONE, AND QUANTITY AND LOCATION OF ALL DEVICES.
5. FINISHES AND COLORS OF ALL LIGHTING CONTROL DEVICES AND SWITCH PLATES SHALL BE SELECTED BY ARCHITECT
6. SENSORS SHALL BE PROVIDED WITH AUXILIARY RELAY OPTION FOR CONNECTION TO BMS BY DIVISION 23 CONTRACTOR.
7. REFER TO LIGHTING CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.

SEQUENCE OF OPERATIONS:
1. SUGGESTED LABELING SHOWN. SUBMIT TO OWNER FOR APPROVAL PRIOR TO ORDERING.
2. ROOM OCCUPANCY SENSORS SHALL BE SET FOR AUTO ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
3. ROOM VACANCY SENSORS SHALL BE SET FOR MANUAL ON, AUTO OFF OPERATION. TIMEOUT AFTER 20 MINUTES.
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5. 2-BUTTON "LV1" KEYPAD(S) TO BE PROGRAMMED AS FOLLOWS:
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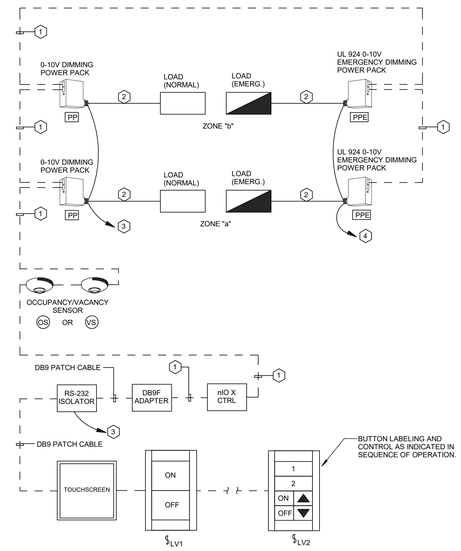
   - BUTTON 2: "OFF": TURN ALL LIGHTS OFF

WIRING LEGEND:
1. CAT.5E
2. 2#12 + #12G (SWITCHED HOT/NEUTRAL) AND 2#18 AWG (0-10V +/-)
3. 2#12 + #12 GND. TO NORMAL POWER FEED INDICATED ON FLOOR PLANS.
4. 2#12 + #12 GND. TO EMERGENCY POWER FEED INDICATED ON FLOOR PLANS. PROVIDE 2#12 TO LINE SIDE OF NORMAL LIGHTING CIRCUIT FOR SENSING FEED.



CLASSROOMS 038, 039 LIGHTING CONTROL DETAIL
N.T.S.

4 NLIGHT DETAILS
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KEYPLAN

Number	Date	Issued For

ELECTRICAL DETAILS

Date: 04/07/2022
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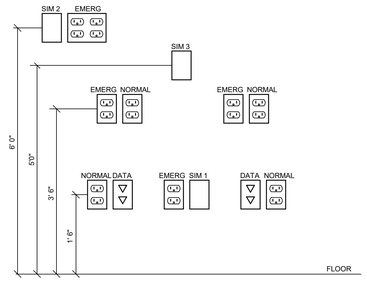


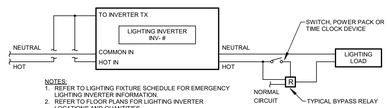
HEADWALL ELEVATION

NOTES:

1. NORMAL RECEPTACLES SHALL HAVE WHITE OUTLET AND FACEPLATE.
2. EMERG RECEPTACLES SHALL HAVE RED OUTLET AND FACE PLATE.
3. FOR SIM 1, SIM2, SIM 3 AND DATA REFER TO TECHNOLOGY SYMBOL LIST ON SHEET E000.
4. REFER TO ARCHITECTUAL PLANS FOR EXACT LOCATIONS OF DEVICES AT EACH HEADWALL.
5. WIRE ALL NORMAL RECEPTACLES TOGETHER TO CIRCUIT SHOWN ON PLANS.
6. WIRE ALL EMERG RECEPTACLES TOGETHER TO CIRCUIT SHOWN ON PLANS.

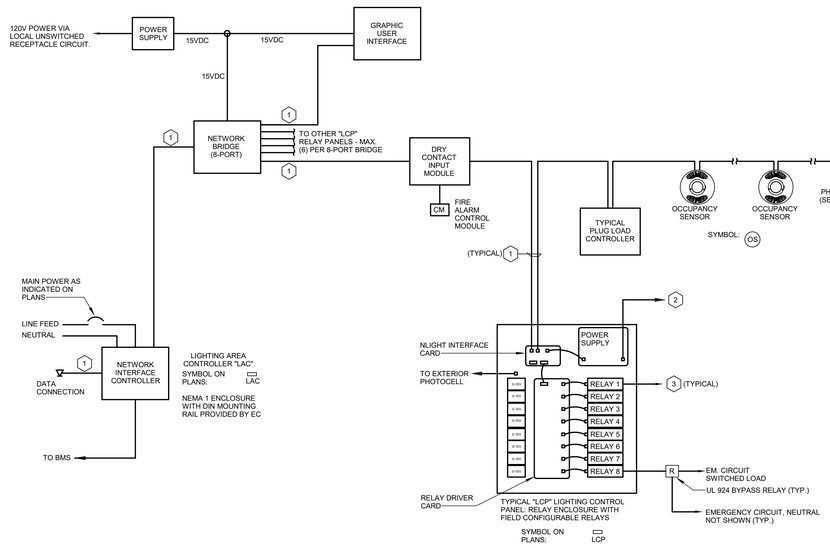
2 HEAD WALL DETAIL
NTS

INVERTER BREAKER IDENTIFIER NOTE:
SAMPLES:
INV-X(NC): WIRED TO NORMALLY CLOSED BREAKER ON DESIGNATED INVERTER
INV-X(NO): WIRED TO NORMALLY OPEN BREAKER ON DESIGNATED INVERTER



NOTES:
1. REFER TO LIGHTING FIXTURE SCHEDULE FOR EMERGENCY LIGHTING INVERTER INFORMATION.
2. REFER TO FLOOR PLANS FOR LIGHTING INVERTER LOCATIONS AND QUANTITIES

3 EMERGENCY LIGHTING INVERTER DETAIL
NTS



1 NLIGHT RELAY PANEL DETAIL
NTS

WIRING LEGEND:

1. CAT.5E
2. 2#12 + #12 GND. TO NORMAL POWER FEED INDICATED ON FLOOR PLANS.
3. LINE : 2#12 + #12G FROM NORMAL OR EMERGENCY POWER FEED INDICATED ON FLOOR PLANS
   LOAD : 2#12 + #12G (SWITCHED HOT/NEUTRAL) TO NORMAL OR EMERGENCY POWER FEED INDICATED ON FLOOR PLANS

GENERAL NOTES:

1. BASIS OF DESIGN IS NLIGHT PRODUCT BY ACUITY BRANDS. EQUAL PRODUCTS BY DOUGLAS LIGHTING CONTROLS AND HUBBELL LIGHTING CONTROLS WILL BE CONSIDERED.
2. PROVIDE FACTORY ENGRAVING ON ALL WALL SWITCHES AND ROOM CONTROLLER BUTTONS AS INDICATED IN DETAIL.
3. PROVIDE FACTORY COMMISSIONING OF ALL SENSORS, PHOTOCELLS AND CONTROLS.
4. CRIMP AND TEST EACH CABLE WITH A LAN CIRCUIT TESTER PRIOR TO INSTALLATION.
5. PROVIDE SURFACE MOUNT NEMA 1 ENCLOSURES, XX RELAY INTERIOR, HINGED LOCKING COVER AND ACCESSORIES AS INDICATED.
6. REFER TO FLOOR PLANS FOR EXACT LIGHTING FIXTURES ON EACH ZONE, QUANTITIES, AND LOCATIONS OF ALL DEVICES.
7. NETWORK BRIDGE SUPPORTS 128 DEVICES PER PORT.
8. FINISHES AND COLORS SHALL BE SELECTED BY ARCHITECT.
9. REFER TO LIGHTING CONTROL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
10. LOCATE UL 924 BYPASS RELAYS AT LIGHTING CONTROL PANEL.
11. PROVIDE OPTIONAL ADD-IN VOLTAGE BARRIERS SEPARATING NORMAL AND EMERGENCY CIRCUITS OR CIRCUITS OR DIFFERENT VOLTAGES.

SEQUENCE OF OPERATIONS :

1. ALL RELAYS TO BE CONTROLLED VIA TIME-SCHEDULE FROM BUILDING MANAGEMENT SYSTEM (BMS) [OR SYSTEM TIME SCHEDULES] AND FROM OCCUPANCY SENSORS.
2. LOW VOLTAGE OVERRIDE SWITCHES AS SHOWN ON FLOOR PLANS.
3. REFER TO SCHEDULES ON THIS DETAIL FOR QUANTITY AND SIZE OF RELAYS IN EACH LIGHTING CONTROL PANEL (LCP). REFER TO PLANS FOR LOCATIONS OF LCP'S.
4. HOURS OF OPERATION FOR TIME-SCHEDULE TO BE DECIDED BY OWNER PRIOR TO LIGHTING CONTROL STARTUP. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE TIME SCHEDULING.
5. RELAYS THAT CONTROL INTERIOR LIGHTING SHALL TURN ON (1) HOUR PRIOR TO BUILDING OCCUPANCY TO PROVIDE ARTIFICIAL LIGHT FOR SELF-LUMINOUS EGRESS PATH LIGHTING (BY OTHERS)
6. DURING OCCUPIED HOURS:
   - ALL RELAYS THAT CONTROL INTERIOR LIGHTING SHALL BE PROGRAMMED TO FULL BRIGHT, UNLESS OVERRIDEN BY SWITCHES.
   - ALL RELAYS THAT CONTROL SITE LIGHTING SHALL TURN ON/OFF IN ACCORDANCE WITH TIME-SCHEDULE OR WITH PHOTOCELL. COORDINATE OPERATION WITH OWNER.
7. DURING UNOCCUPIED HOURS:
   - ALL RELAYS THAT CONTROL INTERIOR LIGHTING SHALL OPERATE IN ACCORDANCE WITH OCCUPANCY SENSORS, UNLESS OVERRIDEN BY SWITCHES.
   - ALL RELAYS THAT CONTROL SITE LIGHTING SHALL TURN ON/OFF IN ACCORDANCE WITH TIME-SCHEDULE OR WITH PHOTOCELL. COORDINATE OPERATION WITH OWNER.

GENERAL NOTES:

1. BASED ON NLIGHT PRODUCT BY ACUITY BRANDS. EQUAL PRODUCTS BY DOUGLAS LIGHTING CONTROLS AND HUBBELL LIGHTING CONTROLS WILL BE CONSIDERED.
2. REFER TO LIGHTING CONTROL RELAY PANEL SCHEDULES ON SHEET EXXX FOR RELAY CONTROL DESCRIPTION.
3. CRIMP AND TEST EACH CABLE WITH A LAN CIRCUIT TESTER PRIOR TO INSTALLATION.
4. PROVIDE SURFACE MOUNT NEMA 1 ENCLOSURES, XX RELAY INTERIOR, HINGED LOCKING COVER AND ACCESSORIES AS INDICATED.
5. NETWORK BRIDGE SUPPORTS 128 DEVICES PER PORT.
6. LOCATE UL 924 BYPASS RELAYS AT LIGHTING CONTROL PANEL.

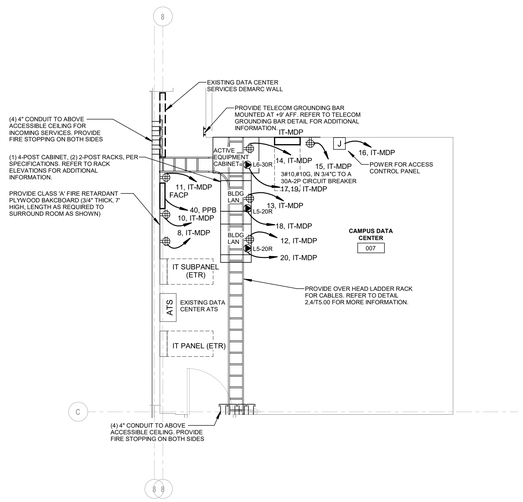
SEQUENCE OF OPERATION: [WITHOUT OCCUPANCY SENSORS]

1. ALL RELAYS TO BE CONTROLLED VIA TIME SCHEDULES FROM THE BUILDING MANAGEMENT SYSTEM (BMS) [OR SYSTEM TIME SCHEDULES].
2. LOW VOLTAGE OVERRIDE SWITCHES AS SHOWN ON FLOOR PLANS.
3. REFER TO SCHEDULES ON THIS DETAIL FOR QUANTITY AND SIZE RELAYS FOR EACH LIGHTING CONTROL PANEL (LCPX). REFER TO PLANS FOR LOCATIONS OF LCP'S.
4. COORDINATE PROGRAMMING OF ALL GROUPS/CHANNELS/ZONES WITH THE OWNER INCLUDING BLINK WARNINGS AND TIME SCHEDULES.
5. RELAYS THAT CONTROL INTERIOR CORRIDOR AND OPEN SPACE LIGHTING SHALL BE CONFIGURED TO PROVIDE:
   a. 50% NORMAL LIGHTING (FIRST HALF)
   b. 50% NORMAL LIGHTING (SECOND HALF)
   c. EMERGENCY LIGHTING.
6. TIME SCHEDULES TO OPERATE AS FOLLOWS:
   a. 50% NORMAL CORRIDOR LIGHTING (FIRST HALF) TO TURN ON ONE HOUR PRIOR TO BUILDING OCCUPANCY TO PROVIDE ARTIFICIAL LIGHT TO CHARGE PHOTOLUMINESCENCT EGRESS PATH LIGHTING (INTEGRAL TO BASE MOULDING). OFF VIA TIME SCHEDULE.
   b. 50% NORMAL LIGHTING (SECOND HALF) AND EMERGENCY LIGHTING TO TURN ON/OFF VIA TIMES SCHEDULE.
   c. FIVE MINUTES PRIOR TO EXPIRATION (PROGRAM OFF) OF A TIME SCHEDULE, PROVIDE A BLINK WARNING.
   d. OVERRIDE SWITCH BUTTONS SHALL EXTEND TIMER FOR TWO HOURS FOLLOWING BLINK WARNING.
   e. PROGRAM SYSTEM TO SWEEP ALL LIGHTS "OFF"WITH BLINK WARNING EVERY TWO HOURS AFTER A PROGRAM "OFF" EVENT UNTIL NEXT SCHEDULED TIMED "ON" EVENT.

