BRYANT & STRATTON - RENOVATION

S.A. PROJECT # 17033.02
DATE: 11-06-2017

180 REDTAIL ROAD, ORCHARD PARK, NY

ARCHITECT:

SILVESTRI ARCHITECTS, P.C.

1321 MILLERSPORT HIGHWAY, SUITE 101 AMHERST, NY 14221

MECHANICAL/ELECTRICAL/PLUMBING:

KROMAC DESIGN

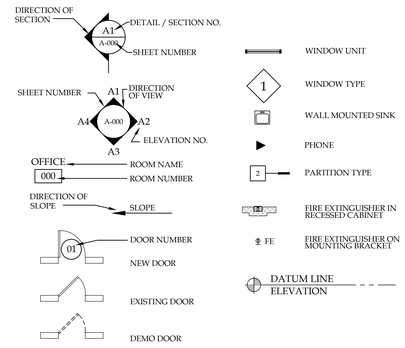
10225 MAIN ST., SUITE 10B, CLARENCE, NY 14031

SHEET INDEX

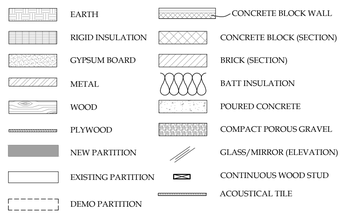
ABBREVIATIONS

A.F.F	ABOVE FINISH FLOOR
ACT.	ACOUSTICAL TILE
A.C.	AIR CONDITION
ALT.	ALTERNATE
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
AUTO	AUTOMATIC
BM.	BEAM
BRG	BEARING
B.M.	BENCH MARK
BLK.	BLOCK
BLKG	BLOCKING
BD	BOARD
BOT	BOTTOMS
BRK.	BRICK
B.E.J.	BRICK EXPANSION JOINT
B.C.	BRICK COURSE
BLDG	BUILDING
BUR	BUILT-UP ROOFING
CLG.	CEILING
CAB	CABINET
CPT	CARPET
C.W.	CASEWORK
C.B.	CATCH BASIN
CEM.	CEMENT
CT	CERAMIC TILE
CHBD	CHALK BOARD
CLR	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONT.	CONTINUOUS
CONTR	CONTRACTOR
CJ	CONTROL JOINT
C.G.	CORNER GUARD
CRS	COURSE
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
D.F.	DRINKING FOUNTAIN
DIFF.	DIFFUSER
EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
ELEC	ELECTRICAL
ELPNL	ELECTRIC PANEL
EL	ELEVATOR
ELEV.	ELEVATION
EQ	EQUAL
EX. F.	EXHAUST FAN
EXIST.	EXISTING
EXP. JT.	EXPANSION JOINT
FB	FACE BRICK
FIN	FINISH (ED)
F.A.	FIRE ALARM
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
F.P.	FIRE PROOFING
FL	FLOOR
F.D.	FLOOR DRAIN
FT	FOOT
F.W.C.	FACE WALL COVERING
FTG	FOOTING
FDTN	FOUNDATION
FUR	FURRING
GAL	GALLON
GA	GAGE
G.C.	GENERAL CONTRACTOR
GL	GLASS
G.B.	GRAB BAR
G.W.B.	GYPSUM WALL BOARD
GYP.	GYPSUM
HDW	HARDWARE
HD. WD.	HARDWOOD
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
HT	HEIGHT
HC	HOLLOW CORE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HB	HOSE BIB
H.W.	HOT WATER
INSUL	INSULATE (D) (ION)
INS. GL	INSULATED GLASS
INV	INVERT
JAN	JANITOR
JT	JOINT
KIT	KITCHEN
KO	KNOCK OUT
LAM	LAMINATED
LAV	LAVATORY
LH	LEFT HAND
LGT	LENGTH
LT	LIGHT
L.F.	LINEAR FEET
LTL	LINTEL
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
L.M.F.	LIGHT GAUGE METAL FRAMING
LVR	LOUVER
L.P.	LOW POINT
MACH	MACHINE
M.H.	MANHOLE
MFR	MANUFACTURE
MAS	MASONRY
M.O.	MASONRY OPENING
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MET	METAL
M.T.P.	METAL TOILET PARTITION
MIN	MINIMUM
MISC	MISCELLANEOUS
MULL	MULLION
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NOM	NOMINAL
NO.	NUMBER
O.C.	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OPPH	OPPOSITE HAND
OH	OVERHEAD
PMBC	PRENGINEERED METAL BUILDING CONTRACTOR
PNT	PAINT (ED)
PNL	PANEL
P.T.D.	PAPER TOWEL DISPENSER
P.T.R.	PAPER TOWEL RECEPTER
PVMT	PAVEMENT
PG. BD	PEG BOARD
PLAS.	PLASTER
P. LAM	PLASTIC LAMINATE
PL	PLATE
POL	POLISHED
PWD	PLYWOOD
PT	POINT
PSI	POUNDS PER SQ. INCH
PSF	POUNDS PER SQ. FOOT
P.P.	POWER PANEL
PRE. FAB.	PREFABRICATED
PREF	PREFINISHED
PROJ.	PROJECTION
PL	PROPERTY LINE
QT	QUARRY TILE
RAD	RADIUS
R.W.L.	RAIN WATER LEADER
RECPT.	RECEPTACLE, ELECTRIC
REC.	RECESS
REFR	REFRIGERATOR
REG	REGISTER
REINF.	REINFORCE (D) (ING)
REQ'D	REQUIRED
RES	RECESS (ED)
R.C.P.	REFLECTED CEILING PLAN
RET	RETURN
RA	RETURN AIR
RVS	REVERSE
REV	REVISION
RH	RIGHT HAND
ROW	RIGHT OF WAY
R	RISER
R.D.	ROOF DRAIN
RFG	ROOFING
RM	ROOM
RND	ROUND
SDL	SADDLE
STG	SEATING
SHTH	SHEATHING
SHT	SHEET
SHR	SHOWER
SIM	SIMILAR
SPKR	SPEAKER
SPEC	SPECIFICATIONS
SQ.	SQUARE
SST	STAINLESS STEEL
SP	STAND PIPE
STD	STANDARD
SD	STORM DRAIN
S.G.T.	STRUCTURAL GLAZED TILE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
SW	SWITCH
SWBD	SWITCH BOARD
SV	SHEET VINYL
T.B.	TACKBOARD
TEL	TELEPHONE
TEMP	TEMPERATURE
TEX	TEXTURE
THK	THICK (NESS)
THR	THRESHOLD
TP	TOILET PAPER HOLDER
T/O	TOP OF
TB	TOWEL BAR
TYP	TYPICAL
U.C.L.	UNDER CABINET LIGHT
U.C.	UNDERCUT
UR	URINAL
V.T.R.	VENT THRU ROOF
VENT	VENTILATOR
VERT	VERTICAL
VEST	VESTIBULE
V.C.T.	VINYL COMPOSITE TILE
V.I.F.	VERIFY IN FIELD
V.W.C.	VINYL WALL COVERING
WSCT	WAINSCOT
WS	WEATHER STRIP
WT	WEIGHT
WWF	WELDED WIRE FABRIC
W.C.D.F.	WHEELCHAIR DRINKING FOUNTAIN
W/	WITH
W/O	WITHOUT
WD	WOOD

DRAFTING SYMBOLS



MATERIAL SYMBOLS



BUILDING DATA

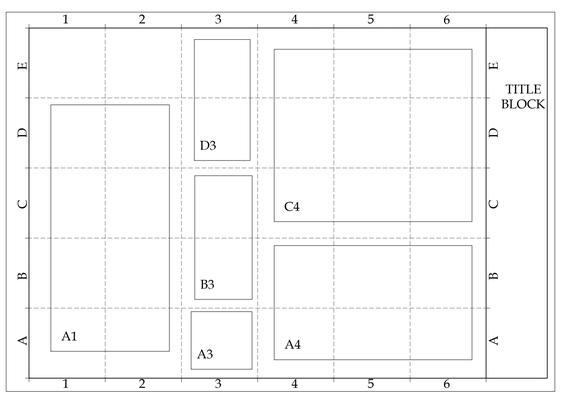
OCCUPANCY CLASSIFICATION: B

CONSTRUCTION TYPE: 2B

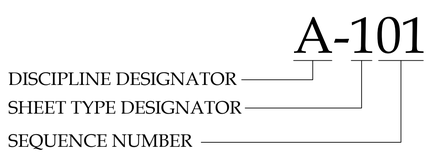
ISSUE

2017-11-06: BID/PERMIT SET

DRAWING AREA LOGIC



SHEET IDENTIFICATION LOGIC



DISCIPLINE DESIGNATOR

G	GENERAL
C	CIVIL
L	LANDSCAPE
S	STRUCTURAL
A	ARCHITECTURAL
F	FIRE PROTECTION
P	PLUMBING
M	MECHANICAL
E	ELECTRICAL

SHEET TYPE DESIGNATOR

0	GENERAL
1	PLANS
2	ELEVATIONS
3	SECTIONS
4	LARGE SCALE VIEWS
5	DETAILS
6	SCHEDULES & DIAGRAMS

BRYANT & STRATTON - RENOVATION

180 REDTAIL RD. ORCHARD PARK, NY

SA PROJECT TEAM: PRINCIPAL: P.Silvestri PROJ. ARCHITECT: _____ JOB CAPTAIN: S.Hunt INTERIORS: N.Catuzza

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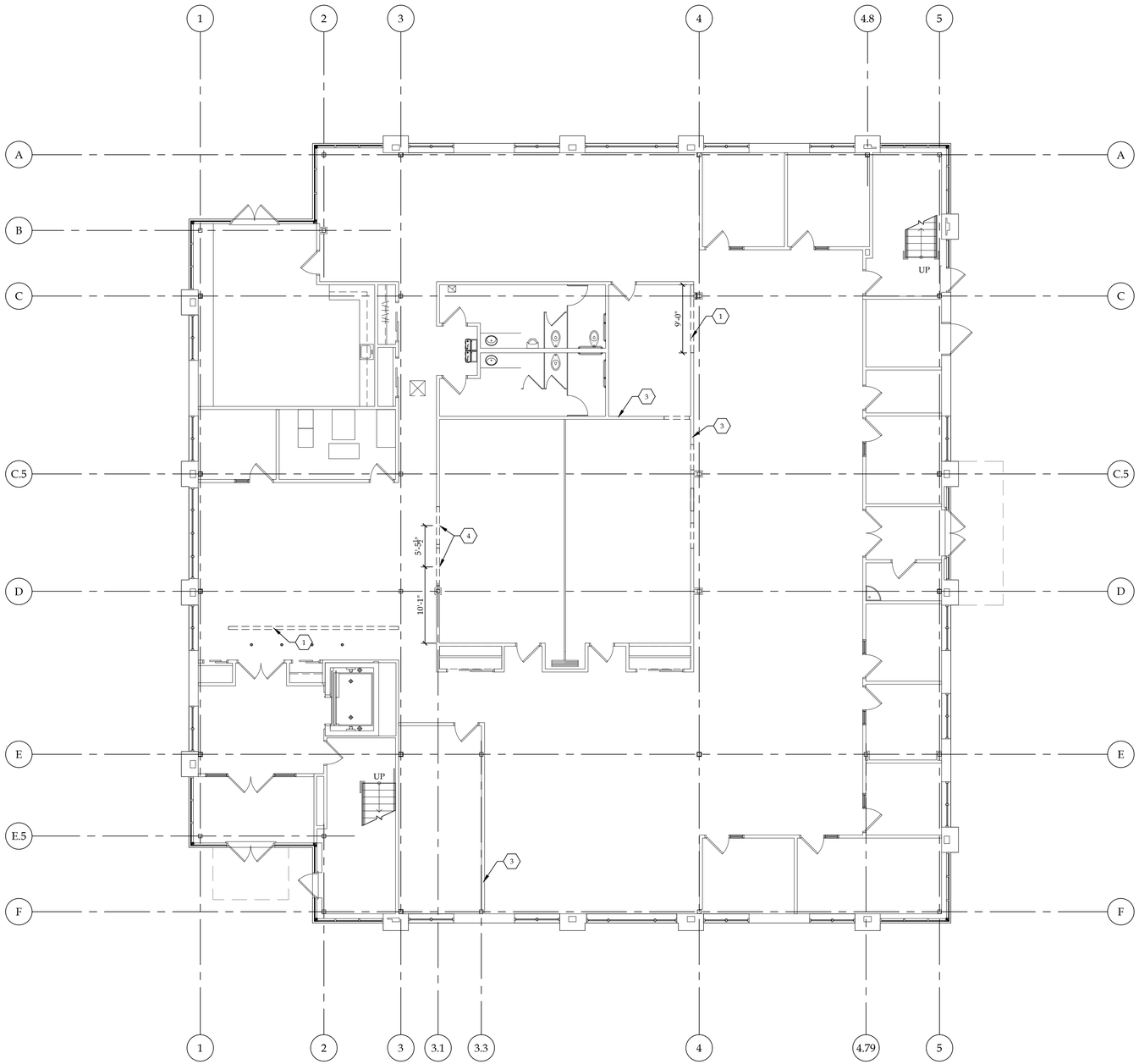

A1 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8"=1'-0"

KEYED NOTES

1. REMOVE EXIST. WALL; PATCH/REPAIR ADJACENT WALL AS REQ'D. PREPARE ANY ELECTRICAL OUTLETS, EMERGENCY LIGHTING, THERMOSTATS, SWITCHES, ETC.... FOR RELOCATION OR TERMINATION AS REQ'D. REMOVE EXISTING DOOR FRAMES AS REQUIRED FOR NEW WORK.
2. REMOVE EXIST. DOOR, FRAME AND HARDWARE IN ITS ENTIRETY, COORDINATE SALVAGE WITH OWNER.
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6. REMOVE EXIST. MILLWORK OR SHELVING.
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Bryant & Stratton
180 Redtail
Orchard Park NY

ISSUE:
2017-11-06: BID/PERMIT SET

SA PROJECT TEAM:
PROJ. ARCH. _____
JOB CAPT. S.Hunt
PRINCIPAL P.Silvestri
DRAFTER _____
INTERIORS N.Catuzza

SEAL:

TITLE:
FIRST FLOOR DEMOLITION PLAN

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SA JOB #: 17033.02
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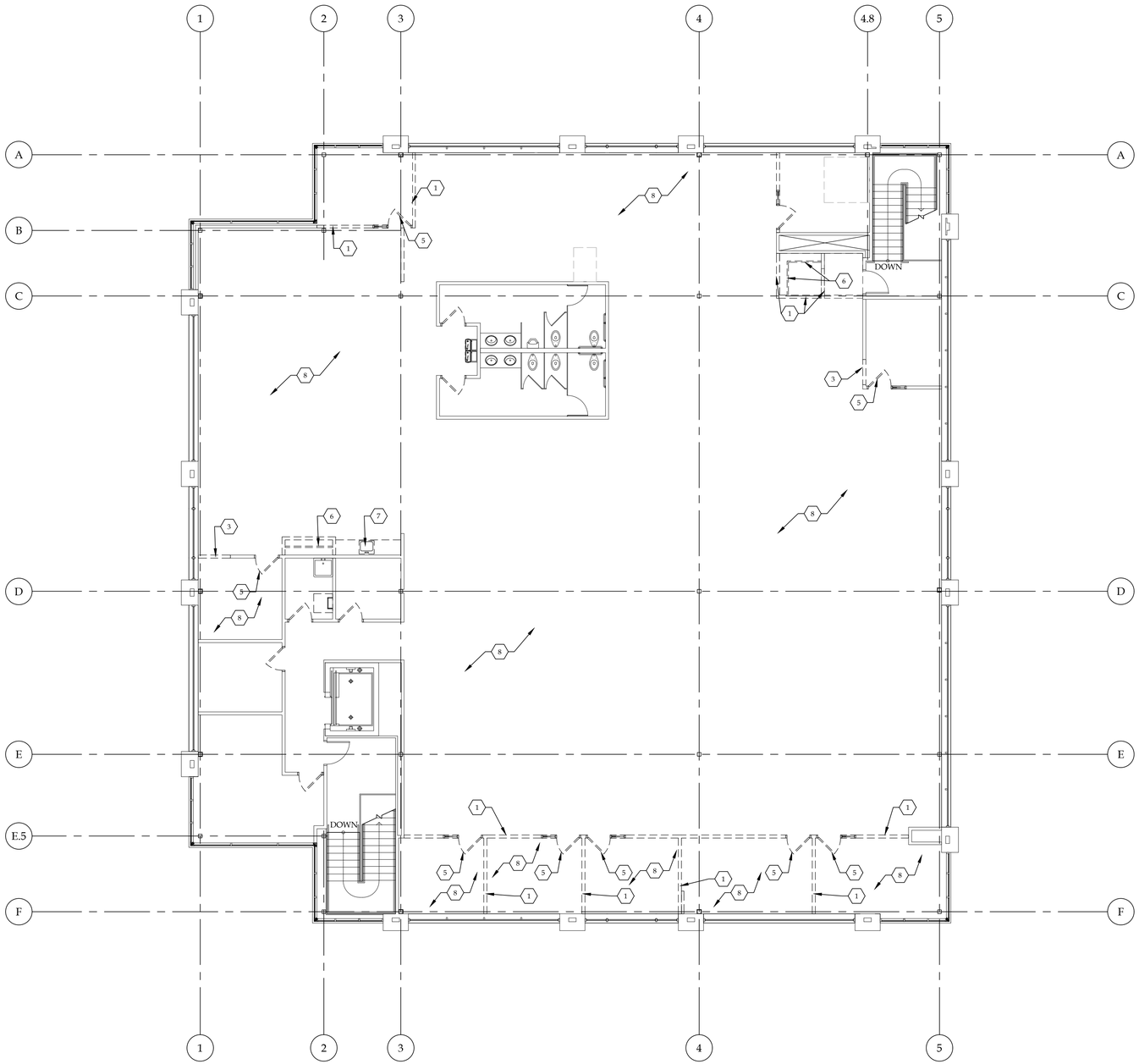

A1 SECOND FLOOR DEMOLITION PLAN
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JOB CAPT. S.Hunt
INTERIORS N.Catuzza

SEAL:

TITLE:
SECOND FLOOR DEMOLITION PLAN

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SA JOB #: 17033.02
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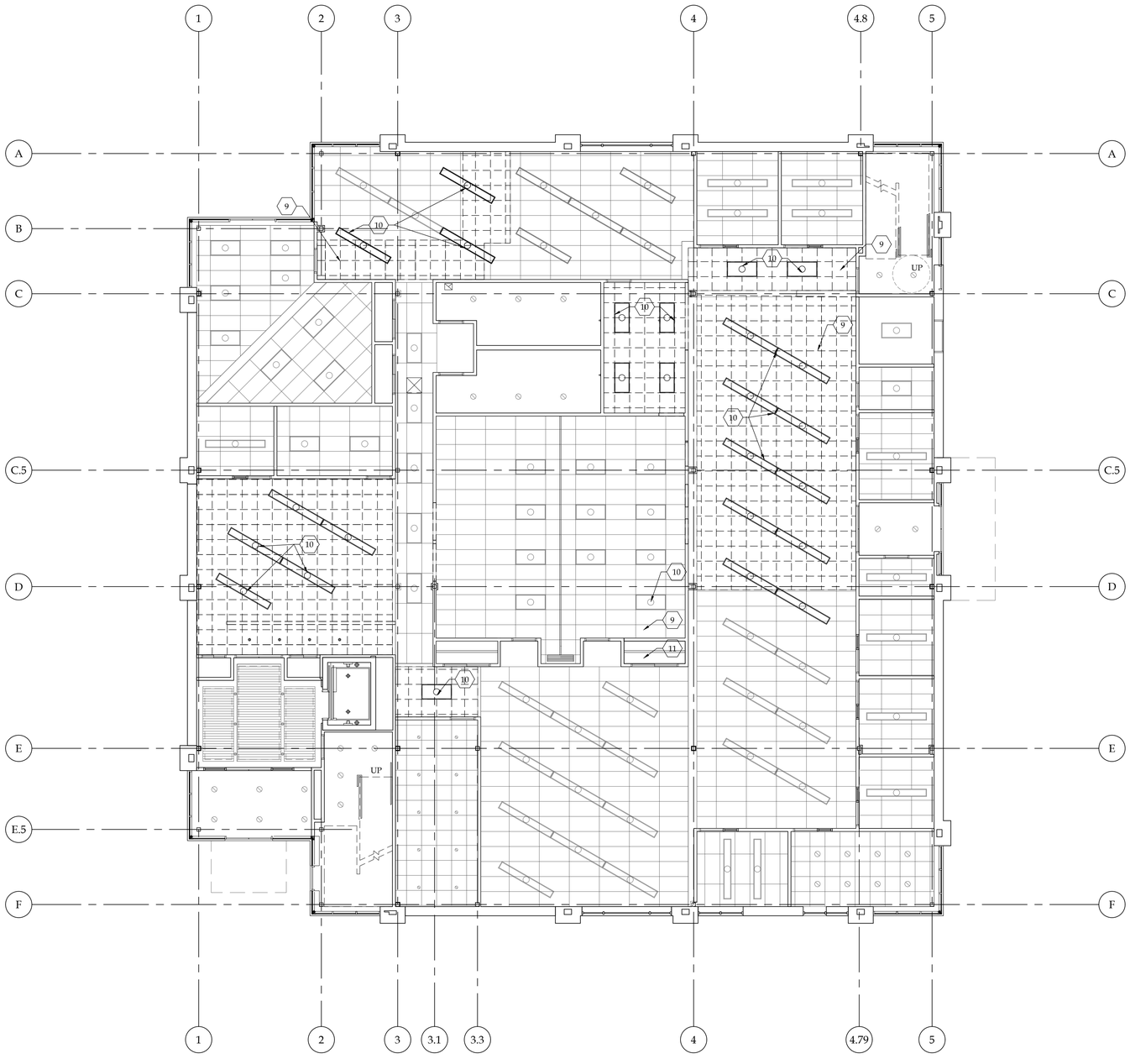
DRAWING #: AD-102



A1 FIRST FLOOR REFLECTED CEILING DEMOLITION PLAN
SCALE: 1/8"=1'-0"

N

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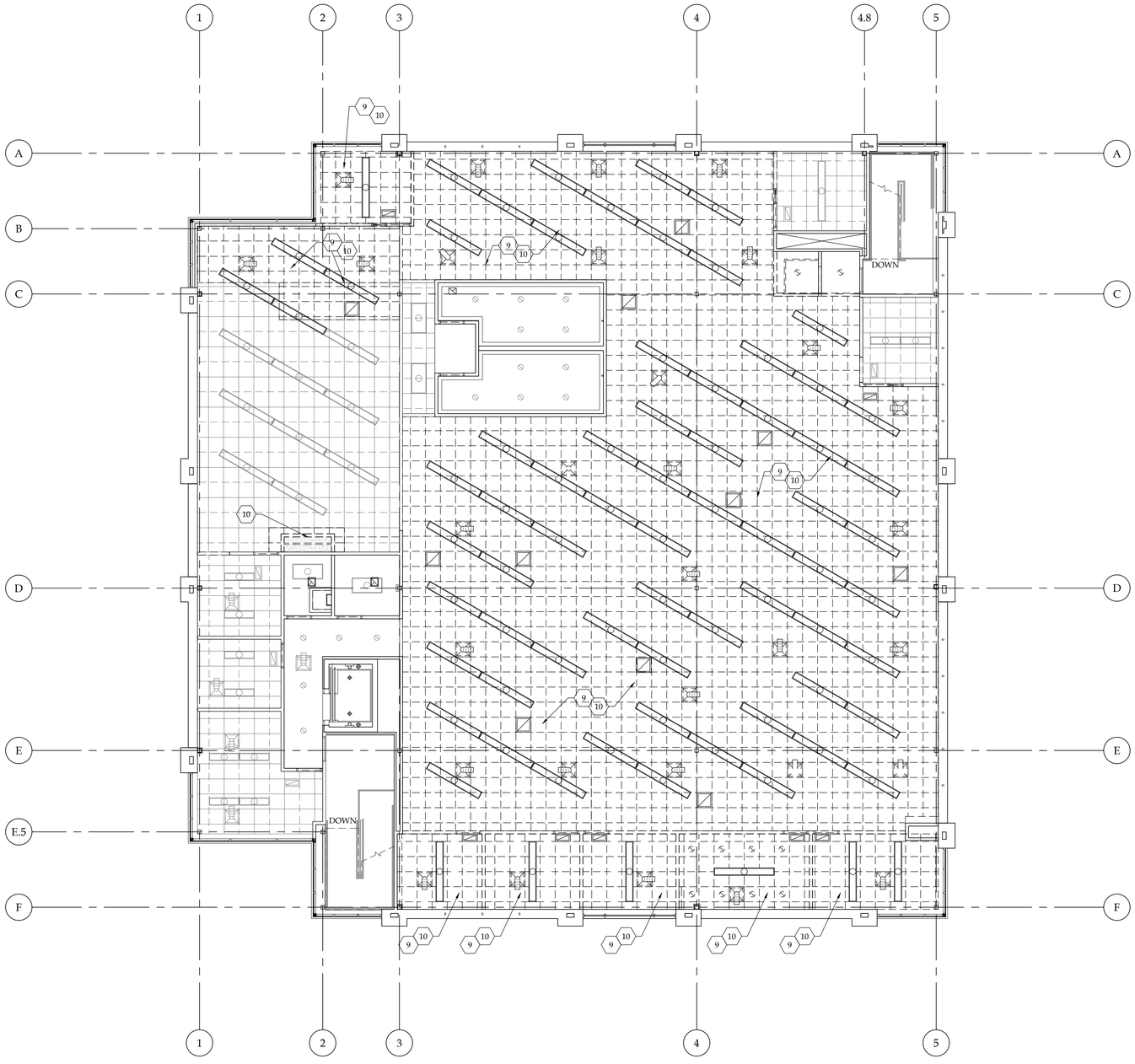

A1 SECOND FLOOR REFLECTED CEILING DEMOLITION PLAN
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N

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- PRIOR TO DEMOLITION CONTRACTOR TO VERIFY W/ ARCHITECT WHAT, IF ANY, ITEMS ARE TO BE SALVAGED.
- CONTRACTOR TO PROTECT ALL EXISTING FINISHES TO REMAIN DURING CONSTRUCTION AND REPLACE DAMAGED FINISHES AS REQUIRED.
- CONTRACTOR TO VERIFY IN FIELD ANY ADDITIONAL DEMOLITION REQUIRED TO PREPARE AREA FOR NEW CONSTRUCTION PER PLANS.
- CONTRACTOR TO CONTACT ARCHITECT TO INSPECT POST-DEMO CONDITIONS PRIOR TO THE START OF NEW CONSTRUCTION.
- PREP ALL WALLS AND FRAMES FOR PAINT WHERE SPECIFIED.
- CONTRACTOR TO VERIFY THE CONDITION OF ALL EXISTING DOORS & FRAMES WITH ARCHITECT IN ORDER FOR RE-USE. CONTRACTOR TO ADJUST DOOR OPERATIONS AS REQUIRED.
- CONTRACTOR TO VERIFY THE CONDITION OF ALL EXISTING DOOR HARDWARE WITH ARCHITECT IN ORDER FOR RE-USE. CONTRACTOR TO ADJUST HARDWARE OPERATIONS AS REQUIRED.
- CONTRACTOR TO REMOVE ALL BUT NOT LIMITED TO ALL EXISTING PLAQUES, SIGNAGE, WALL ART AND REPATCH WALL AND PREP FOR PAINTING AS REQUIRED.

Bryant & Stratton
180 Redtail
Orchard Park NY

ISSUE:
2017-11-06: BID/PERMIT SET

SA PROJECT TEAM:
PRINCIPAL P.Silvestri
PROJ. ARCH. _____
DRAFTER _____
JOB CAPT. S.Hunt
INTERIORS N.Catuzza

SEAL:

TITLE:
SECOND FLOOR REFLECTED CEILING DEMOLITION PLAN

SILVESTRI
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SA JOB #: 17033.02
DATE: 11-06-2017

DRAWING #: AD-104

GENERAL NOTES

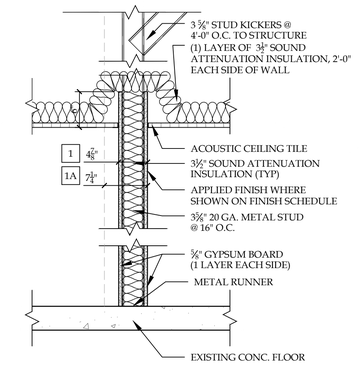
- CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE NEW YORK STATE BUILDING CODES, OSHA STANDARDS AND FIRE SAFETY CODE / RELEVANT SECTIONS OF THE N.F.P.A. & ANY LOCAL CODES BEING MORE RESTRICTIVE THAN THE MINIMUMS LISTED.
- CONSTRUCTION MEANS, METHODS, TECHNIQUES AND CRAFTSMANSHIP ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. G.C. SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. CONTACT ARCHITECT IF MAJOR DISCREPANCIES OCCUR BETWEEN DRAWINGS AND EXISTING CONDITIONS.
- THE CONTRACTOR IS REQUIRED TO INSPECT THE PROJECT SITE IN ORDER TO DETERMINE THE EXTENT OF THE REQUIRED WORK. THIS INSPECTION SHALL BE COMPLETED PRIOR TO THE SUBMISSION OF ANY PROPOSAL TO COMPLETE THIS PROJECT. INSPECTION TIMES SHALL BE COORDINATED WITH THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL INFORMATION ON THE DRAWINGS.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF THE RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF THE WORK. THESE DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTIONS AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATION TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL BID & PERFORM THE WORK IN ACCORDANCE WITH THE FIELD CONDITIONS.
- ALL DIMENSIONS SHOWN FOR EXISTING STRUCTURES ARE BASED ON RECORD DRAWINGS AND FIELD MEASUREMENTS. THE CONTRACTOR IS ADVISED THAT SAID DRAWINGS MAY NOT ACCURATELY REFLECT AS BUILT CONDITIONS. ACCURATE FIELD MEASUREMENTS SHOULD BE MADE PRIOR TO ORDERING ANY PREFABRICATED MATERIALS. DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND SHALL BE REFLECTED ON THE CONTRACTORS SHOP DRAWINGS.
- THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS FOR THIS PROJECT WILL BE COMPLETED TO THE SCOPE OF THE PROJECT IN COMPLIANCE WITH THE OWNER AND DESIGN TEAM. ANY CHANGES TO THESE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS WILL ONLY BE DONE BY A CHANGE ORDER THAT IS APPROVED BY THE OWNER'S REPRESENTATIVE.
- CONSIDERATION WILL NOT BE GRANTED FOR ANY ALLEGED MISUNDERSTANDINGS AS TO THE AMOUNT AND / OR SCOPE OF WORK TO BE PERFORMED. TENDER OF PROPOSAL SHALL CONVEY FULL AGREEMENT TO THE ITEMS, AND CONDITIONS INDICATED IN THE CONSTRUCTION DOCUMENTS. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONSTRUCTION DOCUMENTS OR BE IN DOUBT AS TO THE INTENT THEREOF, THE CONTRACTOR SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO SUBMITTING A PROPOSAL FOR THE WORK.
- ALL OWNER SUPPLIED ITEMS WILL BE COORDINATED WITHIN THE GENERAL CONTRACTOR'S CONSTRUCTION SCHEDULES PRIOR TO COMMENCEMENT OF ANY WORK.
- THE CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE WITH THE OWNER FOR ALL BUILDING AND CONSTRUCTION SIGNAGE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF HIS WORK AND SCHEDULE WITH WORK BEING PERFORMED BY OTHERS AND THE USER/OWNER OF THE BUILDING.
- ALL DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALE. DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE TO FACE OF CONCRETE OR MASONRY, CENTERLINE OF COLUMNS AND BEAMS, AND FINISH TO FINISH, UNLESS OTHERWISE NOTED.
- THE STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING WORK. ANY DISCREPANCIES BETWEEN THE ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO PROCEEDING WITH SAID WORK.
- DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING SOME, OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
- CONTRACTOR SHALL VERIFY AND ESTABLISH THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WITHIN THE WORK AREA, AND SHALL COORDINATE WITH THE OWNER AND THE UTILITY COMPANIES PRIOR TO THE START OF THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING REQUIRED TO ADEQUATELY PROTECT PERSONAL AND ADJACENT PROPERTY AND TO INSURE SAFETY OF THE STRUCTURE THROUGHOUT THE CONSTRUCTION PERIOD.
- ALL CEILING HEIGHTS AS SHOWN ON DETAILS OR PLANS OR NOTES ARE FROM TOP OF CONCRETE DECK TO FINISH CEILING. USE OF THE TERM ABOVE FINISH FLOOR (A.F.F.) MEANS MEASURED FROM THE TOP OF CONCRETE DECK. CONTRACTOR SHALL ALLOW FOR AND COORDINATE WORK WITH FLOOR FINISH MATERIAL AND INSTALLATION METHOD.
- PROVIDE INDEPENDENT SUSPENSION FOR ALL LIGHT FIXTURES. SUSPENSION FOR CEILING AND LIGHT FIXTURES SHALL BE INDEPENDENT OF SUSPENSION FOR DUCT WORK.
- ALL EQUIPMENT AND MATERIALS INSTALLED IN THIS JOB SHALL BE NEW AND FREE OF ANY DEFECTS UNLESS OTHERWISE NOTED.
- CONTRACTORS SHALL RECORD ALL DEVIATIONS FROM THE DESIGN DOCUMENTS IN THE DRAWINGS, AND PROVIDE A COPY TO THE ARCHITECT UPON THE COMPLETION OF WORK.
- PROVIDE APPROVED SEPARATION BY MEANS OF COATINGS, GASKETS, OR OTHER EFFECTIVE MEANS TO PREVENT GALVANIC CORROSION BETWEEN ALL DISSIMILAR METALS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS OF THIS PROJECT TO ADJACENT PROPERTY, UTILITIES, PAVEMENT, LANDSCAPING, STRUCTURES OR IMPROVEMENTS OF ANY KIND. THE GENERAL CONTRACTOR SHALL REPAIR ALL SUCH DAMAGE D ITEMS TO THE CONDITION THEY WERE IN PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES OR BETTER.
- WHERE IT IS NECESSARY TO INSURE STABILITY, CONTRACTOR IS TO PROVIDE ADDITIONAL ANCHORING AND/OR BLOCKING IN STUD PARTITIONS OR BRACE PARTITIONS ABOVE CEILINGS.
- THE NAME OF THE SPECIAL INSPECTION FIRM SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO THE START OF WORK.
- CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND CONDITIONS BEFORE SUBMITTING SHOP DRAWINGS AND BEFORE COMMENCING WORK.
- UNLESS OTHERWISE NOTED, EXTEND ALL NEW INSULATION TO THE FACE OF THE EXTERIOR WALL/ROOF; EXTEND ALL FINISHES IN INSULATED AREAS TIGHT TO DECK/SURFACE, TO HOLD INSULATION IN PLACE.
- REPAIR ALL AREAS DISTURBED BY THE WORK OF THIS PROJECT; INCLUDING SUBSTRATES OR STRUCTURAL REPAIRS; AND REPAIRS TO FINISHES TO MATCH AND ALIGN WITH EXISTING FINISHES TO REMAIN.
- UNLESS OTHERWISE INDICATED; EXTEND ALL NEW INTERIOR FIRE RATED WALLS; AND ALL NEW FRAMING TO DECK ABOVE.
- FIRESTOP ALL FRAMED PARTITIONS AS REQUIRED BY CODE.
- MAINTAIN THE INTEGRITY OF THE BUILDINGS STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SAFETY CONDITIONS UNCOVERED DURING DEMOLITION AND DURING NEW CONSTRUCTION WHICH WERE NOT ADDRESSED IN THE CONSTRUCTION DOCUMENTS.
- FIELD VERIFY DIMENSIONS BEFORE BEGINNING WITH CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES. DO NOT SCALE DRAWINGS.
- DIMENSION NOTES, FINISHES AND FIXTURES SHOWN ON TYPICAL PLANS, SECTIONS OR DETAILS SHALL APPLY TO SIMILAR, SYMMETRICAL, OR OPPOSITE PLANS, SECTIONS OR DETAILS.
- PROVIDE SEALANT AROUND WINDOWS, DOOR JAMBS AND HEADS, AND ADJACENT CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, CONCEALED WITHIN THE WALLS, FOR ATTACHMENT OF SURFACE AND/OR RECESSED MOUNTED EQUIPMENT OR ACCESSORIES, WHETHER SHOWN IN THE DRAWINGS OR NOT. BLOCKING TO BE FIRE RETARDANT.
- NEW CONSTRUCTION THAT MEETS OR CONNECTS WITH EXISTING CONSTRUCTION SHALL ALIGN EXACTLY.
- ALL DIMENSIONS SHOWN ON THE PLAN ARE FROM FINISH TO FINISH, UNLESS NOTED OTHERWISE.
- GC TO TAKE PROPER PRECAUTIONS AS TO PROTECT EXISTING CEILING TILE GRID IN ADJACENT SPACES FROM DAMAGE DURING CONSTRUCTION. ALL NEW SUSPENDED CEILING TILE GRID, BULKHEADS, ETC. SHALL BE SUSPENDED FROM THE STRUCTURAL DECK ABOVE.
- REMOVE ALL EXISTING ELECTRICAL WIRING, ELECTRICAL OUTLETS, FLOOR MOUNTED OUTLET DEVICES, SPECIAL EQUIPMENT OUTLET DEVICES CONNECTIONS, AND SWITCHES IN DEMOLISHED AND FURRED-OUT WALLS INCLUDED UNDER DEMOLITION WORK AND AS NECESSARY TO ACCOMPLISH THE TOTAL SCOPE OF WORK. COORDINATE WITH THE ELECTRICAL DRAWINGS.
- ALL DOOR SWINGS TO BE VERIFIED PRIOR TO INSTALLING LIGHT SWITCHES. SWITCHES SHALL BE ON LEVER SIDE OF DOOR AND SHALL BE 42" A.F.F. IN CASE OF CONFLICT NOTIFY ARCHITECT PRIOR TO INSTALLATION. EACH ENCLOSED AREA TO HAVE SEPARATE LIGHT SWITCH.
- COORDINATE WITH PARTITION, FURNITURE AND MILLWORK FOR ANY CONFLICT IN LOCATION AND DIMENSION OF POWER OUTLETS.
- COORDINATE ELECTRICAL DEVICE INSTALLATION WITH ALL TRADES. COORDINATION OF MILLWORK, ELECTRICAL PLANS, FURNITURE PLANS AND UNFORESEEN EXISTING CONDITIONS SHALL BE VERIFIED IN THE FIELD. ANY CONFLICTS WITH THE DRAWINGS AND/OR EXISTING CONDITIONS SHALL BE BROUGHT TO THE ARCHITECT'S/IHS REPRESENTATIVE'S ATTENTION.

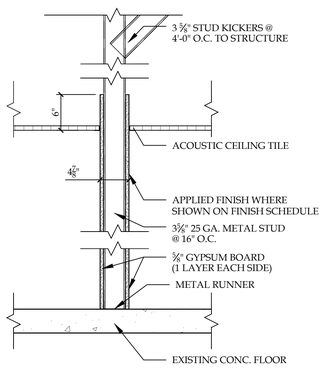
GENERAL WALL NOTES

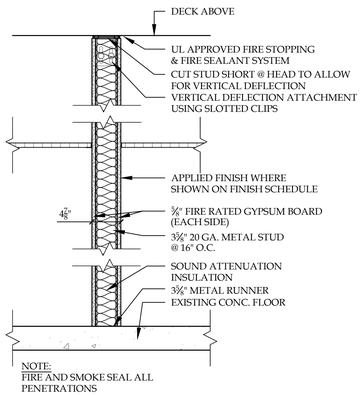
- SEE SPECIFICATIONS FOR APPLICATIONS OF GYPSUM PRODUCTS, UNLESS NOTED ON DRAWINGS. REFER TO SPECIFICATIONS FOR SPECIAL APPLICATIONS, THICKNESS, AND TYPES. (I.E. MOLD & MOISTURE RESISTANCE, TILE BACKER BOARDS, ETC.)
- REFER TO THE LATEST EDITION OF UNDERWRITERS LABORATORIES, INC. FIRE RESISTANCE DIRECTORY FOR ADDITIONAL REQUIREMENTS ON UL RATED ASSEMBLIES AS NOTED IN THE WALL SCHEDULE.
- USE ONLY PARTITIONS IDENTIFIED ON THE PLANS.
- STC = SOUND TRANSMISSION CLASS - REFER TO THE WALL SCHEDULE IN PLAN FOR WALLS THAT ARE SOUND RATED.
- ALL SEALANTS IN RATED WALL LOCATIONS REFERENCED IN THE WALL TYPE DETAILS SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE UNDERWRITERS LABORATORIES, INC FIRE RESISTANCE DIRECTORY. IN ADDITION TO FIRE RESISTANCE, WALL LOCATIONS CALLED OUT WITH REQUIRED ACOUSTICAL VALUE, AS NOTED IN WALL SCHEDULE, SHALL HAVE SEALANTS THAT MAINTAIN THE MINIMUM SOUNDS VALUE OF THE WALL PARTITION.
- FIRE CAULK ALL PENETRATIONS IN RATED WALL ASSEMBLIES.

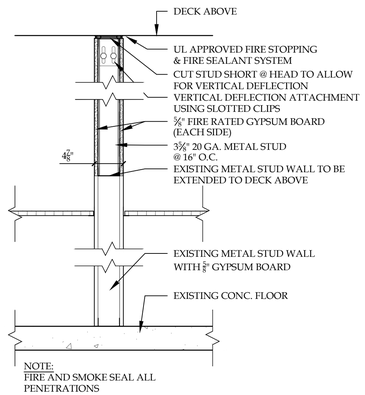
SOUND INSULATION NOTES

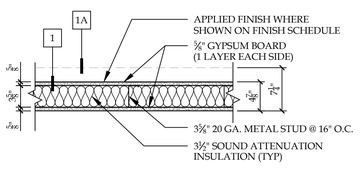
- ASSEMBLIES SHOULD BE AIRTIGHT. HAIRLINE CRACKS AND HOLES ARE NOT ALLOWED.
- RECESSED WALL FIXTURES SUCH AS CABINETS, OUTLETS, AND OTHER ITEMS WHICH PENETRATE THE GYPSUM BOARD SURFACE SHOULD NOT BE LOCATED BACK TO BACK IN THE SAME STUD CAVITY.
- ANY OPENINGS CUT FOR ANY FIXTURES SHALL BE CAREFULLY CUT TO SIZE, PROPERLY FASTENED, INSULATED PER WALL ASSEMBLY AND PROPERLY CAULKED.
- THE ENTIRE PERIMETER OF A SOUND INSULATING ASSEMBLY MUST BE MADE AIRTIGHT TO PREVENT SOUND FROM "FLANKING".
- AN ACOUSTICAL SEALANT SHOULD BE USED TO SEAL BETWEEN THE SOUND INSULATING ASSEMBLY AND ALL DISSIMILAR ASSEMBLIES AND BETWEEN THE ASSEMBLY AND SIMILAR SURFACES WHERE PERIMETER RELIEF IS REQUIRED. TAPING AND CAULKING OF GYPSUM BOARD WALL AND WALL-CEILING INTERSECTIONS PROVIDES AN ADEQUATE AIR SEAL AT THESE LOCATIONS.
- ALL SEALANTS IN RATED WALL LOCATIONS REFERENCED IN THE WALL TYPE DETAILS SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE UNDERWRITERS LABORATORIES, INC FIRE RESISTANCE DIRECTORY. IN ADDITION TO FIRE RESISTANCE, WALL LOCATIONS CALLED OUT WITH REQUIRED ACOUSTICAL VALUE, AS NOTED IN WALL SCHEDULE, SHALL HAVE SEALANTS THAT MAINTAIN THE MINIMUM SOUNDS VALUE OF THE WALL PARTITION.
- ASTM RECOMMENDED PRACTICES E-497 SHOULD BE FOLLOWED FOR GOOD SOUND CONTROL. ALSO CONSULT THE MANUFACTURER OF THE GYPSUM BOARD FOR ANY SPECIAL RECOMMENDATIONS RELATING TO THEIR SYSTEM.





