SUNY PURCHASE COLLEGE

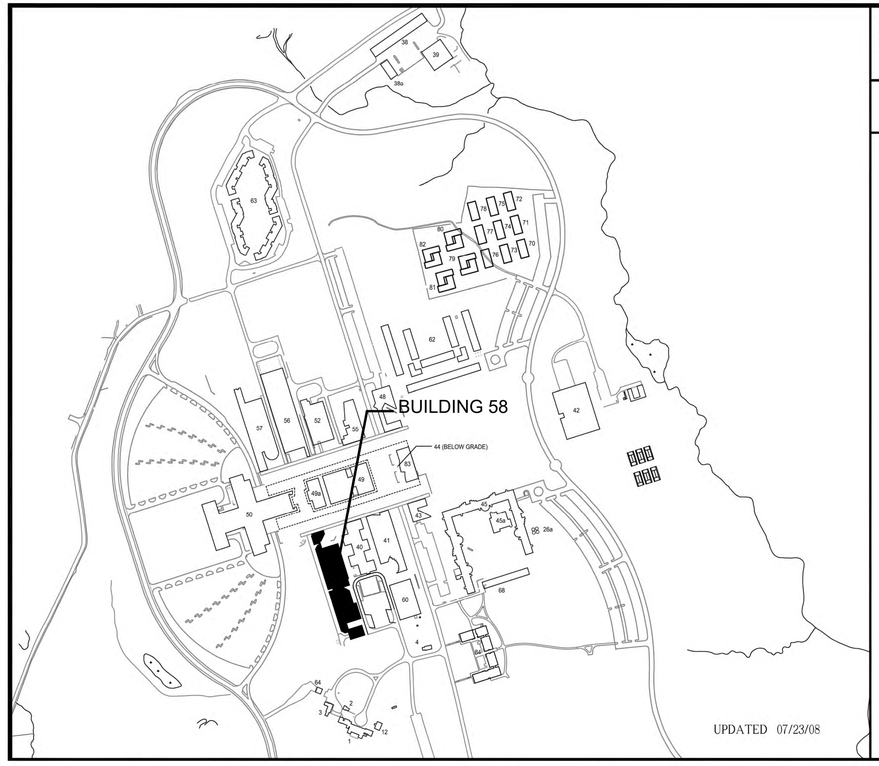
VISUAL ARTS PERCEPTION LAB RENOVATION

735 ANDERSON HILL RD.

PURCHASE, NY 10577

SUNY PURCHASE PROJECT NUMBER: SU-021119

ISSUED FOR: BID, FEBRUARY 3, 2020



Purchase College
STATE UNIVERSITY OF NEW YORK

Campus Owned Facilities

BUILDING INDEX

1. ADMINISTRATION BUILDING
2. BUSINESS ANNEX
3. CAPITAL FACILITIES PLANNING
4. GATE HOUSE
12. HUMAN RESOURCES BUILDING
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37. BEECHWOOD GARAGE (not shown)
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38a. AUTO REPAIR SHOP
39. HEATING PLANT
40. NEUBERGER MUSEUM
41. HUMANITIES BUILDING
42. PHYSICAL EDUCATION BUILDING
43. CAMPUS CENTER SOUTH
44. MECHANICAL SERVICES
45. DORMITORY STAGE XIV
45a. MAIN DINING HALL STAGE XIV
48. CAMPUS CENTER NORTH
49. LIBRARY
49a. CAMPUS BOOKSTORE
50. THE PERFORMING ARTS CENTER
52. NATURAL SCIENCE BUILDING
55. SOCIAL SCIENCE BUILDING
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58. VISUAL ARTS FACILITY
60. STUDENT CENTER / CHILDREN'S CENTER
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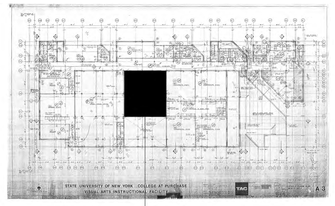
81. ALUMNI VILLAGE 12
82. ALUMNI VILLAGE 13
83. STUDENT SERVICES BUILDING
84. NEW RESIDENCE HALL

VACINITY MAP

THE PROJECT SHALL CONSIST OF A RENOVATION OF AN EXISTING PERCEPTION LAB AND MAKE IT ACOUSTICALLY SOUND. WORK SHALL INCLUDE THE REMOVAL OF EXISTING STUD SOFFIT'S AND METAL CEILING PANEL, EXISTING LIGHT FIXTURES AND MEZZANINE. NEW CONSTRUCTION SHALL INCLUDE RESILIENT HUNG GYP. BD. SOFFITS AS WELL AS AN ADA RAMP AND NEW STAIRS, WITH SOUND RESISTANT WALL FOR A NEW GALLERY SPACE.