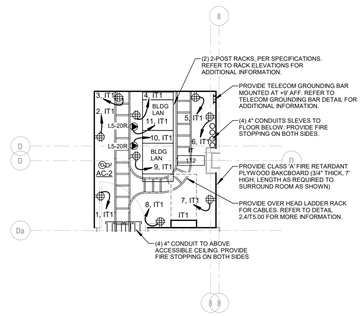
LIGHTING CONTROL PANEL ZONING SCHEDULE

ZONE	AREA CONTROLLED	CIRCUIT	RELAY TYPE
Z1	BASEMENT LEVEL - EAST	SHOWN ON PLANS	NORMAL & EMERGENCY
Z2	FIRST LEVEL - EAST	SHOWN ON PLANS	NORMAL & EMERGENCY
Z3	FIRST LEVEL - WEST	SHOWN ON PLANS	NORMAL & EMERGENCY
Z4	SECOND LEVEL - EAST	SHOWN ON PLANS	NORMAL & EMERGENCY
Z5	SECOND LEVEL - WEST	SHOWN ON PLANS	NORMAL & EMERGENCY
Z6	BUILDING EXTERIOR - NORTH	SHOWN ON PLANS	NORMAL & EMERGENCY
Z7	BUILDING EXTERIOR - EAST	SHOWN ON PLANS	NORMAL & EMERGENCY
Z8	BUILDING EXTERIOR - SOUTH	SHOWN ON PLANS	NORMAL & EMERGENCY

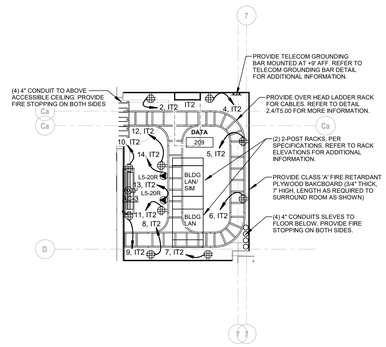
RELAY PANEL SCHEDULE		
PANEL	RELAY CAPACITY	QTY. OF 20A/1P RELAYS
LCP	16	12



6 ELECTRICAL POWER PART PLAN - MDF 007
1/4" = 1'-0"



5 ELECTRICAL POWER PART PLAN - IDF 112
1/4" = 1'-0"



4 ELECTRICAL POWER PART PLAN - IDF 209
1/4" = 1'-0"

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KEYPLAN

Number	Date	Issued For

ELECTRICAL DETAILS

Date: 04/07/2022
Scale: As indicated
Proj. Number: 20287.10
Drawing Number: E503

MOTOR / EQUIPMENT CIRCUIT SCHEDULE

EQUIPMENT	OCPD	PANEL	LOAD					LOCAL DISC. SW	MOTOR STARTER			WIRING	REMARKS
			HP	MCA	KW	PH	VOLT		SIZE	TYPE	LOCATION		
VRF-A	20A-2P	REFER TO PLANS	-	1.75	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
VRF-B	20A-2P	REFER TO PLANS	-	1.75	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
VRF-C	20A-2P	REFER TO PLANS	-	2.13	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
VRF-D	20A-2P	REFER TO PLANS	-	2.94	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
VRF-E	20A-2P	REFER TO PLANS	-	2.88	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
VRF-F	20A-2P	REFER TO PLANS	-	2.88	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
VRF-G	20A-2P	REFER TO PLANS	-	4.25	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
VRF-H	20A-2P	REFER TO PLANS	-	4.38	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
VRF-I	20A-2P	REFER TO PLANS	-	0.24	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
VRF-J	20A-2P	REFER TO PLANS	-	0.28	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
VRF-K	20A-2P	REFER TO PLANS	-	0.29	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
VRF-L	20A-2P	REFER TO PLANS	-	0.25	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
VRF-M	20A-2P	REFER TO PLANS	-	0.26	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
AC-1 / ACU-1	20A-2P	IT-MDP	-	11	-	1	208	30A/2P	-	-	-	2#10, #10G, 3/4"C	ACU-1 SERVES AC-1
AC-2, AC-3 /ACU-2	30A-2P	IT-2	-	17	-	1	208	30A/2P	-	-	-	2#10, #10G, 3/4"C	ACU-2 SERVES AC-2 & AC-3
DOAS-1	125A-3P	MP2	-	110.7	-	3	208	VFD	-	-	-	3#1, #6G, 1 1/2"C	
DOAS-2	110A-3P	MP2	-	100.4	-	3	208	VFD	-	-	-	3#2, #6G, 1 1/2"C	
CU-1 MODULE 1	70A-3P	MP2	-	47	-	3	208	90A/3P	-	-	-	3#4, #8G, 1 1/4"C	
CU-1 MODULE 2	70A-3P	MP2	-	47	-	3	208	90A/3P	-	-	-	3#4, #8G, 1 1/4"C	
CU-2 MODULE 1	70A-3P	MP2	-	47	-	3	208	90A/3P	-	-	-	3#4, #8G, 1 1/4"C	
CU-2 MODULE 2	70A-3P	MP2	-	47	-	3	208	90A/3P	-	-	-	3#4, #8G, 1 1/4"C	
CU-3 MODULE 1	70A-3P	MP2	-	47	-	3	208	90A/3P	-	-	-	3#4, #8G, 1 1/4"C	
CU-3 MODULE 2	70A-3P	MP2	-	47	-	3	208	90A/3P	-	-	-	3#4, #8G, 1 1/4"C	
CU-4 MODULE 1	60A-3P	MP2	-	38	-	3	208	60A/3P	-	-	-	3#6, #8G, 1"C	
CU-4 MODULE 2	60A-3P	MP2	-	38	-	3	208	60A/3P	-	-	-	3#6, #8G, 1"C	
BC-1	20A-2P	REFER TO PLANS	-	0.83	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
BC-2	20A-2P	REFER TO PLANS	-	1.57	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
BC-3-1	20A-2P	REFER TO PLANS	-	1.57	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
BC-3-2	20A-2P	REFER TO PLANS	-	0.74	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
BC-4	20A-2P	REFER TO PLANS	-	0.83	-	1	208	30A/2P	-	-	-	2#12, #12G, 3/4"C	
CUH-A	20A-1P	REFER TO PLANS	1/25	-	-	1	120	DIV. 23	-	-	-	2#12, #12G, 3/4"C	
CUH-B	20A-1P	REFER TO PLANS	1/25	-	-	1	120	DIV. 23	-	-	-	2#12, #12G, 3/4"C	
CA-1	35A-3P	MPB	5	-	-	3	208	60A/3P	-	-	-	3#10, #10G, 3/4"C	
VAC-1	20A-3P	MPB	2	-	-	3	208	30A/3P	-	-	-	3#12, #12G, 3/4"C	
WH-1	20A-1P	MPB	-	15	-	1	120	MAN	-	-	-	2#12, #12G, 3/4"C	
WH-2	20A-1P	MPB	-	15	-	1	120	MAN	-	-	-	2#12, #12G, 3/4"C	
HWRP-1	20A-1P	MPB	1/8	1.40	-	1	120	MAN	-	-	-	2#12, #12G, 3/4"C	
EXISTING SUMP PUMP 1	15A-3P	MPB	-	-	-	3	208	EXISTING	-	-	-	3#12, #12G, 3/4"C	
EXISTING SUMP PUMP 2	15A-3P	MPB	-	-	-	3	208	EXISTING	-	-	-	3#12, #12G, 3/4"C	
P-3 (EXISTING)	20A-3P	MPB	-	-	-	3	208	EXISTING	-	-	-	3#12, #12G, 3/4"C	
P-4 (EXISTING)	20A-3P	MPB	-	-	-	3	208	EXISTING	-	-	-	3#12, #12G, 3/4"C	
BP-1 (EXISTING)	15A-3P	MPB	-	-	-	3	208	EXISTING	-	-	-	3#12, #12G, 3/4"C	
BP-2 (EXISTING)	15A-3P	MPB	-	-	-	3	208	EXISTING	-	-	-	3#12, #12G, 3/4"C	
ELEVATOR (EXISTING)	125-3P	MSB	-	-	-	3	208	EXISTING	-	-	-	3#1, #6G, 1 1/2"C	

GENERAL NOTES:
1. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE AND SHALL BE LOCATED AT EQUIPMENT LOCATION UNLESS OTHERWISE NOTED.
2. ABBREVIATIONS:
   - MAN: MANUAL STARTER (TOGGLE SWITCH WITH THERMAL OVERLOADS)
   - FVNR: COMBINATION FULL VOLTAGE NON-REVERSING STARTER/ DISCONNECT SWITCH
   - VFD: VARIABLE FREQUENCY DRIVE. FURNISHED BY DIV. 23, WIRED BY DIV. 26. PROVIDE POWER WIRING FROM SOURCE PANELBOARD TO VFD AND FROM VFD TO MOTOR(S). COORDINATE EXACT LOCATION IN FIELD WITH DIV.23.
   - DIV.21: EQUIPMENT FURNISHED BY DIVISION 21 FIRE PROTECTION CONTRACTOR
   - DIV.22: EQUIPMENT FURNISHED BY DIVISION 22 PLUMBING CONTRACTOR
   - DIV.23: EQUIPMENT FURNISHED BY DIVISION 23 HVAC CONTRACTOR
   - SPC: SINGLE POINT CONNECTION (STARTERS INTEGRAL TO EQUIPMENT). COORDINATE EXACT POINT OF CONNECTION IN FIELD.
3. OVERCURRENT PROTECTION DEVICES (OCPD) SHALL BE MOLDED CASE CIRCUIT BREAKERS UNLESS NOTED WITH AN "F" FOR FUSE.
4. DISCONNECT SWITCHES AND STARTERS SHALL BE NEMA 3R RATED WHEN LOCATED OUTSIDE.
5. REFER TO PANEL SCHEDULES FOR SOURCE PANEL/ CIRCUIT INFORMATION.
6. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR EXACT LOCATIONS OF EQUIPMENT.
7. STARTERS SHALL BE SQUARE D CLASS 8536 OR APPROVED EQUAL.

FLOOR BOX SCHEDULE

SYMBOL	DESCRIPTION	CONDUIT/ FLOOR BOX	CABLING	NOTES
FB A	FLOOR BOX WITH POWER	LEGRAND #RFB2E-OG OR EQUAL WITH (1) 3/4"C FOR POWER TRENCHED TO NEAREST ACCESSIBLE WALL AND ABOVE CEILING.	POWER ONLY	PROVIDE WITH (2) INTEGRAL DUPLEX RECEPTACLES. PROVIDE WITH SURFACE STYLE ROUND COVER ASSEMBLY.
FB B (X,Y)	FLOOR BOX WITH POWER, DATA	LEGRAND #RFB4E-OG OR EQUAL WITH (1) 3/4"C FOR POWER AND (1) 1-1/4"C FOR DATA TRENCHED TO NEAREST ACCESSIBLE WALL AND ABOVE CEILING.	(X) CAT.6 CABLES TO DATA PATCH PANEL (Y) CAT.6 CABLES TO VOIP PATCH PANEL IF NOT TAGGED, PROVIDE (1) OF EACH.	PROVIDE WITH (2) INTEGRAL DUPLEX RECEPTACLES. PROVIDE WITH SURFACE STYLE ROUND COVER ASSEMBLY.
FB C (X,Y)	FLOOR BOX WITH POWER, DATA, AV	LEGRAND #EFB6-OG OR EQUAL WITH (1) 3/4"C FOR POWER AND (1) 1-1/4"C FOR DATA TRENCHED TO NEAREST ACCESSIBLE WALL AND ABOVE CEILING. PROVIDE ADDITIONAL 1-1/4"C TO LOCAL AV DISPLAY BOX IN ROOM.	(X) CAT.6 CABLES TO DATA PATCH PANEL (Y) CAT.6 CABLES TO VOIP PATCH PANEL REFER TO AV DETAILS FOR CABLING	PROVIDE WITH (2) INTEGRAL DUPLEX RECEPTACLES. PROVIDE WITH SURFACE STYLE ROUND COVER ASSEMBLY.
FB FF (X,Y)	FLOOR BOX WITH POWER AND DATA FURNITURE FEED	LEGRAND #EFBFF-OG OR EQUAL WITH (1) 1-1/4"C FOR POWER AND (1) 1-1/4"C FOR DATA TRENCHED TO NEAREST ACCESSIBLE WALL AND ABOVE CEILING. NUMBER OF CIRCUIT TO FURNITURE EQUAL TO NUMBER OF HOMERUNS SHOWN ON PLANS.	(X) CAT.6 CABLES TO DATA PATCH PANEL (Y) CAT.6 CABLES TO VOIP PATCH PANEL	PROVIDE WITH FLEXIBLE WHIP CONNECTIONS TO MODULAR FURNITURE. MINIMUM 1-1/4". LOCATE BOX IN KNEE SPACE UNDER FURNITURE. COORDINATE EXACT LOCATION IN FIELD WITH FURNITURE INSTALLER PRIOR TO INSTALLATION.
PT A	POKE THROUGH WITH POWER	LEGRAND #4AT OR EQUAL WITH (1) 3/4"C FOR POWER TO ABOVE-CEILING SPACE BELOW.	POWER ONLY	PROVIDE WITH (2) INTEGRAL DUPLEX RECEPTACLES. PROVIDE WITH FLUSH STYLE COVER ASSEMBLY.
PT B (X,Y)	POKE THROUGH WITH POWER, DATA	LEGRAND #6AT OR EQUAL WITH (1) 3/4"C FOR POWER AND (1) 1-1/4"C FOR DATA TO ABOVE-CEILING SPACE BELOW.	(X) CAT.6 CABLES TO DATA PATCH PANEL (Y) CAT.6 CABLES TO VOIP PATCH PANEL IF NOT TAGGED, PROVIDE (1) OF EACH.	PROVIDE WITH (2) INTEGRAL DUPLEX RECEPTACLES. PROVIDE WITH FLUSH STYLE COVER ASSEMBLY.
PT C (X,Y)	POKE THROUGH WITH POWER, DATA, AV	LEGRAND #6AT OR EQUAL WITH (1) 3/4"C FOR POWER AND (1) 1-1/4"C FOR DATA TO ABOVE-CEILING SPACE BELOW. PROVIDE ADDITIONAL 1-1/4"C. TO LOCAL AV DISPLAY BOX IN ROOM.	(X) CAT.6 CABLES TO DATA PATCH PANEL (Y) CAT.6 CABLES TO VOIP PATCH PANEL REFER TO AV DETAILS FOR CABLING	PROVIDE WITH (2) INTEGRAL DUPLEX RECEPTACLES. PROVIDE WITH FLUSH STYLE COVER ASSEMBLY.
PT FF (X,Y)	POKE-THROUGH WITH POWER AND DATA FURNITURE FEED	LEGRAND #6ATFF OR EQUAL WITH (1) 1-1/4"C FOR POWER AND (1) 1-1/4"C FOR DATA TO ABOVE-CEILING SPACE BELOW. - NUMBER OF CIRCUITS TO FURNITURE EQUAL TO NUMBER OF HOMERUNS SHOWN.	(X) CAT.6 CABLES TO DATA PATCH PANEL (Y) CAT.6 CABLES TO VOIP PATCH PANEL	PROVIDE WITH FLEXIBLE WHIP CONNECTIONS TO MODULAR FURNITURE, MINIMUM 1-1/4". LOCATE BOX IN KNEE SPACE UNDER FURNITURE. COORDINATE EXACT LOCATION IN FIELD WITH FURNITURE INSTALLER PRIOR TO INSTALLATION.

