OUR LADY OF MERCY ACADEMY
LEADERSHIP CENTER

PERMIT SET SUBMISSION
4.26.2024

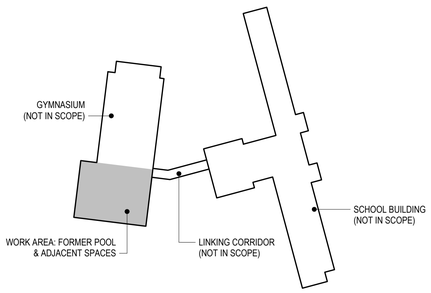
SMPARCHITECTS

PROJECT ARCHITECT
SMP ARCHITECTS
1600 WALNUT ST, 2ND FLOOR
PHILADELPHIA, PA 19103
215 985 4410

STRUCTURAL ENGINEER
LARSEN & LANDIS STRUCTURAL ENGINEERS
11 WEST THOMPSON STREET
PHILADELPHIA, PA 19125
215 232 7207

MEP ENGINEER
SRW ENGINEERING AND ARCHITECTURE
417 NORTH 8TH STREET, SUITE 204
PHILADELPHIA, PA 19123
267 585 2811

KEY PLAN (NTS):



PLAN EXAMINER STAMP AREA:

DRAWING LIST:

GENERAL

CS	COVER SHEET
A0.1	GENERAL NOTES, ABBREVIATIONS, MATERIALS, REFERENCE SYMBOLS
A0.2	BUILDING CODE INFORMATION

ARCHITECTURAL

D2.1	DEMOLITION PLANS
D3.0	DEMOLITION ELEVATIONS
A2.0	PLANS
A2.1	ROOF PLAN
A3.0	EXTERIOR ELEVATIONS AND SECTIONS
A4.0	ENLARGED PLANS & INTERIOR ELEVATIONS
A5.0	INTERIOR ELEVATIONS
A5.1	INTERIOR ELEVATIONS
A6.0	REFLECTED CEILING PLANS
A6.1	ENLARGED REFLECTED CEILING PLANS & DETAILS
A7.0	VERTICAL CIRCULATION PLANS AND SECTIONS
A7.1	MEZZANINE AND STAIR DETAILS
A7.2	MEZZANINE AND STAIR DETAILS
A7.3	MEZZANINE AND STAIR DETAILS
A9.0	TYPES AND SCHEDULES
A9.1	TYPES AND SCHEDULES
A10.0	INTERIOR DETAILS
A10.1	INTERIOR DETAILS
A11.0	SIGNAGE

STRUCTURAL

S0.0	NOTES & ABBREVIATIONS
S0.1	SCHEDULES
S1.0	FRAMING PLANS
S1.1	FRAMING PLANS
S2.0	SECTIONS & DETAILS
S2.1	SECTIONS & DETAILS

MECHANICAL

M0.1	MECHANICAL GENERAL NOTES
MD1.0	MECHANICAL DEMOLITION PLAN
MD1.1	MECHANICAL DEMOLITION ROOF PLAN
M1.0	MECHANICAL RCP'S
M1.1	MECHANICAL ROOF PLAN
M1.2	MECHANICAL SECTIONS
M3.0	MECHANICAL DETAILS
M4.0	MECHANICAL SCHEDULES

ELECTRICAL

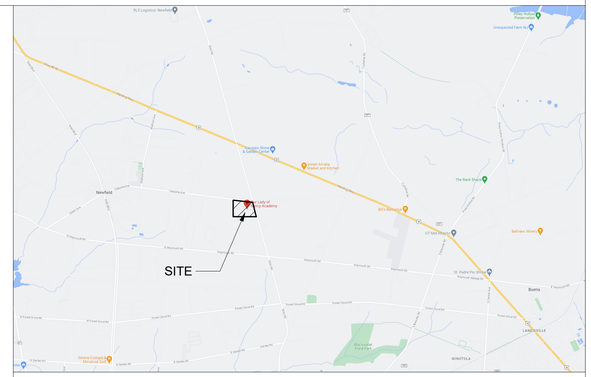
E0.1	ELECTRICAL GENERAL NOTES
ED1.0	ELECTRICAL DEMOLITION PLANS
E1.0	ELECTRICAL FIRST & SECOND FLOOR POWER PLANS
E1.1	ELECTRICAL ROOF PLAN
E2.0	ELECTRICAL FIRST & SECOND FLOOR LIGHTING PLANS
E3.0	ELECTRICAL RISER DIAGRAM
E4.0	ELECTRICAL SCHEDULES
E5.0	ELECTRICAL DETAILS

PLUMBING

P0.1	PLUMBING GENERAL NOTES
PD1.0	PLUMBING DEMOLITION PLANS
P1.0	PLUMBING PLANS
P1.1	PLUMBING PLANS
P2.0	PLUMBING RISERS
P3.0	PLUMBING DETAILS
P3.1	PLUMBING DETAILS

FIRE ALARM

FA0.1	FIRE ALARM GENERAL NOTES & SYMBOL LIST
FA1.0	FIRST & SECOND FLOOR FIRE ALARM PLANS
FA3.0	FIRE ALARM RISER DIAGRAM AND MATRIX



PROJECT LOCATION
Our Lady of Mercy Academy
1001 Main Road, Newfield, New Jersey 08344

SEAL:

ARCHITECT'S PROJECT NUMBER: **786**

GENERAL NOTES:

1. DO NOT SCALE DRAWINGS.

2. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO THE START OF CONSTRUCTION.

3. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, CODES AND ORDINANCES.

4. THE CONTRACTOR SHALL CONFIRM, LOCATE AND COORDINATE WORK WITH HIDDEN MECHANICAL, PLUMBING AND ELECTRICAL CONDITIONS.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING BUILDING, SITE AND EQUIPMENT DURING CONSTRUCTION, INCLUDING DAMAGE FROM THE ELEMENTS. THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE EXISTING BUILDING DURING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE IMMEDIATELY AND TO THE SATISFACTION OF THE OWNER.

6. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS ON THE JOB SITE. IF EXISTING CONDITIONS DO NOT PERMIT INSTALLATION OF WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, NOTIFY THE ARCHITECT AND PROVIDE A SKETCH OF THE CONDITION.

7. DIMENSIONS ARE TO FINISH FACE OF WALL UNLESS NOTED OTHERWISE.

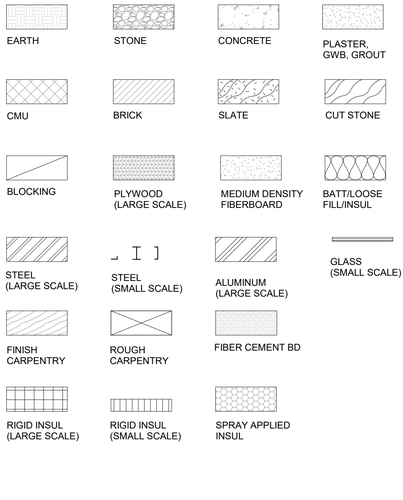
8. THE CONTRACTOR SHALL COORDINATE LOCATION AND SIZE OF ALL OPENINGS WITH ALL TRADES PRIOR TO INSTALLATION.

9. DETAILS SHOWN ARE INTENDED FOR SPECIFIC LOCATIONS AND CONDITIONS. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT SIMILAR CONDITIONS AND SHALL BE CONSIDERED PART OF THE WORK.

10. UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS AS BEING NIC, ALL ITEMS, MATERIALS, ETC. AND INSTALLATION OF SAME ARE A PART OF THE CONTRACT WORK.

11. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SLEEVING WORK, UNO. COORDINATE LOCATION AND SIZE OF ALL OPENINGS, INTERIOR AND/OR EXTERIOR WITH ALL TRADES PRIOR TO INSTALLATION.

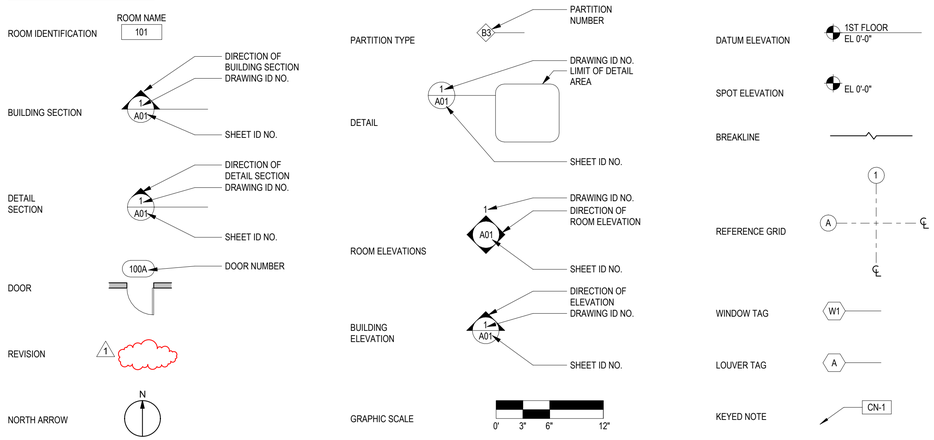
MATERIAL SYMBOLS:



ABBREVIATIONS:

A	
A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABV	ABOVE
ACT	ACOUSTIC CEILING TILE
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
ALCW	ALUMINUM CURTAINWALL
AL(ALUM)	ALUMINUM
ALSF	ALUMINUM STOREFRONT
ALW	ALUMINUM WINDOW
ANOD	ANODIZED
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
B	
B&B	BOARD AND BATTEN
BCAB	BASE CABINET
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BLW	BELOW
B.O.	BOTTOM OF
BC	BROADLOOM CARPET
BM	BEAM
BRK	BRICK
BTW	BETWEEN
C	
CAB	CABINET
CB	CEMENTBOARD
CERT	CERTIFIED
CFMF	COLD FORMED METAL FRAMING
CJ	CONSTRUCTION/CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR/ CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPOSITE
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
COR	CORRUGATED
CPT	CARPET TILE
CT	CERAMIC TILE
CUH	CABINET UNIT HEATER
CW	CURTAINWALL
D	
DEMO	DEMOLISH/DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG(S)	DRAWING(S)
E	
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EP	ELECTRICAL PANEL
EPX	EPOXY
EQ	EQUAL
EQPM	EQUIPMENT
ES	EXPOSED STRUCTURE
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXP	EXPOSED
EXG	EXISTING
EXT	EXTERIOR
F	
FA	FIRE ALARM
FCB	FIBER CEMENT BOARD
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FFE	FINISHED FLOOR ELEVATION
FIN	FINISH(ED)
FLG	FLASHING
FLR	FLOOR(ING)
FND	FOUNDATION
F.O.	FACE OF
FP	FILLER PANEL
FT	FOOT (FEET)
FTG	FOOTING
FTR	FIN TUBE RADIATOR
G	
GA	GAUGE
GALV	GALVANIZED
GF	GROUND FACE
GLAZ	GLAZED, GLAZING, GLASS
GRG	GLASS REINFORCED GYPSUM
GWB	GYPSUM WALLBOARD
H	
HDPE	HIGH DENSITY POLYETHYLENE
HM	HOLLOW METAL
HOR	HORIZONTAL
HR	HOUR
HRWD	HARDWOOD
HSS	HOLLOW STEEL SECTION
HT	HEIGHT
HVAC	HEAVING/VENTILATION/AIR CONDITIONING
HWH	HOT WATER HEATER
I	
IGU	INSULATED GLAZING UNIT
INCL	INCLUDING/INCLUDED
INFO	INFORMATION
INSUL	INSULATED, INSULATION
INT	INTERIOR
J	
JT	JOINT
L	
LAM	LAMINATED
LF	LINEAR FEET
LG	LONG
LIN	LINOLEUM
LLV	LONG LEG VERTICAL
LTL	LINTEL
LT	LIGHT
LOUV	LOUVER
M	
MAS	MASONRY
MAS DIM	MASONRY DIMENSION
MATL	MATERIAL
MAX	MAXIMUIM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
M.O.	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
MULL	MULLION
N	
N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OFE	OWNER FURNISHED EQUIPMENT
OH	OPPOSITE HAND
OPP	OPPOSITE
OPG	OPENING
OSB	ORIENTED STRAND BOARD
OTLN	OUTLINE
P	
PAC	PRECAST ARCHITECTURAL CONCRETE
PERF	PERFORATED
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PNL	PANEL
PNLG	PANELING
PNT	PAINT(ED)
POL	POLISHED
PROJ	PROJECTION
P.T.	PRESSURE TREATED
PT	PORCELAIN TILE
PTN	PARTITION
PWD	PLYWOOD
PV	PIPE VENT
R	
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE
RBT	RUBBER STAIR TREAD
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFER: REFERENCE
REQ'D	REQUIRED
REV	REVISION, REVISE(D)
RSF	RESILIENT FLOORING
RT	RESILIENT TILE FLOORING
RM	ROOM
R.O.	ROUGH OPENING
RTF	RESILIENT RUBBER TILE FLOORING
RWC	RAINWATER CONDUCTOR
S	
S	SOUTH
SA	SUPPLY AIR
SBC	SINK BASE CABINET
SBO	SUPPLIED BY OTHERS
SFI	SPRAY FOAM INSULATION
SGT	STRUCTURAL GLAZED TILE
SIM	SIMILAR
SIP	STRUCTURAL INSULATED PANEL
SL	SLOPED/SLOPE
SOG	SLAB ON GRADE
SSTL	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STN	STAIN(ED)
STRUC	STRUCTURAL
SUSP	SUSPENDED
T	
TER	TERRAZZO
TF	TRANSPARENT FINISH
THK	THICKNESS
TLT	TOILET
TPTN	TOILET PARTITION
T.O.	TOP OF
TYP	TYPICAL
T&G	TONGUE AND GROOVE
U	
UNO	UNLESS NOTED OTHERWISE
V	
VAR	VARIES/VARIOUS
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
W	
W	WEST
W/	WITH
W/O	WITHOUT
WB	WALL BASE
WC	WATER CLOSET
WCAB	WALL CABINET
WD	WOOD
WDP	WOOD PANEL
WF	WIDE FLANGE
WIN	WINDOW
WOM	WALK OFF MAT
WSCT	WAINSCOT
X	
XPS	EXTRUDED POLYSTYRENE

REFERENCE SYMBOLS:



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LEADERSHIP CENTER

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No.	Date	Revisions

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Drawn:	Checked:	Approved:
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Job Number: 786
File:

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4.26.2024

Drawing Set:
PERMIT SET SUBMISSION

Drawing Title:
GENERAL NOTES, ABBREVIATIONS, MATERIALS, REFERENCE SYMBOLS

Drawing Number:
A0.1

PROJECT INFORMATION:
OLMA LEADERSHIP CENTER
OUR LADY OF MERCY ACADEMY
1001 MAIN ROAD, NEWFIELD, NEW JERSEY 08344

CODES REFERENCED:
NEW JERSEY ADMINISTRATIVE CODE TITLE 5, CHAPTER 23, SUBCHAPTER 6: REHABILITATION SUBCODE
NEW JERSEY BUILDING CODE 2021 (IBC 2021)
NEW JERSEY ACCESSIBILITY CODE 2017 (A117.1, 2017)
NEW JERSEY FIRE CODE 2016 (IFC 2015)
NEW JERSEY PLUMBING CODE 2021 (NSPC 2021)
NEW JERSEY ENERGY CODE 2021 (IECC 2021)

CODE SUMMARY (ALL REFERENCES TO IBC UNO):

NJAC: CLASSIFICATION OF WORK
PROPOSED WORK IS **ALTERATION** (5:23-6.3)
TOTAL WORK AREA: **10,836SF**

CHAPTER 3: OCCUPANCY CLASSIFICATION & USE
NO PROPOSED CHANGES TO OCCUPANCY
CLASSIFICATION & USE: **EDUCATIONAL GROUP E**

CHAPTER 5: GENERAL BUILDING HEIGHTS & AREAS
NO PROPOSED CHANGES TO HEIGHT OR AREA
505.2.1 MEZZANINES AREA LIMITATION
MEZZANINE AREA SHALL NOT BE GREATER THAN ONE-THIRD OF THE FLOOR AREA OF THAT ROOM OR SPACE IN WHICH THEY ARE LOCATED.
MEZZANINE AREA: 1,144SF (TOTAL)
MULTIPURPOSE ROOM ARA: 3,600SF
MEZZ AREA = 31%
505.2.3 MEZZANINE OPENNESS
MEZZANINE SHALL BE OPEN AND UNOBSTRUCTED TO THE ROOM.
EXCEPTION 2: A MEZZANINE HAVING (2) OR MORE EXITS OR ACCESS TO EXITS IS NOT REQUIRED TO BE OPEN TO THE ROOM IN WHICH THE MEZZANINE IS LOCATED.

CHAPTER 6: TYPES OF CONSTRUCTION
CONSTRUCTION TYPE: **II-B, NON-COMBUSTIBLE, UN-SPRINKLERED**
ALLOWABLE BUILDING HEIGHT: 55'
ACTUAL BUILDING HEIGHT: 26'
ALLOWABLE STORIES: 2
ACTUAL STORIES: 2
ALLOWABLE AREA: 14,500SF + FRONTAGE INCREASE
FRONTAGE INCREASE CALCULATION:
Aa = At + (NS x If)
WHERE: Aa=AREA PER STORY ALLOWED; At=AREA LISTED IN TABLE 506.2; NS=AREA LISTED IN TABLE 506.2 UNDER ROW NS; If=FRONTAGE INCREASE FACTOR AS LISTED IN TABLE 506.3.3
Aa = 14500 + (14500 x .5) = 21,750SF PER FLOOR
ACTUAL AREA: 19,322SF 1ST FLR; 5,402SF 2ND FLR

FIRE RESISTANCE RATINGS (TABLE 601)

PRIMARY STRUCTURAL FRAME	0 HOURS
BEARING WALLS	0 HOURS
NON BEARING WALLS	0 HOURS
FLOOR CONSTRUCTION	0 HOURS
ROOF CONSTRUCTION	0 HOURS

CHAPTER 7: FIRE AND SMOKE PROTECTION FEATURES

706.4 FIRE WALL RATING	3 HOURS
707.3.10 FIRE BARRIER RATING	2 HOURS
708.3 FIRE PARTITION RATING	1 HOUR
713.4 SHAFT RATINGS	1 HOUR

CHAPTER 8: INTERIOR FINISHES
INTERIOR WALL & CEILING FINISHES BASED ON OCCUPANCY (TABLE 803.13, OCCUPANCY GROUP A-3 GOVERNS)

INTERIOR EXIT STAIRWAYS / EXIT PASSAGEWAYS	A
CORRIDORS/ENCLOSURE FOR EXIT ACCESS STAIRWAYS	B
ROOMS AND ENCLOSED SPACES	C

CHAPTER 9: FIRE PROTECTION AND LIFE SAFETY SYSTEMS
BUILDING IS UNSPRINKLERED.
906 PORTABLE FIRE EXTINGUISHERS
906.1 WHERE REQUIRED, EXCEPTION 2:
EACH CLASSROOM TO BE PROVIDED WITH A PORTABLE FIRE EXTINGUISHER HAVING A MINIMUM RATING OF 2-A:20-B:C.

CHAPTER 10: MEANS OF EGRESS
OCCUPANT LOAD: **SEE TABLES BELOW**
SPACES WITH ONE EXIT (TABLE 1006.2.1)
OCCUAPNCY E
MAX OCCUPANCY: **49 PERSONS**
MAX COMMON PATH OF TRAVEL: **75'**
EXIT AND EXIT ACCESS DOORWAY CONFIGURATION (1007)
EXITS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM
EGRESS THROUGH INTERVENING SPACES (1016.2)
EGRESS MAY PASS THROUGH SPACES WHICH ARE ACCESSORY TO ONE ANOTHER
AN EXIT ACCESS SHALL NOT PASS THROUGH A ROOM THAT CAN BE LOCKED TO PREVENT EGRESS
EXIT ACCESS DISTANCE (TABLE 1017.2)
MAX TRAVEL DISTANCE **200'** (OCCUPANCY E, UNSPRINKLERED)
CORRIDOR FIRE-RESISTANCE RATING (TABLE 1020.2)
1 HOUR (GROUP E, UNSPRINKLERED)
DEAD-END CORRIDORS (1020.4)
20' MAX ALLOWED; ACTUAL: 0' (NO DEAD-END CORRIDORS IN PROJECT)

PLUMBING FIXTURE COUNTS & CODE SUMMARY (ALL REFERENCES TO NJ PLUMBING CODE):

PLUMBING FIXTURE OCCUPANT LOAD: **310**
(TWO-THIRDS OF LIFE SAFETY OCCUPANT LOAD, PER 7.21.2, b.)
MENS PLUMBING FIXTURE OCCUPANT LOAD: 25% **78**
WOMENS PLUMBING FIXTURE OCCPANT LOAD: 75% **233**

PLUMBING FIXTURE COUNTS (TABLE 7.21.1)

MENS WATER CLOSET COUNT	**3***
WOMENS WATER CLOSET COUNT	**6**
MENS LAVATORY COUNT	**3***
WOMENS LAVATORY COUNT	**6**
SERVICE SINKS PER FLOOR	**1****
DRINKING FOUNTAINS	**3**

* MENS COUNT INCLUDES (3) GENDER NEUTRAL SINGLE OCCUPANT RESTROOMS.
** TABLE 7.21.1 NOTE (21): SERVICE SINKS SHALL BE PERMITTED TO SERVE TWO ADJACENT FLOORS (ONE ABOVE AND ONE BELOW) WHERE THERE IS SERVICE ELEVATOR ACCESS.

NOTES:
1. PLUMBING FIXTURE CALCULATIONS ONLY ACCOUNT FOR WORK AREA. EXISTING GYMNASIUM IS SERVICED BY EXISTING RESTROOMS TO REMAIN.
2. PLUMBING FIXTURE CALCULATIONS ACCOUNT FOR FIXTURES OVER BOTH FLOORS, AS ALLOWED PER 7.21.3:
A. ACCESS TO FIXTURES, a: IN MULTI-STORY BUILDINGS, ACCESSIBILITY TO THE REUQIRED FIXTURES SHALL NOT EXCEED ONE STORY.

OCCUPANT LOAD

OCCUPANCY CLASSIFICATION	ROOM NUMBER	ROOM NAME	ROOM AREA	FUNCTION (TABLE 1004.5)	SF/ OCCUPANT	OCCUPANT LOAD
LEVEL 1						
EDUCATIONAL GROUP E	103	CLASSROOM	814 SF	Educational - Classroom area	20 NET	41
EDUCATIONAL GROUP E	106	MULTIPURPOSE ROOM	3600 SF	Assembly without fixed seats - Unconcentrated (tables and chairs)	15 NET	240
EDUCATIONAL GROUP E	107	STORAGE	240 SF	Accessory storage areas, mechanical equipment room	300 GROSS	1
EDUCATIONAL GROUP E	114	STORAGE	90 SF	Accessory storage areas, mechanical equipment room	300 GROSS	1
EDUCATIONAL GROUP E	MULTIPLE	OFFICE SUITE (110, 111, 112, 113)	608 SF	Business Areas	150 GROSS	5
						288
LEVEL 2						
EDUCATIONAL GROUP E	203	STUDY	315 SF	Educational - Classroom area	20 NET	16
EDUCATIONAL GROUP E	204	FLEX / LOUNGE	775 SF	Assembly without fixed seats - Unconcentrated (tables and chairs)	15 NET	52
EDUCATIONAL GROUP E	205	CONFERENCE	369 SF	Assembly without fixed seats - Unconcentrated (tables and chairs)	15 NET	25
EDUCATIONAL GROUP E	207	CLASSROOM	1139 SF	Educational - Classroom area	20 NET	57
EDUCATIONAL GROUP E	209	CLASSROOM	456 SF	Educational - Classroom area	20 NET	23
EDUCATIONAL GROUP E	210	MECH	522 SF	Accessory storage areas, mechanical equipment room	300 GROSS	2
EDUCATIONAL GROUP E	211	MECH	522 SF	Accessory storage areas, mechanical equipment room	300 GROSS	2
						177
TOTAL BUILDING OCCUPANT LOAD						465

CODE PLAN KEY

DOOR / CORRIDOR / STAIR CAPACITY

	TYPE	MARK
EXIT / STAIR / CORRIDOR WIDTH	EW	-
CODE WIDTH FACTOR	FC	0.2/0.3
ALLOWABLE CAPACITY	ALLOW	-
ACTUAL CAPACITY	ACTUAL	-

OCCUPANCY

SYMBOLS

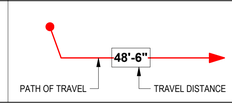
EXIT SIGN. SEE A6 SERIES FOR EXACT LOCATION AND DIRECTION.

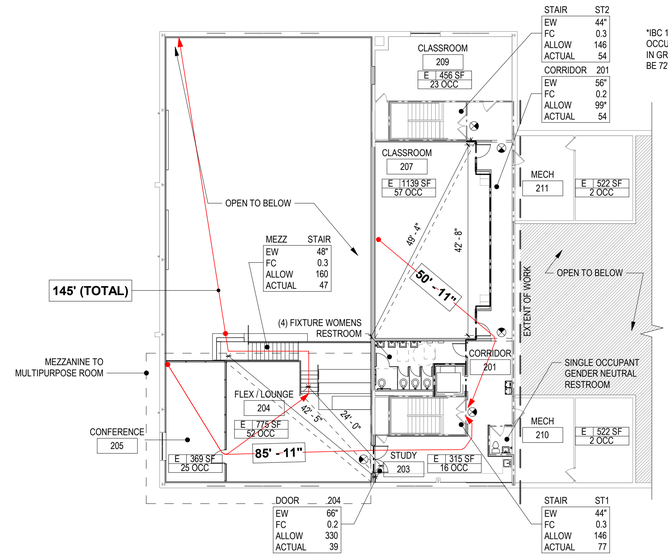
RATED WALLS

1 HOUR FIRE PARTITION (FIRE BARRIER AT SHAFTS)

EXG 1 HOUR FIRE PARTITION (FIRE BARRIER AT SHAFTS)

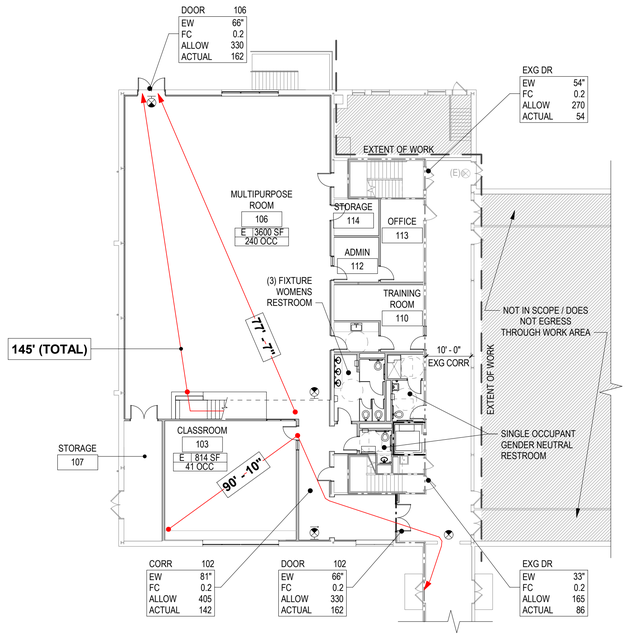
TRAVEL DISTANCE TO NEAREST EXIT





2 A0.2 LIFE SAFETY PLAN - LEVEL 2
1/16" = 1'-0"

*IBC 1020.3: CORRIDORS HAVING AN OCCUPANT LOAD OF 100 OR MORE IN GROUP E OCCUPANCIES ARE TO BE 72" MIN WIDTH.



1 A0.2 LIFE SAFETY PLAN - LEVEL 1
1/16" = 1'-0"

NOTE: PROVIDE (1) FIRE EXTINGUISHER IN EACH CLASSROOM WITHIN WORK AREA (103, 207, 209).

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LEADERSHIP CENTER

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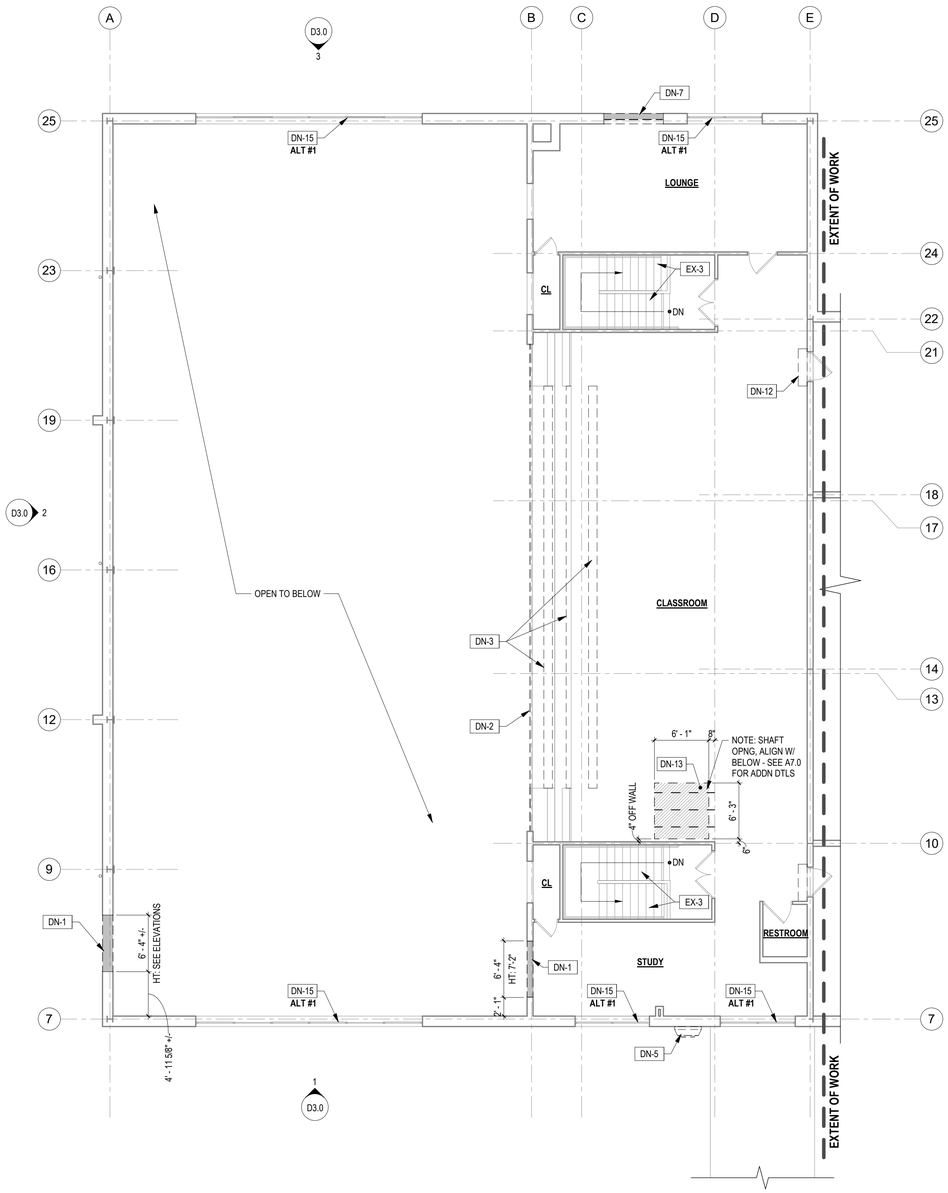
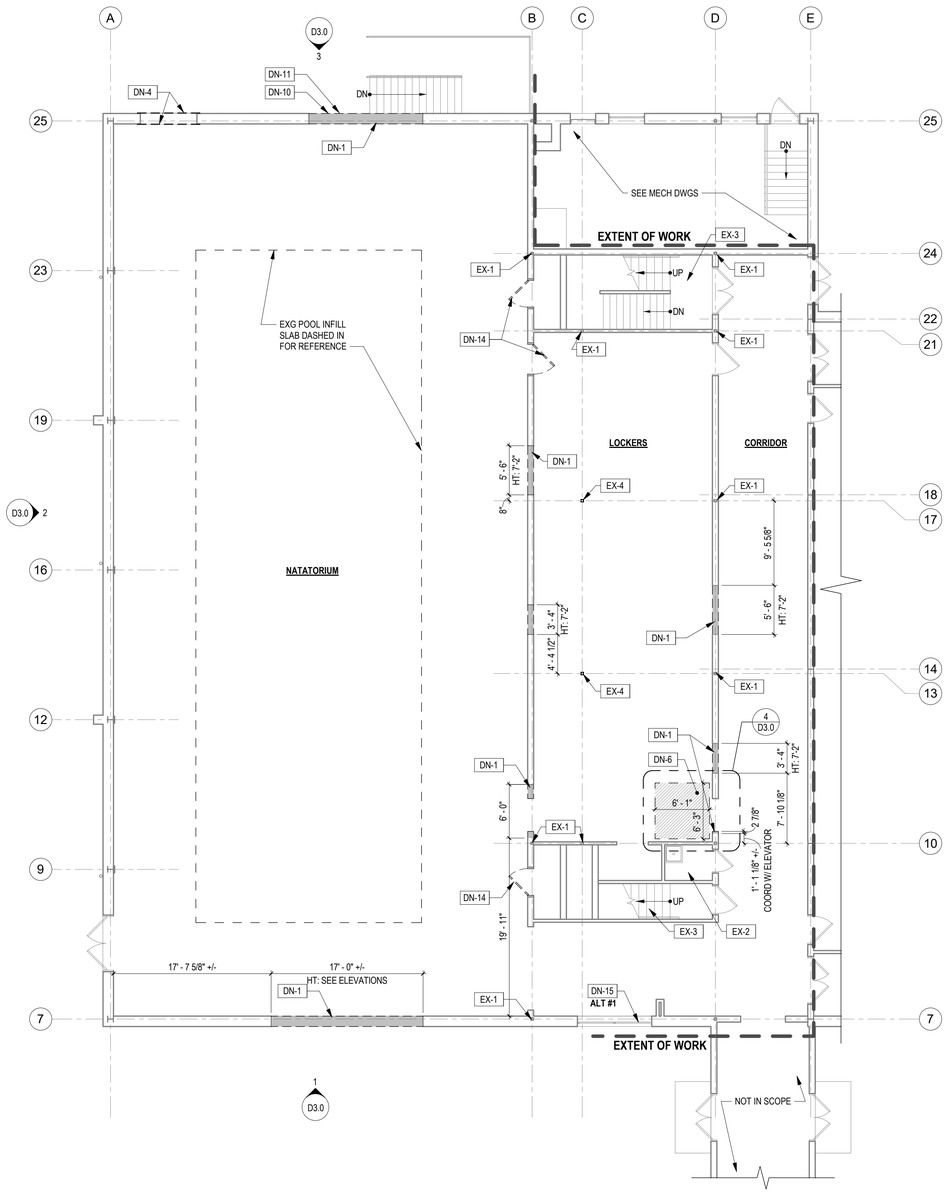
Drawing Title: BUILDING CODE INFORMATION

Drawing Number: A0.2



2 D2.1 DEMOLITION - SECOND FLOOR

1/8" = 1'-0"



1 D2.1 DEMOLITION - FIRST FLOOR

1/8" = 1'-0"

KEYED DEMOLITION NOTES

- DN-1 REMOVE EXISTING WALL TO EXTENT INDICATED. REMOVE FULL HEIGHT OF WALL UNLESS HEIGHT (HT) INDICATED.
- DN-2 REMOVE EXISTING METAL RAILING.
- DN-3 REMOVE EXISTING BENCHES. TIERED CONCRETE BLEACHERS TO REMAIN CONCEALED WITHIN NEW CONSTRUCTION - SEE STRUCT DWGS.
- DN-4 REMOVE EXISTING TEMPORARY CLOSURE AT EXISTING OPENING. PREPARE OPENING FOR NEW DOOR.
- DN-5 REMOVE EXISTING THRU-WALL EXHAUST. SEE MECH DWGS. PREPARE OPENING FOR NEW EXHAUST IN SAME LOCAITON AND BRICK INFILL.
- DN-6 REMOVE EXISTING SLAB ON GRADE AS REQ'D FOR PROPOSED ELEVATOR PIT. SEE STRUCTURAL DRAWINGS.
- DN-7 REMOVE EXISTING MECH LOUVER & PREPARE OPNG FOR PROPOSED WORK. REMOVE PORTION OF WALL BELOW AS REQ'D FOR PROPOSED WORK. SEE ELEVATIONS.

KEYED DEMOLITION NOTES

- DN-8 REMOVE EXISTING MECH LOUVER.
- DN-9 REMOVE FINISH SIDIING AND ROOF COPING AS REQUIRED TO ALLOW FOR INSTALL OF NEW SEAMLESS SIDING AT LOCATION OF REMOVED MECH LOUVER.
- DN-10 RE-ROUTE EXISTING CONDUIT AT PROPOSED WINDOW LOCATION AS REQUIRED.
- DN-11 REMOVE EXISTING WALL-MOUNTED LIGHT FIXTURE.
- DN-12 REMOVE EXG 5" CONC STEP.
- DN-13 REMOVE EXG 2ND FLR SLAB, DECK, AND SUPPORTING STL FRAMING (APPROX. 3 TRUSSES TO BE HEADED OFF). SEE STRUC DWGS.
- DN-14 REMOVE EXISTING DOOR. FRAME TO REMAIN FOR NEW DOOR IN SAME LOCATION.
- DN-15 UNDER ACCEPTANCE OF ALTERNATE #1 ONLY: REMOVE EXISTING WINDOW AND FRAME TO EXTENT OF EXG MASONRY OPENING.

KEYED EXISTING NOTES

- EX-1 EXISTING STL TUBE COLUMN EMBEDDED IN CMU WALL TO REMAIN.
- EX-2 NO CHANGES TO EXISTING JANITOR'S CLOSET.
- EX-3 EXISTING STAIRS, SHAFT, AND RAILINGS TO REMAIN.
- EX-4 EXISTING STL TUBE COLUMN TO REMAIN.

DEMOLITION KEY:

EXISTING CONSTRUCTION TO REMAIN

ITEMS TO BE DEMOLISHED

GENERAL DEMOLITION NOTES:

1. REMOVE ALL EXISTING FINISH CEILINGS WITHIN WORK AREA, INCLUDING GRID, HANGERS, LIGHT FIXTURES, DEVICES, ETC UNO.
2. REMOVE ALL EXISTING FLOOR FINISHES DOWN TO EXISTING SLAB WITHIN WORK AREA UNO.
3. REMOVE ALL EXISTING CASEWORK INCLUDING WALL-MOUNTED COUNTERS, BENCHES, AND LOCKERS WITHIN WORK AREA UNO.
4. WALLS NOTED TO BE DEMOLISHED ARE TO BE REMOVED IN ENTIRETY TO UNDERSIDE OF DECK ABOVE U.N.O.
5. HEIGHTS OF WALL TO BE DEMOLISHED PROVIDED FOR GENERAL REFERENCE ONLY. COORDINATE WITH STUCTURAL REQUIREMENTS AND NEW WORK.
6. REFER TO MEP & STRUCT DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE.
7. COORDINATE EXTERIOR WALL DEMOLITION BETWEEN DEMOLITION PLANS AND EXTERIOR DEMOLITION ELEVATIONS.

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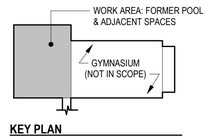

KEY PLAN

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AB	MS	TW

Job Number: 786
File:

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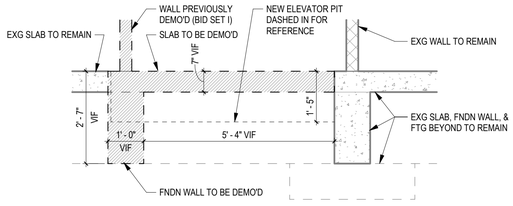
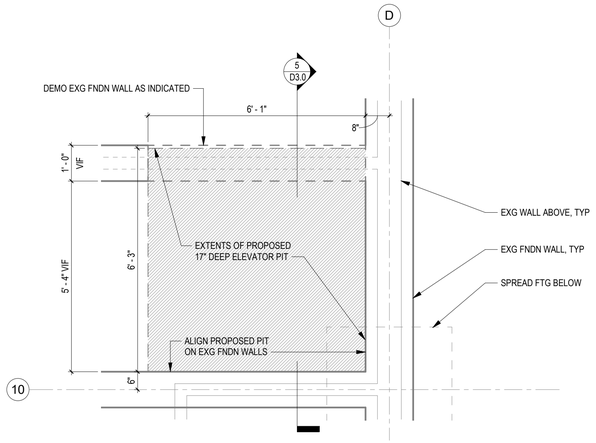
Drawing Set: PERMIT SET SUBMISSION

Drawing Title: DEMOLITION PLANS

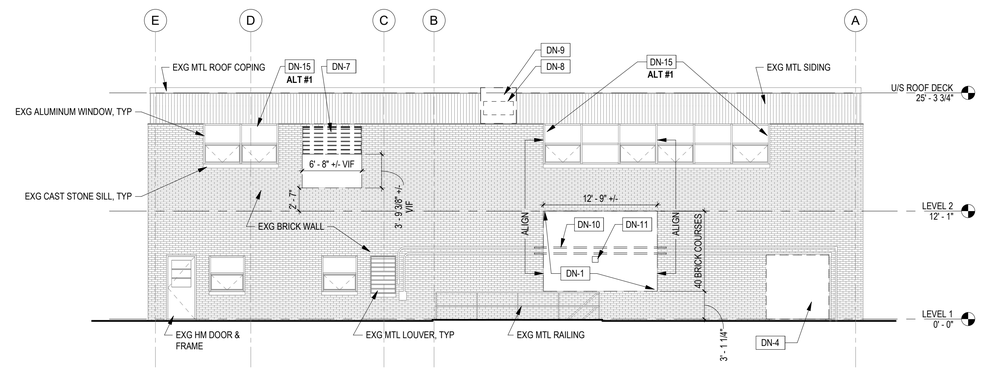
Drawing Number: D2.1



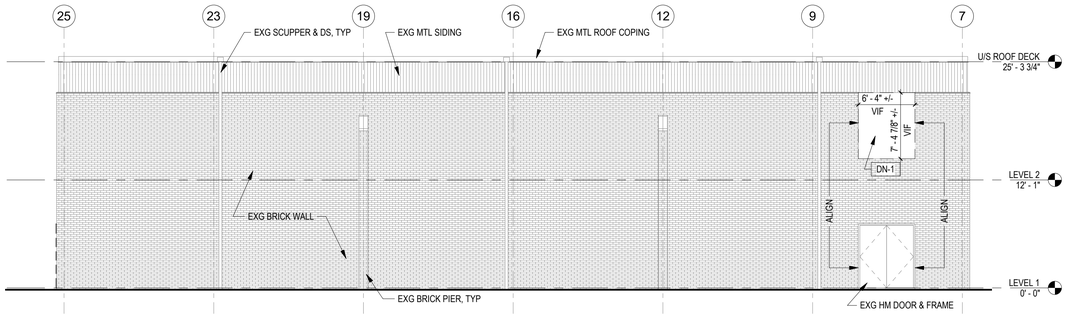
5 D3.0 DEMOLITION SECTION AT PROPOSED ELEVATOR PIT
1/2" = 1'-0"



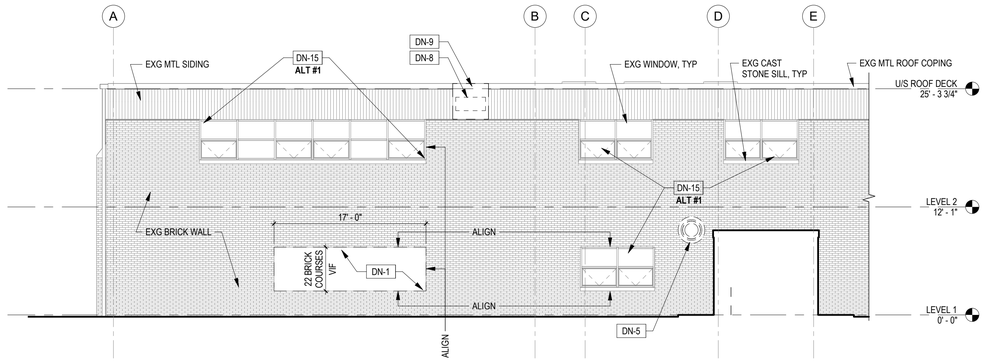
4 D3.0 ENLARGED BELOW SLAB DEMOLITION AT PROPOSED ELEVATOR PIT
1/2" = 1'-0"



3 D3.0 WEST DEMOLITION ELEVATION
1/8" = 1'-0"



2 D3.0 SOUTH DEMOLITION ELEVATION
1/8" = 1'-0"



1 D3.0 EAST DEMOLITION ELEVATION
1/8" = 1'-0"

KEYED DEMOLITION NOTES

DN-1 REMOVE EXISTING WALL TO EXTENT INDICATED. REMOVE FULL HEIGHT OF WALL UNLESS HEIGHT (HT) INDICATED.
DN-2 REMOVE EXISTING METAL RAILING.
DN-3 REMOVE EXISTING BENCHES. TIERED CONCRETE BLEACHERS TO REMAIN CONCEALED WITHIN NEW CONSTRUCTION - SEE STRUCT DWGS.
DN-4 REMOVE EXISTING TEMPORARY CLOSURE AT EXISTING OPENING. PREPARE OPENING FOR NEW DOOR.
DN-5 REMOVE EXISTING THRU-WALL EXHAUST. SEE MECH DWGS. PREPARE OPENING FOR NEW EXHAUST IN SAME LOCAITON AND BRICK INFILL.
DN-6 REMOVE EXISTING SLAB ON GRADE AS REQ'D FOR PROPOSED ELEVATOR PIT. SEE STRUCTURAL DRAWINGS.
DN-7 REMOVE EXISTING MECH LOUVER & PREPARE OPNG FOR PROPOSED WORK. REMOVE PORTION OF WALL BELOW AS REQ'D FOR PROPOSED WORK. SEE ELEVATIONS.

KEYED DEMOLITION NOTES

DN-8 REMOVE EXISTING MECH LOUVER.
DN-9 REMOVE FINISH SIDIING AND ROOF COPING AS REQUIRED TO ALLOW FOR INSTALL OF NEW SEAMLESS SIDING AT LOCATION OF REMOVED MECH LOUVER.
DN-10 RE-ROUTE EXISTING CONDUIT AT PROPOSED WINDOW LOCATION AS REQUIRED.
DN-11 REMOVE EXISTING WALL-MOUNTED LIGHT FIXTURE.
DN-12 REMOVE EXG 5" CONC STEP.
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DN-14 REMOVE EXISTING DOOR. FRAME TO REMAIN FOR NEW DOOR IN SAME LOCATION.
DN-15 UNDER ACCEPTANCE OF ALTERNATE #1 ONLY: REMOVE EXISTING WINDOW AND FRAME TO EXTENT OF EXG MASONRY OPENING.

KEYED EXISTING NOTES

EX-1 EXISTING STL TUBE COLUMN EMBEDDED IN CMU WALL TO REMAIN.
EX-2 NO CHANGES TO EXISTING JANITOR'S CLOSET.
EX-3 EXISITNG STAIRS, SHAFT, AND RAILINGS TO REMAIN.
EX-4 EXISTING STL TUBE COLUMN TO REMAIN.

DEMOLITION KEY:

EXISTING CONSTRUCTION TO REMAIN

ITEMS TO BE DEMOLISHED

GENERAL DEMOLITION NOTES:

1. REMOVE ALL EXISTING FINISH CEILINGS WITHIN WORK AREA, INCLUDING GRID, HANGERS, LIGHT FIXTURES, DEVICES, ETC UNO.
2. REMOVE ALL EXISTING FLOOR FINISHES DOWN TO EXISTING SLAB WITHIN WORK AREA UNO.
3. REMOVE ALL EXISTING CASEWORK INCLUDING WALL-MOUNTED COUNTERS, BENCHES, AND LOCKERS WITHIN WORK AREA UNO.
4. WALLS NOTED TO BE DEMOLISHED ARE TO BE REMOVED IN ENTIRETY TO UNDERSIDE OF DECK ABOVE U.N.O.
5. HEIGHTS OF WALL TO BE DEMOLISHED PROVIDED FOR GENERAL REFERENCE ONLY. COORDINATE WITH STUCTURAL REQUIREMENTS AND NEW WORK.
6. REFER TO MEP & STRUCT DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE.
7. COORDINATE EXTERIOR WALL DEMOLITION BETWEEN DEMOLITION PLANS AND EXTERIOR DEMOLITION ELEVATIONS.

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No.	Date	Revisions

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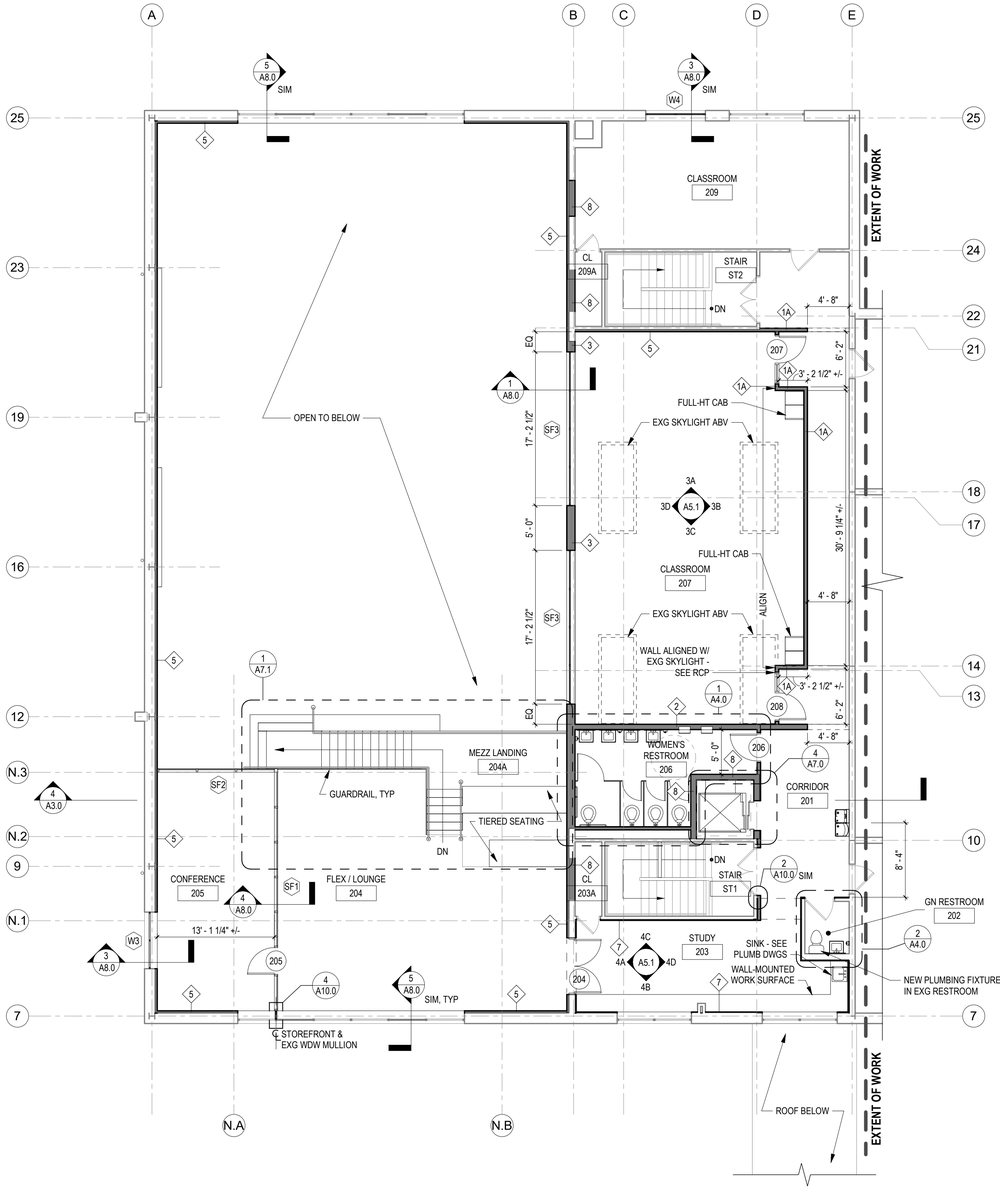
Job Number: 786
File:

Date: 4.26.2024

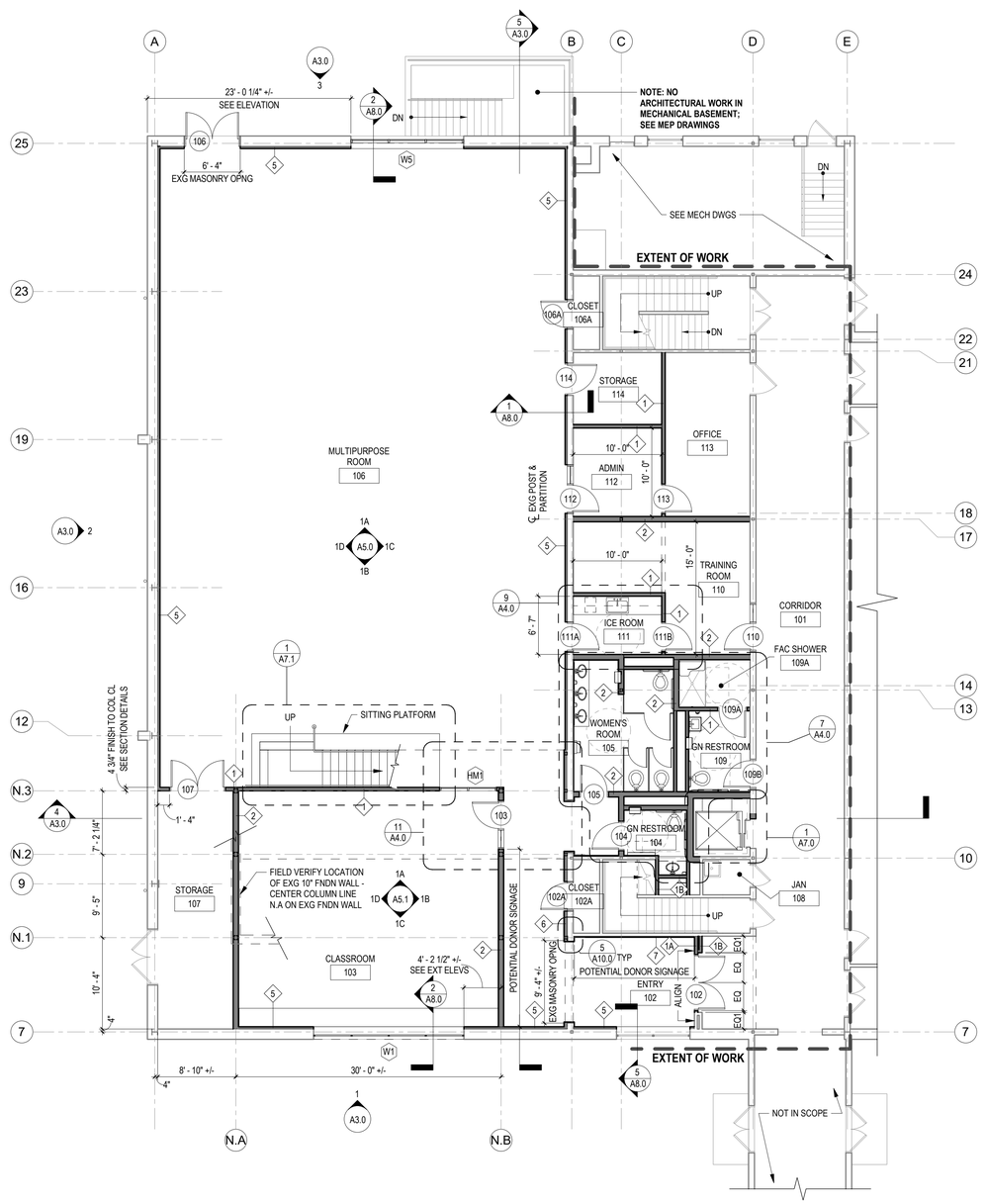
Drawing Set: PERMIT SET SUBMISSION

Drawing Title: DEMOLITION ELEVATIONS

Drawing Number: D3.0



2 A2.0 SECOND FLOOR PLAN
1/8" = 1'-0"



1 A2.0 FIRST FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. COORDINATE ALL WORK WITH STRUCTURAL AND MEPFA DRAWINGS.
2. PATCH AND REPAIR ALL FINISHES TO REMAIN IN FINAL CONSTRUCTION RESULTING FROM DEMOLITION ACTIVITIES.
3. PATCH AND REPAIR ALL EXTERIOR FINISHES RESULTING FROM DMEOLITION ACTIVITIES. MATCH ADJACENT CONSTRUCTION.
4. PREPARE AND RE-PAINT ANY EXPOSED EXISTING PAINTED ITEMS WITHIN WORK AREA.
5. GC TO COORDINATE AND PROVIDE REQUIRED IN-WALL BLOCKING FOR ITEMS INDICATED AS PROVIDED BY OWNER INCLUDING DISPLAY UNITS.