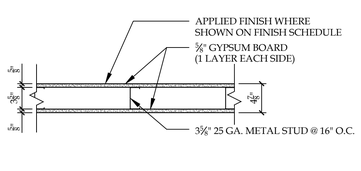




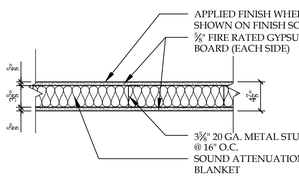


1 3⅝" ACOUSTIC PARTITION

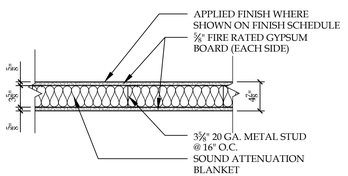
1A 6" METAL STUD ACOUSTIC PARTITION



2 3⅝" STANDARD PARTITION

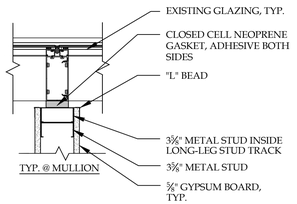


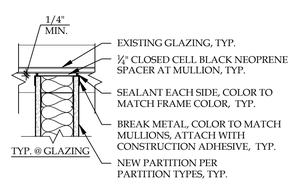
3 3 5/8" METAL STUD 1 HOUR FIRE RATED WALL
UL DESIGN - # U465
STC: 49 MIN.



4 1 HOUR FIRE RATED WALL @ EXISTING METAL STUD WALL
UL DESIGN - # U465

A1 PARTITION TYPES
SCALE: 1" = 1'-0"





A5 PARTITION GLAZING INTERSECTION DETAIL
SCALE: 1" = 1'-0"

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INTERIORS N.Catuzza

SEAL:

TITLE:
GENERAL NOTES & PARTITION TYPES

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SA JOB #: 17033.02
DATE: 11-06-2017

DRAWING #: A-001

4.2 SPACE ALLOWANCES AND REACH RANGES

SECTIONS 4.2.1 - WHEELCHAIR PASSAGE WIDTH

A. The minimum clear width for single wheelchair passage shall be 32" at a point and 36" continuously

SECTION 4.2.2 - WIDTH FOR WHEELCHAIR PASSING

A. The minimum clear width for two wheelchairs to pass is 60"

SECTION 4.2.4.1 - SIZE AND APPROACH

A. Minimum clear floor space for a wheelchair and occupant shall be 30" wide x 48" long. Clear floor space shall be centered on the element it serves.

4.3 ACCESSIBLE ROUTE

SECTION 4.3.2 - LOCATION

A. At least one accessible route shall be provided from public transportation stops, accessible parking and loading zones, and public streets or sidewalks to the accessible building entrance.

SECTIONS 4.3.3 - WIDTH

A. The minimum clear width of an accessible route shall be 36" except at doors.

SECTION 4.3.4 - PASSING SPACE

A. If an accessible route is less than 60" in width, then passing spaces of at least 60" x 60" shall be provided at 200' max. spacing.

SECTION 4.3.5 - HEAD ROOM

A. Accessible routes shall have 80" min. clear head room.

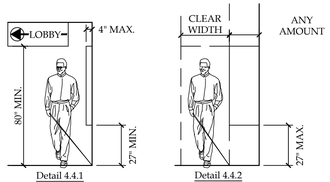
SECTIONS 4.3.7 - SLOPE

A. Running slope shall not exceed 1:20. (If slope exceeds 1:20, refer to section 4.8)
B. Cross slope shall not exceed 1:50

4.4 PROTRUDING OBJECTS (REFERENCE DETAIL 4.4.1 & 4.4.2)

SECTIONS 4.4.1 - GENERAL

A. Objects projecting from walls (for example, telephones) with their leading edges between 27"-80" above the finished floor shall protrude no more than 4" into walks, halls, corridors, passageways, or aisles. Objects mounted with their leading edges at or below 27" above the finished floor may protrude any amount. Free-standing objects mounted on posts or pylons may overhang 12" maximum from 27"-80" above the ground or finished floor. Protruding objects shall not reduce the clear width of an accessible route or maneuvering space.



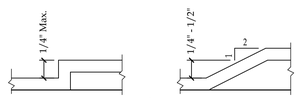
Detail 4.4.1 Detail 4.4.2

4.5 GROUND AND FLOOR SURFACES

SECTION 4.5.2 - CHANGES IN LEVEL (REFERENCE DETAIL. 5.1)

A. Changes in level up to 1/4" may be vertical and without edge treatment

B. Changes in level between 1/4" and 1/2" shall be beveled with a slope no greater than 1:2.



Detail 5.1

SECTIONS 4.5.3 - CARPET

A. Carpet provided on a floor surface shall be securely attached; have a firm pad or backing, or no pad; and have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Maximum pile thickness shall be 1/2". Exposed edges of carpet shall be fastened to floor surfaces and have trim along the exposed edges.

SECTION 4.5.4 - GRATINGS

A. If gratings are located in walking surfaces or along accessible routes, then they shall have spaces no greater than 1/2" wide in one direction.

B. If gratings have elongated openings, than they shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

4.6 PARKING AND PASSENGER LOADING ZONES

SECTIONS - 4.6.3 - PARKING SPACES

A. Accessible parking shall be at least 96" wide.

B. Parking access aisles shall be at 60" wide.
Van accessible access aisles shall be 96" wide.

C. Surface slope shall not exceed 1:50 in all directions
(Note : no built up curb ramp may be located in an accessible parking access aisle.)

SECTIONS 4.6.4 - SIGNAGE

A. Each accessible parking space must have individual vertically mounted or suspended sign. Required van accessible spaces must be designated.

B. Characters and symbols on such signs shall be located 60" minimum above the ground.

C. Signage located within an accessible route shall be located 80" min. above the walking surface.

SECTIONS 4.6.5 - VERTICAL CLEARANCE

A. Provide minimum vertical clearance of 114" at accessible passenger loading zones and along at least one vehicle access route from site entrances and exits.

SECTION 4.6.6 - PASSENGER LOADING ZONE

A. Passenger loading zones shall provide an access aisle at least 60" wide and 20 ft long adjacent and parallel to the vehicle pull-up space. If there are curbs between the access aisle and the vehicle pull-up space, than a curb ramp complying with 4.7 shall be provided. Vehicle standing spaces and access aisles shall be level with surface slopes not exceeding 1:50 in all directions.

4.7 CURB RAMPS

SECTIONS 4.7.2 - SLOPE (REFERENCE DETAIL 4.7)

A. Slopes of curb ramps shall comply with 4.8.2.

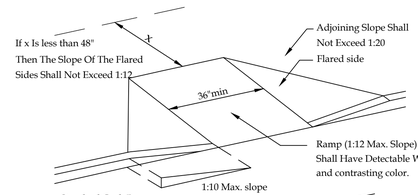
B. Maximum slopes of adjoining gutters, road surface immediately adjacent to the curb ramp, or accessible route shall not exceed 1:20.

SECTIONS 4.7.3 - WIDTH (REFERENCE DETAIL 4.7)

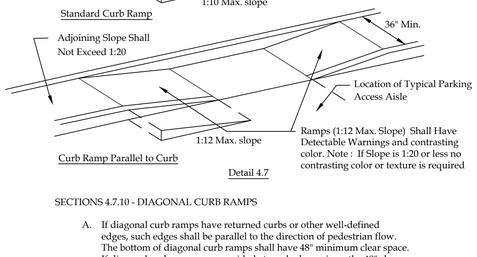
A. The minimum width of a curb ramp shall be 36", exclusive of flared sides.

SECTION 4.7.5 - SIDES OF CURB RAMPS (REFERENCE DETAIL 4.7)

A. If a curb ramp is located where pedestrians must walk across the ramp or where it is not protected by handrails or guardrails, it shall have flared sides; the maximum slope of the flare shall be 1:10



Standard Curb Ramp



Curb Ramp Parallel to Curb

Detail 4.7

SECTIONS 4.7.10 - DIAGONAL CURB RAMPS

A. If diagonal curb ramps have returned curbs or other well-defined edges, such edges shall be parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have 48" minimum clear space. If diagonal curb ramps are provided at marked crossings, the 48" clear space shall be within the markings. If diagonal curb ramps have flared sides, they shall also have at least a 24" long segment of straight curb located on each side of the curb ramp and within the marked crossing.

SECTIONS 4.7.11 - ISLANDS

A. Any raised islands in crossings shall be cut through level with the street or curb ramps at both sides and a level area at least 48" long between the curb ramps in the part of the island intersected by the crossings.

4.8 RAMPS

SECTIONS 4.8.1 - GENERAL

A. Any part of an accessible route with a slope greater than 1:20 shall be considered a ramp and shall comply with 4.8.

SECTIONS 4.8.2 - SLOPE AND RISE

A. The least possible slope shall be used for any ramp. The maximum slope of a ramp in new construction shall be 1:12. The maximum rise for any run shall be 30".

SECTIONS 4.8.3 - CLEAR WIDTH

A. The minimum clear width of a ramp 30 ft or less in length shall be 36". Ramps more than 30 ft. in length shall have a minimum clear width of 44".

SECTION 4.8.4 - LANDINGS

A. Level landings required at top and bottom of each run, with the following features:
1. Minimum Width: Equal to width of ramp
2. Length: Minimum 60" clear
3. At change of direction landing shall be 60" x 60" min.

SECTION 4.8.5 - HANDRAILS

A. Handrails are required at all ramps with > 6" rise.
B. Height: 34"-38" above ramp surface.
C. The clear space between the handrail and the wall shall be 1-1/2".

SECTIONS 4.8.1 - EDGE PROTECTION

A. Ramps and landings with drop offs shall have curbs, walls, railings, or projecting surfaces that prevent slipping off the ramp. Curbs shall be a minimum of 2" high.

4.9 STAIRS

SECTION 4.9.2 - TREADS AND RISERS

A. All steps on a flight of stairs shall have uniform risers heights and tread widths

1. Minimum tread depth shall be 11", measured from riser to riser (not including nosing)
2. Open risers are not permitted

SECTIONS 4.9.4 - HANDRAILS

A. Non-continuous handrails shall extended 12" beyond the top riser and 12" plus the width of one tread beyond the bottom riser. At the top, the extension shall be parallel to the floor. A the bottom, the handrail shall continue to slope for a distance of one tread width (11"); the remaining extension shall be horizontal.

B. Height: 34" - 38", measured from the stair nosing.

4.10 ELEVATORS

SECTIONS 4.10.3 - HALL CALL BUTTONS

A. Shall be centered 42" above floor

SECTIONS 4.10.3 - HALL LANTERNS

A. Visible signals shall have the following features:

1. Fixtures shall be mounted with centerline at least 72" above the lobby floor
2. Visual elements shall be at least 2-1/2" in the smallest dimension

SECTIONS 4.10.5 - RAISED AND BRAILLE CHARACTERS ON HOISTWAY ENTRANCES

A. All elevator hoistway entrances shall have raised and Braille floor no. designations provided on both jambs. Centerline of the characters shall be 60" above the floor. Characters shall be 2" high.

SECTIONS 4.10.6 - DOOR PROTECTIVE AND REOPENING DEVICE

A. Elevator doors shall open and close automatically. They shall be provided with a reopening devise that will stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.

SECTIONS 4.10.12 - CAR CONTROLS

A. All floor buttons shall be:
1. All control buttons shall be at least 3/4" in their smallest dim. They shall be flushed or raised.
2. All control buttons shall be designated by Braille and be raised standard alphabet characters for letters, Arabic characters for numerals. The call button for the main entry floor shall be designated by a raised star at the left of a floor designation.
3. Maximum 54" above floor where side approach is provided
4. Maximum 48" where forward approach is provided

B. Emergency Controls:
1. Shall have centerlines 35" minimum above floor
2. Shall be grouped at bottom of panel

C. The emergency communication system shall not require voice communication.

4.11 PLATFORM LIFTS

NOTE : REQUIRES A VARIANCE FROM THE T.D.L.R. TO USE IN LIEU OF AN ELEVATOR

SECTIONS 4.11.2, 4.27.3 - OTHER REQUIREMENTS
CONTROLS AND OPERATING SYSTEMS

A. Height permitted:
Controls and operating mechanisms shall be located for either a forward or side approach from any direction of travel. They shall be located 28" min. and 48" maximum above the floor. They shall be operable with one hand. There shall be at least one handrail complying with 4.26. Wheelstops and guardrails shall be provided where necessary.

4.13 DOORS

SECTION 4.13.4 - DOUBLE - LEAF DOORWAYS

A. Doorways with two independently operated leaves shall have at least one active leaf that meets the requirements in 4.13.5 and 4.13.6.

SECTION 4.13.5 - CLEAR WIDTH

A. Doorways shall provide a clear opening of 32" minimum, with the door open 90°.

1. Clear opening shall be measured between the face of the door and opposite stop.
2. Openings more than 24" in depth shall provide a clear opening of 36" minimum.

Exception: Doors not requiring full user passage, such as shallow closets, shall have a clear opening of 20" minimum.

SECTION 4.13.6 - MANEUVERING CLEARANCES AT DOORS

Provide level (1:50 max. slope) and clear maneuvering area at doors as follows:

A. Front approach pull side - 60" min. width & 18' min, beside strike edge
Front approach push side - 48" min. width & 0" beside strike edge
(12" @ strike if door has both a closer and a latch)

B. Hinge side approach pull side - 60" min. width; 36" min. beside strike edge
or - 54" min. width; 42" min. beside strike edge
Hinge side approach push side - 42" min. width & 18" min. beside hinge edge
(48" min. width if door has both a closer and a latch)

C. Latch side approach pull side - 48" min. width and 24" min. beside strike edge
(54"min. width if door has a closer)
Latch side approach push side - 42" min. width and 24" min. beside strike edge
(48"min. width if door has a closer)

SECTION 4.13.8 - THRESHOLDS AT DOORWAYS

A. Maximum threshold height: 1/2" (3/4" at exterior sliding doors). Raised thresholds and floor level changes shall be beveled with a slope no greater than 1:2.

SECTION 4.13.9 - DOOR HARDWARE

A. Handles, pulls, latches, locks, and other operating devices shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate.

1. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs.

2. When sliding doors are fully open, operating hardware shall be exposed and usable from both sides.

3. Hardware required for accessible door passage shall be mounted no higher than 48" above finished floor.

SECTION 4.13.10 - DOOR CLOSERS

A. If a door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of 70°, the door will take at least 3 seconds to move to a point 3" from the latch, measured to the leading edge of the door.

SECTION 4.13.11 - DOOR OPENING FORCE

A. The maximum force for pushing or pulling open a door shall be as follows:

1. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority.

2. Other doors
a. Exterior hinged doors: no requirement.
b. Interior hinged doors: 5.0 lbf.
c. Sliding or folding doors: 5.0 lbf.

These forces do not apply to the force required to retract latch bolts or disengage other devices that may hold the door in a closed position.

4.15 DRINKING FOUNTAINS

SECTION 4.15.2 - SPOUT HEIGHT (REFERENCE DETAIL 4.15 for accessible unit)

A. Accessible spouts shall be no higher than 36", measured from the floor or ground surface to the spout outlet.

B. In addition to accessible unit, at least one drinking fountain shall be at standard height (may be "high/low" type if located in one location).

SECTION 4.15.3 - SPOUT LOCATION

A. Spouts shall be located at the front of the unit and shall direct the water flow in a trajectory that is parallel or nearly parallel to the front of the unit.

1. The spout shall provide a flow of water at least 4" high.
2. If the fountain has a round or oval bowl, the spout must be positioned so the flow of water is within 3" of the front edge of the fountain.

SECTION 4.15.4 - CONTROLS

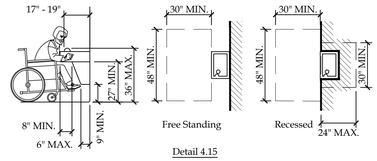
A. Unit controls shall be front mounted or side mounted near the front edge.

SECTION 4.15.5 - CLEARANCES (REFERENCE DETAIL 4.15)

A. Wall and post mounted cantilever fountains shall have clear knee space as follows:

1. Minimum 27" high (from apron bottom to floor) minimum 30" wide, and 17" - 19" deep.
2. A minimum 30" by 48" clear floor space allowing a forward approach to the unit shall be provided.

B. Free standing or biult-in units having a clear knee space shall have a minimum 30" by 48" clear floor space allowing a parallel approach to the unit.



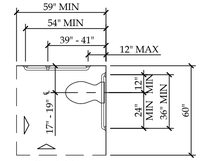
Detail 4.15

4.16 WATER CLOSETS

SECTION 4.16.2 - CLEAR FLOOR SPACE

A. Clear floor space for water closets not in stalls shall be provided as follows:
Front approach - 48" min. wide x 66" min. long
Side approach - 56" min. to front of toilet x 48" min. wide
Both approach - 60" min. wide x 56" min. long (Reference Detail 4.16)

B. No door swings are allowed in clear floor area.



Detail 4.16

SECTION 4.16.3 - HEIGHT (REFERENCE DETAIL 4.16.2)

A. The height to the top of the toilet seat shall be 17" - 19" above floor.

1. Seats shall not be sprung to return to a lifted position.

SECTION 4.16.4, 4.26 - GRAB BARS (REFERENCE DETAILS 4.16.1, 4.16.2 & 4.16.3)

A. For water closets no located in the toilet stalls, the following grab bars shall be provided, 33" - 36" above the finish floor:

1. Side wall: 42" long minimum, hold 12" min. from back wall.
Vertical grab bar: 18" long minimum, mounted with the bottom of the bar located between 39" - 41" above the floor, and with the center line of the bar located between 39" - 41" from the rear wall.
2. Back wall: 36" long minimum, 12" minimum each side of water closet centerline.

Refer to 4.26 Grab Bars for size and structural elements.

SECTION 4.16.5, 4.27.4 - FLUSH CONTROLS (REFERENCE DETAIL 4.16.3)

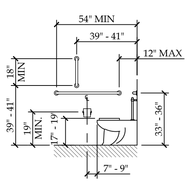
A. Controls shall be 44" maximum above the finish floor.

1. Lever controls or flush valves shall be mounted on the wide side of toilet areas.
2. Controls shall be hand operated or automatic.
3. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
4. The force required to activate controls shall be no greater the 5lbf.

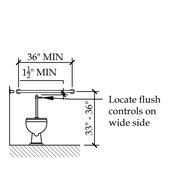
SECTION 4.16.6 - DISPENSERS (REFERENCE DETAIL 4.16.2)

A. Toilet paper dispensers shall be installed on the side wall, a minimum 19" above the floor, and a maximum 36" from the rear wall.

1. Dispensers that control delivery or do not permit continuous paper flow shall not be used.



Detail 4.16.2



Detail 4.16.3

4.17 TOILET STALLS

SECTION 4.22.4 - WHERE APPLICABLE

A. If toilet stalls are provided in a toilet room or bathroom, then at least one shall be a "standard" accessible toilet stall (for wheelchair users) complying with this section. (REFERENCE DETAIL 4.17.1)

B. If 6 or more toilet stalls are provided in a toilet room or bathroom in addition to the 'standard' accessible stall required; an additional 'alternate A' accessible stall 36" wide (for ambulatory persons with disabilities) complying with this section shall be provided. (REFERENCE DETAIL 4.17.2)

C. Alternations/Existing Conditions: In alteration work. where provision of a 'standard' accessible stall is technically infeasible, or where plumbing code requirements prevent combing existing stalls to provide space, either 'alternate' stall (A or B) complying with this section may be provided in lieu of the standard stall. (Note : requires a variance from T.D.L.R.)

SECTION 4.17.3 - SIZE AND ARRANGEMENT (REFERENCE DETAIL 4.17)

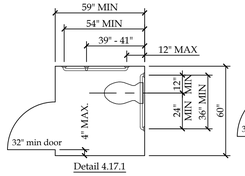
A. Toilet stalls may be arranged to provide either a left or a right handed approach. Accessible toilet stalls shall have the following dimensions:

1. 'Standard' Accessible Stall
60" minimum width.
59" minimum depth, with floor mounted water closet
56" minimum depth, with wall mounted water closet
Door: outward swinging (if door swings into stall, depth shall be increased by 36". Stall door must have 18" on pull strike jamb.)

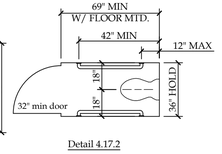
2. 'Alternate A' Accessible Stall (required when more than 6 stalls)

36" width - hold this dim.
69" minimum depth, with floor mounted water closet.
66" minimum depth with wall mounted water closet
Door: outward swinging.

3. 'Alternate B' Accessible Stall (permitted in lieu of standard stall only with variance from T.D.L.R.)
48" minimum width.
54" minimum depth.
Door : outward swinging.



Detail 4.17.1



Detail 4.17.2

SECTION 4.17.4 - TOE CLEARANCES

A. In 'standard' accessible stalls, the front partition and at least one side partition shall provide a toe clearance of at least 9" above the floor.

B. If the depth of the stall is greater than 60", the toe clearance is not required.

SECTION 4.17.5 - DOORS

A. Toilet stall doors, including hardware, shall comply with 4.13 DOORS

B. If toilet stall approach is from the latch side of the stall door, clearance between the door side of the stall and any obstruction shall be 42" minimum. (This is an exception from the typical door maneuvering clearances)

SECTION 4.17.6 - GRAB BARS (REFERENCE DETAILS 4.16.2, 4.16.3, 4.17.1 & 4.17.2)

A. Grab Bars shall be mounted 33" - 36" above the floor.

B. A vertical grab bar 18" long minimum shall be mounted with the bottom of the bar located between 39" - 41" above the floor, and with the center line of the bar located between 39" - 41" from the rear wall.

Refer to 4.26 Grab Bars for size and structural requirements.

4.18 URINALS

SECTION 4.18.2 - HEIGHT (REFERENCE DETAIL 12.3.1)

A. Urinals shall be stall-type or wallhung with a tapered, elongated rim at 17" maximum above the finished floor.
The rim shall extend a minimum of 14" from the wall.

SECTION 4.18.3 - CLEAR FLOOR SPACE (REFERENCE DETAIL 4.18.1)

A. A clear floor space 30" wide by 48" deep minimum shall be provided in front of urinal to allow forward approach.

1. This space shall adjoin or overlap an accessible route.

2. Urinal shield that do not extend beyond the front edge of the urinal rim may be provided with 29" clearance between them.

3. Urinals installed in alcoves deeper than 24" require a maneuvering area of at least 36" minimum wide, centered on fixture.

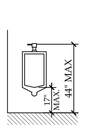
SECTION 4.18.4 - FLUSH CONTROLS (REFERENCE DETAIL 4.18.2)

A. Controls shall be 44" maximum above the finished floor.

1. Controls shall be 44" maximum above the finished floor.

2. Controls shall be hand operated or automatic.

3. The force required to activate controls shall be no greater than 5 lfb.



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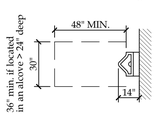

Detail 4.18.2

GENERAL NOTES: NOT ALL CODE DEFINITIONS LISTED ON THIS SHEET MAY BE IN PROJECT

Bryant & Stratton

180 Redtail

Orchard Park NY

ISSUE:
2017-11-06: BID/PERMIT SET

SA PROJECT TEAM: PRINCIPAL P.Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. S.Hunt INTERIORS N.Catuzza

SEAL:

TITLE:

ADA NOTES & DETAILS

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SA JOB #: 17033.02

DATE: 11-06-2017

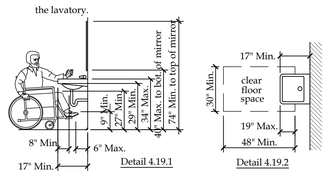
DRAWING #: A-002

4.19 LAVATORIES & MIRRORS

SECTION 4.19.2 - HEIGHT & CLEARANCES (REFERENCE DETAIL 4.19.1 & 4.19.2)

A. Lavatories shall be mounted with the rim or counter surface no higher than 34" above the finished floor.

1. Lavatories shall extend 17" minimum from the wall.
2. Clearance of 29" minimum shall be provided from the finished floor to bottom apron.
3. Knee clearance of 27" minimum shall extend 8" minimum under the edge of the lavatory.
4. Toe clearance of 9" minimum shall be provided for the full depth of the lavatory.



Detail 4.19.1

Detail 4.19.2

SECTION 4.19.4 - EXPOSED PIPES AND SURFACES

A. Hot water and drain pipes under the lavatories shall be insulated or otherwise configured to protect against contact.

B. There shall be no sharp or abrasive surfaces under lavatories.

SECTION 4.19.5, 4.27.4 - FAUCETS

A. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.

B. The force required to activate controls shall be no greater than 5 lbf.

C. Lever-operated, push-type, and electronically controlled mechanisms are examples of acceptable designs.

D. If self-closing valves are used the faucet shall remain open for at least 10 seconds.

SECTION 4.19.6 - MIRRORS (REFERENCE DETAIL 4.19.1)

A. Mirrors shall be mounted with the bottom edge of the reflecting surface 40" maximum above the finished floor.

B. The top edge of the reflecting surface must be at least 74" AFF.

4.20 BATHTUBS

SECTION 4.20.2 - FLOOR SPACE

A. Clear floor space shall be provided in from of bathtubs as follows:
30" wide x 60" long beside the bathtub for side approach
48" x 60" long beside the bathtub for front approach

with seat at head of tub - 30" x 75" long beside tub

SECTION 4.20.3 - SEAT

A. An in-tub seat or seat at the head of the tub shall be provided. Seats shall be mounted securely and shall not slip during use.

SECTION 4.20.4 - GRAB BARS

A. Heights permitted:

1. With in Tub Seat:
Foot control wall: 24" long minimum, from outside wall, 33-36" above floor
Back wall: 2 bars, 24" long minimum, 12" maximum from foot wall, 24" maximum from head wall; one 33-36" above floor, one 9" above the tub
Head wall: 12" minimum, from outside wall, 33-36" above floor
2. With Seat at Head of Tub:
Control wall: 24" long minimum, from the outside wall, 33-36" above floor
Back wall: 2 bars, 48" long minimum, 12" maximum from foot end, 15" maximum from head end; one 33-36" above floor, one 9" above the tub

Head wall: none

SECTION 4.20.5 - CONTROLS
A. Controls must be located up front to the open side of the tub

SECTION 4.20.6 - SHOWER UNIT
A. A shower spray unit with a hose at least 60" long shall be provided that can be used both as fixed and hand held.

4.21 SHOWER STALLS

SECTION 4.21.2 - SIZE AND CLEARANCES

A. Shower stalls shall be either 36"x36" clear inside dimension (hold) at transfer type or 30" min. x 60" min. clear inside dimension at roll in type.

SECTIONS 4.21.3 - SEAT

A. Seat is required in 36" x 36" stalls, and shall have the following features:

1. Shall be 17"-19" above bathroom floor
2. Shall extend the full depth of the stall
3. Shall be located on the wall opposite control wall
4. Maximum space between wall and seat edge shall be 1-1/2"
5. Shall project 16" maximum into stall width, except at the rear 15" maximum of the stall, where the seat may project 23"
6. Where a seat is provided in a roll in type shower it must be the fold-up type.

SECTIONS 4.21.4 - GRAB BARS

A. Grab bars shall be mounted 33-36" above floor

B. Vertical grab 18" min. in length shall be provided on the control end wall 3" - 6" above the horizontal grab bar, and 4" maximum inward from the front edge of the shower.

SECTIONS 4.21.5 - CONTROLS

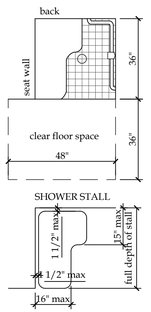
A. All shower controls shall be located 38" minimum and 48" maximum above the floor, up front on the open side.

SECTION 4.21.6 - SHOWER UNIT

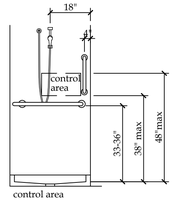
A. A shower spray unit with a hose at least 60" long that can be used both as a fixed shower head and as a hand held shower shall be provided. The mounting device shall comply with the requirements for Forward Reach.

SECTIONS 4.21.7 - CURBS

A. If provided, curbs on transfer showers shall be no higher than 1/2" roll-in showers shall not have curbs



SHOWER SEAT DETAIL



4.22 TOILET ROOMS

SECTION 4.22.2 - DOORS

A. All doors to accessible toilet rooms shall comply with 4.13 Doors shall not swing into clear floor space required for any fixture. Clear floor turning space may overlap door swings.

SECTION 4.22.3 - CLEAR FLOOR SPACE

A. The accessible fixtures and controls required in 4.22.4, 4.22.5, 4.22.6, 4.22.7 shall be on an accessible route. An unobstructed turning space complying with 4.2.3 shall be provided within an accessible toilet room. The clear floor space at fixtures and controls, the accessible route, and the turning space may overlap, however; the only turning space provided shall not be located within a stall.

SECTIONS 4.22.2 - WATER CLOSETS

A. If toilet stalls are provided, then at least one shall be a standard toilet stall complying with 4.17; where 6 or more stalls are provided in addition to the stall complying with 4.17.3, at least one stall 36" wide with an outward swinging, self-closing door and parallel grab bars shall be provided. Water closets in such stalls shall comply with 4.16.

SECTIONS 4.22.5 - URINALS

A. If urinals are provided, then at least one shall comply with 4.18.

SECTIONS 4.22.6 - LAVATORIES AND MIRRORS

A. If controls, dispensers, receptacles, or other equipment are provided, then at least one of each shall be on an accessible route and shall comply with 4.27.1 (Controls & Operating Mechanisms).

4.23 - BATHROOMS, BATHING FACILITIES, AND SHOWER ROOMS

SECTION 4.23.8 - BATHING AND SHOWER FACILITIES

A. In addition to the requirements of 4.22. toilet rooms :
If tubs and showers are provided, than at least one accessible shower that complies with 4.21 shall be provided

4.24 - SINKS

SECTION 4.24.2 - HEIGHT

SECTION 4.24.3 - KNEE CLEARANCE
A. Knee clearance of 27" high minimum, 30" wide minimum, 19" deep minimum shall be provided underneath sinks.

SECTION 4.24.4 - DEPTH

A. Each sink shall be a maximum of 6-1/2" deep.

SECTION 4.24.6 - EXPOSED PIPES AND SURFACES

A. Hot water and drain pipes under sinks shall be insulated or otherwise configured to protect against contact.

B. There shall be no sharp or abrasive surfaces under the sinks.

SECTION 4.24.7, 4.27.4 - FAUCETS

A. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.

B. The force required to activate controls shall be no greater than 5 lbf.

C. Lever-operted, push-type, and electronically controlled mechanisms are examples of acceptable designs.

D. If self-closing valves are used the faucet shall remain open for at least 10 seconds.

4.25 - STORAGE

SECTION 4.25.1 - DEPTH (REFERENCE DETAIL 4.25.1)

A. Storage areas may be 36" in depth or less. If more than 36" in depth then area must allow 60" diameter of clear floor space for turning.

SECTION 4.25.2 - CLEAR FLOOR SPACE: (REFERENCE DETAIL 4.25.2)

SECTION 4.25.3 - HEIGHT (REFERENCE DETAIL 14.3 AND 4.25.3 & 4.25.4)

A. Where a forward reach is required, accessible storage spaces shall be 48" maximum and 15" minimum above the floor. If the forward reach is over obstruction (with knee space equal to or greater than reach distance) 20"-25" deep, the maximum height shall be 44"; if the obstruction is less than 20", maximum height shall be 48".

B. Where a side reach is provided, accessible storage spaces shall be 54" maximum and 9" minimum above the floor. Maximum height shall be 46" for side reach over an obstruction 34" maximum high and 24" maximum deep.

C. Clothes rods or shelves shall be a maximum 54" above floor where a side reach is required.

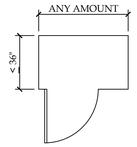
D. Where the distance from the wheelchair to the clothes rod or shelf exceeds 10" (as at closets with inaccessible doors) the following criteria shall be met:

1. Shelves: Reach: 21" maximum; height: 48" maximum, 9" minimum.
2. Clothes rods: reach 21" maximum; height: 48" maximum.

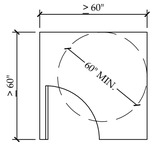
SECTION 4.25.4, 4.27.4 - HARDWARE

A. Hardware for accessible storage facilities shall be operable with one hand and shall not requiring tight grasping, pinching, or twisting of the wrist.

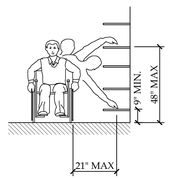
B. The force required to activate the hardware shall be no greater than 5lbf



Detail 4.25.1



Detail 4.25.2



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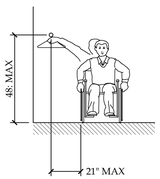


Detail 4.25.4

4.26 - GRAB BARS

SECTION 4.26.2 - SIZE AND SPACING

A. Diameter or width of gripping surface shall be 1-1/4" to 1-1/2", or the shape shall provide an equivalent gripping surface.

1. The space between grab bars and adjacent walls shall be 1-1/2"

SECTION 4.26.3 - STRUCTURAL STRENGTH

A. Grab bars and mounting devices shall meet the following requirements:

1. Bending stress induced by maximum bending moment from application of 250 lbf shall be less than allowable stress for material used.
2. Shear stress induced by application of 250 lbf shall be less than allowable shear stress for material used. If connection between grab
3. Shear force induced in a fastener or mounting device from application of 250 lbf shall be less than allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.
4. Tensile force induced in a fastener by a direct tension force of 250 lbf plus the maximum moment from the application of 250 lbf shall be less than the allowable withdrawal load between the fastener and the supporting structure.
5. Grab bars shall not rotate within their fittings.

SECTION 4.26.4 - ELIMINATING HAZARDS

A. Grab bars and adjacent wall surfaces shall be free of sharp or abrasive surfaces.

B. Edges shall have a radius of 1/8" minimum.

4.27 - CONTROLS AND OPERATING MECHANISMS

SECTION 4.27.3 - HEIGHT (REFERENCE DETAIL 4.30.3)
A. Front approach - 48" max. to 15" min.
Controls located in an alcove >24" deep must have 36" clear floor width.

B. Side approach - 54" max. to 9" min., except per below.
C. Electrical & communication system receptacles shall be mounted no less than 15" above the floor.

4.28 - ALARMS

SECTION 4.28.1 - GENERAL

A. When required, visual alarms shall be provided in each of the following areas, as a minimum: restrooms and any other general usage areas (e.g., meeting rooms), hallways, lobbies, and any other area for common use.

SECTION 4.28.2 - AUDIBLE ALARMS

A. If provided, audible alarms shall produce a sound that exceeds the prevailing equivalent sound level in the room or space by at least 15 dba or exceeds any maximum sound level with a duration of 60 seconds by 5 dba, whichever is louder.

B. Sound levels for alarm signals shall not exceed 120 dba.

SECTION 4.28.3 - VISUAL ALARMS

A. Visual alarm signal appliances shall be integrated into the building or facility alarm system. If single station audible alarms are provided then single station visual alarm signals shall be provided.

Visual Alarm appliances shall have the following features:

1. The lamp shall be a xenon strobe type or equivalent.
2. The color shall be clear or nominal white (i.e. unfiltered or clear filtered white light).
3. The maximum pulse duration shall be two-tenths of one second with a maximum duty cycle of 40% (the pulse duration is defined as the time interval between initial and final points of 10% of max signal)
4. The intensity shall be a minimum of 75 candela.
5. The flash rate shall be a minimum of 1 Hz and a maximum of 3 Hz
6. The appliance shall be placed 80" above the highest floor level within the space or 6" below the ceiling, whichever is lower.
7. In general, no place in any room or space shall be more than 50' from the signal (measured in a horizontal plane).
   a. In large rooms and spaces exceeding 100' across, without obstructions 6' above the finished floor, such as auditoriums, devices may be placed around the perimeter, spaced a maximum 100' apart, in lieu of suspending appliances from the ceiling.
8. No place in common corridors or hallways shall be more than 50' from the signal.

4.30 - SIGNAGE

SECTIONS 4.1.3(16)(a) - WHERE APPLICABLE

A. Signs which designate permanent rooms and spaces shall comply with the requirements listed below for:

1. Raised and Braille Characters, and Pictograms
2. Finish and Contrast

Exception: Employee name signs are not required to comply.

SECTION 4.1.2(7), 4.1.3(16)(b) - WHERE APPLICABLE

A. Signs which provide direction to, or information about, functional spaces of the building shall comply with the requirements listed below for:

1. Character Proportion
2. Character Height
3. Finish and Contrast

Exception: Building directories, menus, and all other signs which are temporary are not required to comply.

SECTION 4.1.2(7) - WHERE APPLICABLE (REFERENCE DETAIL 4.30.1)

A. Element and spaces of accessible facilities which shall be identified by the International Symbol of Accessibility are:

1. Parking spaces designated as reserved for persons with disabilities.
2. Accessible passenger loading zones.
3. Accessible entrances when not all are accessible (inaccessible entrances shall have directional Signage to indicate route to to nearest accessible entrance.)
4. Accessible toilet and bathing facilities when not all are accessible.

SECTION 4.30.2 - CHARACTER PROPORTION (REFERENCE DETAIL 4.30.2)

A. Letters and numbers on signs shall have a width-to-height ratio between 3:5 and 1:1, and a stroke-width-to-height ration between 1:5 and 1:10.

SECTION 4.30.3 - CHARACTER HEIGHT

A. Characters and numbers on overhead signs shall be sized according to the viewing distance from which they are to be read.

1. For signs higher than 80" above the finished floor, character size shall be 3" minimum.
2. The minimum height is measured using an upper case X.
3. Lower case letters are permitted.

SECTION 4.30.4 - RAISED AND BRAILLE CHARACTERS AND PICTOGRAMS

A. Letter and numerals shall be raised 1/32", upper case, sans serif and shall be accompanied by grade 2 Braille.

1. Raised character height: 5/8" minimum, 2" high maximum
2. Pictograms shall be accompanied by the equivalent verbal description placed directly below the pictogram.
3. The border dimension of the pictogram shall be 6" minimum

SECTION 4.30.5 - FINISH AND CONTRAST

A. The character and background of the signs shall be eggshell, matte, or other non-glare finish. Characters and symbols shall contrast with their background (either light characters on a dark background or dark characters on a light background).

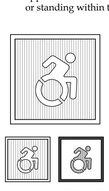
SECTION 4.30.6 - MOUNTING LOCATION AND HEIGHT (REFERENCE DETAIL 4.30.3)

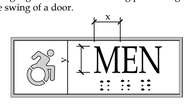
A. Where permanent identification is provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch side of the door.

B. Where there is no wall space to the latch side of the door, including at double-leaf doors, signs shall be placed on the nearest adjacent wall.

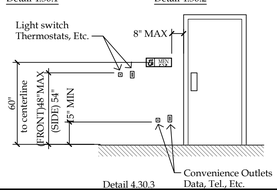
C. Mounting height shall be 60" above the finished floor to the centerline of the sign.

D. Mounting location for such Signage shall be so that a person may approach within 3" of Signage without encountering protruding objects or standing within the swing of a door.


International Symbol of Accessibility
Detail 4.30.1



Letter & numbers on signs shall have a width to height ratio of between 3:5 & 1:1 and a stroke - width to height ratio between 1:5 & 1:10. Letters and numbers shall be raised 1/32", upper case, sans serif or simple serif type and shall be accompanied with grade 2 Braille, raised characters shall be at least 5/8" high, but no higher than 2".
Detail 4.30.2



Detail 4.30.3

4.31 - PUBLIC TELEPHONES

SECTION 4.1.3(17)(a) - WHERE APPLICABLE

A. If public telephones, public closed circuit telephones, or other public telephones if provided, then shall comply with this section in the quantities below:

1. If one or more single unit of a type of public telephone is provided on a floor, then at least one of those phones shall comply with this section.
2. If one bank (defined as two or more adjacent public telephones, often installed as a unit) of a type of those phones shall comply with this section.
3. If two or more banks of a type of public telephone are provided on a floor, then at least one telephone per bank shall comply with this section. The accessible unit may be installed as a single unit in proximity (either visible or with signage) to the bank. At least one public telephone per floor shall meet the requirements for a forward reach telephone.

Additional public telephones may be installed at any height.

Unless otherwise specified, accessible telephones may be either forward or side reach telephones.

SECTION 4.1.3(17)(b) - WHERE APPLICABLE

A. All telephones required to be accessible shall be equipped with a volume control.

B. In addition, 25%, but never less than one, of all public telephones provided shall be equipped with a volume control and shall be dispersed all type of telephones, including closed circuit telephones, throughout the building or facility.

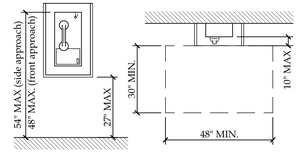
C. Signage displaying the International Symbol of Access for Hearing Loss shall be temporary are not required to comply.

SECTION 4.31.3 - MOUNTING HEIGHT (REFERENCE DETAIL 4.31)

A. The highest operable part of the telephone shall be 48" ma the floor where a forward reach is required, and 54" maxim a side reach is required.

B. If the forward reach is over an obstruction (with knee space equal to or greater than the reach distance) 20"-25" deep the maximum height shall be 44"; if the obstruction is less than 20", maximum height shall be 48"

C. Maximum height shall be 46" for side reach over an obstruction 34" maximum high and 24" maximum deep.



Detail 4.31

4.32 - SEATING AND TABLES

SECTION 4.32.2 - SEATING
A. If seating spaces for people in wheelchairs are provided at fixed tables or counters, clear floor space of 30" x 48" shall be provided. Floor space shall not overlap required knee space by more than 19"

SECTION 4.32.3 - KNEE SPACE
B. If seating for people in wheelchairs is provided at fixed tables or counters, knee space at least 27" high, 30" wide and 19" deep shall be provided.

SECTION 4.32.4 - HEIGHT OF TABLE OR COUNTER
C. The tops of accessible tables and counters shall be 28" minimum, and 34" maximum, above the finished floor.