GENERAL NOTES:
1. ALL CONDUITS FOR FLOOR BOXES SHALL BE TRENCHED TO THE NEAREST WALL AND SHALL STUB ABOVE ACCESSIBLE CEILING, OR IN A LOCATION INDICATED ON PLANS.
2. ALL POKE-THROUGH DEVICES SHALL BE PROVIDED WITH SEPARATE CONDUIT SLEEVES TO FLOOR BELOW FOR POWER, DATA AND AV CABLING. PROVIDE ALL NECESSARY FIRESTOPPING OF CONDUIT SLEEVES TO MATCH FIRE RATING OF FLOOR.
3. PROVIDE INTERNAL BARRIER KITS TO SEPARATE POWER, DATA AND AV COMPARTMENTS IN ALL FLOOR BOXES AND POKE-THROUGH DEVICES.
4. ALL FINISHES, COLORS AND COVER MATERIALS SHALL BE SELECTED BY ARCHITECT.
5. PROVIDE MOUNTING BRACKETS AS RECOMMENDED BY MANUFACTURER FOR ALL DEVICES MOUNTED IN FLOOR BOXES AND POKE-THROUGH DEVICES.
6. DATA CABLING SHALL BE ROUTED TO PATCH PANELS IN I.T. ROOMS INDICATED ON FLOOR PLANS. TERMINATE CABLING AT SPECIFIC PATCH PANELS INDICATED IN I.T. RACK ELEVATIONS.
7. CONTRACTOR SHALL LABEL EACH DEVICE TERMINATION POINT AND CORRESPONDING PATCH PANEL PORT WITH THE SAME, UNIQUE LABEL. REFER TO SPECIFICATIONS FOR MORE INFORMATION. ALL LABELS SHALL BE FINALIZED WITH AND APPROVED BY OWNER'S I.T. STAFF PRIOR TO INSTALLATION.
8. PROVIDE ALL NECESSARY CONNECTORS, ADAPTERS, KEYSTONES, ATTACHMENTS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
9. TERMINATE ALL STRUCTURED CABLING CABLES IN RJ45 CONNECTORS UNLESS OTHERWISE NOTED.

LIGHTING FIXTURE SCHEDULE

TYPE	BASIS OF DESIGN MANUFACTURER / MODEL	VOLTAGE	SOURCE	FIXTURE DESCRIPTION - BASIS OF DESIGN
AX	EXTANT HTG-3R-LP-TD-L9-X-DML-MEOGC-935-VUD-EMC4	UNV	5 W/ft 525 LM/ft 3500K 90+ CRI	RECESSED LED LINEAR FIXTURE: 1% 0-10V DIMMING; 3" APERTURE; EXTRUDED ALUMINUM HOUSING; GLARE CONTROL OPTICS. **X =** LENGTH IN FEET AS INDICATED ON FLOOR PLANS.
AAX	EXTANT HTG-3R-LP-TD-L9-X-DHL-MEOGC-935-VUD	UNV	9.5 W/ft 1075 LM/ft 3500K 90+ CRI	RECESSED LED LINEAR FIXTURE: 1% 0-10V DIMMING; 3" APERTURE; EXTRUDED ALUMINUM HOUSING; GLARE CONTROL OPTICS. SIMILAR TO "AX" BUT DIFFERENT LUMEN OUTPUT. **X =** LENGTH IN FEET AS INDICATED ON FLOOR PLANS.
C4	LITHONIA 2BLT4-40LHE-ADSM-EZ1-LP935	UNV	30 W 3065 LM 3500K 90+ CRI	2' X 4' RECESSED LED FIXTURE: 0-10V DIMMING; EXTRUDED ACRYLIC DIFFUSER; L80 MAINTENANCE AT 60,000 HOURS.
C4E	LITHONIA 2BLT4-40LHE-ADSM-EZ1-LP935-EL14L	UNV	30 W 3065 LM 3500K 90+ CRI	2' X 4' RECESSED LED FIXTURE: 0-10V DIMMING; EXTRUDED ACRYLIC DIFFUSER; L80 MAINTENANCE AT 60,000 HOURS, 1400 LUMEN INTEGRAL BATTERY PACK.
D4	GOTHAM EVO4SQ-35/15-ARWR-LSS-MVOLT-GZ10-90CRI	UNV	13.7 W 1527 LM 3500K 85+ CRI	4" SQUARE RECESSED LED DOWNLIGHT: 0-10V DIMMING; 45 DEGREE CUTOFF; GALVANIZED STEEL HOUSING; ADJUSTABLE APERTURE; WET LOCATION LISTED.
D6	GOTHAM EVO6SQ-35/20-ARWR-LSS-MVOLT-GZ10-90CRI	UNV	19.7 W 2153 LM 3500K 85+ CRI	6" SQUARE RECESSED LED DOWNLIGHT: 0-10V DIMMING; 45 DEGREE CUTOFF; GALVANIZED STEEL HOUSING; ADJUSTABLE APERTURE; WET LOCATION LISTED.
D6A	GOTHAM EVO6SQ-35/30-ARWR-LSS-MVOLT-GZ10-90CRI	UNV	29.5 W 3302 LM 3500K 85+ CRI	6" SQUARE RECESSED LED DOWNLIGHT: 0-10V DIMMING; 45 DEGREE CUTOFF; GALVANIZED STEEL HOUSING; ADJUSTABLE APERTURE; WET LOCATION LISTED. SIMILAR TO "D6" BUT DIFFERENT LUMEN OUTPUT.
J	LITHONIA CSS-L48-ALO3-MVOLT-35K-80CRI	UNV	27.7 W 3190 LM 3500K 80+ CRI	4' SURFACE MOUNTED LED LINEAR STRIP LIGHT: CODE GAUGE STEEL HOUSING; WHITE FINISH; DAMP LOCATION LISTED. PROVIDE WITH 36" HANGER CHAIN ACCESSORY HC36-M12.
JS	LITHONIA CSS-L48-ALO3-MVOLT-35K-80CRI	UNV	27.7 W 3190 LM 3500K 80+ CRI	4' SURFACE MOUNTED LED LINEAR STRIP LIGHT: CODE GAUGE STEEL HOUSING; WHITE FINISH; DAMP LOCATION LISTED.
J1	LUMENWERX QUAWS-HLO-SW-90-750-35-4'UNV-D1-1-DRC-W	UNV	35.4 W 4800 LM 3500K 90+ CRI	4' SURFACE MOUNTED LED LINEAR WRAPAROUND: 1% 0-10V DIMMING; EXTRUDED ALUMINUM HOUSING; HIGH EFFICIENCY LAMBERTIAN OPTIC.
M20	BROWNLEE 2608-24-FINISH-C37-SURFACE/MOD-35K	UNV	35 W 4128 LM 3500K 80+ CRI	24" ROUND SURFACE MOUNTED LED DOWNLIGHT: 0-10V DIMMING; STEEL HOUSING WITH FABRIC WALL. **FINISH =** FINISH COLOR TO BE CONFIRMED WITH THE ARCHITECT.
PX	LUMENWERX VIA3-DI-HLO-0.5D-HLO-SW-90-1000-1000-35-X-UNV-D1-1C-ACC(60IN)-FINISH	UNV	8.7 / 8.7 W/ft 750 / 750 LM/ft 3500K 90+ CRI	PENDANT MOUNTED DIRECT/INDIRECT LED LINEAR FIXTURE: 1% 0-10V DIMMING; EXTRUDED ALUMINUM HOUSING; HLO DIRECT DISTRIBUTION; WIDESPREAD INDIRECT OPTIC DISTRIBUTION. **X =** LENGTH IN FEET AS INDICATED ON FLOOR PLANS. **FINISH =** FINISH COLOR TO BE CONFIRMED WITH THE ARCHITECT. **CORD =** POWER CORD COLOR TO BE CONFIRMED WITH THE ARCHITECT. **LUMEN PACKAGE FORMAT:** "DIRECT" / "INDIRECT"
PA20	LUMENWERX VIA3-DI-HLO-0.5D-HLO-SW-90-750-750-35-X-UNV-D1-1C-ACC(60IN)-FINISH	UNV	6.3 / 6.3 W/ft 750 / 750 LM/ft 3500K 90+ CRI	20' PENDANT MOUNTED DIRECT/INDIRECT LED LINEAR FIXTURE: 1% 0-10V DIMMING; EXTRUDED ALUMINUM HOUSING; HLO DIRECT DISTRIBUTION; WIDESPREAD INDIRECT OPTIC DISTRIBUTION. **X =** LENGTH IN FEET AS INDICATED ON FLOOR PLANS. **FINISH =** FINISH COLOR TO BE CONFIRMED WITH THE ARCHITECT. **CORD =** POWER CORD COLOR TO BE CONFIRMED WITH THE ARCHITECT. **LUMEN PACKAGE FORMAT:** "DIRECT" / "INDIRECT"
P8A	ECOSENSE TR3-CSD-8'-35K-80CRI-UNV-WD-FINISH-44-MF-CORD-4-90	UNV	48 W 5760 LM 3500K 90+ CRI	8' PENDANT MOUNTED LED LINEAR: 0-10V DIMMING; EXTRUDED ALUMINUM HOUSING; CURVED AND FROSTED LENS. **FINISH =** HOUSING FINISH COLOR AND HARDWARE DETAIL FINISH TO BE CONFIRMED WITH THE ARCHITECT. **CORD =** POWER CORD COLOR TO BE CONFIRMED WITH THE ARCHITECT.
P8S	LUMENWERX VIA3PPAT-DI-HLO-0.5D-WIO2-SW-90-350-350-35-8FT-LEV-(90)4-UNV-D1-1C-ACC(60IN)-FINISH	UNV	3 / 3 W/ft 350 / 350 LM/ft 3500K 90+ CRI	6' PENDANT MOUNTED DIRECT/INDIRECT LED LINEAR FIXTURE: 1% 0-10V DIMMING; EXTRUDED ALUMINUM HOUSING; HLO DIRECT DISTRIBUTION; WIDESPREAD INDIRECT OPTIC DISTRIBUTION. SQUARE CONFIGURATION. **FINISH =** FINISH COLOR TO BE CONFIRMED WITH THE ARCHITECT. **CORD =** POWER CORD COLOR TO BE CONFIRMED WITH THE ARCHITECT. **LUMEN PACKAGE FORMAT:** "DIRECT" / "INDIRECT"
S	LITHONIA CLX-L48-3000LM-SEF-WDL-MVOLT-GZ10-35K-80CRI-WH	UNV	20 W 3104 LM 3500K 80+ CRI	4' WALL MOUNTED LINEAR LED LIGHT FIXTURE: CODE-GAUGE STEEL HOUSING, ACRYLIC LENS, DAMP LOCATION LISTED, WHITE FINISH, WIDE DISTRIBUTION.
W1	A LIGHT D5-16-LS-35-90CRI-U-KS-G-FINISH-D-Q	UNV	4.5 W/ft 408 LM/ft 3500K 90+ CRI	16' EXTERIOR WALL WASH: 0-10V DIMMING; EXTRUDED ALUMINUM HOUSING; WET LOCATION LISTED. **FINISH =** FINISH COLOR TO BE CONFIRMED WITH THE ARCHITECT.
W2	LITHONIA WDGE1-LED-P2-30K-80CRI-VF-MVOLT-DS-FINISH	UNV	15 W 1872 LM 3000K 80+ CRI	WALL MOUNTED EXTERIOR LED ARCHITECTURAL SCONCE: DIE CAST ALUMINUM HOUSING, GASKETED, SUITABLE FOR WET LOCATIONS. **FINISH =** FINISH COLOR TO BE CONFIRMED WITH THE ARCHITECT.
W3	LUMINAIRE BLD-24IN-NODIM-2DRV-20W-30K-MVOLT-DP-FINISH	UNV	21.3 W 1907 LM 3000K 80+ CRI	2' WALL MOUNTED LINEAR LED MULLION FIXTURE: EXTRUDED ALUMINUM HOUSING, OPAL POLYCARBONATE LENS, GASKETED, SUITABLE FOR WET LOCATIONS, FULL CUT OFF OPTICS. **FINISH =** FINISH COLOR TO BE CONFIRMED WITH THE ARCHITECT.
W4	ISOLITE LPDCCG-AC-R-WH-1-WH-WH-MB-CW(ROOM IN USE)	UNV	LED 1.5 W	WALL MOUNTED LED CUSTOM SIGNAGE: "ROOM IN USE", RED LETTERING, WHITE BACKGROUND, SINGLE FACE.
X1	ISOLITE EUG-EM-G-1C-MTEB	UNV	LED 2 W	UNIVERSAL MOUNT SINGLE FACE EXIT SIGN: GREEN LETTERING; BATTERY BACKUP; CLEAR BACKGROUND.
X2	ISOLITE EUG-EM-G-2M-MTEB	UNV	LED 2 W	UNIVERSAL MOUNT DOUBLE FACE EXIT SIGN: GREEN LETTERING; BATTERY BACKUP; MIRROR BACKGROUND.
INV-1	ISOLITE E3MAC-1600-1P-IC-OA-6C-6O-EEW	UNV	1600 VA CAPACITY	EMERGENCY LIGHTING INVERTER: PROGRAMMABLE TRANSFER TIME, 90 MINUTE RUN TIME, SINGLE PHASE OUTPUT, 6 NORMALLY OPEN CIRCUIT BREAKERS, 6 NORMALLY CLOSED CIRCUIT BREAKERS.
INV-2	ISOLITE E3MAC-4000-1P-IC-OA-6C-6O-EEW	UNV	4000 VA CAPACITY	EMERGENCY LIGHTING INVERTER: PROGRAMMABLE TRANSFER TIME, 90 MINUTE RUN TIME, SINGLE PHASE OUTPUT, 6 NORMALLY OPEN CIRCUIT BREAKERS, 6 NORMALLY CLOSED CIRCUIT BREAKERS.