PROJECT DESCRIPTION



ROOM 1016

LOCUS MAP

OWNER:
SUNY PURCHASE COLLAGE
735 ANDERSON HILL RD
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PROJECT TEAM

DRAWING LIST

SHEET #:	DRAWING NAME:	ISSUED FOR:	ISSUE DATE:
G000	TITLE PAGE	BID	9.10.2019
G001	SYMBOLS & ABBREVIATIONS	BID	9.10.2019
G002	GENERAL NOTES	BID	9.10.2019
G003	GENERAL NOTES	BID	9.10.2019
G101	FIRST FLOOR CODE & REFERENCE PLAN	BID	9.10.2019
ARCHITECTURAL			
AD101	DEMOLITION FLOOR PLAN	BID	9.10.2019
A101	CONSTRUCTION AND FINISH PLAN	BID	9.10.2019
A201	REFLECTED CEILING PLAN	BID	9.10.2019
A501	WALL TYPES / DOOR DETAILS / DOOR SCHEDULE	BID	9.10.2019
A502	DOOR SPECIFICATIONS	BID	9.10.2019
A601	RAMP DETIALS	BID	9.10.2019
A602	RAMP / STAIR / AND SOFFIT DETAILS	BID	9.10.2019
A701	INTERIOR ELEVATIONS	BID	9.10.2019
FIRE ALARM			
FA-001	FIRE ALARM SYMBOLS LIST, GENERAL NOTES, MOUNTING DETAIL, RISER DIAGRAM AND DRAWING LIST	BID	2.11.2019
FAD-101	FIRE ALARM DEMOLITION PLAN	BID	2.11.2019
FA-101	FIRE ALARM PLAN	BID	2.11.2019
FA-200	FIRE ALARM VISUAL ARTS BUILDING NORTH PLAN	BID	2.11.2019
FA-300	FIRE ALARM SPECIFICATIONS	BID	2.11.2019
MECHANICAL			
M-001	MECHANICAL SYMBOLS LIST, ABBREVIATIONS, GENERAL NOTES AND DRAWING LIST	BID	2.11.2019
M-100	MECHANICAL DEMOLITION EXISTING PLAN	BID	2.11.2019
M-101	MECHANICAL CONSTRUCTION PLAN	BID	2.11.2019
M-200	MECHANICAL SCHEDULES AND DETAILS	BID	2.11.2019
M-300	MECHANICAL SPECIFICATIONS	BID	2.11.2019
ELECTRICAL			
E-001	ELECTRICAL ABBREVIATIONS GENERAL NOTES, LIGHTING SCHEDULE, CODE COMPLIANCE AND DRAWING LIST	BID	2.11.2019
E-002	ELECTRICAL VISUAL ARTS BUILDING NORTH FIRST FLOOR PLAN	BID	2.11.2019
E-003	ELECTRICAL VISUAL ARTS BUILDING NORTH SECOND FLOOR PLAN	BID	2.11.2019
ED-101	ELECTRICAL DEMOLITION PLAN	BID	2.11.2019
ED-102	ELECTRICAL LIGHTING DEMOLITION PLAN	BID	2.11.2019
E-101	ELECTRICAL POWER/DATA PLAN	BID	2.11.2019
E-102	ELECTRICAL LIGHTING PLAN	BID	2.11.2019
E-200	ELECTRICAL PANEL SCHEDULES	BID	2.11.2019
E-300	ELECTRICAL SPECIFICATIONS	BID	2.11.2019