4.34 - AUTOMATIC TELLER MACHINES

SECTIONS 4.34.2 - CLEAR FLOOR SPACE

A. Floor space shall comply with 4.2.4 to allow a forward, parallel approach or both.

SECTIONS 4.34.3 - REACH RANGES

A. Forward approach only: controls within forward approach specified in 4.2.5.

B. Parallel approach: controls within unobstructed reach range from clear floor space at protrusion of teller machine surround per table as follows:

Reach Depth	Maximum Height	Reach Depth	Maximum Height	Reach Depth	Maximum Height
in inches	in inches	in inches	in inches	in inches	in inches
10 or less	54	15	51	20	48 1/2
11	53 1/2	16	50 1/2	21	47 1/2
12	53	17	50	22	47
13	52 1/2	18	49 1/2	23	46 1/2
14	51 1/2	19	49	24	46

Note : above does not apply to drive up machines.

4.35 DRESSING AND FITTING ROOMS

SECTION 4.35.2

A. Clear floor area with a 60" dia. wheelchair turnaround is required. The turnaround area must be clear of door swings

SECTION 4.35.4 - BENCH

A. Every accessible dressing room shall have a 24" x 48" bench fixed to the wall along the larger dimension. The bench shall be mounted 17" to 19" above the finish floor.

SECTION 4.35.6 -- MIRROR

A. A full-length mirror, measuring at least 18" wide by 54" high, shall be mounted in a position affording a view to a person on the bench as well as to a person in a standing position.

Bryant & Stratton

180 Redtail

Orchard Park NY

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2017-11-06: BID/PERMIT SET

SA PROJECT TEAM: PRINCIPAL P.Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. S.Hunt INTERIORS N.Catuzza

SEAL:

TITLE:

ADA NOTES & DETAILS

SILVESTRI ARCHITECTS • PC
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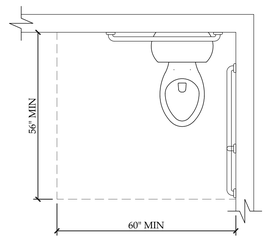
SA JOB #: 17033.02

DATE: 11-06-2017

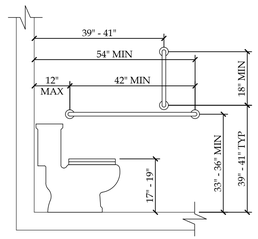
DRAWING #: A-003

ICC/ANSI A117.1-2003

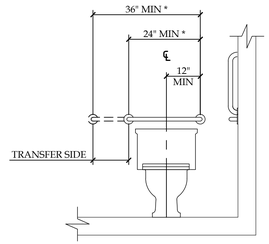
ADA &/OR BARRIER FREE
HANDICAPPED ACCESSIBILITY
GUIDELINES



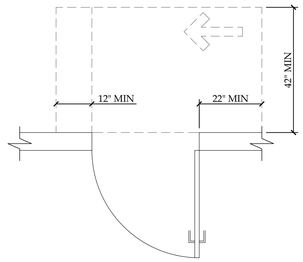
SIZE OF CLEARANCE FOR WATER CLOSET



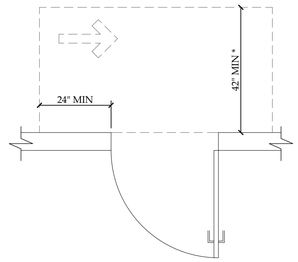
SIDE WALL GRAB BAR FOR WATER CLOSETS



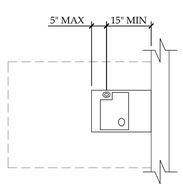
REAR WALL GRAB BAR FOR WATR CLOSETS
*36" MIN WHEN WALL SPACE PERMITS



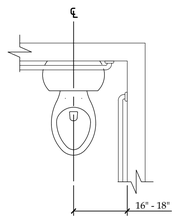
HINGE APPROACH, PUSH SIDE



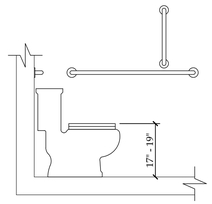
LATCH APPROACH, PUSH SIDE
*48" MIN WHERE CLOSER IS PROVIDED



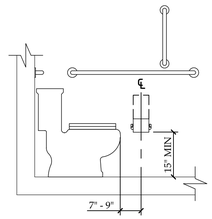
FORWARD APPROACH
DRINKING FOUNTAIN SPOUT LOCATION



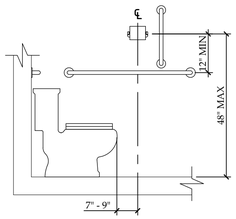
WATER CLOSET LOCATION



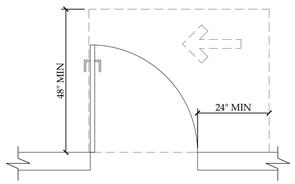
HEIGHT OF WATER CLOSET



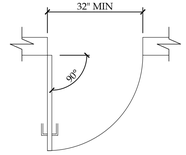
DISPENSER BELOW GRAB BAR



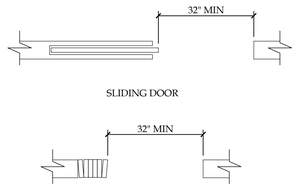
DISPENSER ABOVE GRAB BAR



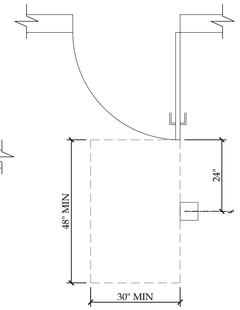
LATCH APPROACH, PULL SIDE



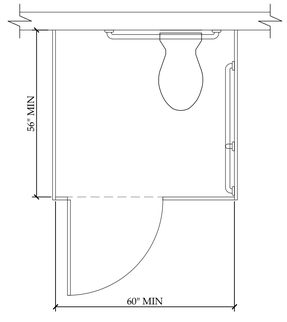
HINGED DOOR



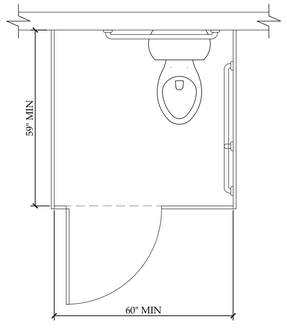
FOLDING DOOR



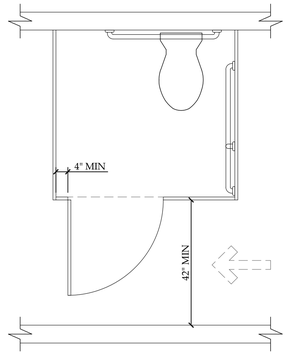
HANDICAP DOOR OPENER



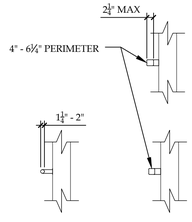
WALL-HUNG WATER CLOSET



FLOOR-MOUNTED WATER CLOSET

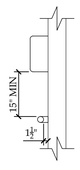


WATER CLOSET APPROACH

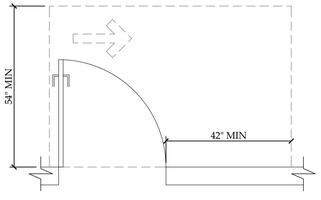


CIRCULAR NON-CIRCULAR

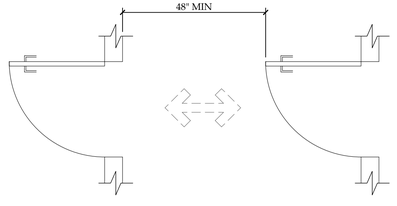
SIZE OF GRAB BARS



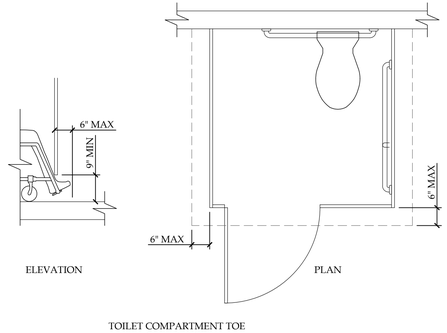
SPACING OF GRAB BARS



HINGE APPROACH, PULL SIDE

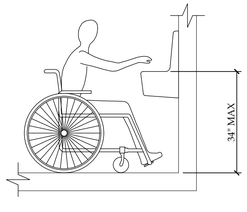


TWO DOORS IN SERIES

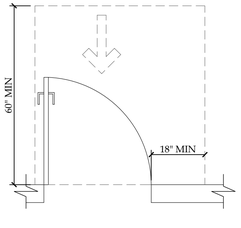


ELEVATION PLAN

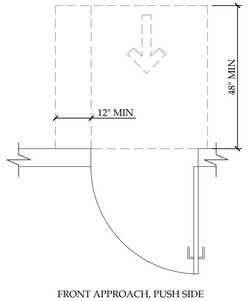
TOILET COMPARTMENT TOE CLEARANCE



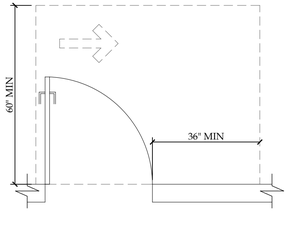
HEIGHT OF LAVATORIES & SINKS



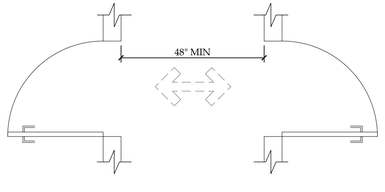
FRONT APPROACH, PULL SIDE



FRONT APPROACH, PUSH SIDE
*WHERE BOTH CLOSER & LATCH ARE PROVIDED



HINGE APPROACH, PULL SIDE



TWO DOORS IN SERIES

Bryant & Stratton
180 Redtail
Orchard Park NY

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2017-11-06: BID/PERMIT SET

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JOB CAPT. S.Hunt
PRINCIPAL P.Silvestri
DRAFTER _____
INTERIORS N.Catuzza

SEAL:

TITLE:

ADA NOTES & DETAILS

SILVESTRI ARCHITECTS · PC
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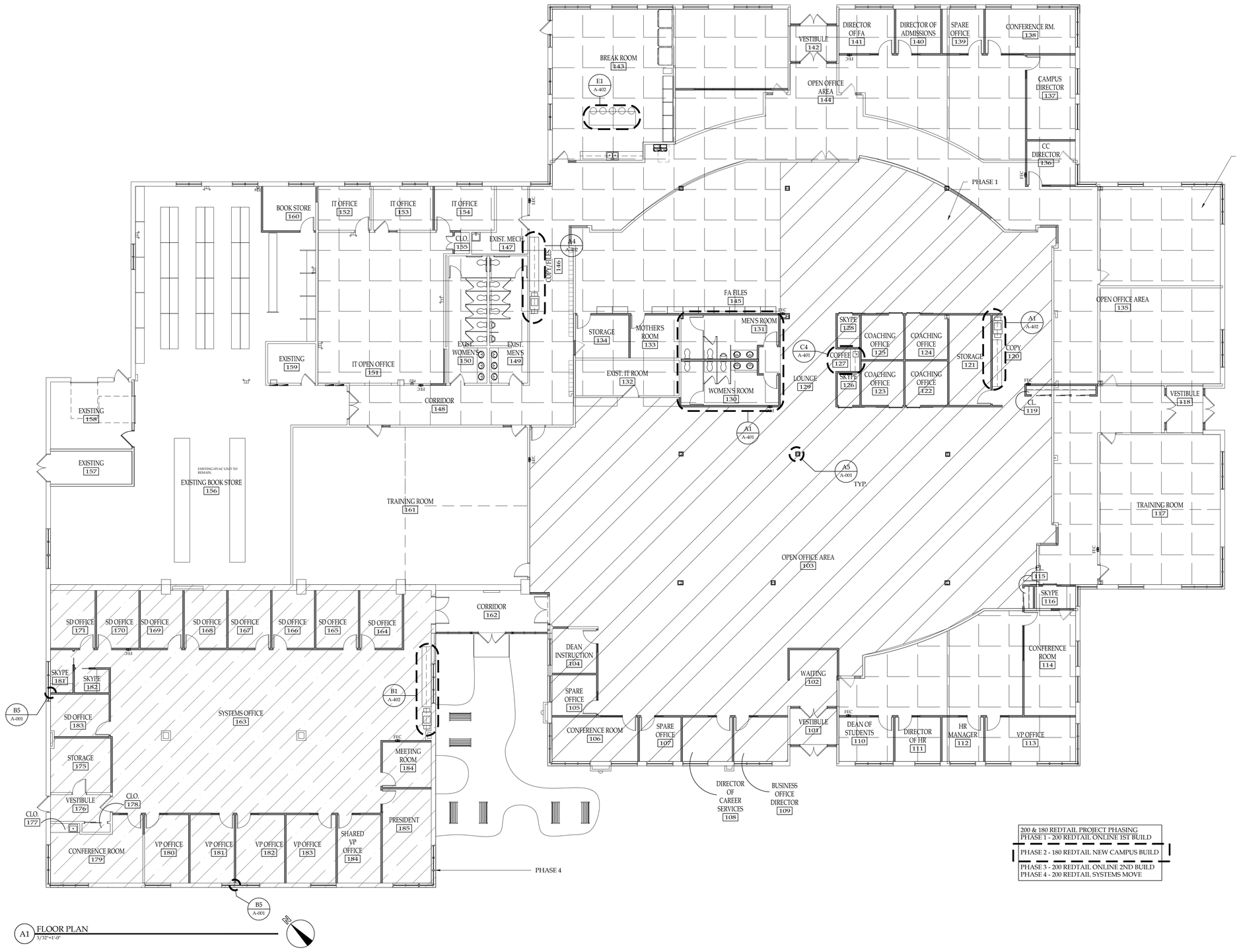
AMHERST, NY 14221 FAX 716.691.4773

SA JOB #: 17033.02
DATE: 11-06-2017

DRAWING #: A-004



A1 FLOOR PLAN
3/32"=1'-0"

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180 Redtail

Orchard Park NY

ISSUE:
2017-11-06: BID/PERMIT SET

SA PROJECT TEAM: PRINCIPAL P.Silvestri
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JOB CAPT. S.Hunt INTERIORS N.Catuzza

SEAL:

TITLE:

PHASING PLAN

SILVESTRI
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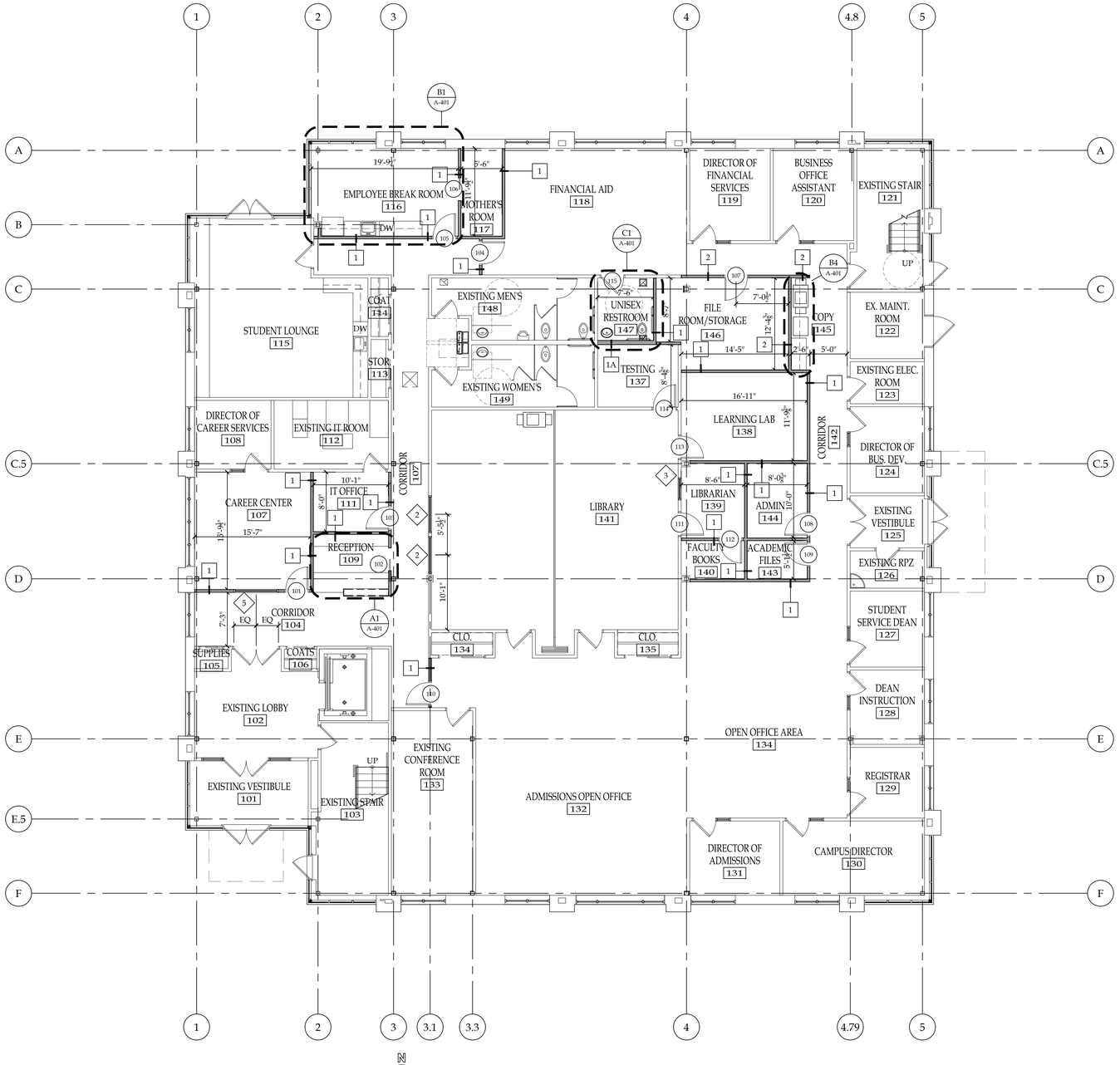
SA JOB #: 17033.02

DATE: 11-06-2017

DRAWING #: A-100



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SA PROJECT TEAM: PRINCIPAL P.Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. S.Hunt INTERIORS N.Catuzza

SEAL:

TITLE:

FIRST FLOOR PLAN

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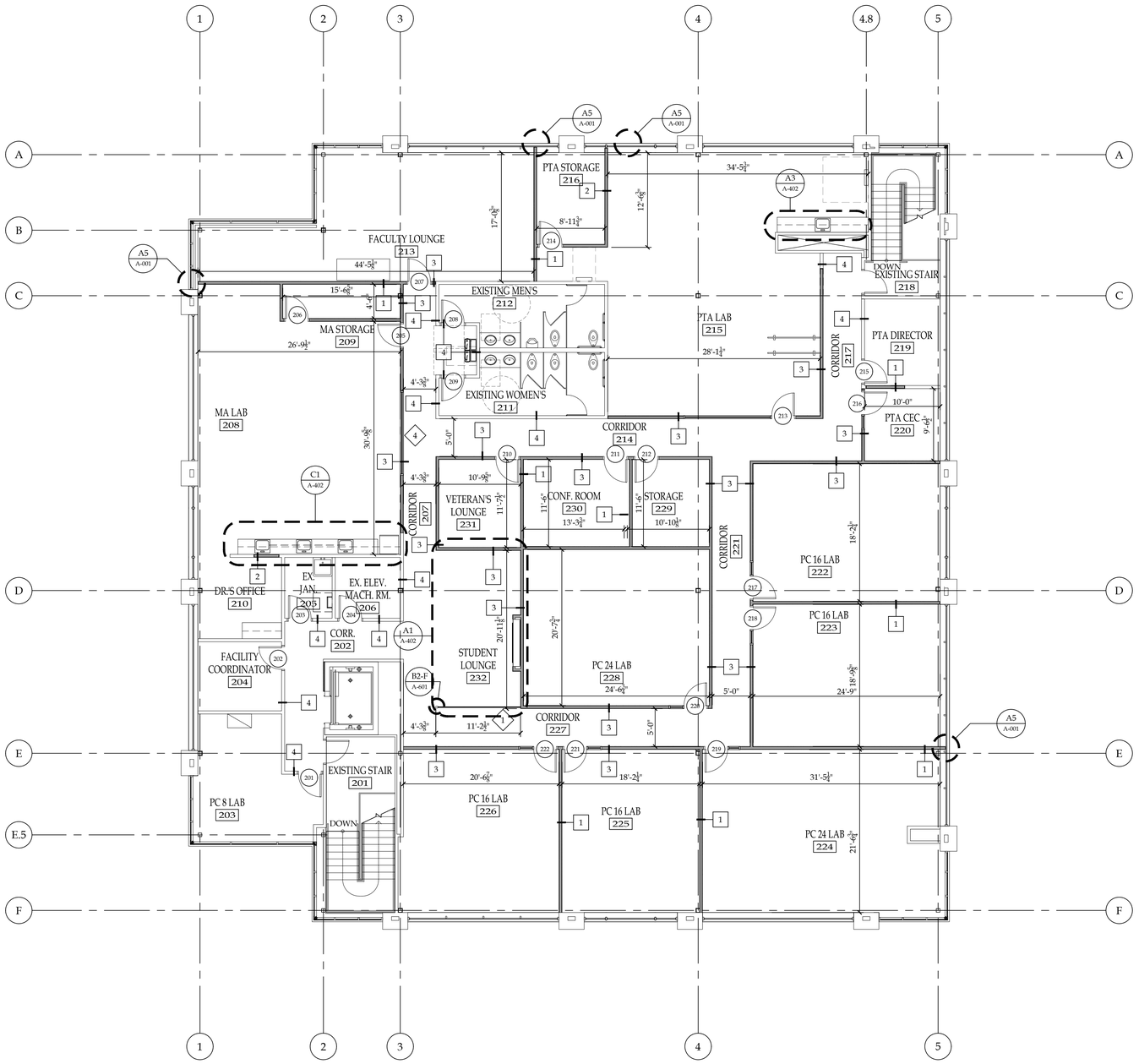
SA JOB #: 17033.02

DATE: 11-06-2017

DRAWING #: A-101



A1 SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"

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SA PROJECT TEAM:
PROJ. ARCH. _____
JOB CAPT. S.Hunt
PRINCIPAL P.Silvestri
DRAFTER _____
INTERIORS N.Catuzza

SEAL:

TITLE:

SECOND FLOOR PLAN

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SA JOB #: 17033.02

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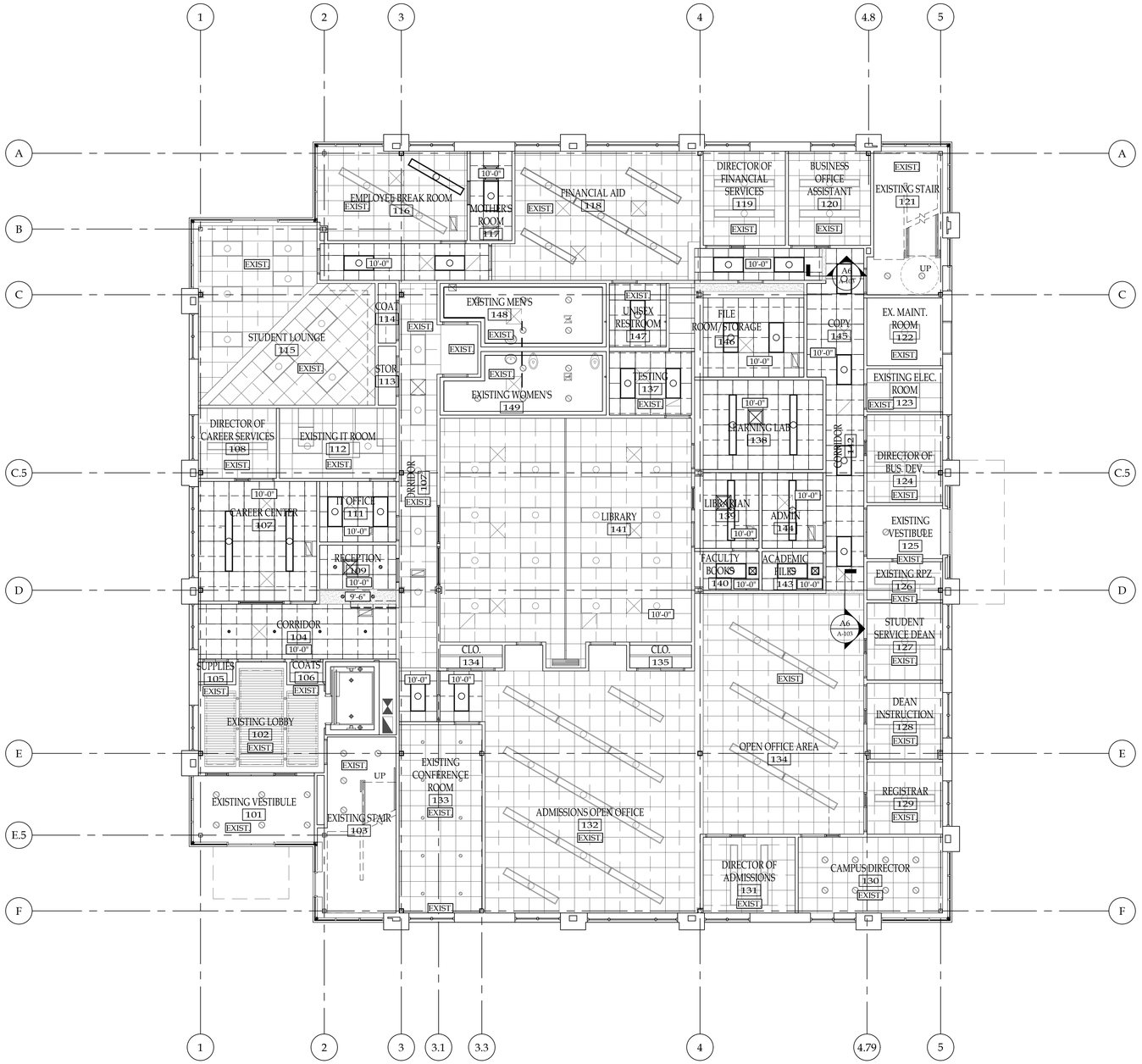
DRAWING #: A-102



A1 FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

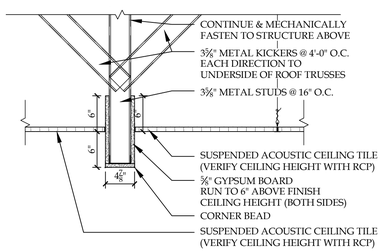
N

REFLECTED CEILING PLAN SYMBOL LEGEND

- 11'-0" — FINISHED CEILING HEIGHT (ABOVE FLOOR)
- 2' X 4' SUSPENDED ACOUSTIC CEILING, SECOND LOOK
- PAINTED GYPSUM BOARD CEILING
- 2' X 4' LIGHT FIXTURE
- 2' X 2' LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- 6" RECESSED CAN LIGHT
- PENDANT MOUNT LIGHT FIXTURE
- 4' PENDANT UP LIGHT TO MATCH EXISTING
- EXIT SIGN W/90 MIN. BATTERY BACKUP
- EMERGENCY LIGHT FIXTURE W/ 90 MIN. BATTERY BACKUP
- SUPPLY / RETURN DIFFUSER

GENERAL NOTES:

- CONTRACTOR SHALL CONFIRM ALL CEILING FIXTURES, DIFFUSERS, LIGHTING, ETC., WITH MECHANICAL & ELECTRICAL DRAWINGS.
- COORDINATE WITH MEP DRAWINGS FOR LOCATION OF ALL LIGHTING, ELECTRICAL, & HVAC FIXTURES/DIFFUSERS.
- CENTER CEILING GRID WITHIN ROOM OR WITHIN SPACE, UNO.
- CENTER ALL DEVICES (I.E. LIGHTS, SPRINKLER HEADS, ETC.) IN THE CEILING TILE THAT THEY PENETRATE.
- HVAC FIXTURES/DIFFUSERS TO BE PAINTED TO MATCH SURROUNDING MATERIAL.
- REUSE EXISTING LIGHTING WHERE POSSIBLE. CONTRACTOR TO INVENTORY ALL SALVAGEABLE ITEMS THAT ARE APPROPRIATE FOR RE-INSTALLATION PRIOR TO ORDERING NEW MATERIALS.



A6 CEILING SOFFIT DETAIL
1"=1'-0"

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JOB CAPT. S.Hunt INTERIORS N.Catuzza

SEAL:

TITLE:
FIRST FLOOR REFLECTED CEILING PLAN

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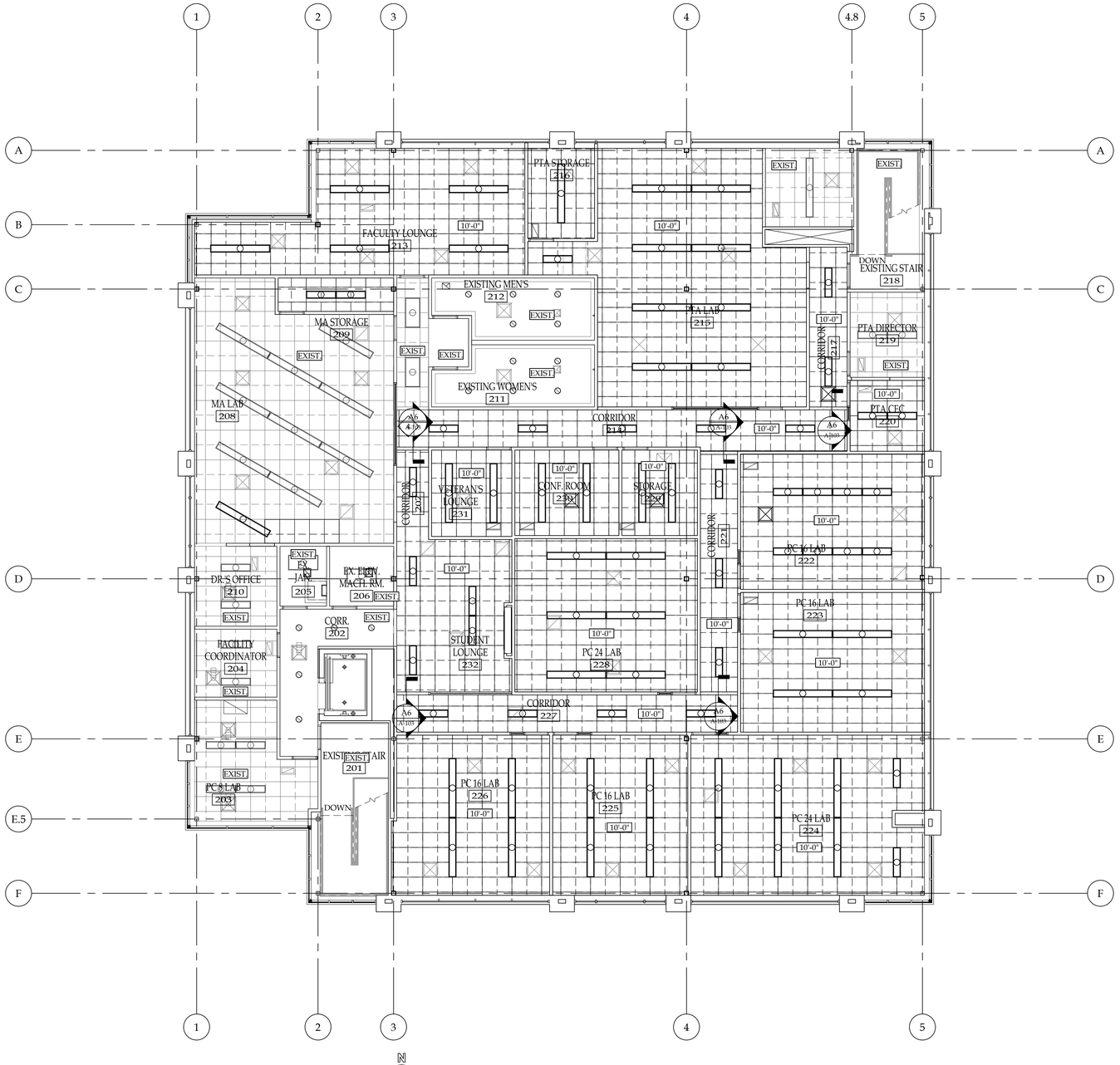
SA JOB #: 17033.02
DATE: 11-06-2017

DRAWING #: A-103



A1 SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

REFLECTED CEILING PLAN SYMBOL LEGEND

- 11'-0" — FINISHED CEILING HEIGHT (ABOVE FLOOR)
- 2' X 4' SUSPENDED ACOUSTIC CEILING, SECOND LOOK
- PAINTED GYPSUM BOARD CEILING
- 2' X 4' LIGHT FIXTURE
- 2' X 2' LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- 6" RECESSED CAN LIGHT
- PENDANT MOUNT LIGHT FIXTURE
- 4' PENDANT UP LIGHT TO MATCH EXISTING
- EXIT SIGN W/90 MIN. BATTERY BACKUP
- EMERGENCY LIGHT FIXTURE W/ 90 MIN. BATTERY BACKUP
- SUPPLY / RETURN DIFFUSER

GENERAL NOTES:

- CONTRACTOR SHALL CONFIRM ALL CEILING FIXTURES, DIFFUSERS, LIGHTING, ETC., WITH MECHANICAL & ELECTRICAL DRAWINGS.
- COORDINATE WITH MEP DRAWINGS FOR LOCATION OF ALL LIGHTING, ELECTRICAL, & HVAC FIXTURES/DIFFUSERS.
- CENTER CEILING GRID WITHIN ROOM OR WITHIN SPACE, UNO.
- CENTER ALL DEVICES (I.E. LIGHTS, SPRINKLER HEADS, ETC.) IN THE CEILING TILE THAT THEY PENETRATE.
- HVAC FIXTURES/DIFFUSERS TO BE PAINTED TO MATCH SURROUNDING MATERIAL.
- REUSE EXISTING LIGHTING WHERE POSSIBLE. CONTRACTOR TO INVENTORY ALL SALVAGEABLE ITEMS THAT ARE APPROPRIATE FOR RE-INSTALLATION PRIOR TO ORDERING NEW MATERIALS.

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SEAL:

TITLE:

SECOND FLOOR REFLECTED CEILING PLAN

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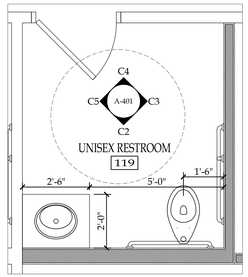
SA JOB #: 17033.02

DATE: 11-06-2017

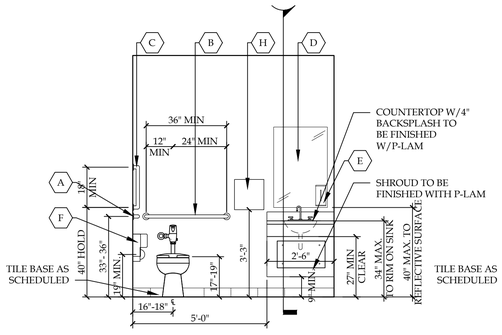
DRAWING #: A-104

ACCESSORIES SCHEDULE

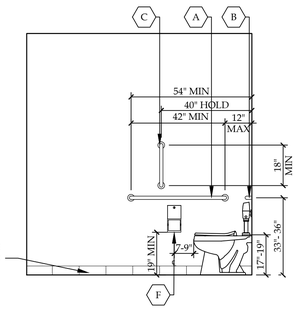
MARK	ITEM	MODEL #	SUPPLIER	BACKUP SUPPORT	LOCATION/NOTES
A	42" HORIZONTAL GRAB BAR	B-6806x42	BOBRICK WASHROOM EQUIPMENT, INC	PER MANUFACTURER'S REQUIREMENTS	SEE DRAWING
B	36" HORIZONTAL GRAB BAR	B-6806x36	BOBRICK WASHROOM EQUIPMENT, INC	PER MANUFACTURER'S REQUIREMENTS	SEE DRAWING
C	18" VERTICAL GRAB BAR	B-6806x18	BOBRICK WASHROOM EQUIPMENT, INC	PER MANUFACTURER'S REQUIREMENTS	SEE DRAWING
D	STAINLESS STEEL CHAN-LOK - PLATE GLASS MIRROR - 24"x36"	0620 - 24"X36"	AMERICAN SPECIALITIES, INC.	PER MANUFACTURER'S REQUIREMENTS	SPACERS TO BE USED BEHIND MIRROR FOR LEVEL APPLICATION. MIRRORS TO BE MOUNTED ON STAND STAINLESS STEEL STAND OFFS.
E	SURFACE MOUNTED AUTOMATIC HAND SOAP DISPENSER	0360	AMERICAN SPECIALITIES, INC.	PER MANUFACTURER'S REQUIREMENTS	SEE DRAWING. OPERABLE POINT LOCATED NO HIGHER THAN 48" AFF. COLOR: STAINLESS
F	SURFACE MOUNTED TOILET TISSUE DISPENSER	20030	AMERICAN SPECIALITIES, INC.	PER MANUFACTURER'S REQUIREMENTS	SEE DRAWING
G	STAINLESS STEEL SURFACE MOUNTED COAT HOOK/DOOR STOP	0714	AMERICAN SPECIALITIES, INC.	PER MANUFACTURER'S REQUIREMENTS	BACK OF RESTROOM DOOR
H	AUTOMATIC PAPER TOWEL DISPENSER	59437	GEORGIA PACIFIC PROFESSIONAL	PER MANUFACTURER'S REQUIREMENTS	SEE DRAWING. COLOR: TRANSLUCENT WHITE



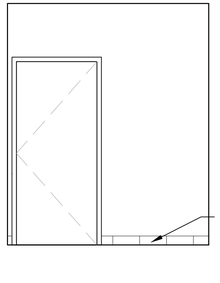
C1 ENLARGED PLAN - UNISEX RESTROOM #119
SCALE: 3/8"=1'-0"



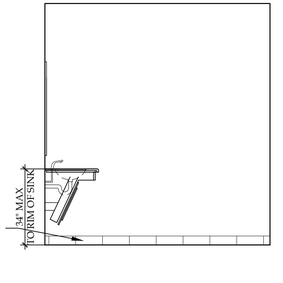
C2 ELEVATION - UNISEX RESTROOM #119
SCALE: 3/8"=1'-0"



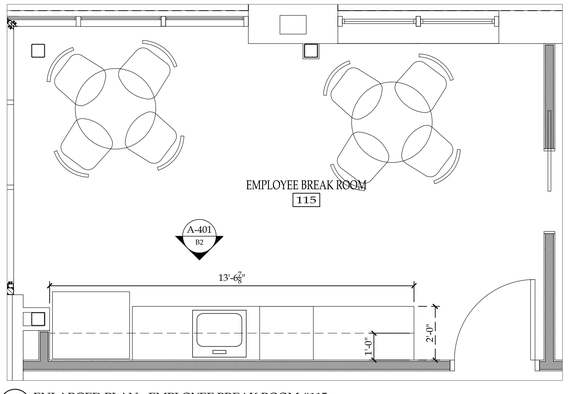
C3 ELEVATION - UNISEX RESTROOM #119
SCALE: 3/8"=1'-0"



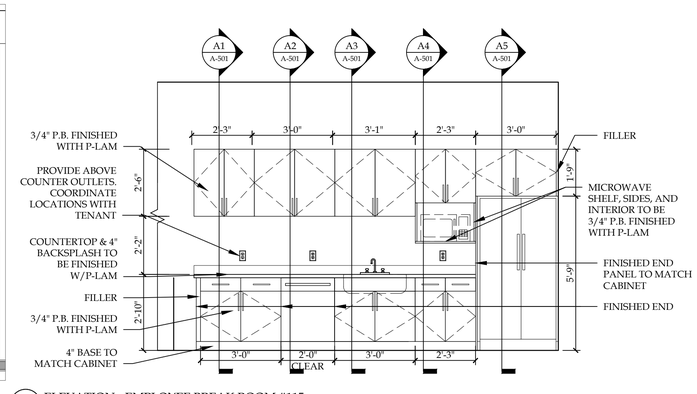
C4 ELEVATION - UNISEX RESTROOM #119
SCALE: 3/8"=1'-0"



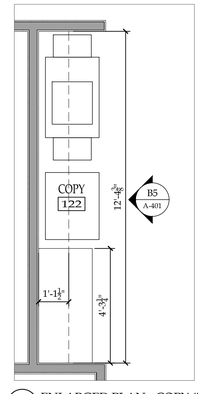
C5 ELEVATION - UNISEX RESTROOM #119
SCALE: 3/8"=1'-0"



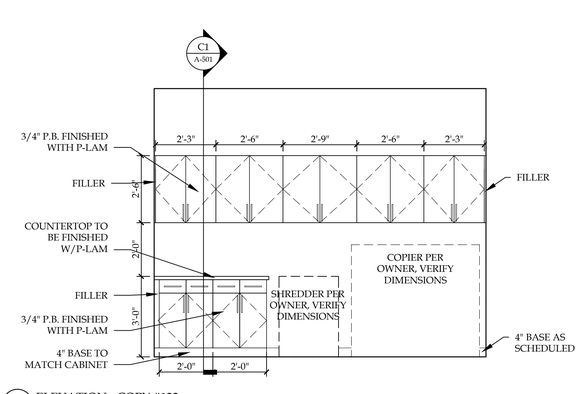
B1 ENLARGED PLAN - EMPLOYEE BREAK ROOM #115
SCALE: 3/8"=1'-0"



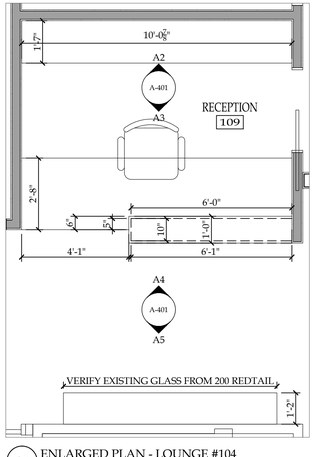
B2 ELEVATION - EMPLOYEE BREAK ROOM #115
SCALE: 3/8"=1'-0"



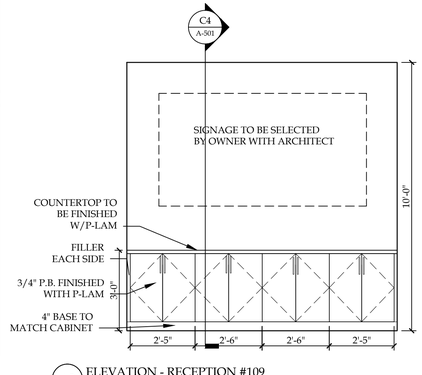
B4 ENLARGED PLAN - COPY #122
SCALE: 3/8"=1'-0"



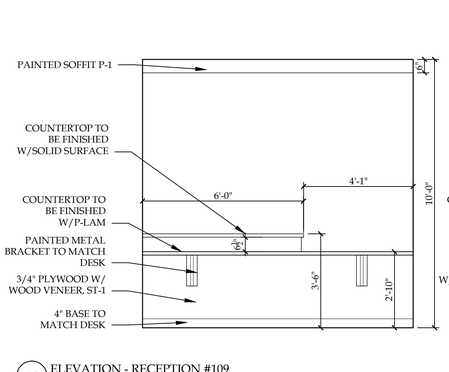
B5 ELEVATION - COPY #122
SCALE: 3/8"=1'-0"