NOTES:
1. LIGHT FIXTURES IN THE SCHEDULE SHALL BE CONSIDERED BASIS OF DESIGN. EQUAL FIXTURE SUBSTITUTIONS ARE ACCEPTABLE FOR ALL FIXTURES IN THE LIGHTING FIXTURE SCHEDULE, UNLESS INDICATED OTHERWISE. EQUAL FIXTURE APPROVAL SHALL BE AS JUDGED BY THE ENGINEER AND THE ARCHITECT. IN ADDITION TO THE REQUIREMENTS LISTED IN THE LIGHTING FIXTURE SCHEDULE AND IN THE SPECIFICATIONS, THE PROPOSED EQUAL FIXTURES SHALL:
   A. BE THE SAME GENERAL SIZE, STYLE AND SHAPE, INCLUDING BUT NOT LIMITED TO LENS CONSTRUCTION AND SHADING.
   B. BE OF EQUAL QUALITY CONSTRUCTION AND FINISH.
   C. BE SUPPLIED WITH ALL REQUIRED ACCESSORIES TO MATCH THE SPECIFIED (BASIS OF DESIGN) FIXTURE.
   D. PROVIDE THE SAME DISTRIBUTION, EFFICACY AND SOURCE LUMEN OUTPUT.
   E. HAVE THE SAME LISTINGS AS THE BASIS OF DESIGN FIXTURE, INCLUDING DLC AND ENERGY STAR QUALIFICATIONS.
2. ALL FIXTURES SHALL BE UL LISTED.
3. ALL NECESSARY MOUNTING HARDWARE, HANGERS, BRACKETS, RAILS, YOKES, CANOPIES, STEMS, CHAINS, ROW JOINERS, ETC. SHALL BE FURNISHED AND INSTALLED.
4. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS, ARRANGEMENT, MOUNTING HEIGHTS, SUSPENSION LENGTHS, CEILING CONSTRUCTION, ETC. ALL COLORS AND FINISHES SHALL BE SELECTED BY ARCHITECT.
5. FIXTURES SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY THE APPLICABLE BUILDING CODE. FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL BE INDEPENDENT OF DUCTS, PIPES, CEILINGS AND THEIR SUPPORTING MEMBERS. FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF 2 SUPPORTS.
6. WIRE EMERGENCY FIXTURES AND EXIT SIGNS AHEAD OF SWITCHED LEGS.
7. MINIMUM MOUNTING HEIGHT OF FIXTURES IN MECHANICAL AND ELECTRICAL SPACES IS 8'-6" AFF. COORDINATE MOUNTING HEIGHT IN FIELD WITH EQUIPMENT IN ROOM SUCH THAT LIGHTING IS NOT OBSTRUCTED BY DUCTWORK, PIPING AND CONDUIT. PROVIDE NECESSARY CHAIN-MOUNTING HARDWARE TO SUSPEND FIXTURES WHERE REQUIRED.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. WHERE EXIT SIGNS ARE SHOWN AS WALL MOUNTED ABOVE A DOOR, MOUNT SUCH THAT THE BOTTOM OF THE SIGN IS NO MORE THAN 3" ABOVE THE DOOR FRAME, UNLESS INDICATED OTHERWISE ON PLANS.
10. UNLESS OTHERWISE NOTED, PENDANT FIXTURE MOUNTING HEIGHTS IN FINISHED SPACES SHALL BE AS FOLLOWS:
    A. CEILING HEIGHT 9'-0" OR LOWER: 7'-6" TO BOTTOM OF FIXTURE
    B. CEILING HEIGHT 9'-6" TO 11'-0": 8'-0" TO BOTTOM OF FIXTURE
    C. CEILING HEIGHT 11'-0" TO 12'-0": 9'-6" TO BOTTOM OF FIXTURE
    D. MINIMUM PENDANT LENGTH SHALL BE 1'-6"
    E. CONSULT WITH ARCHITECT AND ENGINEER FOR OTHER CEILING HEIGHTS.

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KEYPLAN

Number	Date	Issued For

ELECTRICAL SCHEDULES AND DIAGRAMS

Date: 04/07/2022
Scale: NTS
Proj. Number: 20287.10
Drawing Number: E600

Switchboard: MSB

Location: MECHANICAL ROOM 011 | Volts: 120/208 Wye | A.I.C. Rating: 100K
Supply From: | Phases: 3 | Mains Type: CU
Mounting: FLOOR | Wires: 4 | Mains Rating: 1200 A
Enclosure: TYPE 1 | | MCB Rating: 1200 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	PPB	3	200 A	200 A	35580 VA	
2	LPB	3	100 A	100 A	1984 VA	
3	MPB	3	200 A	200 A	36678 VA	
4	LP1	3	100 A	100 A	6181 VA	
5	MP1	3	100 A	100 A	15111 VA	
6	PP1	3	150 A	150 A	15290 VA	
7	LP2	3	100 A	100 A	5793 VA	
8	PP2A	3	200 A	200 A	48240 VA	
9	PP2B	3	125 A	125 A	13380 VA	
10	MP2	3	600 A	600 A	135445 VA	
11	ELEVATOR (EXISTING)	3	200 A	125 A	33120 VA	
12	IT-MDP	3	100 A	100 A	20844 VA	
13	DOAS-1	3	200 A	125 A	39852 VA	
14	DOAS-2	3	200 A	110 A	36144 VA	
15	SPARE	3	200 A	200 A	0 VA	
16	SPARE	3	100 A	100 A	0 VA	
17	SPARE	3	125 A	125 A	0 VA	
18	SPACE	1	--	--	--	
19	SPACE	1	--	--	--	
20	SPACE	1	--	--	--	
				Total Conn. Load:	443331 VA	
				Total Amps:	1230.6 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	83920 VA	100.00%	83920 VA		
Lighting	5108 VA	125.00%	6385 VA	Total Conn. Load:	443331 VA
Other	212941 VA	100.00%	212941 VA	Total Est. Demand:	444607 VA
Power	141370 VA	100.00%	141370 VA	Total Conn. Current:	1230.6 A
				Total Est. Demand Current:	1234.1 A

Notes:

Branch Panel: MPB

Location: MECHANICAL ROOM 010 | Volts: 120/208 Wye | A.I.C. Rating: 42K
Supply From: MSB | Phases: 3 | Bus Material: CU
Mounting: Surface | Wires: 4 | Bus Rating: 225 A
Enclosure: Type 1 | | MCB Rating / MLO: 200 A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	VEF'S 001 & 002 & BC-2 004	20 A	2	0.64	0.94					3	20 A	VAC-1	2
3	--	--	--			0.64	0.94			--	--	--	4
5	CA-1	35 A	3					2.10	0.94	--	--	--	6
7	--	--	--	2.10	0.75					1	20 A	WH-1	8
9	--	--	--			2.10	0.75			1	20 A	WH-2	10
11	WHRP-1	20 A	1					0.36	0.60	1	20 A	COMPRESSOR FOR PREACTION...	12
13	PREACTION SYSTEM PANEL	20 A	1	0.33	1.17					3	15 A	EXISTING SUMP PUMP 1	14
15	EXISTING SUMP PUMP 2	20 A	3			1.17	1.17			--	--	--	16
17	--	--	--					1.17	1.17	--	--	--	18
19	--	--	--	1.17	1.17					3	15 A	BP-1	20
21	BP-2	15 A	3			1.17	1.17			--	--	--	22
23	--	--	--					1.17	1.17	--	--	--	24
25	--	--	--	1.17	1.50					3	20 A	P-3	26
27	P-3	20 A	3			1.50	1.50			--	--	--	28
29	--	--	--					1.50	1.50	--	--	--	30
31	--	--	--	1.50	0.50					1	20 A	BMS PANEL	32
33	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	34
35	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	38
39	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	40
41	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	42
		Phase Load:		12.92 kVA		12.09 kVA		11.66 kVA					
		Phase...		108.2 A		101.3 A		97.2 A					
		Total Load:		36.68 kVA									
	Notes:	Total Amps:		101.81 A									

Branch Panel: PP2A

Location: ELEC 210 | Volts: 120/208 Wye | A.I.C. Rating: 42K
Supply From: MSB | Phases: 3 | Bus Material: CU
Mounting: Surface | Wires: 4 | Bus Rating: 225 A
Enclosure: Type 1 | | MCB Rating / MLO: 200 A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLES STOR/WORKROOM 220	20 A	1	0.54	0.00					1	20 A	EWC SIM CENTER CORR 214	2
3	RECEPTACLES SP EXAM 225	20 A	1			1.08	1.08			1	20 A	RECEPTACLES SP EXAM 228	4
5	RECEPTACLES FACULTY TD 229	20 A	1					0.72	0.72	1	20 A	RECEPTACLES FACULTY TD 229	6
7	RECEPTACLES SIM OFFICE 230	20 A	1	0.72	0.90					1	20 A	RECEPTACLES SIM OFFICE 230	8
9	RECEPTACLES SIM OFFICE 231	20 A	1			0.72	0.72			1	20 A	RECEPTACLES DEBRIEF ROOM 232	10
11	RECEPTACLES DEBRIEF ROOM 232	20 A	1					0.72	0.72	1	20 A	RECEPTACLES DEBRIEF ROOM 233	12
13	RECEPTACLES DEBRIEF ROOM 233	20 A	1	0.72	0.54					1	20 A	RECEPTS PHY ASSESSMENT ROOM...	14
15	RECEPTS PHY ASSESSMENT ROOM...	20 A	1			0.72	0.72			1	20 A	RECEPTS PHY ASSESSMENT ROOM...	16
17	RECEPTS PHY ASSESSMENT ROOM...	20 A	1					0.72	0.72	1	20 A	RECEPTS PHY ASSESSMENT ROOM...	18
19	POWER PHY ASSESSMENT ROOM 212	20 A	1	0.36	0.72					1	20 A	RECEPTS SIM CENTER CORR. 214	20
21	RECEPTACLES CTRL 222	20 A	1			0.72	1.08			1	20 A	RECEPTACLES CTRL 224	22
23	RECEPTACLES CTRL 224	20 A	1					0.72	0.72	1	20 A	RECEPTACLES CTRL 227	24
25	RECEPTS MED SIM ROOM 226	20 A	1	0.90	0.90					1	20 A	RECEPTS FLEX SIM ROOM 223B	26
27	RECEPTS FLEX SIM ROOM 223A	20 A	1			0.90	0.90			1	20 A	RECEPTS MED SIM ROOM 221	28
29	RECEPTACLES CONTROL 217	20 A	1					0.72	0.90	1	20 A	RECEPTS HEADWALL 221 EMERG	30
31	RECEPTS HEADWALL 221 NORMAL	20 A	1	0.72	0.90					1	20 A	RECEPTS HEADWALL 223A EMERG	32
33	RECEPTS HEADWALL 223A NORMAL	20 A	1			0.72	0.90			1	20 A	RECEPTS HEADAWALL 223B EMERG	34
35	RECEPTS HEADWALL 223B NORMAL	20 A	1					0.72	0.90	1	20 A	RECEPTS HEADWALL 226 EMERG	36
37	RECEPTS HEADWALL 226 NORMAL	20 A	1	0.72	0.72					1	20 A	RECEPTS SIM CENTER CORR. 214	38
39	RECEPTACLES NURSE STATION 215	20 A	1			0.72	0.72			1	20 A	RECEPTACLES NURSE STATION 215	40
41	POWER GAS ALARM VALVE	20 A	1					0.18	0.72	1	20 A	RECEPTACLES LARGE SIM ROOM 216	42
43	RECEPTACLES BEDSIDE LAB 213	20 A	1	0.36	0.72					1	20 A	RECEPT/POWER BEDSIDE LAB 213	44
45	RECEPTS HEADWALL 216 NORMAL	20 A	1			0.72	0.90			1	20 A	RECEPTS HEADWALL 216 EMERG	46
47	RECEPTS HEADWALL 216 NORMAL	20 A	1					0.72	0.90	1	20 A	RECEPTS HEADWALL 216 EMERG	48
49	RECEPTS HEADWALL 213 NORMAL	20 A	1	0.72	0.90					1	20 A	RECEPTS HEADWALL 213 EMERG	50
51	RECEPTS HEADWALL 213 NORMAL	20 A	1			0.72	0.90			1	20 A	RECEPTS HEADWALL 213 EMERG	52
53	RECEPTS HEADWALL 213 NORMAL	20 A	1					0.72	0.90	1	20 A	RECEPTS HEADWALL 213 EMERG	54
55	RECEPTS HEADWALL 213 NORMAL	20 A	1	0.72	0.90					1	20 A	RECEPTS HEADWALL 213 EMERG	56
57	RECEPTS HEADWALL 213 NORMAL	20 A	1			0.72	0.90			1	20 A	RECEPTS HEADWALL 213 EMERG	58
59	RECEPTS HEADWALL 213 NORMAL	20 A	1					0.72	0.90	1	20 A	RECEPTS HEADWALL 213 EMERG	60
61	RECEPTS HEADWALL 213 NORMAL	20 A	1	0.72	0.90					1	20 A	RECEPTS HEADWALL 213 EMERG	62
63	RECEPTS HEADWALL 213 NORMAL	20 A	1			0.72	0.90			1	20 A	RECEPTS HEADWALL 213 EMERG	64
65	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	66
67	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	68
69	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	70
71	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	72
73	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	74
75	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	76
77	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	78
79	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	80
81	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	82
83	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	84
		Phase Load:		15.30 kVA		18.18 kVA		14.76 kVA					
		Phase...		128.2 A		152.2 A		123 A					
		Total Load:		48.24 kVA									
	Notes:	Total Amps:		133.9 A									

Branch Panel: LPB

Location: MECHANICAL ROOM 011 | Volts: 120/208 Wye | A.I.C. Rating: 42K
Supply From: MSB | Phases: 3 | Bus Material: CU
Mounting: Surface | Wires: 4 | Bus Rating: 125 A
Enclosure: Type 1 | | MCB Rating / MLO: 100 A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LTG - RM 009, 010, 011, 012	20 A	1	0.31	0.28					1	20 A	ELTG - RM 008, 010, 011, 012	2
3	LTG - RM 002, 003, 004, 006, 030	20 A	1			0.44	0.10			1	20 A	ELTG - RM 003, 004	4
5	LTG & ELTG - ZONE 1 - BASEMENT...	20 A	1					0.68	0.02	1	20 A	Other	6
7	LTG - ELEV CAB LTG	30 A	2	0.09	0.00					1	20 A	SPARE	8
9	--	--	--			0.09	0.00			1	20 A	SPARE	10
11	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	12
13	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	14
15	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	16
17	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	18
19	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	20
21	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	22
23	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	26
27	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	28
29	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	30
		Phase Load:		0.67 kVA		0.62 kVA		0.70 kVA					
		Phase...		5.7 A		5.2 A		5.9 A					
		Total Load:		1.98 kVA									
	Notes:	Total Amps:		5.51 A									

Branch Panel: MP1

Location: ELEC 114 | Volts: 120/208 Wye | A.I.C. Rating: 42K
Supply From: MSB | Phases: 3 | Bus Material: CU
Mounting: Surface | Wires: 4 | Bus Rating: 125 A
Enclosure: Type 1 | | MCB Rating / MLO: 100 A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	VRF'S 032-039 & BC-1 037	20 A	2	0.88	0.53					2	20 A	VRF'S 103-106,108,115,116,117&120	2
3	--	--	--			0.88	0.53			--	--	--	4
5	VERTICAL PARTITION 038	20 A	3					0.23	0.23	3	20 A	VERTICAL PARTITION 039	6
7	--	--	--	0.23	0.23					--	--	--	8
9	--	--	--			0.23	0.23			--	--	--	10
11	OPERABLE PARTITION 038/039	20 A	3					0.54	0.60	1	20 A	MOTORIZED SHADES 106	12
13	--	--	--	0.54	0.90					1	20 A	MOTORIZED SHADES 115	14
15	--	--	--			0.54	0.30			1	20 A	MOTORIZED SHADES 117	16
17	MOTORIZED SHADES 032	20 A	1					1.20	1.20	1	20 A	MOTORIZED SHADES 033	18
19	MOTORIZED SHADES 034	20 A	1	1.20	1.20					1	20 A	MOTORIZED SHADES 035	20
21	MOTORIZED SHADES 036	20 A	1			1.20	0.60			1	20 A	MOTORIZED SHADES 038	22
23	MOTORIZED SHADES 039	20 A	1					0.60	0.30	1	20 A	MOTORIZED SHADE 037	24
25	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	26
27	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	28
29	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	30
		Phase Load:		5.71 kVA		4.51 kVA		4.90 kVA					
		Phase...		48.1 A		37.6 A		41.3 A					
		Total Load:		15.11 kVA									
	Notes:	Total Amps:		41.94 A									