DRAWING LEGEND:

NEW CONSTRUCTION

EXISTING CONSTRUCTION TO REMAIN

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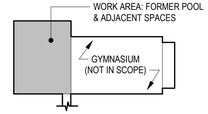

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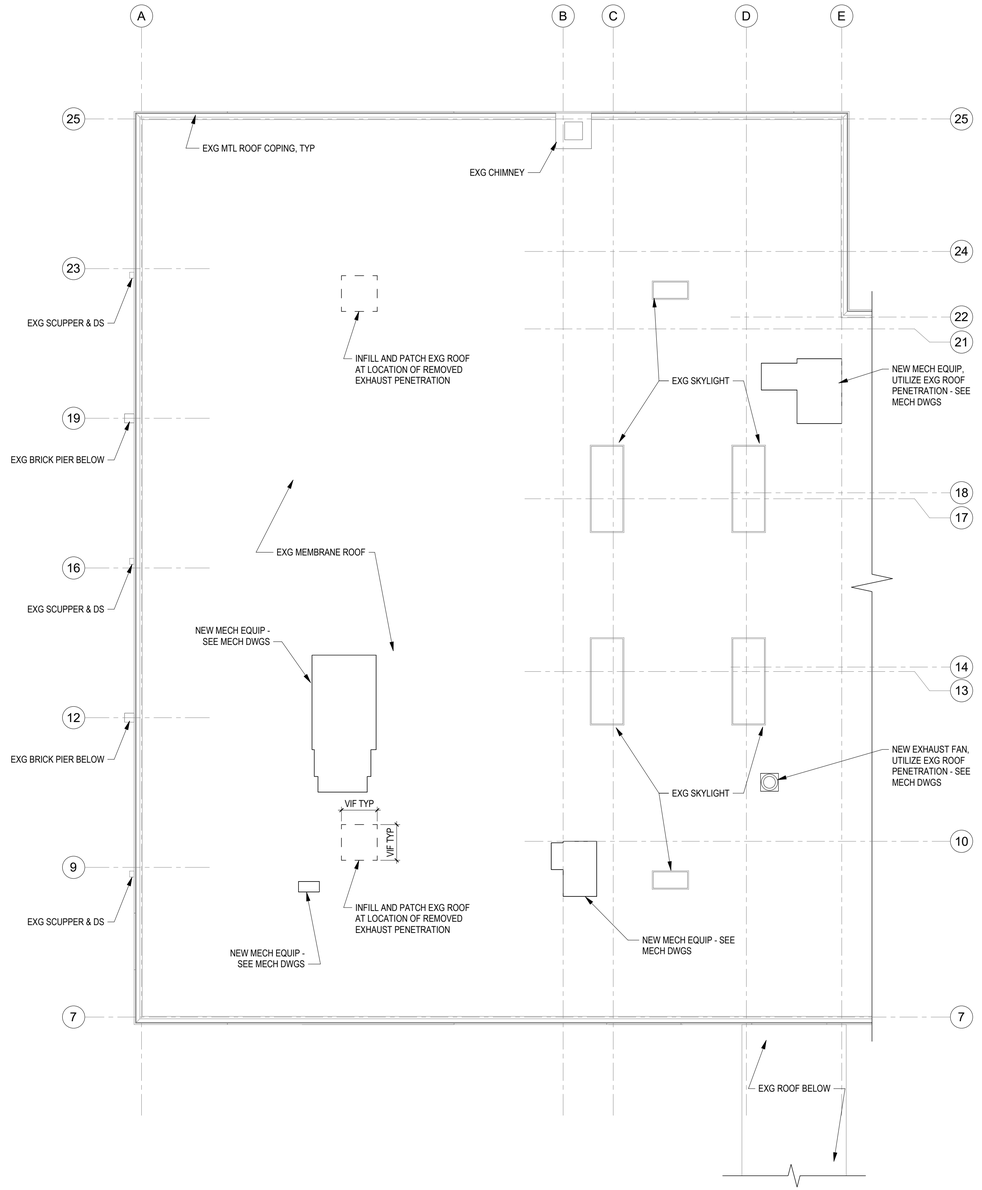
Job Number: 786
File:

Date: 4.26.2024

Drawing Set: PERMIT SET SUBMISSION

Drawing Title: PLANS

Drawing Number: A2.0



1 A2.1 ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. COORDINATE ALL WORK WITH STRUCTURAL AND MEPFA DRAWINGS.
2. PATCH AND REPAIR ALL FINISHES TO REMAIN IN FINAL CONSTRUCTION RESULTING FROM DEMOLITION ACTIVITIES.
3. PATCH AND REPAIR ALL EXTERIOR FINISHES RESULTING FROM DMEOLITION ACTIVITIES. MATCH ADJACENT CONSTRUCTION.
4. PREPARE AND RE-PAINT ANY EXPOSED EXISTING PAINTED ITEMS WITHIN WORK AREA.
5. GC TO COORDINATE AND PROVIDE REQUIRED IN-WALL BLOCKING FOR ITEMS INDICATED AS PROVIDED BY OWNER INCLUDING DISPLAY UNITS.

DRAWING LEGEND:

NEW CONSTRUCTION

EXISTING CONSTRUCTION TO REMAIN

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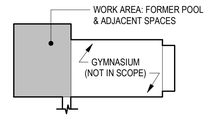

KEY PLAN

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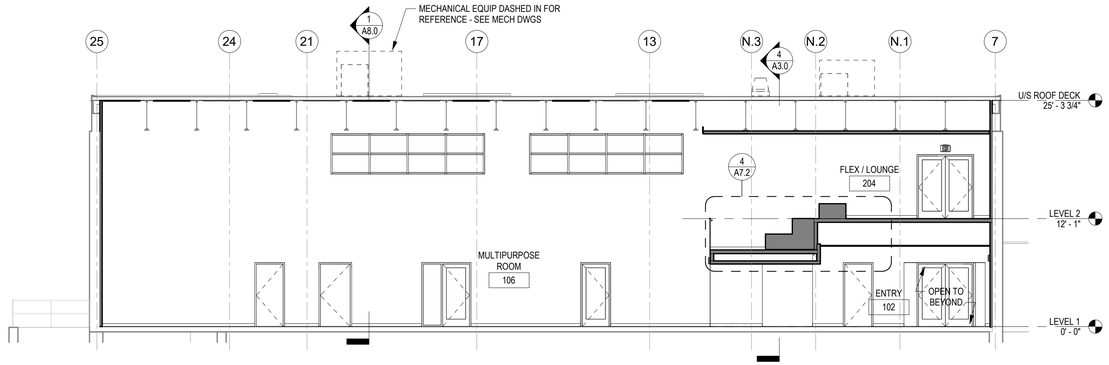
Job Number: 786
File:

Date:
4.26.2024

Drawing Set:
PERMIT SET SUBMISSION

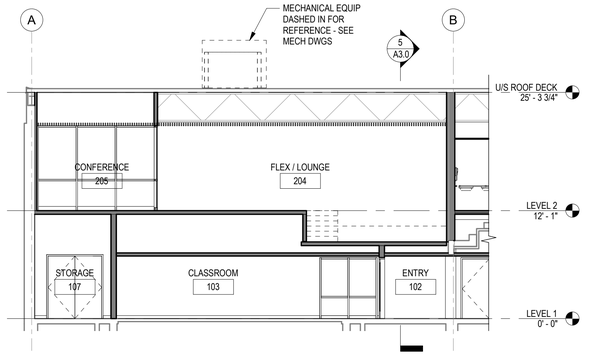
Drawing Title:
ROOF PLAN

Drawing Number:
A2.1



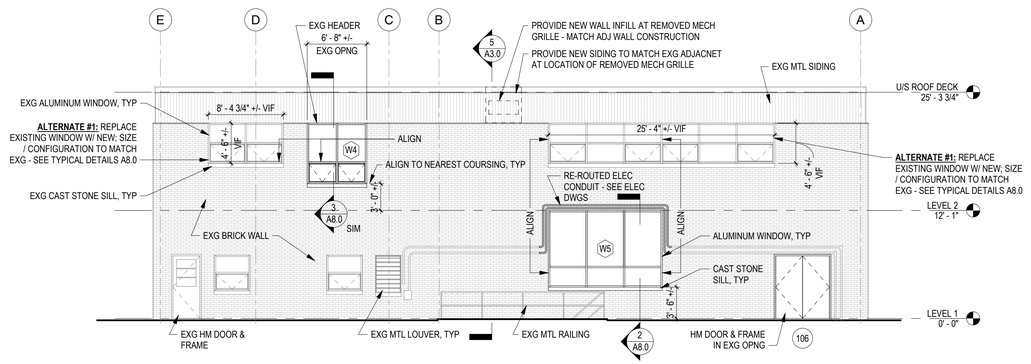
5 A3.0 N-S SECTION THRU MULTIPURPOSE ROOM

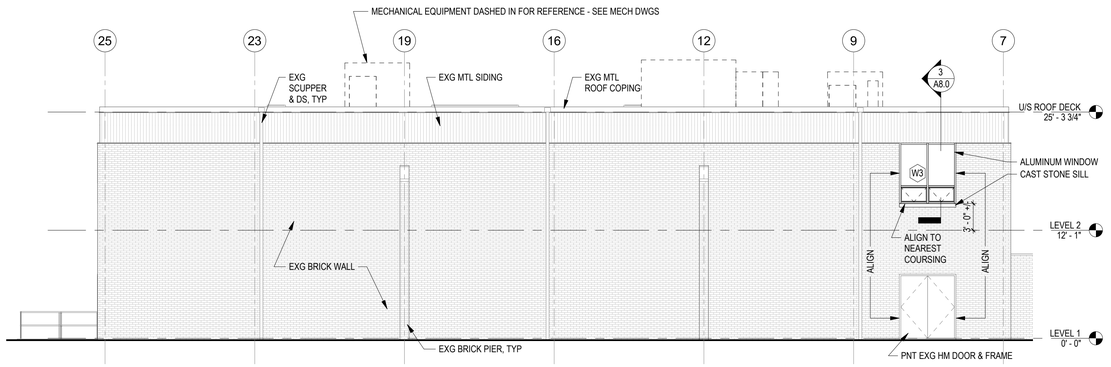
1/8" = 1'-0"



4 A3.0 E-W SECTION THRU MEZZANINE

1/8" = 1'-0"



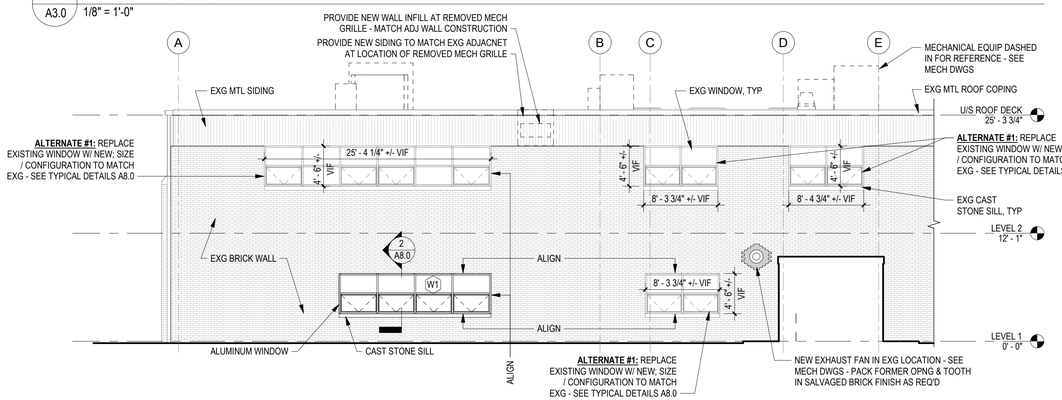


2 A3.0 SOUTH ELEVATION

1/8" = 1'-0"

3 A3.0 WEST ELEVATION

1/8" = 1'-0"



1 A3.0 EAST ELEVATION

1/8" = 1'-0"

GENERAL NOTES:

1. COORDINATE ALL WORK WITH STRUCTURAL AND MEPFA DRAWINGS.
2. PATCH AND REPAIR ALL FINISHES TO REMAIN IN FINAL CONSTRUCTION RESULTING FROM DEMOLITION ACTIVITIES.
3. PATCH AND REPAIR ALL EXTERIOR FINISHES RESULTING FROM DMEOLITION ACTIVITIES. MATCH ADJACENT CONSTRUCTION.
4. PREPARE AND RE-PAINT ANY EXPOSED EXISTING PAINTED ITEMS WITHIN WORK AREA.
5. GC TO COORDINATE AND PROVIDE REQUIRED IN-WALL BLOCKING FOR ITEMS INDICATED AS PROVIDED BY OWNER INCLUDING DISPLAY UNITS.

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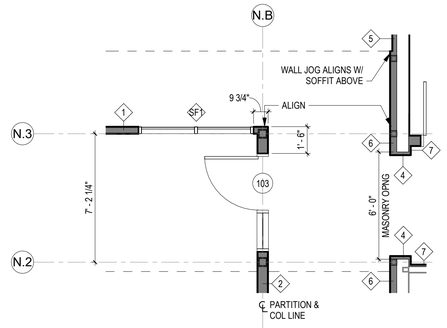
4.26.2024

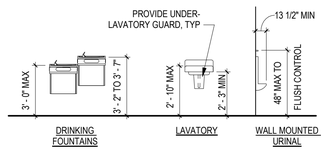
Drawing Set:
PERMIT SET SUBMISSION

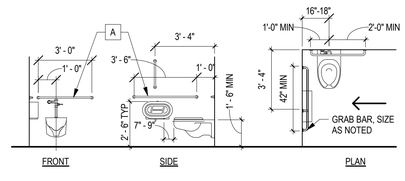
Drawing Title:
EXTERIOR ELEVATIONS AND SECTIONS

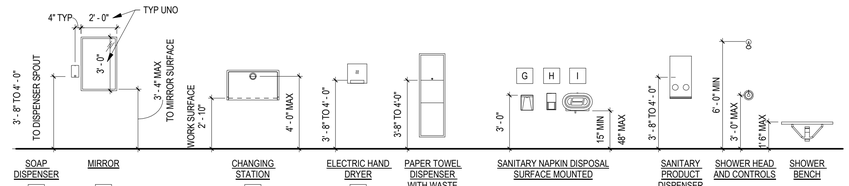
Drawing Number:
A3.0



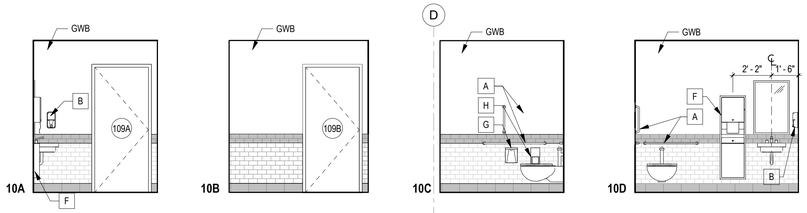
11 A4.0 ENLARGED CORRIDOR AT RESTROOMS PLAN
1/4" = 1'-0"



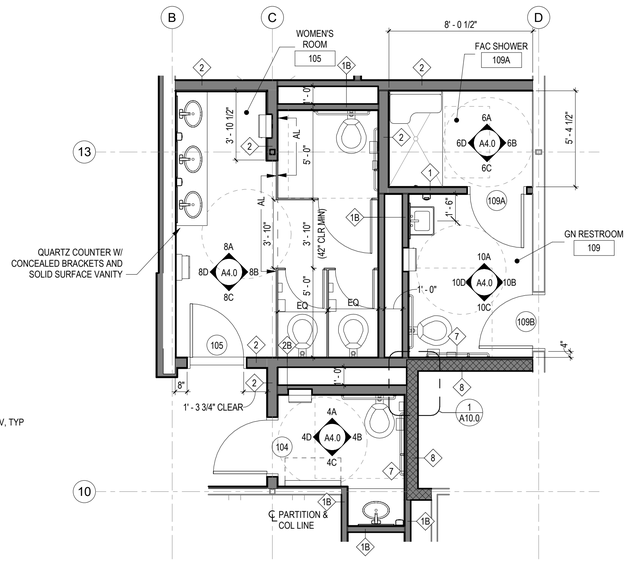




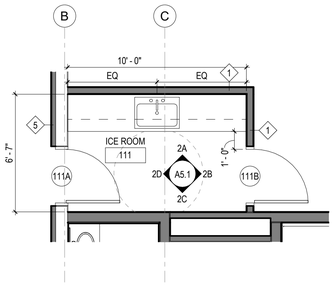
12 A4.0 TYPICAL MOUNTING HEIGHTS BATHROOM
1/4" = 1'-0"



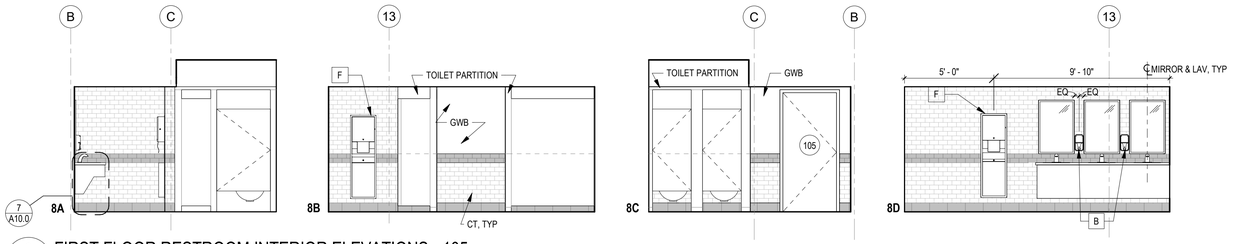
10 A4.0 FIRST FLOOR RESTROOM INTERIOR ELEVATIONS - 109
1/4" = 1'-0"



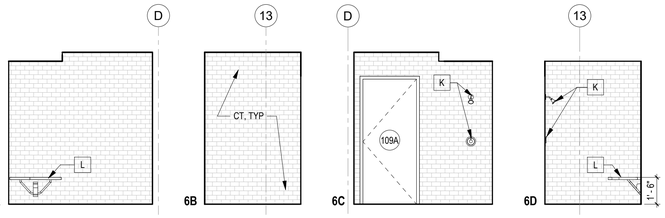
7 A4.0 ENLARGED FIRST FLOOR RESTROOM PLAN
1/4" = 1'-0"



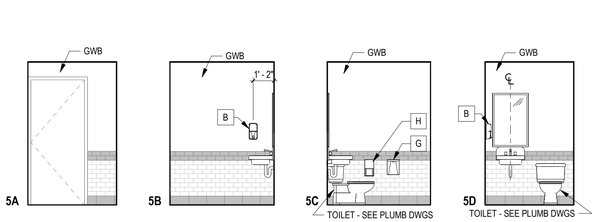
9 A4.0 ENLARGED ICE ROOM PLAN - 111
1/4" = 1'-0"



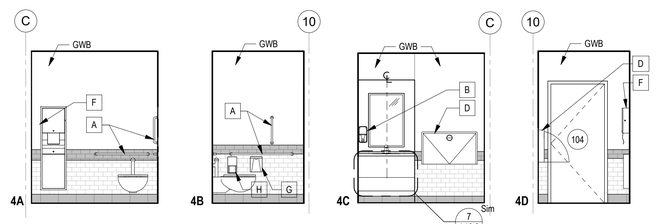
8 A4.0 FIRST FLOOR RESTROOM INTERIOR ELEVATIONS - 105
1/4" = 1'-0"



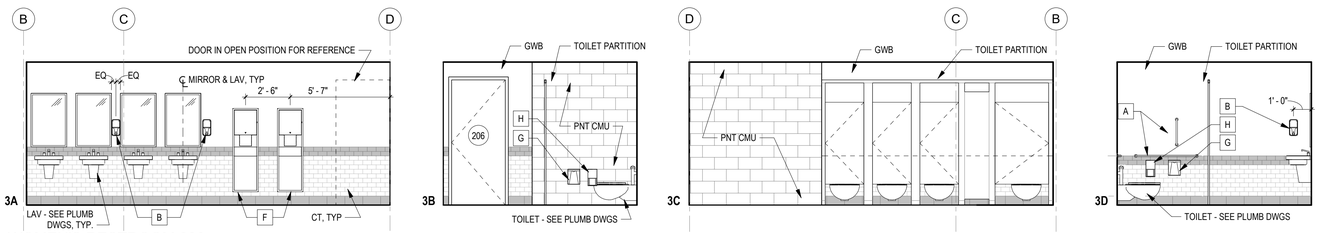
6 A4.0 FIRST FLOOR RESTROOM INTERIOR ELEVATIONS - 109A
1/4" = 1'-0"



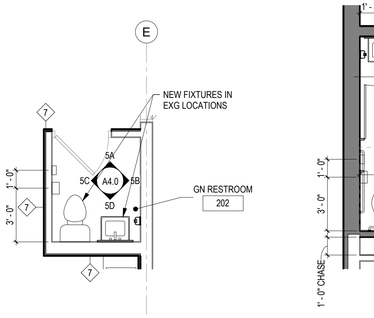
5 A4.0 GENDER NEUTRAL RESTROOM INTERIOR ELEVATIONS - 202
1/4" = 1'-0"



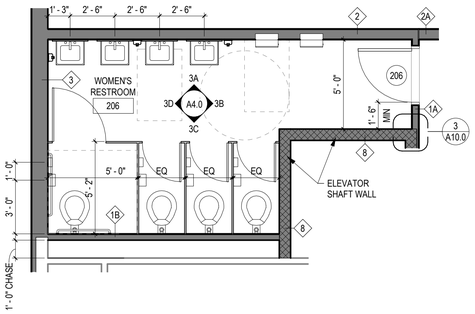
4 A4.0 FIRST FLOOR RESTROOM INTERIOR ELEVATIONS - 104
1/4" = 1'-0"



3 A4.0 WOMEN'S RESTROOM 206
1/4" = 1'-0"



2 A4.0 ENLARGED GN RESTROOM 202 PLAN
1/4" = 1'-0"



1 A4.0 ENLARGED WOMEN'S RESTROOM 206 PLAN
1/4" = 1'-0"

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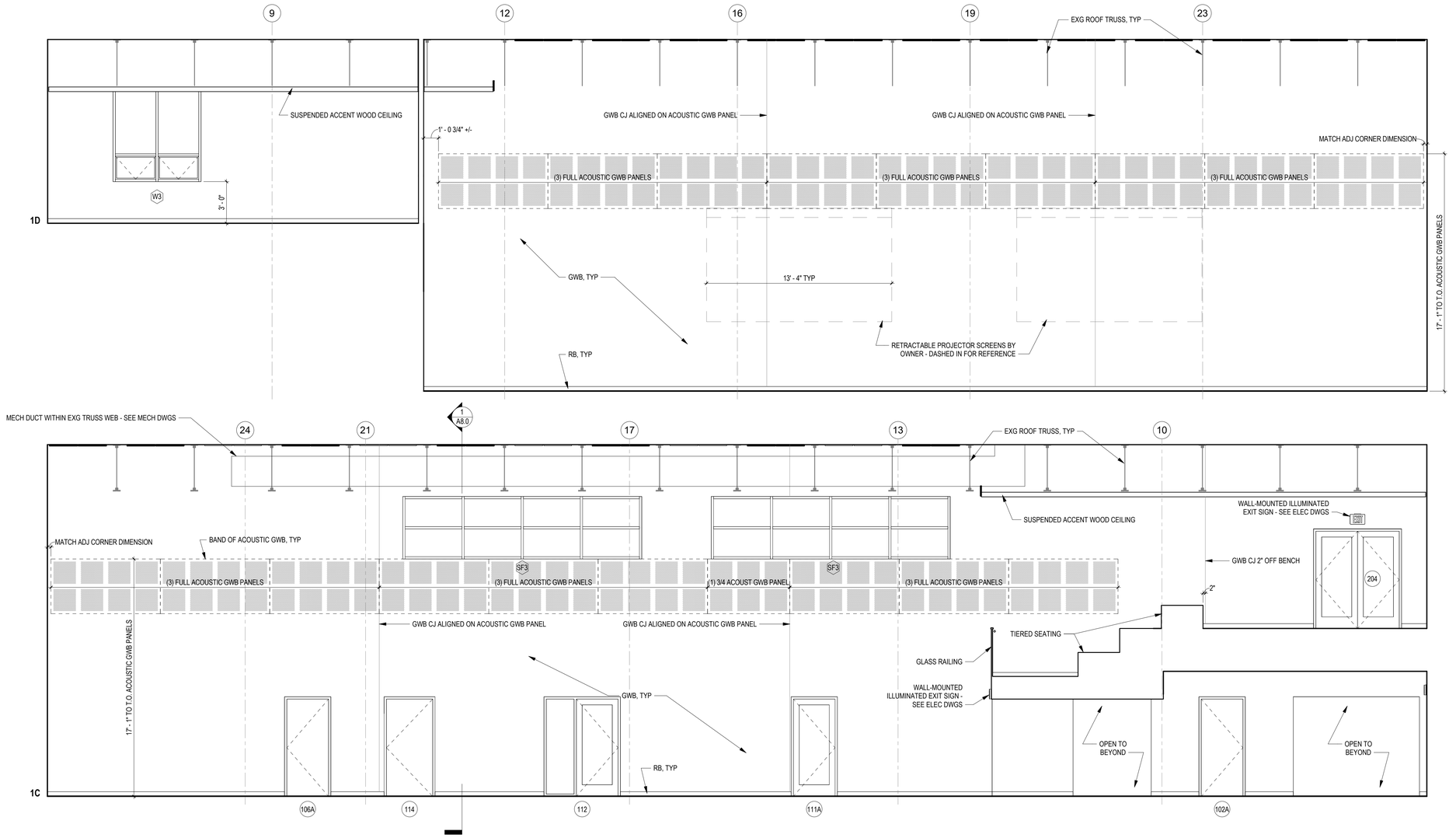
Drawing Title: ENLARGED PLANS & INTERIOR ELEVATIONS

Drawing Number: A4.0



1 A5.0 MULTIPURPOSE ROOM 106

1/4" = 1'-0"

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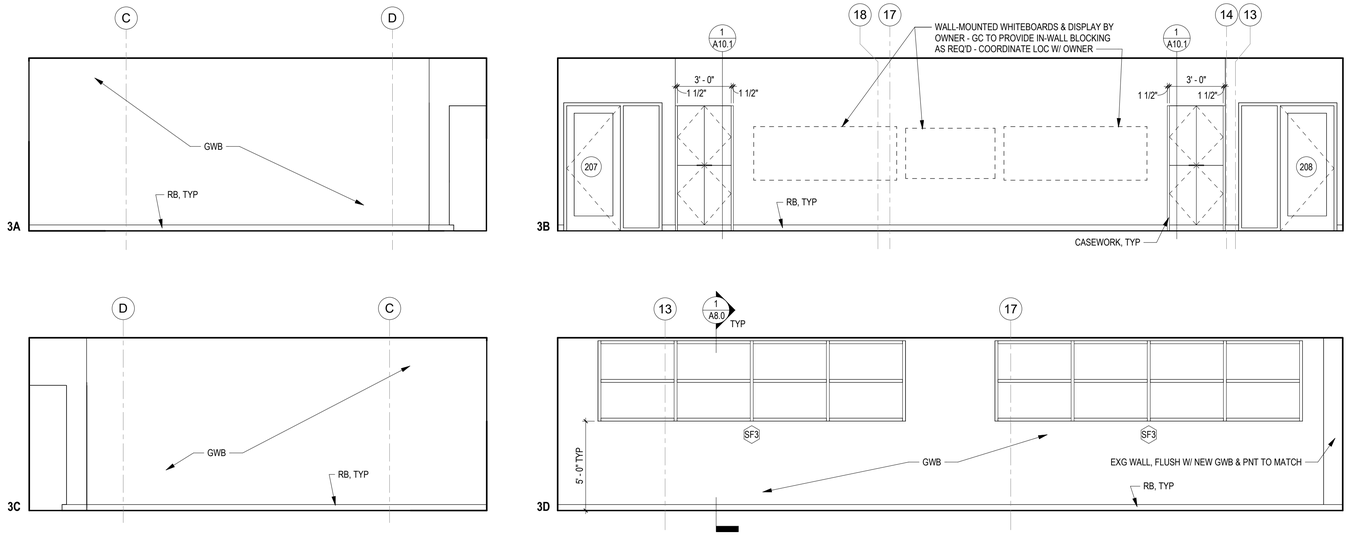
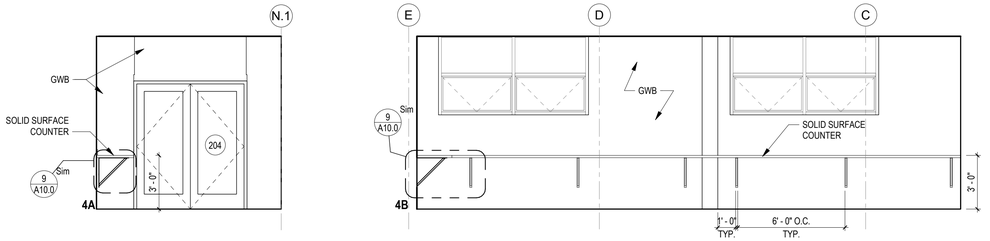
PERMIT SET SUBMISSION

Drawing Title:
INTERIOR ELEVATIONS

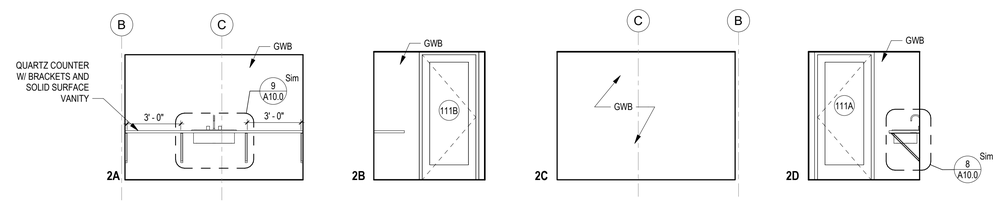
Drawing Number:
A5.0



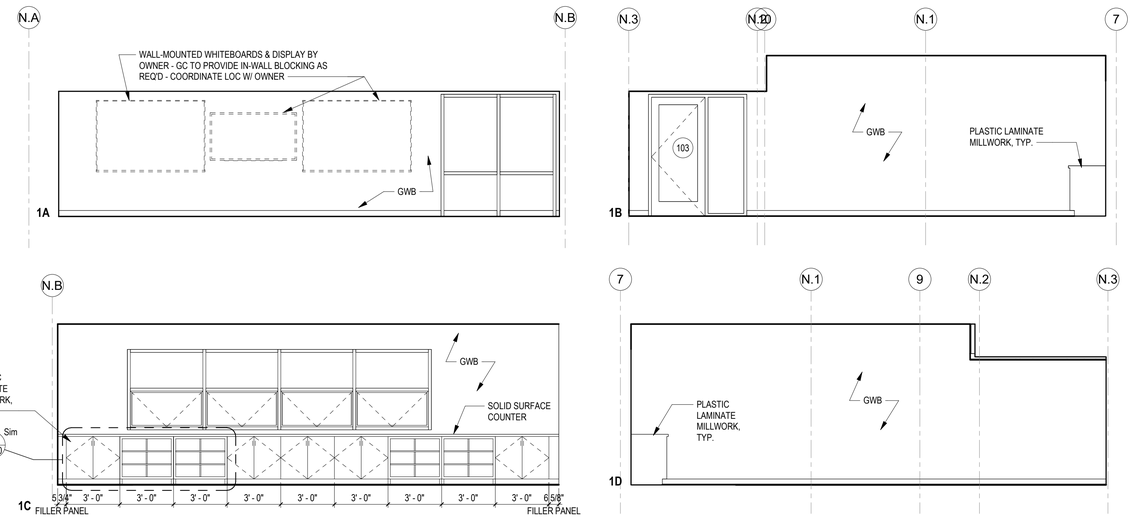
3 A5.1 CLASSROOM 207
1/4" = 1'-0"



4 A5.1 STUDY 203
1/4" = 1'-0"



2 A5.1 ICE ROOM 111
1/4" = 1'-0"



1 A5.1 CLASSROOM 103
1/4" = 1'-0"

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Job Number: 786
File:

Date:
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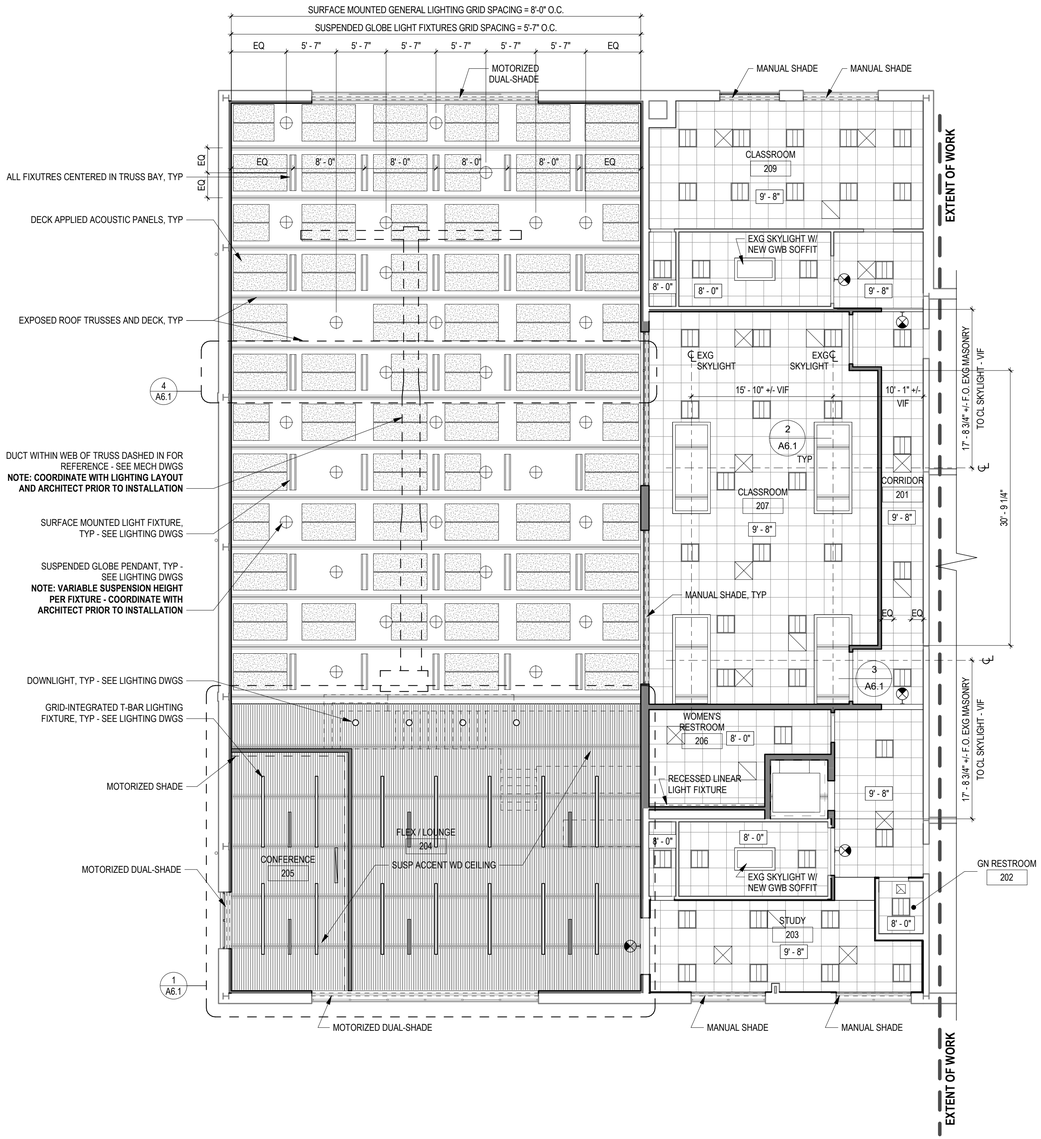
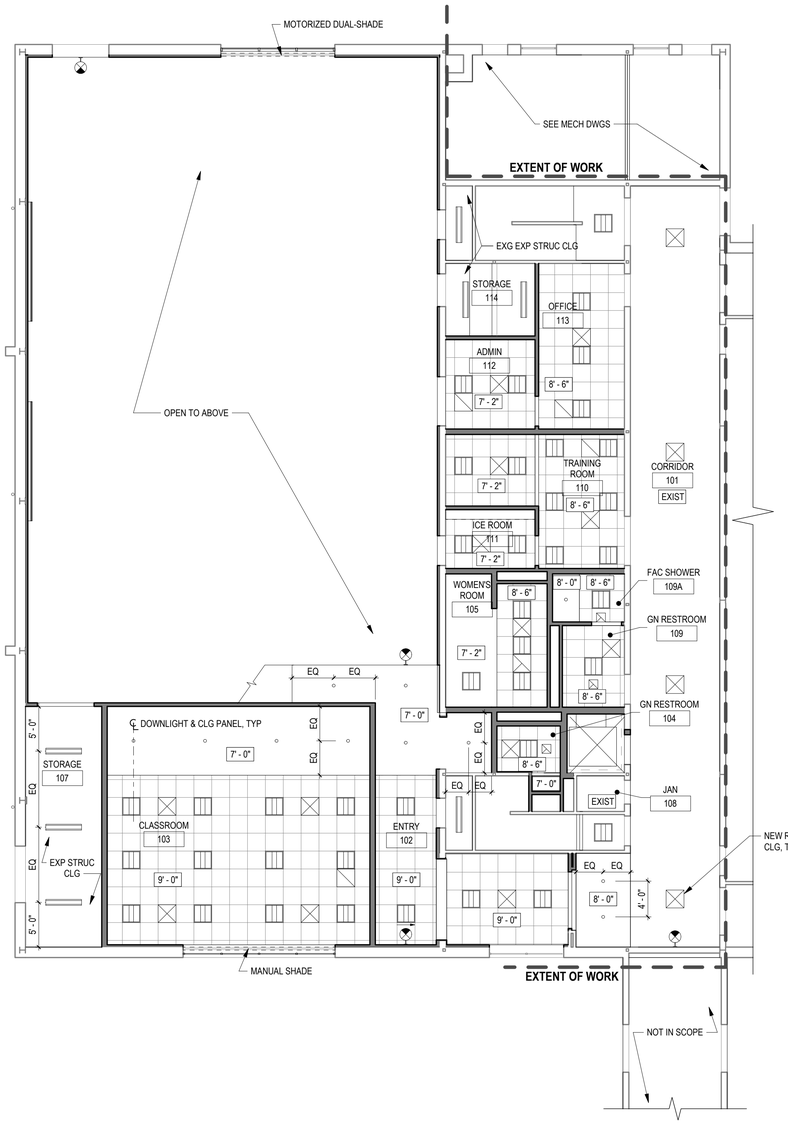
Drawing Set:
PERMIT SET SUBMISSION

Drawing Title:
INTERIOR ELEVATIONS

Drawing Number:
A5.1



2 SECOND FLOOR RCP
A6.0 1/8" = 1'-0"



1 FIRST FLOOR RCP
A6.0 1/8" = 1'-0"

GENERAL CEILING NOTES:

1. MEP DEVICES ARE SHOWN FOR REPERENCE AND COORDINATION OF LOCATIONS ONLY. SEE MEP DRAWINGS FOR ADDITIONAL INFO AND DEVICES OTHERWISE NOT SHOWN. GC TO NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL RCP AND MEP RCPS.
2. CEILING TILES AND GRID ARE TO BE CENTERED IN ROOM, UNO.
3. PAINT ALL EXPOSED CONCRETE AND STEEL STRUCTURE.
4. PROVIDE MOTORIZED / MANUAL ROLLER WINDOW SHADES / DUAL ROLLER WINDOW SHADES AS INDICATED. COORDINATE POWER AND CONTROLS REQUIREMENTS WITH ELEC DWGS & OWNER.
5. ASSUME (1) WALL-MOUNTED FIXTURE OVER EACH SINK, TYP. SEE LIGHTING DWGS.
6. PROVIDE ACT TO MATCH EXG AS NEEDED IN CORRIDOR 101 FOLLOWING MECHANICAL DUCT WORK IN THIS AREA.
7. LIGHTING IS TO BE CENTERED IN ROOM OR ALIGNED WITH CEILING GRID, TYP.
8. PROVIDE ACT TYPE 'A' IN CLASSROOMS. PROVIDE ACT TYPE 'B' IN ALL OTHER SPACES.

RCP LEGEND:

- NEW SUSPENDED ACCENT WOOD CEILING
- NEW 2'-0" x 2'-0" ACOUSTIC CEILING TILE
- NEW DECK APPLIED ACOUSTIC PANELS; SIZED AT 2'-0" x 6'-0" & 2'-0" x 4'-0" AS SHOWN
- 2' x 2' SUPPLY DIFFUSER - SEE MECH DWGS
- 2' x 2' RETURN GRILLE - SEE MECH DWGS
- 2' x 2' EXHAUST GRILLE - SEE MECH DWGS
- LINEAR SUPPLY DIFFUSER - SEE MECH DWGS
- LINEAR RETURN GRILLE - SEE MECH DWGS
- SUSPENDED GLOBE PENDANT - SEE LIGHTING DWGS
- SURFACE MOUNTED LINEAR FIXTURE - SEE LIGHTING DWGS
- 2' x 2' DROP-IN LIGHT FIXTURE - SEE LIGHTING DWGS
- RECESSED DOWNLIGHT - SEE LIGHTING DWGS
- RECESSED PERIMETER COVE LIGHT - SEE LIGHTING DWGS
- EXIT SIGN

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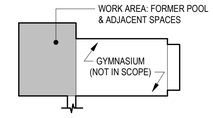

KEY PLAN

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Job Number: 786
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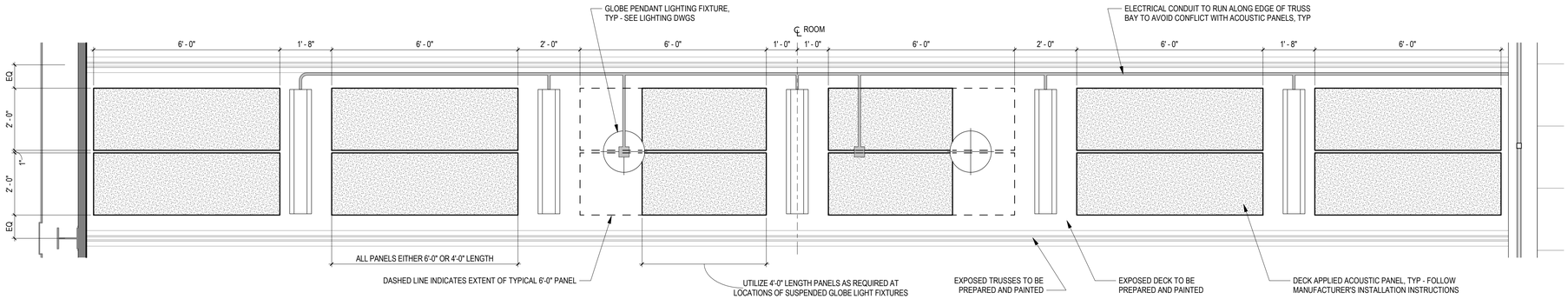
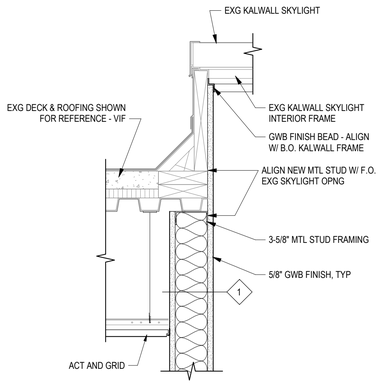
Drawing Title: REFLECTED CEILING PLANS

Drawing Number: A6.0



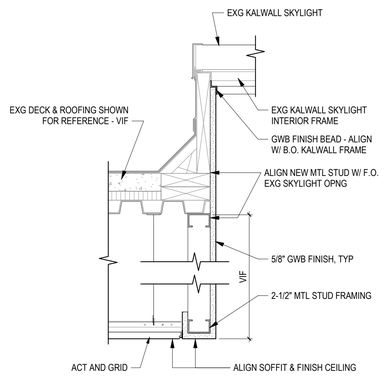
4 A6.1 DECK APPLIED ACOUSTIC PANEL ARRANGEMENT

1/2" = 1'-0"



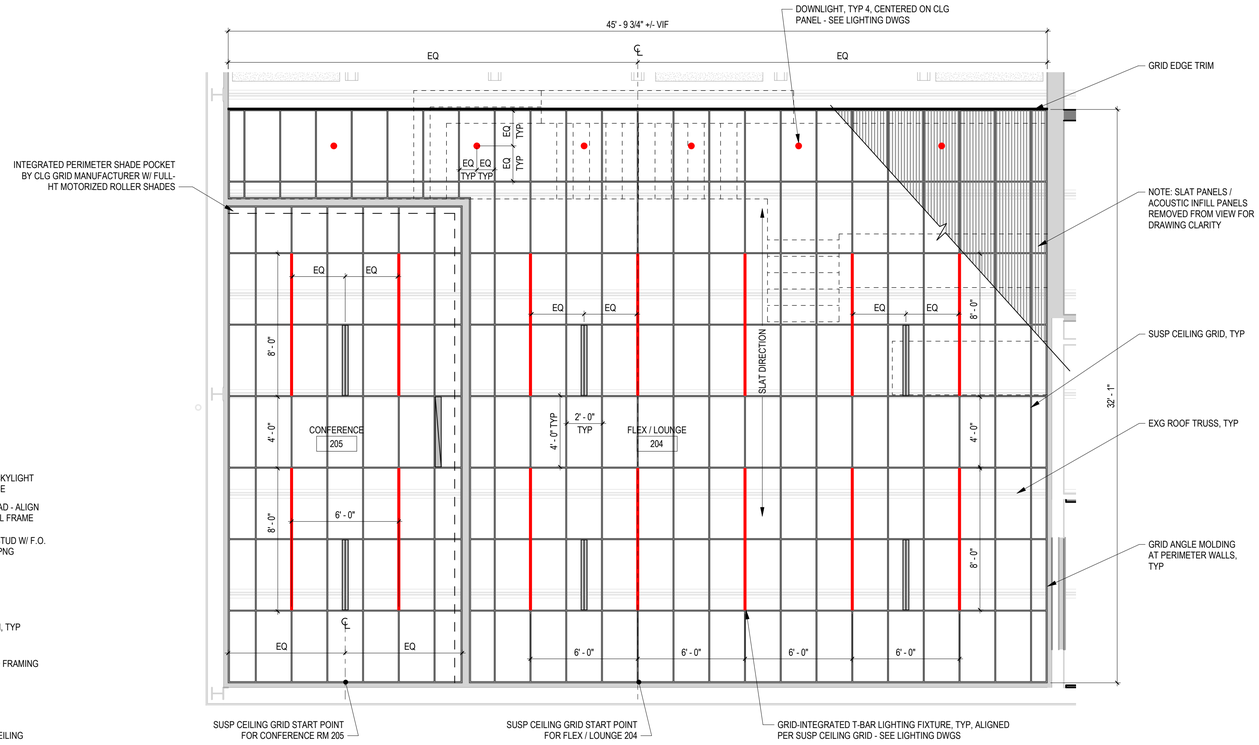
3 A6.1 EXG SKYLIGHT TO NEW PARITITION

1 1/2" = 1'-0"



2 A6.1 TYPICAL SKYLIGHT SOFFIT

1 1/2" = 1'-0"



1 A6.1 ENLARGED MEZZANINE SLAT CEILING RCP

1/4" = 1'-0"

GENERAL CEILING NOTES:

1. MEP DEVICES ARE SHOWN FOR REPERENCE AND COORDINATION OF LOCATIONS ONLY. SEE MEP DRAWINGS FOR ADDITIONAL INFO AND DEVICES OTHERWISE NOT SHOWN. GC TO NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL RCP AND MEP RCPS.
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6. PROVIDE ACT TO MATCH EXG AS NEEDED IN CORRIDOR 101 FOLLOWING MECHANICAL DUCT WORK IN THIS AREA.
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- 2' x 2' RETURN GRILLE - SEE MECH DWGS
- 2' x 2' EXHAUST GRILLE - SEE MECH DWGS
- LINEAR SUPPLY DIFFUSER - SEE MECH DWGS
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- SURFACE MOUNTED LINEAR FIXTURE - SEE LIGHTING DWGS
- 2' x 2' DROP-IN LIGHT FIXTURE - SEE LIGHTING DWGS
- RECESSED DOWNLIGHT - SEE LIGHTING DWGS
- RECESSED PERIMETER COVE LIGHT - SEE LIGHTING DWGS
- EXIT SIGN

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Job Number: 786
File:

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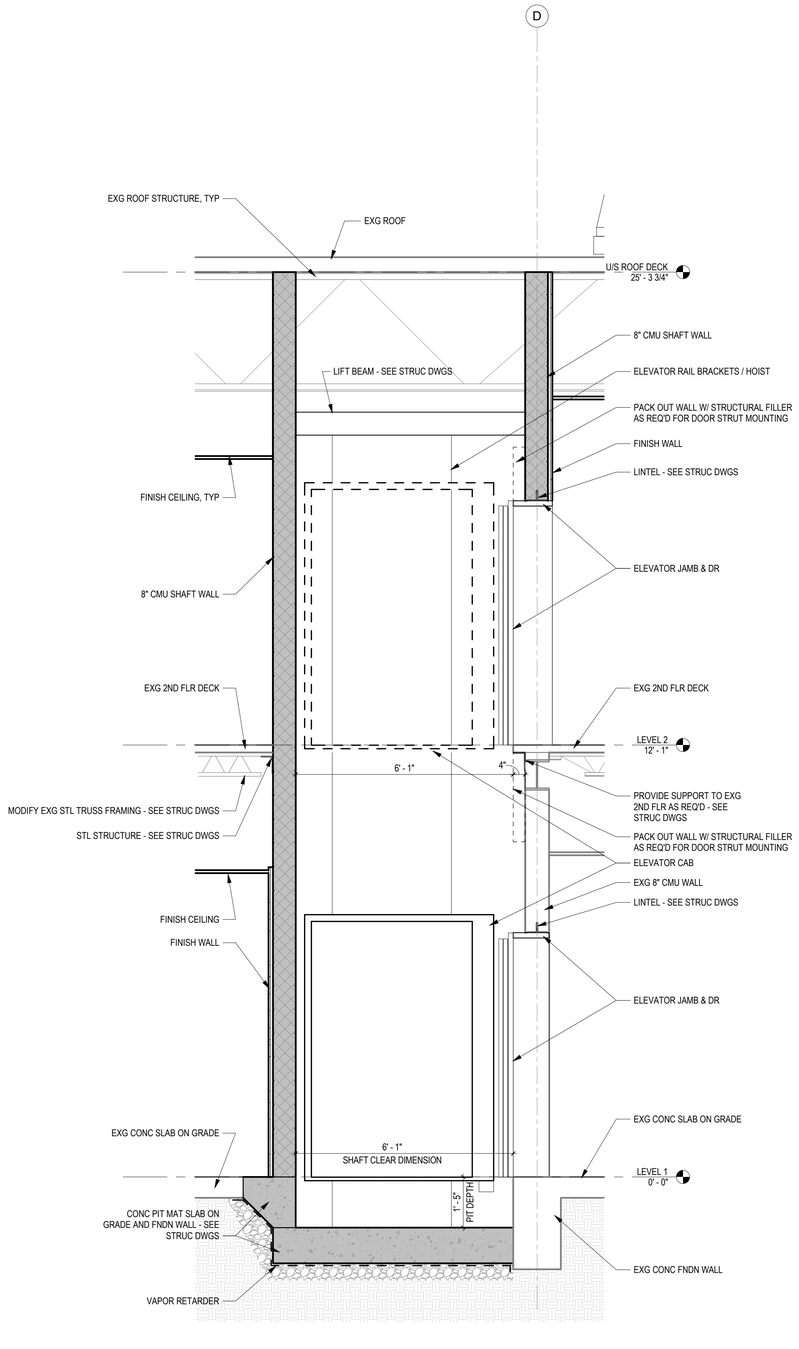
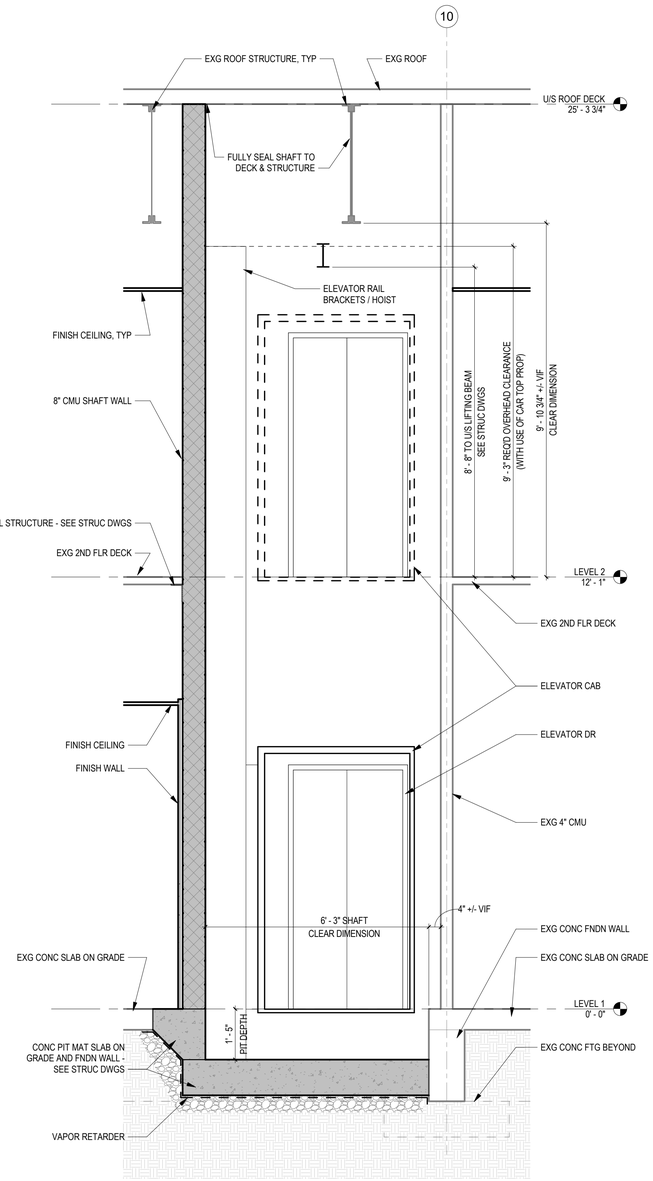
Drawing Title: ENLARGED REFLECTED CEILING PLANS & DETAILS

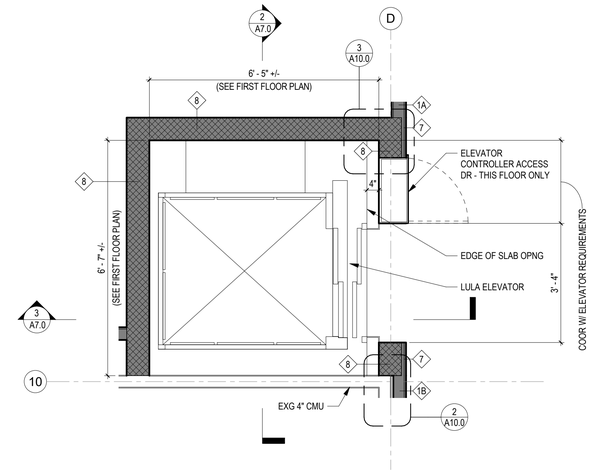
Drawing Number: A6.1



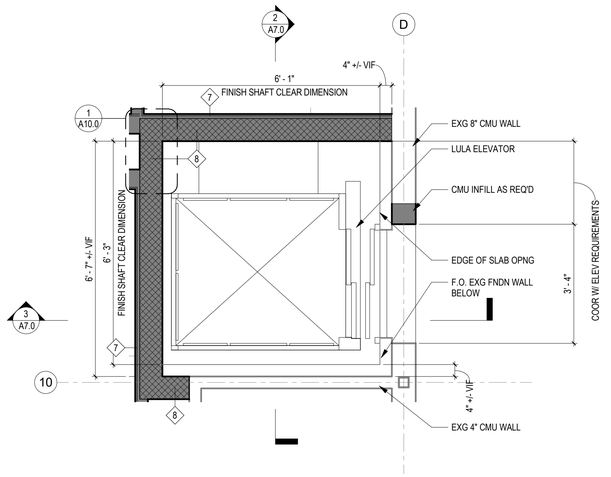
3 A7.0 E-W SHAFT SECTION
1/2" = 1'-0"