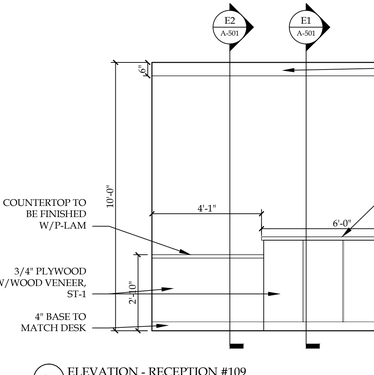
A1 ENLARGED PLAN - LOUNGE #104
SCALE: 3/8"=1'-0"



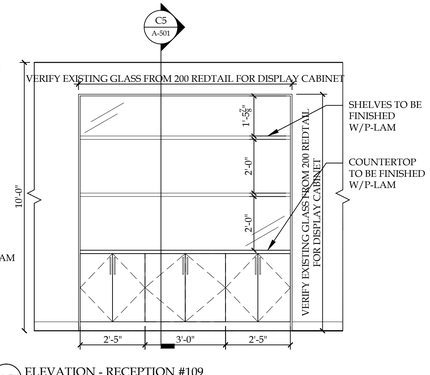
A2 ELEVATION - RECEPTION #109
SCALE: 3/8"=1'-0"



A3 ELEVATION - RECEPTION #109
SCALE: 3/8"=1'-0"



A4 ELEVATION - RECEPTION #109
SCALE: 3/8"=1'-0"



A5 ELEVATION - RECEPTION #109
SCALE: 3/8"=1'-0"

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SEAL:

TITLE:

ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS

SILVESTRI ARCHITECTS · PC

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SA JOB #: 17033.02

DATE: 11-06-2017

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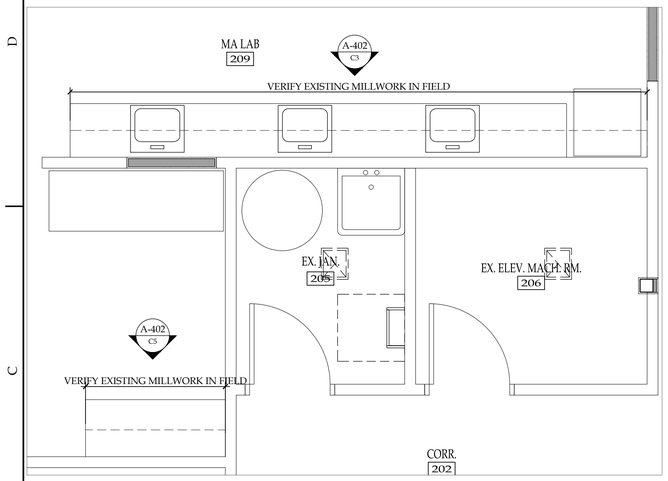
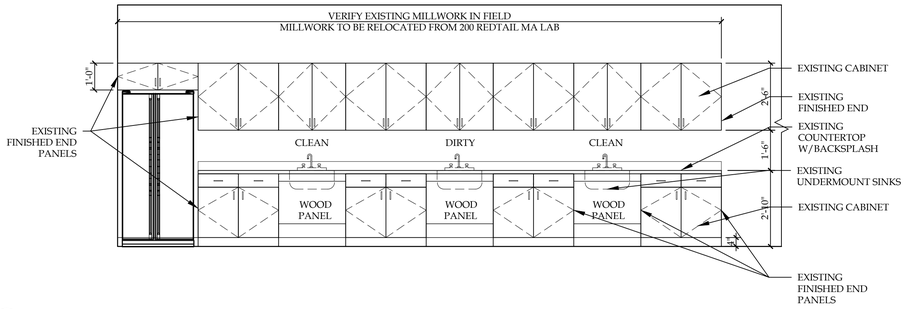
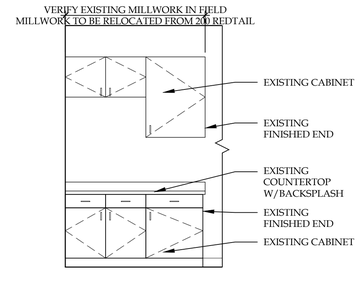


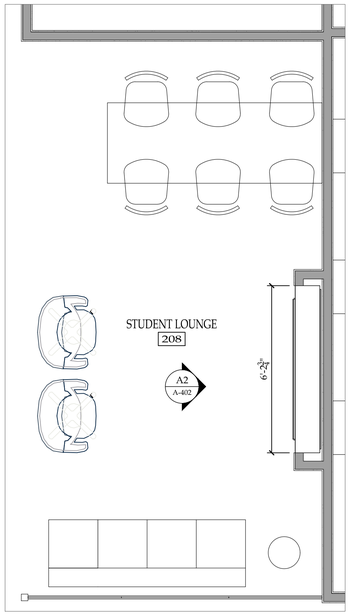
C1 ENLARGED PLAN - MA LAB #209
SCALE: 3/8"=1'-0"



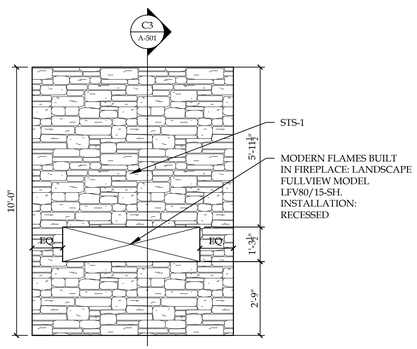
C3 ELEVATION - MA LAB #209
SCALE: 3/8"=1'-0"



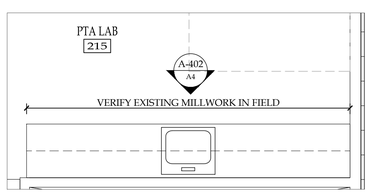
C5 ELEVATION - MA LAB #209
SCALE: 3/8"=1'-0"



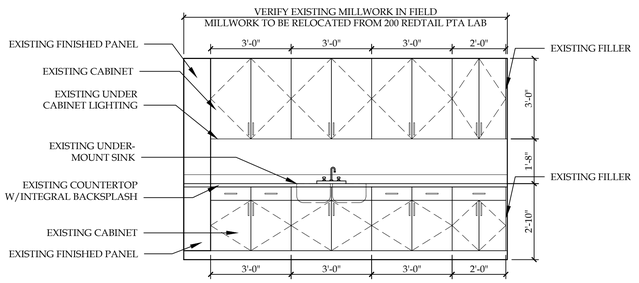
A1 ENLARGED PLAN - STUDENT LOUNGE #208
SCALE: 3/8"=1'-0"



A2 ELEVATION - STUDENT LOUNGE #208
SCALE: 3/8"=1'-0"



A3 ENLARGED PLAN - PTA LAB #215
SCALE: 3/8"=1'-0"



A4 ELEVATION - PTA LAB #215
SCALE: 3/8"=1'-0"

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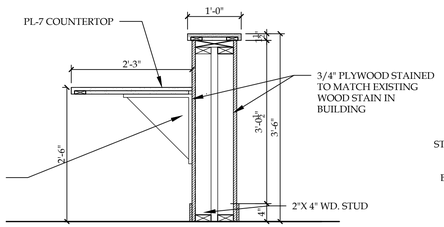
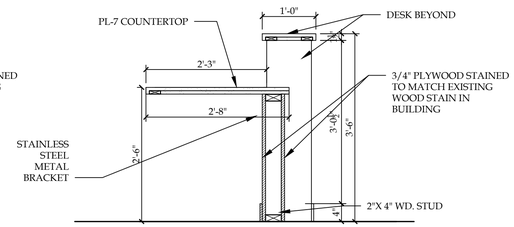
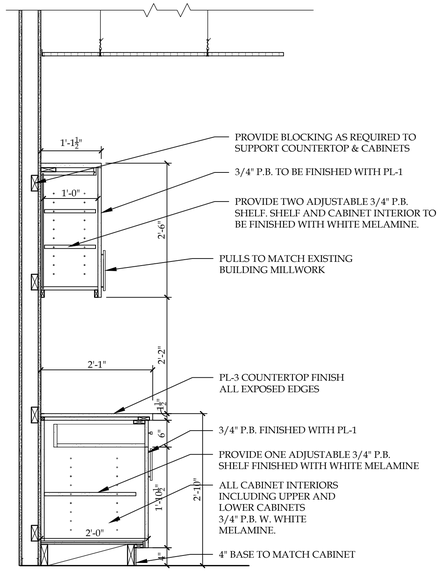


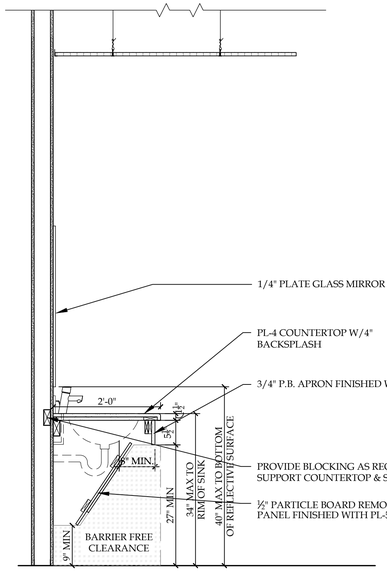
E1 SECTION - RECEPTION
SCALE: 3/4"=1'-0"



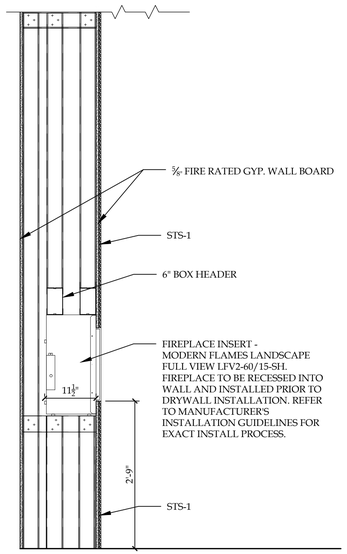
E2 SECTION - RECEPTION
SCALE: 3/4"=1'-0"



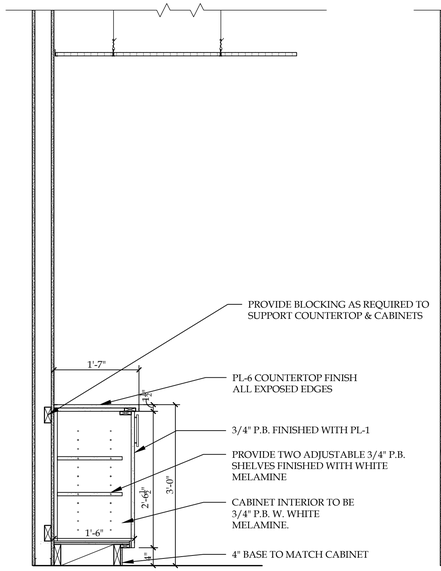
C1 SECTION - COPY
SCALE: 3/4"=1'-0"



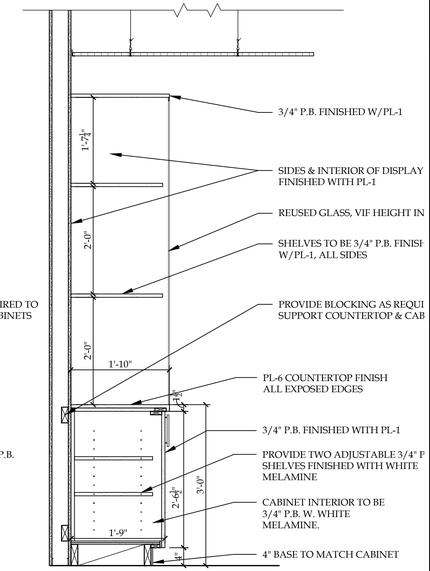
C2 SECTION - RESTROOMS
SCALE: 3/4"=1'-0"



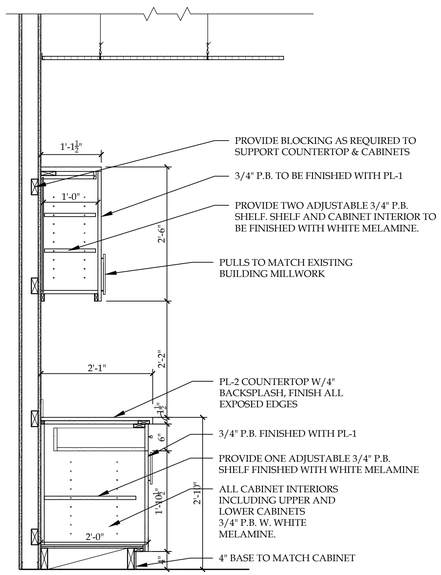
C3 SECTION - FIREPLACE
SCALE: 3/4"=1'-0"



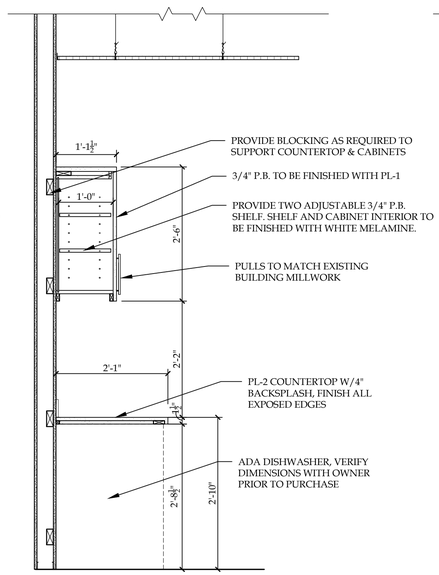
C4 SECTION - RECEPTION
SCALE: 3/4"=1'-0"



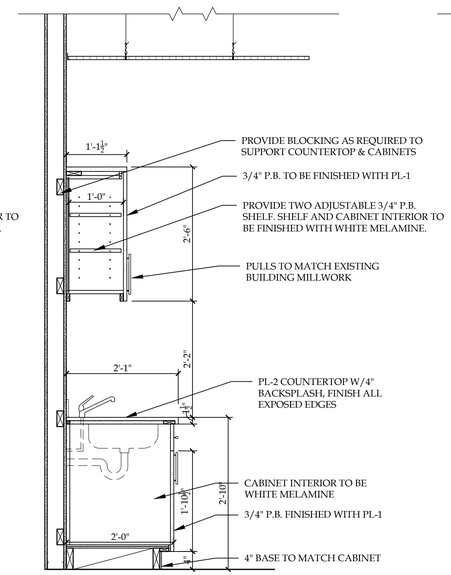
C5 SECTION - RECEPTION
SCALE: 3/4"=1'-0"



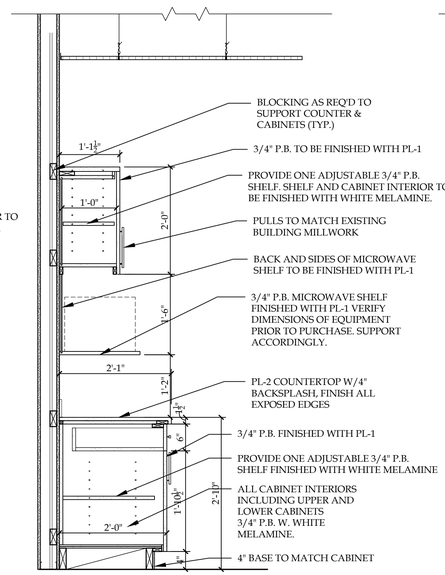
A1 SECTION - BREAK ROOM
SCALE: 3/4"=1'-0"



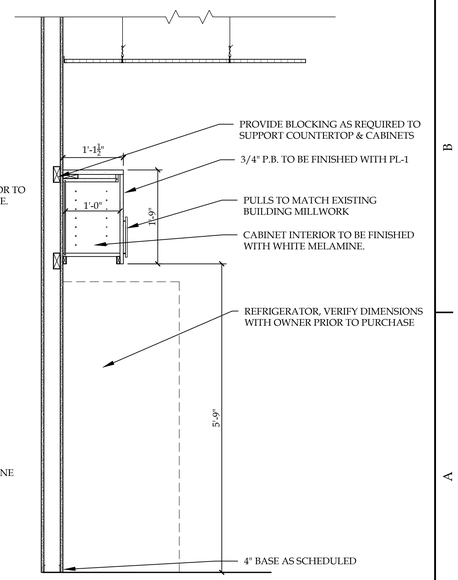
A2 SECTION - BREAK ROOM
SCALE: 3/4"=1'-0"



A3 SECTION - BREAK ROOM
SCALE: 3/4"=1'-0"



A4 SECTION - BREAK ROOM
SCALE: 3/4"=1'-0"



A5 SECTION - BREAK ROOM
SCALE: 3/4"=1'-0"

Bryant & Stratton
180 Redtail
Orchard Park NY

ISSUE:
2017-11-06: BID/PERMIT SET

SA PROJECT TEAM:
PROJ. ARCH. _____
JOB CAPT. S.Hunt
PRINCIPAL P.Silvestri
DRAFTER _____
INTERIORS N.Catuzza

SEAL:

TITLE:
MILLWORK DETAILS

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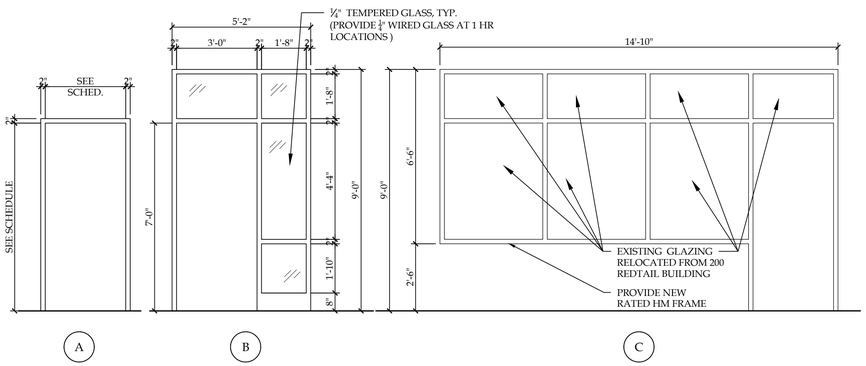
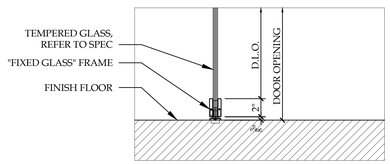
SA JOB #: 17033.02
DATE: 11-06-2017

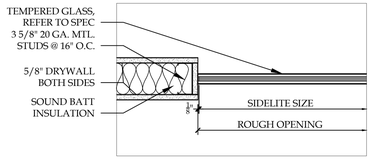
DRAWING #: A-501



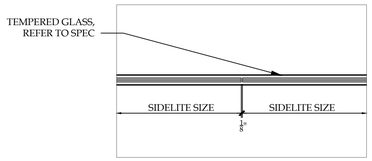
D1 FRAME TYPES
3/8" = 1'-0"



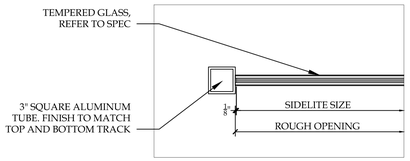
C SILL @ FIXED GLASS PARTITION (FLOOR MOUNTED)



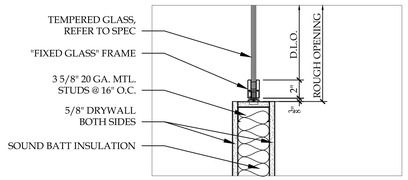
B JAMB @ FIXED GLASS PARTITION



A BUTT GLAZING @ FIXED GLASS PARTITION

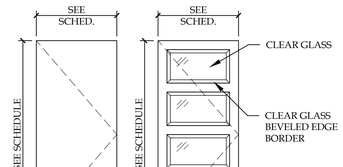


F JAMB @ ALUMINUM TUBE



E SILL @ FIXED GLASS PARTITION (WALL MOUNTED)

D HEAD @ FIXED GLASS PARTITION

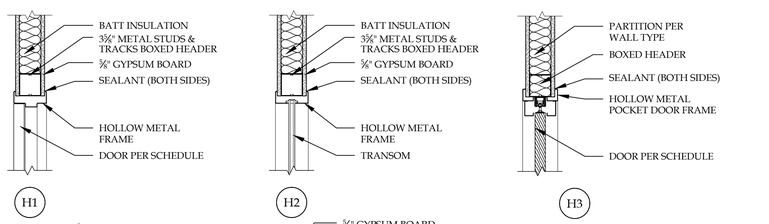


F FLUSH DOOR

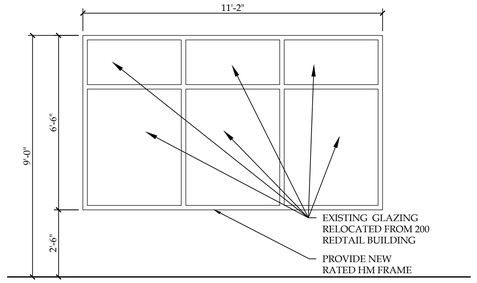
P4G 4 PANEL DOOR
W/ GLASS PANELS

C3 DOOR TYPES
3/8" = 1'-0"

B2 WINDOW TYPES
3/8" = 1'-0"



A1 HEAD & JAMB DETAILS
1" = 1'-0"



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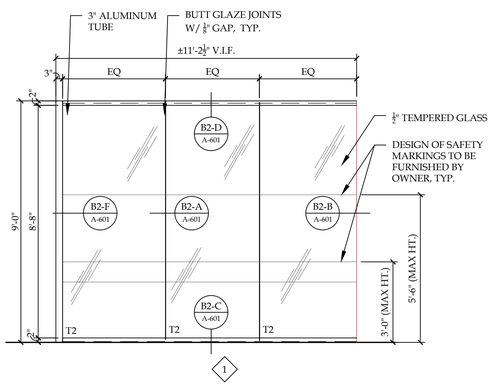
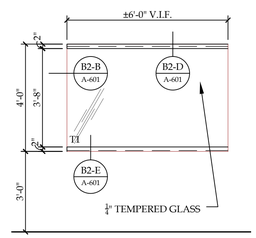


1

A2 WINDOW TYPES
3/8" = 1'-0"



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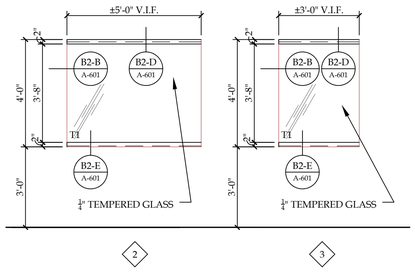

2

3

NOTE:

* REUSE SALVAGED DOORS AND HARDWARE @ NON-RATED LOCATIONS ONLY, WHERE POSSIBLE. VERIFY ALL EXISTING DOOR SWINGS AND HARDWARE, PROVIDE NEW AS REQUIRED. NEW DOORS TO BE FINISHED TO MATCH EXISTING.

MATERIAL LEGEND:

ALUM	= ALUMINUM
HM	= HOLLOW METAL
MTL	= METAL
SCWD	= SOLID CORE WOOD
T1	= ¼" TEMPERED GLAZING
T2	= ½" TEMPERED GLAZING
W	= WIRED GLASS

HARDWARE SCHEDULE

* PROVIDE SOLID WOOD BLOCKING AT ALL WALL STOPS
* ALL HARDWARE TO BE ADA COMPLIANT

HARDWARE SET #1:
3 - HINGES
1 - CLASSROOM LOCKSET
1 - WALL STOP
3 - SILENCERS

HARDWARE SET #2:
3 - HINGES
1 - ELECTRIC STRIKE
1 - CLASSROOM LOCKET
1 - WALL STOP
1 - CLOSER
3 - SILENCERS
KEY FOB READER, MUST DISENGAGE WITH FIRE ALARM

HARDWARE SET #3:
3 - HINGES
1 - OFFICE/ENTRY LOCKSET
1 - WALL STOP
3 - SILENCERS

HARDWARE SET #4:
3 - HINGES
* REUSE EXISTING LOCKSET
1 - SMOKE SEAL
1 - CLOSER
3 - SILENCERS

HARDWARE SET #5:
3 - HINGES
1 - CLASSROOM LOCKSET
1 - SMOKE SEAL
1 - CLOSER
1 - WALL STOP
3 - SILENCERS

HARDWARE SET #6:
3 - HINGES
1 - PASSAGE SET
1 - SMOKE SEAL
1 - CLOSER
1 - WALL STOP
3 - SILENCERS

DOOR AND FRAME SCHEDULE

DOOR NO.	DOORS						FRAMES				FIRE RATING	HDW	REMARKS
	SIZE			DOOR TYPE	MAT'L	GLAZING	MAT'L	FRAME TYPE	DETAILS			SET #	
	WIDTH	HEIGHT	THK						HEAD	JAMB			
101	3'-0"	7'-0"	1¾"	F	P4G	-	HM	A	H1	J1		1	
102	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H3	J3		-	
103	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1		3	
104	3'-0"	7'-0"	1¾"	P4G	SCWD	-	HM	A	H1	J1		2	
105	4'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1		1	
106	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H3	J3		-	PRIVACY LOCK
107	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1		1	
108	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1		3	
109	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1		1	
110	3'-0"	7'-0"	1¾"	P4G	SCWD	-	HM	A	H1	J1		2	
111	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1		3	
112	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1		1	
113	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1		1	
114	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1		1	
115	EXIST.											REMAKS	PRIVACY LOCKET
201	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1	45 MIN	4	NEW RATED DOOR IN EXISTING OPENING
202	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1	45 MIN	4	NEW RATED DOOR IN EXISTING OPENING
203	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1	45 MIN	4	NEW RATED DOOR IN EXISTING OPENING
204	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1	45 MIN	4	NEW RATED DOOR IN EXISTING OPENING
205	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1	45 MIN	5	
206	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1		1	
207	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1	45 MIN	5	
208	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1		6	NEW RATED DOOR IN EXISTING OPENING
209	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1		6	NEW RATED DOOR IN EXISTING OPENING
210	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1	45 MIN	5	
211	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1	45 MIN	5	
212	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1	45 MIN	5	
213	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	D	H1	J1	45 MIN.	5	RELOCATED EXIST. GLAZING
214	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1		1	
215	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1	45 MIN	5	
216	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	A	H1	J1	45 MIN	5	
217	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	B	H2	J1/J2	45 MIN	5	
218	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	B	H1	J1/J2	45 MIN	5	
219	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	B	H1	J1/J2	45 MIN	5	
220	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	B	H1	J1/J2	45 MIN	5	
221	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	B	H1	J1/J2	45 MIN	5	
222	3'-0"	7'-0"	1¾"	F	SCWD	-	HM	B	H1	J1/J2	45 MIN	5	

Bryant & Stratton

180 Redtail

Orchard Park NY

ISSUE:
2017-11-06: BID/PERMIT SET

SA PROJECT TEAM: PRINCIPAL P.Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. S.Hunt INTERIORS N.Catuzza

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SA JOB #: 17033.02

DATE: 11-06-2017

DRAWING #: A-601

TITLE:

DOOR SCHEDULE AND DETAILS

FINISH SELECTIONS

CARPET (CPT-X):

(CPT-1) (TYPICAL)
MANUFACTURER: INTERFACE
STYLE: LA PAZ
COLOR: JALAPENO
NOTE: USE THIS EXISTING CARPET TILE WHERE CPT-1 IS SPECIFIED

(CPT-2) (ACCENT)
MANUFACTURER: INTERFACE
STYLE: CORDOBA COLORES
COLOR: JALAPENO
NOTE: USE THIS EXISTING CPT TILE WHERE CPT-2 IS SPECIFIED

(CPT-3) (ACCENT)
MANUFACTURER: INTERFACE
STYLE: VIVA COLORES
COLOR: VERDE PRIMAVERA
NOTE: USE THIS EXISTING CARPET TILE WHERE CPT-3 IS SPECIFIED

(CPT-4) (ACCENT)
MANUFACTURER: INTERFACE
STYLE: VIVA COLORES
COLOR: VERDE BOTELLA
NOTE: USE THIS EXISTING CARPET TILE WHERE CPT-4 IS SPECIFIED

(CPT-5) (ACCENT)
MANUFACTURER: INTERFACE
STYLE: VIVA COLORES
COLOR: PANTANO
NOTE: USE THIS EXISTING CARPET TILE WHERE CPT-5 IS SPECIFIED

(CPT-6) (ACCENT)
MANUFACTURER: INTERFACE
STYLE: VIVA COLORES
COLOR: CANELA
NOTE: USE THIS EXISTING CARPET TILE WHERE CPT-6 IS SPECIFIED

TILE (T-X):

(T-1) (BREAK ROOM, MATCH EXISTING)
MANUFACTURER: OLYMPIA TILE
DISTRIBUTOR: DOBKIN TILE
STYLE: TROPICAL GRASS
COLOR: TAUPE
SIZE: 6"X24"
INSTALLATION: MATCH EXISTING
GROUT: LATICRETE 35 MOCHA
NOTE: REPLACE CRACKED TILE W/T-1

(T-2) (RESTROOMS, MATCH EXISTING)
MANUFACTURER: OLYMPIA TILE
DISTRIBUTOR: DOBKIN TILE
STYLE: TROPICAL GRASS
COLOR: TAUPE
SIZE: 12"X24"
INSTALLATION: MATCH EXISTING
GROUT: LATICRETE 35 MOCHA
NOTE: REPLACE CRACKED TILE W/T-2

LUXURY VINYL TILE (LVT-X):

(LVT-1)
MANUFACTURER: SHAW CONTRACT GROUP
STYLE: GRAIN
COLOR: ANTLER 64761
SIZE: 7"X48"
INSTALLATION: VERTICAL ASHLAR
NOTE: CONTACT LYNDSEY POMPEII FOR PRICING 315-777-7843

(LVT-2)
MANUFACTURER: SHAW CONTRACT GROUP
STYLE: GRAIN
COLOR: CHICORY 64752
SIZE: 7"X48"
INSTALLATION: VERTICAL ASHLAR
NOTE: CONTACT LYNDSEY POMPEII FOR PRICING 315-777-7843

(LVT-3)
MANUFACTURER: SHAW CONTRACT GROUP
STYLE: PIGMENT
COLOR: GREEN 65326
SIZE: 7"X48"
INSTALLATION: VERTICAL ASHLAR
NOTE: CONTACT LYNDSEY POMPEII FOR PRICING 315-777-7843

VINYL COMPOSITION TILE (VCT-X):

(VCT-1) (TYPICAL)
MANUFACTURER: JOHNSONITE
STYLE: AZROCK VCT
COLOR: SOGGY BOTTOM V-230
SIZE: 12" X 12"

RUBBER BASE (RB-X):

(RB-1) (TYPICAL)
MANUFACTURER: MANNINGTON
STYLE: SYNC
COLOR: 911 SABLE

FINISH SELECTIONS

PAINT (P-X):

(P-1) (TYPICAL)
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6150 UNIVERSAL KHAKI
FINISH: EGGSHELL

(P-2) (TRIM)
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6152 SUPERIOR BRONZE
FINISH: SEMI-GLOSS

(P-3) (ACCENT COLOR)
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6096 JUTE BROWN
FINISH: EGGSHELL

(P-4) (ACCENT COLOR)
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6144 DAPPER TAN
FINISH: EGGSHELL

(P-5) (ACCENT COLOR)
MANUFACTURER: SHERWIN WILLIAMS
COLOR: VERDANT SW6713
FINISH: EGGSHELL

PLASTIC LAMINATE (PL-X):

(PL-1) (TYPICAL)
MANUFACTURER: FORMICA
COLOR: WENGE STRAND 6306-58
FINISH: MATTE

(PL-2) (BREAK ROOM COUNTERTOP)
MANUFACTURER: FORMICA
COLOR: EARTHEN WRAP 5880-58
FINISH: MATTE

(PL-3) (TYPICAL COUNTERTOP)
MANUFACTURER: WILSONART
COLOR: ANTIQUE BRUSH 4823-60
FINISH: MATTE

(PL-4) (RESTROOM COUNTER)
MANUFACTURER: NEVAMAR
COLOR: VOUS TEMPEST VS6002T
FINISH: TEXTURED

(PL-5) (RESTROOM SHROUD)
MANUFACTURER: NEVAMAR
COLOR: VANILLA BEAN VS2002T
FINISH: TEXTURED

(PL-6) (RECEPTION COUNTERTOP)
MANUFACTURER: NEVAMAR
COLOR: TBD
FINISH: TEXTURED

(PL-7) (RECEPTION DESK REVEALS)
MANUFACTURER: CHEMETAL
COLOR: SATIN SILVER ALUMINUM 719

SOLID SURFACE (SS-X):

(SS-1)
MANUFACTURER: ZODIAQ -QUARTZ
COLOR: TBD
LOCATION: RECEPTION DESK TRANSACTION

DOORS (WD-X):

(WD-1)
MANUFACTURER: GRAHAM WOOD DOORS ASSA ABLOY
SPECIES: WHITE MAPLE
STAIN: #850- MIDNIGHT
NOTE: NEW DOORS TO BE STAINED TO MATCH EXISTING BUILDING DOORS

STAIN (ST-X):

NOTE: MATCH EXISTING STAIN ON LIBRARY WALL

WOOD VENEER (WV-X):

NOTE: MATCH EXISTING WOOD VENEER ON LIBRARY WALL
STAIN: ST-1

ACOUSTICAL CEILING TILE (ACT-X):

(ACT-1)
MANUFACTURER: USG
PRODUCT: RADAR ILLUSION TWO/24 PANELS
STYLE: 2742
SIZE: 2'X4'
EDGE: SLT
COLOR: WHITE
NOTE: USE ACT-1 IF EXISTING CEILING TILES HAVE ALL BEEN USED

TRANSITION (TS-X):

(TS-1)
(GENERAL)
MANUFACTURER: SCHLUTER SYSTEMS
STYLE & SIZE: RENO-TK SIZE TO BE V.I.F. IN ACCORDANCE WITH MATERIAL(S) THICKNESS
STYLE: CLEAR SATIN ANODIZED ALUMINUM
LOCATION(S): FLOORING MATERIAL CHANGES AS NECESSARY.
NOTE(S): PLEASE SEE GENERAL NOTES RE: TRANSITIONS

STACKED STONE (STS-X):

MANUFACTURER: DUTCH QUALITY
STYLE: WEATHERLEDGE
COLOR: PENNSYLVANIA

GENERAL NOTES

- ANY AND ALL FINISH SELECTIONS/ COLORS MUST BE SUBMITTED TO ARCHITECT FOR APPROVAL ACCOUNTING FOR PROPER LEAD TIME. ANY FINISH THAT IS INSTALLED WITHOUT ARCHITECTS APPROVAL MAY BE REQUIRED TO BE REMOVED AND REPLACED BY THE GENERAL CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ORDER ALL MATERIALS AT THE APPROPRIATE TIME. ANY FEES INCURRED AS A RESULT OF FINISHES NOT BEING ORDERED ON TIME WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ANY DISCREPANCIES BETWEEN ARCHITECTURAL ELEVATION(S), PLAN(S), SCHEDULE(S) AND NOTES MUST BE BROUGHT TO ARCHITECTS ATTENTION. ARCHITECT MUST BE CONTACTED AND GIVE APPROVAL TO MOVE FORWARD WITH SPECIFIC DIRECTION PRIOR TO ANTICIPATED ACTION.
- ALL INTERIOR PRODUCTS TO MEET/EXCEED FLAME SPREAD RATING PER CODE
- ALL FLOOR FINISHES TO EXTEND BENEATH ALL MILLWORK.
- ALL ELECTRICAL PANEL COVERS AND/OR MECHANICAL EQUIPMENT AND/OR DUCTING TO BE PAINTED TO MATCH ADJOINING WALL.
- ANY CEILING HVAC SUPPLY/DIFFUSERS ETC. TO BE PAINTED TO MATCH SURROUNDING CEILING FINISH. ANY QUESTIONS OR CONCERN TO BE BROUGHT TO ARCHITECT'S ATTENTION FOR FINAL DECISION PRIOR TO ORDER/INSTALL BY CONTRACTOR OR OTHER.
- GYPSUM SOFFIT TO BE EXTEND TO CEILING. HORIZONTAL SURFACE OF ALL SOFFITS TO BE PAINTED TO MATCH ADJOINING WALLS UNLESS OTHERWISE SPECIFIED.

CEILINGS:

- ALL GYPSUM BOARD CEILINGS TO BE PAINTED IN A FLAT WHITE FINISH UNLESS SPECIFIED.
- ALL EXPOSED MECHANICAL DUCT COVERS SHALL BE PAINTED TO MATCH THE SURROUNDING WALL/ CEILING COLOR. PRIME AS NECESSARY.

WALLS:

- PROVIDE (1) COAT WALL PRIMER FOLLOWED BY (2) COATS WALL PAINT ON ALL INTERIOR WALL SURFACE UNLESS OTHERWISE NOTED IN SPECIFICATIONS. SEE SPEC FOR DETAILS.
- WHERE DARK PAINT COLORS ARE APPLIED, USE DEEP GRAY BASE PRIMER TO PREVENT BURNISHING.
- MATCH EXISTING PAINT COLORS THROUGHOUT BUILDING. PLEASE SEE PAINTS 1-4, WHICH ARE THE ORIGINAL COLORS SPECIFIED.
- PROVIDE SPACERS AS NEEDED BEHIND MIRRORING IN RESTROOM TO ACCOUNT FOR TILE THICKNESS.

FLOORS:

- PROVIDE CORIAN OR EQUAL THRESHOLD AT ALL TOILET ROOM TRANSITIONS UNLESS OTHERWISE SPECIFIED. ARCHITECT TO CHOOSE FROM MANUFACTURER FULL RANGE OF COLORS.
- INSTALL NEW TILE IN RESTROOMS/BREAK ROOM WHERE CRACKED.
- ALL CARPET IN DEMOED AREAS TO BE CAREFULLY REMOVED, STORED, AND RELOCATED IN THE BUILDING. PLEASE SEE FIRST & SECOND FLOOR FINISH PLANS FOR EXACT LOCATIONS. IF NECESSARY, ORIGINAL PRODUCTS ARE LISTED IN SCHEDULE TO ORDER EXTRA MATERIAL.
- NO CHANGES OR SUBSTITUTIONS WILL BE MADE TO THE FOLLOWING FINISHES UNLESS DIRECTED BY THE **OWNER** OR **ARCHITECT.**
- CONTRACTOR TO PROVIDE (TS-1) AT **ALL** FLOORING MATERIAL CHANGES NEEDING THRESHOLDS. NECESSARY SIZES TO BE DETERMINED BY CONTRACTOR AND V.I.F. BASED ON MATERIAL THICKNESS.

MILLWORK:

- PROVIDE CLEAR BEAD OF SILICONE OR CLEAR CALK TO SEAL BETWEEN MILLWORK PIECES(IE: COUNTER TOP AND BACKSPLASH) AND MILLWORK AND WALL. (TYPICAL).
- MILLWORK IN MA & PTA LAB ARE TO BE REUSED FROM 200 REDTAIL BUILDING. STORE PROPERLY UNTIL RELOCATION IN NEW SPACES AT 180 REDTAIL.
- ALL COLOR SELECTION OF PLASTIC LAMINATE SUPPORTS TO MATCH ADJACENT WALL.

BASE:

- WHERE 4" TILE BASE IS LOCATED, USE SCHLUTER SYSTEM, INC. CHROME L-CHANNEL TOP CAP. FINISH SATIN. FINAL COLOR TO BE SELECTED BY ARCHITECT.
- USE RB-1 AT ALL NEW WALLS.

DOORS:

- ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED WITH P-2.

OUTLETS:

- ALL OUTLET SWITCHES AND COVERS TO MATCH EXISTING.

SIGNAGE:

- SIGNAGE LOCATIONS WILL NEED TO BE PROVIDED AND INSTALLED BY CONTRACTOR. TO BE SELECTED AND APPROVED BY ARCHITECT AND CLIENT PRIOR TO MANUFACTURER/PURCHASE TO BE PROVIDED BY TAKEFORM.