Branch Panel: PP1

Location: ELEC 114 | Volts: 120/208 Wye | A.I.C. Rating: 42K
Supply From: MSB | Phases: 3 | Bus Material: CU
Mounting: Surface | Wires: 4 | Bus Rating: 225 A
Enclosure: Type 1 | | MCB Rating / MLO: 150 A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLES HUDDLE RMS 116 &...	20 A	1	0.72	0.54					1	20 A	RECEPTACLES FACULTY TD 115	2
3	RECEPTACLES FACULTY TD 115	20 A	1			0.90	0.18			1	20 A	COPIER FACULTY TD 115	4
5	RECEPTACLES FACULTY TD 115	20 A	1					0.36	1.26	1	20 A	RECEPTACLES HUDDLE ROOM 113	6
7	RECEPTACLES STUDY CARRELS 106	20 A	1	0.72	0.90					1	20 A	RECEPTACLES GROUP THERAPY 105	8
9	RECEPTACLES GROUP THERAPY 105	20 A	1			0.90	0.90			1	20 A	RECEPTACLES GROUP THERAPY 104	10
11	RECEPTACLES GROUP THERAPY 104	20 A	1					0.90	0.90	1	20 A	RECEPTACLES COLLA AREA 120	12
13	RECEPTACLES CORR 103 & ELEC 114	20 A	1	0.54	0.79					1	20 A	RECEPTACLES CORRIDOR 103	14
15	FLOOR BOX CORRIDOR 103	20 A	1			0.36	0.36			1	20 A	RECEPTACLES QUIET ROOM 118	16
17	RECEPTACLES TOILETS 110 & 111	20 A	1					0.72	1.25	1	20 A	EWC CORRIDOR 103	18
19	RECEPTACLES STOR. 108 & JAN. 109	20 A	1	0.36	0.36					1	20 A	PWR - PROJECTOR RM 039	20
21	PWR - PROJECTOR RM 038	20 A	1			0.36	0.15			1	20 A	FARA	22
23	PWR - DOOR OPERATORS	20 A	1					0.50	0.36	1	20 A	PWR - JUNCTION BOX FOR HVAC...	24
25	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	26
27	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	28
29	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	30
31	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	32
33	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	34
35	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	38
39	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	40
41	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	42
		Phase Load:		4.93 kVA		4.11 kVA		6.25 kVA					
		Phase...		42.1 A		34.3 A		53.1 A					
		Total Load:		15.14 kVA									
	Notes:	Total Amps:		42.02 A									

Branch Panel: PPB

Location: MECHANICAL ROOM 011 | Volts: 120/208 Wye | A.I.C. Rating: 42K
Supply From: MSB | Phases: 3 | Bus Material: CU
Mounting: Surface | Wires: 4 | Bus Rating: 225 A
Enclosure: Type 1 | | MCB Rating / MLO: 200 A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLES CLASSROOM 038	20 A	1	0.90	0.90					1	20 A	RECEPTACLES CLASSROOM 038	2
3	RECEPTACLES CLASSROOM 038	20 A	1			1.08	0.90			1	20 A	RECEPTACLES CLASSROOM 038	4
5	RECEPTACLES CLASSROOM 039	20 A	1					0.90	0.72	1	20 A	RECEPTACLES CLASSROOM 039	6
7	RECEPTACLES CLASSROOM 039	20 A	1	0.90	0.72					1	20 A	RECEPTACLES CLASSROOM 039	8
9	RECEPTACLES CLASSROOM STOR...	20 A	1			0.72	0.54			1	20 A	RECEPTACLES MAIN STREET 037	10
11	RECEPTACLES MAIN STREET 037	20 A	1					0.54	0.72	1	20 A	RECEPTACLES MAIN STREET 037	12
13	RECEPTS STRUDENT BREAKOUT 036	20 A	1	0.72	0.90					1	20 A	RECEPTACLES SEMINAR ROOM 035	14
15	RECEPTACLES SEMINAR 035	20 A	1			0.72	0.90			1	20 A	RECEPTACLES SEMINAR ROOM 034	16
17	RECEPTACLES SEMINAR 034	20 A	1					1.08	0.90	1	20 A	RECEPTACLES SEMINAR ROOM 033	18
19	RECEPTACLES SEMINAR 033	20 A	1	1.08	0.54					1	20 A	RECEPTACLES VENDING 002	20
21	RECEPTACLE VENDING 002	20 A	1			0.18	0.18			1	20 A	RECEPTACLE VENDING 002	22
23	RECEPTACLE VENDING 002	20 A	1					0.18	0.18	1	20 A	RECEPTACLE VENDING 002	24
25	EWC IPE STUDENT LOUNGE 001	20 A	1	1.25	0.54					1	20 A	RECEPTACLES STUDENT KITCHEN 006	26
27	MICROWAVE STUDENT KITCHEN 006	20 A	1			1.50	1.50			1	20 A	MICROWAVE STUDENT KITCHEN 006	28
29	REFRIGERATOR STUDENT KITCHEN...	20 A	1					1.00	0.54	1	20 A	RECEPTS IPE STUDENT LOUNGE 001	30
31	RECEPTS IPE STUDENT LOUNGE 001	20 A	1	0.36	0.36					1	20 A	RECEPTACLES MECHANICAL ROOM...	32
33	RECEPTACLES MECHANICAL ROOM...	20 A	1			0.36	0.36			1	20 A	RECEPTACLES ELEV MACH RM 012	34
35	FLOOR BOX STUDENT LOUNGE 032	20 A	1					0.36	1.08	1	20 A	RECEPTACLES TOILET ROOMS...	36
37	CASEWORK IPE STUDENT LOUNGE...	20 A	1	1.00	0.72					1	20 A	RECEPTACLES STUDENT LOUNGE 032	38
39	RCPT - AV RACK	20 A	1			0.72	0.15			1	20 A	FACP	40
41	RCPT - ELEVATOR PIT	20 A	1					0.18	0.36	1	20 A	RECEPTACLE - RS-232 ISOLATOR RM...	42
43	PWR - JUNCTION BOX FOR HVAC...	20 A	1	0.54	0.80					2	20 A	INV-1	44
45	INV-2	40 A	2			2.00	0.80			--	--	--	46
47	--	--	--					2.00	0.00	1	20 A	SPARE	48
49	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	50
51	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	52
53	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	54
55	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	56
57	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	58
59	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	60
		Phase Load:		12.23 kVA		12.61 kVA		10.74 kVA					
		Phase...		103.8 A		107 A		89.5 A					
		Total Load:		35.43 kVA									
	Notes:	Total Amps:		98.34 A									

Branch Panel: MP2

Location: ELEC 210 | Volts: 120/208 Wye | A.I.C. Rating: 42K
Supply From: MSB | Phases: 3 | Bus Material: CU
Mounting: Surface | Wires: 4 | Bus Rating: 600 A
Enclosure: Type 1 | | MCB Rating / MLO: 600 A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	MOTORIZED SHADES 206	20 A	1	0.60	0.90					1	20 A	MOTORIZED SHADES 208	2
3	CU-1 MODULE #1	70 A	3			5.64	5.64			3	70 A	CU-1 MODULE #2	4
5	--	--	--					5.64	5.64	--	--	--	6
7	--	--	--	5.64	5.64					--	--	--	8
9	CU-2 MODULE #1	70 A	3			5.64	5.64			3	70 A	CU-2 MODULE #2	10
11	--	--	--					5.64	5.64	--	--	--	12
13	--	--	--	5.64	5.64					--	--	--	14
15	CU-3 MODULE #1	70 A	3			5.64	5.64			3	70 A	CU-3 MODULE #2	16
17	--	--	--					5.64	5.64	--	--	--	18
19	--	--	--	5.64	5.64					--	--	--	20
21	CU-4 MODULE #1	60 A	3			4.56	4.56			3	60 A	CU-4 MODULE #2	22
23	--	--	--					4.56	4.56	--	--	--	24
25	--	--	--	4.56	4.56					--	--	--	26
27	VRF'S...	20 A	2			0.41	0.55			2	20 A	VRF'S 220-231 & BC-3-1 220	28
29	--	--	--					0.41	0.55	--	--	--	30
31	VRF'S 202,203,204,206,208 & BC-4 207	20 A	2	1.13	0.18					1	20 A	MOTORIZED SHADE 213	32
33	--	--	--			1.13	0.18			1	20 A	MOTORIZED SHADE 217	34
35	MOTORIZED SHADES 218	20 A	1					0.36	0.18	1	20 A	MOTORIZED SHADE 220	36
37	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	38
39	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	40
41	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	42
		Phase Load:		45.77 kVA		45.22 kVA		44.45 kVA					
		Phase...		382.4 A		377.8 A		370.4 A					
		Total Load:		135.44 kVA									
	Notes:	Total Amps:		375.96 A									

Branch Panel: PP2B

Location: ELEC 210 | Volts: 120/208 Wye | A.I.C. Rating: 42K
Supply From: MSB | Phases: 3 | Bus Material: CU
Mounting: Surface | Wires: 4 | Bus Rating: 125 A
Enclosure: Type 1 | | MCB Rating / MLO: 125 A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLES IPE COLL. SPACE 203	20 A	1	0.72	0.72					1	20 A	RECEPTACLES IPE COLL. SPACE 203	2
3	RECEPTACLES IPE COLL. SPACE 203	20 A	1			0.54	0.54			1	20 A	RECEPTACLES IPE COLL. SPACE 203	4
5	RECEPTACLES ADL OT LAB 204	20 A	1					0.90	0.54	1	20 A	RECEPTACLES ADL OT LAB 204	6
7	RECEPTACLES ADL OT LAB 204	20 A	1	0.54	0.00					1	20 A	REF. ADL OT LAB 204	8
9	RECEPTACLES ADL OT LAB 204	20 A	1			0.36	0.18			1	20 A	RANGE HOOD ADL OT LAB 204	10
11	RANGE ADL OT LAB 204	40 A	2					0.09	0.00	1	20 A	DISHWASHER ADL OT LAB 204	12
13	--	--	--	0.09	0.00					1	20 A	WASHER ADL OT LAB 204	14
15	DRYER ADL OT LAB 204	40 A	2			0.09	0.72			1	20 A	RECEPTS TOILETS 205 & 207	16
17	--	--	--					0.09	0.72	1	20 A	RECEPTACLES CORRIDOR 201	18
19	RECEPTACLES OT STORAGE 206	20 A	1	1.08	0.54					1	20 A	RECEPTACLES FLEX OT LAB 208	20
21	RECEPTACLES FLEX OT LAB 208	20 A	1			0.90	0.90			1	20 A	RECEPTACLES FLEX OT LAB 208	22
23	RECEPTACLES CORR. 201 & STOR....	20 A	1					0.54	0.36	1	20 A	RECEPTACLES ELEC 210 & JAN. 211	24
25	EWC CORRIDOR 201	20 A	1	1.50	0.54					1	20 A	RECEPTACLES ROOF	26
27	SPARE	20 A	1			0.00	0.18			1	20 A	RCPT - ELEVATOR TOP OF SHAFT	28
29	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	30
31	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	32
33	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	34
35	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	36
37	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	38
39	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	40
41	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	42
		Phase Load:		5.73 kVA		4.41 kVA		3.24 kVA					
		Phase...		49.3 A		38.3 A		27 A					
		Total Load:		13.38 kVA									
	Notes:	Total Amps:		37.14 A									

Branch Panel: LP1

Location: ELEC 114 | Volts: 120/208 Wye | A.I.C. Rating: 42K
Supply From: MSB | Phases: 3 | Bus Material: CU
Mounting: Surface | Wires: 4 | Bus Rating: 125 A
Enclosure: Type 1 | | MCB Rating / MLO: 100 A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LTG - RM 038, 039, 120	20 A	1	0.60	0.48					1	20 A	ELTG - RM 038, 039, 120	2
3	LTG - RM 033, 034, 035	20 A	1			0.80	0.12			1	20 A	ELTG - RM 110, 111, 112, 114	4
5	LTG - RM 113, 115, 116, 117	20 A	1					0.62	0.21	1	20 A	LTG - RM 108, 109, 110, 111, 118	6
7	LTG - RM 104, 105	20 A	1	0.24	0.72					1	20 A	LTG & ELTG - ZONE 2 - FIRST LEVEL...	8
9	LTG - ZONE 3 - FIRST LEVEL WEST	20 A	1			1.14	0.35			1	20 A	EXTERIOR LTG - ZONE 6 - NORTH	10
11	EXTERIOR LTG - ZONE 7 - EAST	20 A	1					0.31	0.37	1	20 A	EXTERIOR LTG - ZONE 8 - SOUTH	12
13	ELTG - RM 104, 105	20 A	1	0.24	0.00					1	20 A	SPARE	14
15	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	16
17	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	18
19	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	20
21	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	22
23	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	26
27	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	28
29	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	30
		Phase Load:		2.27 kVA		2.41 kVA		1.50 kVA					
		Phase...		19.9 A		21.1 A		12.5 A					
		Total Load:		6.18 kVA									
	Notes:	Total Amps:		17.16 A									

Branch Panel: LP2

Location: ELEC 210 | Volts: 120/208 Wye | A.I.C. Rating: 42K
Supply From: MSB | Phases: 3 | Bus Material: CU
Mounting: Surface | Wires: 4 | Bus Rating: 125 A
Enclosure: Type 1 | | MCB Rating / MLO: 100 A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LTG - RM 202, 203, 204	20 A	1	0.62	0.42					1	20 A	ELTG - RM 205, 207,208, 209, 210	2
3	LTG - RM 205, 206, 207, 208	20 A	1			0.63	0.59			1	20 A	LTG - RM 211, 213, 215, 216, 217	4
5	LTG - RM 221, 222, 223A, 223B, 224,...	20 A	1					0.64	0.44	1	20 A	LTG - RM 220, 225, 228, 229, 230, 231	6
7	LTG - RM 212, 232, 233	20 A	1	0.53	0.63					1	20 A	LTG & ELTG - ZONE 5 - SECOND LEV...	8
9	LTG & ELTG - ZONE 4 - SECOND LEV...	20 A	1			0.45	0.42			1	20 A	ELTG - RM 203, 204	10
11	ELTG - RM 212, 213	20 A	1					0.40	0.02	1	20 A	LTG - ELEVATOR TOP OF SHAFT	12
13	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	14
15	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	16
17	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	18
19	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	20
21	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	22
23	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	26
27	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	28
29	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	30
		Phase Load:		2.20 kVA		2.09 kVA		1.50 kVA					
		Phase...		19.1 A		18.2 A		12.5 A					
		Total Load:		5.79 kVA									
	Notes:	Total Amps:		16.08 A									

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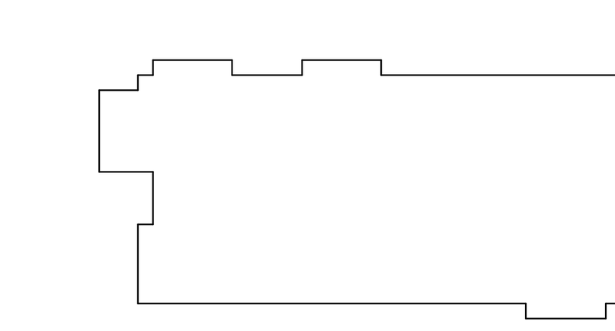

KEYPLAN

Number	Date	Issued For

ELECTRICAL PANELBOARD SCHEDULES

Date: 04/07/2022
Scale:
Proj. Number: 20287.10
Drawing Number: E601

Branch Panel: IT-MDP

Location: CAMPUS DATA CENTER... **Supply From:** MSB **Mounting:** Surface **Enclosure:** Type 1