2 A7.0 N-S SHAFT SECTION
1/2" = 1'-0"



4 A7.0 ENLARGED SHAFT PLAN AT SECOND FLOOR
1/2" = 1'-0"



1 A7.0 ENLARGED SHAFT PLAN AT FIRST FLOOR
1/2" = 1'-0"

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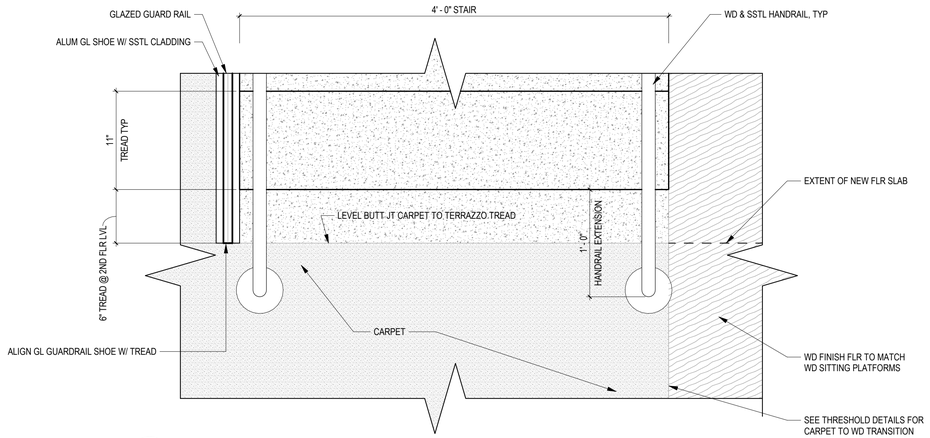
File:

Date:
4.26.2024

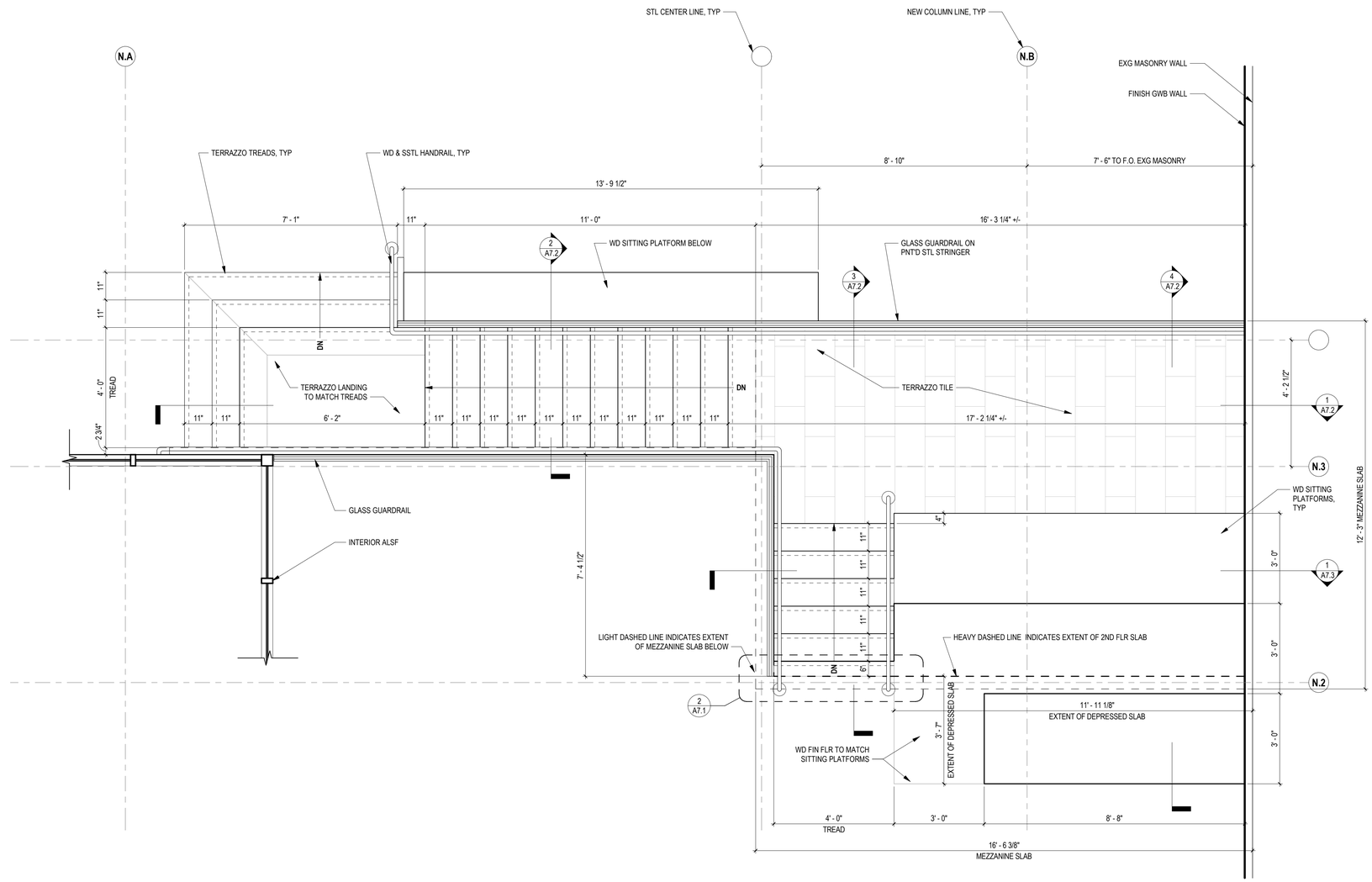
Drawing Set:
PERMIT SET SUBMISSION

Drawing Title:
VERTICAL CIRCULATION PLANS AND SECTIONS

Drawing Number:
A7.0



2 / A7.1 MEZZANINE TREAD TO CARPET TRANSITION
1 1/2" = 1'-0"



1 / A7.1 ENLARGED MEZZANINE AND STAIR PLAN
1/2" = 1'-0"

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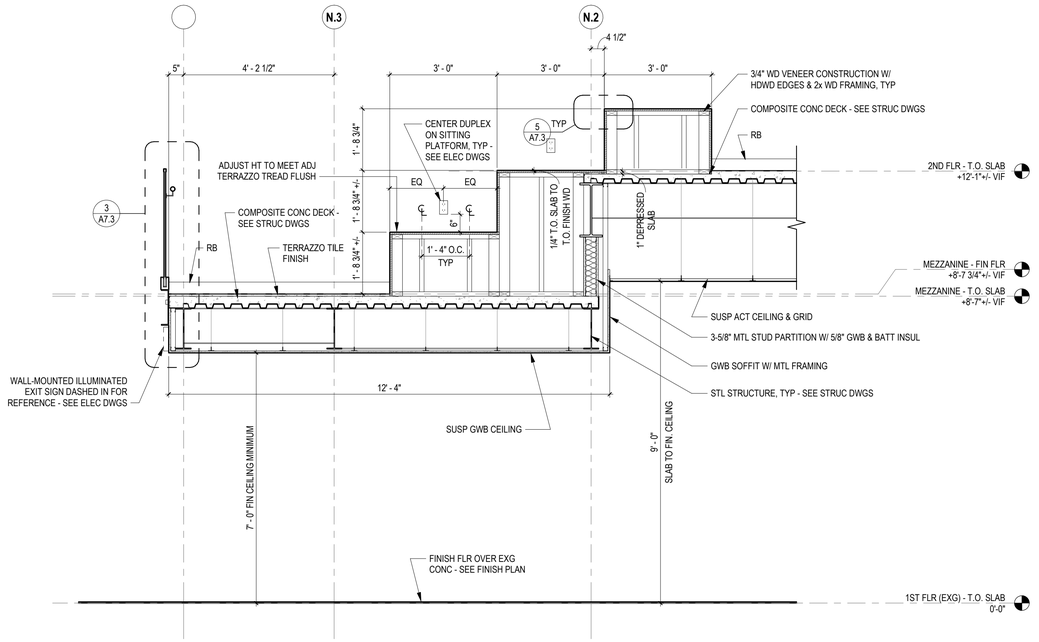
Job Number: 786
File:

Date: 4.26.2024

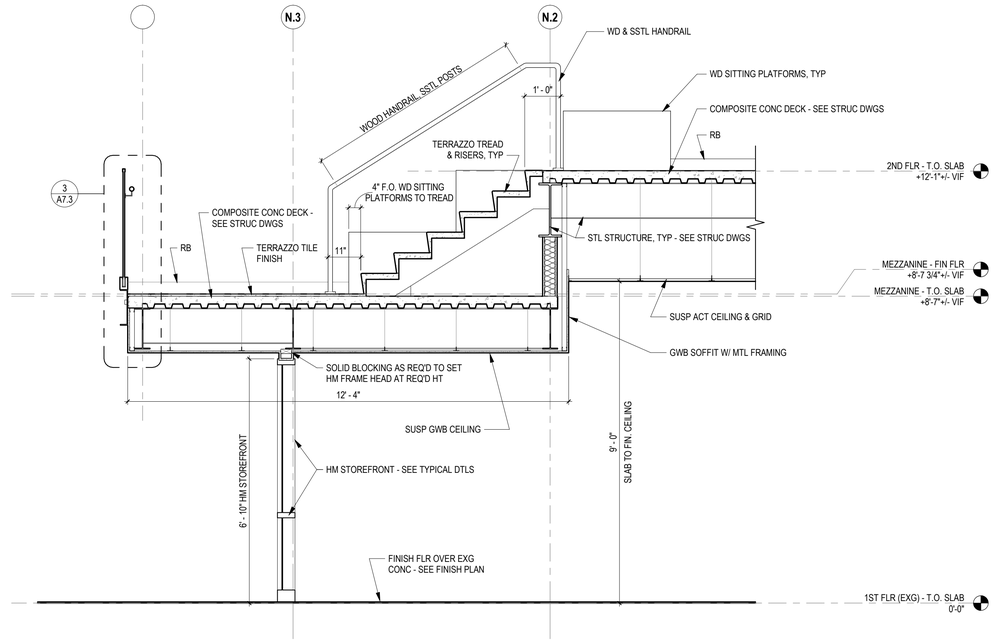
Drawing Set: PERMIT SET SUBMISSION

Drawing Title: MEZZANINE AND STAIR DETAILS

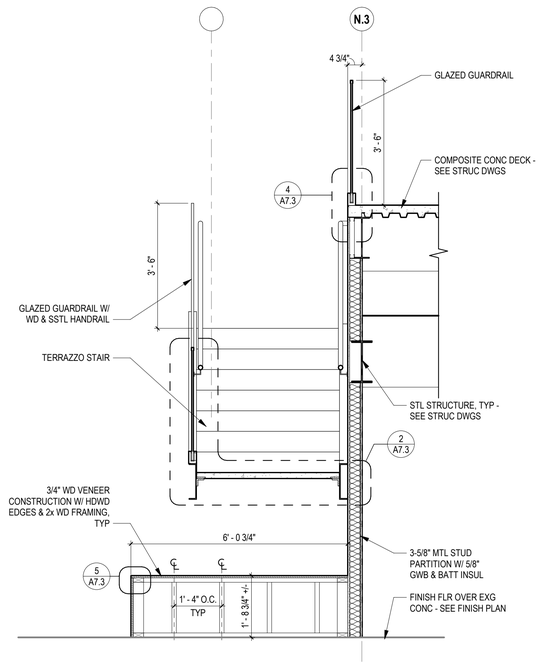
Drawing Number: A7.1



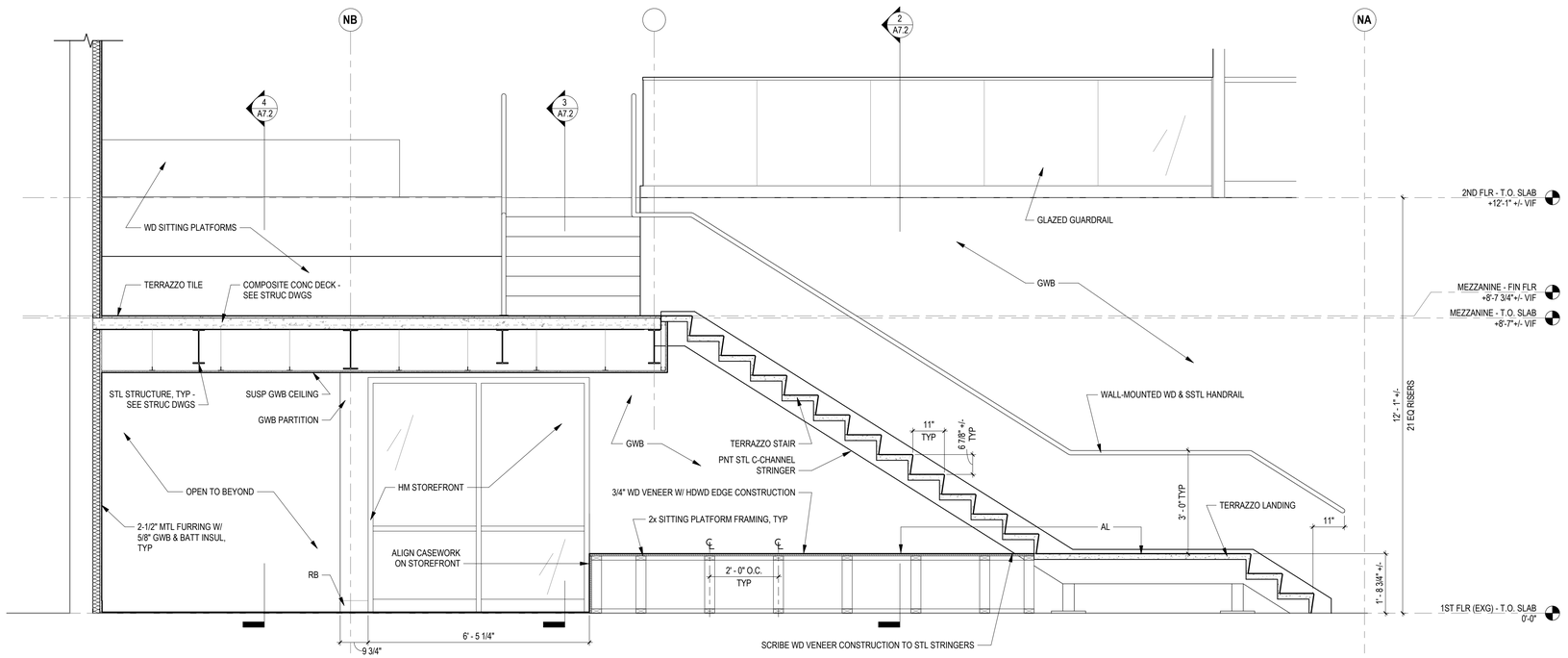
4 A7.2 SECTION THRU MEZZANINE SEATING
1/2" = 1'-0"



3 A7.2 SECTION THRU MEZZANINE STAIR TO 2ND FLR
1/2" = 1'-0"



2 A7.2 TERRAZZO STAIR CROSS SECTION
1/2" = 1'-0"



1 A7.2 TERRAZZO STAIR SECTION
1/2" = 1'-0"

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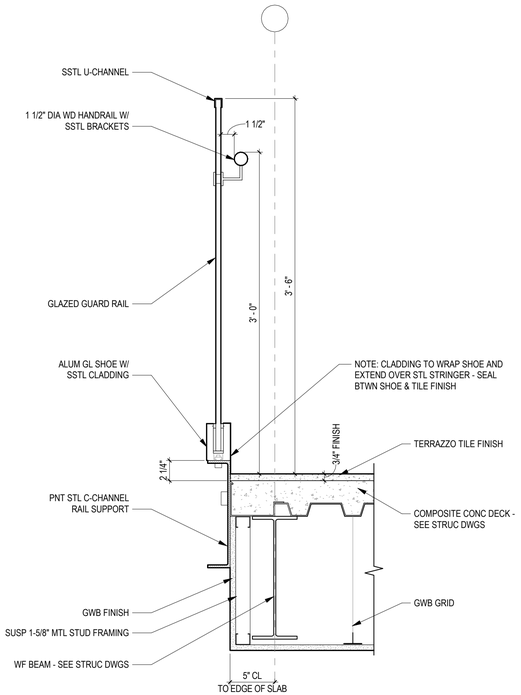
Job Number: 786
File:

Date: 4.26.2024

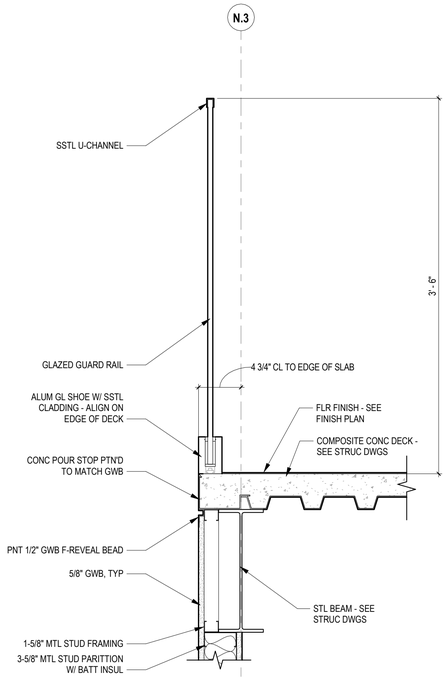
Drawing Set: PERMIT SET SUBMISSION

Drawing Title: MEZZANINE AND STAIR DETAILS

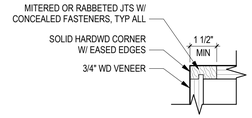
Drawing Number: A7.2



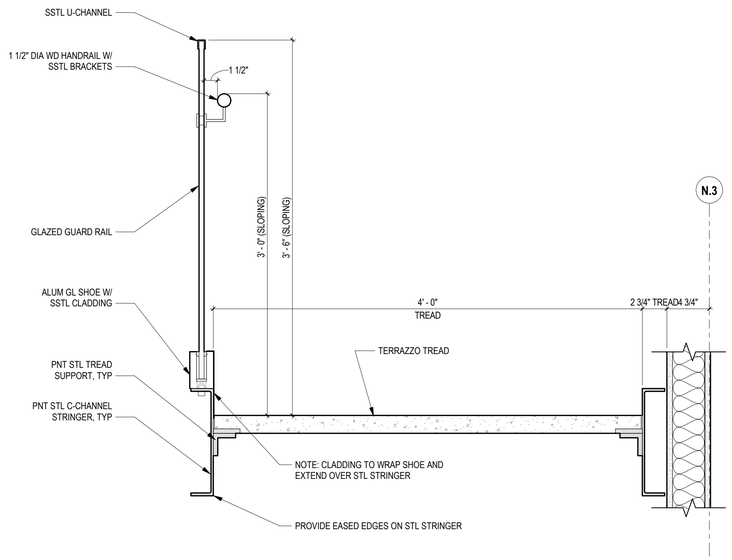
3 A7.3 GUARDRAIL AT MEZZANINE DETAIL
1 1/2" = 1'-0"



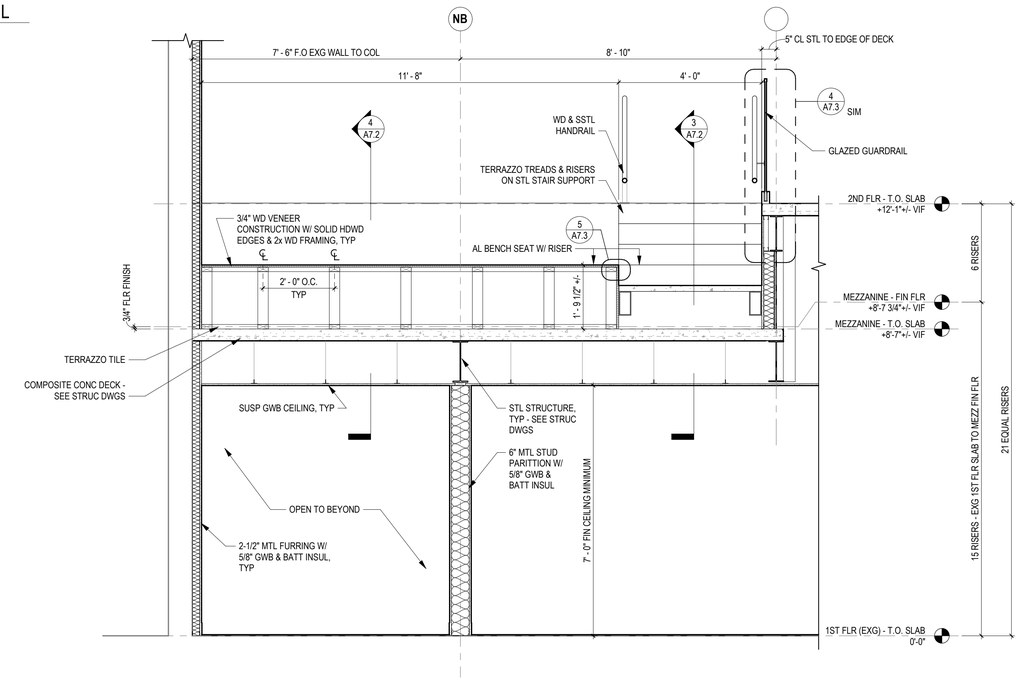
4 A7.3 GUARDRAIL AT SECOND FLOOR DETAIL
1 1/2" = 1'-0"



5 A7.3 TYPICAL PLYWD SEATING CORNER DETAIL
3" = 1'-0"



2 A7.3 ENLARGED TERRAZZO STAIR TREAD AND HANDRAIL1
1 1/2" = 1'-0"



1 A7.3 CROSS SECTION THRU MEZZANINE SEATING AND STAIR
1/2" = 1'-0"

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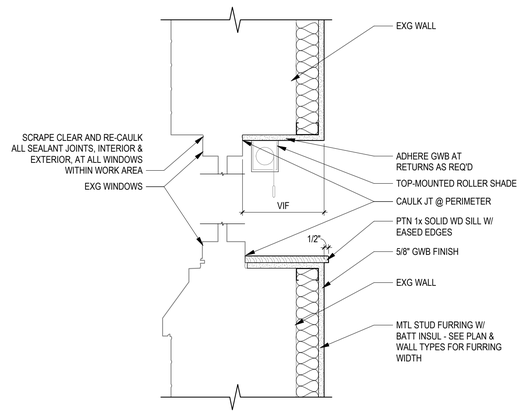
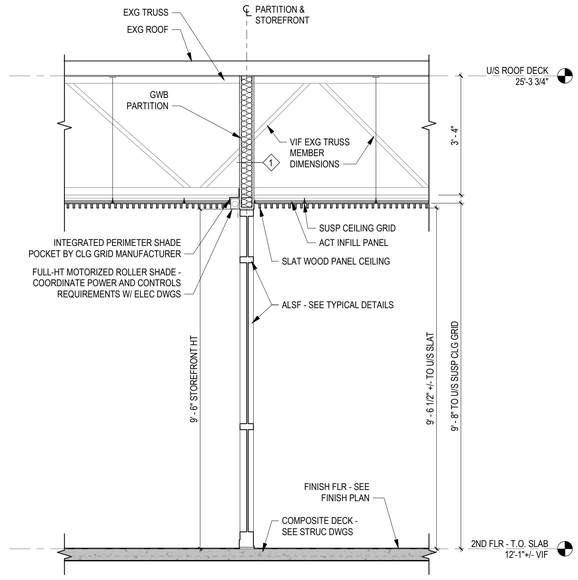
PERMIT SET SUBMISSION

Drawing Title:
MEZZANINE AND STAIR DETAILS

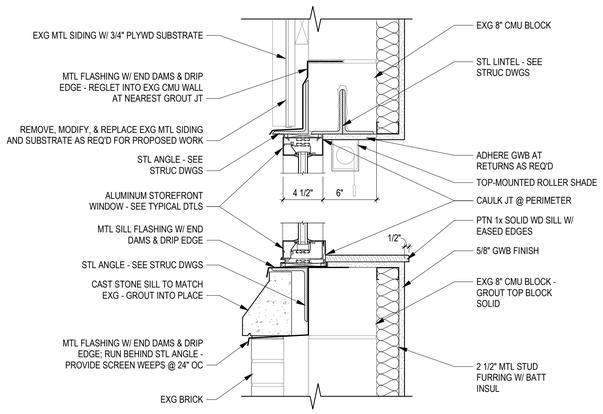
Drawing Number:
A7.3



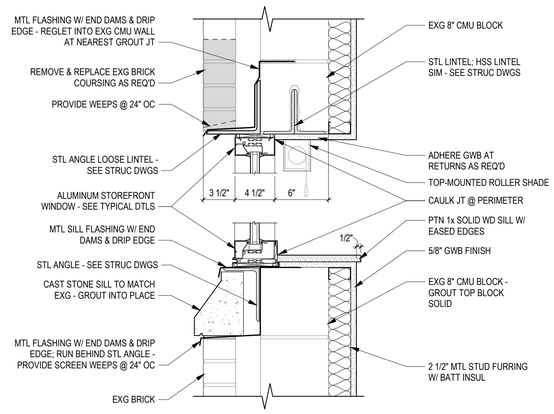
5 A8.0 HEAD & SILL AT EXG WDWS TO REMAIN
1 1/2" = 1'-0"



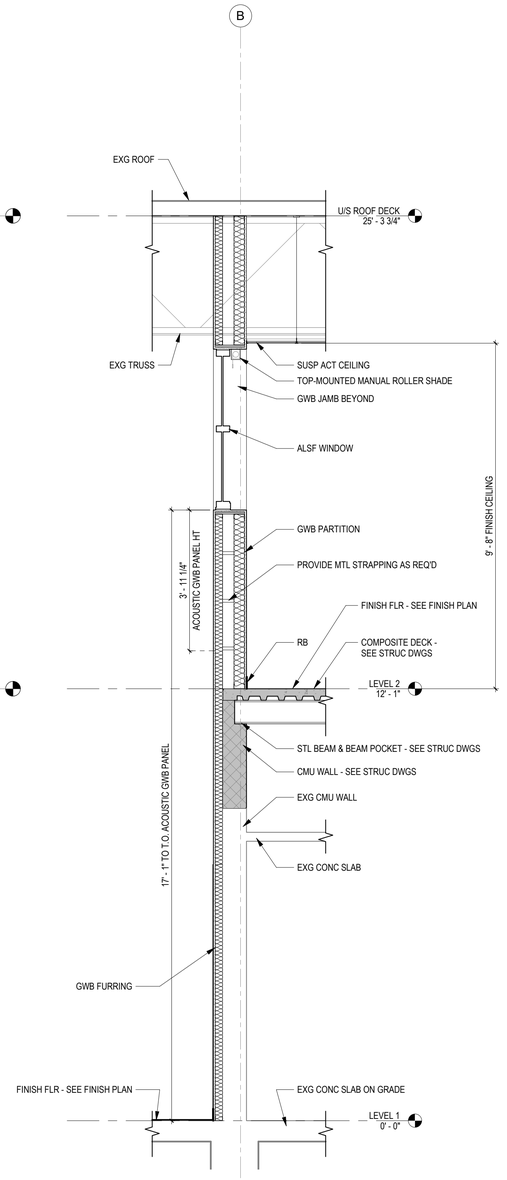
4 A8.0 SECTION THRU CONFERENCE ROOM ALSF
1/2" = 1'-0"



3 A8.0 WINDOW HEAD & SILL IN EXG WALL @ 2ND FLR
1 1/2" = 1'-0"



2 A8.0 WINDOW HEAD & SILL IN EXG WALL
1 1/2" = 1'-0"



1 A8.0 SECTION THRU MULTIPURPOSE ROOM WALL
1/2" = 1'-0"

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No.	Date	Revisions

Seal:

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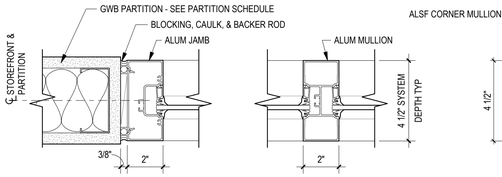
Job Number: 786
File:

Date:
4.26.2024

Drawing Set:
PERMIT SET SUBMISSION

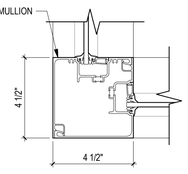
Drawing Title:
WALL SECTIONS AND EXTERIOR DETAILS

Drawing Number:
A8.0

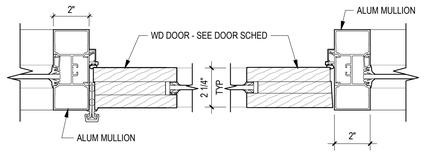


4L TYPICAL JAMB

4K TYPICAL VERITCAL MULLION

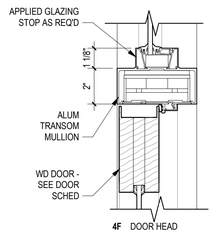


4J CORNER MULLION

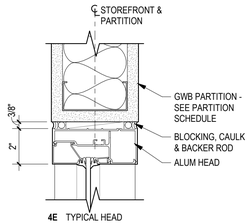


4H DOOR JAMB

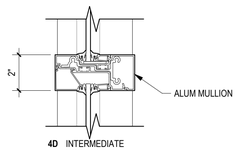
4G DOOR JAMB



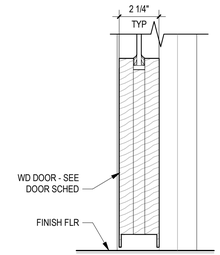
4F DOOR HEAD



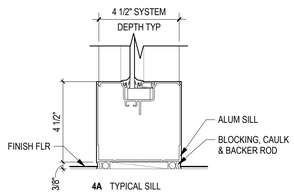
4E TYPICAL HEAD



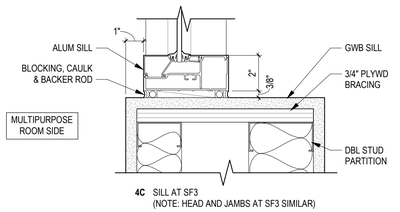
4D INTERMEDIATE HORIZONTAL



4B DOOR BOTTOM RAIL



4A TYPICAL SILL



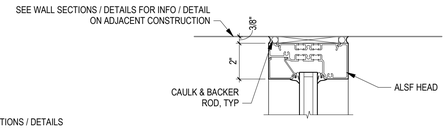
4C SILL AT SF3
(NOTE: HEAD AND JAMBS AT SF3 SIMILAR)

4 A9.0 INTERIOR ALUMINUM STOREFRONT DETAILS
3" = 1'-0"

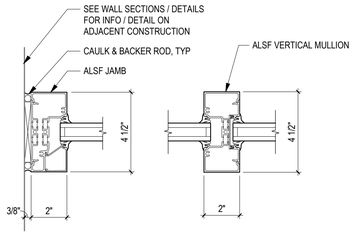
INTERIOR PARTITION TYPES

TYPE	DESCRIPTION	HEIGHT	FIRE RATING	PLAN DETAIL	SPECIFICATION
1	3 5/8" MTL STUD PARTITION	TO UNDERSIDE OF DECK, U.N.O.	0	4 7/8"	3 5/8" MTL STUDS @ 16" OC, 3 1/2" BATT INSULATION, 5/8" GWB BOTH SIDES.
1A	RATED 3 5/8" MTL STUD PARTITION	TO UNDERSIDE OF DECK, U.N.O.	1	4 7/8"	3 5/8" MTL STUDS @ 16" OC, 3 1/2" BATT INSULATION, 5/8" GWB BOTH SIDES.
1B	3 5/8" MTL STUD PARTITION, 5/8" GWB ONE SIDE	TO UNDERSIDE OF DECK, U.N.O.	0	4 1/4"	3 5/8" MTL STUDS @ 16" OC, 3 1/2" BATT INSULATION, 5/8" GWB ONE SIDE.
2	6" MTL STUD PARTITION	TO UNDERSIDE OF DECK, U.N.O.	0	7 1/4"	6" MTL STUDS @ 16" OC, 3 1/2" BATT INSULATION, 5/8" GWB BOTH SIDES.
2A	RATED 6" MTL STUD PARTITION	TO UNDERSIDE OF DECK, U.N.O.	1	7 1/4"	6" MTL STUDS @ 16" OC, 3 1/2" BATT INSULATION, 5/8" GWB BOTH SIDES.
2B	6" MTL STUD PARTITION, 5/8" GWB ONE SIDE	TO UNDERSIDE OF DECK, U.N.O.	0	7 1/4"	6" MTL STUDS @ 16" OC, 3 1/2" BATT INSULATION, 5/8" GWB ONE SIDE.
3	DBL MTL STUD PARTITION	TO UNDERSIDE OF DECK, U.N.O.	0	10 3/4" +/-	3 5/8" MTL STUDS @ 16" OC W/ 3 1/2" BATT INSULATION, 2 1/2" MTL STUDS W/ 2 1/2" BATT INSULATION, 5/8" GWB BOTH SIDES. FINISHES TO ALIGN W/ ADJACENT CONSTRUCTION.
4	1 5/8" MTL STUD FURRING, 5/8" GWB ONE SIDE	TO UNDERSIDE OF DECK, U.N.O.	0	2 1/4"	1 5/8" MTL STUDS @ 16" OC, 5/8" GWB ONE SIDE.
5	2 1/2" MTL STUD FURRING, 5/8" GWB ONE SIDE	TO UNDERSIDE OF DECK, U.N.O.	0	3 1/8"	2 1/2" MTL STUDS @ 16" OC, 2 1/2" BATT INSULATION, 5/8" GWB ONE SIDE.
6	4" MTL STUD FURRING, 5/8" GWB ONE SIDE	TO UNDERSIDE OF DECK, U.N.O.	0	4 5/8"	4" MTL STUDS @ 16" OC, 5/8" GWB ONE SIDE.
7	7/8" MTL HAT CHANNEL FURRING, 5/8" GWB ONE SIDE	TO UNDERSIDE OF DECK, U.N.O.	0	1 1/2"	7/8" MTL HAT CHANNELS @ 16" OC, 5/8" GWB ONE SIDE.
8	8" CMU	TO UNDERSIDE OF DECK, U.N.O.	1		8" CMU. ASSOCIATED FURRING APPLIED AS SEPARATE WALL TYPES.

NOTES:
1. PROVIDE ABUSE-RESISTANT TYPE 'X' GWB AT ALL WALL LOCATIONS.
2. PROVIDE MOISTURE/MOLD RESISTANT GWB IN ALL DAMP/WET LOCATIONS AND ALL CT SUBSTRATE LOCATIONS.
3. ALL NEW GWB CEILINGS AND SOFFIT WALLS TO BE TYPE 'C' GWB, U.N.O. SOFFIT CONSTRUCTION TO BE PARTITION TYPE 1B U.N.O.
4. PROVIDE SOUND BATT INSULATION AT INTERIOR WALLS; PROVIDE UNFACED BATT INSULATION AT EXTERIOR WALL FURRING LOCATIONS.
5. COORDINATE INSTALLATION OF ACOUSTIC GWB AT PARTITION TYPES 3 & 5 IN MULTIPURPOSE ROOM. SEE INTERIOR ELEVATIONS AND DETAILS. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS.

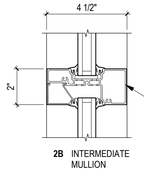


2C HEAD

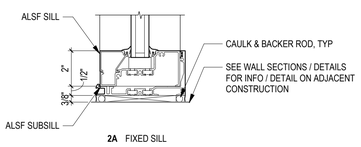


2E JAMB AT WALL

2D VERTICAL MULLION

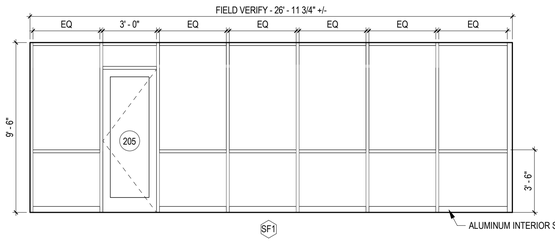


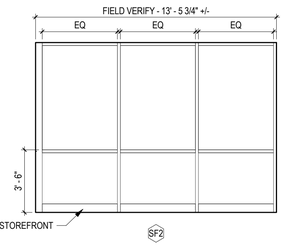
2B INTERMEDIATE MULLION

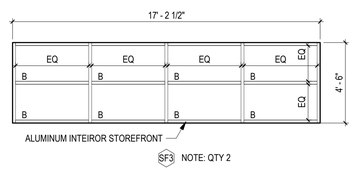


2A FIXED SILL

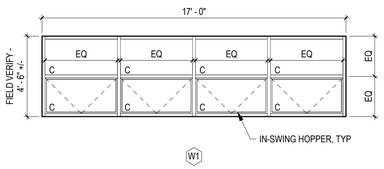
2 A9.0 EXTERIOR ALUMINUM STOREFRONT WINDOW DETAILS
3" = 1'-0"

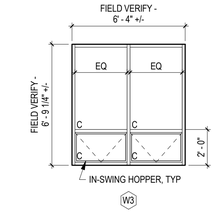


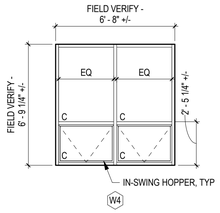


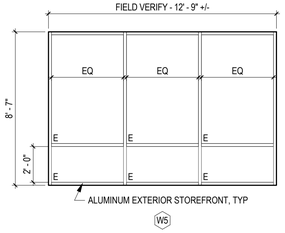


3 A9.0 INTERIOR ALUMINUM STOREFRONT TYPES
1/4" = 1'-0"









1 A9.0 EXTERIOR ALUMINUM STOREFRONT WINDOW TYPES
1/4" = 1'-0"

WINDOW TYPE NOTES:
1. PROVIDE INSECT SCREENS AT ALL OPERABLE UNITS.
2. VERFIY DIMENSIONS AGAINST EXISTING CONDITIONS. SEE EXTERIOR ELEVATIONS FOR ADJACENCIES TO ALIGN.

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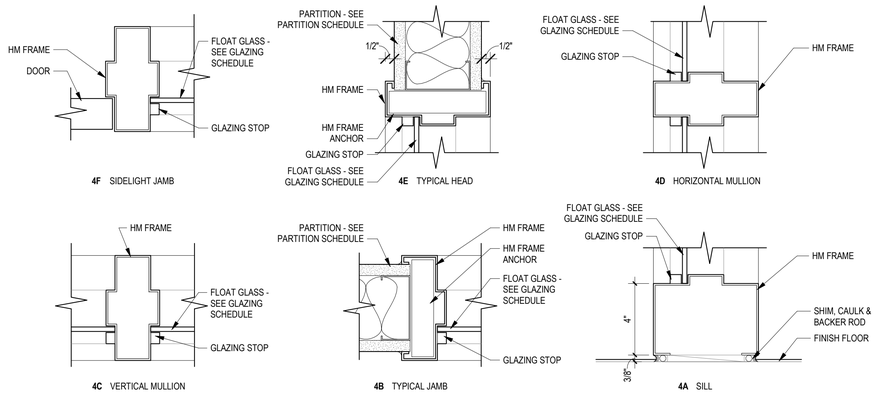
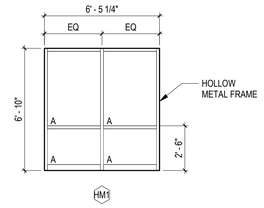
Drawing Set: PERMIT SET SUBMISSION

Drawing Title: TYPES AND SCHEDULES

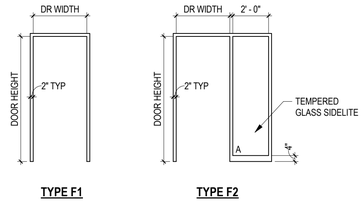
Drawing Number: A9.0



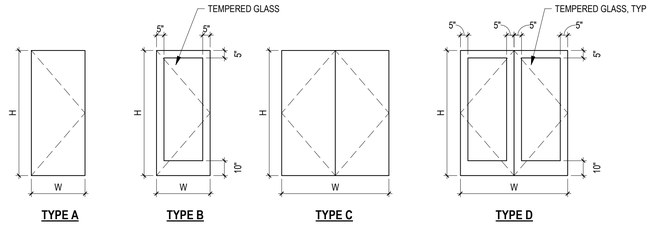
4 / A9.1 TYPICAL HM STOREFRONT & SIDELITE DETAILS
3" = 1'-0"



3 / A9.1 HOLLOW METAL STOREFRONT TYPES
1/4" = 1'-0"



2 / A9.1 DOOR FRAME TYPES
1/4" = 1'-0"



1 / A9.1 DOOR TYPES
1/4" = 1'-0"

DOOR SCHEDULE

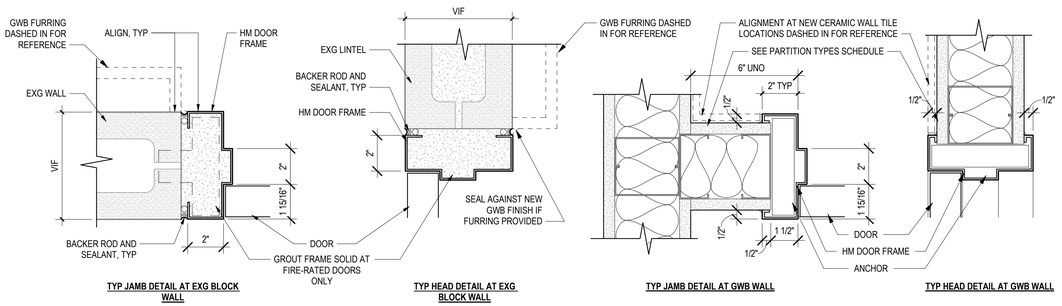
DOOR NO.	ROOM	NEW	EXG	INT	EXT	DOOR TYPE	DOOR MAT	DOOR RATING	DOOR WIDTH	DOOR HEIGHT	DOOR FIN	DOOR GLAZING	FRAME TYPE	FRAME MAT	FRAME FIN	HARDWARE	NOTES
102	ENTRY		●*	●		-	-	20 MIN**	6' - 0"	7' - 0"	-	-	F1	AL	FF		*EXG DR RE-INSTALLED IN NEW FRAME. **EXG DR 20 MIN RATED.
102A	CLOSET	●		●		A	WD		3' - 0"	7' - 0"	FF	GL-A	EXG*	-	PNT		NEW DR IN EXG FRAME - PNT FRAME.
103	CLASSROOM	●		●		B	WD	-	3' - 0"	6' - 8"	FF	GL-A	F2	HM	PNT		
104	GN RESTROOM	●		●		A	WD	-	3' - 0"	6' - 8"	FF	GL-A	F1	HM	PNT		
105	WOMEN'S ROOM	●		●		A	WD	-	3' - 0"	6' - 8"	FF	GL-A	F1	HM	PNT		
106	MULTIPURPOSE ROOM	●			●	C	HM	-	6' - 0"	7' - 0"	PNT	-	F1	HM	PNT		
106A	CLOSET	●		●		A	WD		3' - 0"	7' - 0"	FF	GL-A	EXG*	-	PNT		NEW DR IN EXG FRAME - PNT FRAME.
107	STORAGE	●		●		C	WD	-	6' - 0"	7' - 0"	FF	-	F1	HM	PNT		
109A	FAC SHOWER	●		●		A	HM	-	3' - 0"	7' - 0"	PNT	GL-A	F1	HM	PNT		
109B	GN RESTROOM	●		●		A	HM	20 MIN	3' - 0"	7' - 0"	PNT	GL-A	F1	HM	PNT		
110	TRAINING ROOM	●		●		B	HM	20 MIN	3' - 0"	7' - 0"	PNT	GL-A	F2	HM	PNT		
111A	ICE ROOM	●		●		B	WD		3' - 0"	7' - 0"	FF	GL-A	F1	HM	PNT		
111B	ICE ROOM	●		●		B	HM		3' - 0"	7' - 0"	PNT	GL-A	F1	HM	PNT		
112	ADMIN	●		●		B	WD	-	3' - 0"	7' - 0"	FF	GL-A	F2	HM	PNT		
113	ADMIN	●		●		A	WD		3' - 0"	7' - 0"	FF	GL-A	EXG*	-	PNT		NEW DR IN EXG FRAME - PNT FRAME.
114	STORAGE	●		●		A	WD		3' - 4"	7' - 0"	FF	GL-A	EXG*	-	PNT		NEW DR IN EXG FRAME - PNT FRAME.
204	FLEX / LOUNGE	●		●		D	WD	20 MIN	6' - 0"	7' - 0"	FF	GL-A	F1	HM	PNT		
205	CONFERENCE	●		●		C	WD		3' - 0"	8' - 0"	FF	GL-D	ALSF	AL	FF		
206	WOMEN'S RESTROOM	●		●		A	HM	-	3' - 0"	7' - 0"	PNT	GL-A	F1	HM	PNT		
207	CLASSROOM	●		●		B	HM	-	3' - 0"	7' - 0"	PNT	GL-A	F2	HM	PNT		
208	CLASSROOM	●		●		B	HM	-	3' - 0"	7' - 0"	PNT	GL-A	F2	HM	PNT		

GLAZING TYPES

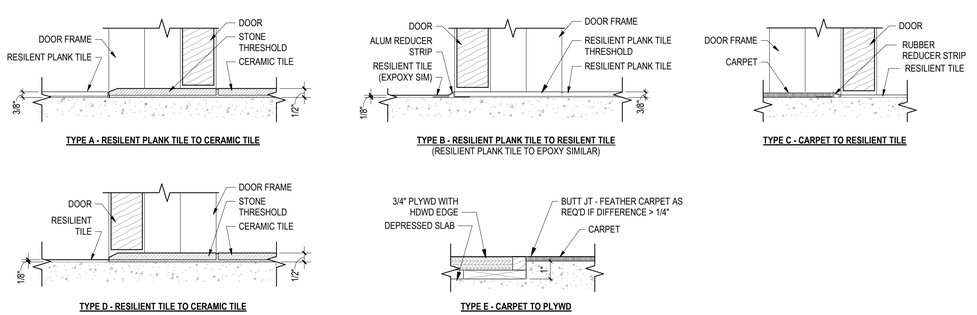
TYPE GL-A: 1/4" CLEAR FLOAT GLASS, TEMPERED.
TYPE GL-B: 1/4" CLEAR FLOAT GLASS.
TYPE GL-C: 1" CLEAR, LOW-E COATED, INSULATED GLAZING UNIT.
TYPE GL-D: 9/16" ANNEALED LAMINATED CLEAR GLASS, STC 38.
TYPE GL-E: 1" CLEAR, LOW-E COATED, INSULTATED GLAZING UNIT WITH ACID-ETCHED GLASS.

* GLAZING TO ADHERE TO CODE REQUIREMENTS IN RATED DOOR / SIDELITE APPLICATIONS.

TYPICAL INTERIOR DOOR FRAME DETAILS



TYPICAL INTERIOR DOOR FRAME DETAILS



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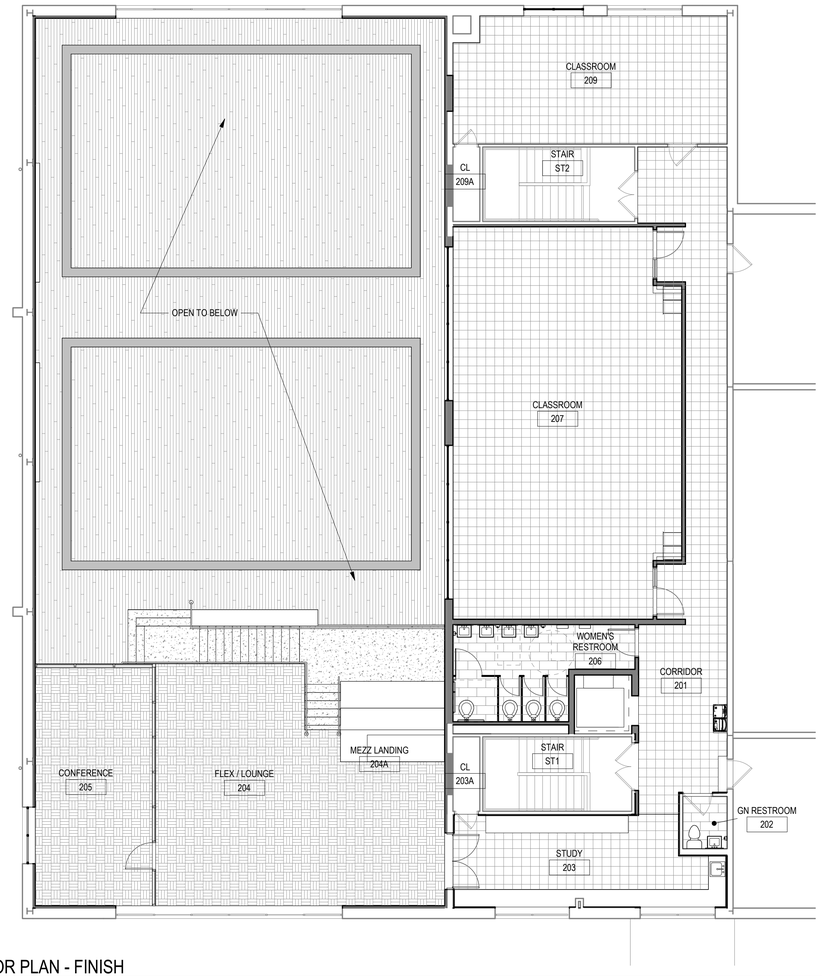
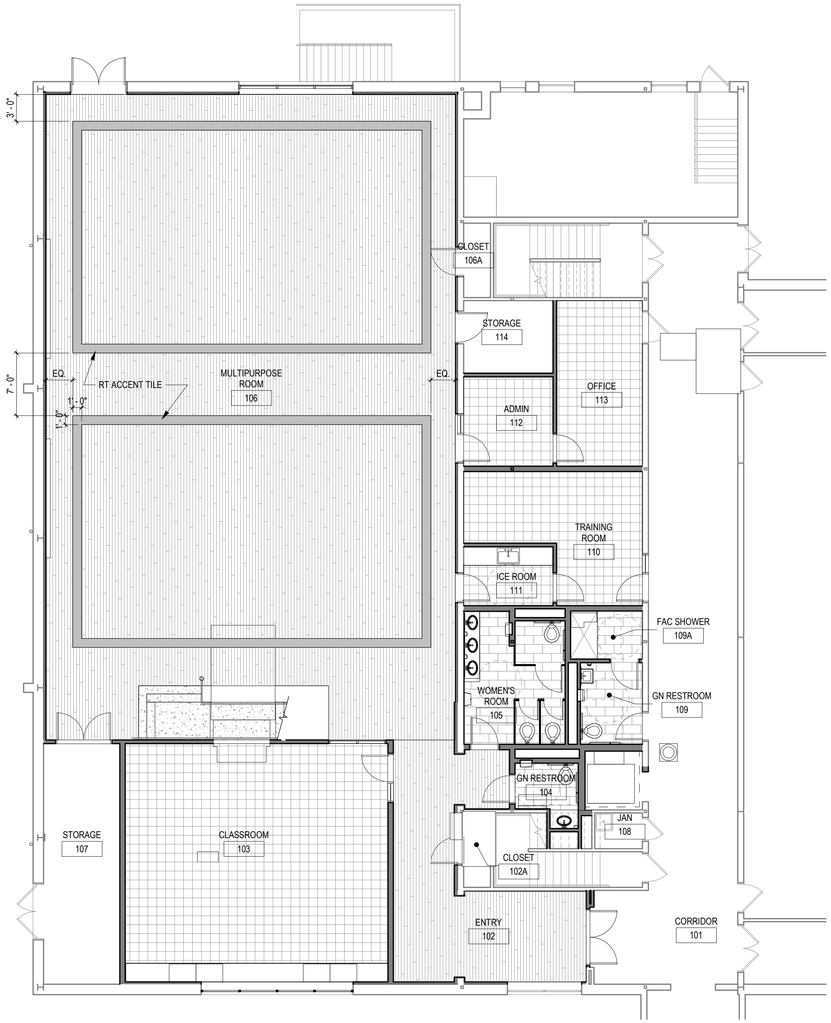


2 A9.2 SECOND FLOOR PLAN - FINISH
1/8" = 1'-0"



1 A9.2 FIRST FLOOR PLAN - FINISH
1/8" = 1'-0"

FINISHES KEY:

- RESILENT PLANK TILE - MAIN COLOR
- RESILENT PLANK TILE - ACCENT COLOR
- CARPET TILE
- TERRAZZO / TERRAZZO TILE
- RESILIENT TILE - COORIDOR
- RESILIENT TILE - CLASSROOM
- CERAMIC FLOOR TILE

FINISH SCHEDULE

ROOM		FLOOR		BASE			NORTH		EAST		SOUTH		WEST		CEILING		
NO	NAME	MAT	FIN	MAT	FIN	HT	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	NOTES
101	CORRIDOR	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	
102	ENTRY	RT	FF	RB	FF	4"	EXG	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT/GWB	FF/PNT	
102A	CLOSET	RT	FF	RB	FF	4"	EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ES	PNT	
103	CLASSROOM	RT	FF	RB	FF	4"	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT/GWB	FF/PNT	
104	GN RESTROOM	CT	FF	CT	FF	6"	GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	ACT	FF	CT WAINSCOTTING, TYP
105	WOMEN'S ROOM	CT	FF	CT	FF	6"	GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	ACT	FF	CT WAINSCOTTING, TYP
106	MULTIPURPOSE ROOM	RT	FF	RB	FF	4"	GWB/ACOUSTIC GWB	PNT	GWB/ACOUSTIC GWB	PNT	GWB	PNT	GWB/ACOUSTIC GWB	PNT	ES/ACOUSTIC PANELS	PNT/FF	
106A	CLOSET	RT	FF	RB	FF	4"	EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ES	PNT	
107	STORAGE	EPX	FF	EPX	FF	4"	GWB	PNT	GWB	PNT	EXG	PNT	EXG	PNT	ES	PNT	
108	JAN	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	EXG	
109	GN RESTROOM	CT	FF	CT	FF	6"	GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	ACT	FF	CT WAINSCOTTING, TYP
109A	FAC SHOWER	CT	FF	CT	FF	6"	GWB/CT	PNT	GWB/CT	PNT	GWB/CT	PNT	CT	FF	ACT/GWB	FF/PNT	CT WAINSCOTTING, TYP; FULL HT CT IN SHOWER
110	TRAINING ROOM	RT	FF	RB	FF	4"	GWB	PNT	EXG	PNT	GWB	PNT	GWB	PNT	ACT	FF	
111	ICE ROOM	RT	FF	RB	FF	4"	GWB	PNT	GWB	PNT	GWB	PNT	EXG	PNT	ACT	FF	
112	ADMIN	RT	FF	RB	FF	4"	GWB	PNT	EXG	PNT	GWB	PNT	EXG	PNT	ACT	FF	
113	OFFICE	EPX	FF	EPX	FF	4"	EXG	PNT	EXG	PNT	GWB	PNT	GWB	PNT	ACT	FF	
114	STORAGE	EPX	FF	EPX	FF	4"	EXG	PNT	GWB	PNT	GWB	PNT	EXG	PNT	ACT	FF	
201	CORRIDOR	RT	FF	RB	FF	4"	EXG	PNT	EXG	PNT	EXG	PNT	GWB	PNT	ACT	FF	
202	GN RESTROOM	CT	FF	CT	FF	6"	EXG/CT	PNT	EXG/CT	PNT	EXG/CT	PNT	EXG/CT	PNT	ACT	FF	CT WAINSCOTTING, TYP
203	STUDY	RT	FF	RB	FF	4"	EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ACT	FF	
203A	CL	RT	FF	RB	FF	4"	EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ACT	FF	
204	FLEX / LOUNGE	CPT	FF	RB	FF	4"	-	-	GWB/ACOUSTIC GWB	PNT	GWB	PNT	ALSF	FF	SUSP ACCENT WD	FF	
204A	MEZZ LANDING	RT	FF	RB	FF	4"	-	-	GWB	PNT	-	-	GWB	PNT	SUSP ACCENT WD	FF	
205	CONFERENCE	CPT	FF	RB	FF	4"	ALSF	FF	ALSF	FF	GWB	PNT	GWB	PNT	SUSP ACCENT WD	FF	
206	WOMEN'S RESTROOM	CT	FF	CT	FF	6"	GWB/CT	PNT	GWB/CT	PNT	EXG/CT	PNT	GWB/CT	PNT	ACT	FF	CT WAINSCOTTING, TYP
207	CLASSROOM	RT	FF	RB	FF	4"	GWB	PNT	GWB	PNT	GWB	PNT	GWB	PNT	ACT	FF	
209	CLASSROOM	RT	FF	RB	FF	4"	EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ACT	FF	
209A	CL	RT	FF	RB	FF	4"	EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ACT	FF	
210	MECH																
211	MECH																
ST1	STAIR	RT/RUBBER TREAD	FF	RB	FF	4"	EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ACT	FF	NEW RUBBER TREADS ON EXG CONC STAIRS; ALL EXG HANDRAILS TO BE PAINTED.
ST2	STAIR	RT/RUBBER TREAD	FF	RB	FF	4"	EXG	PNT	EXG	PNT	EXG	PNT	EXG	PNT	ACT	FF	NEW RUBBER TREADS ON EXG CONC STAIRS - 1ST TO 2ND FLOOR ONLY; EXG HANDRAILS 1ST TO 2ND FLOOR TO BE PAINTED.