INDEX OF DRAWINGS

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PROJECT
SUNY PURCHASE COLLEGE
VISUAL ARTS PERCEPTION LAB RENOVATION
735 ANDERSEN HILL RD
PURCHASE, NY 10577

REVISIONS

REV	DATE	DESCRIPTION / COMMENTS

SEAL

ISSUED FOR: BID

ISSUED DATE: 2.3.2020

DRAWN BY: JW

CHECKED BY: CM

PROJECT NUMBER: 1418283

DRAWING NAME

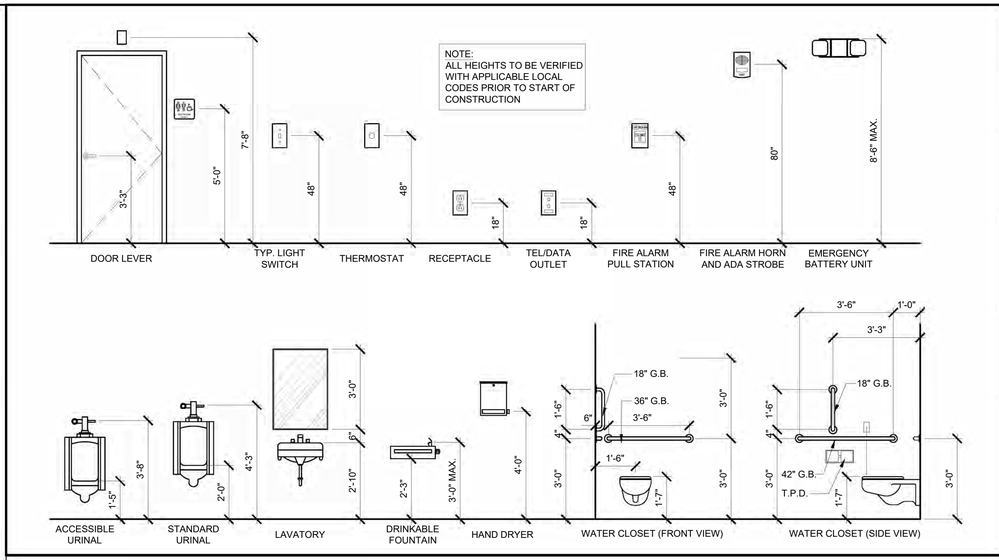
TITLE PAGE

DRAWING NO.