Volts: 120/208 Wye **Phases:** 3 **Wires:** 4

A.I.C. Rating: **Bus Material:** CU **Bus Rating:** 125 A **MCB Rating / MLO:** 100 A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	IT1	50 A	3	1.44	3.57					3	50 A	IT2	2
3	--	--	--			1.44	2.85			--	--	--	4
5	--	--	--					1.08	1.44	--	--	--	6
7	AC-1/ACU-1	20 A	2	1.14	0.36					1	20 A	QUAD RECEPTACLE DATA CENTER...	8
9	--	--	--			1.14	0.36			1	20 A	QUAD RECEPTACLE DATA CENTER...	10
11	QUAD RECEPTACLE DATA CENTER...	20 A	1					0.36	0.36	1	20 A	QUAD RECEPTACLE DATA CENTER...	12
13	QUAD RECEPTACLE DATA CENTER...	20 A	1	0.36	0.36					1	20 A	QUAD RECEPTACLE DATA CENTER...	14
15	QUAD RECEPTACLE DATA CENTER...	20 A	1			0.36	0.50			1	20 A	ACCESS CONTROL PANEL	16
17	L6-30 RECEPTACLE DATA CENTER 007	30 A	2					1.50	0.36	1	20 A	L5-20 RECEPTACLE DATA CENTER 007	18
19	--	--	--	1.50	0.36					1	20 A	L5-20 RECEPTACLE DATA CENTER 007	20
21	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	22
23	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	26
27	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	28
29	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	30
		Phase Load:		9.09 kVA		6.65 kVA		5.10 kVA					
		Phase...		77.8 A		57.4 A		42.5 A					
		Total Load:		20.84 kVA									
Notes:		**Total Amps:**		57.86 A									

Branch Panel: IT1

Location: IT 112 **Supply From:** IT-MDP **Mounting:** Surface **Enclosure:** Type 1

Volts: 120/208 Wye **Phases:** 3 **Wires:** 4

A.I.C. Rating: 22K **Bus Material:** CU **Bus Rating:** 125 A **MCB Rating / MLO:** 50A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	QUAD RECEPTACLE DATA 112	20 A	1	0.36	0.36					1	20 A	QUAD RECEPTACLE DATA 112	2
3	QUAD RECEPTACLE DATA 112	20 A	1			0.36	0.36			1	20 A	QUAD RECEPTACLE DATA 112	4
5	QUAD RECEPTACLE DATA 112	20 A	1					0.36	0.36	1	20 A	QUAD RECEPTACLE DATA 112	6
7	QUAD RECEPTACLE DATA 112	20 A	1	0.36	0.36					1	20 A	QUAD RECEPTACLE DATA 112	8
9	QUAD RECEPTACLE DATA 112	20 A	1			0.36	0.36			1	20 A	L5-20 RECEPTACLE DATA 112	10
11	L5-20 RECEPTACLE DATA 112	20 A	1					0.36	0.00	1	20 A	SPARE	12
13	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	14
15	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	16
17	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	18
19	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	20
21	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	22
23	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	26
27	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	28
29	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	30
		Phase Load:		1.44 kVA		1.44 kVA		1.08 kVA					
		Phase...		12.5 A		12.5 A		9 A					
		Total Load:		3.96 kVA									
Notes:		**Total Amps:**		10.99 A									

Branch Panel: IT2

Location: DATA 209 **Supply From:** IT-MDP **Mounting:** Surface **Enclosure:** Type 1

Volts: 120/208 Wye **Phases:** 3 **Wires:** 4

A.I.C. Rating: 22K **Bus Material:** CU **Bus Rating:** 125 A **MCB Rating / MLO:** 50A MCB

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	AC-2,AC-3/ACU-2	30 A	2	1.77	0.36					1	20 A	QUAD RECEPTACLE DATA 209	2
3	--	--	--			1.77	0.36			1	20 A	QUAD RECEPTACLE DATA 209	4
5	QUAD RECEPTACLE DATA 209	20 A	1					0.36	0.36	1	20 A	QUAD RECEPTACLE DATA 209	6
7	QUAD RECEPTACLE DATA 209	20 A	1	0.36	0.36					1	20 A	QUAD RECEPTACLE DATA 209	8
9	QUAD RECEPTACLE DATA 209	20 A	1			0.36	0.36			1	20 A	QUAD RECEPTACLE DATA 209	10
11	QUAD RECEPTACLE DATA 209	20 A	1					0.36	0.36	1	20 A	QUAD RECEPTACLE DATA 209	12
13	L5-20 RECEPTACLE DATA 209	20 A	1	0.36	0.36					1	20 A	L5-20 RECEPTACLE DATA 209	14
15	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	16
17	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	18
19	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	20
21	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	22
23	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	24
25	SPARE	20 A	1	0.00	0.00					1	20 A	SPARE	26
27	SPARE	20 A	1			0.00	0.00			1	20 A	SPARE	28
29	SPARE	20 A	1					0.00	0.00	1	20 A	SPARE	30
		Phase Load:		3.57 kVA		2.85 kVA		1.44 kVA					
		Phase...		31.5 A		25.5 A		12 A					
		Total Load:		7.86 kVA									
Notes:		**Total Amps:**		21.81 A									

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Number	Date	Issued For

ELECTRICAL PANELBOARD SCHEDULES

Date: 04/07/2022

Scale:

Proj. Number: 20287.10

Drawing Number: E602

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ELECTRICAL TECHNOLOGY NOTES

1. COORDINATE POWER REQUIREMENTS TO ALL CONTROLLERS AND POWER SUPPLIES WITH THE SYSTEM PROVIDER AND THE ELECTRICAL SERIES DRAWINGS.
2. COORDINATE POWER REQUIREMENTS, RECOMMENDED WIRE SIZES AND EXACT POINTS OF CONNECTION FOR ELECTRIC LOCKING HARDWARE PROVIDED BY DIVISION 08 CONTRACTOR PRIOR TO INSTALLATION. COORDINATE WITH DOOR HARDWARE SCHEDULES AND SPECIFICATIONS.
3. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED DEVICES. COORDINATE ALL WALL MOUNTED DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4. REFER TO **AV SERIES** DRAWINGS FOR DEVICE TYPES, BACKBOX REQUIREMENTS, MOUNTING HEIGHTS AND INFRASTRUCTURE (CONDUIT) REQUIREMENTS FOR ALL 'AV' JUNCTION BOX DEVICE LOCATIONS SHOWN ON DRAWINGS.
5. REFER TO DETAILS ON DRAWING **E502** FOR ACCESS CONTROLLED DOOR REQUIREMENTS.
6. COORDINATE AIMING OF ALL CAMERAS WITH THE OWNER AFTER SUBSTANTIAL COMPLETION AND BEFORE TURNOVER.
7. PRIOR TO ROUGH-IN, COORDINATE ALL AUDIOVISUAL AND TELECOMMUNICATIONS DEVICE BACKBOX LOCATIONS WITH OWNER-PROVIDED PROJECTION AND VISUAL DISPLAY EQUIPMENT.
8. DEVICES LOCATED IN GYMNASIUMS, LOADING DOCKS OR SIMILAR AREAS SUBJECT TO PHYSICAL DAMAGE SHALL BE PROVIDED WITH PROTECTIVE GUARDS OR COVERS SUITABLE FOR THE LOCATION OR APPLICATION, AND COMPATIBLE WITH EACH DEVICE. COVERS SHALL IN NO WAY AFFECT OR REDUCE PERFORMANCE OF RADIO AND/OR WIRELESS DEVICES.
9. DEVICES SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH DIVISION 26 SPECIFICATIONS FOR PROVISIONS OF RELATED INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO: HANGERS, SUPPORTS, CONDUITS, BACKBOXES AND OTHER RACEWAYS.
10. INSTALLATION OF TELECOMMUNICATIONS CONDUITS, RACEWAY AND BENDS SHALL MEET TIA RECOMMENDED INSTALLATION METHODS AND GUIDELINES. CONDUIT BENDS SHALL BE PROVIDED WITH SMOOTH SWEEPS AND BEND RADII TO MEET MANUFACTURER RECOMMENDED TOLERANCES FOR EACH CABLE THAT WITH BE ROUTED WITHIN.
11. A MINIMUM OF SIX(6) FEET OF SLACK SHALL BE PROVIDED FOR EACH HORIZONTAL CABLE DROP AT WORK AREA OUTLETS, COILED AND SECURED ABOVE ACCESSIBLE CEILING. IN AREAS WITHOUT AN ACCESSIBLE CEILING, PROVIDE CABLING COILED TIGHT TO STRUCTURE ABOVE.
12. PROVIDE CALIBRATION, OPTIMIZATION, PROGRAMMING AND FINAL ADJUSTMENTS FOR SECURITY DEVICES SPECIFIED HEREIN.
13. EXPOSED TELECOMMUNICATIONS AND SECURITY CABLING SHALL BE ROUTED IN CONDUIT, ADHERING TO DIVISION 26 SPECIFICATIONS.

TECHNOLOGY DEVICE SCHEDULE

SYMBOL	DESCRIPTION	CONDUIT/ BACKBOX	NOTES
(X)	DATA OUTLET	2-GANG BOX @ 18" AFF WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING	SUBSCRIPT "a" = 6" ABOVE COUNTER
(X,Y)	COMBINATION OUTLET	2-GANG BOX @ 18" AFF WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING	
	WALL PHONE	2-GANG BOX @ 48" AFF WITH 1-GANG MUD RING AND 3/4"C. STUBBED ABOVE ACCESSIBLE CEILING	PROVIDE WITH STAINLESS STEEL RECESSED WALL PLATE FOR PHONE
AP	OUTLET FOR WIRELESS ACCESS POINT (CEILING)	2-GANG BACKBOX FLUSHED INTO CEILING. WHEN MOUNTED IN ACT CEILING PROVIDE TILE BRIDGE FOR SUPPORT. IN AREAS WITHOUT CEILING, BOX SHALL BE SURFACE MOUNTED TO STRUCTURE.	TERMINATE AT TWO-PORT SURFACE BOX WITHIN BACKBOX, EQUAL TO SIEMON MX-SM2
AVD	DATA FOR AV WALL BOX	MOUNT IN ADJACENT AV WALL BOX	TERMINATE AT DEDICATED FACEPLATE WITH RJ45 CONNECTORS IN WALL BOX
AVH	DATA FOR HIGH AV DISPLAY	2-GANG BOX WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING	COORDINATE EXACT LOCATION OF BACKBOX WITH OWNER PRIOR TO ROUGH-IN, SUCH THAT BOX IS CONCEALED BEHIND DISPLAY
AVC	DATA FOR CEILING AV DISPLAY	MOUNT IN ADJACENT AV CEILING BOX	TERMINATE AT DEDICATED FACEPLATE WITH RJ45 CONNECTORS IN WALL BOX
SIM1	SIMULATION EQUIPMENT SUBNET INFRASTRUCTURE	2-GANG BOX WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING, 18"AFF.	
SIM2	SIMULATION EQUIPMENT SUBNET INFRASTRUCTURE	2-GANG BOX WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING, 6' AFF.	
SIM3	SIMULATION EQUIPMENT SUBNET INFRASTRUCTURE	2-GANG BOX WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING, 5' AFF.	
SIM4	SIMULATION EQUIPMENT SUBNET INFRASTRUCTURE	2-GANG BOX WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING, 18"AFF.	
SIM5	SIMULATION EQUIPMENT SUBNET INFRASTRUCTURE	2-GANG BOX WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING, 18"AFF.	
SIM6	SIMULATION EQUIPMENT SUBNET INFRASTRUCTURE	2-GANG BOX WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING, 48"AFF.	
AVS	SIMULATION EQUIPMENT SUBNET INFRASTRUCTURE	2-GANG BACKBOX FLUSHED INTO CEILING. WHEN MOUNTED IN ACT CEILING PROVIDE TILE BRIDGE FOR SUPPORT. IN AREAS WITHOUT CEILING, BOX SHALL BE SURFACE MOUNTED TO STRUCTURE.	LOCATED ABOVE ACCESSIBLE CEILING FOR SUPPORT OF SIMULATION AV DEVICES
PTZ	SIMULATION EQUIPMENT SUBNET INFRASTRUCTURE	2-GANG BACKBOX FLUSHED INTO CEILING. WHEN MOUNTED IN ACT CEILING PROVIDE TILE BRIDGE FOR SUPPORT. IN AREAS WITHOUT CEILING, BOX SHALL BE SURFACE MOUNTED TO STRUCTURE.	LOCATED ON THE CEILING FOR SUPPORT OF SIMULATION PAN-TILT-ZOOM CAMERA DEVICES
AMP	SIMULATION EQUIPMENT SUBNET INFRASTRUCTURE	2-GANG BACKBOX FLUSHED INTO CEILING. WHEN MOUNTED IN ACT CEILING PROVIDE TILE BRIDGE FOR SUPPORT. IN AREAS WITHOUT CEILING, BOX SHALL BE SURFACE MOUNTED TO STRUCTURE.	LOCATED ABOVE ACCESSIBLE CEILING FOR SUPPORT OF SIMULATION AMPLIFIER DEVICE
ND	DATA FOR NURSING SIM NODE	2-GANG BOX WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING. COORDINATE EXACT LOCATION WITH OWNER'S EQUIPMENT VENDOR PRIOR TO ROUGH-IN.	ALL CABLING BETWEEN NODE AND SIMULATION EQUIPMENT SHALL BE PROVIDED BY OWNER'S EQUIPMENT VENDOR.
PB	DATA FOR PANIC BUTTON	2-GANG BOX WITH 1-GANG MUD RING AND 1-1/4"C. STUBBED ABOVE ACCESSIBLE CEILING.	
CR XX	CARD READER	COMPATIBLE SINGLE GANG BOX WITH MUD RING @ 42" AFF WITH 3/4"C. STUBBED ABOVE AN ACCESSIBLE CEILING.	ADDITIONAL DEVICES AND INFRASTRUCTURE REQUIRED AT DOOR, REFER TO SECURITY DETAILS FOR ADDITIONAL REQUIREMENTS. "XX"= CARD READER TYPE, WHERE APPLICABLE.
MD	MOTION DETECTOR (WALL MOUNT)	COMPATIBLE SINGLE GANG BOX @ 6" BELOW CEILING WITH 3/4"C STUBBED ABOVE AN ACCESSIBLE CEILING.	REFER TO SECURITY SYSTEM SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
MD	MOTION DETECTOR (360 DEGREEE CEILING TYPE)	COMPATIBLE SINGLE GANG BOX.	REFER TO SECURITY SYSTEM SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
(XX)	AUDIOVISUAL SYSTEM COMPONENT	REFER TO ASSOCIATED A/V SYSTEM DETAIL FOR CONDUIT AND BACKBOX SPECIFICATIONS.	REFER TO ASSOCIATED A/V SYSTEM DETAIL FOR SPECIFICATIONS.
(XX) (XX) AV AV	AUDIOVISUAL SYSTEM SPEAKER	SPECIALTY BACKBOX PURCHASED WITH SPEAKER. WHEN MOUNTED IN ACT CEILING PROVIDE TILE BRIDGE FOR SUPPORT. IN AREAS WITHOUT CEILING, BOX SHALL BE SURFACE MOUNTED TO STRUCTURE.	REFER TO ASSOCIATED A/V SYSTEM DETAIL FOR SPECIFICATIONS.
(X)	VIDEO SURVEILLANCE CAMERA	REFER TO VIDEO SURVEILLANCE DETAIL FOR CONDUIT AND BACKBOX REQUIREMENTS.	"X" = CAMERA TYPE. REFER TO VIDEO SURVEILLANCE DETAIL AND SPECIFICATIONS.