OUR LADY OF MERCY ACADEMY

LEADERSHIP CENTER

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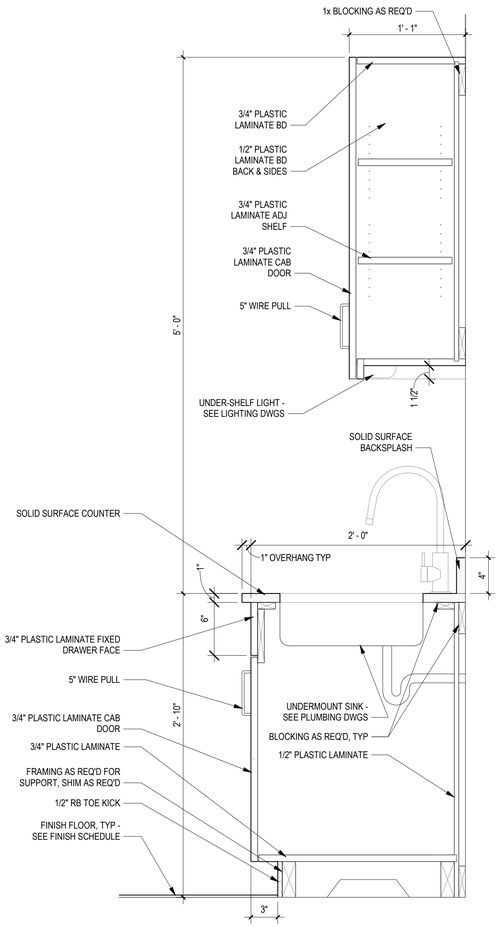
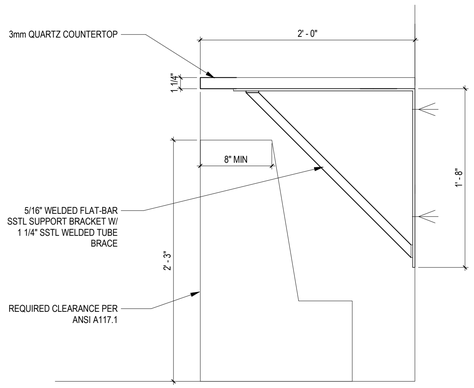
Drawing Title:
FINISH PLANS AND SCHEDULE

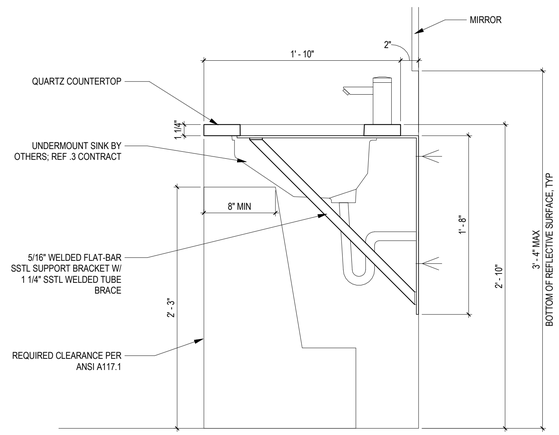
Drawing Number:
A9.2



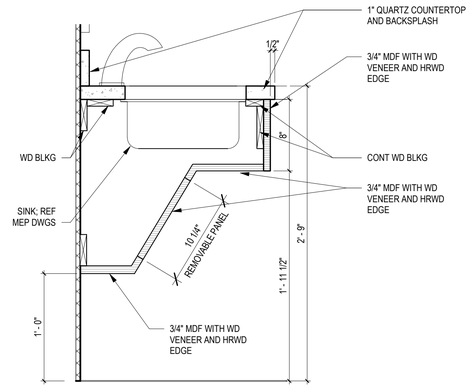
10 A10.0 CASEWORK - SINK BASE AND WALL CAB
1 1/2" = 1'-0"



9 A10.0 CASEWORK - COUNTER WALL MOUNT BRACKETS
1 1/2" = 1'-0"



8 A10.0 CASEWORK - COUNTERMOUNT SINK
1 1/2" = 1'-0"



7 A10.0 105 - N - SINK DETAIL
1 1/2" = 1'-0"

OPEN SHELVING

6 A10.0 CASEWORK - BASE
1 1/2" = 1'-0"

WITHOUT DRAWER

WITH DRAWER

5 A10.0 ENLARGED JAMB DETAIL AT EXG CMU
1 1/2" = 1'-0"

4 A10.0 ALSF TO EXG WDW MULLION
1 1/2" = 1'-0"

3 A10.0 SHAFT WALL TO PARTITION AT SECOND FLOOR
1 1/2" = 1'-0"

2 A10.0 SHAFT WALL TO EXG CMU AT SECOND FLOOR
1 1/2" = 1'-0"

1 A10.0 SHAFT WALL TO PARTITION AT FIRST FLOOR
1 1/2" = 1'-0"

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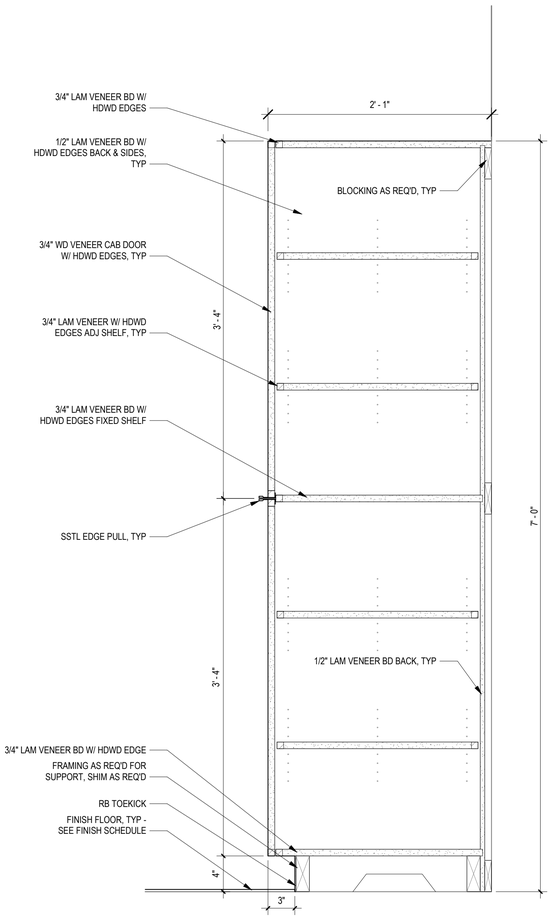

1 / A10.1 FULL HEIGHT CABINET DETAIL

1 1/2" = 1'-0"

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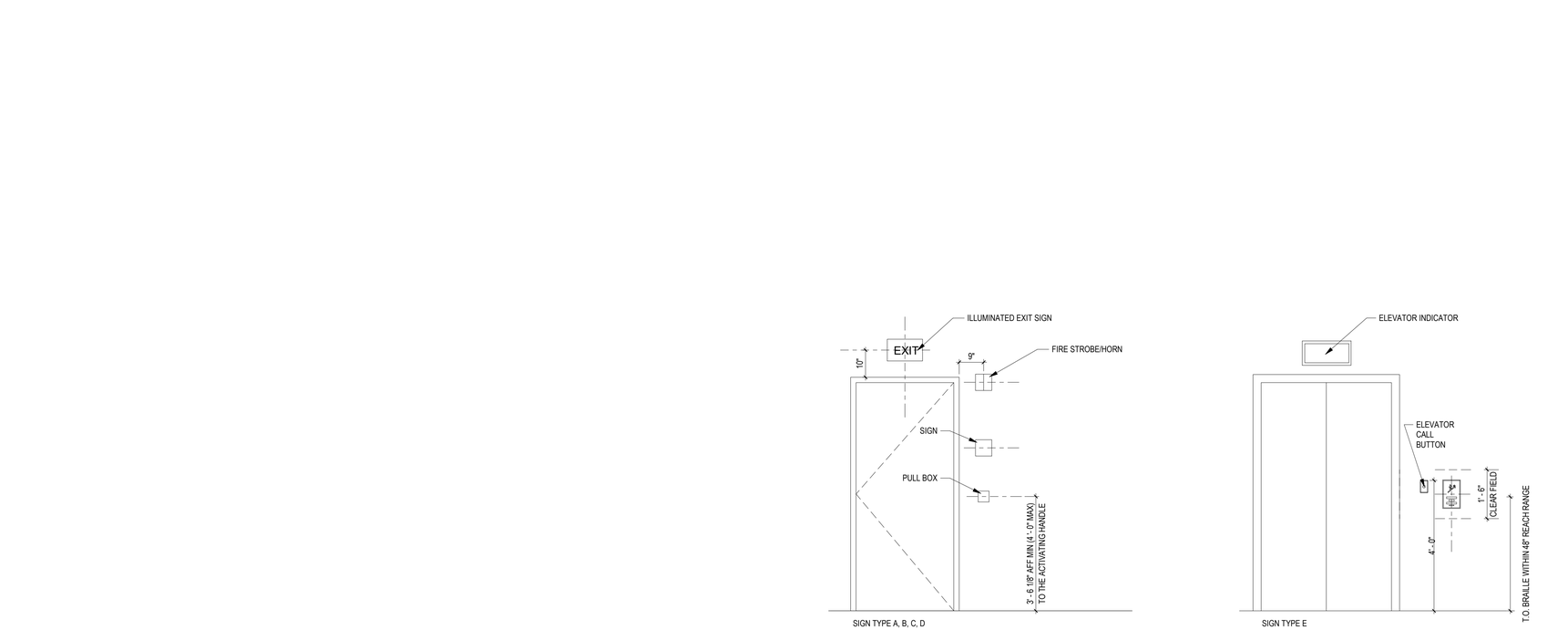
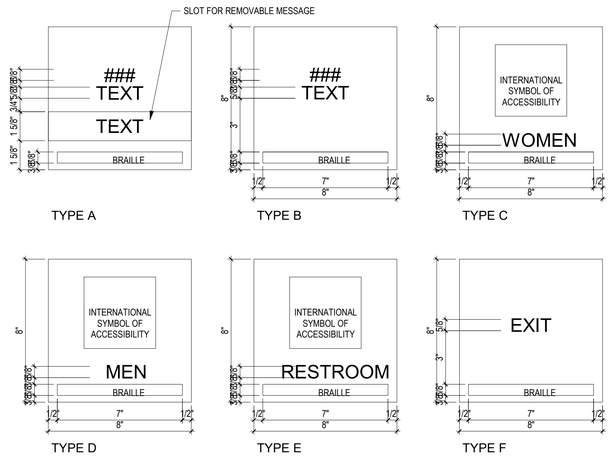
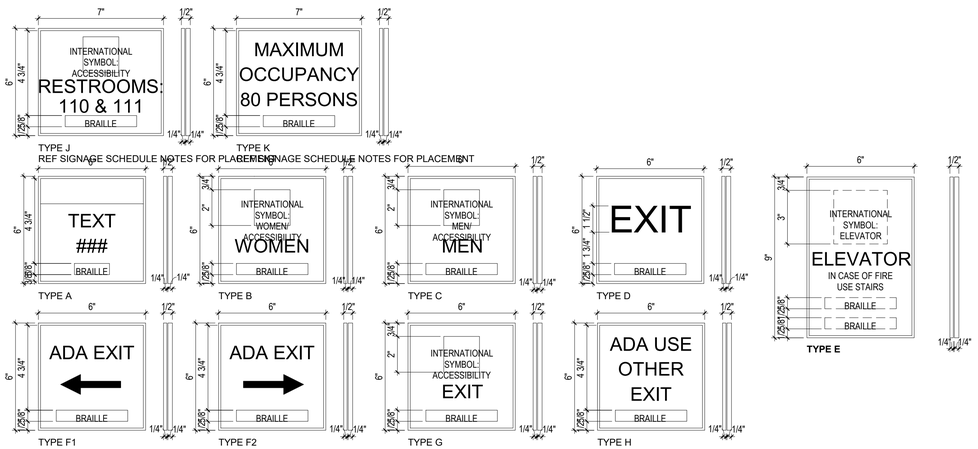


2 A11.0 SIGNAGE AND DEVICE PLACEMENT
1/2" = 1'-0"



1 A11.0 SIGNAGE TYPES
3" = 1'-0"



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Job Number: 786

File:

Date: 4.26.2024

Drawing Set: PERMIT SET SUBMISSION

Drawing Title: SIGNAGE

Drawing Number: A11.0

STRUCTURAL NOTES

GENERAL

1. Comply with latest editions of applicable local and state building codes and regulations, including but not limited to 2021 International Building Code.
2. Use structural drawings in conjunction with architectural, mechanical, electrical, plumbing, and civil drawings and project specifications.
3. Existing conditions and measurements shown on these drawings are approximate.
4. Verify all conditions and dimensions prior to starting work. If conditions differ from those shown, notify Architect immediately.
5. See Site Plan and architectural drawings for project datum.
6. Perform work under job-site conditions recommended by referenced codes and specifications, by materials suppliers, and which are acceptable under standard industry practice.
7. Provide periodic and final clean up and coordinate work with Owner to establish access to workplace and for staging and storage areas.
8. Protect existing construction and utilities during construction.
9. Notify Architect if there are apparent inconsistencies between structural plans, notes, details, and specifications prior to proceeding with affected portion of the work.
10. All details shown on structural drawings are to be considered typical throughout project, UNO.
11. All typical details not cut on plan apply at all appropriate locations. Coordinate typical details.
12. Submit product data for proposed substitutions demonstrating equivalence to specified products shown on drawings.
13. Structure is designed to be self-supporting and stable after construction is complete. Contractor is solely responsible for construction means and methods, including techniques and sequences of procedures.
14. Contractor is solely responsible for design and construction of all shoring and bracing necessary to protect existing construction and to complete work shown on these drawings.

STRUCTURAL LOADS

1. Design Loads Per 2021 International Building Code:

Building Occupancy Category: II

Live Loads:

Floor Live Load: 100 psf.

Roof Live Load: 20 psf.

Snow Loads:

P_g = 20 psf, P_f = 20 psf, C_e = 0.9, I_s = 1.1, C_t = 1.0.

FOUNDATIONS

1. Verify minimum allowable soil bearing capacity of 2,000 psf for footings.
2. Place footings on firm, dry, non-frozen subgrade.
3. Remove unsuitable soil encountered during excavation for foundations. Backfill these excavations and areas requiring structural fill with clean ML or better borrow (per ASTM D2487) placed in 8" maximum lifts. Compact to 95% maximum dry density as determined by modified proctor test (ASTM D1557).

CONCRETE

1. Comply with latest editions of American Concrete Institute ACI 301 "Specification for Structural Concrete for Buildings," ACI 318 "Building Code Requirements for Structural Concrete," ACI 305 "Hot Weather Concreting," and ACI 306 "Cold Weather Concreting."
2. Compressive strength at 28 days: Footings, 3,000 psi. Piers and elevated slabs, 4,000 psi (0.45 maximum w/c ratio).
3. Reinforcing steel: ASTM A615, Grade 60 deformed bars. Provide standard hooks on dowels into piers.
4. Welded wire fabric: ASTM A185, flat sheets.
5. Lap all reinforcing bars 48 bar diameters. Lap all WWF 12" minimum.
6. Provide 3/4" chamfer on exposed edges and corners.
7. Submit certified mix design and complete set of shop drawings for reinforcing steel.

CONCRETE PIERS

1. Provide concrete piers as shown, with tops of piers 8" below top of slab, UNO.
2. Center piers under columns, UNO.
3. Center reinforcing cages under columns, UNO.
4. Provide #3 ties, top three at 4" centers, balance at 12" centers.
5. Provide standard hook on vertical reinforcing.

ELEVATED SLAB

1. Provide 4" concrete slab with 6x6 W1.4xW1.4 WWF 3/4" below top of slab, UNO.
2. Slab thickness to be measured from top of slab to bottom of metal deck, UNO.
3. Place and finish slab for Floor Surface Classification of "Flat" per ACI 117 (1/4" maximum gap 90% compliance, 3/8" maximum gap 100% compliance).

CONCRETE MASONRY

1. Comply with latest editions of American Concrete Institute ACI 530 "Building Code Requirements for Masonry Structures" and ACI 530.1 "Specifications for Masonry Structures."
2. Hollow loadbearing units ASTM C90. Compressive strength f'm = 2,500 psi.
3. Mortar ASTM C270 Type S.
4. Grout ASTM C476 Coarse.
5. Reinforcing steel ASTM A615, Grade 60 deformed bars, with minimum lap splice of 48 bar diameters, UNO.
6. Provide two vertical rebars at corners and wall ends and both sides of door and window openings, UNO.
7. Horizontal joint reinforcement ASTM A1064 and A951, galvanized 0.1 oz/sf per ASTM A641 or hot-dip galvanized 1.5 oz/sf per ASTM A153. Truss type with 3/16" diameter side rods and 9 gauge cross rods. Provide in every other course (16" centers). Provide joint reinforcement in all masonry walls, including non-bearing partitions.
8. Discontinue joint reinforcement at control joints.
9. Grout masonry solid below beam bearings. Extend grouted cores 1'-4" horizontally on both sides of beam and 2'-0" below beam
10. Grout masonry solid full height of vertical reinforcing.
11. Provide control joints in CM walls at spacing of 3 times wall height or 35', whichever is less.

STEEL

1. Comply with latest editions of American Institute of Steel Construction "AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings" and "AISC Code of Standard Practice".
2. Wide Flange members ASTM A992, Grade 50. Channels, Bars, angles, and plates ASTM A36. Tubing ASTM A500, Grade C.
3. Typical connections double 5/16" angle clips, full depth, UNO.
4. Typical tube connections 3/8" shear tabs, full depth, UNO.
5. Provide cap plate for all tube columns, UNO.
6. Other connections and gussets 3/8" plate, UNO.
7. Fasteners Group A (ASTM F3125, Grade A325, Type 1), 3/4" diameter, for Type N connection, UNO.
8. All bolted connections to have minimum 2 bolts, UNO. Bolts at 3" spacing, UNO.
9. Threaded rods ASTM A36.
10. Welds comply with AWS D1.1 "Structural Welding Code," with low hydrogen electrodes.
11. Steel to be exposed and painted - see architectural drawings. Clean in accordance with SSPC SP-3. Prime with SSPC paint 25 type 2.
12. See architectural drawings for fire resistance requirements, including steel surface preparation.
13. Galvanize all framing, members, and connections permanently exposed to weather, including lintels, ASTM A153 Class C.
14. Provide continuous 1/4" angle pour stop around perimeter of elevated slabs and at all openings. Vertical and horizontal legs to match slab thickness, UNO.
15. Bearing plates 3/4" minimum thickness, UNO.
16. Bearing plates with two 1/2" diameter by 4" studs embedded in solid grouted masonry. Weld beam to plate with 3/16" fillet at least 4" long on both sides. Inset bearing plates 3/4" minimum from face of masonry.
17. Provide bearing plate for all steel beams bearing on masonry walls, UNO.
18. Non-shrink, non-metallic, high early strength grout for base and bearing plates, minimum 3/4" thick.
19. Submit complete set of shop drawings
20. Steel fabricator to survey and verify existing conditions prior to fabrication of steel members.

COMPOSITE DECK

1. Comply with latest editions of Steel Deck Institute "Design Manual for Floor Decks and Roof Decks" and American Iron and Steel Institute "Specification for the Design of Cold Formed Steel Structural Members".
2. Welding comply with AWS D1.3 "Structural Welding Code - Sheet Steel."
3. Provide 1-1/2" 18-gauge composite floor deck, minimum 50 ksi yield strength, G60 coating, minimum 3 span lengths, UNO.
4. Provide 20-gauge galvanized pour stops, closure strips, plates, and shapes. Provide plates, shapes, or structural steel angles to carry deck at discontinuities in supporting steel framing.
5. Fasten deck and accessories to supporting steel with 3/4" puddle welds at 12" centers or equivalent self-drilling screws.
6. Fasten side laps at maximum 36" centers.
7. Submit complete set of shop drawings.

ROOF DECK

1. Comply with latest editions of Steel Deck Institute "Design Manual for Floor Decks and Roof Decks" and American Iron and Steel Institute "Specification for the Design of Cold Formed Steel Structural Members".
2. Welding comply with AWS D1.3 "Structural Welding Code - Sheet Steel."
3. Provide 1-1/2" 22-gauge Type B roof deck, minimum 50 ksi yield strength, G60 coating, minimum 1 span lengths, UNO.
4. Extend deck over and connect to all roof framing.
5. Provide 20-gauge galvanized closure strips, plates, and shapes. Provide plates, shapes, or structural steel angles to carry deck at openings and at discontinuities in supporting steel framing.
6. Secure deck and accessories to supporting steel with 3/4" puddle welds at 18" centers or equivalent self-drilling screws.
7. Fasten side laps at maximum 36" centers if span exceeds 5'.
8. Submit complete set of shop drawings.

COLD FORM STEEL FRAMING - DELEGATED DESIGN

1. Information shown or noted, including member sizes, spacing, details, hangers, connectors, fastenings, and permanent member bracing, is given only to serve as basis of cost estimating. Final design of all framing and accessories to be provided by Cold Form Steel Framing supplier.
2. Comply with latest edition of American Iron and Steel Institute "Specification for the Design of Cold Formed Steel Structural Members".
3. Welding comply with AWS D1.3 "Structural Welding Code - Sheet Steel."
4. Member sizes shown on drawing refer to SSMA standard sizes. Fy = 33 ksi for 20 and 18-gauge members, Fy = 50 ksi for 16, 14, 12, and 10-gauge members, UNO. Provide equivalent products by single manufacturer.
5. Galvanize all members and accessories, minimum G60 coating.
6. Coordinate with architectural drawings for extent of cold-form framing.
7. Provide standard tracks, blocking, stiffeners, clips, and reinforcements in accordance with manufacturer's recommendations. Install, fasten, and brace all members and accessories in accordance with manufacturer's recommendations for particular application as needed to achieve complete metal framing system.
8. Align joists directly with bearing studs.
9. Provide built-up box headers for all openings greater than stud spacing. Provide double studs each side to support each end of header, UNO.
10. Attach tracks to foundation or supporting structural component. At track butt joints, tracks must be anchored to common structural element.
11. Provide slip joints where non-bearing vertical studs meet structural member. Allow 3/4" vertical deflection at slip joints.
12. Provide No. 10 TEK/3 screws of appropriate length at all connections, UNO. Provide minimum penetration of 3 exposed threads through joined material.
13. Blocking, bracing, and bridging per manufacturer's printed instructions must be installed prior to loading.
14. Submit complete set of shop drawings for framing, hangers, connectors, permanent web bracing, and temporary bracing sealed by Professional Engineer registered in New Jersey.

ANCHORS IN CONCRETE AND MASONRY

1. See drawing call-outs and other notes for additional information.
2. Equivalent products by Simpson, Powers, or Red Head may be substituted.
3. Install fasteners in accordance with manufacturer's printed instructions, including substrate preparation.
4. Epoxy Anchor in Concrete: Hilti HIT-HY 200 epoxy.
5. Epoxy Anchor in Hollow Concrete Masonry: Hilti HIT-HY 270 epoxy with applicable HIT-SC screen, HIT-IC insert, or HIS-N insert to suit application.
6. Epoxy Anchor in Brick Masonry: Hilti HIT-HY 270 epoxy with applicable HIT-SC screen, HIT-IC insert, or HIS-N insert to suit application.
7. Expansion Anchor in Concrete: Hilti KWIK Bolt TZ.
8. Expansion Anchor in Solid Masonry: Hilti KWIK Bolt TZ.
9. Expansion Anchor in Hollow Concrete Masonry: Hilti HLC.
10. Concrete Screw in Concrete: Hilti KWIK HUS-EZ.
11. Powder Actuated Fastener (PAF) in Concrete: Hilti X-U, 0.157" diameter, head to suit application.
12. Powder Actuated Fastener (PAF) in Solid Masonry: Hilti X-U, 0.157" diameter, head to suit application.

ABBREVIATIONS

Standard abbreviations per CSI Uniform Drawing System

AB	anchor bolt
ABV	above
ADJ	adjacent
AFF	above finish floor
ALT	alternate
APPROX	approximate
ARCH	architect, architectural
BC	bottom chord
BCX	bottom chord extension
BEF	bottom of existing footing
BEGB	bottom of existing grade beam
BLDG	building
BLKG	blocking
BOF	bottom of footing
BOT	bottom
BRG	bearing
BS	both sides
BW	both ways
CIP	cast in place
CJ	control joint
CLG	ceiling
CLR	clear
CM	concrete masonry
COL	column
CONC	concrete
CONN	connection, connect
CONST	construction
CONT	continuous
DBL	double
DET	detail
DIA	diameter
DIM	dimension
DWG	drawing
EA	each
EL	elevation
EQ	equal
EQUIP	equipment
EW	each way
EXIST	existing
EXP	expansion
EXT	exterior
FDN	foundation
FIN	finish
FL	flange
FLR	floor
FS	far side
FTG	footing
GA	gage
GALV	galvanized
GR	grade
GR BM	grade beam
HORIZ	horizontal
HT	height
INT	interior
JST	joist
JT	joint
LLH	long leg horizontal
LLV	long leg vertical
LONG	longitudinal
MASY	masonry
MAX	maximum
MECH	mechanical
MIN	minimum
MISC	miscellaneous
NOM	nominal
NS	near side
NTS	not to scale
OC	on center
OPNG	opening
OPP	opposite
PSF	pounds per square foot
PSI	pounds per square inch
R	radius
REINF	reinforcing, reinforced
REQD	required
SCHED	schedule
SECT	section
SIM	similar
SOG	slab on ground
SPEC	specification
SQ	square
STD	standard
T&B	top and bottom
T&G	tongue and groove
TCX	top chord extension
TEF	top of existing footing
THK	thick
TOC	top of concrete
TOF	top of footing
TOM	top of masonry
TOS	top of steel
TOW	top of wall
TRANS	transverse
TYP	typical
UNO	unless noted otherwise
VERT	vertical
VIF	verify in field
W	with
W/O	without
WP	working point
WT	weight
WWF	welded wire fabric

SYMBOLS

(A)	existing
(B)	slope
@	at

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No.	Date	Revisions

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Drawn: MCM | Checked: MBH | Approved: MBH

Job Number: 5352
File:

Date: 4.26.2024

Drawing Set: PERMIT SET SUBMISSION

Drawing Title: NOTES & ABBREVIATIONS

Drawing Number: S0.0

DECK SCHEDULE

MARK	METAL DECK	TOTAL SLAB DEPTH + CONCRETE WEIGHT	SLAB REINFORCING
S1	1 -1/2" 18 GA COMPOSITE	4" NORMAL-WEIGHT	6X6 W1.4XW1.4 WWF
S2	1 -1/2" 20 GA TYPE B ROOF	N/A	N/A

FOOTING SCHEDULE

MARK	SIZE	REINFORCING	REMARKS
F2	2'-0"x2'-0"x1'-0"	(3) #4 EW	
F4	4'-0"x4'-0"x1'-0"	(5) #4 EW	

NOTES: 1. Top of exterior footing -2'-8" relative to top of slab = 0'-0", UNO. 2. Top of interior footing -0'-8" relative to top of slab = 0'-0", UNO. 3. (;X'-X") Denotes top of footing if other than -2'-8" or 0'-8". 4. Place exterior footings at elevations noted or so bottom of footings is 3'-0" minimum below finish grade, whichever is deeper. 5. Place horizontal reinforcing 3" clear above footing bottom, UNO. 6. Place dowels in footings to match vertical reinforcing in walls and piers. 7. Center footings under columns and walls, UNO. 8. Step footings as required. 9. Step footings as required so bottom of footing equals bottom of adjacent existing footing. 10. Allowable bearing capacity 2000 psf.

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	REMARKS
C1	HSS6x6x3/8	1'-0"x3/4"x1'-0"	
C2	HSS6x6x3/8	8"x3/4"x1'-0"	PROVIDE (4) 3/4" DIA THREADED RODS W/ 9" EMBED
C3	HSS4x4x3/8	8"x3/4"x1'-0"	PROVIDE (4) 3/4" DIA A325 BOLTS
C4	HSS4x4x3/8		HANGER
C5	HSS4x4x3/8	0'-10"x3/4"x0'-10"	PROVIDE 3/4" DIA THREADED RODS @ ANCHORS INSTALLED INTO EXIST CONC
CA			COLUMN ABOVE

NOTES: 1. Provide four 3/4" diameter ASTM F1554 Grade 36 anchor rods with 2" hook and 9" embedment per base plate, one per corner, UNO. 2. Set base plate on 3/4" non-shrink, non-mettallic, high early strength grout.

LEDGER SCHEDULE

MARK	TYPE	REMARKS
L1	CONT L4x4x3/8 W/ 3/4" DIA THREADED RODS @ 16" W/ 6" EMBED INTO GROUTED CELLS	

LINTEL SCHEDULE

MARK	MAX SPAN	TYPE	MIN BRG	REMARKS
LL1	4'-0"	L3-1/2x3-1/2x5/16 OR 4x8 PRECAST W/ #3 T&B	4" 8"	
LL2	6'-0"	L4x3-1/2x5/16 OR 4x8 PRECAST W/ #3 T & #4 B	4" 8"	
LL3	8'-0"	L5x3-1/2x5/16 OR 4x8 PRECAST W/ #3 T & #5 B	4" 8"	

NOTES: 1. Provide one precast unit or steel angle for each 4" thickness of supported masonry, UNO. 2. Provide lintels per max span above for openings in masonry partitions and for other masonry openings not shown on structural drawings, see architectural and mechanical drawings. 3. Galvanize exterior angles. 4. Provide minimum specified bearing on solid or solid grouted masonry. 5. Long leg vertical angles, UNO.

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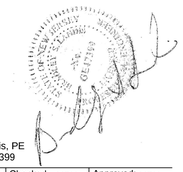

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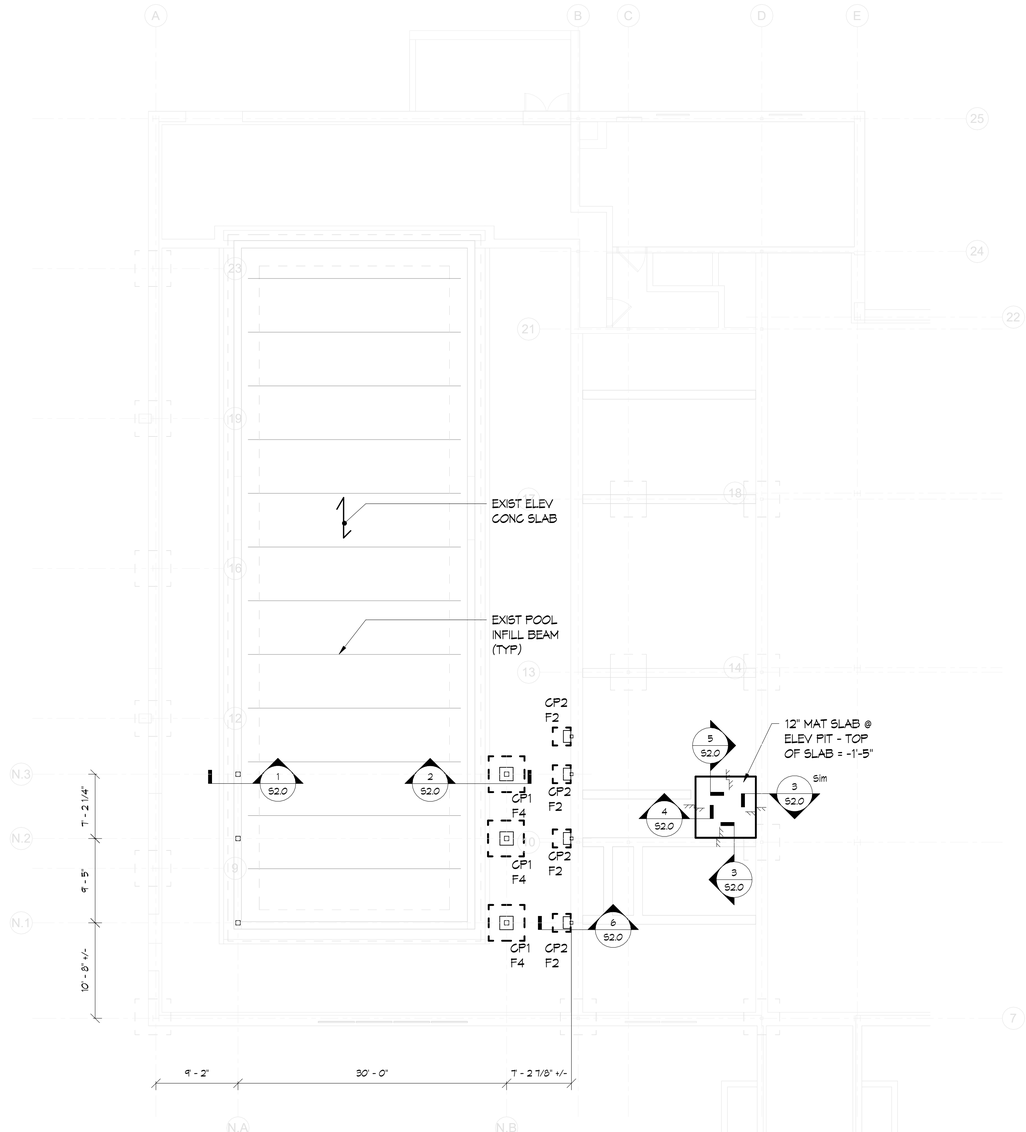
Job Number: 5352
File:

Date: 4.26.2024

Drawing Set: PERMIT SET SUBMISSION

Drawing Title: SCHEDULES

Drawing Number: S0.1



1
S1.0

FOUNDATION/FIRST FLOOR FRAMING PLAN

1/8" = 1'-0"

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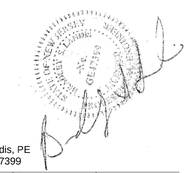

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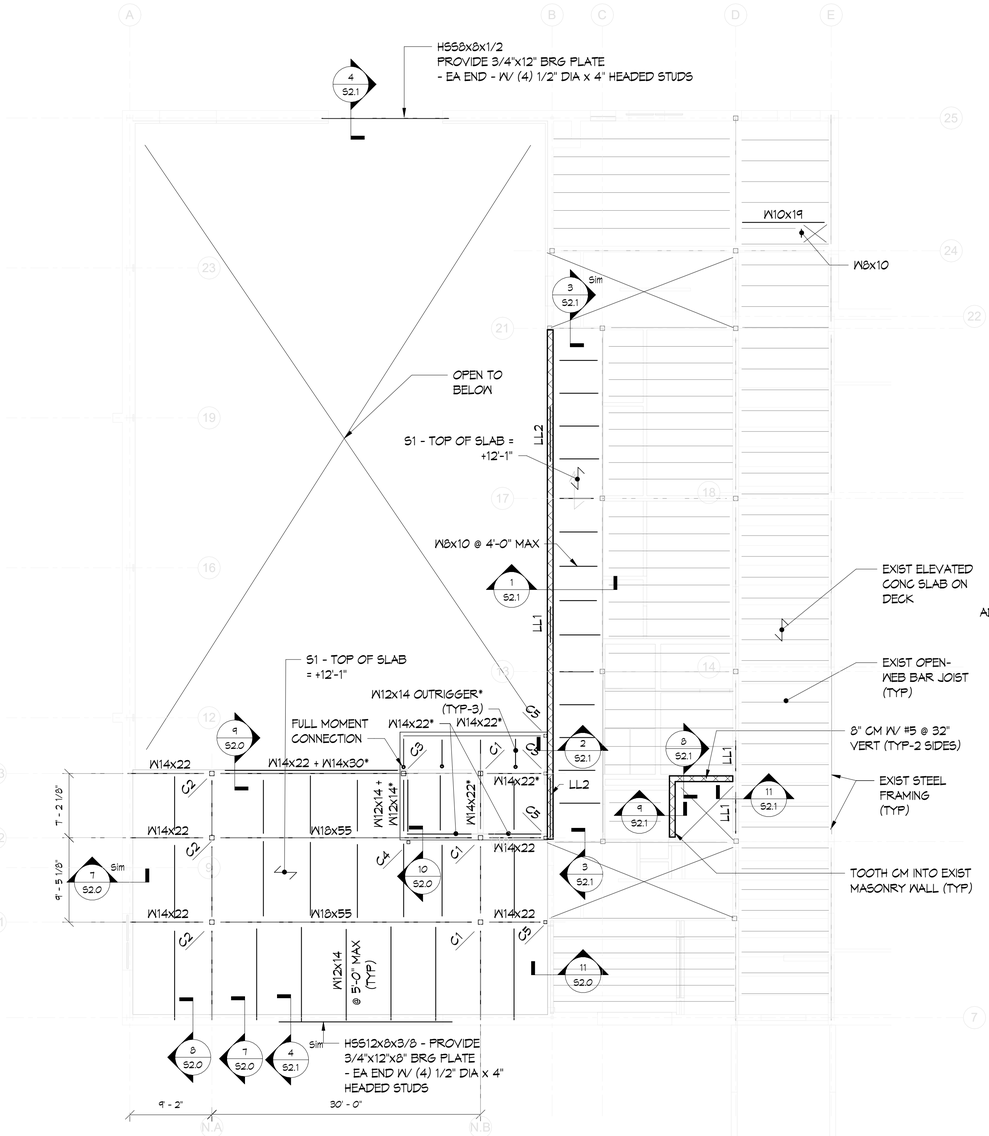
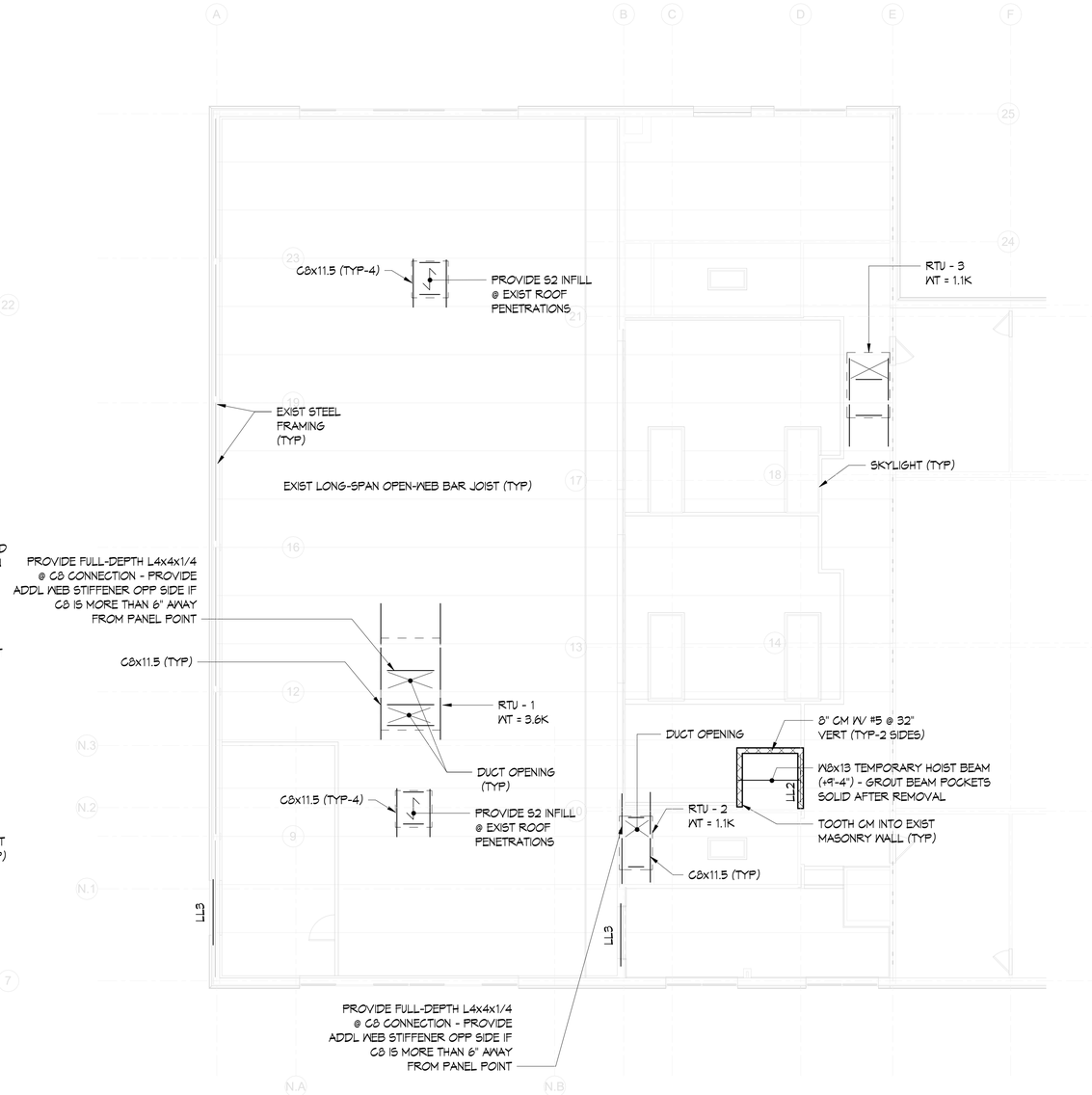
Drawing Title:
FRAMING PLANS

Drawing Number:
S1.0





8 / S1.1 SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

NOTES: TOP OF STEEL = (-0'-4") BELOW TOP OF ELEVATED SLAB = (+12'-1"). ELEVATIONS NOTED (+/- x'-x") ARE RELATIVE TO TOP OF SECOND FLOOR SLAB = (+12'-1").

*DENOTES TOP OF STEEL (-3'-10").

2 / S1.1 ROOF FRAMING PLAN

1/8" = 1'-0"

NOTES: ELEVATIONS NOTED (+/- x'-x") ARE RELATIVE TO TOP OF SECOND FLOOR SLAB = (+12'-1").

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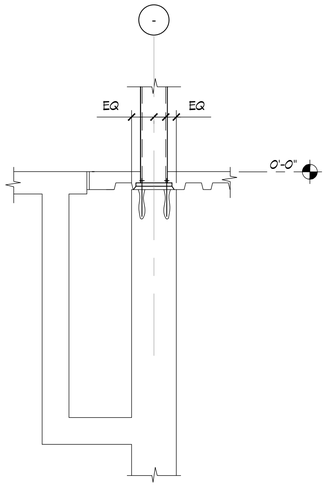
Drawing Title: FRAMING PLANS

Drawing Number: S1.1



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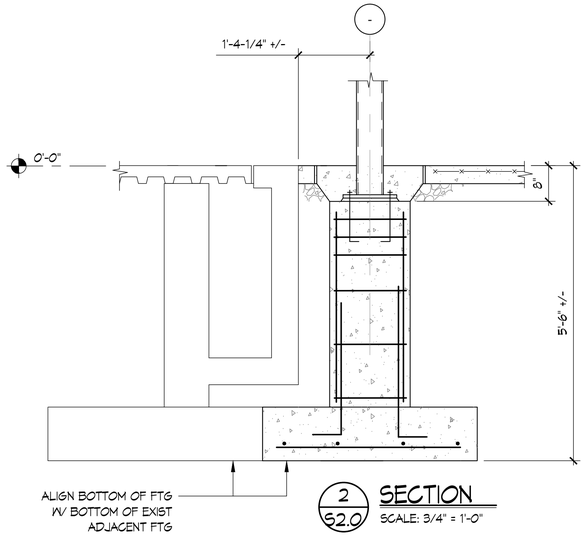

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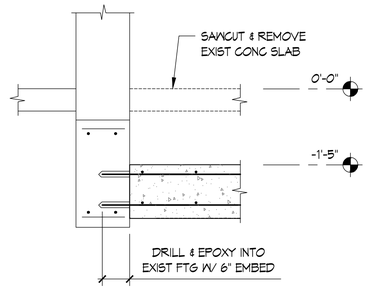

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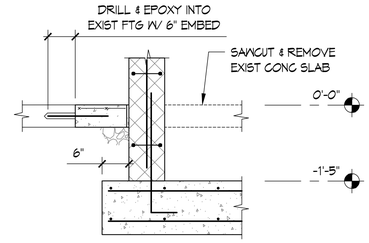

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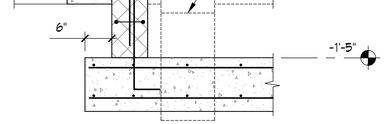

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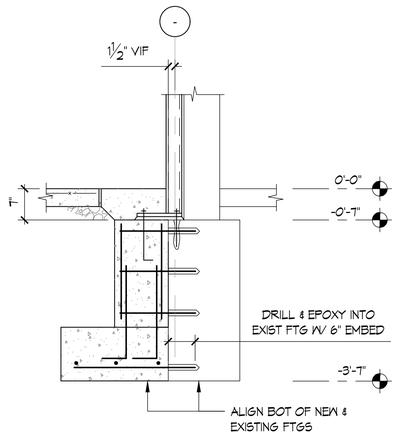

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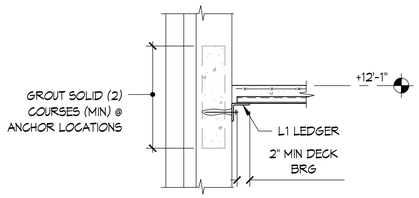

7 S2.0 SECTION
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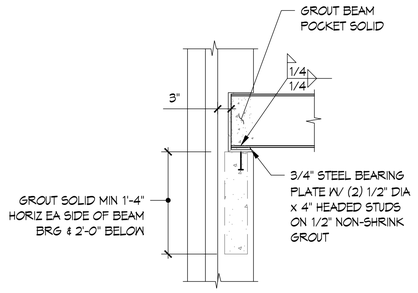

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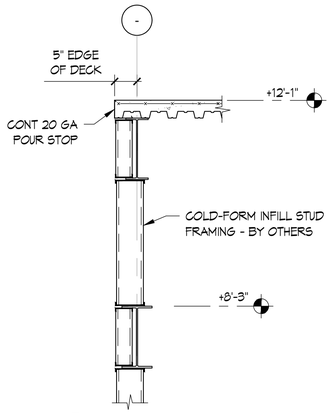

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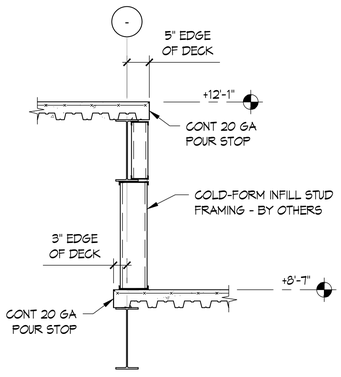

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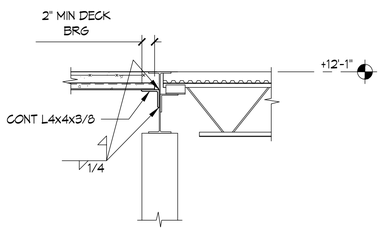

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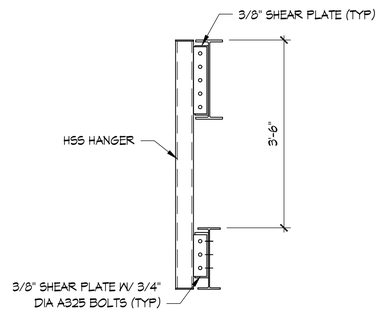

12 S2.0 TYP HANGER DETAIL
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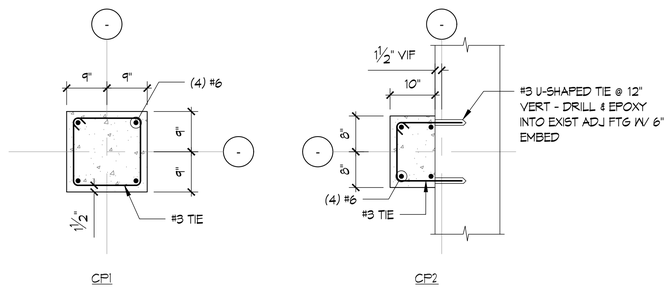

13 S2.0 PIER DETAILS
SCALE: 3/4" = 1'-0"

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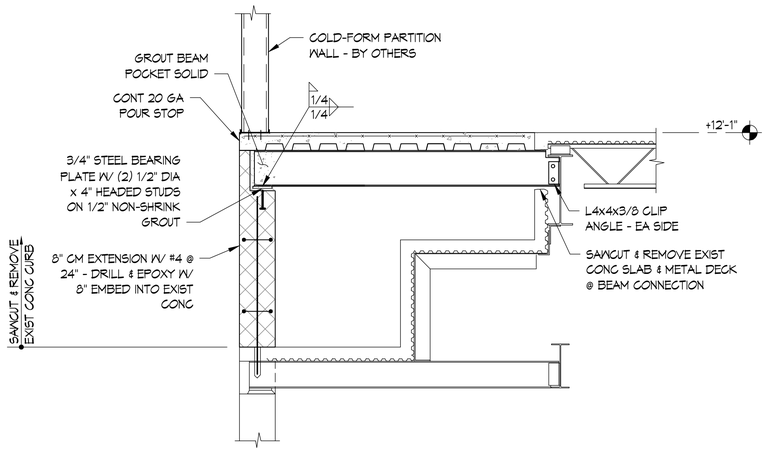

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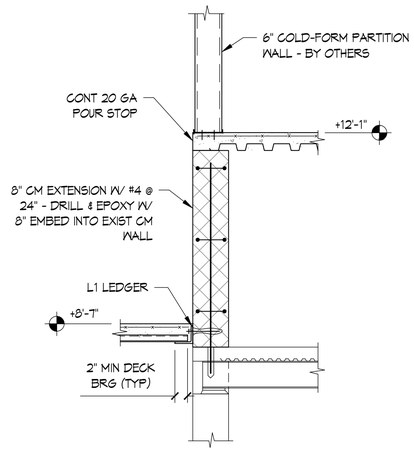
SCALE: 3/4" = 1'-0"



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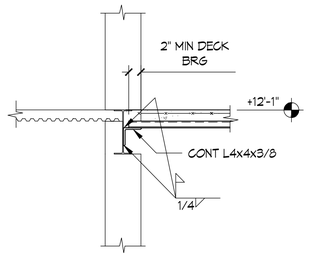

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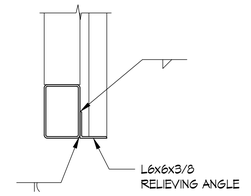

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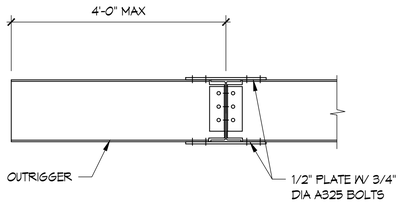

5 S2.1 **TYP FULL MOMENT CONNECTION**
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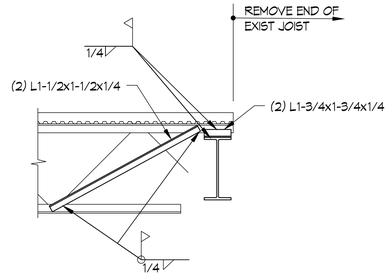

6 S2.1 **TYP CUT JOIST**
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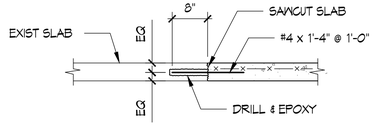

7 S2.1 **TYP NEW-EXIST SLAB DETAIL**
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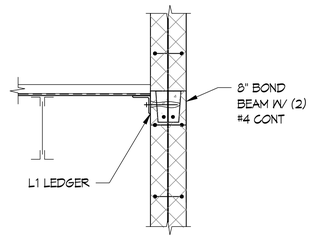
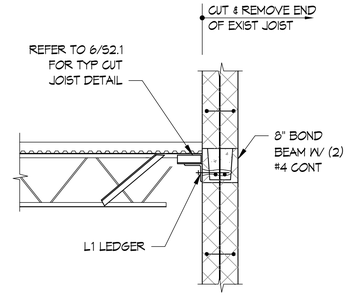


8 S2.1 **SECTION**
SCALE: [" = 1'-0"



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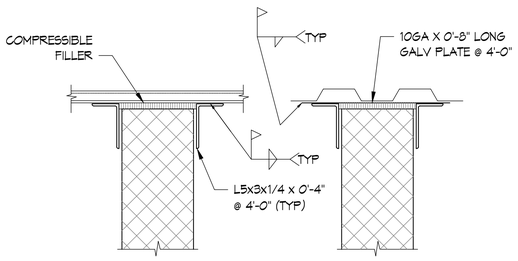

10 S2.1 **TYP CM WALL BRACING**
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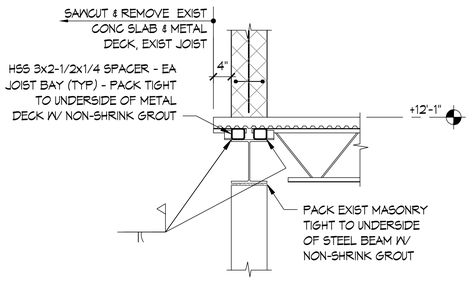

11 S2.1 **SECTION**
SCALE: [" = 1'-0"

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Drawing Title: SECTIONS & DETAILS

Drawing Number: S2.1

SYMBOL LIST

- SINGLE LINE MECHANICAL ITEM, NEW
- SINGLE LINE DUCTWORK WITH A.L., NEW
- SINGLE LINE MECHANICAL ITEM, EXISTING
- MECHANICAL ITEM TO BE REMOVED
- DUCTWORK WITH ACOUSTIC LINING
- DUCT UNDER PRESSURE (SUPPLY AIR OR FAN DISCHARGE)
- DUCT UNDER NEGATIVE PRESSURE (RETURN OR EXHAUST)
- VD — VOLUME DAMPER
- COD — CABLE OPERATED DAMPER
- FD — FIRE DAMPER AND ACCESS DOOR
- R — RISE IN DUCTWORK
- D — DROP IN DUCTWORK
- FSD — FIRE/SMOKE DAMPER AND ACCESS DOOR
- MD — MOTORIZED DAMPER AND ACCESS DOOR
- ALD — AUTOMATIC LOUVER DAMPER AND ACCESS DOOR
- SP — STATIC PRESSURE SENSOR
- L — DOOR LOUVER
- UC — UNDERCUT DOOR
- POINT OF CONNECTION
- POINT OF DISCONNECTION
- (100) — RECTANGULAR CEILING DIFFUSER, 4-WAY THROW, 100 CFM
- (100) — 3-WAY DIFFUSER, 100 CFM
- (100) — 2-WAY DIFFUSER, 100 CFM
- CEILING GRILLE
- (100) — CEILING REGISTER, 100 CFM
- ⌀ W.O. — TRANSFER AIR WALL OPENING. (SQ. FT.)
- FC — DUCT FLEXIBLE CONNECTION
- T — THERMOSTAT, TEMPERATURE SENSOR
- SQUARE FOOT
- SD — SMOKE DETECTOR (DUCT MOUNTED) WITH ACCESS DOOR

ABBREVIATIONS

ACCU	AIR-COOLED CONDENSING UNIT
AC	AIR-CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR-HANDLING UNIT
AL	ACOUSTICAL LINING
ATC	AUTOMATIC TEMPERATURE CONTROL
BHP	BRAKE HORSEPOWER
BR	BOTTOM REGISTER
BMS	BUILDING MANAGEMENT SYSTEM
BTUH	BTU PER HOUR
CFM	CUBIC FEET PER MINUTE
COD	CABLE OPERATED DAMPER
CP	CONDENSATE PUMP
CD	CEILING DIFFUSER
CG	CEILING GRILLE
CR	CEILING REGISTER
DB	DRY BULB TEMPERATURE
(E)	EXISTING
EWT	ENTERING WATER TEMPERATURE
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
°F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FLA	FULL LOAD AMPERE
FSD	FIRE SMOKE DAMPER
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GX	GENERAL EXHAUST
HP	HORSEPOWER
KX	KITCHEN EXHAUST
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
LD	LINEAR DIFFUSER
MBH	THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFS	MAXIMUM FUSE SIZE
(N)	NEW
NO.	NUMBER
PD	PRESSURE DROP
PHX	PLATE FRAME HEAT EXCHANGER
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
(R)	RELOCATE
RPM	REVOLUTIONS PER MINUTE
SP	STATIC PRESSURE
TR	TOP REGISTER
TR GR	TRANSFER GRILLE
TSP	TOTAL STATIC PRESSURE
TX	TOILET EXHAUST
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB TEMPERATURE
WMS	WIRE MESH SCREEN

MECHANICAL NOTES

A. GENERAL

1. HVAC CONTRACTOR SHALL VISIT THE SITE TO UNDERSTAND THE EXISTING FIELD CONDITIONS AND DETERMINE THE SCOPE OF WORK PRIOR TO SUBMITTING THE BID. NO ALLOWANCE WILL BE MADE AFTER CONTRACT IS AWARDED.
2. NOT USED
3. MATERIALS, DOCUMENTATION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS, LOCAL CODES AND AS SPECIFIED. CONTRACTOR SHALL OBTAIN THE LATEST VERSION OF THE ALTERATION SPECIFICATIONS FROM THE BUILDING MANAGEMENT OFFICE.
4. NOT USED
5. FIREPROOFING AND INSULATION DISTURBED BY NEW CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION. ORIGINAL TO BE CONFIRMED.
6. SUPPORT ALL DUCTWORK AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING.
7. SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS WITH MINERAL WOOL OR OTHER NON-COMBUSTIBLE MATERIAL.
8. EXACT LOCATIONS AND COLOR OF ALL WALL MOUNTED THERMOSTATS, ALARM PANELS, ETC., SHALL BE SUBJECT TO OWNER'S APPROVAL.
9. BORDER TYPES, COLOR, FINISHES, AND METHOD OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH THE ARCHITECTURAL CEILING DETAILS AND SPECIFICATIONS.