ROOM FINISH LEGEND

FLOORS
- CPT = CARPET
- T = TILE
- LVT = LUXURY VINYL TILE
- VCT = VINYL COMPOSITE TILE

BASE
- RB = RUBBER BASE

WALLS
- P = PAINT
- WT = WALL TILE

CEILING
- ACT = ACOUSTIC CEILING TILE
- GYP = GYPSUM BOARD

DOORS
- WD = WOOD DOOR

MISCELLANEOUS
- PL = PLASTIC LAMINATE
- SS = SOLID SURFACE
- TS = TRANSITION STRIP
- MISC = MISCELLANEOUS
- WV = WOOD VENEER
- ST = WOOD STAIN
- STS = STACKED STONE

MATERIALS
- P.B. = PARTICLE BOARD
- GYP. = GYPSUM BOARD

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SEAL:

TITLE:
FINISH LEGEND & GENERAL NOTES

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ROOM FINISH SCHEDULE - FIRST FLOOR

ROOM NUMBER	ROOM NAME	BASE	FLOOR	WALLS	MILLWORK		REMARKS
					CABINET/ SHROUD	COUNTERTOP/ BACKSPLASH	
101	EXISTING VESTIBULE	EXISTING	EXISTING	EXISTING			
102	EXISTING LOBBY	EXISTING	EXISTING	EXISTING			
103	EXISTING STAIR	EXISTING	EXISTING	EXISTING			
104	CORRIDOR	EXISTING	LVT-1	EXISTING/P-1			4
105	SUPPLIES	EXISTING	EXISTING	EXISTING			
106	COATS	EXISTING	EXISTING	EXISTING			
107	CAREER CENTER	EXISTING	EXISTING	EXISTING/P-1/P-5			
108	DIRECTOR OF CAREER SERVICES	EXISTING	EXISTING	EXISTING			
109	RECEPTION	RB-1	LVT-1	P-1	WV-1/PL-1/ PL-7	SS-1/PL-6	1
110	CORRIDOR	EXISTING/RB-1	LVT-1/LVT-2/LVT-3	EXISTING/P-1			4
111	IT OFFICE	EXISTING/RB-1	EXISTING	EXISTING/P-1			
112	EXISTING IT ROOM	EXISTING	EXISTING	EXISTING			
113	STORAGE	EXISTING	EXISTING	EXISTING			
114	COATS	EXISTING	EXISTING	EXISTING			
115	STUDENT LOUNGE	EXISTING	EXISTING/T-1	EXISTING			3
116	EMPLOYEE BREAK ROOM	RB-1	LVT-1	EXISTING/P-1	PL-1	PL-2	
117	MOTHER'S ROOM	RB-1	LVT-1	EXISTING/P-1			
118	FINANCIAL AID	EXISTING/RB-1	EXISTING	EXISTING/P-1/P-3			
119	DIRECTOR OF FINANCIAL SERVICES	EXISTING	EXISTING	EXISTING			
120	BUSINESS OFFICE ASSISTANT	EXISTING	EXISTING	EXISTING			
121	EXISTING STAIR	EXISTING	EXISTING	EXISTING			
122	EXISTING MAINTENANCE ROOM	EXISTING	EXISTING	EXISTING			
123	EXISTING ELECTRICAL ROOM	EXISTING	EXISTING	EXISTING			
124	DIRECTOR OF BUSINESS DEVELOPMENT	EXISTING	EXISTING	EXISTING			
125	EXISTING VESTIBULE	EXISTING	EXISTING	EXISTING			
126	EXISTING RPZ	EXISTING	EXISTING	EXISTING			
127	STUDENT SERVICE DEAN	EXISTING	EXISTING	EXISTING			
128	DEAN INSTRUCTION	EXISTING	EXISTING	EXISTING			
129	REGISTRAR	EXISTING	EXISTING	EXISTING			
130	CAMPUS DIRECTOR	EXISTING	EXISTING	EXISTING			
131	DIRECTOR OF ADMISSIONS	EXISTING	EXISTING	EXISTING			
132	ADMISSIONS OPEN OFFICE	EXISTING	EXISTING	EXISTING			
133	EXISTING CONFERENCE ROOM	EXISTING	EXISTING	EXISTING			
134	CLOSET	EXISTING	EXISTING	EXISTING			
135	CLOSET	EXISTING	EXISTING	EXISTING			
136	LIBRARY	EXISTING	EXISTING	EXISTING			
137	TESTING	RB-1	CPT-2	EXISTING/P-1			
138	LEARNING LAB	EXISTING/RB-1	EXISTING	EXISTING/P-1/P-5			
139	LIBRARIAN	EXISTING/RB-1	EXISTING	EXISTING/P-1			
140	FACULTY BOOKS	EXISTING	EXISTING	EXISTING/P-1			
141	OPEN OFFICE AREA	EXISTING	EXISTING	EXISTING/P-3			
142	CORRIDOR	EXISTING/RB-1	EXISTING	EXISTING/P-3			
143	ACADEMIC FILES	RB-1	EXISTING	P-1			
144	ADMIN.	RB-1	EXISTING	P-1			
145	COPY	RB-1	EXISTING	P-3	PL-1	PL-3	
146	FILE ROOM/STORAGE	RB-1	LVT-2	P-1 / P-2			
147	UNISEX RESTROOM	TB-2	T-2	EXISTING/P-1	PL-5	PL-4	
148	EXISTING MEN'S	EXISTING	EXISTING/T-2	EXISTING			
149	EXISTING WOMEN'S	EXISTING	EXISTING/T-2	EXISTING			3

ROOM FINISH SCHEDULE - SECOND FLOOR

ROOM NUMBER	ROOM NAME	BASE	FLOOR	WALLS	MILLWORK		REMARKS
					CABINET/ SHROUD	COUNTERTOP/ BACKSPLASH	
201	EXISTING STAIR	EXISTING	EXISTING	EXISTING			
202	CORRIDOR	RB-1	LVT-1/LVT-2/LVT-3	EXISTING			4
203	PC 8 LAB	EXISTING	EXISTING	EXISTING			
204	FACILITY COORDINATOR	EXISTING	EXISTING	EXISTING			
205	EXISTING JANITORIAL	EXISTING	EXISTING	EXISTING			
206	EXISTING ELEV. MACHINE ROOM	EXISTING	EXISTING	EXISTING			
207	CORRIDOR	RB-1	LVT-1/LVT-2/LVT-3	EXISTING/P-1/P-3			4
208	MA LAB	RB-1	LVT-1	EXISTING/P-1	EXISTING	EXISTING	5
209	MA STORAGE	RB-1	LVT-1	P-1			
210	DR'S OFFICE	RB-1	LVT-1	EXISTING/P-1	EXISTING	EXISTING	5
211	EXISTING WOMEN'S	EXISTING	EXISTING	EXISTING			
212	EXISTING MEN'S	EXISTING	EXISTING	EXISTING			
213	FACULTY LOUNGE	EXISTING	EXISTING	P-1/P-4			
214	CORRIDOR	RB-1	LVT-1/LVT-2/LVT-3	EXISTING/P-1/P-3			4
215	PTA LAB	RB-1	LVT-1	EXISTING/P-1			5
216	PTA STORAGE	RB-1	VCT-1	EXISTING/P-1			
217	CORRIDOR	RB-1	LVT-1/LVT-2/LVT-3	EXISTING/P-1			
218	EXISTING STAIR	EXISTING	EXISTING	EXISTING			
219	PTA DIRECTOR	EXISTING/RB-1	EXISTING	EXISTING/P-1			
220	PTA CEC	EXISTING/RB-1	EXISTING	EXISTING/P-1			
221	CORRIDOR	RB-1	LVT-1/LVT-2/LVT-3	EXISTING/P-1/P-3			4
222	PC 16 LAB	RB-1	EXISTING/CPT-1/ CPT-3/CPT-4	EXISTING/P-1/P-5			2
223	PC 16 LAB	RB-1	EXISTING/CPT-1/ CPT-3/CPT-4	EXISTING/P-1/P-5			2
224	PC 24 LAB	RB-1	EXISTING/CPT-1/ CPT-3/CPT-5/CPT-6	EXISTING/P-1/P-5			2
225	PC 16 LAB	RB-1	EXISTING/CPT-1/ CPT-3/CPT-4	EXISTING/P-1/P-5			2
226	PC 16 LAB	RB-1	EXISTING/CPT-1/ CPT-3/CPT-5	EXISTING/P-1/P-5			2
227	CORRIDOR	RB-1	LVT-1/LVT-2/LVT-3	EXISTING/P-1/P-3			
228	PC 24 LAB	RB-1	EXISTING/CPT-2/ CPT-4	EXISTING/P-1/P-5			2
229	STORAGE	RB-1	VCT-1	P-1			
230	CONFERENCE ROOM	RB-1	EXISTING/CPT-2	P-1/P-4			
231	VETERAN'S LOUNGE	RB-1	EXISTING/CPT-1	P-1			
232	STUDENT LOUNGE	RB-1	LVT-1/LVT-2/LVT-3	P-1/STS-1			4

ROOM FINISH LEGEND

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- VCT = VINYL COMPOSITE TILE

BASE
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- ST = WOOD STAIN
- STS = STACKED STONE

MATERIALS
- P.B. = PARTICLE BOARD
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REMARKS

1. REFER TO REFLECTED CEILING PLAN FOR EXACT DETAILS (MATERIALS, HEIGHTS, SIZES, ETC...) FOR CEILING LAYOUT.
2. REFER TO FLOOR INSTALLATION GUIDE TO SEE NEW CARPET LAYOUT IN CLASSROOMS.
3. REPLACE CRACKED TILES WITH TILE SPECIFIED.
4. CONTACT ARCHITECT FOR LVT LAYOUT.
5. RELOCATED MILLWORK FROM 200 REDTAIL.

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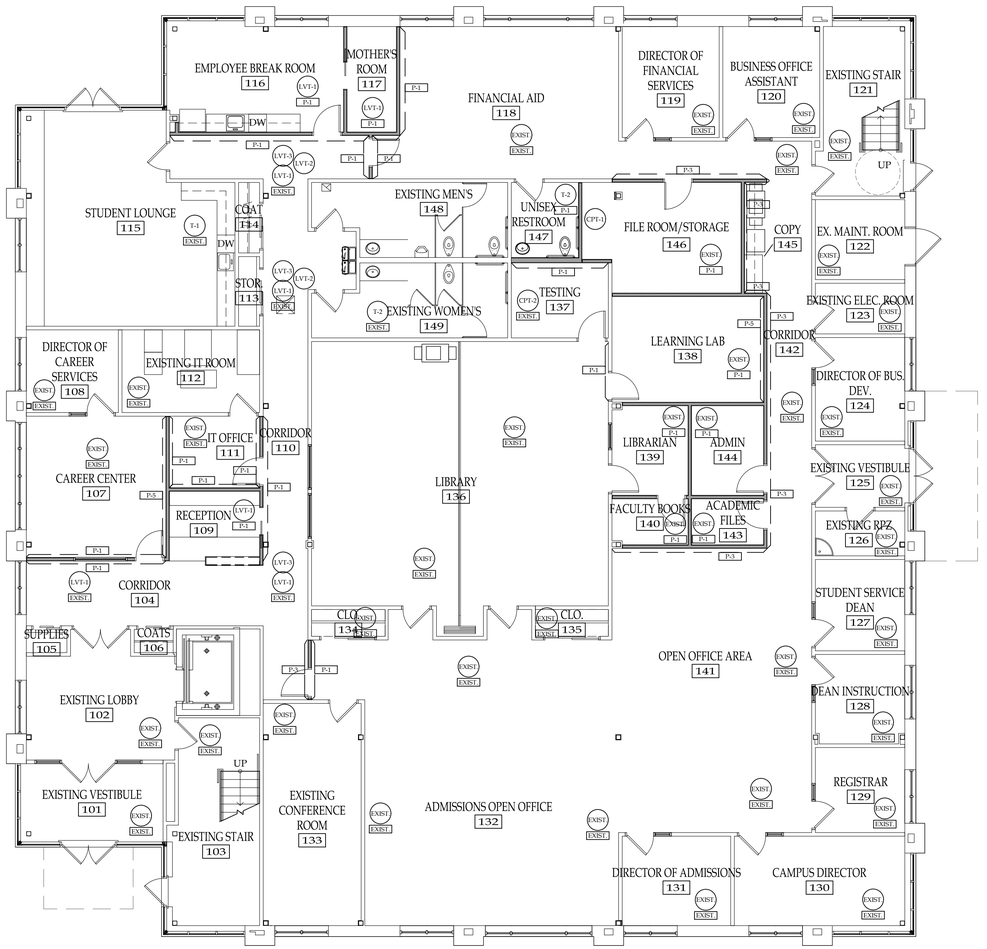

A2 FIRST FLOOR FINISH PLAN
SCALE: 1/8"=1'-0"

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FIRST FLOOR FINISH PLAN

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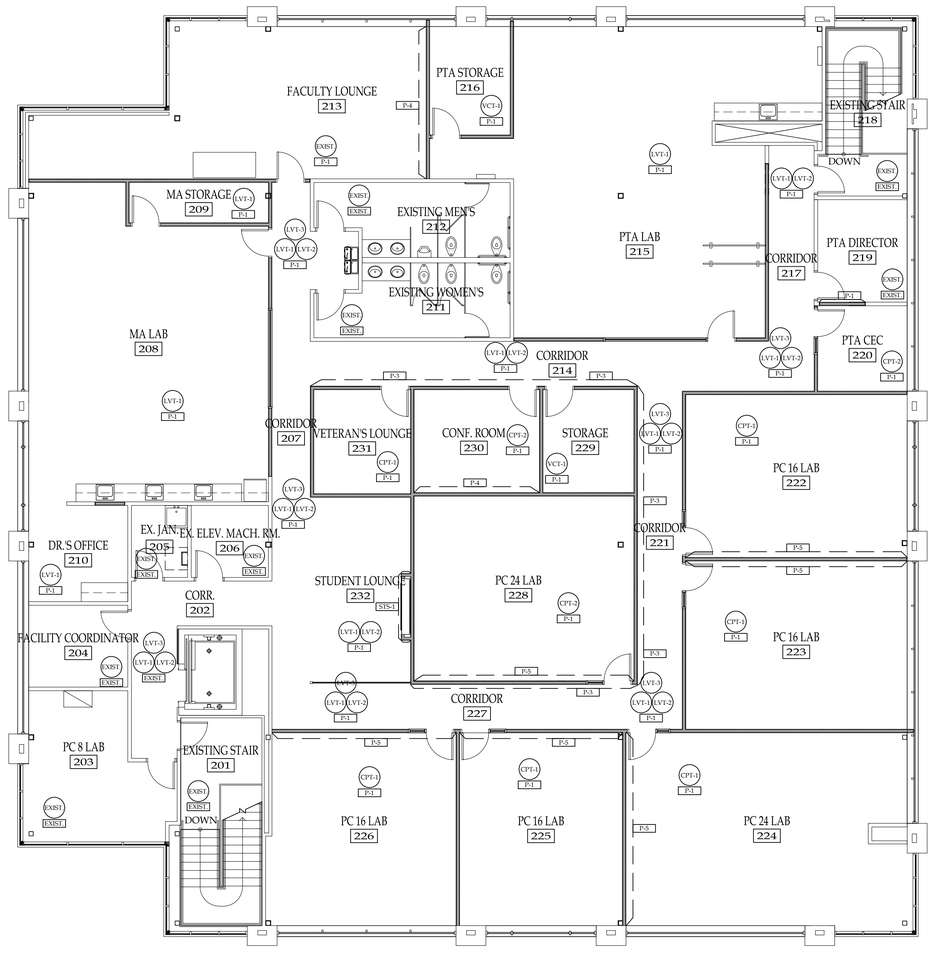

A2 SECOND FLOOR FINISH PLAN
SCALE: 1/8"=1'-0"

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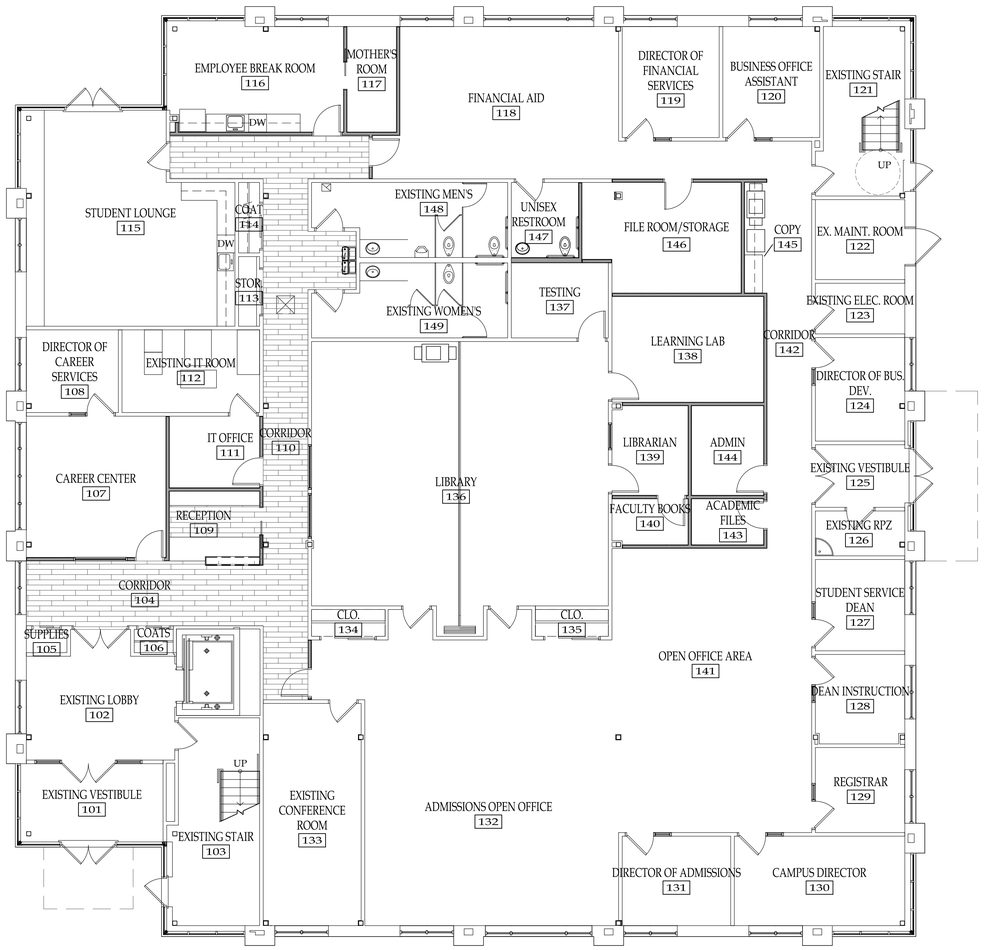

A2 FIRST FLOOR FINISH PLAN
SCALE: 1/8"=1'-0"

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TITLE:
FIRST FLOOR FINISH PLAN - FLOOR INSTALLATION LAYOUT

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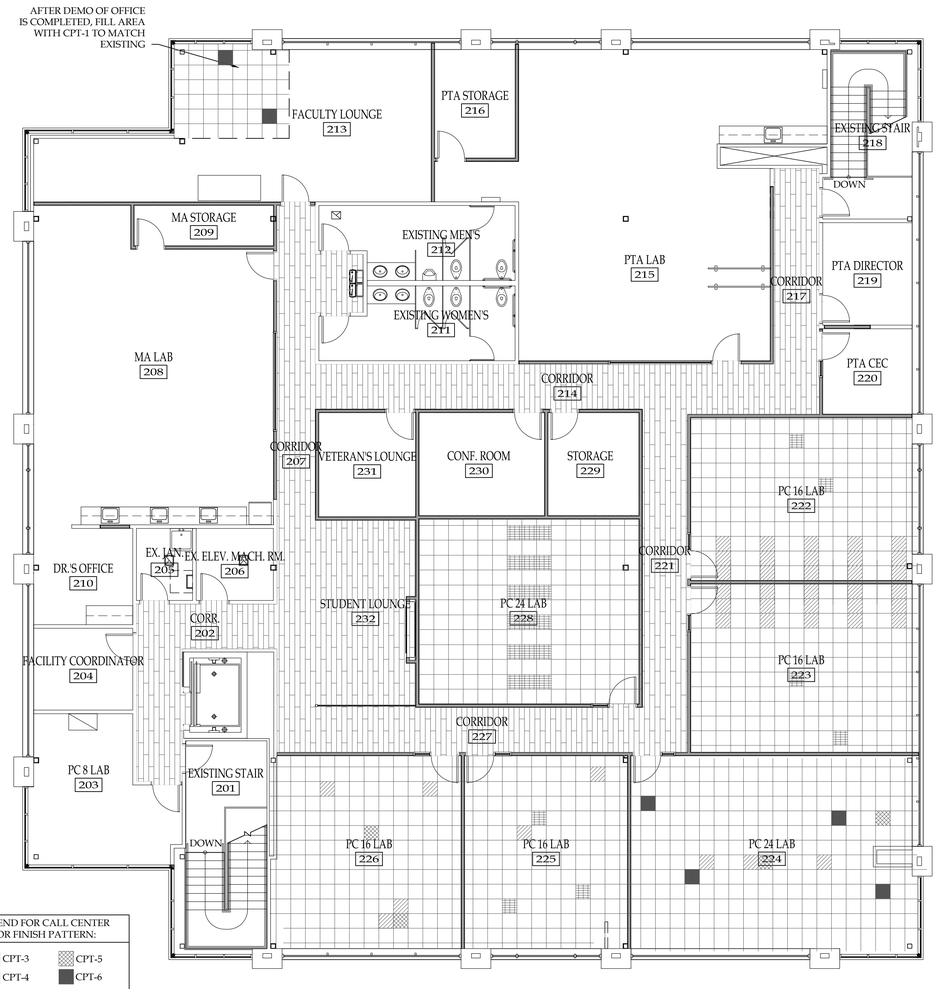

A2 SECOND FLOOR FINISH PLAN
SCALE: 1/8"=1'-0"

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SECOND FLOOR FINISH PLAN - FLOOR INSTALLATION LAYOUT

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EXHAUST FAN SCHEDULE

UNIT NO.	AREA SERVED	GREENHECK MODEL NO.	TYPE	CFM	S.P. (IN WC.)	FAN RPM	LIGHT	OPERATING POWER	MOTOR INFORMATION			SONES	NOTES
									VOLTAGE	ENCL.	RPM		
EF-1	TOILET RM	SP-A70	CEILING	75	0.125	850	YES	20 W	115/60/1ø	ODP	850	0.8	1,2,3,4,5

NOTES:

1. CONTROLLED BY SWITCH
2. PROVIDE MANUFACTURER'S ROOF CURB AND CAP.
3. BACKDRAFT DAMPER
4. HANGING KIT WITH VIBRATION ISOLATORS
5. PROVIDE 26W CF BULB.

AIR DEVICE SCHEDULE

MARK	TYPE	STYLE	FACE	BASIS OF DESIGN
A	SUPPLY	LAY-IN	24"x24"	TITUS TMS
A1	SUPPLY	LAY-IN	12"x12"	TITUS TMS
B	RETURN	LOUVERED, LAY-IN	24"x12"	TITUS 350RL
C	RETURN	LOUVERED, LAY-IN	24"x24"	TITUS 350RL
D	EXHAUST	LOUVERED, LAY-IN	12"x12"	TITUS 350RL

MARK — (A) — 8"ø NECK / 150 CFM

1. FINISH TO MATCH ARCHITECTURAL.
2. OPTIONAL VOLUME DAMPER ON ALL DIFFUSERS MOUNTED IN GYPSUM CEILINGS OR SOFFITS.
3. PROVIDE ALL REQUIRED MOUNTING FRAMES AND HARDWARE.

GENERAL HVAC NOTES

A. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF SUPPLY DIFFUSERS, RETURN GRILLES AND EXHAUST GRILLES.

B. CONTRACTOR SHALL MAINTAIN A MIN. OF 10 FEET CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUSTS, PLUMBING VENTS, ETC.

C. CONTRACTOR SHALL MAINTAIN RECOMMENDED CLEARANCES FOR MAINTENANCE, OPERATION, ETC. ON ALL MECHANICAL EQUIPMENT.

D. INSULATED FLEXIBLE SUPPLY AIR DUCT MAY BE USED UP TO 5'-0" FROM SUPPLY DIFFUSERS.

E. CONTRACTOR SHALL COORDINATE ALL HVAC WORK WITH OTHER TRADES, ELECTRICAL, PLUMBING, STRUCTURAL, ETC.

F. ALL WORK SHALL BE IN FULL COMPLIANCE WITH ALL STATE AND LOCAL CODES AND REGULATIONS.

G. HVAC EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

H. COORDINATE EXACT LOCATION OF FURNACES WITH ARCHITECTURAL DRAWINGS AND STRUCTURAL STEEL.

I. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF THERMOSTATS WITH OWNER.

J. CONTRACTOR SHALL VERIFY ALL EXISTING DUCTWORK (LOCATION AND SIZES).

K. HVAC SYSTEM UTILIZES A PLENUM CEILING FOR RETURN AIR.

L. PROVIDE FIRE DAMPERS AS REQUIRED ON DUCTS PENETRATING FIRE RATED WALL RATED 2-HR OR MORE. COORDINATE WITH ARCHITECTURAL DRAWINGS.

MECHANICAL LEGEND

- EXISTING DIFFUSER/GRILLE
- NEW RETURN AIR GRILLE
- EXISTING SUPPLY DUCTWORK
- EXISTING RETURN DUCTWORK
- EXISTING DUCTWORK TO BE REMOVED
- EXISTING RETURN DUCTWORK
- NEW RETURN AIR DUCTWORK
- NEW SUPPLY AIR DUCTWORK
- NEW EXHAUST AIR DUCTWORK
- BALANCE/VOLUME DAMPER
- (S) EXISTING TEMPERATURE SENSOR
- UD UNDERCUT DOOR (3/4")
- 1 / M-100 DETAIL NUMBER / DRAWING SHEET NUMBER

AFF	ABOVE FINISHED FLOOR
RTU	ROOF TOP UNIT
VD	VOLUME DAMPER
CFM	CUBIC FEET PER MINUTE
DATS	DISCHARGE AIR TEMP SENSOR
FD	FIRE DAMPER
O.A.	OUTSIDE AIR
EAG	EXHAUST AIR GRILLE
SAR	SUPPLY AIR REGISTER
RAG	RETURN AIR GRILLE
NK	NECK
UD	UNDERCUT DOOR (BY ARCHITECT)
GC	GENERAL CONTRACTOR
OBVD	OPPOSED BLADE VOLUME DAMPER
OED	OPEN END DUCT
HVAC	HEATING VENTILATING AND AIR CONDITIONING
MC	MECHANICAL CONTRACTOR
	POINT OF CONNECTION

HVAC SPECIFICATIONS

NOTE: MANUFACTURERS' NAMES ON WHICH THIS SPECIFICATION IS BASED INDICATE THE MINIMUM QUALITY OF PRODUCT REQUIRED. SUBSTITUTION MAY BE MADE TO THOSE SPECIFIED IF DEEMED EQUIVALENT BY THE OWNER'S REPRESENTATIVE. ALL WORK AND PRODUCTS SHALL MEET THE REQUIREMENTS OF GOVERNING CODES.

1. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH ALL APPLICABLE CODES.
2. SEE ARCHITECTURAL GENERAL AND SPECIAL CONDITIONS. ALL CONDITION REQUIREMENTS SHALL APPLY UNLESS OTHERWISE NOTED.
3. ALL WORK SHALL BE PERFORMED AS INDICATED ON DRAWINGS UNLESS FIELD CONDITIONS REQUIRED MINOR CHANGES BE MADE. MINOR CHANGES SHALL BE MADE WITH NO ADDITIONAL COST.
4. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK BY THE OWNER.
5. CONTRACTOR SHALL PREPARE AND SUBMIT AS-BUILT DRAWINGS TO THE OWNER AND THE LANDLORD. AS-BUILT DRAWINGS SHALL INDICATE THE ACTUAL MANUFACTURER OF THE EQUIPMENT THAT WAS INSTALLED, THE EXACT LOCATION OF THE EQUIPMENT AND PERTINENT CAPACITIES FOR HEATING, COOLING, ELECTRICAL, ETC.
6. DEFICIENCIES AND NON-CONFORMING ITEMS SHALL BE CORRECTED BY THE CONTRACTOR. FAILURE TO CORRECT SUCH ITEMS SHALL PERMIT THE OWNER TO CORRECT SAME AT A COST TO THE CONTRACTOR
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS AND PAYING FOR SAME. HE SHALL INCLUDE IN HIS BID CHARGES FOR ALL FEES ASSOCIATED WITH THE CONSTRUCTION OF THE SPACE INCLUDING BUT NOT LIMITED TO LOCAL, COUNTY, OR STATE SERVICE CHARGES AND PERMIT FEES.
8. THE SCOPE OF WORK OF THIS CONTRACT INCLUDES, BUT SHALL NOT BE LIMITED TO:
   A. PROVIDE AND INSTALL ALL EQUIPMENT, APPLIANCES, CONTROL DEVICES, ACCESSORIES, MATERIAL AND LABOR.
   B. PROVIDE AND INSTALL ALL DUCTWORK, INSULATION, AIR DEVICES DUCT ACCESSORIES, MATERIAL AND LABOR
   C. PROVIDE AND INSTALL ALL PIPING, FITTINGS, VALVES, INSULATION, ACCESSORIES , MATERIAL AND LABOR
   D. PROVIDE AND INSTALL TOILET EXHAUST SYSTEM INDICATED.
   E. CLEAN, TEST AND PUT INTO SERVICE ALL SYSTEMS SPECIFIED.
   F. PROVIDE A BALANCE REPORT PREPARED BY AN INDEPENDENT AABC OR NEBB CERTIFIED AIR BALANCE CONTRACTOR.
   G. WARRANTY ALL WORK AND MATERIALS HEREIN SPECIFIED FOR A PERIOD OF NOT LESS THAN ONE YEAR.
9. MATERIALS

9.1. ALL MATERIALS SHALL BE NEW AND OF RECOGNIZED COMMERCIAL QUALITY. USED MATERIALS WILL NOT BE PERMITTED.

9.2. DUCTWORK

SHALL BE GALVANIZED SHEET METAL, FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF SMACNA – "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE".

DUCTWORK 18" WIDTH AND LARGER SHALL BE CROSS-BROKEN OR RIBBED AND STIFFENED SO THAT IT WILL NOT "BREATHE", RATTLER, VIBRATE OR SAG.

9.3. FLEXIBLE DUCTWORK

FLEXIBLE DUCTS SHALL BE FLAT METAL SPIRAL WITH FLAME RESISTANCE PER NBFU AND NFPA STANDARDS. DUCTS SHALL HAVE INTEGRAL INSULATION 1" THICK, 3/4 LB. DENSITY GLASS FIBER ENCLOSED IN A VINYL VAPOR BARRIER.MINIMUM R VALUE = 5. SECURE INSULATED JACKET TO DUCT TAKEOFFS AND DIFFUSER COLLARS. MAXIMUM LENGTH OF FLEXIBLE DUCT IS 5'-0".

ALL FLEX DUCT SHALL BE FULLY STRETCHED OUT TO REDUCE AIR RESISTANCE.

CONNECTIONS TO FITTINGS OR AIR DEVICES SHALL BE MADE WITH TWO (2) STAINLESS STEEL BANDS. THE INNER LINER SHALL BE CLAMPED TIGHT WITH THE FIRST BAND, THEN THE INSULATION AND VAPOR-PROOF JACKET PULLED TO BE TIGHT AGAINST THE DUCT FITTING OR AIR DEVICE AND SECURED WITH THE SECOND BAND. INSTALLATION SHALL BE AS RECOMMENDED BY THE DUCT MANUFACTURER AND SMACNA

SUPPORT THE FLEXIBLE DUCT WITH ADEQUATE HANGERS TO RELIEVE STRAIN ON ANY FITTING. UNNECESSARY BENDS, SAGS, TWISTS., WILL NOT BE ALLOWED.

9.4. DUCT INSULATION

INSULATION SUPPLY AND RETURN AIR DUCTWORK WITH MINIMUM R=6 FOR NON-CONDITIONED SPACE AND MIN R=8 FOR OUTSIDE DUCTS IN ACCORDANCE WITH THE STATE ENERGY CONSERVATION CODE. PROVIDE VAPOR BARRIER.

LINED DUCT SHALL BE LINED WITH 1" THICK COATED FIBERGLASS BOARD EQUAL TO JOHNS MANVILLE "PERMACOTE" INSULATION. SHALL BE PER SMACNA STANDARDS AND MANUFACTURER'S INSTRUCTIONS. LINED DUCTWORK SHALL BE USED WHERE INDICATED ON DRAWING

ALL DUCT INSULATION SHALL BE UL LABELED FOR FIRE AND SMOKE RATINGS.

DUCT INSULATION SHALL BE EQUAL TO PRODUCTS MANUFACTURED BY CERTAINTEED AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

9.5. AIR DEVICES

CEILING DIFFUSERS SHALL HAVE A FRAME STYLE COMPATIBLE WITH THE TYPE OF CEILING USED. THE DIFFUSER FACE SIZE OR FACE PLATE SIZE SHALL BE OF THE SAME NORMAL SIZE AS THE CEILING MODULE. DIFFUSERS SHALL HAVE HIGH ANTI-SMUDGE CHARACTERISTICS. REFER TO AIR DEVICE SCHEDULE.

9.6. PIPING AND FITTINGS

CONDENSATE DRAIN PIPING SHALL BE TYPE L COPPER WITH SOLDERED JOINTS AND WROUGHT COPPER FITTINGS.

10. EQUIPMENT

HVAC EQUIPMENT SHALL BE AS SCHEDULED ON THE DRAWINGS AND/OR SPECIFIED HEREIN. EQUIVALENT EQUIPMENT AND/OR COMPONENTS THEREOF MAY BE SUBSTITUTED FOR SPECIFIED EQUIPMENT ONLY AS APPROVED BY THE OWNER AND/OR THE PROJECT ENGINEER.

11. EXECUTION

11.1. GENERAL

ACCESSIBILITY – ALL EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT ALL COMPONENTS REQUIRING ACCESS ARE LOCATED AND INSTALLED THAT THEY MAY BE SERVICED, RESET, REPLACED, OR RECALIBRATED, ETC., BY SERVICE PEOPLE WITH NORMAL SERVICE TOOLS AND EQUIPMENT.

WORK BY OTHER TRADES – FOR THE WORK REQUIRED BY OTHER TRADES FOR CHANGES MADE BY THIS CONTRACTOR IN TYPE OR SIZE OF EQUIPMENT PURCHASED, ANY CUTTING, PATCHING, FURRING, PAINTING, ELECTRICAL OR PLUMBING WORK SHALL BE DONE BY THE AFFECTED TRADE AT THIS CONTRACTOR'S EXPENSE.

EARLY START-UP – THIS CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL EQUIPMENT IS CONNECTED WITH ELECTRICAL POWER AS EARLY AS POSSIBLE SO THAT BALANCING AND TESTING CAN BEGIN AT THE EARLIEST DATE AVAILABLE.

CLEANING AND PAINTING – THOROUGHLY CLEAN ALL EQUIPMENT AND REMOVE ALL TRASH, CARTONS, ETC., FROM THE WORK AREA. MAKE ANY NECESSARY CORRECTIONS OR REPAIR/ REPLACE ANY DAMAGED MATERIALS OR EQUIPMENT. LEAVE THE ENTIRE SPACE IN A THOROUGHLY CLEAN AND ORDERLY MANNER. ANY FINISHED SURFACES THAT HAVE BEEN SCRATCHED OR DISCOLORED SHALL BE TOUCHED UP OR REPAINTED TO MATCH THE ORIGINAL COLOR. IF ANY PART HAS BEEN BENT, BROKEN OR OTHERWISE DAMAGED, IT SHALL BE REPLACED PRIOR TO PROJECT CLOSEOUT. ALL METAL ITEMS INSIDE THE BUILDING SUBJECT TO RUSTING, AND ALL FERROUS METAL EXPOSED TO THE WEATHER SHALL BE GIVEN ONE COAT OF RUST PREVENTIVE PRIMER AS SOON AS INSTALLED.

11.2. EQUIPMENT INSTALLATION

ALL EQUIPMENT AND RELATED PIPING, DUCTWORK, CONTROL WIRING AND ACCESSORIES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES AND, IF INSTALLED WITHIN WITHIN THE BUILDING ENVELOPE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE MAXIMUM AMOUNT OF HEADROOM. EQUIPMENT THAT REQUIRES ROUTINE MAINTENANCE SUCH AS FILTER REPLACEMENT SHALL BE INSTALLED AND ARRANGED TO BE ACCESSIBLE. PROVIDE ACCESS PANEL(S) AS REQUIRED AND/OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. ALL EQUIPMENT SHALL BE INSTALLED WITH THE REQUIRED CLEARANCES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER OR AS REQUIRED BY GOVERNING CODES, WHICHEVER IS GREATER.

11.3. DUCTWORK

LOW PRESSURE DUCTWORK AND FITTING SHALL BE MADE TIGHT FOR MINIMUM AIR LEAKAGE. DUCT TAPE SHALL NOT BE USED TO SEAL JOINTS, TO MAKE TRANSITIONS OR FOR ANY OTHER REASON ON THE OUTSIDE OF THE WRAPPED INSULATION

INSTALL DUCTWORK AS HIGH AS POSSIBLE.

PROVIDE TURNING VANES AT ALL CHANGES IN DIRECTION.

PROVIDE VANED TEES AT BRANCH CONNECTIONS SERVING MORE THAN ONE DIFFUSER

PROVIDE VOLUME CONTROL DAMPERS AND BALANCING DEVICES AS REQUIRED TO DISTRIBUTE THE AIR AND AS INDICATED ON THE DRAWINGS.

NOTE: DUCT DIMENSIONS INDICATED ON THE DRAWINGS ARE INSIDE CLEAR, OR "FREE AREA" DIMENSIONS, CONTRACTOR SHALL MAKE ALLOWANCE FOR INTERNAL DUCT LINER (WHERE SPECIFIED) WHEN ORDERING PRE-FABRICATED DUCTWORK OR WHEN FABRICATING DUCTS IN THE FIELD.

11.4. AIR DEVICES

INSTALL ALL GRILLES AND DIFFUSERS TO BE FLUSH WITH THE PENETRATED SURFACE AND LEVEL OR STRAIGHT WITH SURROUNDING FEATURES. ALL CEILING MOUNTED AIR DEVICES SHALL BE LOCATED IN THE CEILING TILE INDICATED ON THE DRAWINGS. AT THE PROPER HEIGHT TO HOLD IT SNUG AGAINST THE CEILING.

12. INSTALL ROOF MOUNTED EQUIPMENT SUPPORT RAILS OR ROOF CURB AS REQUIRED FOR THE JOB CONDITIONS AND AS RECOMMENDED BY THE MANUFACTURER FOR THE INSTALLATION OF ROOF MOUNTED EQUIPMENT.

ALL ROOF PENETRATIONS FOR POWER AND CONTROL WIRING CONDUITS AND GAS, CONDENSATE, OR REFRIGERANT PIPING SHALL BE MADE WITH WATERPROOF PIPE SLEEVES OR CURB(S).

13. THIS CONTRACTOR SHALL ENGAGE THE SERVICES OF AN AABC OR NEBB CERTIFIED AIR BALANCE CONTRACTOR TO ADJUST AND COMPLETELY BALANCE THE INSTALLED SYSTEM(S) TO THE DESIGN AIR QUANTITIES. CONTRACTOR SHALL PROVIDE THE OWNER AND THE LANDLORD A COPY OF THE CERTIFIED AIR BALANCE REPORT SHOWING DESIGN AND MEASURED AIR QUANTITIES, STATIC PRESSURES, FAN MOTOR RPM AND MOTOR CURRENT, DEVIATION BETWEEN DESIGN AND MEASURED QUANTITIES SHALL NOT BE GREATER THAN 10%.

14. ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.

FOR THE SAME PERIOD, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE PREMISES BY DEFECTS IN HIS WORKMANSHIP OR WORK AND/OR EQUIPMENT INSTALLED BY OTHERS UNDER HIS CONTRACT.

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ISSUE:

SA PROJECT TEAM: PRINCIPAL P.Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. S.Hunt INTERIORS N.Catuzza

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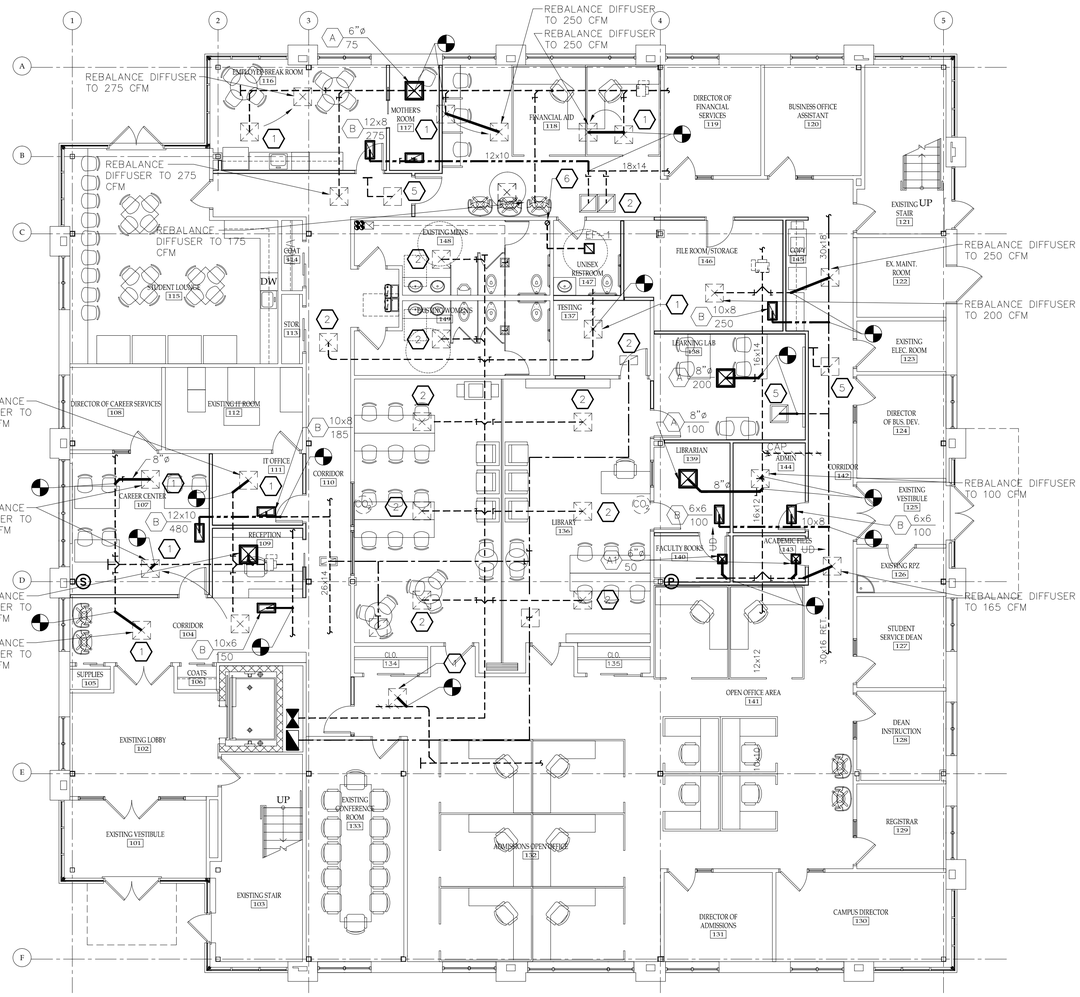
SA JOB #: 17033.02
DATE: 10-18-2017

DRAWING #: M-100



1 FIRST FLOOR PLAN
M-101 SCALE: 1/8" = 1'-0"

NOTES:

1. EXISTING SUPPLY DIFFUSER TO BE RELOCATED AS SHOWN. EXTEND/CUTBACK DUCTWORK AS NEEDED.
2. EXISTING SUPPLY REGISTER TO REMAIN.
3. EXISTING THERMOSTAT TO REMAIN.
4. EXISTING THERMOSTAT TO BE RELOCATED TO LOCATION SHOWN. CONTRACTOR SHALL VERIFY LOCATION OF THERMOSTAT IN FIELD AND SHALL COORDINATE FINAL LOCATIONS WITH OWNER.
5. EXISTING RETURN GRILLE TO BE RELOCATED AS SHOWN. EXTEND/CUTBACK DUCTWORK AS NEEDED.
6. 6"ø EXHAUST DUCT UP TO CHASE IN FLOOR ABOVE

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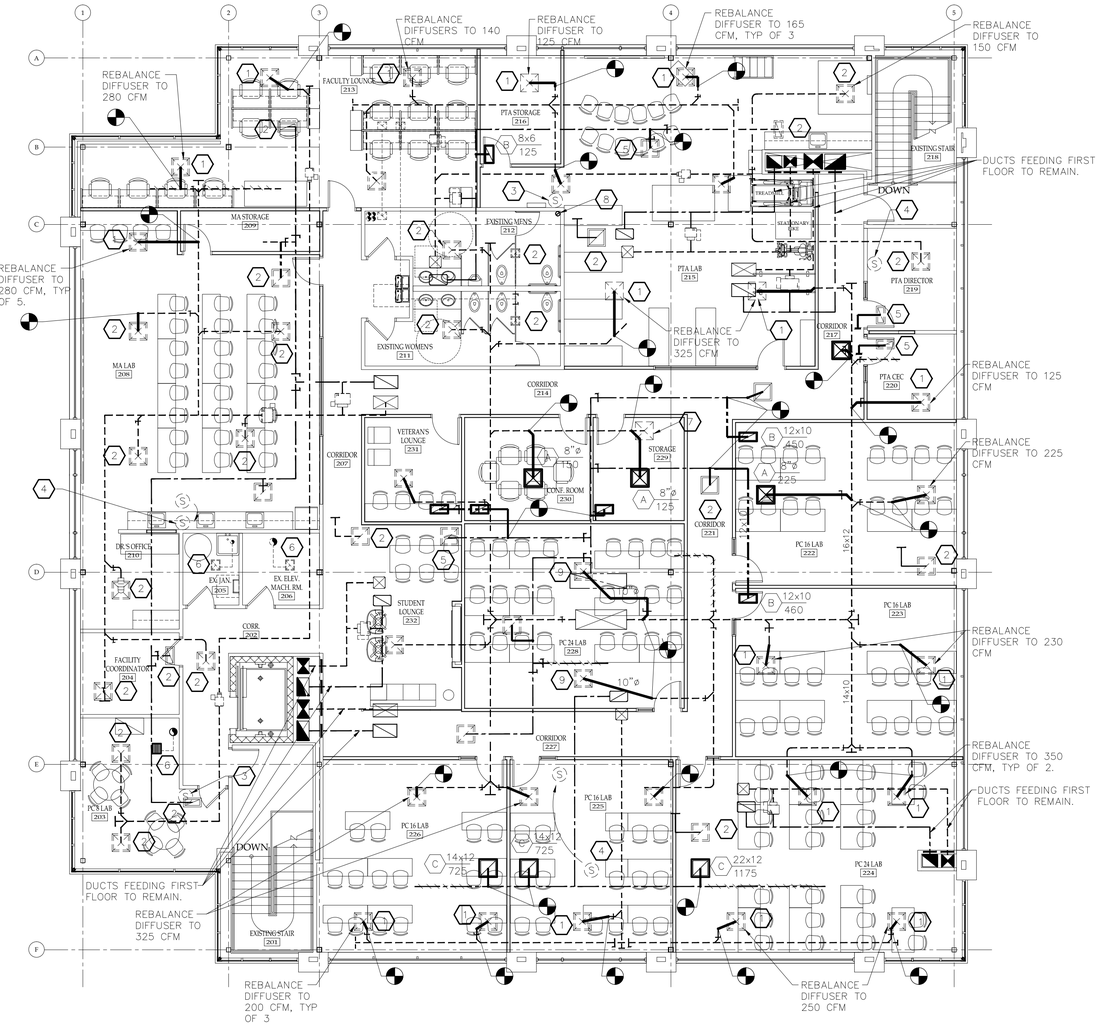

1 SECOND FLOOR PLAN
M-102 SCALE: 1/8" = 1'-0"

NOTES:

1. EXISTING SUPPLY DIFFUSER TO BE RELOCATED AS SHOWN. EXTEND/CUTBACK DUCTWORK AS NEEDED.
2. EXISTING SUPPLY DIFFUSER, EXHAUST GRILLE OR RETURN GRILLE TO REMAIN. LOCATE IN NEW GRID AS SHOWN.
3. EXISTING TEMPERATURE SENSOR TO REMAIN.
4. EXISTING TEMPERATURE SENSOR TO BE RELOCATED TO LOCATION SHOWN. CONTRACTOR SHALL VERIFY LOCATION OF THERMOSTAT IN FIELD AND SHALL COORDINATE FINAL LOCATIONS WITH OWNER.
5. EXISTING RETURN GRILLE TO BE RELOCATED AS SHOWN. EXTEND/CUTBACK DUCTWORK AS NEEDED.
6. EXISTING EXHAUST FAN TO REMAIN.
7. EXISTING DIFFUSER OR GRILLE TO BE REMOVED. TURN OVER TO OWNER.
8. EXHAUST DUCT UP IN BOXED OUT CORNER FROM BELOW. RUN UP THRU ROOF TO ROOF CAP. SEE ARCHITECTURAL PLAN FOR MORE INFORMATION ON SHAFT.
9. BALANCE DIFFUSER TO 325 CFM.