GENERAL NOTES:
1. ALL CONDUITS SHALL STUB UP TO NEAREST ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE ON PLANS. PROVIDE BUSHINGS FOR ALL CONDUITS. WHERE DEVICES ARE LOCATED BELOW A WINDOW OR STOREFRONT STRUCTURE, CONDUITS SHALL RUN HORIZONTAL TO ACCESSIBLE WALL BEFORE STUBBING UP.
2. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION OF DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
3. ALL FINISHES, COLORS AND COVER MATERIALS SHALL BE SELECTED BY ARCHITECT.
4. WHERE BACKBOXES ARE LOCATED IN A FIRE RATED WALL, PROVIDE FIRE RATED MOLDABLE PUTTY AROUND BOX, EQUAL TO 3M BARRIER MPP+
5. DATA CABLING SHALL BE ROUTED TO PATCH PANELS IN I.T. ROOMS INDICATED ON FLOOR PLANS. TERMINATE CABLING AT SPECIFIC PATCH PANELS INDICATED IN I.T. RACK ELEVATIONS.
6. CONTRACTOR SHALL LABEL EACH DEVICE TERMINATION POINT AND CORRESPONDING PATCH PANEL PORT WITH THE SAME, UNIQUE LABEL. REFER TO SPECIFICATIONS FOR MORE INFORMATION. ALL LABELS SHALL BE FINALIZED WITH AND APPROVED BY OWNER'S I.T. STAFF PRIOR TO INSTALLATION.
7. PROVIDE ALL NECESSARY CONNECTORS, ADAPTERS, KEYSTONES, ATTACHMENTS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
8. TERMINATE ALL STRUCTURED CABLING CABLES IN RJ45 CONNECTORS UNLESS OTHERWISE NOTED.

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KEYPLAN

Number	Date	Issued For

TECHNOLOGY ABBREVIATIONS, NOTES AND SYMBOLS

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AUDIO-VIDEO SYSTEM PRICING NOTES

AV1 INTERACTIVE DISPLAY, INCLUDE THE FOLLOWING EQUIPMENT:
- "AVL" OWNER TO PROVIDE AND INSTALL CRESTRON HD-TX-101-C-1G-E SERIES DECORA STYLE & C2G USB OVER CAT6 EXTENDER DECORA STYLE. EC TO PROVIDE AND INSTALL 3 GANG BOX AT RECEPTACLE HEIGHT 1" CONDUIT STUB UP
- OWNER TO PROVIDE "AVH" DISPLAY BOX FSR PWB-320-TRK. EC TO INSTALL AT 60" OFF. QUAD RECEPTACLE 1" CONDUIT STUB UP
- "AVH" DISPLAY BOX, OWNER TO PROVIDE AND INSTALL:
  - CRESTRON HD-RX-4K-210-C-E -CONNECTED TO IONA SHS NETWORK
  - CRESTRON RMC4 CONNECTED TO IONA SHS NETWORK
  - CRESTRON AM-3100WF CONNECTED TO IONA SHS NETWORK
- "TS" OWNER TO PROVIDE AND INSTALL CRESTRON TSW-770 TOUCHSCREEN CONNECTED TO IONA SHS NETWORK. EC TO PROVIDE AND INSTALL 2 GANG BOX AT 48" OFF 3/4" CONDUIT STUB UP
- "AVH" OWNER TO PROVIDE AND INSTALL INTERACTIVE 65" DISPLAY. LOGITECH MEETUP CAMERA MOUNTED ON DISPLAY. DISPLAY HEIGHT TBD

AV2 SHORT THROW PROJECTOR , INCLUDE THE FOLLOWING EQUIPMENT:
- "AVL" OWNER TO PROVIDE AND INSTALL CRESTRON HD-TX-101-C-1G-E SERIES DECORA STYLE & C2G USB OVER CAT6 EXTENDER DECORA STYLE. EC TO PROVIDE AND INSTALL 3 GANG BOX AT RECEPTACLE HEIGHT 1" CONDUIT STUB UP
- "AVH" EC TO INSTALL 2 GANG BOX WITH 1" STUB UP. HEIGHT TO BE COORDINATED IN THE FIELD
- "AVH" OWNER TO PROVIDE AND INSTALL EPSON 800F
- "AVC" OWNER TO PROVIDE AND INSTALL CEILING BOX CMS491 CHIEF 1 X 2 AV CEILING ENCLOSURE
- "AVC" OWNER TO PROVIDE AND INSTALL AT CEILING:
  - CRESTRON HD-RX-4K-210-C-E -CONNECTED TO IONA SHS NETWORK
  - CRESTRON XAMP-300
  - CRESTRON RMC4 CONNECTED TO IONA SHS NETWORK
  - CRESTRON AM-3100WF CONNECTED TO IONA SHS NETWORK
- "SPK" OWNER TO PROVIDE AND INSTALL SAROS IC6T-W-T.
- "TS" OWNER TO PROVIDE AND INSTALL CRESTRON TSW-770 TOUCHSCREEN CONNECTED TO IONA SHS NETWORK
- SYMBOL WITH O CONNECTED DESIGNATES MEETING OWL PRO INSTALLED BY OWNER IN ROOM

AV3 IN THE PARTITIONED CLASSROOM, INCLUDE THE FOLLOWING EQUIPMENT:

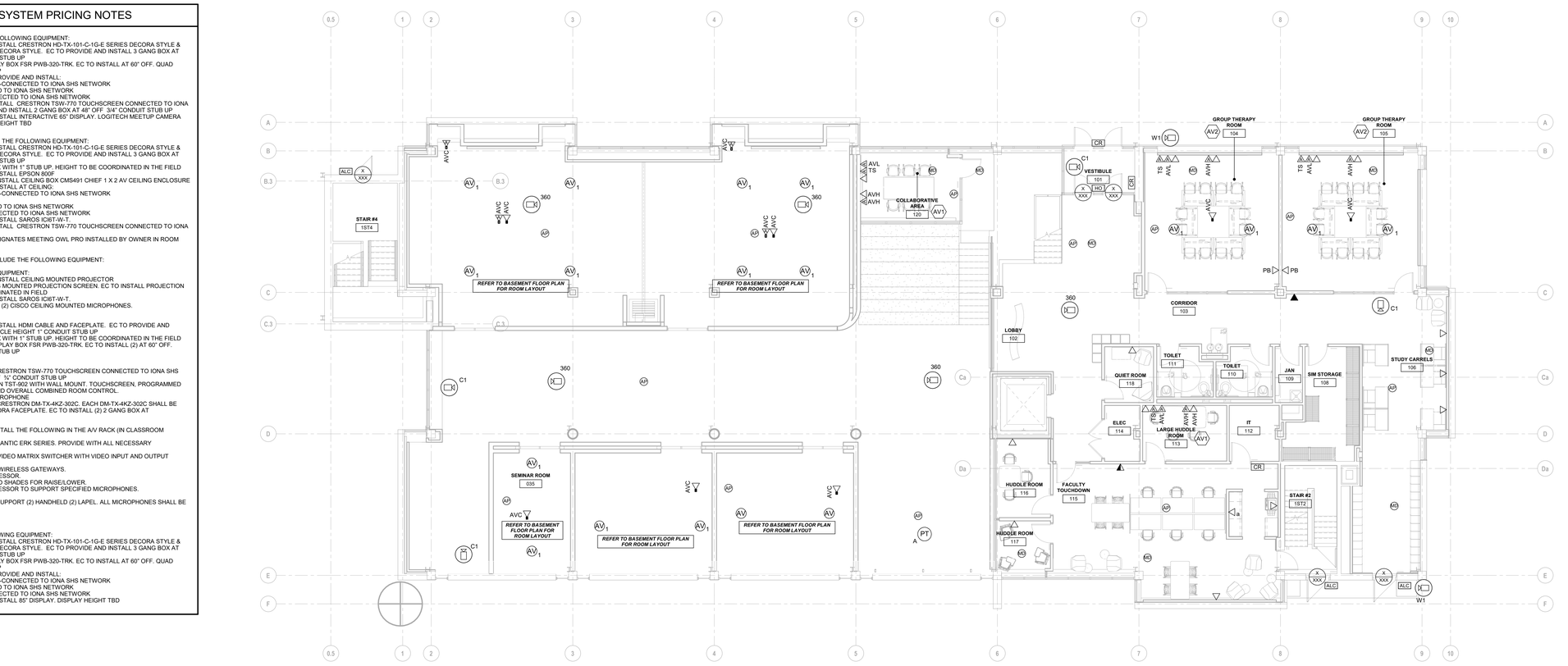
CEILING , INCLUDE THE FOLLOWING EQUIPMENT:
- "AVC" OWNER TO PROVIDE AND INSTALL CEILING MOUNTED PROJECTOR
- "PS" OWNER TO PROVIDE CEILING MOUNTED PROJECTION SCREEN. EC TO INSTALL PROJECTION SCREEN, LOCATION TO BE COORDINATED IN FIELD
- "SPK" OWNER TO PROVIDE AND INSTALL SAROS IC6T-W-T.
- OWNER TO PROVIDE AND INSTALL (2) CISCO CEILING MOUNTED MICROPHONES.

SUPPORT DISPLAY
- "AVL" OWNER TO PROVIDE AND INSTALL HDMI CABLE AND FACEPLATE. EC TO PROVIDE AND INSTALL 1 GANG BOX AT RECEPTACLE HEIGHT 1" CONDUIT STUB UP
- "AVH" EC TO INSTALL 2 GANG BOX WITH 1" STUB UP. HEIGHT TO BE COORDINATED IN THE FIELD
- OWNER TO PROVIDE "AVH" (2) DISPLAY BOX FSR PWB-320-TRK. EC TO INSTALL (2) AT 60" OFF. QUAD RECEPTACLE 1" CONDUIT STUB UP

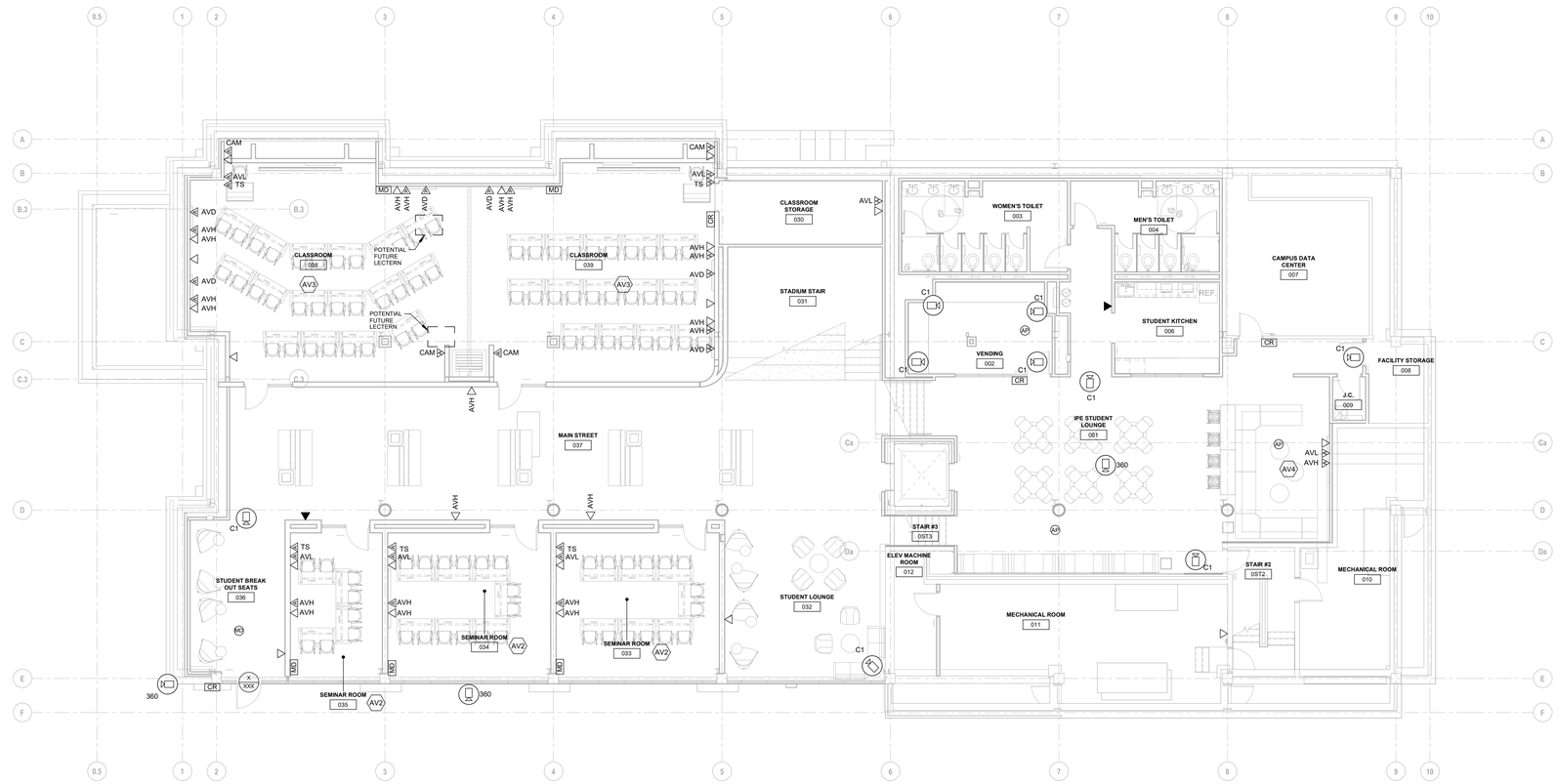
PODIUM
- "TS" (2)CONTROLLER SHALL BE CRESTRON TSW-770 TOUCHSCREEN CONNECTED TO IONA SHS NETWORK 2 GANG BOX AT 48" OFF. ½" CONDUIT STUB UP
- "TS" DEVICES SHALL BE CRESTRON TST-902 WITH WALL MOUNT. TOUCHSCREEN, PROGRAMMED FOR BOTH PARTITIONED ROOM AND OVERALL COMBINED ROOM CONTROL.
- PROVIDE SHURE GOOSENECK MICROPHONE
- "AVL" INPUT STATIONS SHALL BE CRESTRON DM-TX-4KZ-302C. EACH DM-TX-4KZ-302C SHALL BE CONNECTED TO A SHIELDED DECORA FACEPLATE. EC TO INSTALL (2) 2 GANG BOX AT RECEPTACLE HEIGHT.