B. EQUIPMENT

1. INVESTIGATE PATH THROUGH WHICH EQUIPMENT WILL BE MOVED. EQUIPMENT SHALL BE BROKEN DOWN IN SECTIONS AS NEEDED FOR MOVING THROUGH BUILDING SPACES. ASCERTAIN FROM BUILDING MANAGEMENT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED.
2. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN FULL COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. INSTALL EQUIPMENT AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE (INCLUDING FILTER CHANGES) AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE REQUIRED TO ACCOMPLISH THIS.
4. CHANGES IN ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND PLUMBING REQUIREMENTS FOR SUBSTITUTED EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE BIDDER WISHING TO MAKE THE SUBSTITUTION. THIS SHALL INCLUDE THE COST OF ANY REDESIGN BY THE AFFECTED DESIGNERS AND REFILING IF REQUIRED. ANY ADDITIONAL COST INCURRED BY THE AFFECTED SUBCONTRACTORS SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR AND NOT THE OWNER.
5. REFER TO SCHEDULES FOR SELECTIONS OF AC UNITS, AIR OUTLETS, ETC..
6. NOT USED
7. CONDENSATE PUMP FOR AC SHALL BE LITTLE GIANT MODEL NO. VCL 24S. 175 GPH AT 15 FEET HEAD, 120 VOLTS/1 PHASE/ 60 HERTZ, WITH HIGH LEVEL ALARM SWITCH INSIDE RECEIVER. PLUG WITH TWISTLOCK BY ELECTRICAL.
8. PROVIDE LOCKING COVERS FOR ALL HIGH LIMIT AND LOW LIMIT THERMOSTATS..
9. ALL HVAC EQUIPMENT AND CONTROL DEVICES ABOVE INACCESSIBLE CEILING SHALL BE PROVIDED WITH ACCESS DOORS AT CEILING FOR SERVICE AND MAINTENANCE.
10. AC THERMOSTAT SHALL BE ELECTRONIC 7 DAY PROGRAMMABLE COOLING & HEATING.
11. NOT USED
12. CHECK AND SET FIRE DAMPERS OPEN AND REPLACE ANY DEFECTIVE FUSIBLE LINKS IN FIRE DAMPERS.
13. MECHANICAL CONTRACTOR SHALL PROVIDE CONTROLS DESIGN AND CONTROL DEVICES AS REQUIRED PER SPECIFICATIONS. GENERAL CONTRACTOR SHALL COORDINATE BETWEEN SUBCONTRACTORS THE RESPONSIBILITY FOR LOW VOLTAGE WIRING.

C. DUCTWORK

1. ALL NEW DUCTWORK DOWNSTREAM OF UPSTREAM & DOWNSTREAM OF AC UNITS AND EXHAUST FANS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE FUNCTIONAL CRITERIA OF SMACNA STANDARDS FOR LOW PRESSURE (2" WG) DUCTWORK.
2. DIMENSIONS SHOWN FOR LINED DUCTWORK SHALL BE CLEAR INSIDE DIMENSIONS.
3. DUCTWORK & PIPING LAYOUT SHOWN ON THIS PLAN IS SCHEMATIC ONLY. ACTUAL RUN SHALL BE FIELD DETERMINED, BASED ON EXISTING BEAM LAYOUT, DUCTWORK LAYOUT, LIGHTING LAYOUT AND SPRINKLER LAYOUT. FULL COORDINATION BETWEEN ALL TRADES (HVAC, ELEC., PLBG., SPKR. AND GENERAL CONTRACTORS) INCLUDING THE PREPARATION OF COORDINATION DRAWINGS IS REQUIRED TO AVOID CONFLICTS DURING CONSTRUCTION. OFFSET NEW DUCTWORK OR PIPING IF REQUIRED TO CLEAR OBSTRUCTIONS.
4. SEALANT SHALL BE APPLIED TO LONGITUDINAL SEAMS IN THE SHOP DURING FABRICATION. FIELD APPLY SEALANT TO TRAVERSE SEAMS AND CONNECTIONS TO BRANCH DUCTWORK AND AIR OUTLETS.
5. FOR EXACT LOCATIONS OF CEILING DIFFUSERS AND REGISTERS, COORDINATE WITH REFLECTED CEILING PLANS PREPARED BY ARCHITECT.
6. ALL DUCT SPLITS AND TAKE-OFFS SHALL BE PROVIDED WITH VOLUME DAMPERS. SPLITTER DAMPERS AND AIR EXTRACTORS ARE NOT ACCEPTABLE. PROVIDE CABLE-OPERATED VOLUME DAMPERS FOR ALL DAMPERS ABOVE INACCESSIBLE CEILING.
7. VOLUME DAMPERS IN BRANCH DUCTS SHALL BE LOCATED AS FAR AS POSSIBLE FROM AIR OUTLET OR INLET IN ORDER TO REDUCE NOISE AND TURBULENCE AT AIR OUTLETS. DAMPERS SHALL INCLUDE RAISED SADDLES FOR LOCKING QUADRANT HANDLE, 3/8 INCH ROD AND SEALED END BEARINGS.
8. RADIUS ELBOWS SHALL BE USED IN ALL DUCT OFFSETS (HORIZONTAL OR VERTICAL). MITERED ELBOWS WITHOUT TURNING VANES ARE NOT ACCEPTABLE.
9. ALL ACTIVE OPEN END DUCTWORK SHALL BE PROVIDED WITH WIRE MESH SCREEN.
10. SEE SPECIFICATIONS FOR DUCT CONSTRUCTION STANDARDS.

D. PIPING

1. WHERE PIPING CONNECTIONS FOR EQUIPMENT SUCH AS PUMPS, AC UNITS, COILS, ETC. DIFFER FROM THE LINE SIZE PIPING, IT SHALL BE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCER/EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND EQUIPMENT.
2. PROVIDE DIELECTRIC FITTINGS BETWEEN TWO DISSIMILAR METALS.
3. GRAVITY DRAIN PIPING SHALL BE PITCHED DOWN 1/4 INCH PER 10 FEET IN THE DIRECTION OF FLOW.

E. ENERGY CODE NOTES

1. LOAD CALCULATIONS ARE AS PER AHSRAE/ACCA STANDARD 183
2. PROVIDE 7-DAY PROGRAMMABLE TEMPERATURE CONTROL DEVICE WITH +/-5°F DEADBAND.
3. EACH ZONE IS PROVIDED WITH AT LEAST ONE THERMOSTAT CONTROLLER
4. OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED TO BUILDING OWNER
5. DUCT INSULATION SHALL BE A MINIMUM OF R-6 EXCEPT DUCTS EXPOSED TO OUTSIDE AIR SHALL BE R8. ALL DUCT INSULATION SHALL BE VAPOR RETARDANT.
6. PROVIDE 1.5" INSULATION FOR REFRIGERANT PIPING AND STEAM PIPING AS PER ENERGY CODE REQUIREMENTS.
7. PROVIDE PIPE INSULATION AS FOLLOWS: 1.5" FOR PIPE SIZE < 1.5" AND 2" FOR PIPES >= 1.5". AS PER ENERGY CODE REQUIREMENTS
8. LOW PRESSURE DUCT SYSTEMS SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASTETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
9. MINIMUM SERVICE WATER HEATER EFFICIENCY LESS THAN OR EQUAL TO 12 kW, RESISTANCE, 0.97- 0.00 132V, EF. SERVICE WATER HEATER EFFICIENCY IS 80% .
10. MOTORIZED DAMPERS SHALL BE CLASS I MOTORIZED DAMPERS. THE DAMPERS SHALL HAVE AN AIR LEAKAGE RATE OF NO GREATER THAN 4 CFM/FT2 OF DAMPER SURFACE AREA AT 1.0 INCH WATER GAUGE.
11. AC UNITS SHALL BE TESTED TO ENSURE PROPER OPERATION, CALIBRATION AND ADJUSTMENT OF CONTROLS.
12. MINIMUM SERVICE WATER HEATER EFFICIENCY LESS THAN OR EQUAL TO 12 kW, RESISTANCE, 0.97- 0.00 132V, EF. HOT WATER HEATER INDICATED ON PLANS IS 80% EF.
13. SERVICE WATER PIPE INSULATION SHALL BE 1" FOR PIPE SIZE < 1.5" AND 1.5" FOR PIPES >= 1.5".
14. LIGHTING CONTROLS SHALL BE PROVIDED VIA OCCUPANCY SENSOR TO OPERATE AUTOMATICALLY WITHIN REQUIRED DURATION. LIGHT REDUCTION NOT REQUIRED. SEE DRAWING E-101.
15. HVAC FAN SYSTEM AT DESIGN CONDITIONS DO NOT EXCEED ALLOWABLE FAN SYSTEM MOTOR NAMEPLATE HP OR FAN SYSTEM BHP.
16. FANS HAVE EFFICIENCY GRADE (FEG) >= 67. THE TOTAL EFFICIENCY OF THE FAN AT THE DESIGN POINT OF OPERATION <=15% OF THE MAXIMUM TOTAL EFFICIENCY OF THE FAN.
17. ZONE ISOLATION DEVICES AND CONTROLS INSTALLED WHERE APPLICABLE.
18. FAULT DETECTION AND DIAGNOSTICS INSTALLED WITH AIR-COOLED UNITARY DX UNITS HAVING ECONOMIZERS.
19. AIR ECONOMIZERS PROVIDED WHERE REQUIRED, MEET THE REQUIREMENTS FOR DESIGN CAPACITY, CONTROL SIGNAL, VENTILATION CONTROLS, HIGH-LIMITS SHUT-OFF, INTEGRATED ECONOMIZER CONTROL, AND PROVIDE A MEANS TO RELIEVE EXCESS OUTSIDE AIR DURING OPERATION.
20. HEATING AND COOLING TO EACH ZONE IS CONTROLLED BY A THERMOSTAT CONTROL. MINIMUM ONE HUMIDITY CONTROL DEVICE PER INSTALLED HUMIDIFICATION/DEHUMIDIFICATION SYSTEM.
21. SYSTEM INCLUDE OPTIMUM START CONTROL.
22. KITCHEN EXHAUST SYSTEMS COMPLY WITH REPLACEMENT AIR AND CONDITIONED SUPPLY AIR LIMITATIONS, AND SATISFY HOOD RATING REQUIREMENTS AND MAXIMUM EXHAUST RATE CRITERIA.
23. DUCTS AND PLENUMS SEALED BASED ON STAT PRESSURE AND LOCATION.
24. HVAC SYSTEMS AND EQUIPMENT CAPACITY DOES NOT EXCEED CALCULATED LOADS.
25. TEMPERATURE CONTROLS HAVE SETPOINT OVERLAP RESTRICTIONS.

MECHANICAL DRAWINGS LIST

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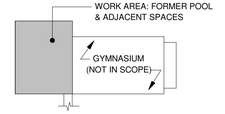

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Drawn: SZ | Checked: RE | Approved: RE

Job Number: 786

File:

Date: 4.26.24

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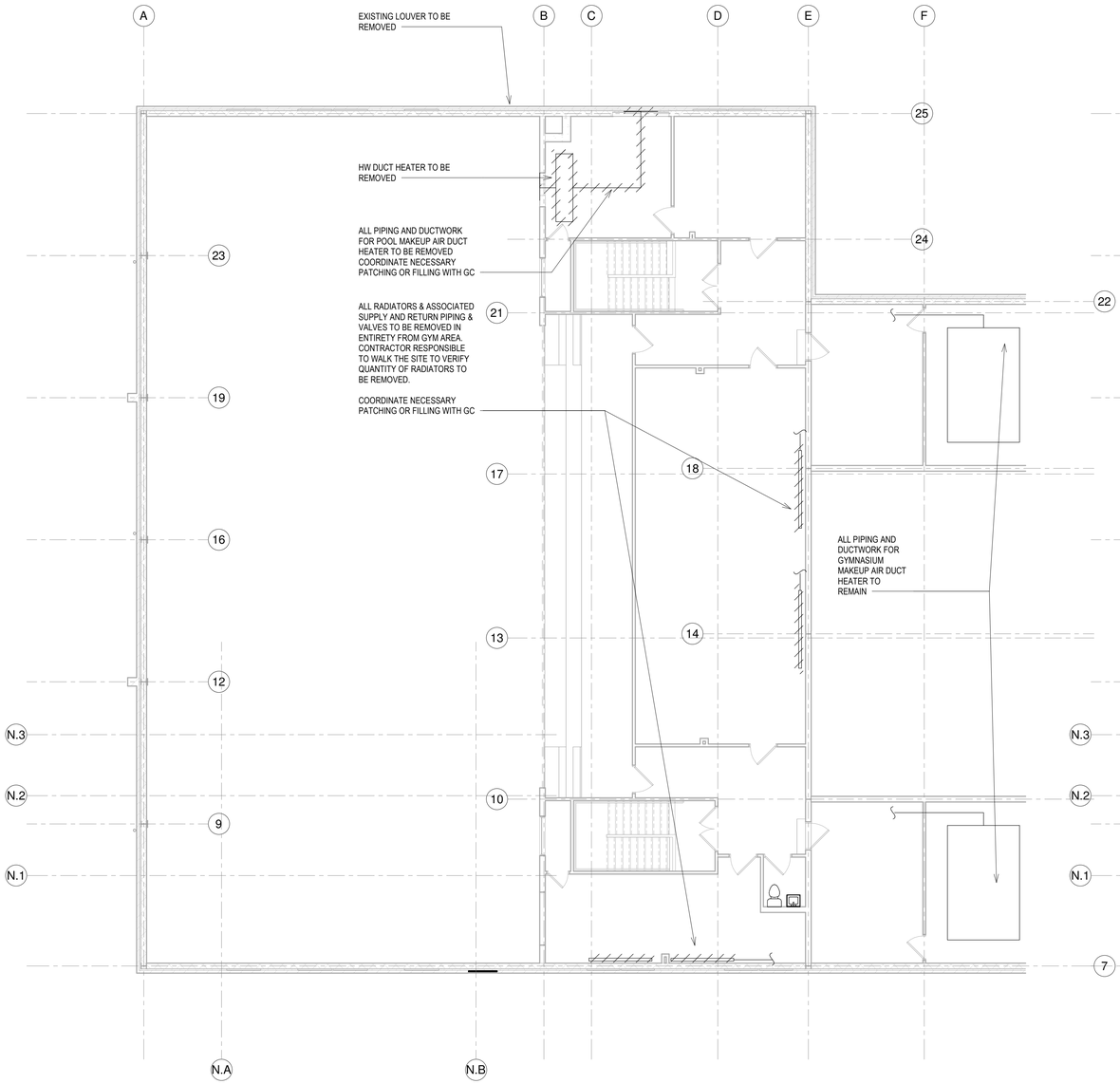
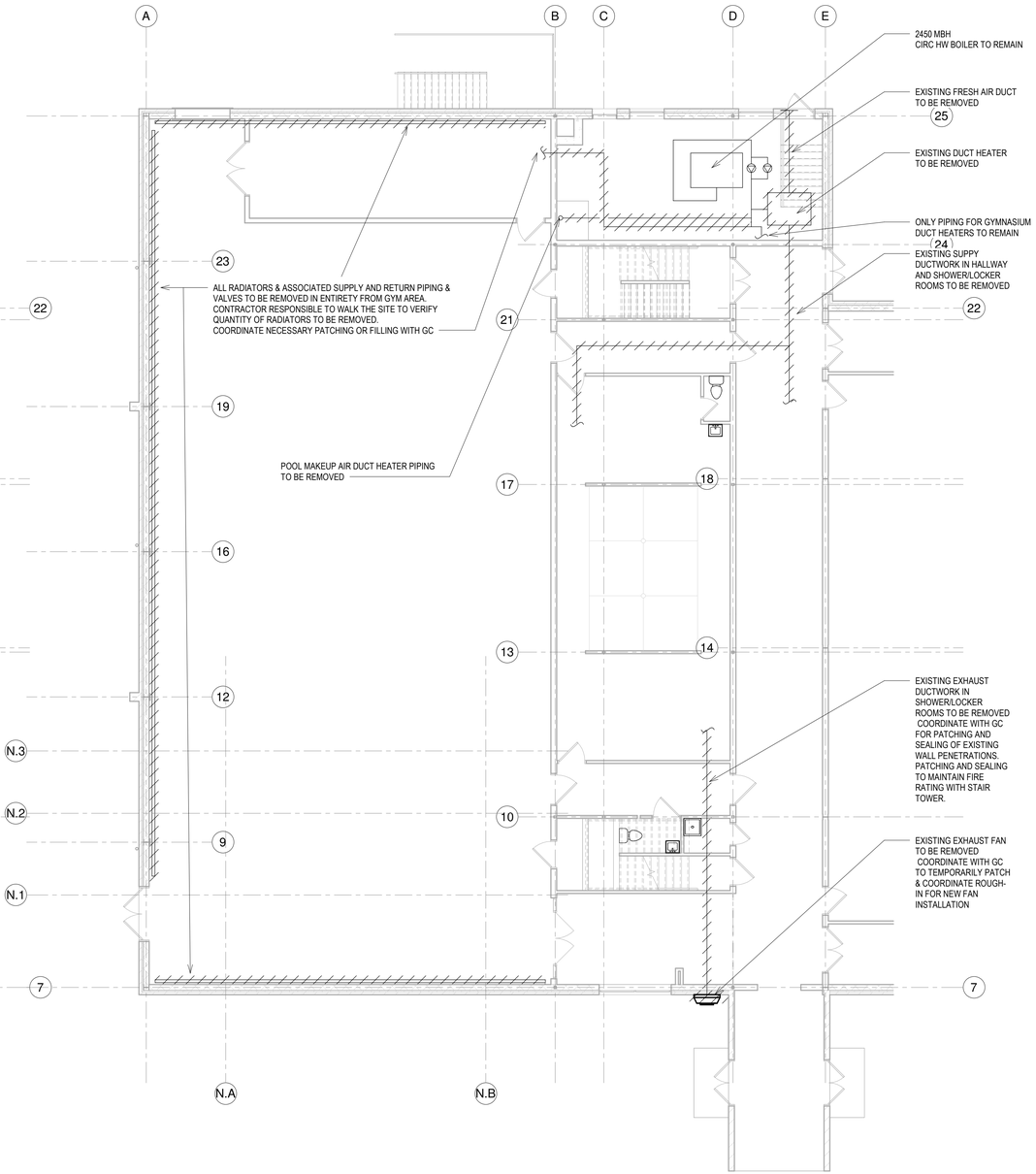
Drawing Title: MECHANICAL GENERAL NOTES

Drawing Number: M0.1



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



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

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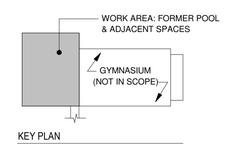

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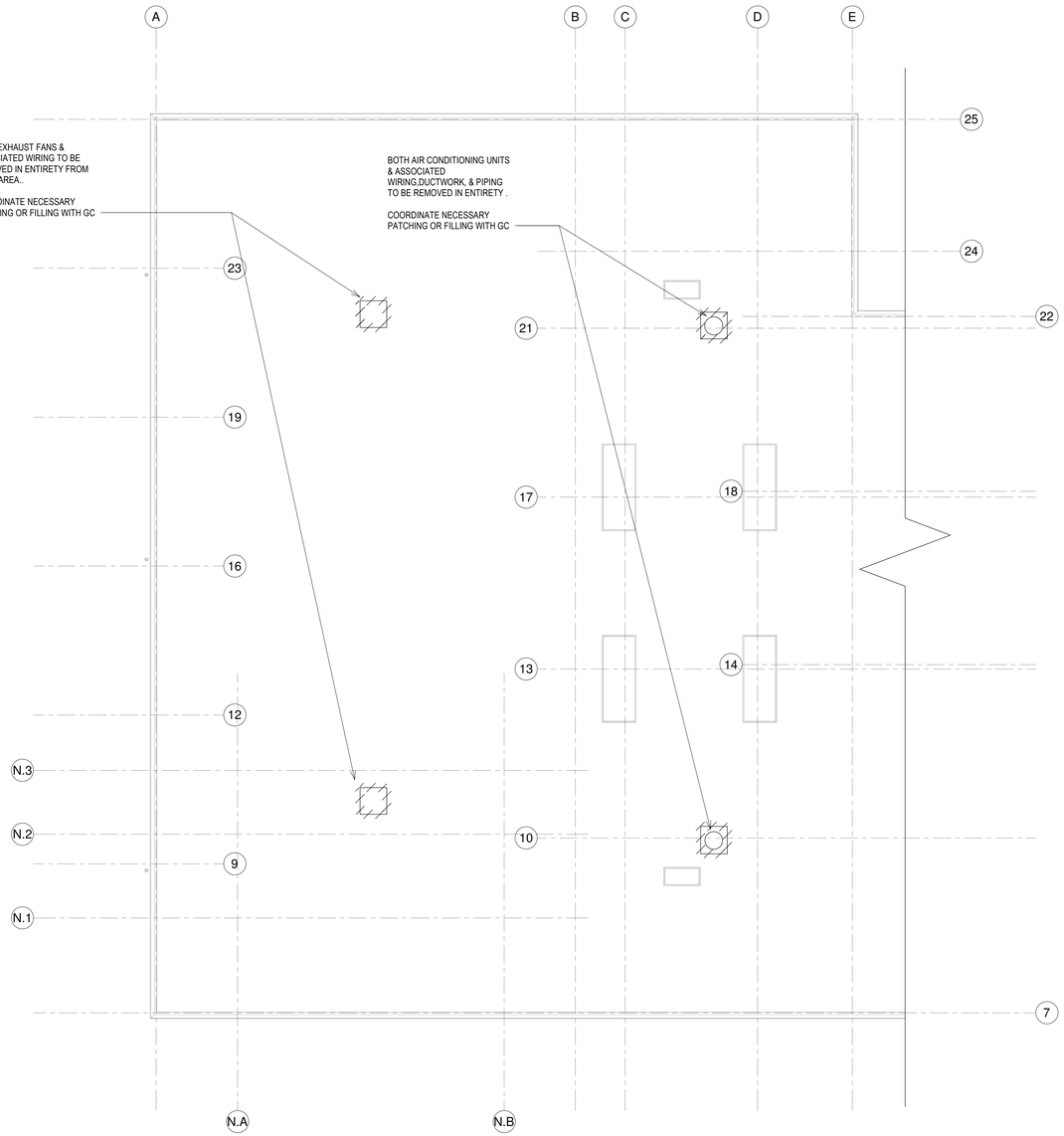
Drawing Title:
MECHANICAL DEMOLITION PLAN

Drawing Number:
MD1.0



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

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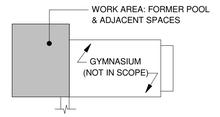

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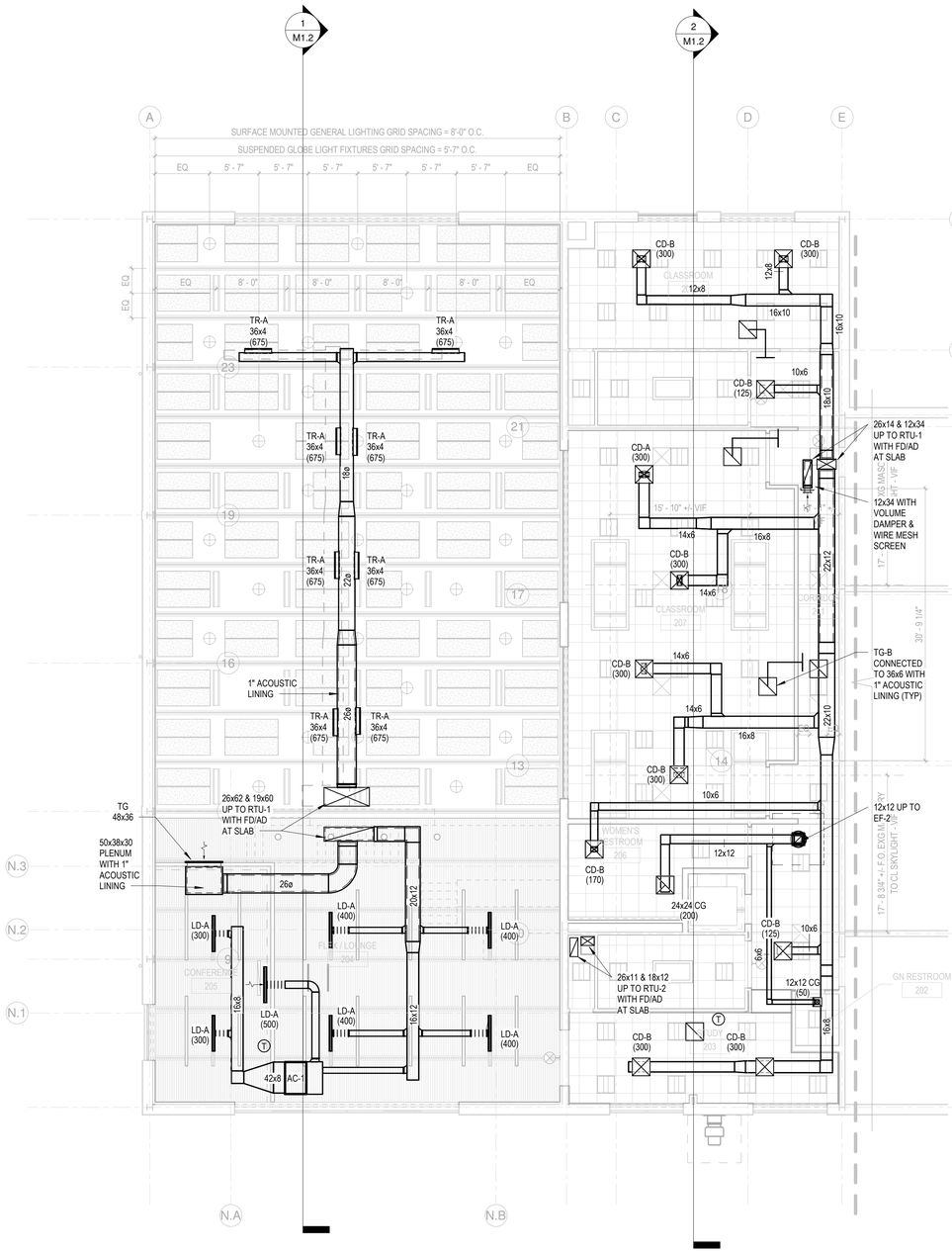
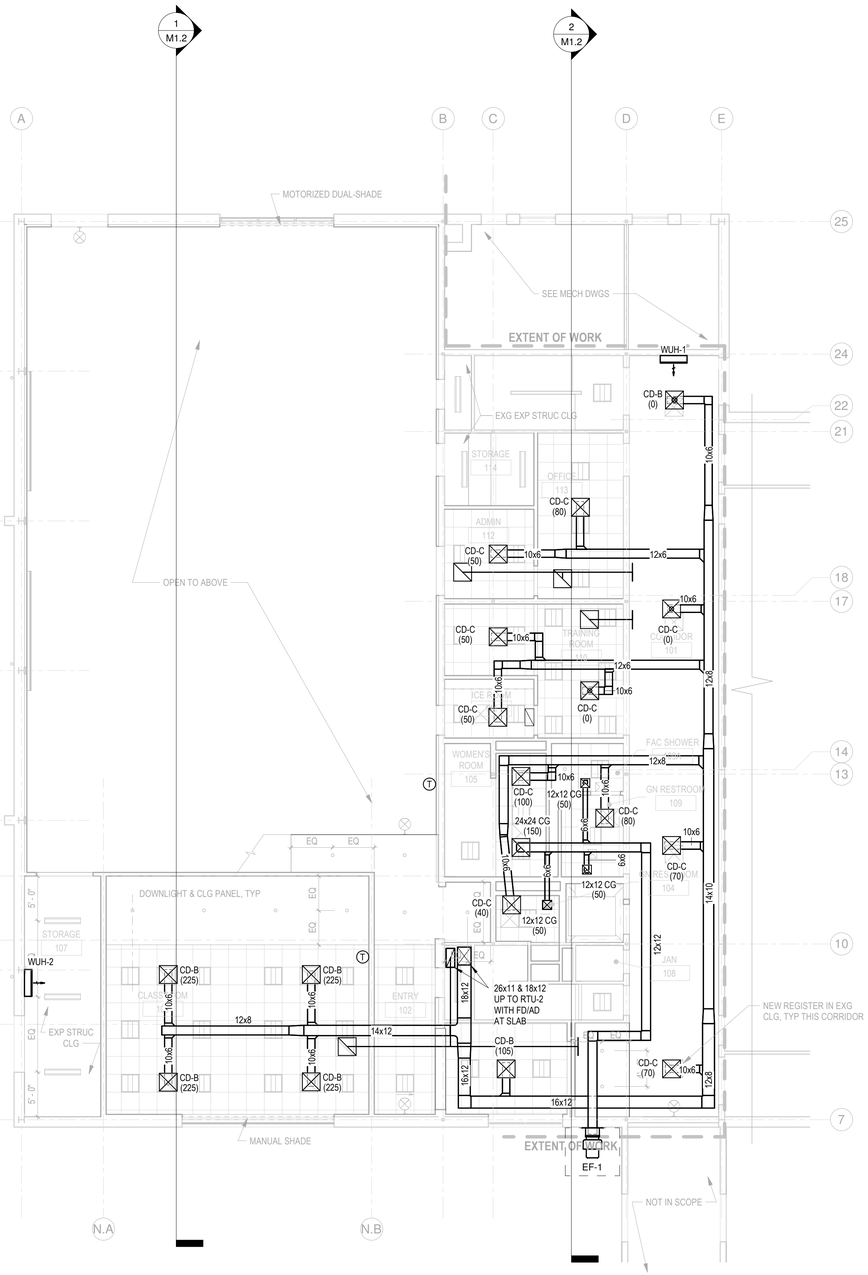
Drawing Title:
MECHANICAL DEMOLITION
ROOF PLAN

Drawing Number:
MD1.1



2 MECHANICAL SECOND FLOOR RCP
1/8" = 1'-0"



1 MECHANICAL FIRST FLOOR RCP
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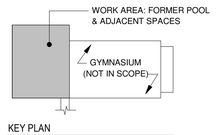

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Drawing Number:
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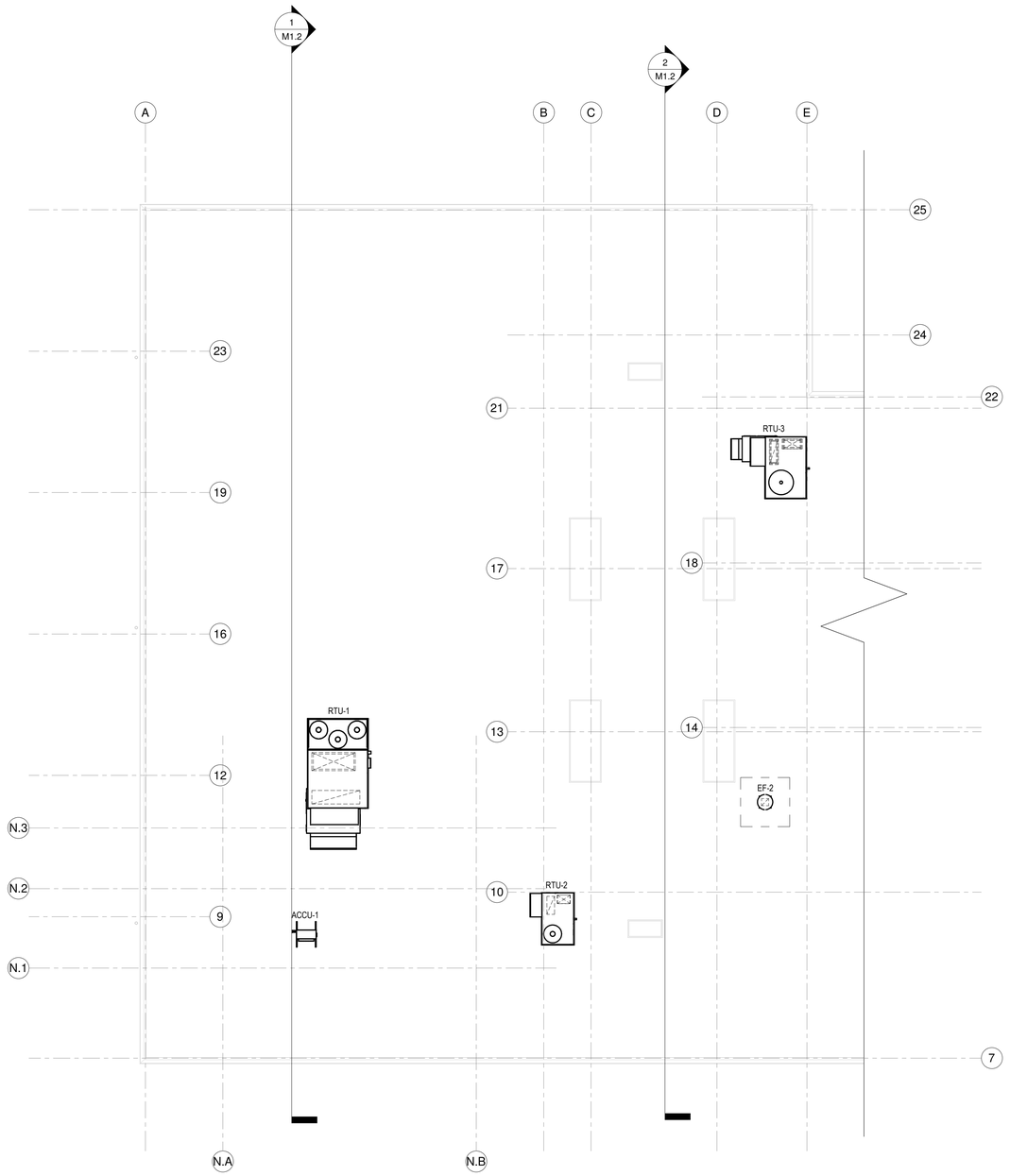

NOTES:
1. MOUNT RTU'S, CONDENSERS AND EXHAUST FAN ON MANUFACTURER PROVIDED ROOF CURBS

2. RUN CONDENSATE DRAIN PIPING FROM EACH RTU TO NEAREST ROOF DRAIN

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

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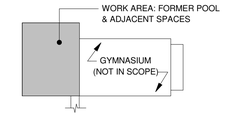

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Drawing Number:
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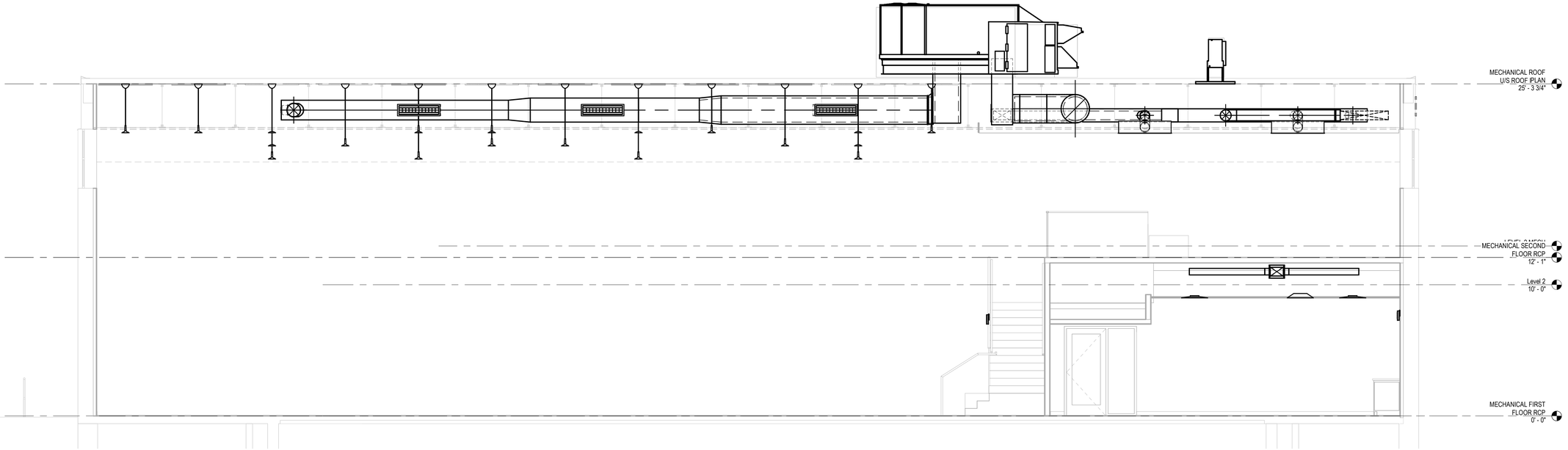
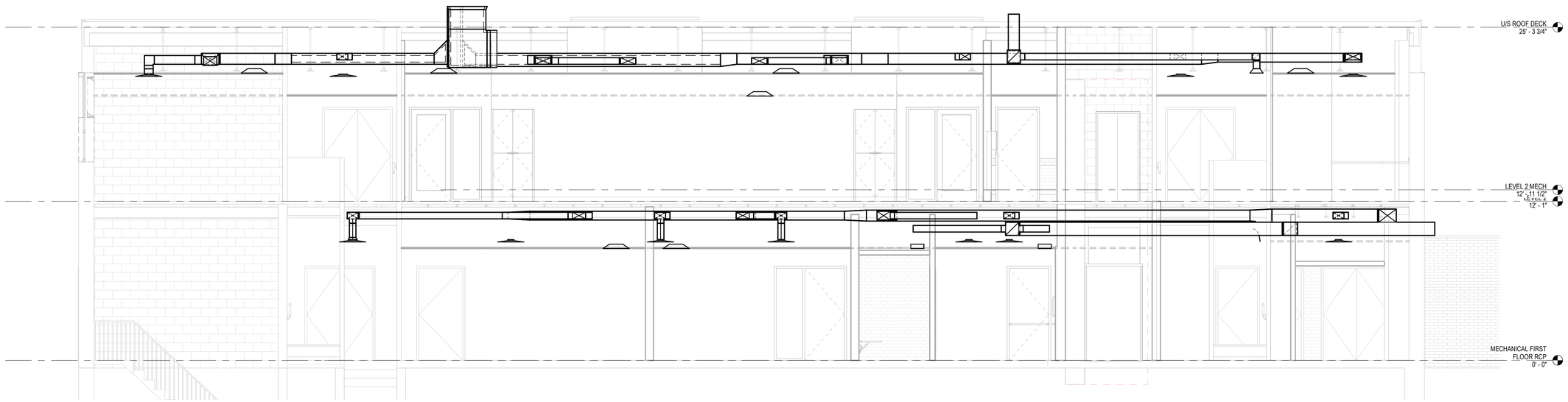


1 Section 1
1/4" = 1'-0"



2 Section 2
1/4" = 1'-0"

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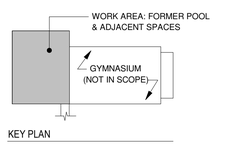

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Drawing Set:
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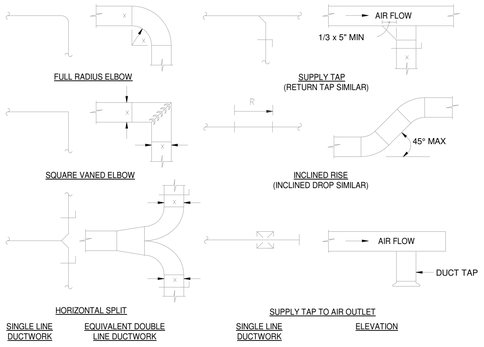
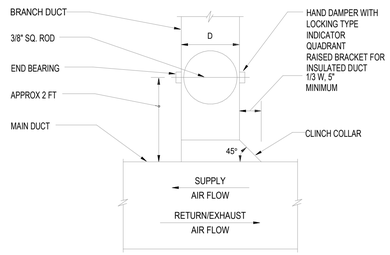
Drawing Title:
MECHANICAL SECTIONS

Drawing Number:
M1.2

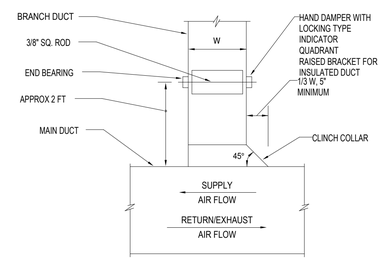


TYPICAL SUPPLY OR EXHAUST DUCT CONNECTION



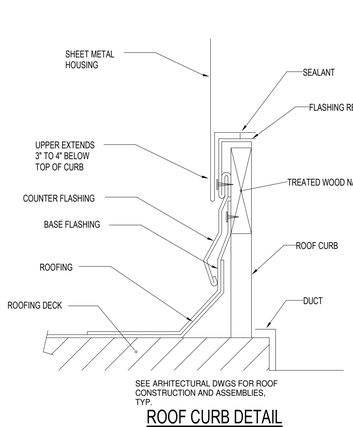
NOTES:
FURNISH THIS TYPE CONNECTION WHEN SINGLE LINE DUCTWORK IS INDICATED AS THIS FOR BRANCHES WITH LESS THAN 25% OF THE TOTAL AIR FLOW

ROUND DUCT WITH VOLUME DAMPER



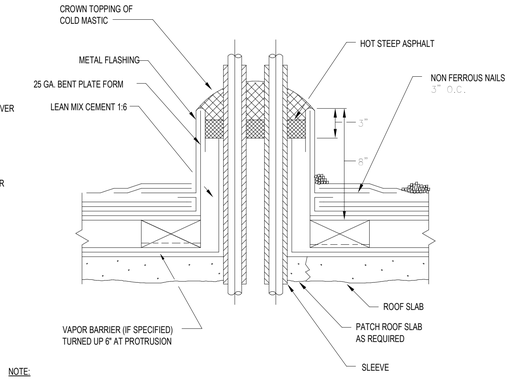
NOTES:
FURNISH THIS TYPE CONNECTION WHEN SINGLE LINE DUCTWORK IS INDICATED AS THIS FOR BRANCHES WITH LESS THAN 25% OF THE TOTAL AIR FLOW

RECTANGULAR DUCT WITH VOLUME DAMPER



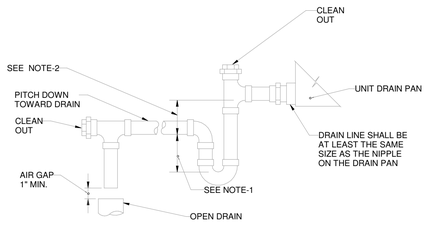
SEE ARHITECTURAL DWGS FOR ROOF CONSTRUCTION AND ASSEMBLIES, TYP.

ROOF CURB DETAIL



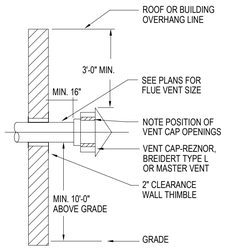
NOTE:
SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR THE ROOF CONSTRUCTION.

PIPING THROUGH ROOF



NOTES:
1. ON POSITIVE PRESSURE SYSTEM(E.G. DUCT COILS, BLOW-THRU UNITS, ETC.) DEPTH OF SEAL SHALL BE A MINIMUM OF 1.5 TIMES SYSTEM PRESSURE IN THE DRAIN PAN.
2. ON NEGATIVE PRESSURE SYSTEMS (E.G. DRW-THRU UNITS) DEPTH OF SEAL SHALL BE MINIMUM OF 1.5 TIMES SYSTEM PRESSURE IN THE DRAIN PAN.

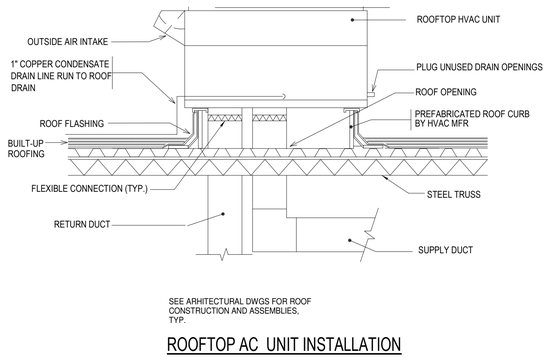
TYPICAL CONDENSATE DRAIN TRAP



NOTE:
PITCH FLUE VENT PIPE DOWN TOWARD OUTLET AT 1/4" PER FOOT FOR CONDENSATE DRAINAGE

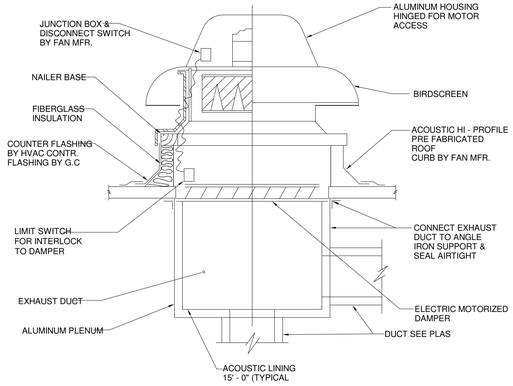
HORIZONTAL ARRANGEMENT

FLUE VENT DETAIL

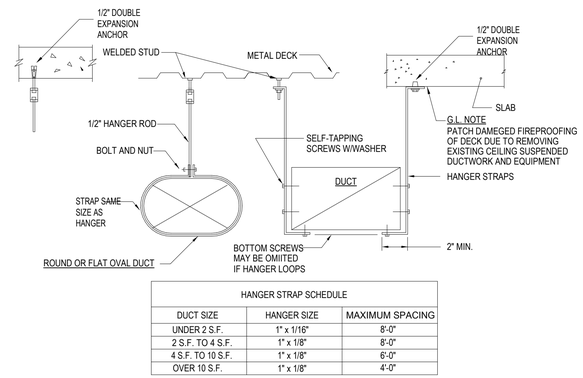


SEE ARHITECTURAL DWGS FOR ROOF CONSTRUCTION AND ASSEMBLIES, TYP.

ROOFTOP AC UNIT INSTALLATION



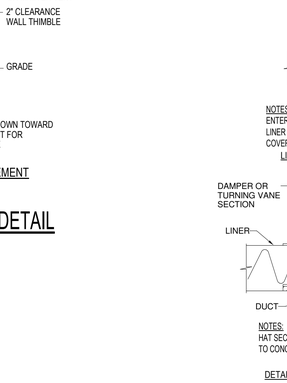
ROOF EXHAUST FAN INSTALLATION

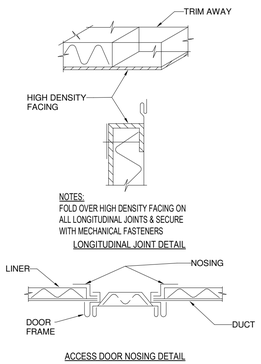


HANGER STRAP SCHEDULE		
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING
UNDER 2 S.F.	1" x 1/16"	8'-0"
2 S.F. TO 4 S.F.	1" x 1/8"	8'-0"
4 S.F. TO 10 S.F.	1" x 1/8"	6'-0"
OVER 10 S.F.	1" x 1/8"	4'-0"

NOTE:
1. ALL ANCHORS AND INSERTS SHALL HAVE JURISDICTION OF LOCAL BOARD OF STANDARDS AND APPEALS APPROVAL.
2. SEE ARCHITECTURAL DRAWING FOR ROOF DETAILS. COORDINATE WITH ARCHITECTURAL FOR APPROVES ROOF TYPES.

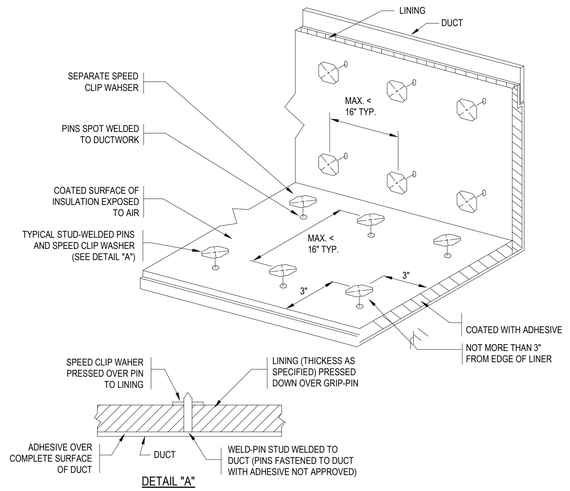
DUCT HANGING DETAIL



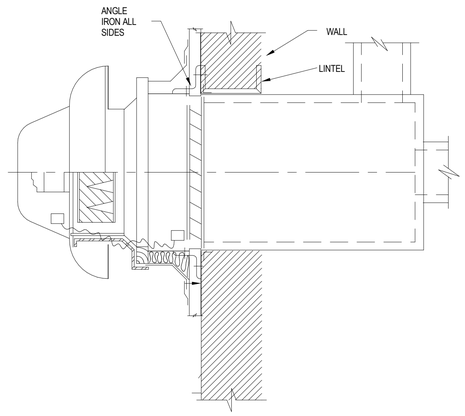


NOTES:
1. NOSING ATTACHED TO DUCT BY RIVETS SCREW OR WELDS
2. NOSING: 24 GA. UP TO 48", OVER 48", SAME GA. AS DUCT

SOUND LINING NOSING DETAIL



SOUND LINING INSTALLATION DETAIL



WALL EXHAUST FAN INSTALLATION

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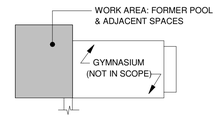

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Drawing Title: MECHANICAL DETAILS

Drawing Number: M3.0

PACKAGED ROOFTOP GAS FIRED AC UNITS

EQUIPMENT NO.	LOCATION	AREA SERVED	NOMINAL TON	SUPPLY FAN						COOLING PERFORMANCE				HEATING PERFORMANCE		CONDENSER SECTION				COMPRESSOR			HEATING SECTION				ELECTRICAL DATA			FILTER		NOMINAL OPERATION WEIGHT (LBS.)	SEER/ EER	MANUFACTURER	MODEL	NOTES
				OA MIN (CFM)	(CFM)	EXT. S.P. (IN W.G)	BHP/HP	RPM	TYPE	CAPACITY (MBH) TOTAL	CAPACITY (MBH) SENSIBLE	EAT. (°F) DB/WB	LAT. (°F) DB/WB	TOTAL CAP MBH	EAT °F DB	EDB °F	CFM	FLA (EA)	FAN QUANTITY	TYPE	QUANTITY	RLA	TYPE	EAT/LAT (°F)	KW	INPUT (MBH)	V/PH/HZ	MCA (A)	MFS (A)	TYPE	N0. SIZE					
RTU-1	ROOF	MULTI/MEZZ	20.0	1775	7250	1.5	4.60	1839	VANE AXIAL	61.34	45.58	78.4/55.8	52.8/44.1	73.0	63.7	95	---	1.5	4	--	2	34/27.6	GAS	56.6/79.4	---	176/220	208-3-60	88.9	100	MERV 13	20X25X2	2869	–/11.4	CARRIER	48GCDM24A2M5-3WPC0	
RTU-2	ROOF	1ST FLOOR	4.0	200	1850	1.5	1.83	2575	VANE AXIAL	61.34	45.58	76.4/54.9	54.4/44.4	73.0	63.7	95	---	2.6	1	--	1	12.9	GAS	63.6/90.8	---	50/67	230-3-60	29	40	MERV 13	16X25X2	651	17.4/--	CARRIER	48GCDJ05A3M5-3WPC0	
RTU-3	ROOF	2ND FLOOR	7.5	500	2950	1.5	2.13	1799	VANE AXIAL	40.69	27.79	77.4/55.0	51.6/42.8	73.0	59.5	95	---	1.5	2	--	2	15.9/9	GAS	57.7/90.0	---	90/125	230-3-60	44	50	MERV 13	20X20X2	893	–/12.0	CARRIER	48GCDM08A5M5-3WPC0	

NOTES:
1) MODULATING HOT GAS REHEAT
2) CONSTANT VOLUME
3) CO2 DAMPER CONTROL
4) NON-FUSED DISCONNECT SWITCH
5) 120V FIELD-POWERED CONVENIENCE OUTLET
6) ECONOMIZER AND ERV
7) DIRTY FILTER SWITCH
8) ADVANCED MICROPROCESSOR CONTROLS W/ ALARM
9) COMPRESSOR SOUND JACKETS
10) 16" TALL ROOF CURB

EVAPORATOR AC UNIT SECTION

UNIT No.	SERVICE	TYPE	TONS	SUPPLY FAN DATA			(CORRECTED) COOLING PERFORMANCE				HEATING PERFORMANCE		REFRIGERATION PIPE		ELECTRICAL DATA			MFR	MODEL	SOUND PRESSURE DBA	WEIGHT (LBS)	UNIT DIMENSIONS (W"XL"XH")	COMMENTS
				CFM	EXT.SP. (IN. WG)	TYPE	CAPACITY (MBH) TOTAL	CAPACITY (MBH) SENSIBLE	EAT °F DB	EAT °F WB	TOTAL CAP MBH	EAT °F DB	LIQUID (INCH)	SUCTION (INCH)	MCA (AMP)	MFS (AMP)	V/PH/HZ						
AC-1	CONFERENCE	HORIZONTAL DUCTED	2	461-741	0.14-0.6	-	24	16.3	80	67	25	-	3/8	5/8	-	-	208/240-1-60	MITSUBISHI	PEAD-A24AA8	36	67	43-5/16X28-7/8X10	1

NOTES:

1. FOR ALL UNITS PROVIDE DISCONNECT SWITCH, CONDENSATE PUMPS,
2. PROVIDE UNITS WITH WALL MTD TEMPERATURE SENSOR

SPLIT AIR COOLED CONDENSING UNIT SECTION

UNIT No.	SERVICE	NOM. TONS	NOM. COOLING CAP. (BTU/H)	NOM. HEATING CAP. (BTU/H)	COOLING OUTDOOR TEMP °F DB	HEATING OUTDOOR TEMP °F DB	REFRIGERATION PIPE LIQUID / SUCTION (INCH)	COMPRESSOR TYPE	COMPRESSOR RLA	CONDENSER FAN (CFM)	ELECTRICAL DATA MCA	ELECTRICAL DATA MFS	ELECTRICAL DATA V/PH/HZ	SEER	MFR	MODEL	SOUND PRESSURE DBA	WEIGHT (LBS)	UNIT DIMENSIONS (W"XD"XH")	COMMENTS
ACCU-1	AC-1	2	24,000	25,000	95	47	3/8" / 5/8"	SCROLL	9	800	17	27	208/240-1-60	15.0	MITSUBISHI	SUZ-KA24NAHZ	52-53	190	(37.5"X14"X37")	

NOTES:
1. PROVIDE ROOF MTD BRACKET
2. SEE ASSOCIATED INDOOR UNIT FOR CONTROL OPTION INTERLOCKS.
3. INTERNAL UNIT CONTROLS.
4. AUTO CHARGE FUNCTION.
5. ADVANCED CONTINUOUS HEATING DURING DEFROST CYCLE.
6. LOW AMBIENT CONTROLS DOWN TO -4°F.
7. WIND BAFFLE

FAN SCHEDULE

UNIT No.	LOCATION	SERVICE	PERFORMANCE DATA CFM	PERFORMANCE DATA ESP IN. W.G	PERFORMANCE DATA RPM	PERFORMANCE DATA SONES	FAN MOTOR DATA HP	FAN MOTOR DATA STARTER TYPE	ELECTRICAL DATA VOLTS	ELECTRICAL DATA PH	ELECTRICAL DATA HZ	WEIGHT (LBS)	MODEL No.	MANUFACTURER	REMARKS
EF-1	EXTERIOR WALL	1ST FLOOR TOILETS AND SHOWER	300	1	1681	8.5	1/4	---	208	1	60	61	CUBE-100HP	GREENHECK	1 3 7
EF-2	ROOFTOP	2ND FLOOR TOILETS	250	0.5	1573	7.6	1/6	---	208	1	60	28	G-080-VG	GREENHECK	1 3 7

NOTES:
1 PROVIDE WITH BACKDRAFT DAMPER
2 INTERLOCK WITH LIGHT SWITCH
3 ISOLATION KIT
4 SOLID STATE CONTROLLER (UNIT MOUNTED)
5 WALL MTD COOLING ONLY THERMOSTAT
6 WALL SWITCH WITH PILOT LIGHT
7 TIME CLOCK
8 INTERLOCK WITH ASSOCIATED UNITS
9 20"ROOF CURB
10 ROOF CURB EXTENSION WITH SOUND ATTENUATOR

ELECTRIC HEATER SCHEDULE

UNIT NO.	SERVICE	AIR DATA CFM	AIR DATA APPRX ATR	ELECTRICAL DATA WATTS	ELECTRICAL DATA AMPS	ELECTRICAL DATA V/I/HZ	DIMENSION	WEIGHT (LBS)	MFG	MODEL
WUH-1	CORRIDOR	320	45	4500	22.0	208/1/60	16x22.75x4.1	50	INDEECO	933U06000V SERIES WAI
WUH-2	STORAGE RM	160	45	4500	22.0	208/1/60	16x22.75x4.1	50	INDEECO	933U05000D SERIES WAI

1. DISCONNECT SWITCH
2. COLOR BY ARCHITECT
3. PROVIDE EACH WITH BUILT IN THERMOSTAT .
4. TWO SPEED MOTOR FOR WUH-1 & 2 AND SUBBASE , SEMI RECESSED , D1 CONFIGURATION

DIFFUSER SCHEDULE(BASED ON TITUS)

UNIT No.	TYPE	INLET OR NECK SIZE	FACE SIZE	CFM RANGE	MAXIMUM NC LEVEL	MAXIMUM S.P. IN H_2O	MANUFACTURER MODEL NO.	ACCESSORIES
CD-A	DIFFUSER	10"	24X24	250-450	30	0.1	TMSA	x
CD-B	DIFFUSER	8"	24X24	100-300	30	0.06	TMSA	x
CD-C	DIFFUSER	6"	24X24	0-100	30	0.03	TMSA	x
TR-A	REGISTER	x	36X4	x	30	0.15	S-DL	x
TG-A	GRILLE	x	48X36	x	30	0.05	350RL	x
TG-B	GRILLE	x	24X24	x	30	0.05	23RL	x

LINEAR DIFFUSER SCHEDULE(BASED ON TITUS)

TYPE	ACTIVE LENGTH (FT-IN)	FLEX DUCT SIZE (IN)	SLOT WIDTH AND NUMBER	CAPACITY AIRFLOW (CFM) LPS	MODEL
A	4'-0"	--	3/4-2	400	ML-38
B	2'-0"	--	3/4-2	200	ML-28

REMARKS: TITUS

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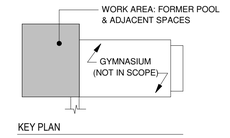

KEY PLAN

No.	Date	Revisions
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Date: 4.26.24

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Drawing Title: MECHANICAL SCHEDULES

Drawing Number: M4.0

GENERAL ELECTRICAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, NJ CODE, NFPA, UL, THE LATEST ENERGY CONSERVATION CONSTRUCTION CODE, AND ALL OTHER GOVERNING AGENCIES HAVING JURISDICTION. ALL WORK SHALL BE PERFORMED BY A NJ LICENSED ELECTRICAL CONTRACTOR AND FILED WILL ALL AUTHORITIES HAVING JURISDICTION.