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PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE AND TYPE	SYMBOL	DRAINAGE		DOMESTIC WATER			REMARKS
			SAN	VENT	DCW	DHW	DTW	
WC1	WATER CLOSET (ADA) –COLOR PER OWNER – – –		3"	2"	1"	–	–	MANUFACTURER: KOHLER –VITREOUS CHINA MODEL: K4302, HIGHCREST, 1.6 GPF –ELONGATED BOWL, 10" ROUGH–IN –SLOAN OPTIMA PLUS 8111 (BATTERY) FLUSH VALVE –OPEN FRONT SEAT, BEMIS –WHITE, NO COVER
LV1	LAVATORY (ADA) –COUNTER MOUNT –COLOR PER ARCH. – –		1–1/2"	1–1/2"	1/2"	1/2"	–	MANUFACTURER: KOHLER – VITREOUS CHINA MODEL: K2196–4–0ET, PENNINGTON (ADA) –SELF RIMMING 20–1/4"x17–1/2", 4"CENTER –FAUCET: SLOAN MODEL EBF–650, 0.5 GPM, –PRO–FLO PFGP101 OFFSET GRID DRAIN, PFPT108 P–TRAP W/CLEANOUT, PF203WH COVER,
CS1	COUNTER SINK –COUNTER MOUNT –EMPLOYEE BREAK ROOM – –		1–1/2"	1–1/2"	1/2"	1/2"	–	NOTE: (3) CS1 SINKS AND PLUMBING EQUIPMENT RELOCATED FROM BRYANT AND STRATTON BUILDING ON 200 REDTAIL.
CS2	COUNTER SINK –COUNTER MOUNT –PTA LAB – –		1–1/2"	1–1/2"	1/2"	1/2"	–	MANUFACTURER: ELKAY (ADA) MODEL: LRAD3122, 31"x22"(BOWL 28"x16"x6.5"D) 8"CENTER, FAUCET: CHICAGO MODEL: 201–A31CP, TWO HANDLE, SPOUT WITH STRAINER DRAIN AND P–TRAP
WHA	WATER HAMMER ARRESTER – – – –		–	–	–	–	–	MANUFACTURER: MIFAB MODEL: MWH –SIZE PER DRAWING –REFER TO SCHEDULE ON P–100
FD1	FLOOR DRAIN – – – –		3" OR 4"	2"	3/8"	–	–	MANUFACTURER: MIFAB MODEL: F1100–C–S, SQUARE DRAIN –CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, SATIN FINISHED NICKEL BRONZE STRAINER
DW1	DISHWASHER – – – –		–	–	–	1/2"	–	SPECIFIED BY OWNER, PROVIDED AND INSTALLED BY PLUMBHER

NOTES:

1. ROUGH ACCORDING TO ABOVE SCHEDULE UNLESS OTHERWISE INDICATED ON DRAWINGS.
2. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE PLUMBING INSTALLATION AS SPECIFIED IN SPECIFICATIONS AND ON DRAWINGS. (SYSTEM TO BE A COMPLETE AND OPERATIONAL UPON COMPLETION)
3. PROVIDE ACCESS PANEL ON ALL NON–ACCESSIBLE CEILINGS BELOW PLUMBING VALVES.
4. REFER TO DRAWINGS FOR ADDITIONAL PLUMBING EQUIPMENT SPECIFICATIONS.
5. PLUMBING FIXTURES MANUFACTURER (TOILETS, LAVATORIES, SINKS AND ACCESSORIES) TO BE COORDINATED WITH OWNER'S REPRESENTATIVE PRIOR TO ORDERING.
6. PLUMBING FIXTURES/EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

ADA ACCESS NOTES

1. TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.
2. HOT WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

LEGEND

- NG — NATURAL GAS PIPING
- DCW/CW — DOMESTIC COLD WATER
- DHW/HW — DOMESTIC HOT WATER (115°F)
- CIRC — CIRCULATING HOT WATER (110°F)
- SAN/S — SANITARY SEWER LINE
- V/VT — VENT LINE
- BALL VALVE
- UNION
- GAS VALVE
- CHECK VALVE
- POINT OF PIPE CONNECTION (NEW PLUMBING TO EXISTING PLUMBING)
- VENT THROUGH ROOF
- FLOOR DRAIN WITH TRAP
- FLOOR CLEANOUT
- DRAIN HUB WITH TRAP
- 1 / P–101 — DETAIL OR FLOOR PLAN NUMBER / DRAWING NUMBER

ABBREVIATIONS

DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
CIRC	CIRCULATING HOT WATER
NG	NATURAL GAS
SAN	SANITARY SEWER
V/VT	VENT
VTR	VENT THROUGH ROOF
FCO	FLOOR CLEANOUT
WCO	WALL CLEANOUT
POC	POINT OF CONNECTION
SOV	SHUTOFF VALVE
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
CFH	CUBIC FEET PER HOUR
MEP	MECHANICAL–ELECTRICAL–PLUMBING

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE SIZE AND GENERAL ARRANGEMENT OF PIPING, EQUIPMENT, ETC. EXACT LOCATIONS AND ROUTINGS SHALL BE DETERMINED IN THE FIELD BEFORE AND AS THE WORK PROGRESSES. CAREFULLY COORDINATE THE WORK OF THIS TRADE WITH ALL OTHER TRADES.

B. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATION, ETC. WHICH MAY BE REQUIRED BY ACTUAL FIELD CONDITIONS. THE CONTRACTOR IS TO FIELD VERIFY CONDITIONS PRIOR TO INSTALLATION AND MAKE SUCH CHANGES IN PIPING, EQUIPMENT LOCATIONS, ETC. AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS. COORDINATE ALL CHANGES WITH OTHER TRADES AND ARCHITECT/ENGINEER.

C. ALL CUTTING AND PATCHING OF BUILDING COMPONENTS REQUIRED TO ACCOMMODATE THE WORK OF THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THIS CONTRACT. ALL PATCHING SHALL MATCH THE EXISTING COMPONENTS AND FINISHES. CUTTING AND PATCHING WORK SHALL BE PERFORMED BY PERSONNEL TRAINED AND REGULARLY EMPLOYED FOR SUCH SERVICES.

GENERAL PLUMBING NOTES

1. GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING WORKING DRAWINGS.
2. THE WORK SHALL BE EXECUTED IN STRICT CONFORMITY WITH BASE BUILDING SPECIFICATION AND WITH THE LATEST EDITION OF THE PREVAILING LOCAL PLUMBING AND BUILDING CODES AND ALL LOCAL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE THE MORE STRINGENT STANDARD SHALL APPLY.
3. ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE PROCEEDING WITH INSTALLATION.
4. NO CHANGES ARE TO BE MADE IN PLUMBING LAYOUT WITHOUT WRITTEN PERMISSION BY THE ENGINEER OF RECORD.
5. NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
6. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
7. ROUGH–IN DIMENSIONS OF TOILET FIXTURES MUST BE COORDINATED WITH GENERAL CONTRACTOR AND FIELD SUPERVISOR.
8. INSTALL BALL VALVES ON ALL BRANCH SUPPLY LINES.
9. PROVIDE ACCESS PANELS ON ALL INACCESSIBLE VALVES AND CLEANOUTS. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION. MOUNT SHUT–OFF VALVES NO HIGHER THAN 12"–8" AFF.
10. ALL WORK SHALL BE PROPERLY TESTED, BALANCED AND CLEANED. PROVIDE A ONE (1) YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
11. FOLLOW PDI STANDARDS FOR WATER HAMMER ARRESTORS.
12. ALL FIXTURES TO BE SUPPLIED AND INSTALLED BY PLUMBING CONTRACTOR.
13. SANITARY SEWER PIPING SHOWN IS BASED ON 0.125"/FT FOR 3"–6" & 0.25"/FT FOR 2–1/2" OR LESS FOR ALL PIPING. COORDINATE BUILDING SEWER LOCATION AND INVERT ELEVATION WITH CIVIL DRAWINGS.
14. TRAP PRIMERS ARE TO BE PROVIDED AT ALL FLOOR DRAIN LOCATIONS.

HAMMER ARRESTOR SCHEDULE

P.D.I. UNITS	FIXTURE UNITS	PIPE SIZE	REMARKS
A	1 – 11	1/2"	–
B	12 – 32	3/4"	–
C	33 – 60	1"	–
D	61 – 113	1–1/4"	–
E	114 – 154	1–1/2"	–
F	155 – 330	2"	–

INSTALL WATER HAMMER ARRESTOR PER PDI

PLUMBING SPECIFICATIONS

DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

PLUMBING WORK SHALL BE AS INDICATED ON THE PLANS AND AS HEREIN SPECIFIED. WORK SHALL CONSIST OF PROVIDING A COMPLETE AND OPERATIONAL SYSTEM INCLUDING ALL FIXTURES, PIPING, VALVES, AND OTHER REQUIRED DEVICES, EQUIPMENT, ETC. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS. WHERE THERE ARE CONFLICTS BETWEEN THE PLANS, SPECIFICATIONS, AND CODE REQUIREMENTS, THE CONTRACTOR SHALL MAKE ANY ADJUSTMENTS AS REQUIRED FOR COMPLIANCE WITH ALL CODES AND FOR APPROVAL OF THE SYSTEM. THE SYSTEM SHALL EXTEND TO AND CONNECT INTO THE EXISTING PROJECT WATER AND WASTE SYSTEM AS INDICATED ON THE DRAWINGS.

WHENEVER A MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT IS IDENTIFIED ON THE DRAWINGS BY REFERENCE TO MANUFACTURERS' OR VENDORS NAMES, TRADE NAMES, CATALOG NUMBERS, OR THE LIKE, IT IS SO IDENTIFIED FOR THE PURPOSE OF ESTABLISHING A STANDARD, AND ANY MATERIAL, ARTICLE, OR PIECE OF EQUIPMENT OF OTHER MANUFACTURERS OR VENDORS WHICH WILL PERFORM ADEQUATELY THE DUTIES IMPOSED BY THE GENERAL DESIGN WILL BE CONSIDERED EQUALLY ACCEPTABLE PROVIDED THE MATERIAL, ARTICLE OR PIECE OF EQUIPMENT SO PROPOSED IS, IN THE OPINION OF THE ARCHITECT/ENGINEER, OF EQUAL SUBSTANCE, APPEARANCE, AND FUNCTION. THE MATERIAL, ARTICLE OR PIECE OF EQUIPMENT SHALL NOT BE PURCHASED OR INSTALLED BY THE CONTRACTOR WITHOUT THE ARCHITECT'S/ ENGINEER'S WRITTEN APPROVAL.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, SHOP DRAWINGS AND/OR MANUFACTURERS SUBMITTAL DATA WITH CAPACITY AND CHARACTERISTICS OF ALL MATERIAL AND EQUIPMENT FOR APPROVAL PRIOR TO PURCHASE AND OR INSTALLATION OF THE WORK. A MINIMUM OF FIVE (5) COPIES SHALL BE SUBMITTED. SUBMITTALS SHALL BE IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.

THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BEGINNING WORK FOR THE PURPOSE OF OBSERVING EXISTING CONDITIONS AND TO DETERMINE THE EXTENT OF THE WORK. THE CONTRACTOR SHALL MAKE ALLOWANCES FOR PROVIDING ALL MATERIAL, EQUIPMENT, AND LABOR AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS, SPECIFICATIONS, AND ALL CODE REQUIREMENTS.

ALL WATER AND CONDENSATE PIPING SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS. JOINTS SHALL BE SOLDERED WITH LEAD FREE SOLDER. ALL EXPOSED PIPING SHALL BE CHROME PLATED. WASTE AND VENT SHALL BE SERVICE WEIGHT CAST IRON WITH EITHER NO–HUB OR "CHARLOTTE SEAL" JOINTS. NO–HUB JOINTS ARE NOT PERMITTED BELOW GRADE. ALL EQUIPMENT REQUIRING PLUMBING CONNECTIONS SHALL BE CONNECTED BY THE PLUMBER REGARDLESS OF WHO PROVIDES THE EQUIPMENT OR FIXTURE. UNDERGROUND WATER PIPING SHALL BE TYPE "K" COPPER OR SCHEDULE 40 PVC. FORCED MAINS SHALL BE PVC OR APPROVED EQUAL.

ALL COLD AND CONDENSATE WATER PIPING ABOVE GRADE SHALL BE INSULATED (HOT/CIRCULATING WATER PIPING MINIMUM 1" THICK 3 PCF DENSITY FIBERGLASS PIPE COVERING WITH VAPOR BARRIER JACKET OR AS REQUIRED BY CODE), (COLD WATER AND CONDENSATE PIPING 1/2"INSULATION UP TO 2" PIPE AND 1"INSULATION ON 2–1/2"PIPE AND ABOVE WITH 3 PCF DENSITY FIBERGLASS PIPE COVERING WITH VAPOR BARRIER JACKET OR AS REQUIRED BY CODE). ALL JOINTS SHALL BE LAPPED AND SEALED WITH AN APPROVED TYPE ADHESIVE AND END STRIPS AS RECOMMENDED BY THE INSULATION SUPPLIER AND/OR MANUFACTURER.

HORIZONTAL STORM/SEWER PIPING ABOVE GRADE SHALL BE INSULATED WITH MINIMUM 1" THICK 3 PCF DENSITY FIBERGLASS PIPE COVERING WITH VAPOR BARRIER JACKET OR AS REQUIRED BY CODE. ALL JOINTS SHALL BE LAPPED AND SEALED WITH AN APPROVED TYPE ADHESIVE AND END STRIPS AS RECOMMENDED BY THE INSULATION SUPPLIER AND/OR MANUFACTURER. (TO AVOID CONDENSATION) DRAIN HUBS TO BE INSULATED.

VACUUM BREAKERS SHALL BE PROVIDED FOR ALL HOSE CONNECTIONS AND OTHER POINTS WHERE CROSS CONTAMINATION CAN OCCUR. REDUCED PRESSURE BACKFLOW PREVENTERS SHALL BE PROVIDED WHERE REQUIRED BY CODE. ALL FIXTURES, HOSE BIBBS, FLOOR DRAINS, ETC., SHALL BE PROVIDED AS INDICATED AND SCHEDULED ON THE PLANS. THE SYSTEM SHALL BE TESTED, CLEANED, AND DISINFECTED IN ACCORDANCE WITH ALL STATE AND LOCAL REQUIREMENTS.

THE ENTIRE PLUMBING SYSTEM SHALL BE UNCONDITIONALLY GUARANTEED FOR ONE (1) YEAR FROM ACCEPTANCE BY THE OWNER. ALL GUARANTEES SHALL BE WRITTEN, DATED, AND FORWARDED TO THE OWNER. ALL DEFECTIVE EQUIPMENT AND/OR MATERIAL SHALL BE REPLACED AT NO EXPENSE TO THE OWNER.

AT THE CONTRACTOR'S OPTION, PVC MAY BE UTILIZED ABOVE GRADE IN CONCEALED LOCATIONS FOR DWV SYSTEM, SUBJECT TO CODE COMPLIANCE. APPROVAL FROM OWNER/TENANT OR LOCAL INSPECTOR IS REQUIRED.

AT THE CONTRACTOR'S OPTION, PEX PIPING MAY BE UTILIZED ABOVE GRADE SUBJECT TO CODE COMPLIANCE. APPROVAL FROM OWNER/TENANT OR LOCAL INSPECTOR IS REQUIRED. PEX–A (UPONOR–PEX–A AQUAPEX TUBING), PIPING AND FITTINGS (UPONOR PROPEX F1960)

PVC/CPVC PIPING SHALL HAVE A FLAME SPREAD RATING LESS THAN 25 AND A SMOKE DEVELOPMENT RATING LESS THAN 50.

GAS PIPING – SCHEDULE 40 BLACK STEEL WITH MALLEABLE SCREWED FITTING IN SIZE UP TO 3". AND OVER 3" TO BE SCHEDULE 40 BLACK STEEL WITH WELDED FITTINGS.

NATURAL GAS PIPING – COORDINATE ALL NEW GAS LINES ROUTING PER PLANS IN FIELD. PAINT EXTERIOR GAS PIPING AND SUPPORTS TWO COATS EXTERIOR ENAMEL.

INSTALL EQUIPMENT AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.

PIPES PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL AND FLOOR LOCATIONS.

ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE RESPECTIVE CONTRACTORS ARE RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.

ALL PLUMBING SERVICE PIPING USE ON PROJECT TO MEET ALL STATE AND LOCAL CODES. COORDINATE USE OF PVC PIPING ABOVE AND BELOW GRADE WITH LOCAL AUTHORITIES PRIOR TO WORK START–UP. (NATURAL GAS, WASTE, STORM, VENT, DOMESTIC HOT, COLD AND CIRCULATING WATER LINES)

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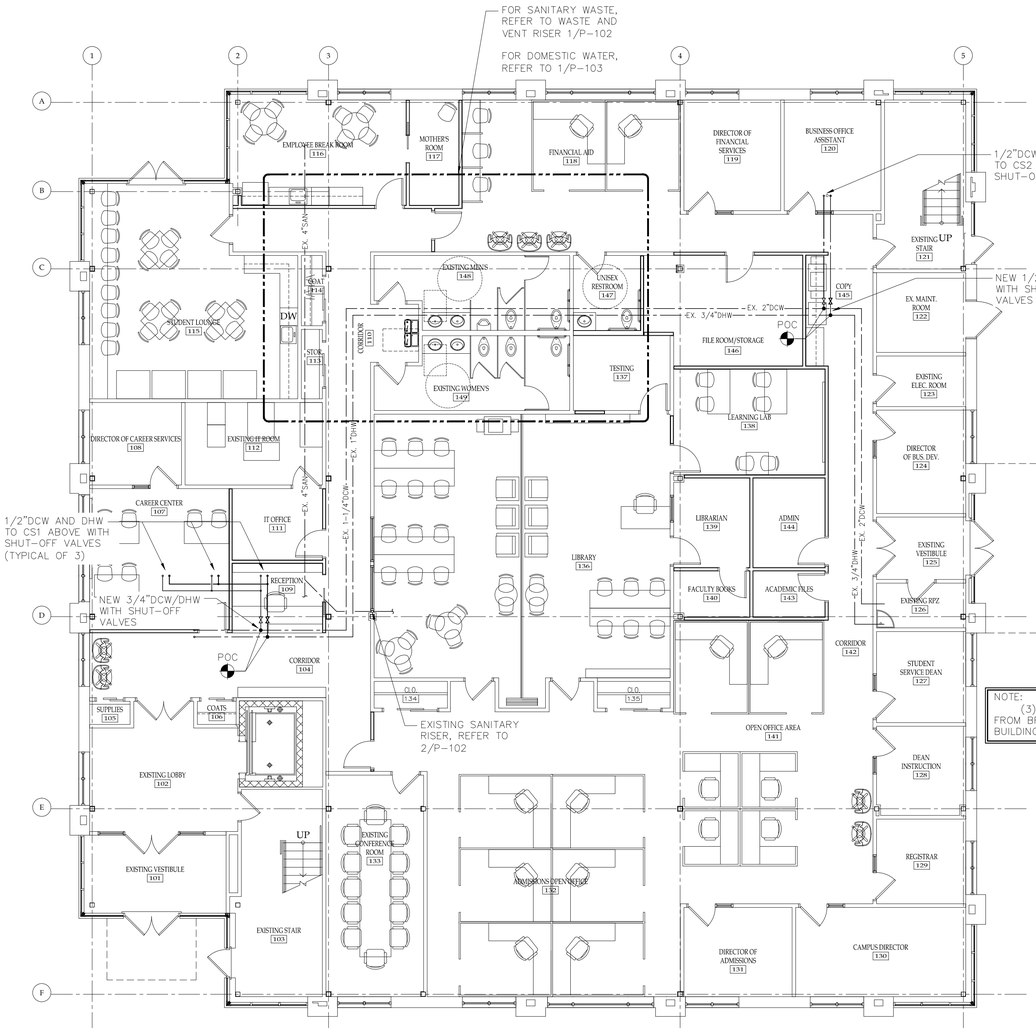

GENERAL NOTES:

1. PROVIDE FIRESTOP AROUND ALL PIPES PENETRATING FIRE RATED WALLS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION OF FIRE WALLS WITH ARCHITECTURAL DRAWINGS.
2. COORDINATE EXACT LOCATION OF EXISTING PLUMBING SERVICES IN FIELD (NATURAL GAS, DOMESTIC WATER, SANITARY SEWER AND VENT LINES).
3. MINIMUM SANITARY SEWER LINE UNDERSLAB 3".
4. MINIMUM WATER LINE ABOVE CEILING 3/4".
5. PROVIDE HEAT-TRAP AT WATER LINES TO DOMESTIC WATER HEATER.

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Project # 17-06-07

Bryant & Stratton
180 Redtail
Orchard Park NY

ISSUE:

SA PROJECT TEAM: PRINCIPAL P.Silvestri
PROJ. ARCH. _____ DRAFTER _____
JOB CAPT. S.Hunt INTERIORS N.Catuzza

SEAL:

TITLE:

FLOOR PLANS

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SA JOB #: 17033.02
DATE: 10-18-2017

DRAWING #: P-101

GENERAL NOTES:

1. PROVIDE FIRESTOP AROUND ALL PIPES PENETRATING FIRE RATED WALLS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION OF FIRE WALLS WITH ARCHITECTURAL DRAWINGS.
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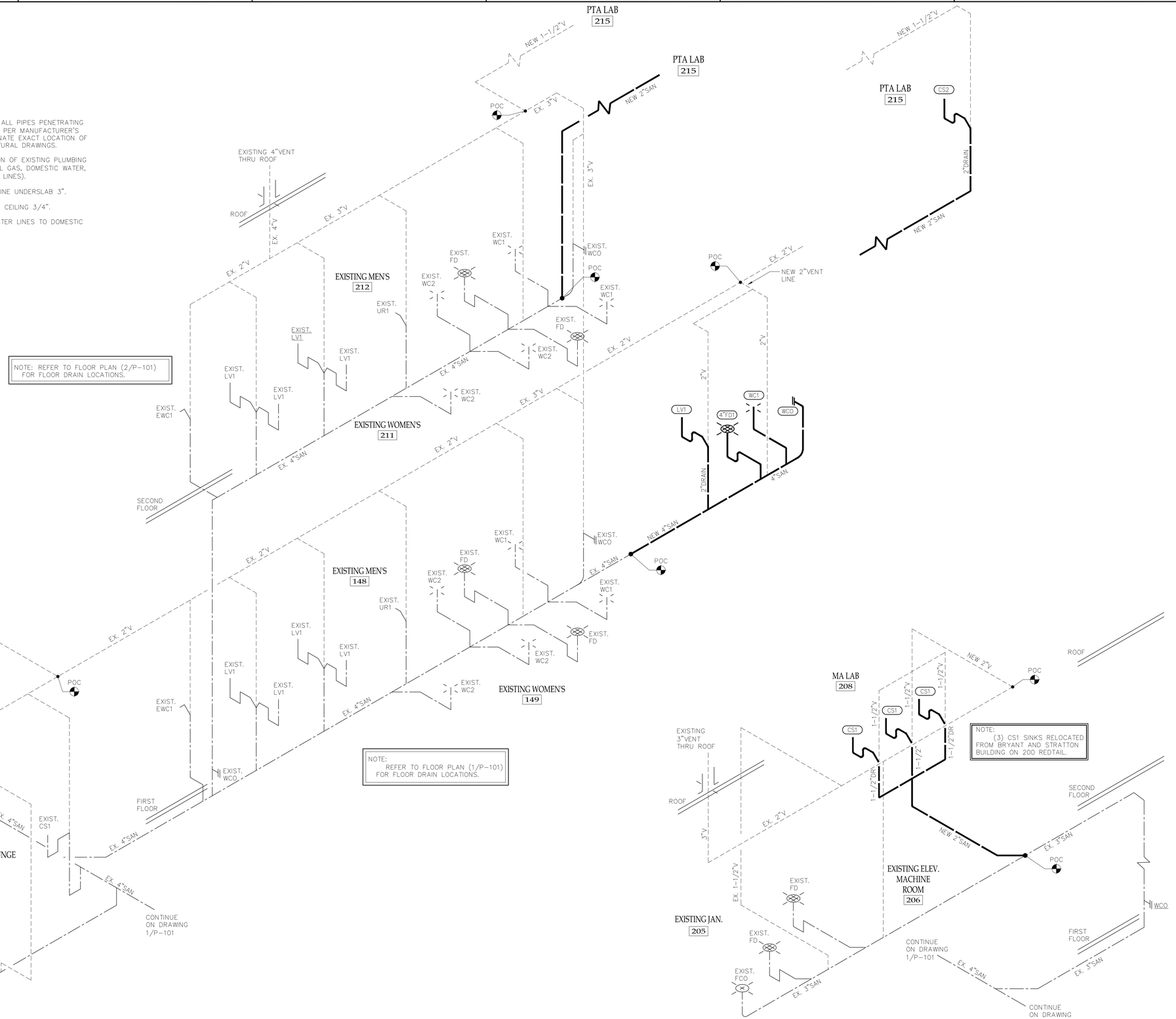

1 P-102 WASTE AND VENT RISER
SCALE: NONE

2 P-102 WASTE AND VENT RISER
SCALE: NONE

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RISER DIAGRAMS

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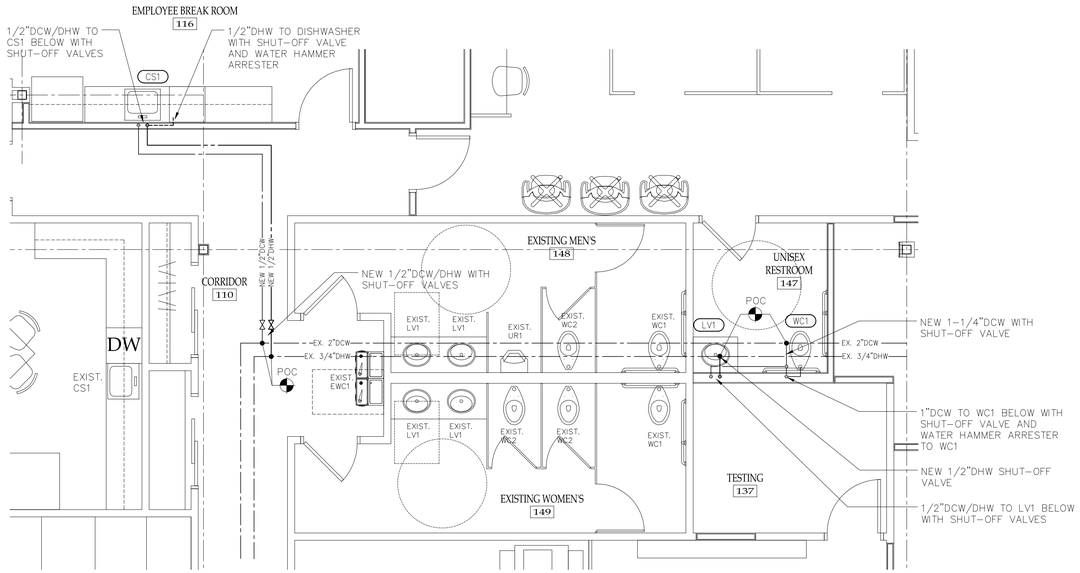
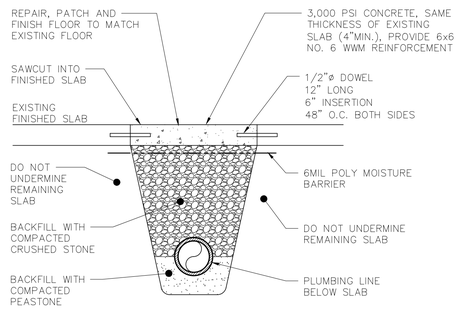
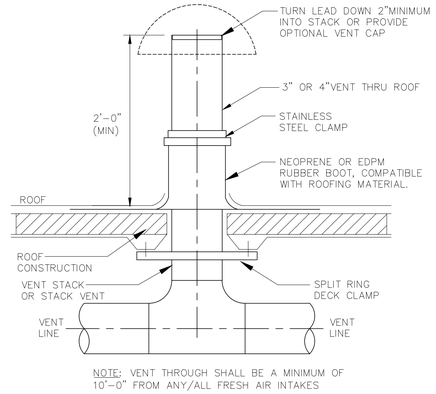


1 P-103 ENLARGED PARTIAL FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

NOTE:
IN AREAS WHERE FLOOR IS BEING REMOVED FOR REMOVAL OR ADDITION OF PLUMBING, REPAIR, PATCH AND FINISH FLOOR TO MATCH EXISTING FLOOR UPON COMPLETION OF WORK.



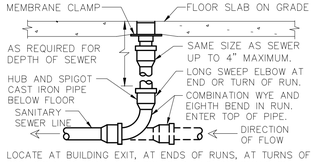
2 P-103 SAWCUT DETAIL
SCALE : NONE



NOTE: VENT THROUGH SHALL BE A MINIMUM OF 10'-0" FROM ANY/ALL FRESH AIR INTAKES

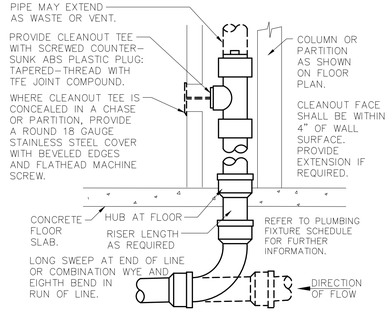
3 P-103 VENT THRU ROOF DETAIL
SCALE : NONE

ROUND SECURED GASKETED NICKEL BRONZE ADJUSTABLE TOP WITH "CO" CAST IN COVER. PROVIDE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS). PROVIDE GASKETED PLASTIC PLUG IN CAST IRON BODY. USE TEFLON JOINT COMPOUND ON PLUG THREADS. CLEAN THE TOP OF EXPOSED FCO AFTER INSTALLATION.

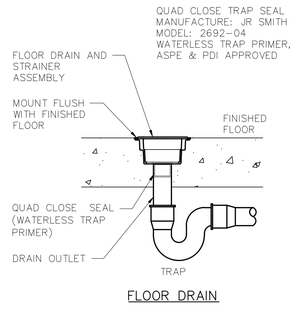


LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS. PROVIDE BACK FILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANOUTS WHERE THERE IS 18" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

4 P-103 FLOOR CLEANOUT DETAIL
SCALE : NONE

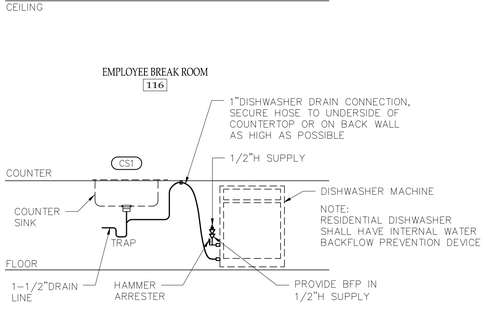


5 P-103 WALL CLEANOUT DETAIL
SCALE : NONE

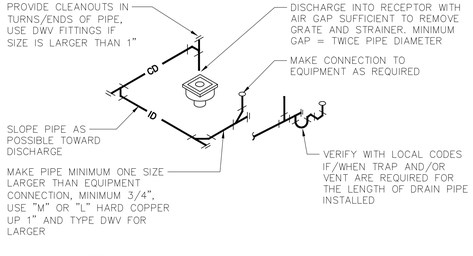


FLOOR DRAIN

6 P-103 FLOOR DRAIN SURE SEAL DETAIL
SCALE: NONE



7 P-103 KITCHEN SINK DETAIL
SCALE: NONE



NOTE:
ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

8 P-103 CONDENSATE DRAIN DETAIL
SCALE: NONE

GENERAL NOTES:

1. PROVIDE FIRESTOP AROUND ALL PIPES PENETRATING FIRE RATED WALLS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION OF FIRE WALLS WITH ARCHITECTURAL DRAWINGS.
2. COORDINATE EXACT LOCATION OF EXISTING PLUMBING SERVICES IN FIELD (NATURAL GAS, DOMESTIC WATER, SANITARY SEWER AND VENT LINES).
3. MINIMUM SANITARY SEWER LINE UNDERSLAB 3".
4. MINIMUM WATER LINE ABOVE CEILING 3/4".
5. PROVIDE HEAT-TRAP AT WATER LINES TO DOMESTIC WATER HEATER.

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SA JOB #: 17033.02
DATE: 10-18-2017

DRAWING #: P-103

LIGHTING FIXTURE SCHEDULE

LF-1 — REINSTALL EXISTING 1'X8' PENDANT MOUNTED DIRECT/INDIRECT FLUORESCENT REMAINING FROM DEMOLITION

NOTE: COORDINATE FINAL MOUNTING HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.

LF-2 — 6" RECESSED LED DOWNLIGHT
EATON PORTFOLIO SERIES #LD6B-30-D010, EU6B-3050-90-35, 6LB-W-2-LI

LF-3 — 2'X4' RECESSED DIRECT/INDIRECT FLUORESCENT FIXTURE
MATCH EXISTING BUILDING FIXTURE MANUFACTURER AND STYLE.

LF-4 — NOT USED.

LF-5 — 1'X4' PENDANT MOUNTED DIRECT/INDIRECT FLUORESCENT
MATCH LF-1 MANUFACTURER AND STYLE(FIXTURE SHALL BE A 1'X4' VERSION OF TYPE LF-1).

NOTE: COORDINATE FINAL MOUNTING HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.

LF-6 — 1'X4' SURFACE MOUNTED LED WRAPAROUND
EATON METALUX SERIES #4WSNLED-LD4-32SL-F-UNV-L835-CD1-U

ILLUMINATED "EXIT" SIGN. EXTRUDED ALUMINUM HOUSING, AC ONLY.

LAMP(S): MULTIPLE, LONG LIFE (25YR), LIGHT EMITTING DIODES (LED)
MFGS. &: LITHONIA EDG SERIES
CAT. NO. #EDG-R-SD, SINGLE/DOUBLE SIDED AND CHEVRONS PER DRAWINGS.

LIGHTING FIXTURE SCHEDULE NOTES:

1. EC SHALL COORDINATE ALL LIGHTING FIXTURE COLORS AND FINISHES WITH ARCHITECT PRIOR TO ORDERING.
2. PROVIDE 35K LAMPS FOR ALL LIGHTING FIXTURES.

ELECTRICAL SYMBOL LIST

LIGHTING

$3,a	120V LIGHTING WALL SWITCHES, 1 POLE IF NO NOTATION. 3=3 WAY, 4=4 WAY, K=KEY TYPE. II=NUMBER OF SWITCHES (ROMAN NUMERALS). LOWER CASE LETTER INDICATES SWITCH LEG IF APPLICABLE.
⊗	EXIT LIGHT FIXTURE, CEILING MOUNTED REFERENCE LIGHTING FIXTURE SCHEDULE.
$	SINGLE POLE TOGGLE SWITCH, 44" AFF
$3	SWITCH, THREE WAY, 44" AFF
$4	SWITCH, FOUR WAY, 44" AFF
$VC	VACANCY SENSOR SWITCH, WALL BOX STYLE, 44" AFF, REF. DETAILS SHEET E-501
$DVC	DIMMING VACANCY SENSOR SWITCH, WALL BOX STYLE, 44" AFF, REF. DETAILS SHEET E-501
$D	LOW VOLTAGE, DIGITAL DIMMING SWITCH, WALL BOX STYLE, 44" AFF, REF. DETAILS SHEET E-501
$LV	LOW VOLTAGE, DIGITAL SWITCH, WALL BOX STYLE, 44" AFF, REF. DETAILS SHEET E-501
VS	VACANCY SENSOR, DIGITAL ADDRESSABLE TYPE, REF. DETAILS SHEET E-501
DH	DAYLIGHT HARVESTING DEVICE, DIGITAL ADDRESSABLE TYPE, REF. DETAILS SHEET E-501
OS1	OCCUPANCY SENSOR, DIGITAL ADDRESSABLE TYPE, REF. DETAILS SHEET E-501
OS2	OCCUPANCY SENSOR, ANALOG TYPE, REF. DETAILS SHEET E-501
EM/NL	2' x 4' RECESSED FIXTURE WIRED UNSWITCHED, UNCONTROLLED TO EMERGENCY LIGHTING CIRCUIT.
	2' x 4' RECESSED FIXTURE
EM/NL	1' x 4' CEILING/PENDANT MOUNTED FIXTURE WIRED UNSWITCHED, UNCONTROLLED TO EMERGENCY LIGHTING CIRCUIT.
	1' x 4' CEILING/PENDANT MOUNTED FIXTURE
EM/NL	RECESSED DOWNLIGHT WIRED UNSWITCHED, UNCONTROLLED TO EMERGENCY LIGHTING CIRCUIT.
	RECESSED DOWNLIGHT

ELECTRICAL SYMBOL LIST

POWER

#	REFERENCE TO DRAWING NOTE. "#" INDICATES NUMBER OF NOTE
	SURFACE MOUNT PANEL BOARD.
	RECESSED MOUNT PANEL BOARD.
JB	JUNCTION BOX, SIZE INDICATED OR PER NEC.
	120V, 20A GFI RECEPTACLE
	120V, 20A DUPLEX RECEPTACLE
	120V, 20A SIMPLEX RECEPTACLE
	(2) 120V, 20A DUPLEX RECEPTACLES INSTALLED IN COMMON OUTLET BOX UNDER COMMON 2-GANG COVER
	(2) 120V, 20A DUPLEX RECEPTACLES INSTALLED IN COMMON OUTLET BOX UNDER COMMON 2-GANG COVER
6-30R	SPECIAL PURPOSE RECEPTACLE SUBSCRIPT INDICATES TYPE
	120V, 20 AMP PRE-WIRED CUBICLE CONNECTION. EC TO MAKE COMPLETE CONNECTION TO PRE-WIRED CUBICLE UNITS. STANDARD SHALL BE THREE(3) CUBICLES PER 20A CIRCUIT. PROVIDE ONE 1" CONDUIT WITH PULLWIRE FOR EVERY THREE(3) CUBICLES FOR COMMUNICATIONS CABLING INSTALLATION BY OTHERS. ROUTE 1" COMMUNICATIONS CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. WHERE CUBICLE ARE NOT LOCATED NEAR WALLS OR COLUMNS, EC SHALL ROUTE CONDUITS IN SLAB AS REQUIRED. POWER POLES WILL NOT BE PERMITTED. PROVIDE ALL NECESSARY PROTECTIVE GROMMETS AND BACKBOXES FOR A COMPLETE INSTALLATION.
x	INDICATES CONTRACTOR SHALL PROVIDE COMPLETE 120V OR 208V AC CONNECTION TO EQUIPMENT. "x" INDICATES EQUIPMENT TAG. REFERENCE EQUIPMENT WIRING SCHEDULE.
D	NEMA 1 DISCONNECT SWITCH, SIZE AND TYPE AS INDICATED ON DRAWINGS.

ELECTRICAL SYMBOL LIST

FIRE ALARM

F	FIRE ALARM SYSTEM, MANUAL PULL STATION
F	FIRE ALARM SYSTEM, HORN/STROBE NOTIFICATION APPLIANCE
F	FIRE ALARM SYSTEM, STROBE ONLY
HD	FIRE ALARM SYSTEM, THERMODETECTOR, FIXED TEMPERATURE 190°F, UNLESS INDICATED OTHERWISE.
SD	FIRE ALARM SYSTEM, SMOKE DETECTOR
TS	SPRINKLER SYSTEM TAMPER SWITCH
FS	SPRINKLER SYSTEM FLOW SWITCH
RA	REMOTE ANNUNICATOR
FACP	FIRE ALARM CONTROL PANEL

ELECTRICAL SYMBOL LIST

COMMUNICATION & SECURITY

TV	CABLE TELEVISION OUTLET-PROVIDE 3/4" RACEWAY WITH PULLWIRE TO NEAREST ACCESSIBLE CEILING SPACE. REF. DETAILS
T	COMMUNICATIONS OUTLET, PROVIDE 3/4" RACEWAY WITH PULLWIRE TO NEAREST ACCESSIBLE CEILING SPACE. REF. DETAILS
T	TELEPHONE AND DATA FLUSH FLOOR MOUNTED BOX WITH QUAD RECEPTACLE, PROVIDE 3/4" RACEWAY FOR COMMUNICATIONS CABLING TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE INDEPENDENT POWER RACEWAY. ROUTE RACEWAYS IN SLAB AS REQUIRED.