RACK - OWNER WILL PROVIDE AND INSTALL THE FOLLOWING IN THE A/V RACK (IN CLASSROOM STORAGE 030)
- AV RACK (1) SHALL BE MIDDLE ATLANTIC ERK SERIES. PROVIDE WITH ALL NECESSARY ACCESSORIES.
- CRESTRON DM-MD8X8-CPU3. 8X8 VIDEO MATRIX SWITCHER WITH VIDEO INPUT AND OUTPUT CARDS.
- (2) CRESTRON AIRMEDIA AM-3100 WIRELESS GATEWAYS.
- CRESTRON CP4N CONTROL PROCESSOR.
- CP4N CONNECT RELAY OUTPUT TO SHADES FOR RAISE/LOWER.
- CRESTRON DIGITAL SOUND PROCESSOR TO SUPPORT SPECIFIED MICROPHONES.
- (2) CRESTRON AMPLIFIERS.
- (4) WIRELESS MICROPHONES TO SUPPORT (2) HANDHELD (2) LAPEL. ALL MICROPHONES SHALL BE USED FOR ROOM PA & VC
- CRESTRON UC FOR ZOOM ROOM.

AV4 LARGE DISPLAY, INCLUDE THE FOLLOWING EQUIPMENT:
- "AVL" OWNER TO PROVIDE AND INSTALL CRESTRON HD-TX-101-C-1G-E SERIES DECORA STYLE & C2G USB OVER CAT6 EXTENDER DECORA STYLE. EC TO PROVIDE AND INSTALL 3 GANG BOX AT RECEPTACLE HEIGHT 1" CONDUIT STUB UP
- OWNER TO PROVIDE "AVH" DISPLAY BOX FSR PWB-320-TRK. EC TO INSTALL AT 60" OFF. QUAD RECEPTACLE 1" CONDUIT STUB UP
- "AVH" DISPLAY BOX, OWNER TO PROVIDE AND INSTALL:
  - CRESTRON HD-RX-4K-210-C-E -CONNECTED TO IONA SHS NETWORK
  - CRESTRON RMC4 CONNECTED TO IONA SHS NETWORK
  - CRESTRON AM-3100WF CONNECTED TO IONA SHS NETWORK
- "AVH" OWNER TO PROVIDE AND INSTALL 85" DISPLAY. DISPLAY HEIGHT TBD



2 TECHNOLOGY FIRST LEVEL FLOOR PLAN
1/8" = 1'-0"



1 TECHNOLOGY BASEMENT LEVEL FLOOR PLAN
1/8" = 1'-0"

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KEYPLAN

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TECHNOLOGY BASEMENT/ LOWER LEVEL AND FIRST FLOOR PLANS

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TECHNOLOGY KEY NOTES

T1	MOUNT ALL DEVICES INCLUDING POWER QUAD POWER RECEPTACLE IN SAME POKE-THRU BOX. SIM1 & ND DEVICES SHALL SHARE THE SAME BOX AND FACEPLATE.

AUDIO-VIDEO SYSTEM PRICING NOTES

AV1 INTERACTIVE DISPLAY, INCLUDE THE FOLLOWING EQUIPMENT:
- "AVL" OWNER TO PROVIDE AND INSTALL CRESTRON HD-TX-101-C-1G-E SERIES DECORA STYLE & C2G USB OVER CAT6 EXTENDER DECORA STYLE. EC TO PROVIDE AND INSTALL 3 GANG BOX AT RECEPTACLE HEIGHT 1" CONDUIT STUB UP
- OWNER TO PROVIDE "AVH" DISPLAY BOX FSR PWB-320-TRK. EC TO INSTALL AT 60" OFF. QUAD RECEPTACLE 1" CONDUIT STUB UP
- "AVH" DISPLAY BOX, OWNER TO PROVIDE AND INSTALL:
  - CRESTRON HD-RX-4K-210-C-E -CONNECTED TO IONA SHS NETWORK
  - CRESTRON RMC4 CONNECTED TO IONA SHS NETWORK
  - CRESTRON AM-3100WF CONNECTED TO IONA SHS NETWORK
- "TS" OWNER TO PROVIDE AND INSTALL CRESTRON TSW-770 TOUCHSCREEN CONNECTED TO IONA SHS NETWORK. EC TO PROVIDE AND INSTALL 2 GANG BOX AT 48" OFF 3/4" CONDUIT STUB UP
- "AVH" OWNER TO PROVIDE AND INSTALL INTERACTIVE 65" DISPLAY, LOGITECH MEETUP CAMERA MOUNTED ON DISPLAY. DISPLAY HEIGHT TBD

AV5 LARGE INTERACTIVE DISPLAY, INCLUDE THE FOLLOWING EQUIPMENT:
- "AVL" OWNER TO PROVIDE AND INSTALL CRESTRON HD-TX-101-C-1G-E SERIES DECORA STYLE & C2G USB OVER CAT6 EXTENDER DECORA STYLE. EC TO PROVIDE AND INSTALL 3 GANG BOX AT RECEPTACLE HEIGHT 1" CONDUIT STUB UP
- OWNER TO PROVIDE "AVH" DISPLAY BOX FSR PWB-320-TRK. EC TO INSTALL AT 60" OFF. QUAD RECEPTACLE 1" CONDUIT STUB UP
- "AVH" DISPLAY BOX, OWNER TO PROVIDE AND INSTALL:
  - CRESTRON HD-RX-4K-210-C-E -CONNECTED TO IONA SHS NETWORK
  - CRESTRON RMC4 CONNECTED TO IONA SHS NETWORK
  - CRESTRON AM-3100WF CONNECTED TO IONA SHS NETWORK
- "TS" OWNER TO PROVIDE AND INSTALL CRESTRON TSW-770 TOUCHSCREEN CONNECTED TO IONA SHS NETWORK EC TO PROVIDE AND INSTALL 2 GANG BOX AT 48" OFF 3/4" CONDUIT STUB UP
- "AVH" OWNER TO PROVIDE AND INSTALL INTERACTIVE 75" DISPLAY, LOGITECH MEETUP CAMERA MOUNTED ON DISPLAY. DISPLAY HEIGHT TBD

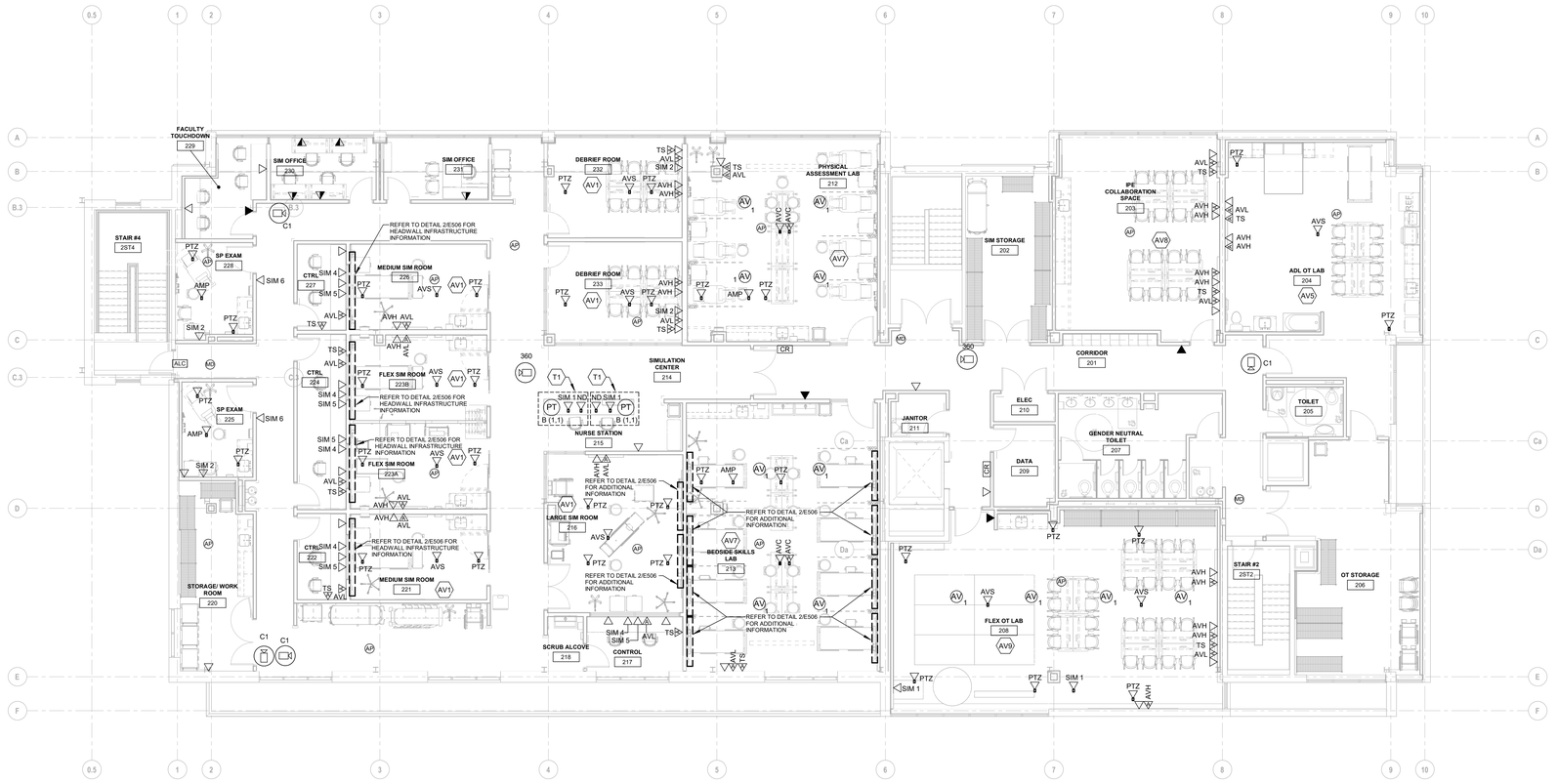
AV7 CEILING PROJECTOR , INCLUDE THE FOLLOWING EQUIPMENT:
- "AVL" OWNER TO PROVIDE AND INSTALL CRESTRON HD-TX-101-C-1G-E SERIES DECORA STYLE & C2G USB OVER CAT6 EXTENDER DECORA STYLE. EC TO PROVIDE AND INSTALL 3 GANG BOX AT RECEPTACLE HEIGHT 1" CONDUIT STUB UP
- "AVC" OWNER TO PROVIDE AND INSTALL CEILING BOX CMS491 CHIEF 1 X 2 AV CEILING ENCLOSURE
- "AVC" OWNER TO PROVIDE AND INSTALL CEILING MOUNTED PROJECTOR
- "PS" OWNER TO PROVIDE CEILING MOUNTED PROJECTION SCREEN. EC TO INSTALL PROJECTION SCREEN, LOCATION TO BE COORDINATED IN FIELD
- "AVC" OWNER TO PROVIDE AND INSTALL AT CEILING:
  - CRESTRON HD-RX-4K-210-C-E -CONNECTED TO IONA SHS NETWORK
  - CRESTRON XAMP-300
  - CRESTRON RMC4 CONNECTED TO IONA SHS NETWORK
  - CRESTRON AM-3100WF CONNECTED TO IONA SHS NETWORK
- "SPK" OWNER TO PROVIDE AND INSTALL SAROS IC6T-W-T.
- "TS" OWNER TO PROVIDE AND INSTALL CRESTRON TSW-770 TOUCHSCREEN CONNECTED TO IONA SHS NETWORK
- MEETING OWL PRO TO BE INSTALLED BY OWNER

AV8 DUAL INTERACTIVE DISPLAY, INCLUDE THE FOLLOWING EQUIPMENT:
- "AVL" OWNER TO PROVIDE AND INSTALL (2) CRESTRON HD-TX-101-C-1G-E SERIES DECORA STYLE & (2) C2G USB OVER CAT6 EXTENDER DECORA STYLE. EC TO PROVIDE AND INSTALL (2) 3 GANG BOX AT RECEPTACLE HEIGHT 1" CONDUIT STUB UP
- OWNER TO PROVIDE "AVH" (2) DISPLAY BOX FSR PWB-320-TRK. EC TO INSTALL (2) AT 60" OFF. QUAD RECEPTACLE 1" CONDUIT STUB UP
- "AVH" DISPLAY BOX, OWNER TO PROVIDE AND INSTALL:
  - (2) CRESTRON HD-RX-4K-210-C-E -CONNECTED TO IONA SHS NETWORK
  - (2) CRESTRON RMC4 CONNECTED TO IONA SHS NETWORK
  - (2) CRESTRON AM-3100WF CONNECTED TO IONA SHS NETWORK
- "TS" OWNER TO PROVIDE AND INSTALL (2) CRESTRON TSW-770 TOUCHSCREEN CONNECTED TO IONA SHS NETWORK EC TO PROVIDE AND INSTALL (2) 2 GANG BOX AT 48" OFF ¾" CONDUIT STUB UP
- "AVH" OWNER TO PROVIDE AND INSTALL (2) INTERACTIVE 65" DISPLAY, (2) LOGITECH MEETUP CAMERA MOUNTED ON DISPLAY. DISPLAY HEIGHT TBD

AV9 SHORT THROW PROJECTOR & 2 WII DISPLAY SYSTEMS , INCLUDE THE FOLLOWING EQUIPMENT:

PROJECTOR
- "AVL" OWNER TO PROVIDE AND INSTALL CRESTRON HD-TX-101-C-1G-E SERIES DECORA STYLE & C2G USB OVER CAT6 EXTENDER DECORA STYLE. EC TO PROVIDE AND INSTALL 3 GANG BOX AT RECEPTACLE HEIGHT 1" CONDUIT STUB UP
- "AVH" EC TO INSTALL 2 GANG BOX WITH 1" STUB UP. HEIGHT TO BE COORDINATED IN THE FIELD
- "AVH" OWNER TO PROVIDE AND INSTALL EPSON 805F
- "AVC" OWNER TO PROVIDE AND INSTALL CEILING BOX CMS491 CHIEF 1 X 2 AV CEILING ENCLOSURE
- "AVC" OWNER TO PROVIDE AND INSTALL AT CEILING:
  - CRESTRON HD-RX-4K-210-C-E -CONNECTED TO IONA SHS NETWORK
  - CRESTRON XAMP-300
  - CRESTRON RMC4 CONNECTED TO IONA SHS NETWORK
  - CRESTRON AM-3100WF CONNECTED TO IONA SHS NETWORK
- "SPK" OWNER TO PROVIDE AND INSTALL SAROS IC6T-W-T.
- "TS" OWNER TO PROVIDE AND INSTALL CRESTRON TSW-770 TOUCHSCREEN CONNECTED TO IONA SHS NETWORK
- SYMBOL WITH O CONNECTED DESIGNATES MEETING OWL PRO INSTALLED BY OWNER IN ROOM

WII DISPLAY
- "AVL" OWNER TO PROVIDE AND INSTALL HDMI CABLE AND FACEPLATE. EC TO PROVIDE AND INSTALL 1 GANG BOX AT RECEPTACLE HEIGHT 1" CONDUIT STUB UP
- "AVH" EC TO INSTALL 2 GANG BOX WITH 1" STUB UP. HEIGHT TO BE COORDINATED IN THE FIELD
- OWNER TO PROVIDE "AVH" (2) DISPLAY BOX FSR PWB-320-TRK. EC TO INSTALL (2) AT 60" OFF. QUAD RECEPTACLE 1" CONDUIT STUB UP



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

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KEYPLAN

Number	Date	Issued For

TECHNOLOGY SECOND FLOOR PLAN

Date: 04/07/2022
Scale: As indicated
Proj. Number: 20287.10
Drawing Number: T102