2. THE ELECTRICAL CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONSAND WITH DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. CONTRACTOR SHALL PERFORM THIS PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.

3. SUBSEQUENT TO AWARD OF THE CONTRACT, THE ELECTRICAL CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE OF WORK TO THE ARCHITECT. THE SCHEDULE SHALL BE MODIFIED AS NECESSARY AND RE-ISSUED WHEN ANY CHANGES THERETO ARE REQUIRED.

4. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATIONS AND ELEVATIONS OF ALL RECEPTACLES, TELEPHONE/DATA OUTLETS, LIGHTING FIXTURES, ETC., SHALL BE DETERMINED BY THE ARCHITECT AND OWNER.

5. ANY DAMAGE TO WALLS, FLOORS, CEILINGS OR ANY PART OF THE BUILDING OR EQUIPMENT CAUSED BY THE WORK OF THE CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.

6. THE ELECTRICAL CONTRACTOR SHALL MAKE APPLICATION TO THE UTILITY COMPANY FOR AN UPGRADE TO THE EXISTING BUILDING ELECTRICAL SERVICE AND SHALL INSTALL THE NEW ELECTRICAL SERVICE IN ACCORDANCE WITH THE UTILITY COMPANY SERVICE LAYOUT AND REQUIREMENTS. SERVICE EQUIPMENT INTERRUPTING RATINGS SHALL BE COORDINATED WITH THE SHORT CIRCUIT AVAILABILITY AS PROVIDED BY THE UTILITY COMPANY.

7. CIRCUIT NUMBERS INDICATED ON PLANS ARE FOR GROUPING PURPOSES ONLY. WHERE DRAWINGS CALL FOR SEPARATE NEUTRAL WIRES OR DEDICATED CIRCUITS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUITS WITH PROPER PHASE SEQUENCING FOR EVERY SHARED NEUTRAL WIRE.

8. BRANCH CIRCUITS SHALL BE ARRANGED TO BALANCE LOADS TO THE EXTENT POSSIBLE. LOADS IMBALANCES BETWEEN PHASES SHALL NOT EXCEED 10%.

9. ALL PANELS SHALL HAVE COMPLETE DIRECTORIES INDICATING LOADS SERVED AS WELL AS SPARES AND SPACES.

10. ELECTRIC PANEL COVERS SHALL NOT BE LEFT OFF AT ANY TIME UNLESS CONTRACTOR'S PERSONNEL ARE WORKING ON SAME. COVERS SHALL BE REPLACED AT THE END OF THE WORK DAY.

11. PROVIDE GROUND WIRE IN ALL FEEDERS TO MOTORIZED EQUIPMENT.

12. PROVIDE ARC FAULT CIRCUIT BREAKERS OR RECEPTACLES WHERE INDICATED OR WHERE REQUIRED BY CODE.

13. PROVIDE GROUND FAULT CIRCUIT BREAKERS OR RECEPTACLES WHERE INDICATED OR WHERE REQUIRED BY CODE.

14. ANY ELECTRICAL EQUIPMENT INDICATED OUTDOORS SHALL BE WEATHERPROOF IN NEMA 3R ENCLOSURES.

15. ALL DEVICE COLORS AND FINISHES, AND MOUNTING HEIGHTS OF ELECTRICAL DEVICES SHALL BE IN ACCORDANCE TO ARCHITECTURAL DRAWINGS.

16. 1/2" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED.

17. ARMOR CLAD (AC) OR METAL-CLAD CABLE (MC) MAY BE USED AS PERMITTED BY CODE. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED WITH SET SCREW TYPE FITTINGS.

18. FLEXIBLE METALLIC CONDUIT (FMC) (GREENFIELD) SHALL BE USED FOR FINAL CONNECTION TO MOTORS AND TO RECESSED MOUNTED LIGHTING FIXTURES. LENGTH SHALL NOT EXCEED 6 FEET.

19. WHERE MORE THAN ONE SWITCH IS INSTALLED IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A MULTI- GANG BOX UNDER ONE COVER PLATE.

20. ALL MATERIALS SHALL BE NEW AND SHALL CONFORM WITH THE STANDARDS OF THE UNDERWRITERS LABORATORIES, INC. (UL) WHERE SUCH A STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR TYPE OF MATERIAL IN QUESTION, UNLESS OTHERWISE NOTED.

21. THE CONTRACTOR SHALL SUBMIT CATALOG CUTS AND SHOP DRAWINGS OF ALL DEVICES, EQUIPMENT AND MATERIAL PROPOSED TO BE USED TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL. A SHOP DRAWING LOG SHALL BE MAINTAINED BY THE CONTRACTOR AND STATUS OF SUBMISSIONS SHALL BE UPDATED AT LEAST BI-WEEKLY.

22. ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRESTOPPED USING LISTED AND APPROVED FIRESTOP ASSEMBLIES; AND ALL PENETRATIONS THROUGH EXTERIOR WALLS OR FLOORS SHALL BE WATERPROOFED.

23. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION.

24. BEFORE INSTALLING ANY WORK, THE CONTRACTOR, SHALL CONFIRM THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS PILASTER, PARTITIONS, WALLS, ETC., AS SHOWN ON THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS SO INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THIS CONTRACTOR AT HIS OWN EXPENSE SHALL MAKE SUCH CHANGES IN THE WORK AS NECESSARY AND AS DIRECTED BY THE ARCHITECT, TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.

25. DURING THE PROJECT DURATION, THE ARCHITECT AND ENGINEER WILL INSPECT THE WORK PROGRESS. ANY WORK WHICH IS JUDGED UNSATISFACTORY FOR ANY REASON OR NOT IN COMPLIANCE WITH THE CONTRACT, CODE, OR STANDARDS SHALL BE REMOVED AND REPLACED AS DIRECTED AND AT THE EXPENSE OF THE CONTRACTOR.

26. CHOPPING OR CHASING OF WALLS AND MASONRY MUST BE COORDINATED WITH THE ENGINEER AND ARCHITECT PRIOR TO COMMENCING WORK.

27. AFTER COMPLETION OF THE PROJECT, THE ELECTRICAL CONTRACTOR SHALL PERFORM A TEST OF THE EMERGENCY EGRESS LIGHTING SYSTEM. TEST SHALL BE PERFORMED AFTER DARK (AT LEAST 1 HOUR AFTER SUNSET); SIMULATE POWER FAILURE ON ALL LIGHTING CIRCUITS. TAKE LIGHT LEVEL READINGS ALONG PATHS OF EGRESS UTILIZING A FOOT CANDLE METER. RECORD READINGS ON A REDUCED SCALE (1/16" - 1'-0") FLOOR PLAN. READINGS SHALL BE TAKEN AT THE MIDPOINT BETWEEN EMERGENCY FIXTURES AT A HEIGHT OF 18 INCHES ABOVE FLOOR. SUBMIT SEALED AND SIGNED COPY OF THE FLOOR PLAN AND READINGS TO THE ENGINEER.

28. UPON COMPLETION OF THE WORK, A SET OF "AS-BUILT" DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND ACCEPTANCE. FINAL AS-BUILTS SHALL BE SUBMITTED TO THE OWNER PRIOR TO PROJECT CLOSEOUT.

29. THE ENERGIZATION OF THE ELECTRICAL INSTALLATION DOES NOT CONSTITUTE AN ACCEPTANCE OF THE WORK BY THE OWNER. FINAL ACCEPTANCE IS TO BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT THE WORK FULFILLS THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND HAS FURNISHED ALL REQUIRED CERTIFICATES OF APPROVAL FROM THE STATE AUTHORITIES, MUNICIPAL AUTHORITIES AND UNDERWRITERS.

30. ELECTRICAL CONTRACTOR SHALL FILE FOR NECESSARY INSPECTIONS AND SHALL PROVIDE AN ELECTRICAL INSPECTION APPROVAL CERTIFICATE TO THE ARCHITECT UPON COMPLETION OF THE WORK.

31. ALL PANELS SHALL BE FLUSH/RECESSED MOUNTED UNLESS OTHERWISE NOTED.

GENERAL DEMOLITION NOTES:

A. REFER TO ARCHITECTURAL DEMOLITION NOTES FOR ADDITIONAL INFORMATION.

B. IN AREAS DESIGNATED FOR DEMOLITION BY THE ARCHITECTURAL DRAWINGS, IT IS THE INTENT OF THIS CONTRACT THAT THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL, TELECOMMUNICATION, SECURITY AND AUDIO/VISUAL EQUIPMENT INCLUDING: POWER AND LIGHTING PANELBOARDS (IF ANY) AND ASSOCIATED FEEDERS, TRANSFORMERS, PULLBOXES, LIGHT FIXTURES, FLOOR RECEPTACLES, POWER AND TEL./DATA DOGHOUSE OUTLETS, WALL MOUNTED RECEPTACLES, TELEPHONE/DATA OUTLETS, CONTROL DEVICES AND LIGHT SWITCHES, POWER OUTLETS, BOXES, WIRING, RACEWAYS, CONDUITS AND CABLE TRAYS, AND ALL OTHER EQUIPMENT (UNLESS OTHERWISE NOTED) WHICH IS MOUNTED ON WALLS, FLOORS OR PARTITIONS THAT WILL BE TAKEN OUT. ALL WORK TO BE DONE IN AN APPROVED MANNER.

C. THE BUILDING FIRE ALARM SYSTEM INTEGRITY SHALL BE MAINTAINED AT ALL TIMES (BEFORE, DURING AND AFTER DEMOLITION AND/OR CONSTRUCTION). TEMPORARILY, SUPPORT ALL DEVICES LOCATED ON WALLS OR CEILINGS TO BE DEMOLISHED. REPROGRAM AND/OR MODIFY EXISTING BASE BUILDING FIRE ALARM SYSTEM TO ACCOMMODATE THE REMOVAL OF DEVICES AND MECHANICAL SYSTEMS AND COMPONENTS. IF THE EXISTING SYSTEM IS FOUND TO BE INOPERABLE, PROVIDE A TEMPORARY SYSTEM DURING CONSTRUCTION. PROVIDE A FIRE WATCH IF REQUIRED BY LOCAL OFFICIALS.

D. THE BUILDING CCTV AND SECURITY SYSTEM INTEGRITY SHALL BE MAINTAINED AT ALL TIMES (BEFORE, DURING AND AFTER DEMOLITION AND/OR CONSTRUCTION). COORDINATE WITH OWNER REMOVAL OF CCTV AND SECURITY SYSTEM DEVICES. RELOCATE TEMPORARILY, IF REQUIRED BY OWNER ALL DEVICES LOCATED ON WALLS OR CEILINGS TO BE DEMOLISHED.

E. PROVIDE TEMPORARY LIGHTING AND POWER FOR ALL TRADES DURING DEMOLITION AND CONSTRUCTION -- WHEN USING TEMPORARY LIGHTING, THE CONTRACTOR SHALL CLEARLY LABEL PANELS AND BREAKERS USED FOR LIGHTING. LOCATION OF PANELS TO BE SHOWN ON FLOOR PLAN POSTED AT ENTRANCE TO WORK AREA. PROPER TEMPORARY LIGHTING AND POWER MUST BE INSTALLED AND MAINTAINED IN ALL WORK AREAS. TEMPORARY LIGHT AND POWER STRINGERS SHALL UTILIZE C-TAP TERMINATIONS. LAMPHOLDERS SHALL HAVE LEFT HANDED SCREW SHELL LAMP HOLDERS AND NON-METALLIC LAMP GUARDS. CONNECTIONS TO EXISTING STAIRWELL AND EXIT LIGHT SYSTEMS ARE NOT PERMITTED.

F. DEMOLITION NOTES ON PLANS ARE INTENDED TO INDICATE MINIMUM DEMOLITION WORK. CONTRACTOR SHALL VERIFY IN FIELD THE FULL EXTENT OF THE WORK. CONTRACTOR SHALL INFORM ARCHITECT AND ELECTRICAL ENGINEER OF ANY DISCREPANCIES.

G. BRANCH CIRCUITRY AND CONTROL WIRING FOR MECHANICAL EQUIPMENT AND DEVICES TO BE REMOVED SHALL BE DISCONNECTED AND REMOVED -- COORDINATE WITH MECHANICAL CONTRACTOR THESE REMOVALS. RELOCATE ANY CONTROL DEVICES TO TEMPORARY LOCATIONS IF REQUIRED. FOR EXISTING A/C UNITS TO BE REMOVED, DISCONNECT AND REMOVE STARTERS, DISCONNECT SWITCHES, JUNCTION BOXES, POWER AND CONTROL WIRING BACK TO SOURCE. CONTINUITY SHALL BE MAINTAINED ON ALL ELECTRICAL CIRCUITS FEEDING POWER TO A/C UNITS OR MECHANICAL EQUIPMENT NOT BEING REMOVED.

H. ALL ELECTRICAL DEVICES REMOVED AND TO BE REINSTALLED SHALL BE CLEANED. ALL OTHER DEVICES THAT ARE REMOVED AND MADE SURPLUS SHALL BE REMOVED FROM THE SITE. CONTRACTOR MUST OBTAIN OWNER'S APPROVAL FOR DISPOSITION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL ELECTRICAL EQUIPMENT NOT DEEMED SALVAGEABLE BY OWNER.

I. THE ELECTRICAL CONTRACTOR SHALL DETERMINE THE EXTENT OF PCB CONTAMINATED BALLASTS (IF ANY) AND SHALL PROPERLY DISPOSE OF SUCH BALLASTS. CONTRACTOR TO DOCUMENT IN WRITING THAT ALL PROPER PROCEDURES AND APPLICABLE ENVIRONMENTAL LAWS WERE ADHERED TO.

J. THE CONTRACTOR SHALL MAINTAIN CONTINUITY OF SERVICE ON ALL CIRCUITS AFFECTED BY THIS DEMOLITION. WHENEVER IT IS REQUIRED THAT AN EXISTING CIRCUIT BE REVISED, DISCONNECTED OR REMOVED, IT SHALL BE UNDERSTOOD THAT THE CIRCUIT SHALL BE RECONNECTED AND SERVICE REESTABLISHED IN THE REMAINING PORTION OF THE CIRCUIT AFFECTED BY THIS ALTERATION.

K. THE CONTRACTOR SHALL CUT BACK TO THE FLOOR, WALL OR CEILING, REMOVE WIRING AND PLUG BOTH ENDS OF CONCEALED CONDUITS MADE OBSOLETE BY THIS ALTERATION. EXPOSED CONDUITS, CABLE TRAYS, WIREWAYS, OUTLET BOXES, PULL BOXES, HANGERS, ETC. MADE OBSOLETE BY THE ALTERATION WORK SHALL BE REMOVED, UNLESS OTHERWISE NOTED.

L. REMOVE AND DISPOSE OF ALL OBSOLETE POWER AND TELECOMMUNICATION WIRING IN FLOOR CELL SYSTEM BACK TO RESPECTIVE SOURCES. ALL FLOOR CELLS SHALL BE THOROUGHLY CLEANED AND VACUUMED. ALL UNUSED DUCT OPENINGS SHALL BE SEALED WITH MANUFACTURED BLANK-OFF PLATES. PATCH FLOOR WITH CONCRETE FLUSH WITH FLOOR SURFACE.

M. IN CONNECTION WITH THE ALTERATIONS TO THE EXISTING BUILDING, THERE MAY BE CERTAIN REMOVALS AND RELOCATIONS OF THE EXISTING ELECTRICAL WORK NECESSARY FOR THE SATISFACTORY PERFORMANCE OF THE GENERAL WORK. THESE CHANGES CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS, BUT SHOULD BE TAKEN INTO CONSIDERATION BY THE CONTRACTOR IN PREPARING HIS PROPOSAL FOR THIS WORK.

N. DURING DEMOLITION PROCEDURES, PROVIDE ALL NECESSARY PROTECTION FOR EXISTING ELECTRICAL WORK REQUIRED FOR REUSE.

O. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE DEMOLITION AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEMS RESTORED TO NORMAL OPERATION.

P. WHERE ELECTRICAL EQUIPMENT EXISTS IN OR ON SURFACES OR EQUIPMENT IS TO BE REMOVED, THE CONTRACTOR SHALL COORDINATE THE WORK OF OTHER TRADES SO THAT ELECTRICAL EQUIPMENT IS DE-ENERGIZED PRIOR TO REMOVAL OF THE SURFACE.

Q. WHERE DISCONNECTION AND REMOVAL OF ELECTRICAL POWER AND EQUIPMENT TO EXISTING EQUIPMENT IS REQUIRED, SUCH DISCONNECTION AND REMOVAL SHALL BE ACCOMPLISHED WELL IN ADVANCE OF REMOVAL OF THE EQUIPMENT.

R. ALL POWER WIRING IN AREAS TO BE DEMOLISHED SHALL BE THOROUGHLY TRACED OUT TO DETERMINE THE DEVICES BEING FED FROM IT. ALL OBSOLETE WIRING AND CONDUIT SHALL BE REMOVED BACK TO THEIR RESPECTIVE PANELS UPON COMPLETION OF DEMOLITION, AN ACCURATE COUNT OF ALL SPARE CIRCUITS IN ALL PANELS SHALL BE MADE BY THE CONTRACTOR AND FURNISHED TO THE ARCHITECT AND ELECTRICAL ENGINEER. INFORMATION SHALL INCLUDE PANEL NAME, PANEL LOCATION, NUMBER OF SPARE CIRCUIT BREAKERS OF EACH SIZE AND TYPE. NUMBER OF EMPTY SPACES FOR FUTURE BBREAKERS IN EACH PANEL.

S. ALL EXISTING ELECTRICAL EQUIPMENT WITHIN THE ELECTRICAL CLOSETS SHALL BE SPECIFIED UNDER THE CONSTRUCTION PHASE OF THE PROJECT.

T. ALL DEMOLISHING WORK, WHICH CREATES DISTURBING NOISE, SHALL BE PERFORM AS PER OWNER'S INSTRUCTIONS. THE REMOVAL OF DEBRIS AND EQUIPMENT MUST BE ARRANGED TO AVOID ANY INCONVENIENCE TO OWNER.

DRAWING LIST	
E-0.1	ELECTRICAL NOTES, SYMBOLS & ABBREVIATIONS
ED-1.0	ELECTRICAL BASEMENT & FIRST FLOOR DEMOLITION PLANS
E-1.0	ELECTRICAL FIRST & SECOND FLOOR POWER PLANS
E-1.1	ELECTRICAL ROOF PLAN
E-2.0	ELECTRICAL FIRST & SECOND FLOOR LIGHTING PLANS
E-3.0	ELECTRICAL RISER DIAGRAM
E-4.0	ELECTRICAL SCHEDULES
E-5.0	ELECTRICAL DETAILS

ELECTRICAL LEGEND:

- EXIT LIGHT REFER TO E-602 FOR SPECIFICATION
  NOTES:
  1. TIE EMERGENCY LIGHTS INTO NEAREST EXISTING EXIT SIGNAGE CIRCUIT. THIS CIRCUIT SHALL BE UNSWITCHED AND REMAIN ON ALWAYS.
- DIMMABLE LIGHT SWITCH
- 3-WAY DIMMABLE LIGHT SWITCH
- LUTRON- MAESTRO-MS-Z101
  WALL MOUNTED DUAL TECHNOLOGY PASSIVE INFRA-RED/NIC, ULTRASOUND OCCUPANCY SENSOR (PROGRAMMED AS "VACANCY SENSOR") WITH MANUAL PUSH-BUTTON ON/OFF SWITCH.
- USB CHARGER RECEPTACLE
- DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- GFIC DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER (ALL KITCHEN RECEPTACLES TO BE GFIC)
- DISCONNECT SWITCH
- TELEPHONE/DATA OUTLET
- EXISTING ELECTRIC PANEL
- NEW ELECTRIC PANEL FLUSH MOUNTED U.O.N
- HOMERUN
- J CEILING MOUNTED JUNCTION BOX

WALL MOUNTED JUNCTION BOX
- CAM - CAMERA
- MD - MOTION DETECTOR
- PB - PANIC BUTTON
- DC - DOOR CONTACT SENSOR
- WIFI - INTERNET (WIRELESS)

ELECTRICAL ABBREVIATIONS:
(NOT ALL ABBREVIATIONS COULD BE USED)

A	AMPERES	HZ	HERTZ
ACT	ABOVE COUNTER TOP	JB	JUNCTION BOX
AFF	ABOVE FINISH FLOOR	KVA	KILOVOLT AMPERES
AWG	AMERICAN WIRE GAUGE	KW	KILOWATTS
BLDG	BUILDING	LP	PANEL DESIGNATION
C	CONDUIT	LTG	LIGHTING
CAT	CATALOG	MAX	MAXIMUM
CAM	CAMERA	MCB	MAIN CIRCUIT BREAKER
CB	CIRCUIT BREAKER	MECH	MECHANICAL
CKT	CIRCUIT	MER	MECHANICAL EQUIPMENT ROOM
CLG	CEILING	MFS	MAIN FUSED SWITCH
DGP	DATA GATHERING PANEL	MIN	MINIMUM
DISC	DISCONNECT	MLO	MAIN LUGS ONLY
DN	DOWN	MTD	MOUNTED
DR	DOOR RELEASE	MW	MICROWAVE
DWG	DRAWING	N	NEUTRAL
ELEC	ELECTRICAL	NC	NORMALLY CLOSED
EM	EMERGENCY	NIC	NOT IN CONTRACT
EQUIP	EQUIPMENT	No.	NUMBER
FACP	FIRE ALARM CONTROL PANEL	NL	NIGHT LIGHT
FBO	FURNISH BY OTHER DIVISION OF WORK	NTS	NOT TO SCALE
FIXT	FIXTURE	P	POLE
FL	FLOOR	PL	PROPERTY LINE BOX
FLEX	FLEXIBLE	PC	PERSONAL COMPUTER
FT	FEET OR FOOT	PNL	PANEL
GA	GAUGE	Ø	PHASE
G, GRD, GND	GROUND	SW	SWITCH
GC	GENERAL CONTRACTOR	SWBD	SWITCHBOARD
GFI	GROUND FAULT INTERRUPTER	SEB	SERVICE END BOX
HD	HAND DRYER	TEL	TELEPHONE
HP	HORSEPOWER	TYP	TYPICAL
HVAC	HEATING, VENTILATING AND AIR CONDITIONING DIVISION OF WORK	U.O.N	UNLESS OTHERWISE NOTED
		UL	UNDERWRITERS LABORATORIES
		V	VOLTAGE

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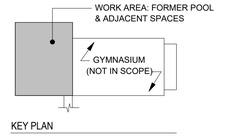

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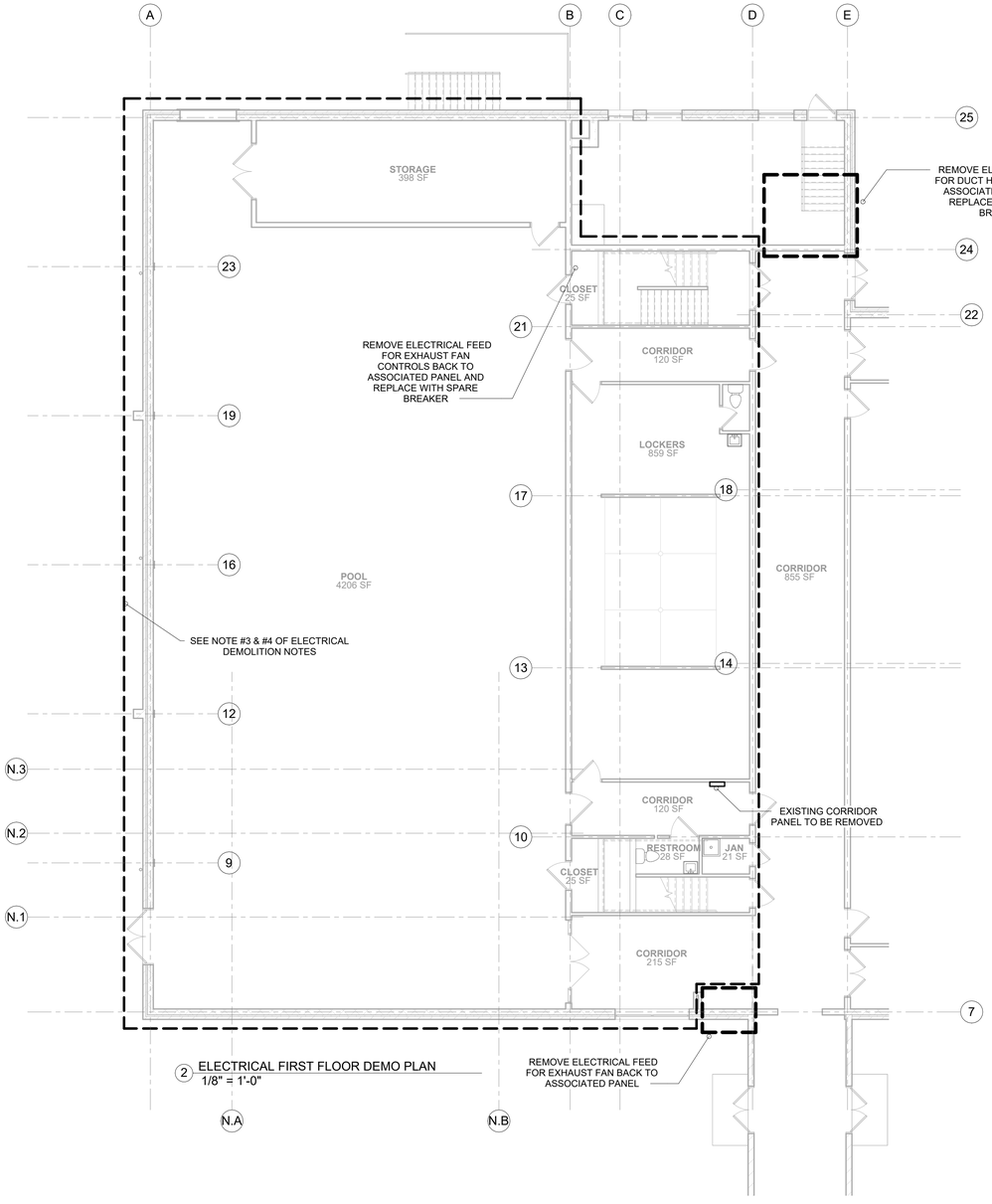
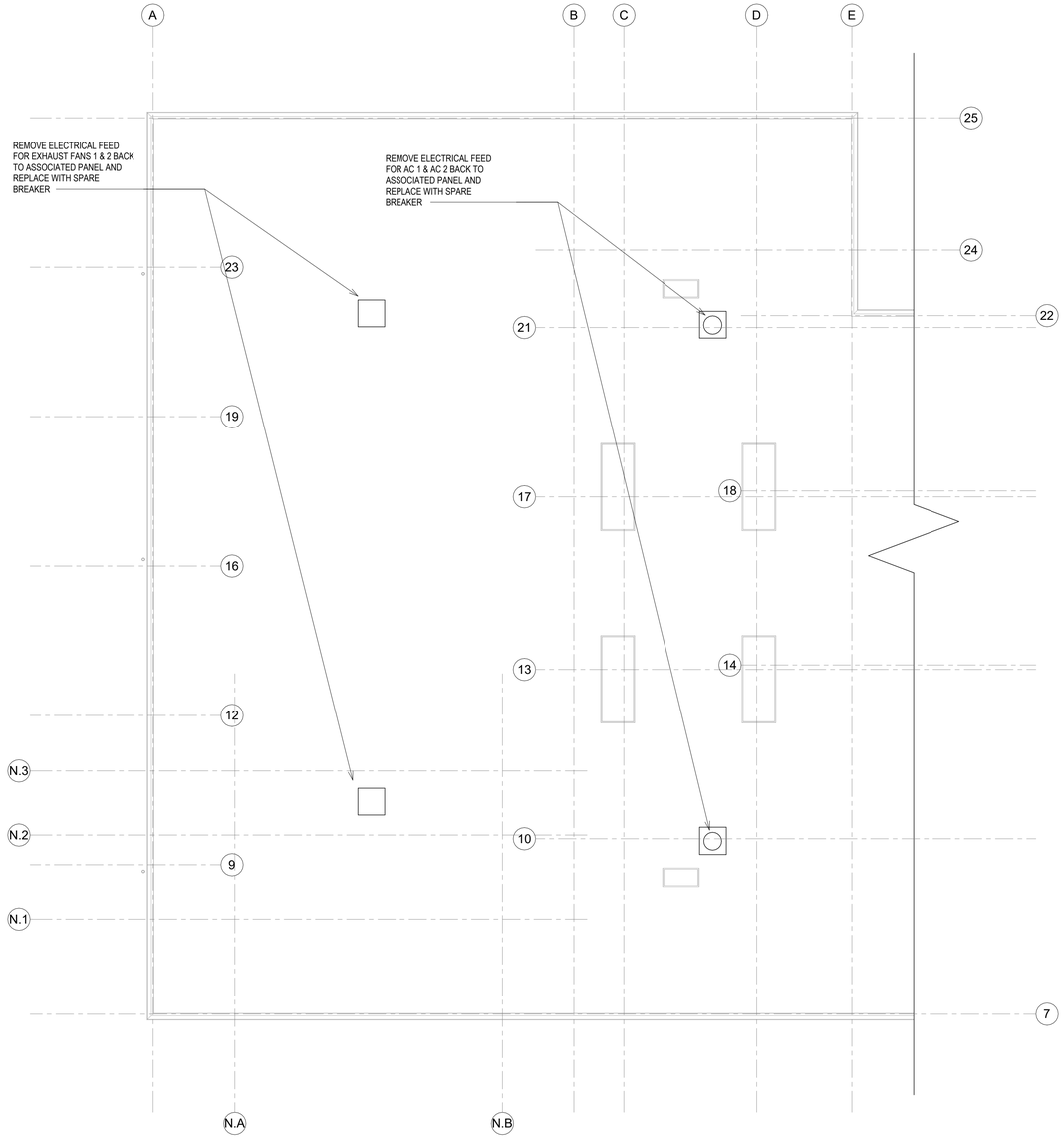
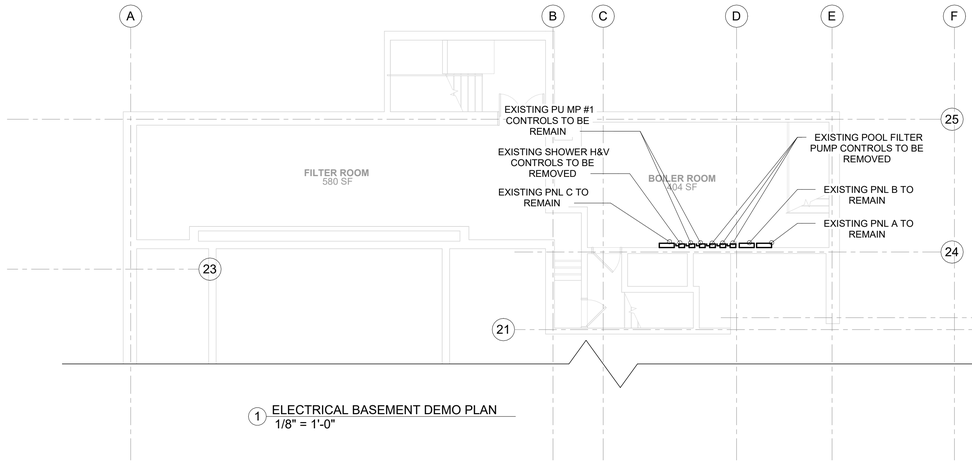


2 ELECTRICAL FIRST FLOOR DEMO PLAN
1/8" = 1'-0"



3 ELECTRICAL ROOF PLAN DEMO
1/8" = 1'-0"



1 ELECTRICAL BASEMENT DEMO PLAN
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES:

1. REFER TO GENRAL NOTES, AND GENERAL DEMOLITION NOTES ON DRAWING E0.1 FOR ADDITIONAL REQUIREMENTS. REFER TO ARCHITECTURAL AND ELEVATOR DRAWINGS AND NOTES FOR ADDITIONAL INFORMATION AND SCOPE OF WORK

2. ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. CONTRACTOR SHALL PERFORM THIS, PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN AND SUCH AN EXAMINATION BEEN MADE.

3. ELECTRICAL CONTRACTOR SHALL DEMOLISH ALL RECEPTACLES AND WIRING BACK TO EXISTING PANELS

4. ELECTRICAL CONTRACTOR SHALL REMOVE ALL POWER, WIRING AND CONDUIT SERVING LIGHTING EQUIPMENT AND OTHER DEVICES SCHEDULED FOR DEMOLITION.

5. TEMPORARY LIGHT STREAMERS, WHERE SPLICED, ARE TO HAVE COMPRESSION FITTINGS OR BE SOLDERED.

6. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND CONFER WITH THE ARCHITECT.

7. ALL DEVICES THAT ARE TO BE REMOVED AND MADE SURPLUS FROM THE SITE LOCATION MUST OBTAIN OWNER'S DISPOSITION AND APPROVAL.

8. WHEN REMOVING WALL MOUNTED RECEPTACLES WITH CONDUIT IN FLOORS OR WALLS, ALL CONDUITS IS TO BE REMOVED (CHOPPING AND PATCHING OF CONCRETE FLOOR INCLUDED) AND THE WIRE IS TO BE PULLED BACK TO THE TRENCH HEADER DUCT AND CAPPED. IF SEPARATE CIRCUIT, WIRE IS TO BE PULLED BACK TO PANEL BOX AND REMOVED FROM BREAKER.

9. ELECTRIC PANELS COVER ARE NOT TO BE LEFT OFF AT ANY TIME UNLESS MEN ARE WORKING ON THEM. COVERS SHALL BE REPLACED EACH NIGHT BEFORE LEAVING JOB SITE.

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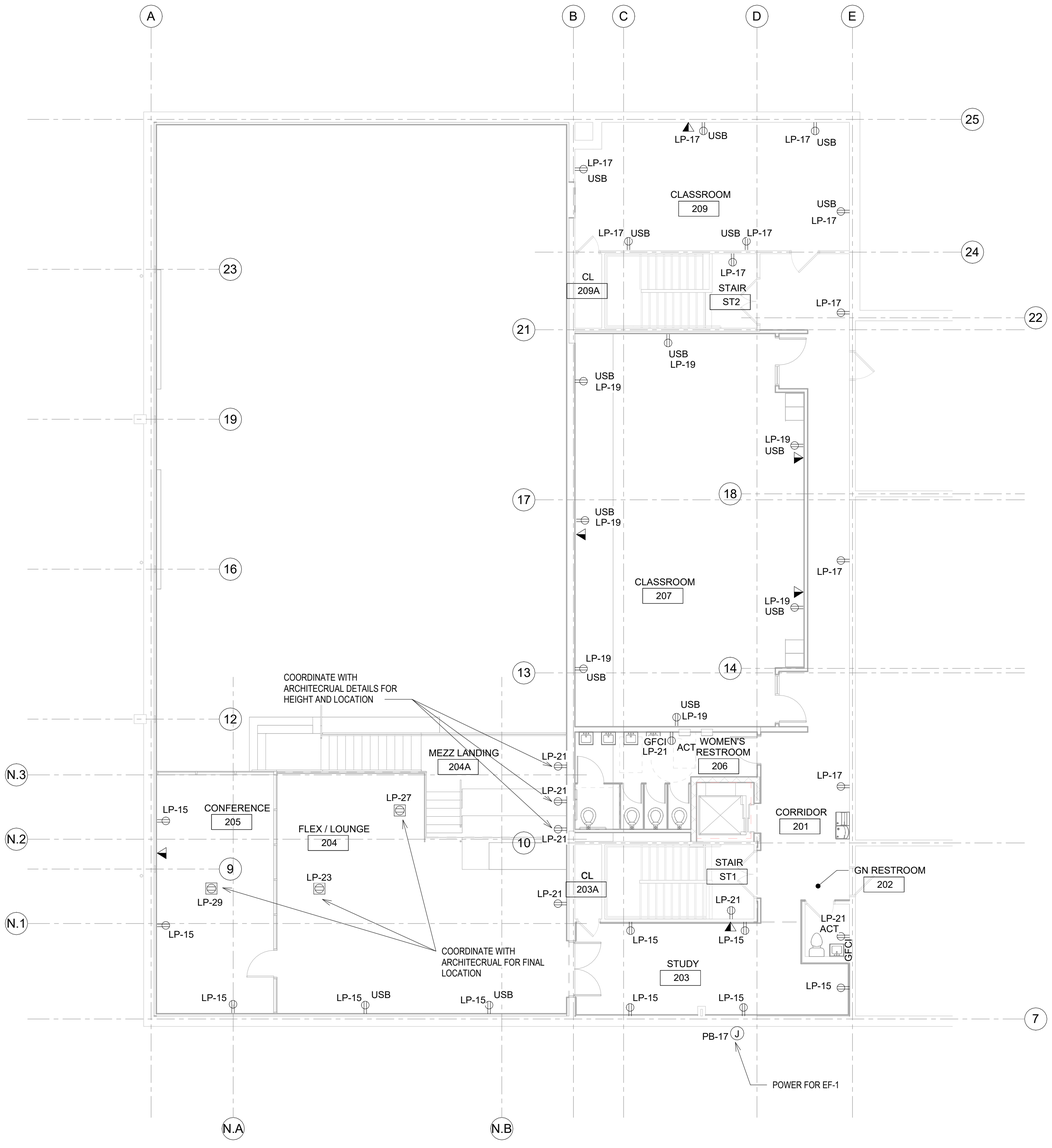
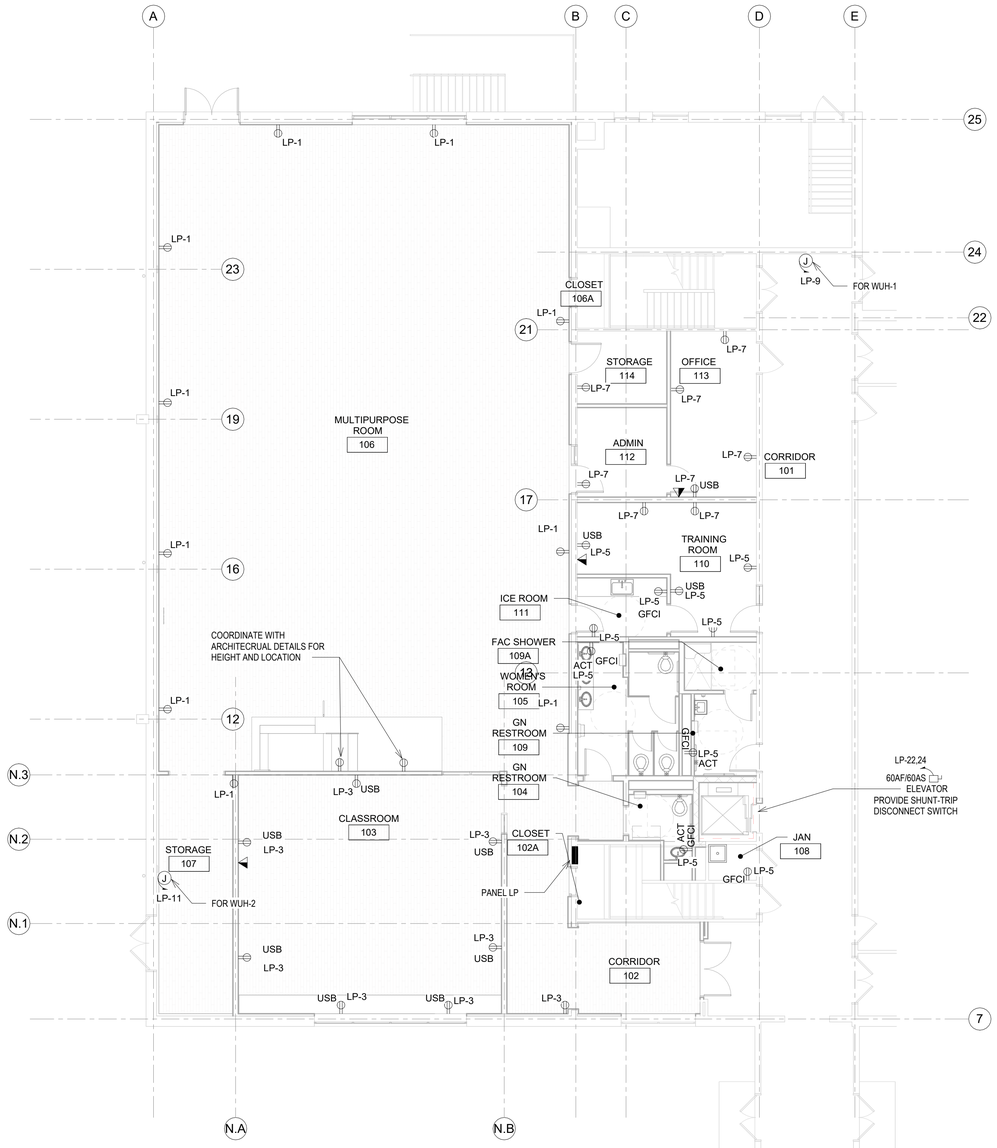
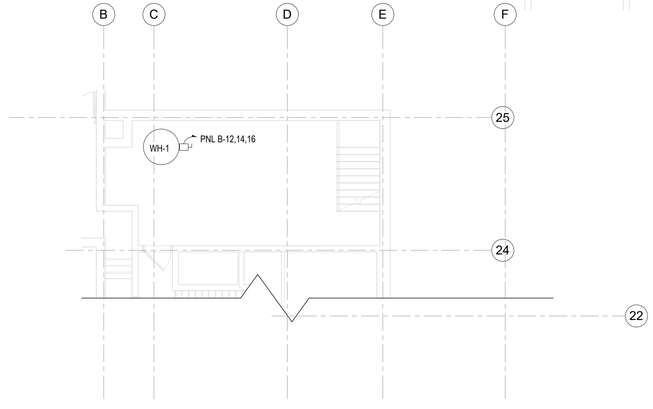
Drawing Number: ED1.0



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



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



3 BASEMENT POWER PLAN
1/8" = 1'-0"

NEW WORK POWER NOTES

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY ELECTRICAL COMPONENTS TO CONNECT ALL CONDUIT TO NEW RECEPTACLES.
2. ELECTRICAL CONTRACTOR SHALL ENERGIZE AND PROVIDE POWER AND ALL ELECTRICAL COMPONENTS, CONDUIT AND WIRE TO NEW RECEPTACLES FROM NEW AND EXISTING PANELS.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ELECTRICAL AND ANCILLARY DEVICES INCLUDING CONDUIT AND WIRE TO ACCOMMODATE NEW SPACE.
4. ALL POWER TO BE PROVIDED FROM NEW ELECTRICAL PANEL "LP"
5. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEBRIS REMOVAL AND CLEANING AFTER ALL ELECTRICAL RELATED WORK IS FINSIHED.
6. NO FURRED OUT WALLS. RUN CONDUIT INSIDE NEW BLOCK WALLS WHERE POSSIBLE. SURFACE EMT TO EXISTING ELSEWHERE. PAINT TO MATCH ADJACENT SURFACE. SEE ARCHITECT PLANS FOR DETAILS AND LOCATIONS

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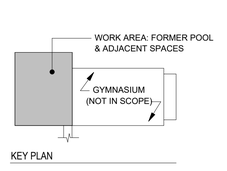

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ELECTRICAL FIRST & SECOND FLOOR POWER PLANS

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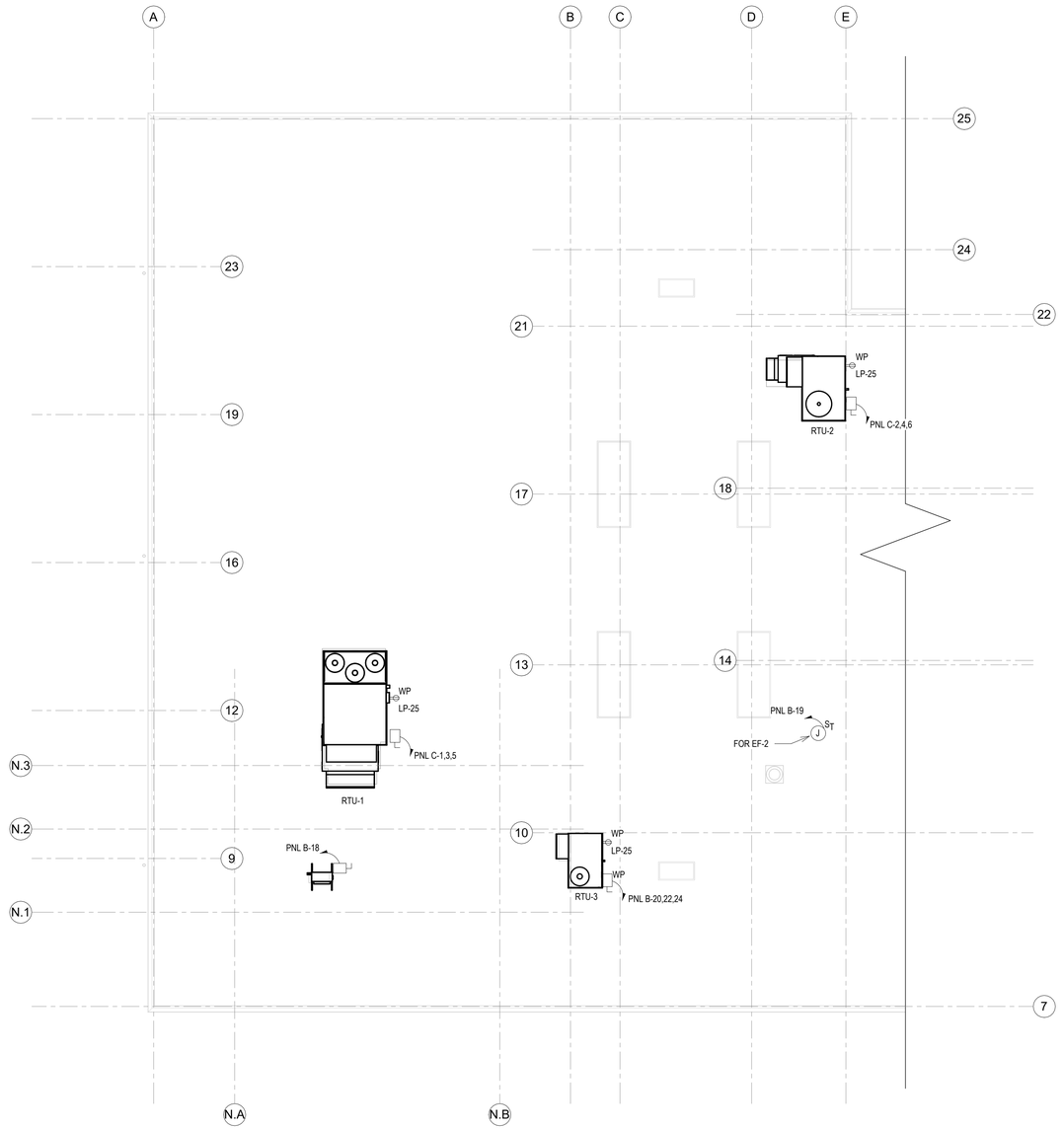

1 ROOF POWER PLAN
1/8" = 1'-0"

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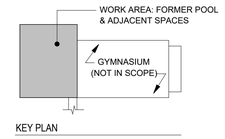

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Drawing Title:
ELECTRICAL ROOF PLAN

Drawing Number:
E1.1

NOTES

MULTIPURPOSE LINEAR FIXTURE (L2) WILL BE VACANCY CONTROLLED. PENDANT FIXTURE (L1) WHEN UNOCCUPIED, THEY WILL REDUCE TO 40% LIGHT OUTPUT AND HAVE A TIME CLOCK OVER RIDE TO CONTROL OPERATING TIMES. THE OCC SENSOR WILL OVER RIDE THE TIME CLOCK.