ABBREVIATIONS

AC	AIR CONDITIONER
AF	ABOVE FLOOR
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
C	CONDUIT
CU	CONDENSING UNIT
DISC	DISCONNECT
EF	EXHAUST FAN
EM	EMERGENCY BALLAST
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WALL HEATER
F	FURNACE
FACP	FIRE ALARM CONTROL PANEL
FP	FIRE PLACE
GD	GARBAGE DISPOSAL
GFI	GROUND FAULT INTERRUPTER
MAU	MAKE UP AIR UNIT
MDP	MAIN DISTRIBUTION PANEL
OC	OVER COUNTER (+6" ABOVE COUNTER BACKSPLASH)
REC	RECESSED
RTU	ROOF TOP UNIT
UC	UNDER COUNTER
UF	UNDERFLOOR
UG	UNDERGROUND
WG	WIRE GUARD
WH	WATER HEATER
WP	WATERPROOF (OR) WEATHERPROOF

GENERAL NOTES:

A. CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR FOR POWER CONNECTIONS TO ALL MECHANICAL EQUIPMENT.

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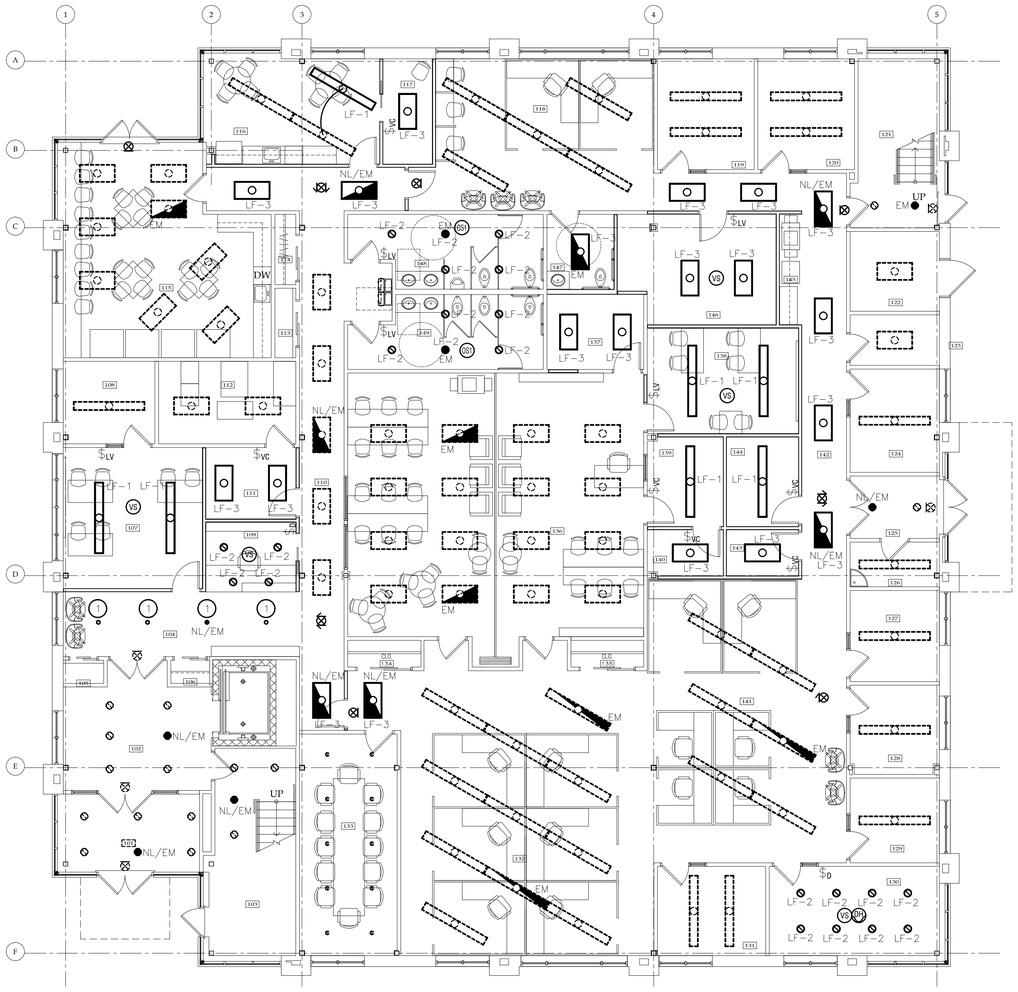

1 E-101 FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

KEYED DRAWING NOTES:

1. RELOCATE EXISTING FIXTURE APPROXIMATELY 2'. REFERENCE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS.

GENERAL DRAWING NOTES:

1. FIXTURES DESIGNATED WITH 'EM/NL' SHALL BE WIRED UNSWITCHED/UNCONTROLLED(ALWAYS ON) TO LOCAL EMERGENCY POWER CIRCUIT.
2. FIXTURES DESIGNATED WITH 'EM' SHALL BE WIRED TO LOCAL NORMAL AND EMERGENCY POWER BRANCH CIRCUITS USING UL-924 LISTED EMERGENCY LIGHTING TRANSFER RELAY, WATTSTOPPER ELCU-200.
3. WIRE RELOCATED AND NEW FIXTURES TO NEAREST LIGHTING PANELBOARD. MAXIMUM LIGHTING CIRCUIT LOAD SHALL BE 10 AMPS. PROPERLY DERATE CONDUCTORS PER NEC.
4. REFERENCE SHEETS E-501 AND E-502 FOR LIGHTING CONTROL WIRING DIAGRAMS.
5. WIRE ALL EXIT SIGNS UNSWITCHED/UNCONTROLLED TO LOCAL EMERGENCY POWER CIRCUIT.
6. TIE NEW NORMAL POWER CORRIDOR LIGHTING FIXTURES TO EXISTING LOCAL CORRIDOR LIGHTING CIRCUIT.
7. SALVAGE EXISTING LIGHTING CIRCUITS DURING DEMOLITION PHASE AND TAG FOR REUSE. RECONNECT RELOCATED AND NEW LIGHTING FIXTURES TO EXISTING TAGGED LIGHTING BRANCH CIRCUITS. MAXIMUM BRANCH CIRCUIT WATTAGE NOT TO EXCEED 1200 WATTS.

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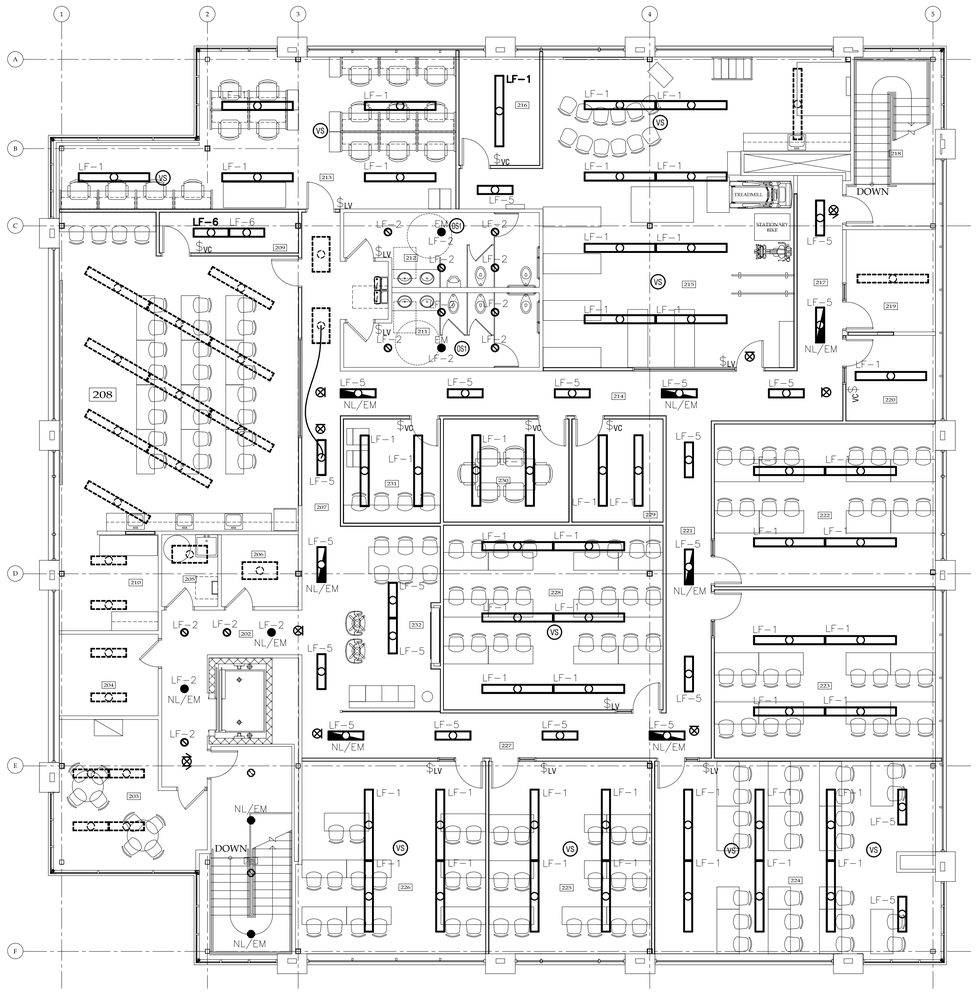

1 E-102 SCALE: 1/8" = 1'-0"

SECOND FLOOR LIGHTING PLAN

(#) KEYED DRAWING NOTES:

1. RELOCATE EXISTING FIXTURE APPROXIMATELY 2'. REFERENCE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS.

GENERAL DRAWING NOTES:

1. FIXTURES DESIGNATED WITH 'EM/NL' SHALL BE WIRED UNSWITCHED/UNCONTROLLED(ALWAYS ON) TO LOCAL EMERGENCY POWER CIRCUIT.
2. FIXTURES DESIGNATED WITH 'EM' SHALL BE WIRED TO LOCAL NORMAL AND EMERGENCY POWER BRANCH CIRCUITS USING UL-924 LISTED EMERGENCY LIGHTING TRANSFER RELAY, WATTSTOPPER ELCU-200.
3. WIRE RELOCATED AND NEW FIXTURES TO NEAREST LIGHTING PANELBOARD. MAXIMUM LIGHTING CIRCUIT LOAD SHALL BE 10 AMPS. PROPERLY DERATE CONDUCTORS PER NEC.
4. REFERENCE SHEETS E-501 AND E-502 FOR LIGHTING CONTROL WIRING DIAGRAMS.
5. WIRE ALL EXIT SIGNS UNSWITCHED/UNCONTROLLED TO LOCAL EMERGENCY POWER CIRCUIT.
6. TIE NEW NORMAL POWER CORRIDOR LIGHTING FIXTURES TO EXISTING LOCAL CORRIDOR LIGHTING CIRCUIT.
7. SALVAGE EXISTING LIGHTING CIRCUITS DURING DEMOLITION PHASE AND TAG FOR REUSE. RECONNECT RELOCATED AND NEW LIGHTING FIXTURES TO EXISTING TAGGED LIGHTING BRANCH CIRCUITS. MAXIMUM BRANCH CIRCUIT WATTAGE NOT TO EXCEED 1200 WATTS.

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SECOND FLOOR LIGHTING PLAN

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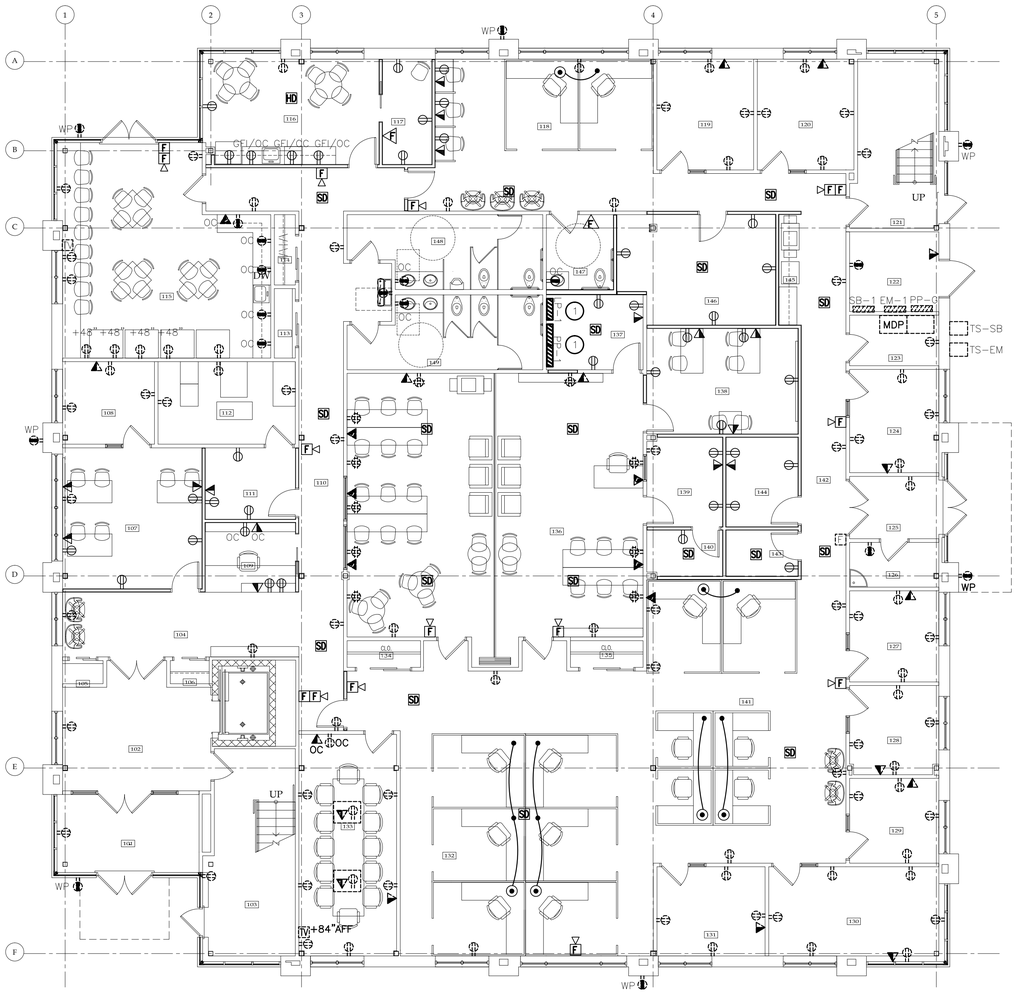

1 E-103 FIRST FLOOR POWER & SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

KEYED DRAWING NOTES:

1. RELOCATE EXISTING PANELBOARD SOUTH APPROXIMATELY 10 FEET. MODIFY/EXTEND EXISTING PANELBOARD FEEDER AND BRANCH CIRCUIT WIRING AS FIELD REQUIRED.

GENERAL DRAWING NOTES:

1. EC TO MAKE COMPLETE CONNECTION TO PRE-WIRED CUBICLE UNITS. STANDARD SHALL BE THREE(3) CUBICLES PER 20A CIRCUIT. PROVIDE ONE 1" CONDUIT WITH PULLWIRE FOR EVERY THREE(3) CUBICLES FOR COMMUNICATIONS CABLING INSTALLATION BY OTHERS. ROUTE 1" COMMUNICATIONS CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. WHERE CUBICLE ARE NOT LOCATED NEAR WALLS OR COLUMNS, EC SHALL ROUTE CONDUITS IN SLAB AS REQUIRED. POWER POLES WILL NOT BE PERMITTED. PROVIDE ALL NECESSARY PROTECTIVE GROMMETS AND BACKBOXES FOR A COMPLETE INSTALLATION.
2. WIRE NEW RECEPTACLES TO NORMAL POWER CIRCUITS MADE AVAILABLE DURING DEMOLITION PHASE. WIRE A MAXIMUM OF 6 GENERAL PURPOSE DUPLEX RECEPTACLES PER 20A, 120V CIRCUIT USING #12AWG. WIRE A MAXIMUM OF 4 COMPUTER DUPLEX RECEPTACLES PER 20A, 120V CIRCUIT USING #12AWG. DERATE WIRING TO #10AWG FOR RUNS OVER 100'.

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JOB CAPT. S.Hunt INTERIORS N.Catuzza

SEAL:

TITLE:
FIRST FLOOR POWER & SYSTEMS PLAN

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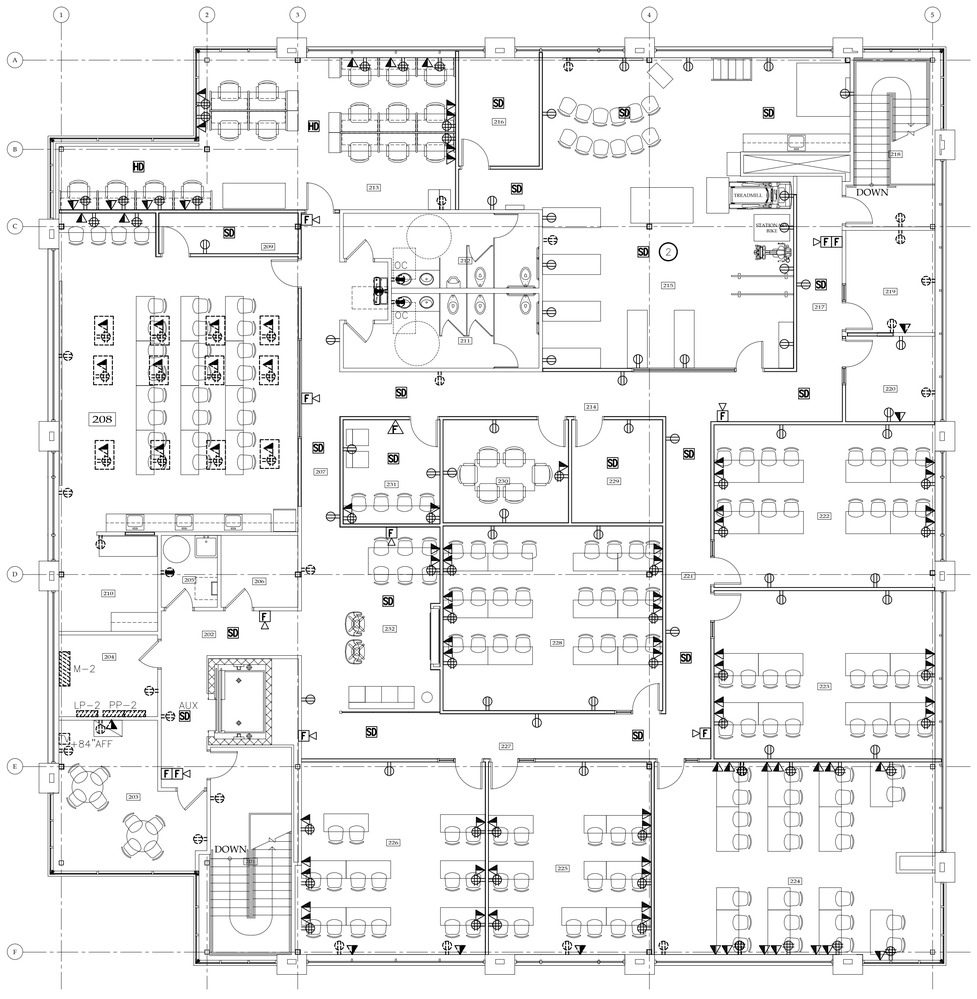
SA JOB #: 17033.02
DATE: 10-18-2017

DRAWING #: E-103



1 E-104 SECOND FLOOR POWER & SYSTEMS PLAN

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

KEYED DRAWING NOTES:

1. RELOCATE EXISTING PANELBOARD SOUTH APPROXIMATELY 10 FEET. MODFIY/EXTEND EXISTING PANELBOARD FEEDERS AND BRANCH CIRCUIT WIRING AS FIELD REQUIRED.
2. EC TO VERIFY PTA LAB 215 EQUIPMENT CONNECTION AND LOAD REQUIREMENTS AND CIRCUIT CORRESPONDING RECEPTACLES ACCORDINGLY. VERIFY WITH OWNER PRIOR TO ROUGH-IN.

GENERAL DRAWING NOTES:

1. EC TO MAKE COMPLETE CONNECTION TO PRE-WIRED CUBICLE UNITS. STANDARD SHALL BE THREE(3) CUBICLES PER 20A CIRCUIT. PROVIDE ONE 1" CONDUIT WITH PULLWIRE FOR EVERY THREE(3) CUBICLES FOR COMMUNICATIONS CABLING INSTALLATION BY OTHERS. ROUTE 1" COMMUNICATIONS CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. WHERE CUBICLE ARE NOT LOCATED NEAR WALLS OR COLUMNS, EC SHALL ROUTE CONDUITS IN SLAB AS REQUIRED. POWER POLES WILL NOT BE PERMITTED. PROVIDE ALL NECESSARY PROTECTIVE GROMMETS AND BACKBOXES FOR A COMPLETE INSTALLATION.
2. WIRE NEW RECEPTACLES TO NORMAL POWER CIRCUITS MADE AVAILABLE DURING DEMOLITION PHASE. WIRE A MAXIMUM OF 6 GENERAL PURPOSE DUPLEX RECEPTACLES PER 20A, 120V CIRCUIT USING #12AWG. WIRE A MAXIMUM OF 4 COMPUTER DUPLEX RECEPTACLES PER 20A, 120V CIRCUIT USING #12AWG. DERATE WIRING TO #10AWG FOR RUNS OVER 100'.

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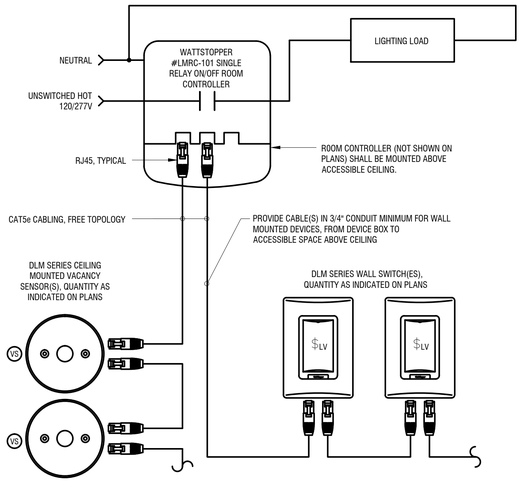


CONTROL NARRATIVE:

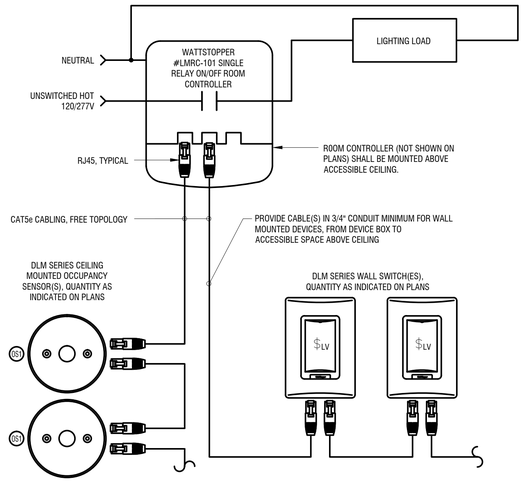
1. SYSTEM SHALL BE PROGRAMMED FOR MANUAL-ON CONTROL. VACANCY SENSOR SHALL TURN LIGHTING 'OFF' AFTER A TIME PERIOD OF VACANCY DETERMINED BY OWNER (UP TO A MAXIMUM OF 30 MINUTES).
2. LOW VOLTAGE SWITCH SHALL TURN LIGHTING 'ON'/'OFF' WITH A TAP OF THE SWITCH.
3. SWITCHES SHALL ALLOW MULTIPLE LOCATION FUNCTIONALITY (IE. 3-WAY, 4-WAY, OR MORE AS SHOWN).

GENERAL NOTES:

1. ALL EQUIPMENT INDICATED IS AS MANUFACTURED BY WATTSTOPPER, 'DLM' SERIES.
2. PROVIDE BACKBOX FOR ALL DEVICES
3. EQUIPMENT GROUND CONDUCTOR NOT SHOWN ON SCHEMATIC, BUT IS REQUIRED.
4. DIAGRAM IS SCHEMATIC IN NATURE, REFER TO MANUFACTURERS INSTRUCTIONS FOR SPECIFIC REQUIREMENTS
5. INSTALLATIONS SHALL COMPLY WITH REQUIREMENT SET FORTH IN IECC 2015, SECTION C405.

LIGHTING CONTROL SCHEMATIC - NON DIMMING DIGITAL VACANCY SENSOR

1 / E-105 SCALE: N.T.S.



CONTROL NARRATIVE:

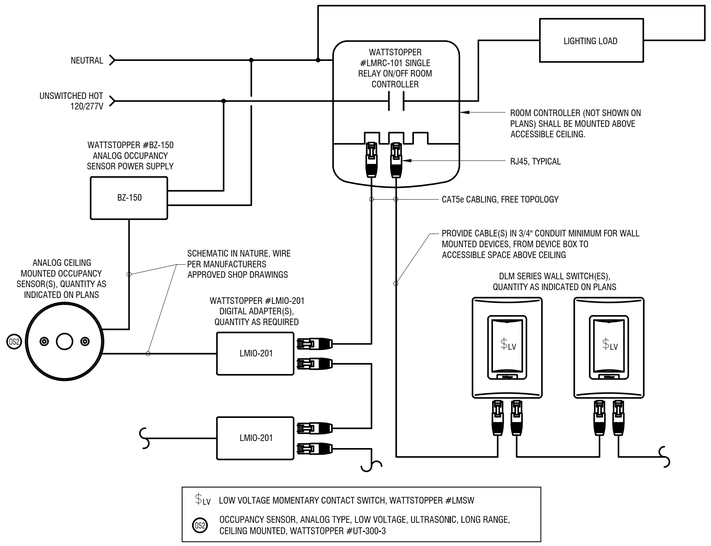
1. SYSTEM SHALL BE PROGRAMMED FOR AUTOMATIC-ON CONTROL. OCCUPANCY SENSOR SHALL TURN LIGHTING 'OFF' AFTER A TIME PERIOD OF VACANCY DETERMINED BY OWNER (UP TO A MAXIMUM OF 30 MINUTES).
2. LOW VOLTAGE SWITCH SHALL TURN LIGHTING 'ON'/'OFF' WITH A TAP OF THE SWITCH.
3. SWITCHES SHALL ALLOW MULTIPLE LOCATION FUNCTIONALITY (IE. 3-WAY, 4-WAY, OR MORE AS SHOWN).

GENERAL NOTES:

1. ALL EQUIPMENT INDICATED IS AS MANUFACTURED BY WATTSTOPPER, 'DLM' SERIES.
2. PROVIDE BACKBOX FOR ALL DEVICES
3. EQUIPMENT GROUND CONDUCTOR NOT SHOWN ON SCHEMATIC, BUT IS REQUIRED.
4. DIAGRAM IS SCHEMATIC IN NATURE, REFER TO MANUFACTURERS INSTRUCTIONS FOR SPECIFIC REQUIREMENTS
5. INSTALLATIONS SHALL COMPLY WITH REQUIREMENT SET FORTH IN IECC 2015, SECTION C405.

LIGHTING CONTROL SCHEMATIC - NON DIMMING DIGITAL OCCUPNACY SENSOR

2 / E-105 SCALE: N.T.S.



CONTROL NARRATIVE:

1. SYSTEM SHALL BE PROGRAMMED FOR AUTOMATIC-ON CONTROL. OCCUPANCY SENSOR SHALL TURN LIGHTING 'OFF' AFTER A TIME PERIOD OF VACANCY DETERMINED BY OWNER (UP TO A MAXIMUM OF 30 MINUTES).
2. LOW VOLTAGE SWITCH SHALL TURN LIGHTING 'ON'/'OFF' WITH A TAP OF THE SWITCH.
3. SWITCHES SHALL ALLOW MULTIPLE LOCATION FUNCTIONALITY (IE. 3-WAY, 4-WAY, OR MORE AS SHOWN).

GENERAL NOTES:

1. ALL EQUIPMENT INDICATED IS AS MANUFACTURED BY WATTSTOPPER, 'DLM' SERIES.
2. PROVIDE BACKBOX FOR ALL DEVICES
3. EQUIPMENT GROUND CONDUCTOR NOT SHOWN ON SCHEMATIC, BUT IS REQUIRED.
4. DIAGRAM IS SCHEMATIC IN NATURE, REFER TO MANUFACTURERS INSTRUCTIONS FOR SPECIFIC REQUIREMENTS
5. INSTALLATIONS SHALL COMPLY WITH REQUIREMENT SET FORTH IN IECC 2015, SECTION C405.

LIGHTING CONTROL SCHEMATIC - NON DIMMING ANALOG OCCUPNACY SENSOR

3 / E-105 SCALE: N.T.S.

EC SHALL PURCHASE A SINGLE WATTSTOPPER #LMCT-100 REMOTE CONTROL FOR PROGRAMMING CONTROLLERS, SENSORS AND DEVICES. DELIVER TO OWNER AFTER PROGRAMMING IS COMPLETED.

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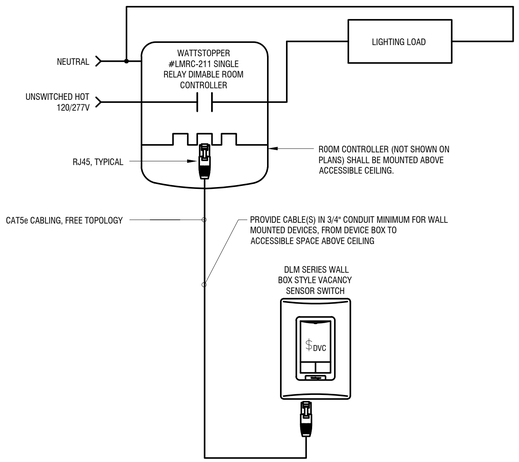


$DVC MANUAL ON, 2-BUTTON VACANCY SENSOR SWITCH, DUAL TECHNOLOGY, LOW VOLTAGE DIGITAL NETWORK TYPE, WATTSTOPPER #LMDW-102

CONTROL NARRATIVE:

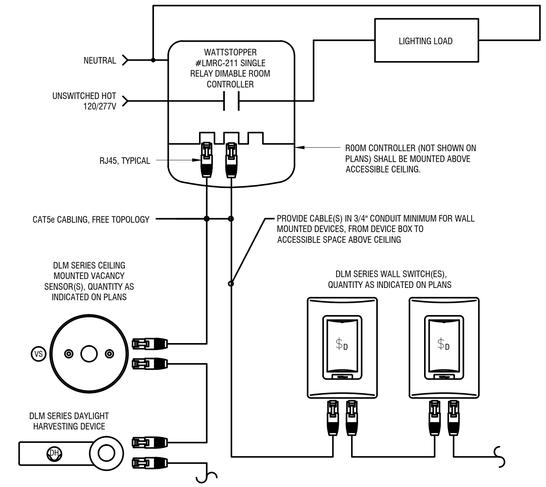
1. SYSTEM SHALL BE PROGRAMMED FOR MANUAL-ON CONTROL. VACANCY SENSOR SHALL TURN LIGHTING 'OFF' AFTER A TIME PERIOD OF VACANCY DETERMINED BY OWNER (UP TO A MAXIMUM OF 30 MINUTES).
2. LOW VOLTAGE SWITCH SHALL SHALL BE PROGRAMMED FOR DIMMING OPERATION.

GENERAL NOTES:

1. ALL EQUIPMENT INDICATED IS AS MANUFACTURED BY WATTSTOPPER, 'DLM' SERIES.
2. PROVIDE BACKBOX FOR ALL DEVICES
3. EQUIPMENT GROUND CONDUCTOR NOT SHOWN ON SCHEMATIC, BUT IS REQUIRED.
4. DIAGRAM IS SCHEMATIC IN NATURE, REFER TO MANUFACTURERS INSTRUCTIONS FOR SPECIFIC REQUIREMENTS
5. INSTALLATIONS SHALL COMPLY WITH REQUIREMENT SET FORTH IN IECC 2015, SECTION C405.

LIGHTING CONTROL SCHEMATIC - DIGITAL DIMMING WALL SWITCH VACANCY SENSOR

1 / E-106 SCALE: N.T.S.



$D DIMMING SWITCH, LOW VOLTAGE DIGITAL NETWORK TYPE, WATTSTOPPER #LMDM-101

VS VACANCY SENSOR, DIGITAL ADDRESSABLE TYPE, LOW VOLTAGE, DUAL TECHNOLOGY, WIDE VIEW, CEILING MOUNTED, WATTSTOPPER #LMDC-100

DHV DAYLIGHT HARVESTING DEVICE (DIMMING CONTROL), DIGITAL ADDRESSABLE TYPE, CEILING MOUNTED, WATTSTOPPER #LMLS-500

CONTROL NARRATIVE:

1. SYSTEM SHALL BE PROGRAMMED FOR MANUAL-ON CONTROL. VACANCY SENSOR SHALL TURN LIGHTING 'OFF' AFTER A TIME PERIOD OF VACANCY DETERMINED BY OWNER (UP TO A MAXIMUM OF 30 MINUTES).
2. LOW VOLTAGE SWITCH SHALL TURN LIGHTING 'ON'/'OFF' WITH A TAP OF THE SWITCH.
3. SWITCHES SHALL ALLOW MULTIPLE LOCATION FUNCTIONALITY (IE. 3-WAY, 4-WAY, OR MORE AS SHOWN).

GENERAL NOTES:

1. ALL EQUIPMENT INDICATED IS AS MANUFACTURED BY WATTSTOPPER, 'DLM' SERIES.
2. PROVIDE BACKBOX FOR ALL DEVICES
3. EQUIPMENT GROUND CONDUCTOR NOT SHOWN ON SCHEMATIC, BUT IS REQUIRED.
4. DIAGRAM IS SCHEMATIC IN NATURE, REFER TO MANUFACTURERS INSTRUCTIONS FOR SPECIFIC REQUIREMENTS
5. INSTALLATIONS SHALL COMPLY WITH REQUIREMENT SET FORTH IN IECC 2015, SECTION C405.

LIGHTING CONTROL SCHEMATIC - DIGITAL DIMMING WALL CEILING MOUNTED VACANCY SENSOR

2 / E-106 SCALE: N.T.S.

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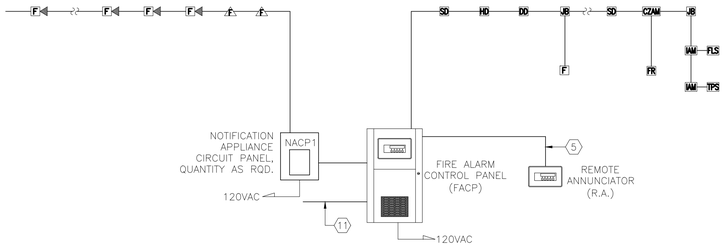
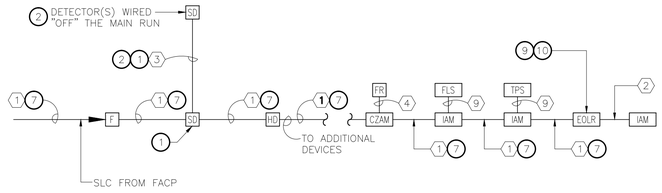


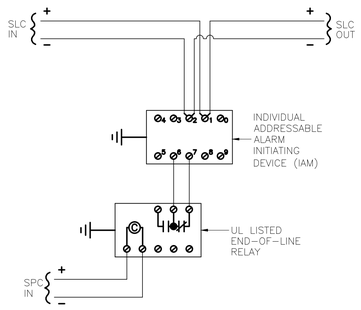
TYPICAL FIRE ALARM SYSTEM RISER DIAGRAM

1 E-108 SCALE: NONE



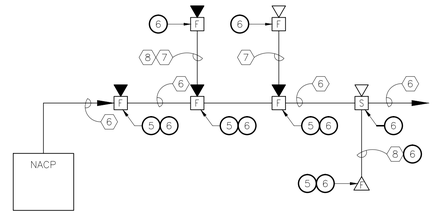
TYPICAL WIRING OF ADDRESSABLE SMOKE/ THERMAL DETECTORS & MANUAL PULL STATIONS

4 E-108 SCALE: NONE



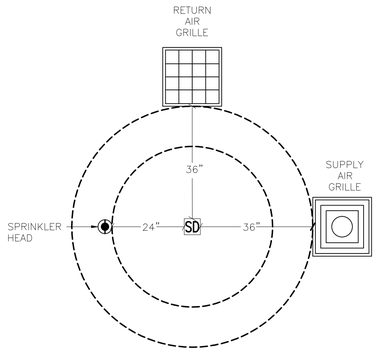
TYPICAL WIRING AT END OF 24VAC SYSTEM POWER CIRCUIT

2 E-108 SCALE: NONE



TYPICAL ALARM NOTIFICATION SPEAKER/STROBE APPLIANCE WIRING

5 E-108 SCALE: NONE



SMOKE DETECTOR MINIMUM INSTALLATION CLEARANCES

3 E-108 SCALE: NONE

DRAWING NOTES: (#)

1 "T" TAPPING OF EITHER THE SIGNALING LINE CIRCUIT CABLE, OR THE SYSTEM POWER CIRCUIT, IS NOT PERMITTED.

2 THE NUMBER OF ALARM INITIATING DEVICES BRANCHED "OFF" THE MAIN SIGNALING LINE CIRCUIT (SLC) & SYSTEM POWER CIRCUIT (SPC) SHALL BE LIMITED TO THREE.

IF THREE OR LESS ALARM INITIATING DEVICES ARE BRANCHED "OFF" THE MAIN CIRCUIT RUN, ONLY THE SIGNALING LINE CIRCUIT IS REQUIRED. IT SHALL BE WIRED THRU THE DEVICES, IN A DOUBLED-BACK RETURN LOOP FASHION.

IF MORE THAN THREE ALARM INITIATING DEVICES ARE BRANCHED "OFF" THE MAIN CIRCUIT RUN, EXTEND BOTH THE SIGNALING LINE CIRCUIT, AND THE SYSTEM POWER CIRCUIT TO THE ADDITIONAL DEVICES IN A DOUBLED-BACK, RETURN LOOP FASHION.

3 NOT USED

4 NOT USED.

5 STROBE LIGHTS SHALL BE CIRCUITED TO SEPARATE NOTIFICATION APPLIANCE CIRCUIT(S), TO ALLOW STROBES TO REMAIN FLASHING, UPON SILENCING OF THE AUDIBLE ALARM NOTIFICATION APPLIANCES.

6 "T" TAPPING OF THE AUDIBLE OR VISUAL ALARM NOTIFICATION CIRCUIT WIRING, IS NOT PERMITTED.

7 A SYSTEM POWER 24VDC SUPERVISED CIRCUIT SHALL BE INSTALLED ALONG WITH THE ENTIRE SLC PATH, FROM THE FIRST ALARM INITIATING DEVICE IN THE CIRCUIT, TO THE LAST ALARM INITIATING DEVICE IN THE CIRCUIT. SINGLE DEVICE TAKE-OFFS FROM THE MAIN PATH SHALL NOT BE REQUIRED TO CARRY THE SYSTEM POWER CIRCUIT. REFER TO NOTE #2 ABOVE.

8 NOT USED

9 PROVIDE, AT THE END OF ALL SYSTEM POWER CIRCUITS, AN END-OF-LINE RELAY, & AN INDIVIDUAL ADDRESSABLE POINT MODULE (IAM), CONNECTED TO SUPERVISE & MONITOR LOSS OF SYSTEM POWER.

10 INSTALL AFTER LAST ALARM INITIATING DEVICE IN THE CIRCUIT.

FIRE ALARM SYSTEM WIRING NOTES: (#)

1 (1) SIGNALING LINE CIRCUIT CABLE + (1) SYSTEM POWER CABLE

2 (1) SIGNALING LINE CIRCUIT CABLE

3 (2) SIGNALING LINE CIRCUIT CABLES REFER TO DRAWING NOTE #2 ABOVE.

4 (1) SYSTEM POWER CIRCUIT CABLE

5 (2) SIGNALING LINE CIRCUIT CABLES + (1) SYSTEM POWER CIRCUIT CABLE

6 (1) NOTIFICATION APPLIANCE CIRCUIT CABLE (STROBES)+ (1) AUDIBLE NOTIFICATION APPLIANCE CIRCUIT CABLE (HORNS)

7 (2) AUDIBLE NOTIFICATION APPLIANCE CIRCUIT CABLE PAIRS (HORNS) (1 IN/1 OUT)

8 (2) VISUAL NOTIFICATION APPLIANCE CIRCUIT CABLE PAIRS (1 IN/1 OUT)

9 (2) #14 IN 1/2" RACEWAY.

10 (2) #18 TSP

11 PROVIDE (2)-4 PAIR CAT5E CABLES IN 3/4"R. TO TELEPHONE PUNCH-DOWN BLOCKS FOR DACT CONNECTION.

12 PROVIDE WIRING TO CZAM. CZAM SHALL BE USED FOR ALARMING BUILDING AUTOMATION SYSTEM. VERIFY FINAL LOCATION OF BUILDING AUTOMATION SYSTEM BEFORE INSTALLATION.

FIRE ALARM SYSTEM GENERAL NOTES:

A DEVICES INDICATED ARE SHOWN FOR CIRCUITING INTENT ONLY, & SHALL NOT BE CONSIDERED AS ABSOLUTE QUANTITIES, TYPES, LOCATIONS ETC. REFER TO DRAWINGS FOR TYPES, LOCATIONS AND QUANTITIES.

B PROVIDE, AT THE END OF ALL 24VDC SYSTEM POWER CIRCUIT(S), AN END-OF-LINE RELAY, CONNECTED TO AN IAM, SUPERVISE & MONITOR LOSS OF SYSTEM POWER.

C FIRE ALARM SYSTEM INTERFACE WIRING TO THE ELEVATOR CONTROLLERS SHALL BE THROUGH NORMALLY CLOSED DRY CONTACT CLOSURES IN THE CZAM MODULES PROVIDED BY THE FIRE ALARM SYSTEM. FINAL WIRING CONNECTION(S) TO THE ELEVATOR CONTROLLERS SHALL BE PROVIDED BY THE INSTALLING ELEVATOR CONTRACTOR.

D HEAT DETECTORS INDICATED IN SPRINKLERED ELEVATOR MACHINE ROOMS, & AT THE TOP OF SPRINKLERED ELEVATOR SHAFT, SHALL BE INSTALLED WITHIN 24" OF EACH SPRINKLER. COORDINATE EXACT LOCATION(S) OF HEAT DETECTORS WITH SPRINKLER CONTRACTOR PRIOR TO INSTALLATION.