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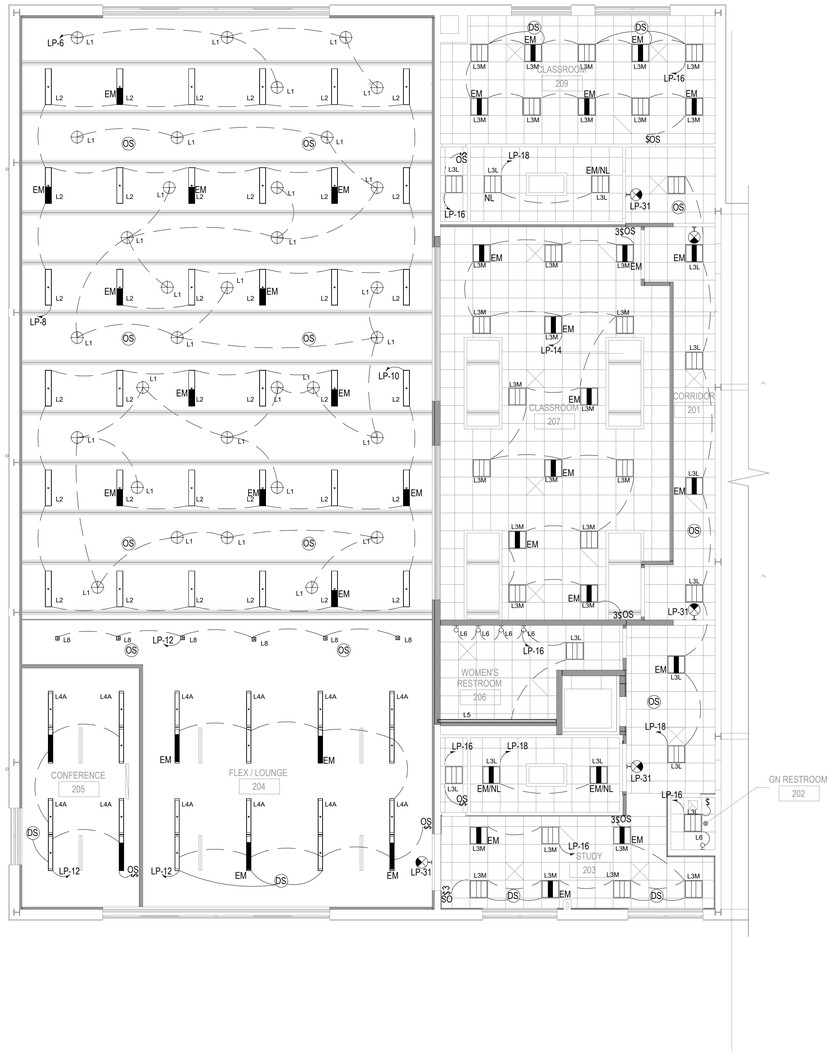
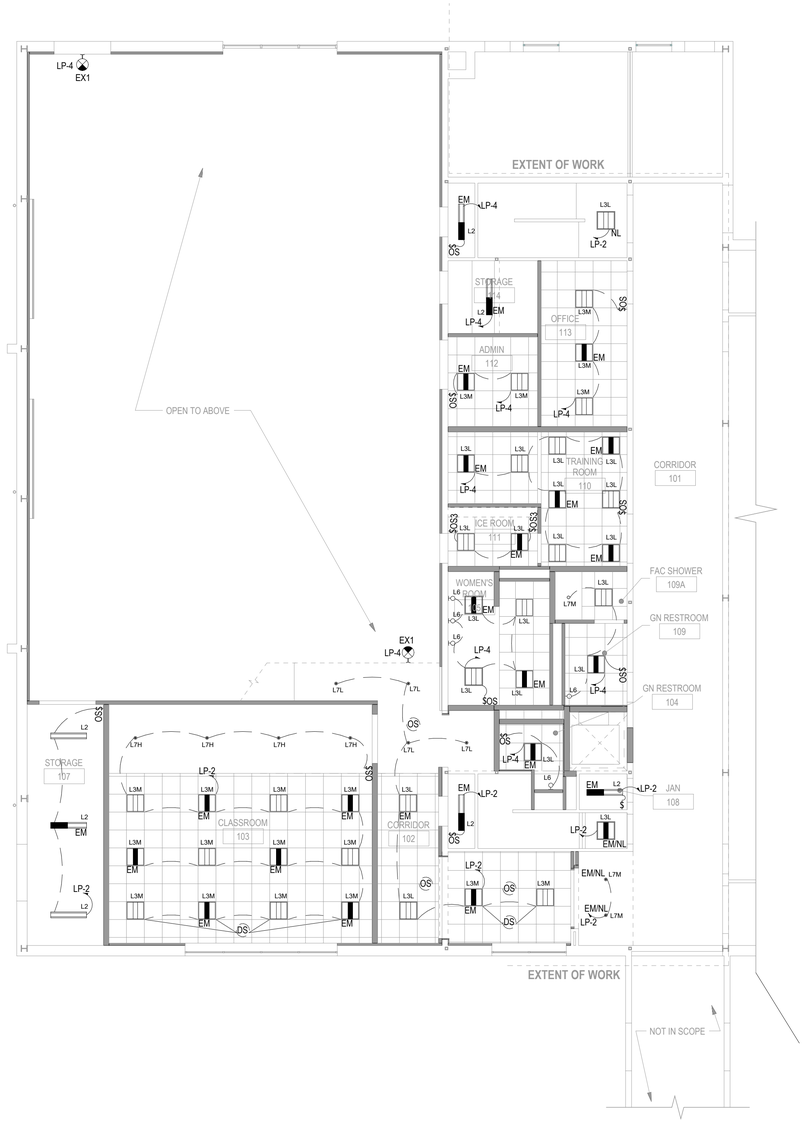
LIGHTING FIXTURE SCHEDULE

CODE	SPECIFICATION	MANUFACTURER/CATALOG NO.	LAMP TYPE	WATTS	NOTES
L1	14" DIAMETER PENDANT MOUNTED GLOBE, 1500 LMNS, 3K COLOR	OCL LIGHTING #EU1-P1CB-X-14-WG-X-LED2-35K-UNV-X-DM1	LED	21	0-10V DIMMING 1%
L2	8" WIDE X 4' LONG LINEAR PENDANT, 7800 LMNS, 35K COLOR, MOUNTED AT 22'-0" AFF	CURRENT LTG #RLB4-35-LHHE-FAM-ED1-U/CM48SCF3-KIT	LED	65	0-10V DIMMING 1%
L3L	2X2 RECESSED LED BASKET TROFFER SET TO LOW OUTPUT, 2642 LMNS, 35K COLOR	CURRENT LTG #CCL22-LSCS	LED	21	0-10V DIMMING 1%
L3M	2X2 RECESSED LED BASKET TROFFER SET TO MEDIUM OUTPUT, 3000 LMNS, 35K COLOR	CURRENT LTG #CCL22-LSCS	LED	25	0-10V DIMMING 1%
L4A	8' LONG INTEGRATED TBAR FIXTURE, 35K COLOR, FINISH AND DIFFUSER TBD	JLC 2-#TBSL-MW-4-X-X-A-X	LED	64	
L5	3.5" WIDE RECESSED WALL SLOT, 625LMS/FT, 35K COLOR.	CORONET LIGHTING #PG4-X-35-MED-UNV-DB-W-X-1*	LED	8/FT	0-10V DIMMING 1%
L6	18" WIDE X 2.5" HIGH WALL SCONCE, BRUSHED NICKEL FINISH, 2100 LMS, 35K COLOR.	MODERN FORMS #WS-34119-35K-BN	LED	25	0-10V DIMMING 1%
L7L	4.5" DIAMETER RECESSED LED DOWNLIGHT, WIDE 90 DEGREE DISTRIBUTION, 1300 LMNS, 35K COLOR, WHITE CONE & FLANGE.	USAI LTG #B4RDF-12G1-35KS-90-S-WH-WH-NCSM-UNV-D6E	LED	12	0-10V DIMMING 1%
L7M	4.5" DIAMETER RECESSED LED DOWNLIGHT, WIDE 90 DEGREE DISTRIBUTION, 1800 LMNS, 35K COLOR, WHITE CONE & FLANGE.	USAI LTG #B4RDF-16G1-35KS-90-S-WH-WH-NCSM-UNV-D6E	LED	16	0-10V DIMMING 1%
L7H	4.5" DIAMETER RECESSED LED DOWNLIGHT, WIDE 90 DEGREE DISTRIBUTION, 2650 LMNS, 35K COLOR, WHITE CONE & FLANGE.	USAI LTG #B4RDF-24G1-35KS-90-S-WH-WH-NCSM-UNV-D6E	LED	24	0-10V DIMMING 1%
L8	4.5" SQUARE RECESSED LED DOWNLIGHT FOR WOOD CEILING, WIDE 90 DEGREE DISTRIBUTION, 2400 LMNS, 35K COLOR, FINISH TBD	USAI LTG #B4SDM-24C3-35KS-90-S-X-X-X-UNV-D6E	LED	24	0-10V DIMMING 1%



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



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

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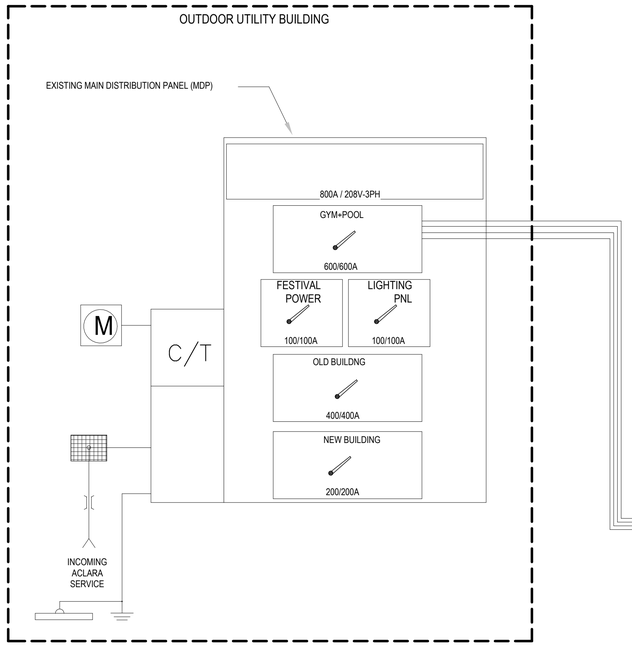
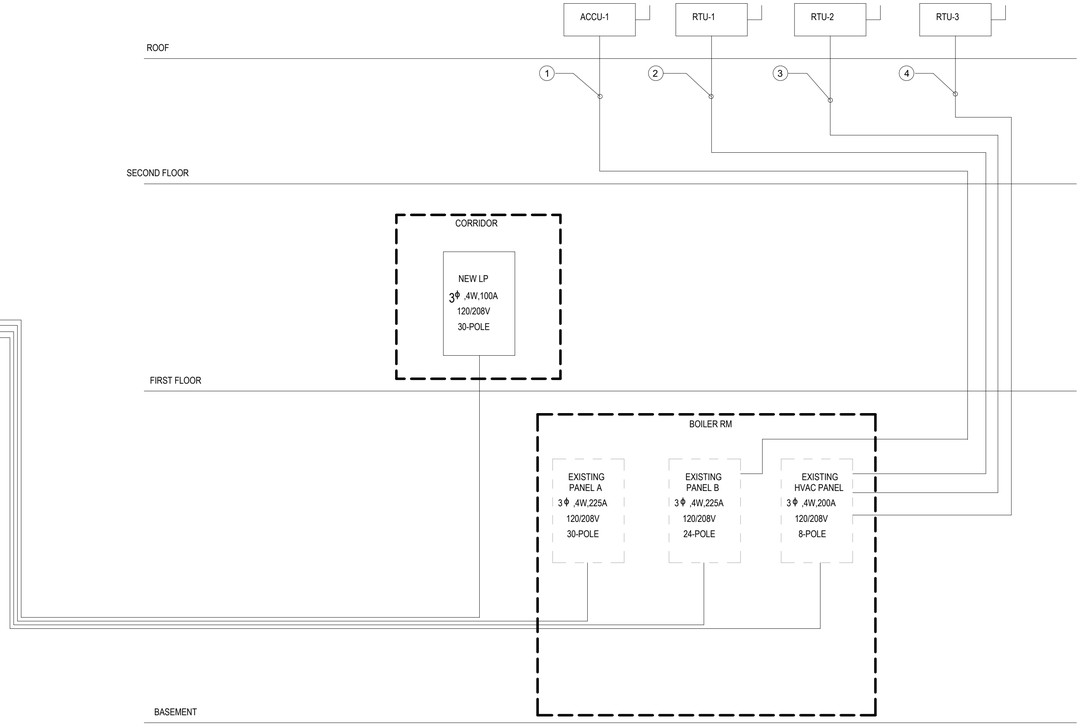
Drawing Number: E2.0





ELECTRICAL RISER DIAGRAM
NTS

FEEDER SCHEDULE	
1	2#10+(1)#8G IN 3/4"C
2	4#1+(1)#8G IN 2"C
3	4#8+(1)#8G IN 1 1/4"C
4	4#6+(1)#8G IN 1 1/4"C

NOTE
ALL CONDUCTOR SIZES ARE BASED ON 60 DEG C RATED TERMINATIONS. COPPER CONDUCTORS ARE BASED ON THHN/THWN-2 INSULATION. FOR ANY OTHER CONDITIONS ALLOWED PER SPECIFICATIONS, OR FOR TERMINATIONS OR INSULATION TYPES RATED LESS THAN 75 DEG C, MODIFY SIZES ACCORDING TO NFPA 70.

RISER DIAGRAM GENERAL NOTES:

1. PROVIDE A PERMANENT LABEL TO FRONT OF EQUIPMENT ENCLOSURE; REFER TO SPECIFICATIONS FOR LABEL REQUIREMENTS. LABEL SHALL READ AS FOLLOWS (INCLUDE RESPECTIVE NAMES IN BLANKS): SERVICE EQUIPMENT LABEL: LINE 1: NOMINAL VOLTAGE AND FREQUENCY IN HERTZ LINE 2: SERVICE EQUIPMENT BUS RATING IN AMPS LINE 3: SCCR OF SERVICE EQUIPMENT IN AMPS LINE 4: MAXIMUM AVAILABLE FAULT CURRENT IN AMPS LINE 5: DATE CALCULATED. **EXAMPLE:** : 208Y/120V, 60HZ 800A SCCR = 65,000A MAX AVAILABLE FAULT CURRENT = 58,815A PANELBOARD/SWITCHBOARD LABEL: LINE 1: PANELBOARD "_____" SUPPLIED BY UPSTREAM LINE 2: PANELBOARD/SWITCHBOARD "_____" LINE 3: LOCATED IN "_____" LINE 4: PANELBOARD "_____" SUPPLIES DOWNSTREAM LINE 5: PANELBOARD(S) "_____"
2. ROOM NAMES/NUMBERS SHOWN IN PANELBOARD SCHEDULES ARE PER ARCHITECTURAL FLOOR PLANS. CONTRACTOR SHALL PROVIDE FINALIZED PANEL BOARD SCHEDULES AT THE COMPLETION OF THE PROJECT MATCHING ACTUAL INSTALLED ROOM NUMBERS AND NAMES. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. PROVIDE TYPED FINAL CIRCUIT DIRECTORY FOR ALL PANELBOARDS TO REFLECT ACTUAL AS-BUILT CONDITIONS. CIRCUIT DESCRIPTIONS SHALL BE PER CODE AND SHALL BE DISTINGUISHABLE FROM ALL

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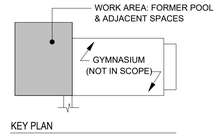

KEY PLAN

No.	Date	Revisions
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Author	Checker	Approver

Job Number: 786
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PERMIT SET SUBMISSION

Drawing Title:
ELECTRICAL RISER DIAGRAM

Drawing Number:
E3.0

NEW ELECTRICAL PANEL: LP

VOLTS: 120/208
PHASE: 3
AMPS: 200

Branch Circuit			Conductor		Conduit		W	FED FROM MDP MLO: 200A A B C	Branch Circuit			Conductor		Conduit		W
Circuit Breaker Pole #	Circuit Breaker Trip AMP	Load Designation	No.	AWG MCM	No.	Size			Circuit Breaker Pole #	Circuit Breaker Trip AMP	Load Designation	No.	AWG MCM	No.	Size	
1	20	RECEPTACLES	2	#12	1	3/4"C	1800		2	20	LIGHTING	2	#12	1	3/4"C	914
3	20	RECEPTACLES	2	#12	1	3/4"C	1440		4	20	LIGHTING	2	#12	1	3/4"C	610
5	20	RECEPTACLES	2	#12	1	3/4"C	1800		6	20	LIGHTING	2	#12	1	3/4"C	672
7	20	RECEPTACLES	2	#12	1	3/4"C	1440		8	20	LIGHTING	2	#12	1	3/4"C	1170
9	30	SPARE							10	20	LIGHTING	2	#12	1	3/4"C	1170
11	30	SPARE							12	20	LIGHTING	2	#12	1	3/4"C	912
13	20	AC-1	2	#12	1	3/4"C	475		14	20	LIGHTING	2	#12	1	3/4"C	375
15	20	RECEPTACLES	2	#12	1	3/4"C	1800		16	20	LIGHTING	2	#12	1	3/4"C	717
17	20	RECEPTACLES	2	#12	1	3/4"C	1800		18	20	LIGHTING	2	#12	1	3/4"C	231
19	20	RECEPTACLES	2	#12	1	3/4"C	1260		20	15	ELEVATOR LIGHTING & RECEPT.	2	#12	1	3/4"	3300
21	20	RECEPTACLES	2	#12	1	3/4"C	1260		22	1P / 60	ELEVATOR	3	#6	1	1 1/4"	13800
23	20	FLOOR BOX	2	#12	1	3/4"C	360		24							
25	20	RECEPTACLES	2	#12	1	3/4"C	540		26	1P / 30	WUH-1	3	#10	1	3/4"C	4500
27	20	FLOOR BOX	2	#12	1	3/4"C	360		28							
29	20	FLOOR BOX	2	#12	1	3/4"C	360		30	1P / 30	WUH-2	3	#10	1	3/4"C	4500
31	20	EXIT LIGHTING	2	#12	1	3/4"C	360		32							
33	20	SPARE							34	20	SPARE					
35	20	SPARE							36	20	SPARE					
37	20	SPARE							38	20	SPACE					
39	20	SPACE							40	20	SPACE					
41	20	SPACE							42	20	SPACE					

TOTAL LOAD: 56KW = 158AMPS

1. WHERE EQUIPMENT GROUNDS ARE INDICATED, THEY SHALL BE RUN FROM THE EQUIPMENT DISCONNECT SWITCH OR CIRCUIT BREAKER THROUGH THE FLEXIBLE CONNECTION TO THE EQUIPMENT SERVED. BOND THE GROUND WIRE TO THE PROTECTIVE DEVICE ENCLOSURE AND TO THE EQUIPMENT.

EXISTING ELECTRICAL PANEL: C

VOLTS: 120/208
PHASE: 3
AMPS: 225

Branch Circuit			Conductor		Conduit		W	FED FROM MDP MLO: 200A A B C	Branch Circuit			Conductor		Conduit		W
Circuit Breaker Pole #	Circuit Breaker Trip AMP	Load Designation	No.	AWG MCM	No.	Size			Circuit Breaker Pole #	Circuit Breaker Trip AMP	Load Designation	No.	AWG MCM	No.	Size	
1	3P / 100	RTU 1	4	#1	1	2"C	32004		2	3P / 40	RTU-2	4	#8	1	1 1/4"C	10440
3									4							
5									6							
7	20	RECEPTACLES	2	#12	1	3/4"C	540		8	20	SPARE					

1. WHERE EQUIPMENT GROUNDS ARE INDICATED, THEY SHALL BE RUN FROM THE EQUIPMENT DISCONNECT SWITCH OR CIRCUIT BREAKER THROUGH THE FLEXIBLE CONNECTION TO THE EQUIPMENT SERVED. BOND THE GROUND WIRE TO THE PROTECTIVE DEVICE ENCLOSURE AND TO THE EQUIPMENT.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKER AS INDICATED IN ELECTRICAL PANEL SKETCH
3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL BRANCH WIRING FOR NEW CIRCUITS AS REQUIRED
4. NEW BREAKERS SHALL MATCH BRAND AND AIC RATING OF THE EXISTING PANELBOARD

TOTAL LOAD: 42 KW = 116 AMPS

EXISTING ELECTRICAL PANEL: B

VOLTS: 120/208
PHASE: 3
AMPS: 225

Branch Circuit			Conductor		Conduit		W	FED FROM MDP MLO: 200A A B C	Branch Circuit			Conductor		Conduit		W
Circuit Breaker Pole #	Circuit Breaker Trip AMP	Load Designation	No.	AWG MCM	No.	Size			Circuit Breaker Pole #	Circuit Breaker Trip AMP	Load Designation	No.	AWG MCM	No.	Size	
1	20	EXISTING							2	20	SPARE					
3	20	EXISTING							4	20	SPARE					
5	20	SPARE							6	20	SPARE					
7	20	EXISTING							8	20	SPARE					
9	20	EXISTING							10	20	SPARE					
11									12	3P / 60	WATER HEATER	4	#6	1	1 1/4"C	15000
13	20	SPARE							14							
15	20	SPARE							16							
17	20	EF-1	2	#12	1	3/4"C	832		18	25	ACCU-1	2	#10	1	3/4" C	3910
19	20	EF-2	2	#12	1	3/4"C	396		20	3P / 50	RTU-3	4	#6	1	1 1/4"C	15840
21	20	SUMP PUMP	2	#12	1	3/4"C	746		22							
23	20	BOOSTER PUMP	2	#12	1	3/4"C	2236		24							

1. WHERE EQUIPMENT GROUNDS ARE INDICATED, THEY SHALL BE RUN FROM THE EQUIPMENT DISCONNECT SWITCH OR CIRCUIT BREAKER THROUGH THE FLEXIBLE CONNECTION TO THE EQUIPMENT SERVED. BOND THE GROUND WIRE TO THE PROTECTIVE DEVICE ENCLOSURE AND TO THE EQUIPMENT.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKER AS INDICATED IN ELECTRICAL PANEL SKETCH
3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL BRANCH WIRING FOR NEW CIRCUITS AS REQUIRED
4. NEW BREAKERS SHALL MATCH BRAND AND AIC RATING OF THE EXISTING PANELBOARD

TOTAL LOAD: 39KW = 108AMPS

Equipment Loads

Item	Name	Quantity	Voltage	Load (amps)	Load (watts)
elev.	elevator	1	230/1	60	13,800
p1	sump pump	1	208/1	10	740
p2	booster pump	1	208/1	15	2,237
wh1	water heater	1	208/3	42	15,000
EF-1	exhaust fan	1	208/1	4	832
EF-2	exhaust fan	1	208/1	2	396
WUH	Unit heater	1	208/1	30	4,500
WUH	Unit heater	1	208/1	30	4,500
ST					42,005

Lighting Load

Load		Watts / sqft.		Square Feet	Load (watts)
NEC Lighting Load	ST	3	x	10,836	32,508

Receptacle Load

Load		Watts / Rec.		# of Recepts	Load (watts)
NEC Receptacle Load	ST	180	x	100	18,000
				1st 10 KVA	10,000
				50% Remainder	4,000
				ST	14,000

Mechanical Loads

Item	Name	Quantity	Voltage	Load (amps)	Load (watts)
RTU1		1	208/3	100	32,004
RTU2		1	208/3	40	10,440
RTU3		1	208/3	40	15,840
ACCU		1	208/1	50	3,910
ac-1		1	208/1	2.2	475
ST					62,669
TOTAL			**208/3**	**420**	**151,182**

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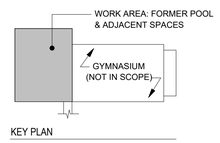

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Seal:

Drawn: Author | Checked: Checker | Approved: Approver

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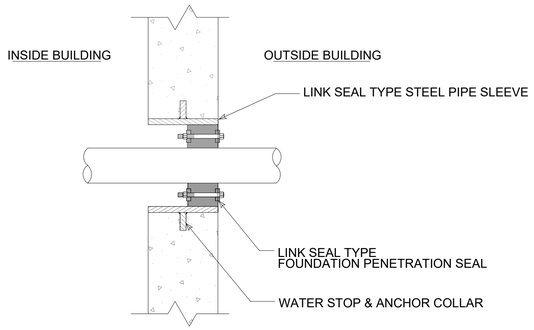
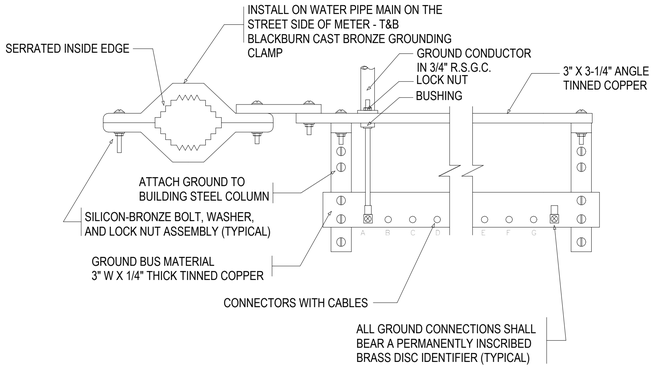
Drawing Set: PERMIT SET SUBMISSION

Drawing Title: ELECTRICAL SCHEDULES

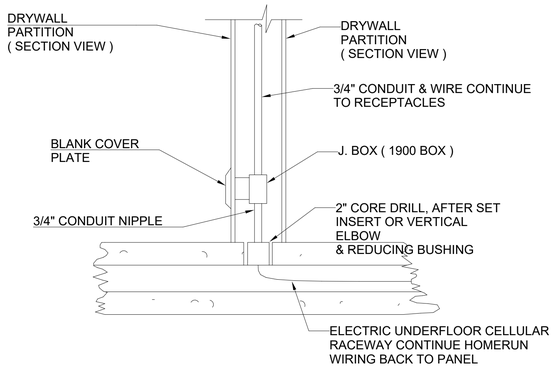
Drawing Number: E4.0



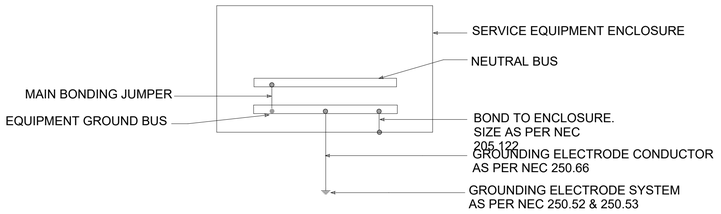
1 CONDUIT PENETRATION FOUNDATION WALL
1/8" = 1'-0"



2 GROUNDING WATER PIPE GROUND CONNECTIONS AND GROUND BUS
1/8" = 1'-0"



3 CONNECTION TO FLOOR CELL TO HOMERUN
1/8" = 1'-0"



4 GROUNDING SYSTEM WITH GROUND BUS AND NEUTRAL BUS
1/8" = 1'-0"

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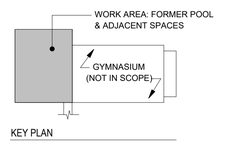

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Drawing Title:
ELECTRICAL DETAILS

Drawing Number:
E5.0

PLUMBING GENERAL NOTES - "A"

1. THE WORK INDICATED ON THESE DRAWINGS ARE DRAWN DIAGRAMMATIC AND ARE INTENDED TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR MAY MAKE CHANGES WHEN APPROVED IN WRITING BY THE ARCHITECT/ENGINEER WITH NO ADDITIONAL COST.
2. THE CONTRACTOR SHALL PROVIDE NEW PLUMBING FIXTURES, PIPING, INSULATION, VALVES AN APPURTENANCES AS SHOWN ON THE DRAWINGS AND AS REQUIRED FOR A COMPLETE SYSTEM.
3. DURING CONSTRUCTION ALL OPEN ENDS OF PIPING SHALL BE PLUGGED AND CAPPED WITH PLASTIC OR METAL CAPS TO KEEP DIRT OUT OF THE SYSTEM.
4. NO DEAD ENDS SHALL BE LEFT ON ANY DRAINAGE PIPING UPON COMPLETION OF WORK.
5. UPON COMPLETION OF WORK THE ENTIRE SYSTEM SHALL BE LEFT IN PERFECT WORKING ORDER.
6. SUBMIT SHOP DRAWINGS SUFFICIENTLY IN ADVANCE OF THE WORK TO ALLOW PROPER TIME FO REVIEW. MATERIALS SHALL NOT BE FABRICATED OR DELIVERED TO THE SITE BEFORE THE SHOP DRAWINGS HAVE BEEN APPROVED.
7. NEW SHUT-OFF VALVES SHALL BE PROVIDED AS REQUIRED TO ISOLATE DIFFERENT AREAS OF THE PLUMBING SYSTEM.
8. VENT PIPE SHALL BE GRADED TO DRAIN OUT ALL MOISTURE AND PREVENT SCALE ACCUMULATION.
9. ALL VALVES AND SPECIALTIES SHALL BE SO PLACED AS TO PERMIT EASY OPERATION AND ACCESS.
10. PROVIDE CAULKING BETWEEN WATER CLOSETS AND FINISHED FLOOR AS REQUIRED.
11. FINAL INSPECTION AND TEST OF COMPLETED SYSTEM SHALL BE MADE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.
12. THE CONTRACTOR SHALL INSULATE ALL HOT AND COLD DOMESTIC WATER PIPING LOCATED ABOVE CEILINGS AND IN WALLS AFTER TESTING THE SYSTEM.
13. BEFORE BEING PLACED IN SERVICE ALL POTABLE WATER PIPING SHALL BE CLEANED, FLUSHED AND DISINFECTED.
14. UPON COMPLETION OF WORK ALL EXCESS MATERIAL, DEBRIS, ETC, SHALL BE REMOVED AND WORK AREA LEFT CLEAN TO THE OWNER'S SATISFACTORY.
15. INSTALL ARROWS ON PIPING IN ACCESSIBLE AREAS TO INDICATE DIRECTION OF FLOW.
16. ALL CONSTRUCTION MATERIALS DISTURBED BY THIS CONTRACTOR SHALL BE REPLACED WITH NEW MATERIAL TO MATCH EXISTING.
17. WHEN THE NEW EQUIPMENT IS INSTALLED BY OTHERS, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL NEW APPROPRIATE ROUGHING AND MAKING FINAL CONNECTIONS SUCH AS COLD AND HOT WATER, VENTS, GAS, ETC.
18. TESTING OF COMPLETE SYSTEM SHALL BE MADE IN THE PRESENCE OF OWNER'S REPRESENTATIVE AND THE AUTHORITIES HAVING JURISDICTION, AS REQUIRED BY LOCAL CODE.
19. IF INSPECTION OR TEST SHOW DEFECTS, SUCH DEFECTIVE WORK OR MATERIAL SHALL BE REPLACED AND INSPECTION AND TEST SHALL BE REPORTED. REPAIR TO PIPING SHALL BE MADE WITH NEW MATERIAL.
20. STANDARD FOR EQUIPMENT MANUFACTURER, MODEL AND CAPACITY OF EQUIPMENT OR FIXTURES ARE LISTED ON THE DRAWINGS OR IN SPECIFICATION. ANY OTHER MANUFACTURER OR MODELS ARE CONSIDERED TO BE SUBSTITUTIONS.
21. SUBSTITUTIONS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER. IF A SUBSTITUTION IS SUBMITTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE IT AND CERTIFY THAT THE SUBSTITUTION IS EQUIVALENT IN ALL RESPECTS TO THE BASE SPECIFICATIONS.
22. IF SUBSTITUTION ARE APPROVED, NOTIFY ALL OTHER CONTRACTORS OR TRADES AFFECTED BY THE SUBSTITUTION AND FULLY COORDINATE. ANY COST RESULTING FROM SUBSTITUTION AND WHETHER BY CONTRACTOR OR OTHERS, SHALL BE THE RESPONSIBILITY OF AND PAID FOR BY SUBSTITUTION CONTRACTORS.
23. FIRE STOP ALL PENETRATIONS OF FIRE RATED CONSTRUCTION IN A CODE APPROVED MANNER IN ORDER TO MAINTAIN FIRE RATING. PROVIDE UL LISTED FIRE STOPPING.
24. FULLY WARRANTY ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE.
25. REPAIR OR REPLACE WITHOUT CHARGE TO THE OWNER ALL ITEMS FOUND DEFECTIVE DURING THE WARRANTY PERIOD.
26. PIPING INSTALLED UNDER SLAB SHALL BE CAREFULLY LAID OR PLACED ON WELL PREPARED, TAMPED SOIL BED OF FINE CRUSHED STONE OR SAND TO FIT THE PIPE CONTOUR, WITH ALL VOID UNDER PIPE FILLED AND THOROUGHLY TAMPED PROVIDING FULL BARREL LENGTH SUPPORT.
27. ALL WATER LINES SHALL BE PITCHED TO LOW POINTS FOR DRAINAGE. PITCH ALL SOIL AND WASTE PIPING AS FOLLOWS:
    A.) 2" SANITARY PIPING AND SMALLER, 1/4" PER FOOT MINIMUM.
    B.) 3" SANITARY PIPING AND LARGER, 1/8" PER FOOT MINIMUM.
28. ACCESS DOORS SHALL BE PROVIDED, AS MINIMUM FOR:
    A.) CONCEALED VALVES.
    B.) CONCEALED SHOCK ABSORBERS.
    C.) CONCEALED AIR-POP CONNECTIONS.
    D.) CONCEALED TRAP PRIMER UNITS.
29. ACCESS DOOR SHALL BE FURNISHED BY THIS CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.
30. CONTRACTOR SHALL SIZE ACCESS DOOR TO PERMIT REMOVAL AND SERVICING OF ALL EQUIPMENT, BUT IN ANY CASE, SHALL NOT BE LESS THAN 12"X16".
31. NOTES ON ANY DRAWING SHALL ALSO APPLY TO ALL OTHER CONTRACT DRAWINGS UNLESS OTHERWISE SPECIFIED.
32. ALL BRACKETS, PLATES, CHANNELS, ETC, SHALL BE GALVANIZED UNLESS OTHERWISE SPECIFIED.
33. ALL SURFACES DAMAGED IN THE COURSE OF THE WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND IN A FULLY OPERABLE MANNER.
34. COORDINATE AND SCHEDULE ALL WORK TO MEET THE OVERALL DESIGN OBJECTIVE.
35. FOR ALL PIPES AND CONDUITS PASSING THROUGH WALL OR FLOORS, PROVIDE PIPE SLEEVES.
36. PROVIDE DRAIN VALVES AT ALL LOW POINTS.
37. CHANGES IN DIRECTION IN DRAINAGE PIPING SHALL BE MADE WITH APPROPRIATE USE OF 45 DEGREE WYES, LONG SWEEPS, QUARTER, SIXTH, EIGHTH, OR SIXTEENTH BENDS.
38. PROVIDE CLEANOUTS ON DRAIN LINES AS SHOWN ON DRAWINGS AND AS REQUIRED BY CODE.
39. CORE DRILLING FOR PENETRATION THROUGH FOUNDATION WALLS SHALL BE DONE BY PLUMBING CONTRACTOR.
40. CONTRACTOR SHALL NOT FASTEN ANY EQUIPMENT AND MATERIAL FROM ROOF DECKING. CONTRACTOR SHALL SUPPORT EQUIPMENT AND MATERIAL FROM BEAMS/JOISTS, IF NEED TO CONTRACTOR SHALL PROVIDE ADDITIONAL SUPPORT STEEL ON METAL TO ATTACH TO BEAMS.
41. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED AND ADJUSTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION UNLESS OTHERWISE SHOWN.
42. ALL GALVANIZED PARTS SHALL BE PAINTED PER SPECIFICATIONS BY THE PLUMBING CONTRACTOR.
43. ALL HOT AND COLD WATER PIPES 1.5" IN DIAMETER AND SMALLER SHALL HAVE A MINIMUM OF 1.5" INSULATION. PIPES LARGER THAN 1.5" IN DIAMETER SHALL HAVE A MINIMUM OF 2" OF INSULATION. EXCEPTION: PROVIDE 1.5" INSULATION FOR ALL CIRCULATION WATER PIPES. SEE SPECIFICATION SECTION 220719 AND ENERGY CODE NOTES ON THIS DRAWING.

ENERGY CODE NOTES

1. ALL PIPING IN CIRCULATING SYSTEM IS INSULATED. 1.5" FOR PIPES <= 1.5" AND 2" FOR PIPES > 1.5".
2. OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO BUILDING OWNER
3. AUTOMATIC CONTROLS FOR FREEZE PROTECTION SYSTEMS SHALL BE PRESENT.
4. AUTOMATIC TIME SWITCHES SHALL BE INSTALLED TO AUTOMATICALLY SWITCH OFF THE RECIRCULATING HOT-WATER SYSTEM.
5. PIPING FLUIDS ABOVE 105 DEGREES AND BELOW 55 DEGREES SHALL HAVE A MINIMUM OF R-3 INSULATION
6. DOMESTIC WATER HEATER MEETS MINIMUM 95% EFFICIENCY REQUIREMENTS:
7. ALL PIPING IN DOMESTIC HOT AND COLD WATER SYSTEM IS INSULATED. 1.5" FOR PIPES <= 1.5" AND 2" FOR PIPES > 1.5".

THIS PLAN IS APPROVED FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON TO BE CONSIDERED AS EITHER BEING APPROVED OR IN

PLUMBING GENERAL NOTES - "B"

1. ALL EXPOSED PIPES SHALL BE ARRANGED TO PERMIT ACCESS FOR MAINTENANCE.
2. ALL DRAIN AND VENT PIPES SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT.
3. ALL COLD WATER PIPES OUTSIDE THE HEATED STRUCTURES LESS THAN 4'-6" BELOW GRADE OR SUBJECT TO FREEZING SHALL BE INSULATED AND HEAT TRACED. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER SUPPLY.
4. COORDINATE WORK SHOWN ON THESE DRAWINGS WITH OTHER DRAWINGS.
5. COORDINATE SLOPING OF FLOORS TO FLOOR DRAINS.
6. THE CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK THE DRAWINGS OF THE OTHER TRADES TO VERIFY WHICH WORK WILL BE INSTALLED FIRST BEFORE PROCEEDING WITH INSTALLATION.
7. THE CONTRACTOR SHALL REPAIR AT OWN EXPENSE ANY PIECE OF EQUIPMENT AND /OR MATERIAL WHICH IS FOUND TO BE DEFECTIVE. THE REPLACEMENT OR REPAIR SHALL BE DONE AS SOON AS NOTIFIED. THE CONTRACTOR SHALL ALSO REPAIR ALL DAMAGES TO SURROUNDING WORK CAUSED BY FAILURE OF REPAIR OR REPLACEMENT OF THE DEFECTED EQUIPMENT OR MATERIAL.
8. MINIMUM PITCH FOR SANITARY WASTE AND STORM DRAINAGE LINES SHALL BE 1/8 INCH PER FOOT.
9. RECORD DRAWINGS SHALL BE PREPARED BY CONTRACTOR AND SHALL INDICATE THE ACTUAL INSTALLED LOCATION OF ALL PIPING AND VALVES INCLUDING INVERT ELEVATION FOR UNDERSLAB PIPING.
10. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL GOVERNMENT SALES TAXES, FEES AND OTHER COST INCLUDING UTILITY CONNECTIONS COST.
11. IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES THAT MAY BE REQUIRED. CONTRACTOR SHALL MAKE ALL NECESSARY OFFSETS, FITTINGS AND ACCESSORIES AS REQUIRED WITH NO ADDITIONAL COST TO THE OWNER.

ABBREVIATIONS & SYMBOLS LIST

SYMBOL	ABBREVIATION	DESCRIPTION
	V	VENT PIPING
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	HWR	HOT WATER RETURN PIPING
	SAN/W/S	SANITARY/WASTE/SOIL PIPING BELOW SLAB
G	G	GAS PIPING
	EX CW	EXISTING COLD WATER PIPING
	EX HW	EXISTING HOT WATER PIPING
	EX HWR	EXISTING HOT WATER RETURN PIPING
EX G	EX G	EXISTING GAS PIPING
	EX	EXISTING
		BALL VALVE
	CV	CHECK VALVE
	CO	CLEANOUT
	H&CW	HOT & COLD WATER
	WC	WATER CLOSET
	LAV	LAVATORY
	JC	JANITOR SINK
	DF	DRINKING FOUNTAIN
	BV	BALANCING VALVE WITH PRESSURE PORTS
	CODP	CLEANOUT DECK PLATE
	VTR	VENT THRU ROOF
	RTU	ROOF TOP UNIT (SEE MECHANICAL DWG.)
		POINT OF NEW CONNECTION TO EXISTING WORK
	FD	FLOOR DRAIN
M	M	METER
BFP	BFP	BACK FLOW PREVENTER
	BP	BOOSTER PUMP
	WH	WATER HEATER
	SR	SHOWER
		MULTI-HEAD SHOWER COLUMN
	IM	ICE MACHINE

PLUMBING DRAWING LIST

PUMP SCHEDULE

TAG	DESIGNATION	No. REQUIRED	GPM	TDH , FEET	MANUFACTURER	MODEL NO.	H.P.	R.P.M.	VOLTS	PHASE	CYCLE	LOCATION
SP-1	ELEVATOR SUMP PUMP	1	50	36	STANCOR	SE-100	1	3,400	208	1	60	ELEVATOR SUMP PIT
BP-1	BOOSTER PUMP	1	81	104	TACO	1915	3	3,500	208	1	60	BOILER ROOM

1. PUMP SHALL BE MAINTENANCE FREE/SELF LUBRICATED TYPE WITH BRONZE FITTED CONSTRUCTION.
2. COORDINATE ALL POWER REQUIREMENTS, CONTROLS & CONTROL WIRING OF OIL-MINDER WITH THE ELECTRICAL CONTRACTOR.
3. PROVIDE STANCOR SE-100 PUMPS PER PUMP SCHEDULE OR APPROVED EQUAL.
4. PROVIDE OIL-MINDER.

ELECTRIC STORAGE WATER HEATER SCHEDULE

WATER HEATER NO.	LOCATION	MODEL	GALLON CAPACITY	KW INPUT	NUMBER OF ELEMENTS	ELEMENT WATTAGE	VOLTAGE	PHASE	HEIGHT (IN.)	DIA. (IN.)
WH-1	BOILER ROOM	AO SMITH DRE-80-15	80	15	3	5,000	208	3	60.25	25.5

PLUMBING FIXTURE CONNECTIONS SCHEDULE

FIXTURE TYPE	DESCRIPTION			SERVICE CONNECTION				REMARKS
	FIXTURE	MANUFACTURER	MODEL & NUMBER	S OR W	V	CW	HW	
WC	WATER CLOSET	AMERICAN STANDARD	AFWALL FLOWISE 1.28 GPF FLUSHOMETER TOILET SYSTEM	4"	2"	1"	-	WALL MOUNTED, TOP SPUD.
SR	SHOWER	AMERICAN STANDARD	COLONY PRO WATERSAVING PRESSURE BALANCE BATH/ SHOWER TRIM WITH DOUBLE CERAMIC PRESSURE BALANCE CARTRIDGE	2"	2"	3/4"	3/4"	
LAV	LAVATORY	AMERICAN STANDARD	MEZZO #9960.803	2"	2"	1/2"	1/2"	PROVIDE OFFSET GRID STRAINER. ALL EXPOSED TRIM SHALL BE COVERED SIMILAR TO TRUEBRO PIPE COVERING. (PROVIDE SINGLE FAUCET HOLE & BELOW DECK THERMOSTATIC MIXING VALVE MIX-135A). (SET THE METER SETTING TO 12 SECONDS PER CYCLE RESULTING IN A WATER CONSUMPTION RATE OF 0.1 GPC)
	FAUCET	AMERICAN STANDARD	5500.174 CENTERSET LAVATORY,0.35 GPM FLOW					
	DRAIN	----	1 1/4" OFFSET GRID DRAIN					
	P-TRAP	MCGUIRE	1 1/4"x 1 1/2" CAST BRASS					
SK	CLASSROOM SINK	ELKAY	EWS3120	2"	2"	1/2"	1/2"	FLOOR MOUNTED.
	FAUCET	ELKAY	LK1001CR, 1.5 GPM					
	P-TRAP	MCGUIRE	1 1/2"x2" CAST BRASS					
DF	BOTTLE FILLING STATION WITH DRINKING FOUNTAIN	ELKAY	ERFPM28K	1-1/2"	1-1/2"	1-1/2"	-	

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Job Number: 786
File:

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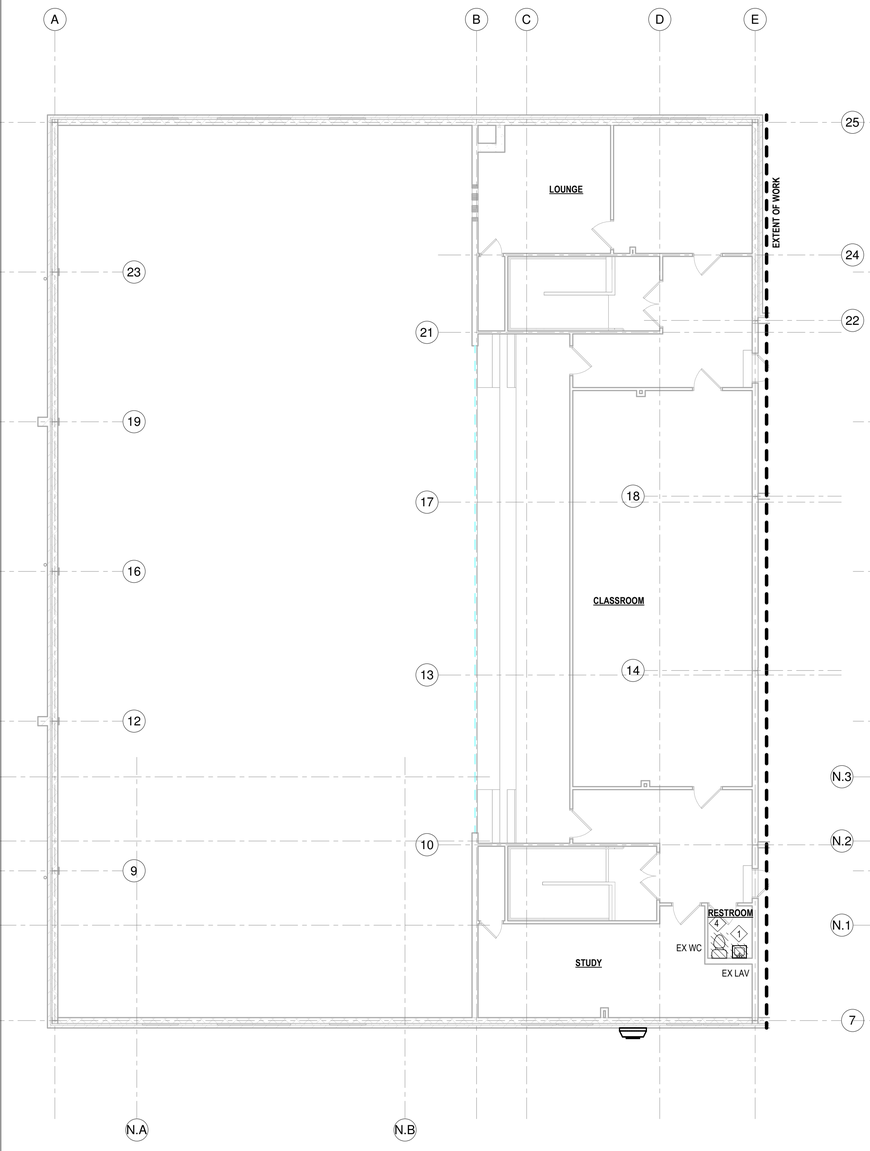
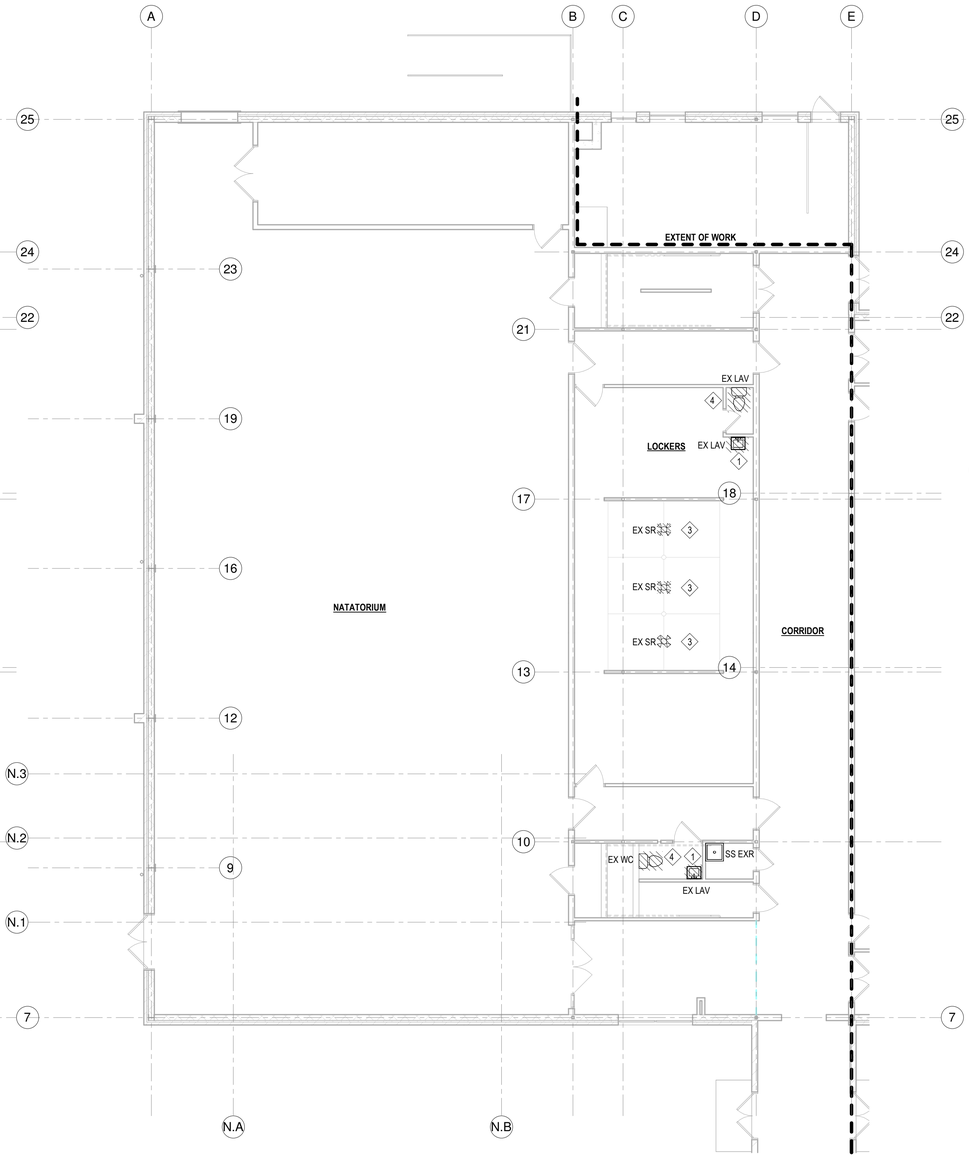
Drawing Set: PERMIT SET SUBMISSION

Drawing Title: PLUMBING GENERAL NOTES

Drawing Number: P0.1



3 2ND FLOOR DEMO PLUMBING PLAN
1/8" = 1'-0"



2 1ST FLOOR DEMO PLUMBING PLAN
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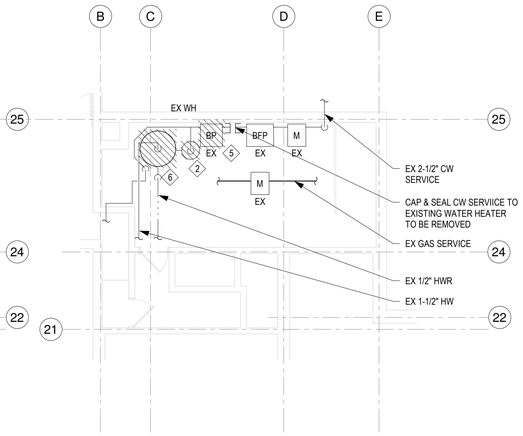

1 BOILER ROOM PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

LEGEND NOTES

1. REMOVE EXISTING SINK FIXTURE. CAP AND SEAL SANITARY LINE 2" BELOW SLAB. REMOVE HOT & COLD WATER SERVICES BACK TO MAIN.
2. REMOVE EXISTING WATER HEATER.
3. REMOVE EXISTING SHOWER COLUMN, INCLUDING HEADS AND DRAIN IN BASE. CAP AND SEAL SANITARY LINE 2" BELOW SLAB. REMOVE HOT & COLD WATER SERVICES BACK TO MAIN.
4. REMOVE EXISTING WATER CLOSET FIXTURE. CAP AND SEAL SANITARY LINE 2" BELOW SLAB. REMOVE HOT & COLD WATER SERVICES BACK TO MAIN.
5. REMOVE EXISTING BOOSTER PUMP.
6. REMOVE EXISTING WATER STORAGE TANK.

PLUMBING DEMOLITION NOTES:

1. EXISTING PLUMBING FIXTURES INDICATED TO BE REMOVED WITH RELATED TRIM, EQUIPMENT AND PIPING, CAP AND/OR PLUG ALL BRANCH PIPING FOR REUSE WHEN NEW PLUMBING FIXTURES ARE INSTALLED.

2. REMOVE PLUMBING FIXTURES TRIM, PIPING, ETC. AND DISCARD AS PER THE DIRECTION OF BUILDING MANAGEMENT. REMOVE SOIL, VENT AND WATER PIPING. CAP PIPING BACK TO ACTIVE MAIN, BRANCH OR RISER SOURCE.

3. THE SCOPE OF DEMOLITION WORK HAS BEEN INDICATED FOR THE CONTRACTOR'S GENERAL INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE FULL SCOPE, EXTENT, NATURE AND MANNER OF DEMOLITION REQUIRED.

4. ONLY WORKMEN SKILLED AND KNOWLEDGABLE IN THEIR RESPECTIVE TRADES SHALL BE EMPLOYED IN THE DEMOLITION.

5. CONTRACTORS SHALL TAKE SPECIAL CARE TO DEMOLISH ONLY THAT WORK WHICH IS REQUIRED TO BE DEMOLISHED AND NOT TO DISTURB ANY WORK WHICH IS TO REMAIN. IF IN THE COURSE OF THE DEMOLITION, THE CONTRACTOR DESTROYS OR DISTURBS ANY WORK WHICH IS TO REMAIN, THEN HE SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE SUCH WORK AS NECESSARY.

6. ANY COST OF PENETRATIONS IN EXISTING WORK REQUIRED TO ACCOMPLISH NEW WORK SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND SHALL BE DONE NEATLY AND WITHOUT DISTURBANCE OF ADJACENT WORK TO REMAIN.

7. ALL WORK TO BE DONE DURING THE HOURS DESIGNATED BY THE OWNER.

8. THE CONTRACTOR SHALL REMOVE AND DISCARD ALL DEMOLISHED ITEMS IN A MANNER APPROVED BY THE STATE OF NEW JERSEY AND ANY OTHER GOVERNMENT AGENCY.

9. DO NOT SCALE DRAWING.

10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS PRIOR TO SUBMITTING BIDS AND SHALL REPORT TO THE OWNERS REPRESENTATIVE ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK. ALL BUILDING DEPARTMENT PERMITS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORK.

11. PLUMBING CONTRACTOR SHALL VISIT THE PREMISES PRIOR TO SUBMITTING ITS PROPOSAL AND EXAMINE THE EXISTING AREAS BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL EXTEND THE EXECUTION OF THIS WORK.

12. REMOVALS SHALL BE PERFORMED IN PHASES. COORDINATE WITH CONSTRUCTION MANAGER.

13. REMOVE UNUSED WASTE PIPING BELOW THE FLOOR SERVING THE FIXTURES TO BE REMOVED. PATCH FLOOR PENETRATION AS REQUIRED.

14. ALL PLUMBING FIXTURES WHICH ARE TO BE REMOVED MUST HAVE WATER SUPPLY SHUT OFF PRIOR TO DISCONNECTING AND REMOVING TO PREVENT FLOODING THE SPACE IF PIPES ARE DAMAGED DURING DEMOLITION.

15. ALL SERVICE SHUT DOWNS SHALL BE BY BUILDING ENGINEERS. MINIMUM OF 48 HOURS NOTICE IS REQUIRED TO THE BUILDING ENGINEER'S OFFICE PRIOR TO SHUT DOWN.

16. BE DONE AFTER REGULAR WORKING HOURS. COORINDATE WITH BUILDING MANAGEMENT. COST OF OVERTIME IS TO BE INCLUDED IN THE CONTRACTOR'S PROPOSAL.

17. CONTRACTOR SHALL REPAIR DAMAGED OR REMOVED FIREPROOFING RELATED TO THIS WORK.

18. ALL SERVICE SHUT DOWNS SHALL BE BY BASE-BUILDING ENGINEERS. MINIMUM OF 48 HOURS NOTICE IS REQUIRED TO THE BUILDING OFFICE PRIOR TO SHUT DOWN.

19. THE CONTRACTOR SHALL REMOVE ALL PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS NECESSARY.

20. ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.

21. PORTIONS OF MAINS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENCT LOCATIONS, REROUTED, AND RECONNECTED.

22. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.

23. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE PLUMBING CONTRACTOR, AS DIRECTED BY THE OWNER.

24. ARRANGE TO WORK CONTINUOUSLY, INCLUDEING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.

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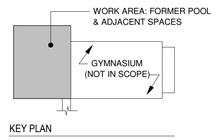

KEY PLAN

No.	Date	Revisions
0	02/05/24	100% CDs

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CW	CS	CS

Job Number: 786
File:

Date:
4.26.24

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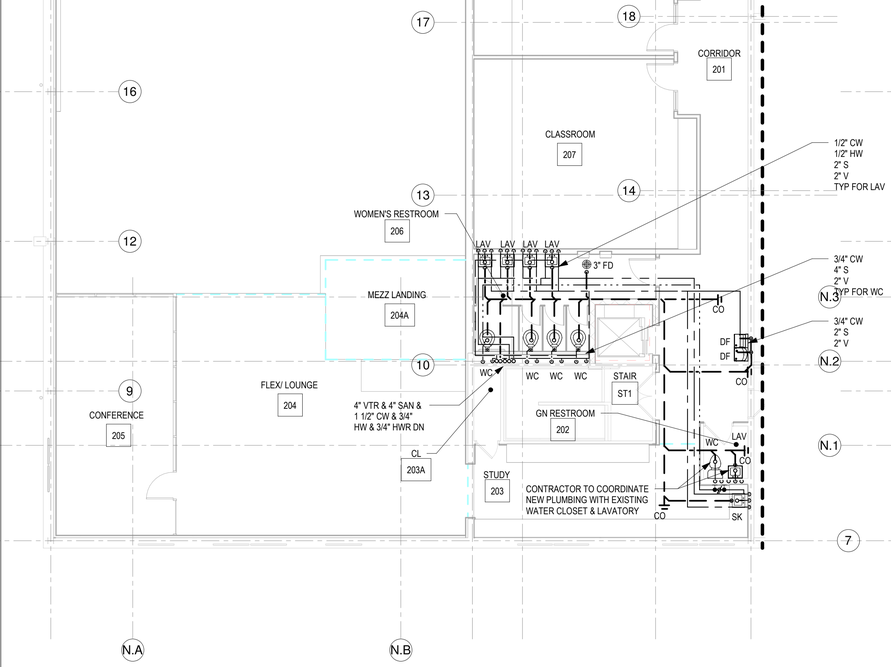
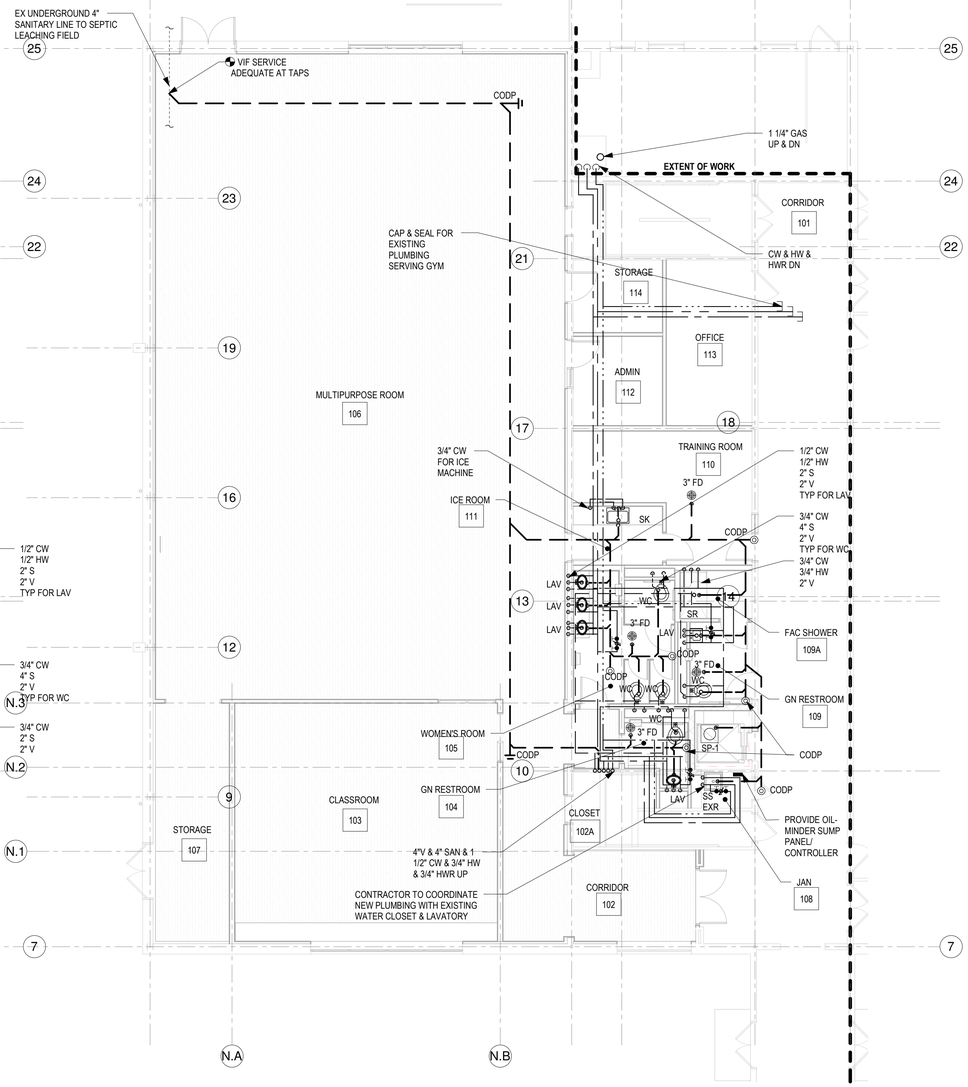
PERMIT SET SUBMISSION

Drawing Title:
PLUMBING DEMOLITION PLANS

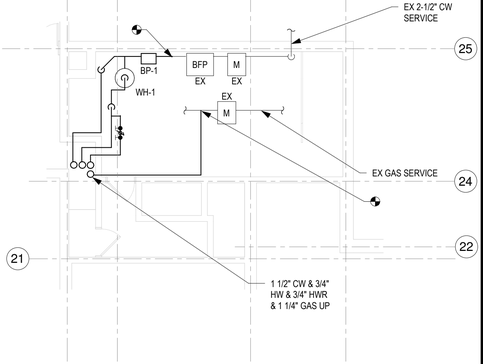
Drawing Number:
PD1.0



3 2ND FLOOR PLUMBING PLAN
1/8" = 1'-0"



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



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1/8" = 1'-0"

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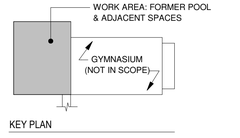

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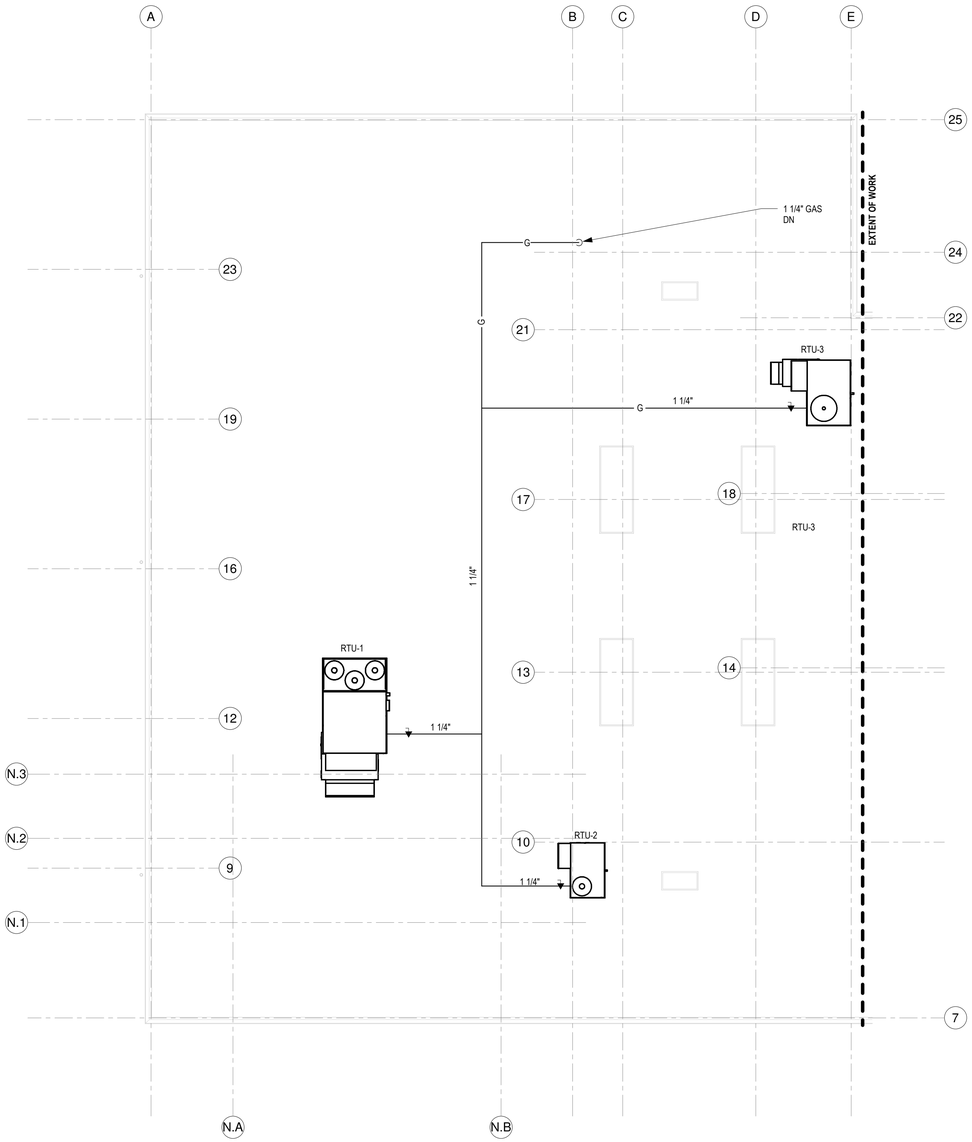

1 PLUMBING ROOF PLAN
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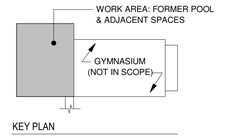

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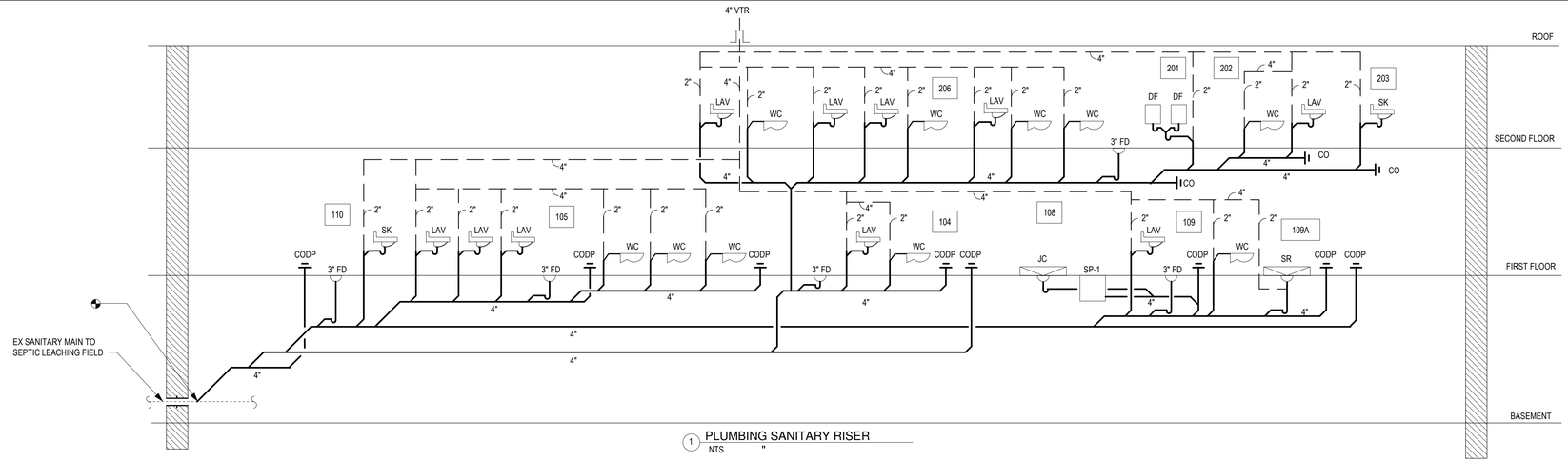
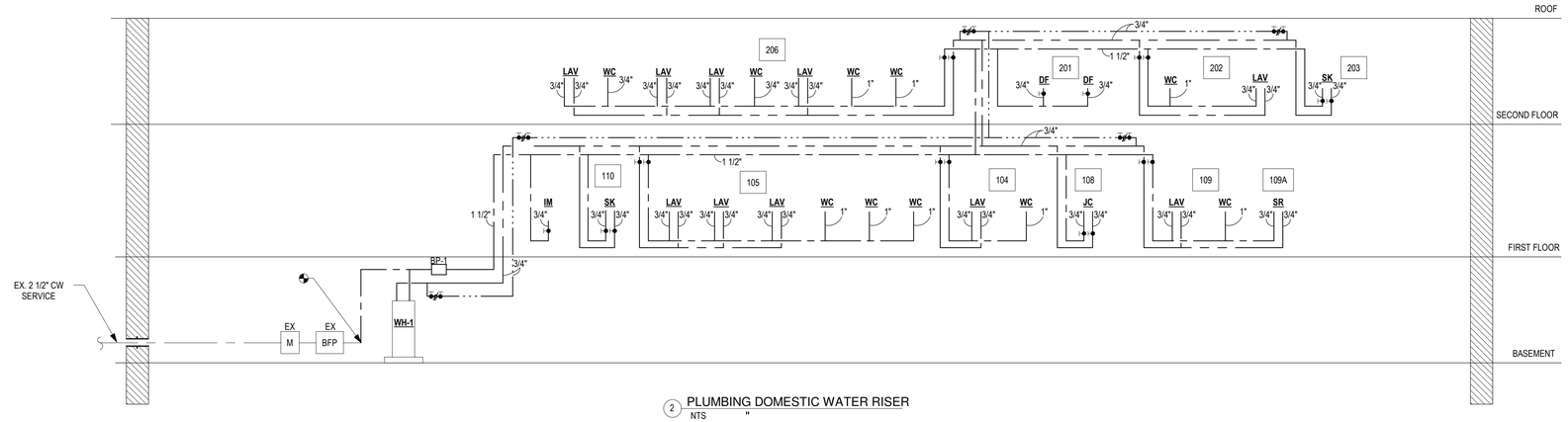


1 PLUMBING SANITARY RISER
NTS "



2 PLUMBING DOMESTIC WATER RISER
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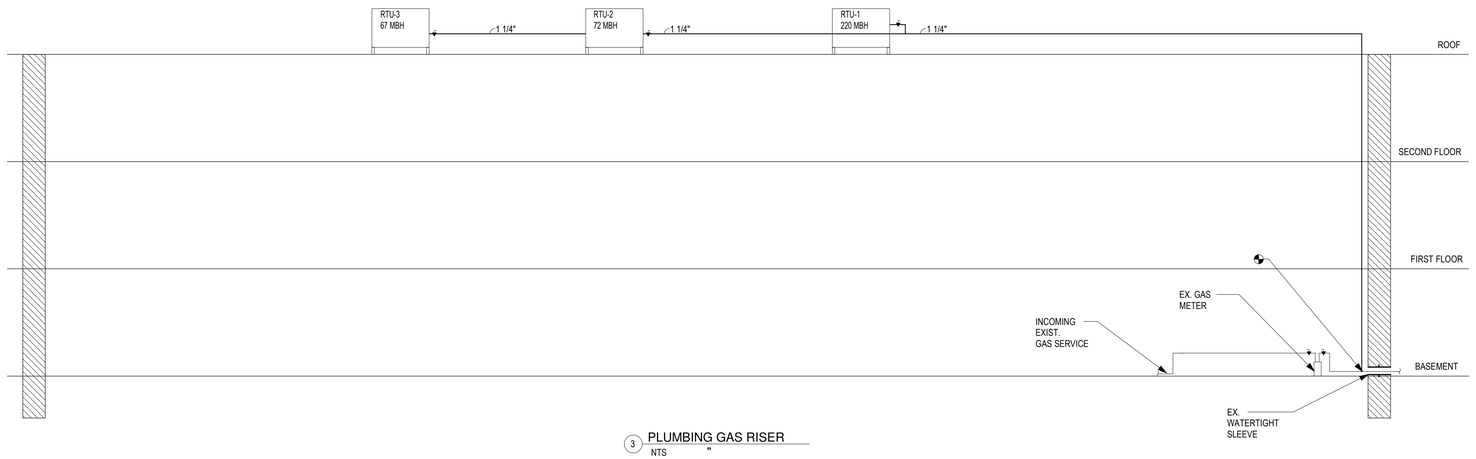

3 PLUMBING GAS RISER
NTS "

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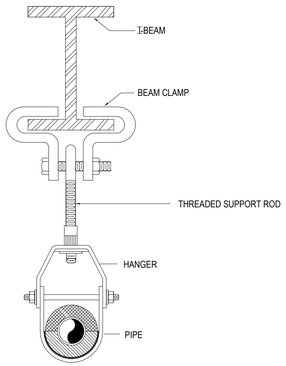
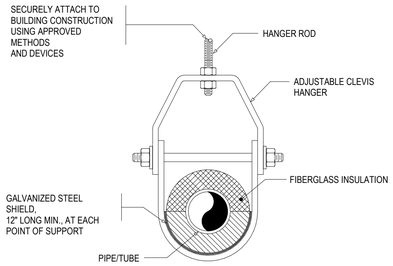


TOP BEAM CLAMP
NOT TO SCALE

ATTACHMENT DETAIL

NOT TO SCALE



ADJUSTABLE CLEVIS PIPE SUPPORT

FOR INSULATED PIPING/TUBING 1 1/2" AND LARGER

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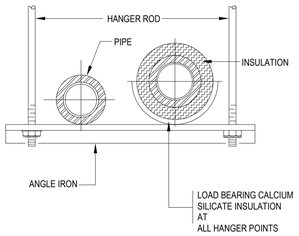
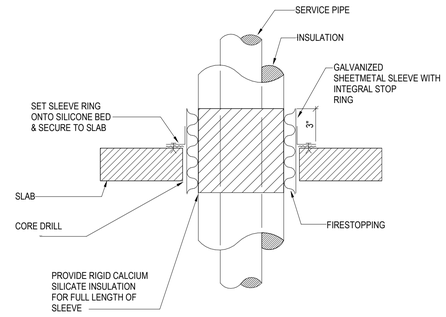


TRAPEZE HANGER

NOT TO SCALE

1 **PIPE HANGER DETAILS**

N.T.S.

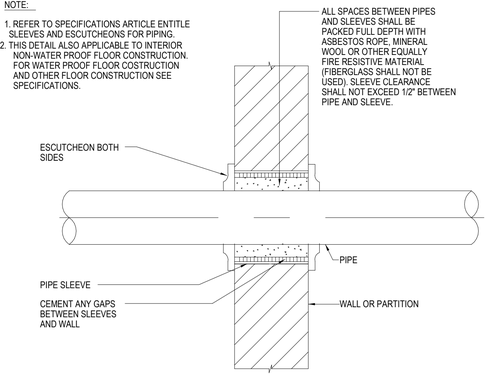


2 **PIPE PENETRATION THROUGH FLOOR DETAIL**

NO SCALE

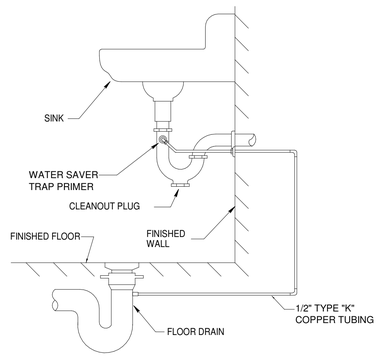
NOTE:

1. REFER TO SPECIFICATIONS ARTICLE ENTITLE SLEEVES AND ESCUTCHEONS FOR PIPING.
2. THIS DETAIL ALSO APPLICABLE TO INTERIOR NON-WATER PROOF FLOOR CONSTRUCTION. FOR WATER PROOF FLOOR COSTRUCTION AND OTHER FLOOR CONSTRUCTION SEE SPECIFICATIONS.



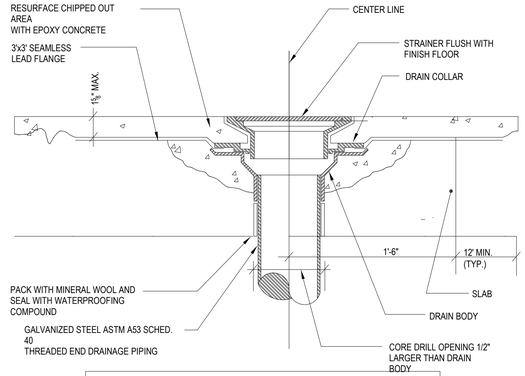
4 **DETAIL OF PIPING PIERCING MASONRY WALL**

N.T.S



6 **TRAP PRIMER DETAIL**

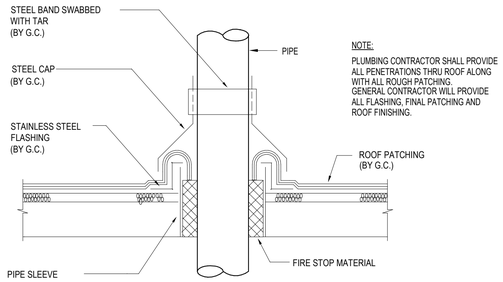
NOT TO SCALE



NOTE: 1. WATERPROOF EXISTING FLOOR OF ROOM WHERE FLOOR DRAIN IS TO BE LOCATED USING THOROSEAL SEALANTOR APPROVED EQUAL.

3 **TYPICAL FLOOR DRAIN INSTALLATION**

NOT TO SCALE



5 **PIPE PENETRATION THRU ROOF DETAIL**

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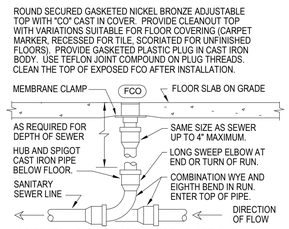
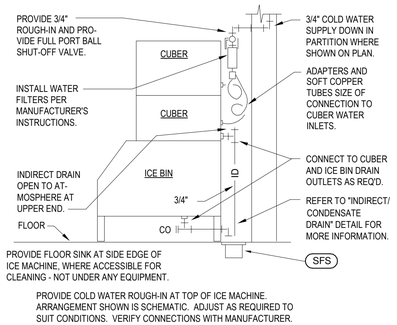
Drawing Title: PLUMBING DETAILS

Drawing Number: P3.0



FLOOR CLEANOUT

NOT TO SCALE



ICE MACHINE CONNECTIONS

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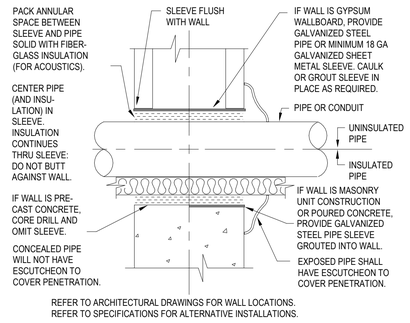

PENETRATION OF NON-FIREWALL

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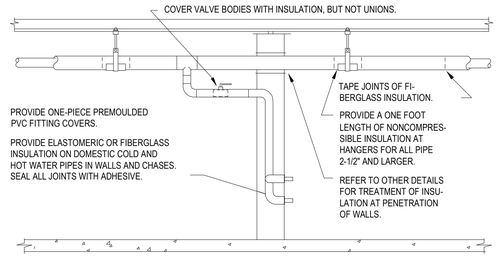

PIPE INSULATION

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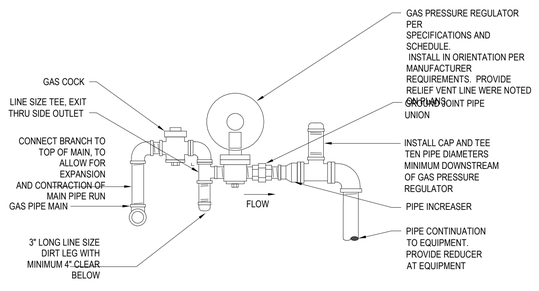
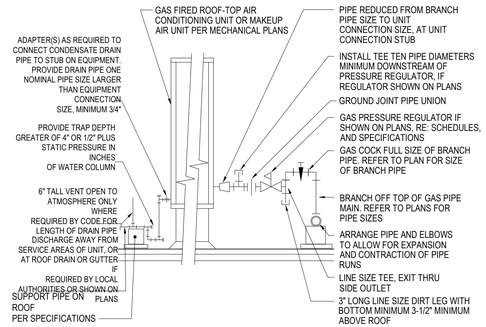


REFER TO PLANS FOR PIPE SIZE(S). ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PROVIDE CONNECTIONS SHOWN IN EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY CONNECTION
LOCATIONS BEFORE INSTALL PIPE RUNS. REFER TO SPECIFICATIONS FOR PIPE AND FITTING MATERIALS AND INSTALLATION. PROVIDE GAS COCK, UNION AND DIRT LEG SAME SIZE AS BRANCH PIPE.

GAS PRESSURE REGULATOR

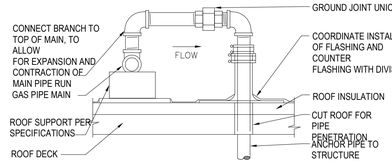
NO SCALE



ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PROVIDE CONNECTIONS SHOWN IN EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY CONNECTION LOCATIONS BEFORE INSTALLING PIPE RUNS. REFER TO SPECIFICATIONS FOR PIPE AND FITTING MATERIALS AND INSTALLATION. PROVIDE DIELECTRIC UNION IF CONNECTING DISSIMILAR METALS. FOR PIPE SIZE(S) REFER TO FLOOR PLANS, OR CODE REQUIREMENTS FOR
HVAC UNIT TONNAGE. PROVIDE GAS COCK, UNION AND DIRT LEG SAME SIZE AS BRANCH PIPE. SLOPE CONDENSATE PIPE AS MUCH AS POSSIBLE TOWARD DISCHARGE, 2% MINIMUM. PROVIDE CLEANOUTS IN ENDS AND TURNS OF PIPE PER LOCAL CODE REQUIREMENTS: ADAPTER WITH THREADED CLEANOUT PLUG. OMIT CONDENSATE DRAIN ON MAKEUP
AIR UNIT. PROVIDE MINIMUM 6" CLEARANCE TO ROOF UNDER PIPES.

CONNECTIONS TO ROOF - TOP UNIT

NO SCALE



REFER TO PLANS FOR PIPE SIZE(S) AND PENETRATION LOCATION(S). REFER TO SPECIFICATIONS FOR MORE INFORMATION. LOCATE PENETRATION MINIMUM 18" FROM
ADJACENT WALLS, VENTS THRU ROOM, EQUIPMENT CURBS, PARAPETS, ROOF DRAINS,
EXPANSION JOINTS, AND OTHER ROOF FEATURES.

GAS PIPE ROOF PENETRATION

NOT TO SCALE

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PLUMBING DETAILS

Drawing Number:
P3.1

FIRE ALARM SYSTEM INSTALLATION NOTES:

1. ALL EQUIPMENT AND DEVICES SHALL BE NEW AND SHALL MATCH THE EXISTING SYSTEM SILENT KNIGHT COMPONENTS, AND FUNCTIONALITY SHALL CONFORM TO ALL NJ FIRE CODES, NJ RULES, NEC, & NFPA.

2. FIELD VERIFY EXACT LOCATION OF ALL AFFECTED FIRE ALARM EQUIPMENT AND DEVICES. COORDINATE WITH LANDLORD/OWNER AND ARCHITECT FOR NEW LOCATIONS. EXACT LOCATION OF ALL FIRE ALARM EQUIPMENT AND DEVICES SHALL BE DETERMINED IN FIELD AND COORDINATED WITH ARCHITECT PRIOR TO ROUGH-IN.

3. NEW FIRE ALARM DEVICES AND WIRING SHALL MEET OR EXCEED SPECIFICATION REQUIREMENTS OF EXISTING COMPONENTS. COORDINATE WITH OWNER/LANDLORD, AND BASE BUILDING FIRE ALARM VENDOR/MAINTENANCE CONTRACTOR FOR EXACT REQUIREMENTS.

4. WIRE AND CONNECT NEW FIRE ALARM ANNUNCIATION DEVICES (HORNS AND STROBES) ON ALTERNATE CIRCUITS/LOOPS IN "A-B" ARRANGEMENT AND IN SUCH WAY THAT EACH CIRCUIT/LOOP WILL HAVE APPROXIMATELY 50% OF DEVICES PER AREA/FLOOR. COORDINATE WITH BASE BUILDING FIRE ALARM VENDOR/MAINTENANCE CONTRACTOR FOR PROPER LOOP/CIRCUITING CONNECTION, PROPER CONNECTIONS/INTERCEPTION AND PROVIDE RE-PROGRAMMING OF THE EXISTING SYSTEM AS REQUIRED.

5. NO SPLICES OF FIRE ALARM WIRING/CABLING IS ALLOWED. IF NECESSARY, USE TERMINAL STRIP BLOCKS WITH SCREW TYPE CONNECTIONS AT BOTH ENDS IN PAINTED FIRE ALARM RED ACCESSIBLE BOXES.

6. FIRE ALARM SYSTEM IS TEMPORAL 3. SEQUENCE OF OPERATION SHALL BE AS PER MATRIX ON THIS DRAWING AND SHALL MATCH EXISTING EQUIPMENT FUNCTIONALITY. COORDINATE WITH OWNER/LANDLORD AND BUILDING MAINTENANCE CONTRACTOR FOR PROPER SEQUENCE OF OPERATION.

7. COORDINATE WITH MECHANICAL CONTRACTOR AND FIRE ALARM VENDOR SILENT KNIGHT: FOR ALL NECESSARY RELAYS, MODULES, WIRING, INTERCONNECTIONS, TERMINATIONS, PROGRAMMING AND SEQUENCE OF OPERATION OF ALL FIRE ALARM EQUIPMENT AND DEVICES RELATED TO OPERATION OF MECHANICAL EQUIPMENT.

8. OBTAIN FROM AND COORDINATE WITH THE BUILDING FIRE ALARM VENDOR EXISTING AND MODIFIED POINT-TO-POINT WIRING DIAGRAMS.

9. CONDUCT ENTIRE ASSOCIATED SYSTEM TEST UPON COMPLETION OF INSTALLATION AND INCLUDE ALL NECESSARY FEES INTO BID PRICE TO PROVIDE FULLY COMMISSIONED SYSTEM. COORDINATE WITH LANDLORD/OWNER, ARCHITECT AND BUILDING FIRE ALARM MAINTENANCE CONTRACTOR FOR ALL RELATED EFFORTS AND SCHEDULES.

10. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FILING AND FILING FEES FOR THIS WORK, INCLUDING ANY REVISIONS AS A RESULT OF FIELD CONDITIONS.

11. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR ALL APPROPRIATE TESTING AND FIRE DEPARTMENT INSPECTIONS AND SIGN-OFF. AN ACCEPTANCE TEST OF THE ALARM SYSTEM SHALL BE CONDUCTED BY THE CONTRACTOR AND THE FIRE ALARM EQUIPMENT VENDOR AS DIRECTED BY THE OWNER AFTER THE FIRE ALARM EQUIPMENT VENDOR HAS PERFORMED A 100% TEST OF THE SYSTEM.

12. COORDINATE WITH LANDLORD/OWNER, ARCHITECT AND BUILDING FIRE ALARM MAINTENANCE CONTRACTOR FOR EXACT WIRING AND CONDUIT ROUTING AND RISER LOCATIONS. PROPERLY WATER AND FIRE SEAL ALL PENETRATIONS AS REQUIRED.

13. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF ALL AIR CONDITIONING UNIT DUCT SMOKE DETECTORS AND ASSOCIATED REMOTE INDICATORS.

14. AREA SMOKE DETECTORS SHALL NOT BE LOCATED IN DIRECT AIR STREAM FROM SUPPLY AIR OUTLETS. SMOKE DETECTORS SHALL BE LOCATED MINIMUM 3'-0" AWAY FROM SUPPLY AIR GRILLES.

15. ALL CIRCUIT POLARITIES SHALL BE STRONGLY OBSERVED.

16. NO CHANGES SHALL BE MADE TO THE SYSTEM WITHOUT FORMAL WRITTEN APPROVAL OF THE BUILDING FIRE ALARM VENDOR/MAINTENANCE CONTRACTOR.

17. ALL DETECTION, VISUAL, ANNUNCIATION AND INDICATION DEVICE CIRCUITS SHALL BE SUPERVISED. THEREFORE, NO PARALLEL BRANCHING OF NON-ADDRESSABLE CIRCUITS IS PERMISSIBLE.

18. ALL SHIELDS SHALL BE CONTINUOUS AND ISOLATED FROM GROUND.

19. ALL TEFLON WIRING DRAIN SHIELDS SHALL BE GROUNDED AT THE MAIN FIRE ALARM CONTROL PANEL. DRAIN SHIELDS IN OTHER PANELS (REMOTE ANNUNCIATION PANELS, AUXILIARY, JUNCTION BOXES) SHALL BE SPLICED, TIED TOGETHER AND TAPED FREE OF GROUND.

20. CONTRACTOR SHALL VERIFY CAPACITY OF ADDRESSABLE CIRCUITS FOR ALLOWABLE AMOUNT OF DEVICES PER CIRCUIT. DO NOT EXCEED 80% OF MAXIMUM CIRCUIT'S ALLOWABLE CAPACITY. IF NECESSARY, PROVIDE ADDITIONAL BOARDS OR COMPONENTS TO MAINTAIN THE 20% SPARE CAPACITY.

21. NO WORK SHALL BE STARTED UNTIL PLANS ARE APPROVED OR PERMITTED BY THE NJ DEPARTMENT OF BUILDINGS AND FIRE DEPARTMENT.

22. ALL APPROPRIATE AND REQUIRED FORMS SHALL BE FILED BY THE LICENSED ELECTRICAL CONTRACTOR WITH ALL AGENCIES HAVING JURISDICTIONS PRIOR TO ANY WORK.

23. NO CHANGES AND/OR MODIFICATIONS OF THE SYSTEM ARE ALLOWED WITHOUT THE ENGINEER'S WRITTEN APPROVAL. CONTRACTOR SHALL KEEP RECORDS OF ALL SUCH CHANGES. IF ANY SUBSTANTIAL CHANGES TO THE APPROVED PLANS WERE MADE PREVIOUS TO, OR DURING THE INSTALLATION, FIELD DRAWINGS SHALL BE UPDATED BY THE INSTALLER IN PREPARATION FOR AS-BUILT UPDATE. AS-BUILT PLANS SHALL BE PREPARED IN AUTOCAD FORMAT AND FILED WITH NJ AGENCIES FOR FINAL ACCEPTANCE.

24. ALL FIRE ALARM EQUIPMENT SHALL BE UL AND BSA LISTED, NJ APPROVED AND SHALL BE PURCHASED FROM SINGLE FIRE ALARM VENDOR AND SHALL BE COMPATIBLE WITH BASE BUILDING FIRE ALARM SYSTEM. STROBE LIGHT SHALL BE APPROVED TO MEET CURRENT AMERICANS WITH DISABILITIES ACT (A.D.A.) AND NJ REQUIREMENTS, STROBE LIGHTS SHALL FEATURE 1 HZ BLINK RATE IN THE ACTUAL INSTALLATION. EVERY 2-WIRE DETECTOR SHALL BE COMPATIBLE WITH CONTROL PANEL. ALL DEVICES SHALL BE ADDRESSABLE TYPE.

25. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NJ BUILDING CODE, LATEST NJ ENERGY CODE, OTHER NFPA STANDARDS AND ALL OTHER APPLICABLE CODE, STANDARDS, REGULATIONS AND COMPLY WITH ALL AGENCIES HAVING JURISDICTIONS.

26. ALL FIRE ALARM CONTROL PANELS SHALL BE MOUNTED WITH 3FT CLEARANCE FOR TESTING AND MAINTENANCE. TOP OF THE PANEL SHALL BE AT 5'-6".

27. PENETRATION OF FIRE-RATED WALLS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED.

28. NO CONDUITS OR WIRES SHALL ENTER THE TOP OF THE FIRE ALARM PANEL.

29. FAN AND HVAC UNITS SHALL NOT AUTOMATICALLY RESTART UPON THE SIMPLE RESETTING OF THE FIRE ALARM CONTROL PANEL. ENSURE THAT A SECOND ACTION IS REQUIRED.

WIRING:

30. ALL POWER AND GROUND WIRING TO BE THHN IN EMT. AS AN ALTERNATIVE, POWER WIRING MAY BE MINERAL INSULATED (MI CABLE).

31. ALL FIRE ALARM SIGNAL WIRING SHALL BE SOLID COPPER #16 AWG WHILE ALL WIRING FOR SOUNDING DEVICES AND STROBE LIGHTS SHALL BE SOLID COPPER #14 AWG FPLP. WIRING SHALL BE UL AND BSA LISTED, NJ APPROVED TEFLON JACKETED, PLENUM RATED, 150 C RATED AND LABELED "NJ CERTIFIED" THROUGHOUT. ALL WIRING SHALL BE CONNECTED BY APPROVED TERMINAL STRIPS OR U.L. LISTED "SCOTCH-LOCKS".

32. POWER CONDUCTORS SHALL NOT BE INSTALLED IN COMMON RACEWAYS WITH LOW VOLTAGE CONDUCTORS. CONDUCTORS FOR OTHER ELECTRICAL SYSTEMS SHALL NOT BE INSTALLED IN RACEWAYS CONTAINING FIRE ALARM CONDUCTORS.

33. ALL MATERIALS AND DEVICES USED IN FIRE ALARM SIGNAL SYSTEMS SHALL BE SECURELY FASTENED IN POSITION. PLASTIC ANCHORS ARE NOT ACCEPTABLE. ALL FIRE ALARM CABINETS PULL BOX COVERS, ETC. SHALL BE PAINTED FIRE ALARM RED.

35. WHERE "NJ CERTIFIED" WIRING IS ALLOWED TO BE RUN WITHOUT RACEWAY PROTECTION, CABLES SHALL NOT DEPEND ON CEILING MEDIA, PIPES, DUCTS CONDUITS OR EQUIPMENT. FOR SUPPORT WIRING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE WITH APPROVED HANGAR, J-HOOKS, CABLE TIES, STRAPS OR SIMILAR FITTINGS PLACED IN INTERVALS NOT EXCEEDING 5'-0" ON CENTERS AND WITHIN 12" OF EVERY ASSOCIATED CABINET, BOX OR FITTING.

36. ALL FIRE ALARM JUNCTION BOXES TO BE CLEARLY MARKED FOR EASY IDENTIFICATION, COVERS SHALL BE PAINTED "FIRE DEPARTMENT RED".

37. ALL CONDUIT, JUNCTION BOXES, MOUNTING BOXES AND FIRE ALARM PANELS SHALL BE SECURELY HUNG AND FASTENED WITH APPROPRIATE FITTINGS TO INSURE POSITIVE GROUNDING THROUGHOUT THE ENTIRE FIRE ALARM SYSTEM.

38. NO WIRING OTHER THAN THAT DIRECTLY ASSOCIATED WITH FIRE ALARM DETECTION, ALARM OR AUXILIARY FIRE PROTECTION FUNCTIONS SHALL BE PERMITTED IN FIRE ALARM CONDUITS.

39. WIRING SPLICES SHOULD BE AVOIDED TO THE EXTENT POSSIBLE, AND IF NEEDED THEY MUST BE MADE ONLY IN JUNCTION BOXES USING APPROVED TERMINAL STRIP CONNECTIONS.

40. TRANSPOSING OR CHANGING COLOR CODING OF WIRES IS NOT PERMITTED.

41. ALL CONDUCTORS IN CONDUIT CONTAINING MORE THAN ONE WIRE SHALL BE LABELED ON EACH END ACCORDINGLY.

42. CONDUCTORS IN CABINET SHALL BE CAREFULLY FORMED AND HARNESSED SO THAT EACH DROPS OFF DIRECTLY OPPOSITE TO ITS TERMINAL.

43. CABINET TERMINALS SHALL BE NUMBERED AND CODED

44. ALL WIRING SHALL BE CHECKED AND TESTED TO INSURE PROPER SUPERVISION (WHERE APPLICABLE), AND THAT THERE ARE NO GROUNDS, OPEN OR SHORTS.

45. WIRING REQUIREMENTS FOR SHIELDING CERTAIN CONDUCTORS FROM OTHERS OR ROUTING IN SEPARATE RACEWAYS SHALL BE AS RECOMMENDED BY THE MANUFACTURER'S DOCUMENTATION.

46. ALL LOW VOLTAGE "NJ CERTIFIED" WIRING MAY BE INSTALLED EXPOSED ABOVE CEILINGS OR CONCEALED IN WALLS ALL EXPOSED WIRING SHALL BE RUN IN APPROVED RACEWAY.

47. WIRING IN MECHANICAL ROOMS AND ELSEWHERE SUBJECT TO MECHANICAL DAMAGE, SHALL BE IN RIGID GALVANIZED STEEL CONDUIT.

48. FLEXIBLE METALLIC CONDUIT NOT EXCEEDING 36" IN LENGTH SHALL BE PERMITTED FOR FINAL CONNECTIONS TO INITIATING AND NOTIFICATION DEVICES.

49. SPLICES AND TERMINATIONS OF WIRES AND CABLES SHALL BE ONLY PERMITTED IN BOXES OR CABINETS SPECIFICALLY APPROVED FOR THE PURPOSE.

50. SPLICES AND TERMINATIONS OF WIRES SHALL UTILIZE MECHANICAL CONNECTIONS SPECIFICALLY APPROVED BY U.L. 486 A & C. TEMPERATURE RATING OF COMPLETED SPLICES SHALL EQUAL OR EXCEED THE TEMPERATURE RATING OF THE HIGHEST RATED CONDUCTOR.

51. WIRING FOR AUDIBLE AND VISUAL ALARM NOTIFICATION DEVICES SHALL BE ARRANGED SO THAT A LOSS OF A PORTION OF THE WIRING ON A FLOOR WILL NOT RENDER MORE THAN 60% OF THE DEVICE OF EACH TYPE INOPERATIVE (AT LEAST 2 CIRCUITS PER FLOOR FOR AUDIBLE DEVICES AND 2 CIRCUITS FOR STROBES.

52. BOTH AUDIBLE AND VISUAL NOTIFICATION APPLIANCES SHALL BE CONNECTED BY MEANS OF ALTERNATE CIRCUITS AS TO MAINTAIN AT LEAST PARTIAL AUDIBILITY/VISIBILITY THROUGHOUT THE ENTIRE FLOOR IN CASE OF SINGLE CIRCUIT FAILURE.

53. PROVIDE SIGNS AND IDENTIFICATION FOR FIRE ALARM SYSTEM AND COMPONENTS AS PER SPECIFICATIONS.

FIELD DEVICES:

54. ALL MANUAL PULL STATIONS SHALL BE RED AND MATCH EXISTING.

55. ALL MANUAL PULL STATIONS, SOUNDING AND VISUAL ALARM DEVICES, AND FIRE ALARM PANEL SHALL BE KEPT UNOBSTRUCTED AT ALL TIMES.

56. ALL MANUAL PULL STATIONS SHALL BE INSTALLED SO THAT CENTER OF THE HANDLE IS APPROXIMATELY 4'-0" ABOVE THE FINISHED FLOOR (A.F.F.).

57. THE CENTERLINE OF ALL AUDIBLE DEVICES SHALL BE LOCATED AT LEAST 80" A.F.F., EXCEPT THAT IN LOCATIONS WHERE CEILINGS PREVENT THE INSTALLATION AT HIS HEIGHT, THE CENTERLINE OF THE HORN SHALL BE LOCATED 6" BELOW THE CEILING. CENTERLINE OF ALL VISUAL DEVICES (STROBES) SHALL BE EXACTLY 80" ABOVE THE HIGHEST FLOOR LEVEL WITHIN THE SPACE OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, AS PER A.D.A. CEILING MOUNTED STROBES. WHERE ALLOWED SHALL NOT BE OBSTRUCTED BY OTHER DEVICES WITHIN 5' OF THE STROBE

58. WHERE SMOKE OR DUCT DETECTORS ARE NOT VISIBLE (CONCEALED), REMOTE INDICATING LIGHT SHALL BE PROVIDED AS REQUIRED.

59. PROTECT EXISTING FIRE ALARM TO BE REUSED. RELOCATED FIRE ALARM TO BE OPERATION AND PLACED ABOVE CEILING GRID DURING CONSTRUCTION AND PRIOR TO BEING RELOCATED TO PROPOSED LOCATION.

DEMOLITION

60. PRIOR TO BID, CONTRACTOR SHALL CONTACT AND ENGAGE THE BASE BUILDING FIRE ALARM MAINTENANCE CONTRACTOR AND OBTAIN PRICING FOR THE REQUIRED EQUIPMENT AND SERVICES WHICH MUST BE PROVIDED BY THE BASE BUILDING FIRE ALARM MAINTENANCE CONTRACTOR.

61. REPROGRAMMING OF FIRE COMMAND STATION AND REMOVAL OF CONNECTIONS AT THE FIRE COMMAND STATION OR DATA GATHERING PANELS SHALL BE PERFORMED BY THE BASE BUILDING'S FIRE ALARM MAINTENANCE CONTRACTOR AND INCLUDED IN THE ELECTRICAL CONTRACTOR'S BASE PRICE/BID.

62. TEST AND DOCUMENT EXISTING FIRE ALARM SYSTEM SERVING THE PROJECT AREA PRIOR TO START OF DEMOLITION. PROVIDE A REPORT OF SUCH TEST TO THE LANDLORD, TENANT, GENERAL CONTRACTOR, CM, ARCHITECT AND ENGINEER PRIOR TO PERFORMING ANY FORE ALARM WORK. NOTIFY AND COORDINATE WITH BUILDING PERSONNEL AS REQUIRED.

64. PROVIDE FIRE STOPPING FOR ALL RESULTING PENETRATIONS AS REQUIRED BY CODE.

65. CONTRACTOR SHALL INCLUDE IN HIS BASE PRICE ALL PREMIUM TIME AND OVERTIME REQUIRED FOR OFF HOURS OR WEEKEND WORK AS IT RELATES TO FIRE ALARM TESTING, INSPECTIONS AND APPROVAL.

DRAWING LIST	
FA0.1	FIRE ALARM GENERAL NOTES & SYMBOL LIST
FA1.0	FIRST & SECOND FLOOR FIRE ALARM PLANS
FA3.0	FIRE ALARM RISER AND MATRIX

FIRE ALARM SYMBOL LIST

S	PROGRAMMABLE SMOKE DETECTOR
S CO	DUAL PROGRAMMABLE SMOKE/CARBON MONOXIDE DETECTOR
H	WALL MOUNTED FIRE ALARM HORN/STROBE
S	WALL MOUNTED FIRE ALARM STROBE
FPA	OUTLYING EQUIPMENT CONTROL CABINET
F	FIRE ALARM PULL STATION
N	NEW
EX	EXISTING TO REMAIN
RL	EXISTING TO RELOCATE

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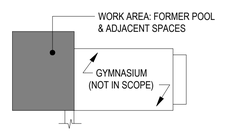

KEY PLAN

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0	02/05/2024	100% CDs

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Drawing Title:
FIRE ALARM GENERAL NOTES & SYMBOL LIST

Drawing Number:
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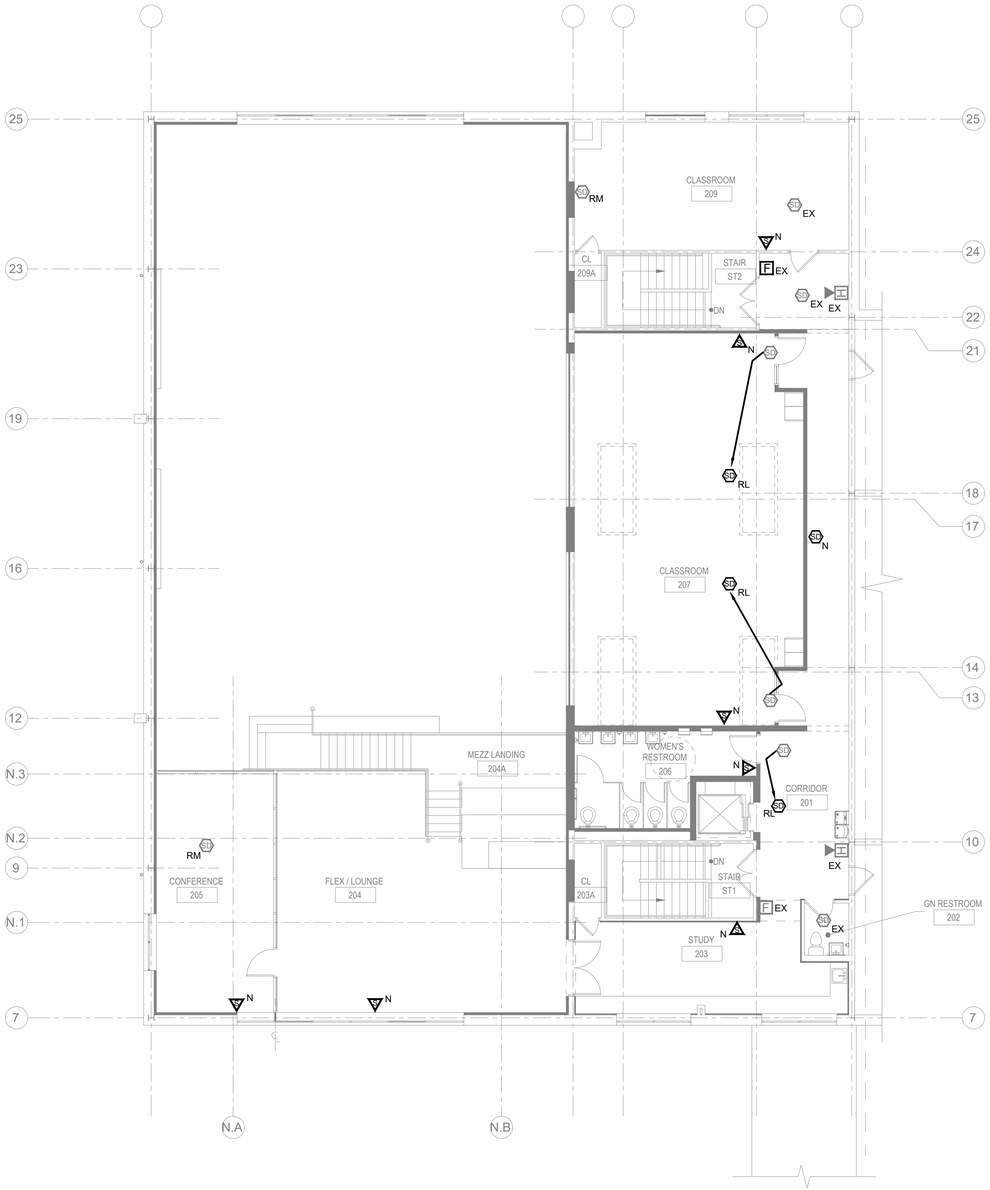
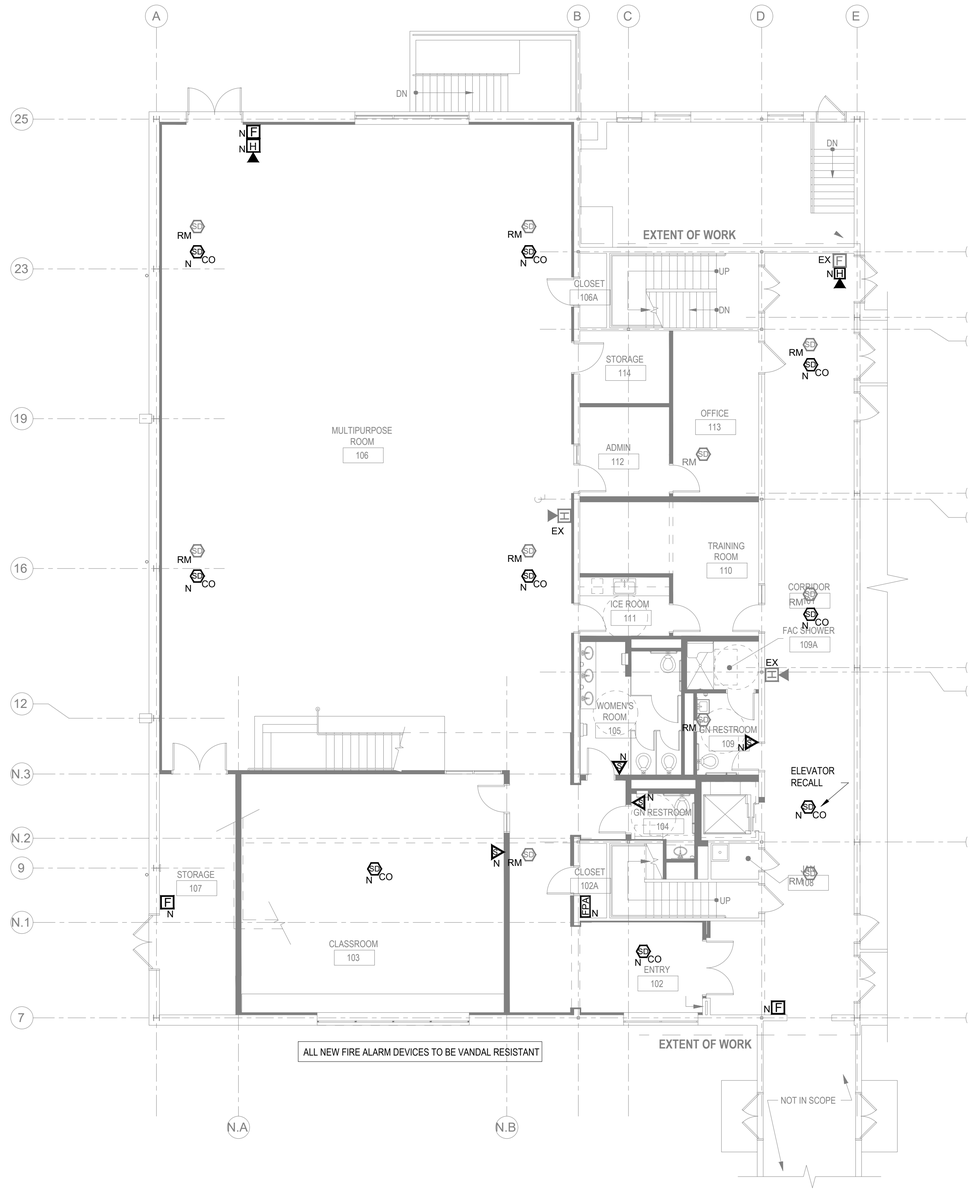


2 SECOND FLOOR FIRE ALARM PLAN
1/8" = 1'-0"



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

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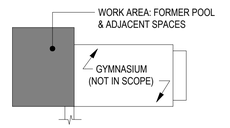

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FIRST & SECOND FLOOR
FIRE ALARM PLANS

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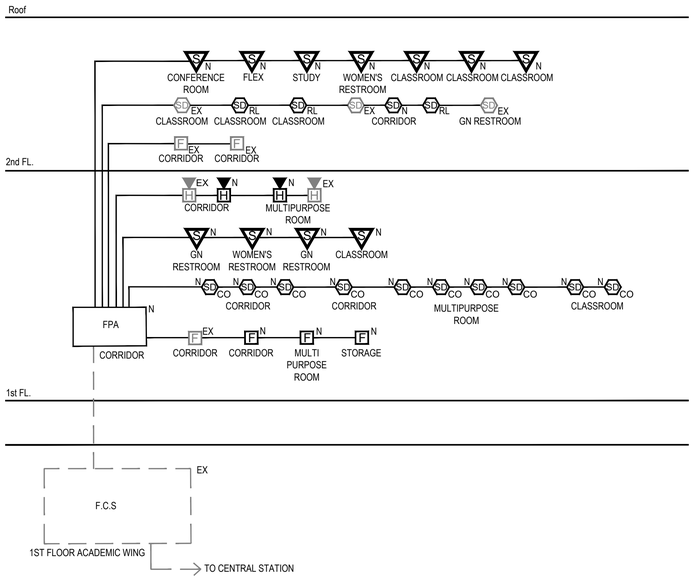

PARTIAL FIRE ALARM RISER DIAGRAM

VOICE EVACUATION FIRE ALARM SYSTEM

NOTE: ALL CIRCUITS SHALL BE CLASS E, LEVEL 1 SURVIVABILITY

NTS

PROCEDURE/ SYSTEM OUTPUT / INITIATING DEVICE/ SYSTEM INPUT	SYSTEM OUTPUTS																														
	CONTROL UNIT ANNUNCIATION						NOTIFICATION											REQUIRED FIRE SAFETY CONTROL								REQUIRED FIRE SAFETY CONTROL						
	ACTUATE COMMON ALARM SIGNAL INDICATOR (LED)	ACTUATE AUDIO ALARM SIGNAL (BUZZER/ CHIME)	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR (LED)	ACTUATE AUDIBLE SUPERVISORY SIGNAL (BUZZER/ CHIME)	ACTUATE COMMON TROUBLE SIGNAL INDICATOR (LED)	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	ACTIVATE TEGM/AUDIO DEVICES ON FIRE ALARM (ALL ALARM ZONES INQUIRY TONE ON ALL CLOSED DOORS)	DISPLAY/PRINT CHANGE OF STATUS	TRANSMIT AUTOMATIC ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT MANUAL SIGNAL TO SUPERVISING STATION	TRANSMIT INTER FLOOR SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT CO ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT PUMP RUNNING SIGNAL TO SUPERVISING STATION	TRANSMIT PUMP TROUBLE SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	ACTIVE A TEMPORAL 4 SIGNAL ON ACTIVATED CO SOUNDER BASES	SHUT DOWN CO PRODUCING EQUIPMENT	RELEASE MAGNETICALLY HELD DOORS	RECALL ELEVATORS TO GROUND FLOOR, OPEN ALL DOORS	REMOVE ELEVATOR POWER (SHUNT TRIP)	CLOSE SMOKE/FIRE DAMPERS IN RATED WALLS	UNLOCK EGRESS DOOR & DISCONNECT EGRESS TURNSTILES	SHUT DOWN AIR HANDLING EQUIPMENT	SHUT DOWN ASSOCIATED FAN	CLOSE ASSOCIATED SMOKE DAMPERS	PRESSURIZE STAIRWELLS	ESTABLISHES 3 WAY COMMUNICATION BETWEEN FIRE COMMAND STATION & REMOTE PHONES	NOT USED
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC
MANUAL FIRE ALARM PULL STATION	•	•					•	•		•									•										
AREA SMOKE OR HEAT DETECTORS	•	•					•	•	•										•			•	•	•	•	•	•		
ELEV. LOBBY, TOP SHAFT, MACHINE RM SMOKE	•	•					•	•	•										•	•		•	•		•	•			
FIRE ALARM AC FAILURE					•	•		•								•													
FIRE ALARM SYSTEM LOW BATTERY					•	•		•								•													
OPEN CIRCUIT					•	•		•								•													
GROUND FAULT					•	•		•								•													
NOTIFICATION APPLIANCE CIRCUIT SHORT					•	•		•								•													
SUB-SYSTEM ALARM	•	•					•	•											•			•	•						

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX
VOICE EVACUATION FIRE ALARM SYSTEM
NTS

FIRE ALARM RISER NOTES:

1. PRIOR TO BID COORDINATE SCOPE OF WORK REQUIRED WITHIN BUILDING SYSTEM (RE-PROGRAMMING, EXPANSION BOARDS, EXPANDER PANEL, POWER SUPPLY, ADDITIONAL AMPLIFIERS FOR FAS HORN ETC) WITH BUILDING FA VENDOR ALL COMPONENTS REQUIRED TO MAKE SYSTEM WORKABLE SHALL BE INCLUDED IN BID PRICE. VERIFY AVAILABILITY OF INPUT/OUTPUT POINTS AT EACH PANEL AND ROUTE WIRING RESPECTIVELY.
2. ALL STROBES, AND HORN/STROBES SHALL BE WALL MOUNTED FINISH BY ARCHITECT, APPROVED TO USE IN NEW JERSEY
3. FOR ALL MOUNTED FA DEVICES PROVIDE 3/4" CONDUIT TERMINATED IN NEAREST ACCESSIBLE CEILING.
4. COORDINATE WIRING DIAGRAM WITH FIRE ALARM VENDOR SHOP DRAWINGS, FOR STROBES MAXIMUM CURRENT PER ZONE SHALL NOT EXCEED 1.5A ZONES FOR STROBES AND STROBE/SPEAKERS AS PER FIRE ALARM VENDOR SHOP DRAWING (TYPICAL).
5. ALL FIRE ALARM WIRING SHALL BE TEFLON "RED" WIRING INSTALLED IN NON ACCESSIBLE CEILING, EXPOSED BELOW 8 FEET OR IN ROOM AREA (NO CEILING) ROUTE IN CONDUIT. ALL FIRE ALARM WIRING SHALL BE DONE IN ACCORDANCE WITH NEW JERSEY CODE.
6. THIS RISER DIAGRAM IS A SCHEMATIC REPRESENTATION OF THE FIRE ALARM SYSTEM. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF DEVICES.
7. A STANDARD, UL LISTED STROBE TYPICALLY HAS CANDELA RATINGS OF 15, 30, 75, 94, 95 AND 110 CD. EXTENDED COVERAGE STROBES TYPICALLY HAVE CANDELA RATINGS OF 177 AND 185 CD.

CELLAR FIRE ALARM DEVICE BREAKDOWN

DEVICE	COUNT
HORN STROBE	4
STROBE	11
PULLSTATION	6
HEAT DETECTOR	0
SMOKE DETECTOR	7
SMOKE W/CO DETECTOR	10
TOTAL	38

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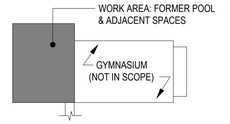

KEY PLAN

No.	Date	Revisions
0	02/05/2024	

Seal:

Drawn:	Checked:	Approved:
EB	RL	CS

Job Number: 786
File:

Date:
04.26.24

Drawing Set:
PERMIT SET SUBMISSION

Drawing Title:
FIRE ALARM RISER DIAGRAM AND MATRIX

Drawing Number:
FA3.0