E SPRINKLER HEAD(S) INSTALLED IN ELEVATOR MACHINE ROOMS & AT THE TOP OF ELEVATOR SHAFTS, ARE RATED FOR ACTIVATION AT 165°F. HEAT DETECTORS PROVIDED FOR INSTALLATION IN ELEVATOR MACHINE ROOM(S) & AT THE TOPS OF ELEVATOR SHAFT(S) SHALL BE RATED FOR ACTIVATION AT NOT GREATER THAN 160° F.

F INSTALL SMOKE DETECTOR(S) A MINIMUM OF 3'-0" AWAY FROM AIR SUPPLY OR RETURN REGISTERS & DIFFUSERS.

G DEVICE TERMINAL NUMBERS & CONFIGURATION DIFFER FROM MFGR. TO MFGR. TERMINAL DEVICE NUMBERS & DEVICE CONFIGURATIONS INDICATED ARE FOR GENERAL CONCEPT ONLY, & SHALL BE VERIFIED WITH THE ACTUAL MFGR. SELECTED FOR THE PROJECT.

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SA JOB #: 17033.02
DATE: 10-18-2017

DRAWING #: E-107

BASIC ELECTRICAL REQUIREMENTS

A. THE INSTRUCTIONS TO BIDDERS, FORM OF BID, FORM OF CONTRACT, GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS AND THE CONTRACT DRAWINGS ARE A PART OF THE SPECIFICATIONS FOR THIS DIVISION OF WORK AND THIS CONTRACTOR SHALL REFER TO THEM FOR INSTRUCTIONS PERTAINING TO HIS WORK.

B. "THE CONTRACTOR", "THIS CONTRACTOR", "EC", AND "DIVISION 16", AS USED IN THESE DRAWINGS AND SPECIFICATIONS, MEANS THE ELECTRICAL CONTRACTOR. "FURNISH AND INSTALL", "SUPPLY", AND "INSTALL", AS USED IN THESE SPECIFICATIONS, MEANS A COMPLETE AND WORKABLE INSTALLATION BY THE E.C.

C. WHERE SPECIFICATIONS AND/OR DRAWINGS CONFLICT WITH ANY CODE REQUIREMENT, CODE REQUIREMENTS SHALL BE FOLLOWED.

D. CODES AND STANDARDS:

1. NYS UNIFORM FIRE PREVENTION AND BUILDING CODE
2. NFPA STANDARDS
3. ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES
4. NYS ENERGY CONSERVATION CONSTRUCTION CODE
5. NATIONAL ELECTRICAL CODE

E. THE ELECTRICAL SYSTEMS COVERED BY THIS CONTRACT INCLUDE, BUT ARE NOT LIMITED TO:

1. BRANCH CIRCUIT WIRING AND RACEWAYS
2. WIRING DEVICES
3. DISCONNECTS
4. MOTOR STARTERS AND MOTOR STARTING EQUIPMENT
5. GROUNDING AND BONDING
6. LIGHTING CONTROLS
7. LIGHTING FIXTURES AND LAMPS
8. ELECTRICAL SERVICE
9. ELECTRICAL DISTRIBUTION SYSTEM, INCLUDING PANELBOARDS, OVERCURRENT DEVICES, INSTRUMENTS, METERING, AND FEEDERS
10. TELEPHONE RACEWAY SYSTEM, INCLUDING OUTLET BOXES AND COVERS, RACEWAYS, FISHWIRES, CABINETS, BACKBOARDS, AND RELATED EQUIPMENT
11. COMPUTER RACEWAY SYSTEM, INCLUDING OUTLET BOXES AND COVERS, RACEWAYS, FISHWIRES, CABINETS, BACKBOARD, AND RELATED EQUIPMENT
12. TELEPHONE SERVICE
13. CABLE TV SERVICE
14. FIRE ALARM AND DETECTION SYSTEM
15. EXISTING CONSTRUCTION AND COORDINATION OF DEMOLITION WORK
16. CONNECTIONS TO HVAC, PLUMBING, FIRE PROTECTION, AND ALL OTHER ELECTRICALLY SUPPLIED EQUIPMENT, CONTROLS, CONTROL PANELS, MOTOR STARTERS, MOTOR STARTING EQUIPMENT AND DISCONNECTS NOT FURNISHED UNDER HVAC, PLUMBING, FIRE PROTECTION, OR OTHER CONTRACTS

F. PAY FOR ALL PERMITS, INSPECTION FEES, LICENSES AND FOR TESTS WHICH MAY BE REQUIRED IN DETERMINING THE COMPLETENESS OF THE ELECTRICAL WORK.

G. ALL ELECTRICAL PRODUCTS USED ON THIS PROJECT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL).

H. ALL ELECTRICAL PRODUCTS USED ON THIS PROJECT SHALL CONFORM TO APPLICABLE STANDARD OF THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).

I. ALL ELECTRICAL INSTALLATION AND PRODUCTS USED ON THIS PROJECT SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC).

J. THE PLANS SHOW THE APPROXIMATE LOCATION OF ALL PARTS OF THE WORK. THE ARCHITECT WILL GIVE EXACT LOCATIONS. WHERE STRUCTURAL CONDITIONS ENCOUNTERED NECESSITATE MINOR CHANGES, THESE SHALL BE MADE WITHOUT CHARGE, BUT MUST MEET WITH THE APPROVAL OF THE ARCHITECT. WHERE MAJOR CHANGES ARE REQUIRED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR DECISION BEFORE PROCEEDING WITH THE WORK.

K. NOTIFY THE ARCHITECT, AND OBTAIN APPROVAL, BEFORE ANY COMPONENTS OF THE ELECTRICAL SYSTEM ARE CONCEALED BY CLOSING OFF AREAS, POURING CONCRETE, ETC.

L. DETERMINE AND BE RESPONSIBLE FOR PROPER SIZE AND LOCATION OF OPENINGS AND CHASES, AND GIVE GENERAL CONTRACTOR NOTICE OF REQUIREMENTS. INSTALL ALL SLEEVES NECESSARY FOR THE WORK. WHEREVER ANY RACEWAY PASSES THROUGH A WALL, THE OPENING SHALL BE SEALED TIGHT AGAINST THE RACEWAY BY THIS CONTRACTOR. RACEWAYS THROUGH FOUNDATION WALLS AND ROOFS SHALL BE SEALED WATERTIGHT BY THIS CONTRACTOR.

M. THIS CONTRACTOR SHALL DO ALL NECESSARY CUTTING AND PATCHING WHICH IS NOT CALLED TO BE DONE UNDER ANOTHER DIVISION. ALL CUTTING AND REPAIRING SHALL BE PERFORMED BY SKILLED WORKERS.

N. PAINT ALL EXPOSED RACEWAYS IN FINISHED ROOMS WITH TWO COATS OF PAINT TO MATCH SURROUNDINGS. INSTALL PANELBOARD TRIMS, CABINETS, ENCLOSURES, ETC., IN SUFFICIENT TIME SO THAT THE PAINTING CONTRACTOR MAY PAINT THESE SURFACES WITH THE WALLS. THIS CONTRACTOR SHALL PAY FOR ALL NECESSARY PAINTING IF THE ABOVE PROCEDURE IS NOT FOLLOWED.

O. THE CONTRACTOR SHALL FURNISH AND INSTALL THE POWER AND LIGHTING REQUIRED FOR THE CONSTRUCTION THE SCOPE SHALL INCLUDE, BUT NOT LIMITED TO:

1. TEMPORARY POWER DISTRIBUTION
2. LAMP SOCKETS AND LAMPS
3. OUTLETS AND CONSTRUCTION EQUIPMENT CONNECTION INCLUDING WELDERS
4. REMOVAL OF TEMPORARY DISTRIBUTION AFTER COMPLETION OF CONSTRUCTION

P. THE ELECTRICAL CONTRACTOR SHALL INSTALL RACEWAYS IN SUCH A MANNER THAT THE EXPANSION JOINTS OF THE BUILDING WILL FUNCTION PROPERLY AND NOT STRESS ANY ELECTRICAL RACEWAYS. EXPANSION JOINTS SHALL BE INSTALLED IN ALL RACEWAYS AT THE EXPANSION JOINTS OF THE BUILDING.

Q. BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE BUILDING AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THE MEASUREMENTS INDICATED ON THE DRAWINGS; ANY DIFFERENCE WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR CONSIDERATION BEFORE PROCEEDING WITH THE WORK.

R. PROVIDE PRODUCT DATA, CATALOG CUT SHEETS WITH MFG. SPECIFICATIONS FOR REVIEW BY ARCH./ENGR. FOR THE FOLLOWING ITEMS:

1. PANELBOARDS
2. SAFETY DISCONNECT SWITCHES
3. OUTLET BOXES
4. FITTINGS
5. LIGHTING FIXTURES
6. LAMPS
7. CONDUCTORS
8. DEVICES
9. TIME SWITCHES
10. PHOTOELECTRIC CONTROLS
11. FIRE ALARM SYSTEM

S. PROVIDE A MINIMUM OF SEVEN (7) SUBMITTAL COPIES FOR EACH ITEM LISTED ABOVE.

T. MAINTAIN THROUGHOUT PROJECT A SET OF PLANS WHICH ACCURATELY PORTRAY THE ACTUAL INSTALLATION, INCLUDING LOCATION OF ALL WIRING, EQUIPMENT, CIRCUIT NUMBERS, ETC. TURN OVER TO OWNER AT COMPLETION OF JOB.

RACEWAYS AND FITTINGS

A. WHERE CALLED FOR ON THE DRAWINGS, FLOOR OUTLET BOXES AND POKE-THROUGH DEVICE SHALL BE AS MANUFACTURED BY HUBBELL, WALKER, OR LEW.

B. WIRING AND RACEWAYS SHALL BE CONCEALED IN ALL ROOMS AND SPACES UNLESS OTHERWISE NOTED.

C. FOR INDOOR USE IN FINISHED ROOMS INSIDE HOLLOW WALL OR CEILING CAVITIES: WIRE IN ELECTRICAL METALLIC TUBING (EMT), COMPRESSION TYPE FITTINGS.

D. FOR USE IN UNFINISHED AREAS: WIRE IN SURFACE MOUNTED RGS CONDUIT.

E. FOR OUTDOOR USE: WIRE IN THREADED, RIGID STEEL CONDUIT.

F. FOR UNDERGROUND USE: WIRE IN SCHEDULE 80 RIGID PVC NONMETALLIC CONDUIT.

G. FOR FINAL CONNECTION IN DAMP OR WET LOCATIONS: LIQUID TIGHT FLEXIBLE METAL CONDUIT, WITH LISTED FITTINGS.

H. IN ALL INSTANCES, INCLUDE A SEPARATE GROUNDING CONDUCTOR IN EACH RACEWAY, SIZE PER NEC.

I. FURNISH ALL FITTINGS REQUIRED, BUT NOT LIMITED TO: BUSHINGS TO PREVENT WIRE ABRASION; SINGLE- AND MULTIPLE-GANG BOXES TO ACCOMMODATE DEVICE INSTALLATION; ADAPTERS FROM CONDUIT TO RACEWAY; TRANSITIONS TO BOTH LARGER AND SMALLER SURFACE METAL RACEWAYS; 90 DEGREE ELBOWS, TEES, FIXTURE BOXES, AND FLEXIBLE SECTIONS.

J. SURFACE METAL RACEWAY AND FITTINGS SHALL MEET ALL REQUIREMENTS OF NEC ARTICLE 352A AND SHALL BE UL LISTED.

K. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION, INSTALLATION, AND LOCATION OF ALL NECESSARY AND REQUIRED INSERTS, SUPPORTS, AND ANCHOR BOLTS, AND FOR A SATISFACTORY RACEWAY SYSTEM UPON COMPLETION OF THE PROJECT.

L. WHERE ANY COMPONENT OF THE RACEWAY SYSTEM IS DAMAGED PRIOR TO FINAL ACCEPTANCE BY THE OWNER, THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE SAME OR PROVIDE A NEW RACEWAY SYSTEM, AT THE EXPENSE OF THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.

M. CONDUITS SHALL BE RUN TO AVOID ADVERSE CONDITIONS SUCH AS HEAT AND MOISTURE AND TO AVOID ALL MATERIALS AND EQUIPMENT OF OTHER TRADES. CONDUITS SHALL MAINTAIN A MINIMUM CLEARANCE OF SIX INCHES FROM ALL HOT WATER PIPES, FLUES, OR AND HIGH TEMPERATURE PIPING OR DUCTWORK. SHOULD IT BE FOUND NECESSARY TO INSTALL CONDUIT CLOSER THAN THIS TO HOT WATER PIPES AN INSULATING COVERING SHALL BE USED TO PROTECT THE CONDUIT FROM HIGH TEMPERATURE.

N. RACEWAYS SHALL NOT BE SMALLER THAN THE SIZE REQUIRED BY THE NATIONAL ELECTRICAL CODE FOR THE CONDUCTORS ENCLOSED AND SHALL BE LARGER WHERE SO SPECIFIED OR INDICATED ON THE PLANS.

O. ALL EXPOSED RUNS OF CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR CEILINGS. SUPPORTS SHALL BE FROM THE MASONRY OR STEEL STRUCTURE RATHER THAN FROM OTHER MECHANICAL WORK SUCH AS DUCTS, PIPING, ETC., IN ACCORDANCE WITH GOOD INDUSTRY PRACTICE IN A MANNER ACCEPTABLE TO THE ARCHITECT.

P. SUPPORTS AND ATTACHMENTS PROVIDED SHALL BE SPECIFICALLY DESIGNED FOR THE APPLICATIONS. PERFORATED HANGERS OR WIRE TIE SUPPORTS ARE NOT ACCEPTABLE. ALL HANGERS AND SUPPORTS SHALL HAVE CORROSION RESISTANT FINISH.

Q. ALL CONDUITS PASSING THROUGH WALLS, FLOORS, AND CEILINGS SHALL BE SLEEVED WITH A PIECE OF SCHEDULE 40 GALVANIZED STEEL PIPE WITH PLAIN ENDS. ALL SLEEVES SHALL BE SEALED WATERTIGHT USING A MATERIAL SIMILAR IN APPEARANCE TO THE SURROUNDING AREA OR APPROVED MATERIAL.

R. CONDUITS EXTENDING THROUGH ROOFS SHALL BE EQUIPPED WITH PITCH POCKETS.

S. ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH A NYLON PULLWIRE.

T. ALL CONDUIT PASSING THROUGH A FIRE ZONE SHALL HAVE A FIRE RATED INSTALLATION.

U. CONDUIT SHALL BE INSTALLED SO THAT A CONTINUOUS GROUNDING SYSTEM WILL BE MAINTAINED FROM THE FURTHERMOST OUTLET TO THE ESTABLISHED WATER PIPE GROUND.

V. CONDULETS, UNILETS, OR SIMILAR APPROVED TYPE FITTINGS SHALL BE USED ON EXPOSED WORK WHERE CONDUIT CHANGES DIRECTION AND WHERE BENDS WILL NOT MAKE A NEAT JOB.

W. EXPOSED CONDUIT SHALL BE SECURELY FASTENED TO THE BUILDING AT EIGHT-FOOT MINIMUM INTERVALS, USING APPROVED HANGERS, STRAPS, CLAMPS, OR SCREWS. WOOD PLUGS SHALL NOT BE USED FOR FASTENING PURPOSES. CONDUIT RUN ABOVE HUNG CEILING OR IN CRAWL SPACES SHALL BE SUPPORTED IN THE SAME MANNER AS FOR EXPOSED RUNS. WIRE TIES ARE NOT ACCEPTABLE SUPPORTS.

X. CARE SHALL BE EXERCISED TO MAKE CERTAIN THAT THE CONDUIT SYSTEM NOW PLANNED WILL PERMIT REMOVAL OF CONDUCTORS FOR FUTURE CHANGES AS MAY BE REQUIRED. ALTHOUGH UP TO FOUR 90 DEGREE BENDS ARE PERMITTED BY THE NATIONAL ELECTRICAL CODE, THE PRACTICE OF USING MORE THAN THREE 90 DEGREE BENDS PER RUN SHALL BE AVOIDED. PULL BOXES SHALL BE USED IF AT ALL FEASIBLE.

Y. PULLBOXES SHALL BE INSTALLED AT 100 FOOT INTERVALS IN LONG STRAIGHT RUNS. CLOSE NIPPLES WILL NOT BE PERMITTED.

Z. CONDUIT SMALLER THAN 1/2" SHALL NOT BE USED.

THE REQUIRED STRENGTH OF THE SUPPORTING EQUIPMENT AND THE SIZE AND TYPE OF ANCHORS SHALL BE BASED ON THE COMBINED WEIGHT OF CONDUIT, HANGERS, AND CONDUCTORS. THE USE OF PERFORATED IRON STRAPS FOR SUPPORTING CONDUITS WILL NOT BE PERMITTED.

AA. SINGLE RUNS:

1. WHERE CONDUITS ARE RUN INDIVIDUALLY, THEY SHALL BE SUPPORTED BY APPROVED PIPE STRAPS, SECURED BY MEANS OF TOGGLE BOLTS
2. IN HOLLOW MASONRY; EXPANSION SHIELDS AND MACHINE SCREWS OR STANDARD PRESET INSERTS IN CONCRETE OR SOLID MASONRY; MACHINE SCREWS OR BOLTS IN METAL SURFACES; AND WOOD SCREWS IN WOOD CONSTRUCTION. THE USE OF PERFORATED IRON STRAPS WILL NOT BE PERMITTED.
3. CONDUITS INSTALLED EXPOSED ON THE SURFACE IN DAMP LOCATIONS OR IN REFRIGERATED AREAS SHALL BE PROVIDED WITH CLAMP BACKS UNDER EACH CONDUIT CLAMP TO PREVENT ACCUMULATION OF MOISTURE AROUND THE CONDUITS.

WHERE INDIVIDUAL CONDUITS ARE SUSPENDED FROM THE CEILING THEY SHALL BE SUPPORTED BY HANGERS EQUIVALENT TO STEEL CITY NO. C-149.

BB. MULTIPLE RUNS:

1. WHERE A NUMBER OF CONDUITS ARE TO BE RUN EXPOSED AND PARALLEL, ONE WITH ANOTHER, THEY SHALL BE GROUPED AND SUPPORTED BY TRAPEZE HANGERS.
2. HANGER RODS SHALL BE FASTENED TO STRUCTURAL STEEL MEMBERS WITH SUITABLE BEAM CLAMPS, OR TO CONCRETE INSERTS SET FLUSH WITH SURFACE.

CC. THE CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOXES, PULLBOXES, AND CABLE SUPPORT BOXES AS SHOWN ON THE DRAWINGS, SPECIFIED HEREIN, OR AS OTHERWISE REQUIRED. BOXES SHALL BE SECURED IN POSITION INDEPENDENTLY OF CONDUITS ENTERING THEM BY MEANS OF BOLTS, ROD HANGERS, BRACKETS, OR OTHER APPROVED METHODS. OUTLET BOXES SHALL BE SECURELY FASTENED TO CEILINGS, WALLS OR COLUMNS.

WIRE AND CABLE

A. ACCEPTABLE MANUFACTURERS SHALL BE ANACONDA, GENERAL ELECTRIC, CERRO, OR BRAND REX.

B. ALL CONDUCTORS SHALL BY COPPER, WITH 600 VOLT INSULATION, UNLESS OTHERWISE NOTED; STRANDING AND INSULATION TYPES AS FOLLOWS:

C. BRANCH CIRCUIT FEEDERS

1. #10 AWG AND SMALLER (SOLID OR STRANDED) – TYPE THHN/THWN INSULATION.
2. #8 AWG AND LARGER (STRANDED) – TYPE THHN/THWN INSULATION.

D. ALL WIRE AND CABLE SHALL BE NEW, WITHIN ONE YEAR OF MANUFACTURE WHEN DELIVERED TO THE SITE AND BEAR THE UL LABEL, INSULATION TYPE, VOLTAGE, AND MANUFACTURER'S NAME AT REGULAR INTERVALS ON THE INSULATION.

E. ALL WIRING SHALL BE DONE SO THAT THE SYSTEM WILL BE CONTINUOUSLY POLARIZED THROUGHOUT, FOLLOWING THE COLOR CODING INDICATED IN THE NEC.

F. ALL CONNECTIONS USING COPPER SHALL BE MADE WITH CONNECTORS THAT ARE DESIGNED AND APPROVED FOR COPPER.

G. JOINTS, TAPS AND SPLICES OF WIRES OF SIZES #10 AWG AND SMALLER SHALL BE MADE BY MEANS OF "SCOTCHLOK" SPRING CONNECTORS.

H. JOINTS, TAPS AND SPICES OF WIRES OF SIZE #8 AWG AND LARGER SHALL BE MADE WITH THOMAS AND BETTS ALUMINUM/COPPER COLOR -KEYED COMPRESSION CONNECTORS, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

I. WIRE SIZES SHALL BE AS SHOWN ON THE DRAWINGS OR SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

J. ALL FEEDER CABLES SHALL BE CONTINUOUS FROM ORIGIN TO EQUIPMENT TERMINATION WITHOUT RUNNING SPLICES IN INTERMEDIATE PULL OR SPLICE BOXES AS FAR AS PRACTICABLE. NO SPLICES ARE ALLOWED IN "C" CONDULETS.

K. CONDUCTORS SHALL NOT BE SMALLER THAN CODE SIZE FOR THE LOADS BEING HANDLED AND SHALL BE LARGER IF SO INDICATED IN THE PLANS OR SPECIFICATIONS. NO CONDUCTOR SHALL BE LESS THAN #12 AWG EXCEPT FOR CONTROL CIRCUITS, WHICH MAY BE #14 WIRE WHEN INDICATED.

L. PROVIDE SEPARATE GREEN GROUND (EQUIPMENT GROUND) CONDUCTOR IN ALL FEEDERS AND BRANCH CIRCUITS.

CABINETS, BOXES, AND FITTINGS

A. USE SHEET STEEL JUNCTION, OUTLET AND PULL BOXES SIZED PER NEC IN ALL DRY LOCATIONS.

B. USE CAST BOXES FOR EXTERIOR USE, WHERE IN CONCRETE FLOORS, AND IN ALL DAMP OR WET LOCATIONS.

C. USE STEEL OR MALLEABLE IRON FITTINGS SPECIFICALLY DESIGNED FOR EACH RACEWAY TYPE, AS DICTATED BY GOOD PRACTICE.

D. IN ALL CASES, ALL CABINETS, JUNCTION AND OUTLET BOXES SHALL BE ACCESSIBLE.

ELECTRICAL CONNECTIONS FOR EQUIPMENT

A. FIXED EQUIPMENT REQUIRING ATTACHMENT PLUGS SHALL BE PROVIDED WITH APPROPRIATE RECEPTACLE TO MATCH PLUG.

B. FIXED EQUIPMENT REQUIRING DIRECT WIRED CONNECTIONS SHALL BE PROVIDED WITH LOCAL JUNCTION BOX, AND FLEXIBLE NONMETALLIC CONDUIT, OR LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT CONNECTIONS TO EQUIPMENT.

C. PROVIDE SEPARATE FUSIBLE DISCONNECT FOR EQUIPMENT NOT FURNISHED WITH INTEGRAL OR FACTORY FURNISHED DISCONNECTING MEANS.

D. PROVIDE MOTOR STARTER FOR EQUIPMENT NOT FURNISHED WITH FACTORY STARTER.

WIRING DEVICES

A. FOR FINISHED AREAS, USE SPECIFICATION GRADE DEVICES, COLOR AS SELECTED BY ARCHITECT, WITH SMOOTH THERMOPLASTIC WALL PLATE, COLOR TO MATCH DEVICE.

B. FOR UNFINISHED DRY INTERIOR SPACES, USE SPECIFICATION GRADE DEVICE IN STEEL UTILITY BOXES WITH MATCHING STEEL DEVICE COVERS.

C. FOR INTERIOR AND EXTERIOR WET LOCATIONS, USE SPECIFICATION GRADE DEVICES INSTALLED WITH AN OUTLET ENCLOSURE CLEARLY MARKED "SUITABLE FOR WET LOCATIONS WHILE IN USE", AS MANUFACTURED BY TAYMAC CORP., WITH PUSH-BUTTON RELEASE.

D. RECEPTACLES:

20A, 125V DUPLEX RECEPTACLE: HUBBELL #CR5362
20A, 125V DUPLEX GFI RECEPTACLE: HUBBELL #GF5362
20A, 125V DUPLEX ISOLATED GROUND RECEPTACLE: HUBBELL #CR5352IG
20A, 125V DUPLEX TVSS RECEPTACLE: HUBBELL #HBL5362S

E. SWITCHES:

20A, 120/277V A.C. TOGGLE SWITCH: HUBBELL #CS1221
20A, 120/277V A.C. THREE-WAY SWITCH: HUBBELL #CS1223
20A, 120/277V A.C. FOUR-WAY SWITCH: HUBBELL #CS1224
20A, 120/277V A.C. KEY (LOCK) SWITCH: HUBBELL #1221L
20A, 120/277V A.C. RED PILOT HANDLE: HUBBELL #1221PL

F. OCCUPANCY SENSORS:

WALL CONTROL – 1500W FLUORESCENT, 120VAC

SHALL BE COMPATIBLE WITH ELECTRONIC BALLASTS; 90°FIELD OF VISION.

HUBBELL AT120, COLOR AS SELECTED BY ARCHITECT.

SAFETY DISCONNECT DEVICES

A. DISCONNECTION DEVICES RATING SHALL BE AS SHOWN ON THE DRAWINGS, HEAVY-DUTY, "QUICK-MAKE, QUICK-BREAK", SAFETY SWITCHES WITH INTERLOCKING COVER, CONSTRUCTED OF CODE GAGE STEEL (UL 98). ENCLOSURES SHALL BE TREATED WITH RUST INHIBITING PHOSPHATE AND FINISHED IN GRAY BAKED ENAMEL.

B. DISCONNECTS SHALL BE FUSED OR NON-FUSED AS INDICATED ON THE DRAWINGS, OR AS REQUIRED BY NEC. NUMBER OF POLES, WITH OR WITHOUT SOLID NEUTRAL, SHALL BE AS INDICATED ON THE DRAWINGS, OR AS REQUIRED.

C. ENCLOSURES FOR INDOOR USE SHALL BE NEMA 1; ENCLOSURES FOR EXTERIOR USE SHALL BE NEMA 3R, ENCLOSURES FOR HOSE DOWN/DUST TIGHT LOCATIONS SHALL BE NEMA 4X.

D. DISCONNECTS SHALL REQUIRE THE USE OF A SCREWDRIVER FOR ACCESS TO INTERIOR WITHOUT OPENING CONTACTS.

E. DISCONNECTS SHALL HAVE PROVISIONS FOR PADLOCKING THE SWITCH IN THE "OFF", OR "OPEN" POSITION.

F. ACCEPTABLE MANUFACTURERS ARE SQUARE D, ITE, WESTINGHOUSE, OR GENERAL ELECTRIC.

G. FURNISH A SAFETY DISCONNECT DEVICE ON ALL EQUIPMENT CONNECTIONS WHERE INDICATED ON THE DRAWINGS, OR AS REQUIRED BY CODE.

H. DISCONNECTS SHALL BE MOUNTED TO PERMANENT STRUCTURAL ELEMENTS WITH APPROVED FASTENING MEANS. DISCONNECTS SHALL NOT BE FASTENED BY WELDING THE ENCLOSURE TO ITS DESIGNATED STRUCTURAL SUPPORT. BEAM CLAMPS, UNISTRUT AND BOLTED WASHERS COMPRISE ACCEPTABLE FASTENING MEANS.

I. NAMEPLATES SHALL BE PLASTIC LAMINATE WITH WHITE BACKGROUND AND 1/4" BLACK ENGRAVED LETTERS WITH THE TITLE OF THE EQUIPMENT THAT IS FED. NAMEPLATES SHALL BE ATTACHED USING RIVETS OR NUTS, WASHERS, AND BOLTS.

GROUNDING

A. GROUND SERVICE, EQUIPMENT, CIRCUITS PER NEC. USE COPPER CONDUCTORS.

B. REFER TO DRAWINGS FOR TYPICAL GROUNDING ELECTRODE DETAIL.

PANELBOARDS

A. SHALL BE UL LISTED AS "SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT", WHERE APPLICABLE.

B. PHASE, NEUTRAL AND GROUND BUSSES SHALL BE COPPER, AND PHASE BUSSES SHALL EXTEND THE ENTIRE HEIGHT OF PANELBOARD, FOR FUTURE INSTALLATION OF ADDITIONAL CIRCUIT BREAKERS, WITHOUT THE NEED FOR CONNECTORS, BUT CIRCUIT BREAKERS CONNECTIONS TO THE BUS SHALL BE: BOLT-ON, DOUBLE ROW ARRANGEMENT, DISTRIBUTED PHASE BUS TYPE.

C. CIRCUIT BREAKERS SHALL BE MOLDED CASE, THERMAL MAGNETIC, BOLT-ON TYPE, DEAD FRONT DESIGN, WITH QUICK-MAKE, QUICK-BREAK, COMMON TRIP TYPE SINGLE TOGGLE OPERATING MECHANISMS, 1, 2, OR 3 POLE, AND HACR LISTED WHEN USED FOR HVAC EQUIPMENT, SIZED PER PANELBOARD SCHEDULE.

D. BACKBOXES SHALL BE FABRICATED FROM GALVANIZED, CODE GAUGE, SHEET STEEL, MEETING OR EXCEEDING NECESSARY REQUIREMENT FOR WIRE BENDING SPACE, WITHOUT KNOCKOUTS.

E. COVERS SHALL BE DEAD FRONT DESIGN, WITH HINGED DOOR, CONCEALED FASTENERS, FABRICATED FROM CODE GAGE STEEL WITH POINTED ENAMEL FINISH, FLUSH LOCK AND CATCH.

F. PANELBOARD DIRECTORY CARD, WITH CLEAR PLASTIC COVER, SHALL BE PROVIDED ON BACK OR DOOR. CONTRACTOR SHALL COMPLETE DIRECTORY CARD, WITH CIRCUIT BREAKER NUMBERS CROSS REFERENCED TO THEIR RESPECTIVE LOAD(S), BY LOAD TYPE AND ROOM OR SPACE NAME AND NUMBER.

G. PROVIDE PERMANENT LAMACOID OR EQUAL TYPE LABEL INSIDE PANELBOARD DOOR, IDENTIFYING PANELBOARD NAME.

H. DESIGN EQUIPMENT SHALL BE SQUARE D CO. – TYPE NQOD FOR 208Y/120V PANELBOARDS; TYPE NF FOR 480Y/277V PANELBOARDS; TYPE I-LINE FOR DISTRIBUTION PANELBOARDS. ALTERNATE MANUFACTURERS ARE: CUTTLER-HAMMER/WESTINGHOUSE, OR SIEMENS/ITE.

FUSES

A. PROVIDE INSTANTANEOUS OR TIME DELAY TYPE FUSES FOR EACH FUSIBLE DEVICE, INCLUDING DISCONNECTS, FUSIBLE MOTOR STARTERS, SERVICE SWITCHES. PROVIDE TIME CURRENT CURVES FOR EACH TYPE AND SIZE FUSE USED. PROVIDE ONE SPARE SET OF FUSES FOR EACH SIZE INSTALLED.

B. CARTRIDGE FUSE APPLICATION:

1. MAIN SERVICE: CLASS L FAST ACTING.
2. MAIN FEEDERS: CLASS J TIME DELAY.
3. MOTOR BRANCH CIRCUITS: CLASS RK1 TIME DELAY.
4. OTHER BRANCH CIRCUITS: CLASS RK5 NON-TIME DELAY.

C. MANUFACTURERS: BUSSMAN, EAGLE ELECTRIC, GENERAL ELECTRIC, GOULD.

CONTINUED ON SHEET E-110

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DRAWING #: E-108

INTERIOR LIGHTING

A. PROVIDE AND INSTALL ITEMS AS SPECIFIED HEREIN AND LISTED ON THE LIGHTING FIXTURE SCHEDULE ON THE DRAWINGS.

B. CATALOG NAMES AND NUMBERS USED IN THE LIGHTING FIXTURE SCHEDULE ARE TO ESTABLISH A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED AS LIMITING COMPETITION.

C. IF ALTERNATED, OR OPTIONAL, METHODS ARE PROPOSED AS SUBSTITUTION FOR ANY ONE OF THE LIGHTING FIXTURES, THEY MUST BE EQUAL IN DESIGN AND QUALITY, AS DETERMINED BY THE ARCHITECT/ENGINEER. THE DATA SUBMITTED MUST INCLUDE A DESCRIPTION OF THE LIGHTING FIXTURE, LENS, BALLAST, SHEET METAL GAGE, PHOTOMETRIC DATA, ETC.

D. UPON REQUEST OF THE ENGINEER, A SAMPLE OF THE PROPOSED SUBSTITUTION SHALL BE PROVIDED.

E. FURNISH AND INSTALL ALL LIGHTING FIXTURES COMPLETE WITH LAMPS. PROVIDE 10% ADDITIONAL LAMPS FOR EACH TYPE OF LAMP REQUIRED ON PROJECT AND TURN OVER TO OWNER.

F. ALL LIGHTING FIXTURES SHALL CARRY THE UNDERWRITER'S LABEL OF APPROVAL.

G. FIXTURES SHALL BE FREE OF IMPERFECTIONS, HANDLING, OR INSTALLATION DAMAGE.

H. OBTAIN EXACT LOCATION OF ALL CEILING OUTLETS FROM THE ARCHITECT.

I. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIT OF ALL LIGHTING FIXTURES INTO THE ACTUAL CEILING INSTALLED.

J. ALL WIRING WITHIN EACH LIGHTING FIXTURE SHALL BE CONTAINED IN METALLIC WIRING CHANNEL AND NOT IN THE LAMP CHAMBER.

K. FLUORESCENT LIGHTING FIXTURES SHALL BE "P" RATED, PREMIUM GRADE, AND SO LABELED AS PER NEC.

L. CONFIRM COMPATIBILITY AND INTERFACE OF OTHER MATERIALS WITH LUMINAIRE AND CEILING SYSTEM. REPORT DISCREPANCIES TO THE ENGINEER/ARCHITECT AND DEFER ORDERING UNTIL CLARIFIED.

M. COORDINATE WITH DIVISION 15 TO AVOID CONFLICTS BETWEEN LUMINARIES, SUPPORTS, FITTINGS, AND MECHANICAL EQUIPMENT.

N. ALL INCANDESCENT, FLUORESCENT, METAL HALIDE, AND HIGH PRESSURE SODIUM LAMPS SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, GTE–SYLVANIA, WESTINGHOUSE, OR PHILLIPS.

O. ALL FLUORESCENT LIGHTING FIXTURES SHALL HAVE HIGH POWER FACTOR BALLASTS HAVING A SOUND LEVEL OF "A". BALLASTS CONSIDERED BY THE OWNER OR ENGINEER TO HAVE OBJECTIONABLE NOISE OR HUM SHALL BE REPLACED DURING THE PERIOD OF GUARANTEE AT THE DIVISION 16 CONTRACTOR'S EXPENSE.

P. IT WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY, WITH THE CONSTRUCTION CONTRACTOR, THE TYPES OF CEILINGS IN ALL ROOMS HAVING TROFFERS, AS TO THE TYPE OF TROFFER CONSTRUCTION REQUIRED TO MATCH THE CEILING CONSTRUCTION

Q. MOUNT HIGH INTENSITY DISCHARGE BALLASTS ON RUBBER GROMMETS TO REDUCE NOISE TRANSMISSION.

R. ALL METAL PARTS SHALL BE GROUNDED AS A COMMON UNIT.

S. SUPPORT FLUORESCENT LUMINARIES DIRECTLY FROM BUILDING STRUCTURE BY ROD HANGERS AND INSERTS, OR METAL ANGLE HEADERS SUPPORTED FROM FRAMING STRUCTURE OF CEILING SUSPENSION SYSTEM.

T. INSTALL RECESSED LUMINARIES TO PERMIT REMOVAL FROM BELOW, TO GAIN ACCESS TO OUTLET OR PRE–WIRED LIGHTING FIXTURE BOX.

ELECTRICAL SERVICE

A. PROVIDE NEW ELECTRIC SERVICE AT LOCATION AS INDICATED ON THE DRAWINGS.

B. PROVIDE ALL METERS, METER CABINETS, CT'S AND CABINETS, RELATED SUPPORTS AND MOUNTING APPARATUS, AND AS REQUIRED BY UTILITY COMPANY.

C. FOR PAD MOUNTED TRANSFORMER INSTALLATIONS, PROVIDE TRANSFORMER PAD AND GROUND MAT IN COMPLIANCE WITH UTILITY COMPANY REQUIREMENTS.

D. FOR UNDERGROUND LATERALS, USE RIGID GALVANIZED STEEL CONDUIT WITH ASPHALT COATING. BURY AT DEPTH AS PRESCRIBED IN NEC. PROVIDE EXCAVATION, BACKFILL, AND SURFACE RESTORATION IN COMPLIANCE WITH APPLICABLE PROVISIONS OF THE SPECIFICATION. WHERE SUCH PROVISIONS ARE NOT STATED IN THE CONTRACT DOCUMENTS, NOTIFY THE ARCHITECT PRIOR TO SUBMITTING A PROPOSAL, FOR CLARIFICATION.

E. REVIEW THE PROPOSED SERVICE INSTALLATION WITH THE LOCAL ELECTRICAL INSPECTOR PRIOR TO ROUGHING IN. NOTIFY THE ARCHITECT OF ANY CHANGES THAT MATERIALLY DIFFER FROM THE CONTRACT DOCUMENTS.

F. GROUND SERVICE AND TRANSFORMER IN COMPLIANCE WITH NEC.

G. INCLUDE ALL UTILITY COMPANY FEES AND CHARGES, INCLUDING NEW SERVICE, TRANSFORMERS, AND METERING.

FIRE ALARM SYSTEM

A. EXPANSION OF EXISTING FIRE ALARM SYSTEM SHALL COMPLY WITH NFPA 72 AND THE NEC. FIRE ALARM SYSTEM SHALL BE UL LISTED.

B. FIRE ALARM SYSTEM SHALL BE A SUPERVISED, NON–CODED, ADDRESSABLE SYSTEM WITH MANUAL AND AUTOMATIC ALARM INITIATION.

C. MULTIPLEXED SIGNAL TRANSMISSION TO FIRE ALARM SERVICE.

D. DEVICES INCLUDE BUT ARE NOT LIMITED TO:

1. MAIN FIRE ALARM CONTROL PANEL WITH EMERGENCY BATTERY POWER SUPPLY
2. REMOTE ANNUNCIATOR PANEL WHICH DUPLICATES FUNCTIONS OF THE FACP FOR ALARM, SUPERVISORY AND TROUBLE INDICATIONS
3. DOUBLE ACTION MANUAL PULL STATIONS
4. PHOTOELECTRIC SMOKE DETECTORS
5. HEAT DETECTORS
6. DUCT SMOKE DETECTORS: PHOTOELECTRIC TYPE, COMPLETE WITH SAMPLING TUBE AND REMOTE TEST STATION
7. RELAY FAN SHUTDOWN: RATED TO INTERRUPT FAN MOTOR CONTROL CIRCUIT
8. VISUAL ONLY DEVICES: XENON STROBE LIGHT WITH CLEAR OR NOMINAL
9. WHITE POLYCARBONATE LENS, THE WORD "FIRE" IS ENGRAVED ON THE LENS
10. AUDIO/VISUAL ALARM DEVICE: ELECTRIC VIBRATING 24V DC HORN AND XENON STROBE LIGHT
11. DIGITAL COMMUNICATOR OR TAPE DIALER. SYSTEM SUPPLIER SHALL VERIFY WITH AUTHORITY HAVING JURISDICTION FOR THE METHOD OF RECEIVING A TRANSMITTED FIRE ALARM SIGNAL.

E. WIRING

1. INSTALL ALL SYSTEM WIRING IN METAL RACEWAY IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
2. COLOR CODING: USE ONE COLOR FOR ALARM CIRCUIT WIRING AND A DIFFERENT COLOR FOR SUPERVISORY CIRCUITS PER MANUFACTURER'S WIRING INSTRUCTIONS.

F. INSTALLATION

1. ENGAGE A LICENSED, FACTORY AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT, FIELD ASSEMBLE COMPONENTS AND CONNECTIONS; SUPERVISE PRETESTING, TESTING AND FINAL ADJUSTMENT OF THE SYSTEM. PREPARE FORMS FOR SYSTEMATIC RECORDING OF ACCEPTANCE TEST RESULTS.
2. PROVIDE EIGHT (8) HOURS OF TRAINING TO OWNERS MAINTENANCE PERSONNEL.

G. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH THE REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE: CERBERUS PYROTRONICS, EDWARDS SYSTEMS TECHNOLOGY, SIMPLEX TIME RECORDER CO., NOTIFIER OR LIFE SAFETY.

CONNECTION TO MECHANICAL EQUIPMENT

A. THE ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES (SIZED AS REQUIRED) OR THERMAL SWITCHES WITH PILOT LIGHTS, ON ALL MECHANICAL EQUIPMENT AS REQUIRED BY NATIONAL ELECTRICAL CODE, WHEN EQUIPMENT IS NOT SUPPLIED WITH SAME.

B. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SINGLE– OR THREE–PHASE AC POWER, AS REQUIRED, TO ALL MECHANICAL EQUIPMENT PROVIDED AND INSTALLED BY DIVISION 15.

C. ALL CONTROL DEVICES (THERMOSTATS, ETC.) REQUIRED FOR MECHANICAL EQUIPMENT OPERATION SHALL BE PROVIDED, INSTALLED, AND WIRED BY THE RESPECTIVE MECHANICAL CONTRACTOR.

SECTION 16231 – PACKAGED ENGINE GENERATOR

A. UNIT DESCRIPTION

1. SPARK IGNITED, NATURAL GAS UNIT WITH AUTO CHANGE OVER TO LP FUEL. 125 kW, 156kVA, 208/120 VOLT THREE PHASE, FOUR WIRE 60 hz SYSTEM. INTEGRAL 3P.400A MAIN CIRCUIT BREAKER. ALL WEATHER HOUSING WITH CRITICAL MUFFLER. 1.2kW WATER JACKET HEATER AT 120/1/60. CUMMINS HEAVY–DUTY 4 CYCLE INDUSTRIAL ENGINE.

2. 105 DEG. C ALTERNATOR, LOW REACTANCE 2/3 PITCH WINDING, LOW WAVEFORM DISTORTION WITH NON–LINEAR LOADS, FAULT CLEARING SHORT CIRCUIT CAPABILITY, CLASS H INSULATION, MIN. MOTOR STARTING OF 422 kVA, PERMANENT MAGNET GENERATOR (PMG) FOR ENHANCED MOTOR STARTING CAPABILITY. GEN SET SHALL BE CAPABLE OF ACCEPTING 100% OF NAMEPLATE STANDBY RATING IN ONE STEP IN COMPLIANCE WITH NFPA 110 REQUIREMENTS. ELECTRONIC ISOCHRONOUS GOVENOR. MAX. FUEL CONSUMPTION OF 1482 cfh AT FULL LOAD. STARTING: 12 VOLT NEGATIVE GROUND.

END OF ELECTRICAL SPECIFICATIONS

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