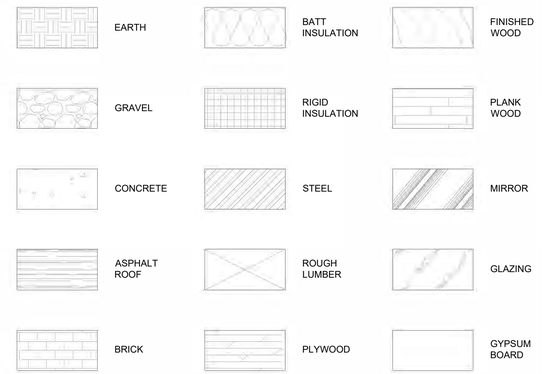
G000

ABBREVIATIONS

A/C	AIR CONDITIONING
ACT.	ACCOUSTIC(AL)
AD.	AREA DRAIN
ADJ.	ADJACENT
AFF.	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
ALUM	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECT(URAL)
∠	ANGLE
@	AT
BD.	BOARD
BET.	BETWEEN
BIT	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
BR.	BEDROOM
BRG.	BEARING
BRKT.	BRACKET
BSMT.	BASEMENT
CAB.	CABINET
CPT.	CARPET
CER.	CERAMIC
CIP.	CAST-IN-PLACE
CIR.	CIRCLE
CJ.	CONTROL JOINT
CLG.	CEILING
CLO.	CLOSET
CLR.	CLEAR
CL.	CENTER LINE
CMT.	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CO.	CLOSE OUT
COL.	COLUMN
COMB.	COMBINATION
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUE
CORR.	CORRIDOR
CORRUG.	CORRUGATED
CRS.	COURSE
CSK	COUNTERSINK
CTR.	CENTER
CU.	CUBIC
DR.	DRAIN
DBL.	DOUBLE
DEM.	DEMOLITION
DEP.	DEPRESS(ED)(ION)
DET.	DETAIL
DIAG.	DIAGONAL
DIA.	DIAMETER
DIM.	DIMENSION
DIV.	DIVISION
DL.	DEAD LOAD
DMPFG.	DAMPPROOFING
DN.	DOWN
DS.	DOWNSPOUT
DWG.	DRAWING
DWR.	DRAWER
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRIC(AL)
EMER.	EMERGENCY
ENC.	ENCLOSE(URE)
ENT.	ENTRANCE
EQ.	EQUAL
EQUIP.	EQUIPMENT
EST.	ESTIMATE
EWC.	ELECTRIC WATER COOLER
EXC.	EXCAVATE
EXH.	EXHAUST
EXIST.	EXISTING
EXPN.	EXPANSION
EXT.	EXTERIOR
FAST.	FASTEN(ER)
FGL.	FIBERGLASS
FIN.	FINISH(ED)
FLR.	FLOOR
FLEX.	FLEXIBLE
FLG.	FLASHING
FLUR.	FLUORESCENT
FND.	FOUNDATION
FP.	FIRE PROOFING
FT. OR '	FOOT, FEET
FTG.	FOOTING
FUR.	FURRED, FURRING
FXT.	FIXTURE
GA.	GAUGE, GAGE
GALV.	GALVANIZED
GC.	GENERAL CONTRACTOR
GKT.	GASKET
GL.	GLASS, GLAZING
GR	GRADE(ING)
GVL.	GRAVEL
GWB.	GYPSUM WALLBOARD
GYP.	GYPSUM
HC.	HOLLOW CORE
HDW.	HARDWARE
HM.	HOLLOW METAL
HOR.	HORIZONTAL
HP.	HORSEPOWER
HR.	HOUR
HT.	HEIGHT
HTR.	HEATER HEATING
HVAC	VENTILATION AIR CONDITIONING
HWD.	HARDWOOD
ID.	INSIDE DIAMETER
IN. OR "	INCH
INCL.	INCLUDE
INSUL.	INSULATE(D), INSULATION
INT.	INTERIOR
INTM.	INTERMEDIATE
INV.	INVERT
JST.	JOIST
JAN.	JANITOR
JB.	JUNCTION BOX
JC.	JANITOR'S CLOSET
JT.	JOINT
KO.	KNOCK OUT
LAM.	LAMINATE
LAV.	LAVATORY
LB.	POUND
LIN.	LINEAR
LL.	LIVE LOAD
LT.	LIGHT
LVR.	LOUVER
LW.	LIGHTWEIGHT
MACH.	MACHINE
MAS.	MASONRY
MAX.	MAXIMUM
MBR.	MEMBER
MECH.	MECHANIC(AL)
MED.	MEDIUM
MEMB.	MEMBRANE
MTL.	METAL
MFR.	MANUFACTURER
MH.	MANHOLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MLD.	MOLDING
MO.	MASONRY OPENING
MOD.	MODULAR
MOV.	MOVEABLE
MR.	MOISTURE RESISTANT
MRL.	MINERAL
MTD.	MOUNTED
MTG.	MEETING
MATL.	MATERIAL
MULL.	MULLION
NA.	NOT APPLICABLE
NAT.	NATURAL
NIC.	NOT IN CONTRACT
NOM.	NOMINAL
NTS.	NOT TO SCALE
OC.	ON CENTER
OD.	OUTSIDE DIAMETER
OFF.	OFFICE
OPG.	OPENING
OPP.	OPPOSITE
OZ.	OUNCE
PC.	PRECAST
PCF.	POUNDS PER CUBIC FOOT
PERF.	PERFORATED
PERP.	PERPENDICULAR
PK.	PARKING
PL.	PLATE
PLAS.	PLASTER
PLF.	POUNDS PER LINEAR FOOT
PLS.	PLASTIC.
PNL.	PANEL
PNT.	PAINT(ED)
POL.	POLISHED
PR	PAIR
PREFAB.	PREFABRICATED
PROJ.	PROJECTING, PROJECT
PROT.	PROTECTION
PSF.	POUNDS PER SQUARE FOOT
PSI.	POUNDS PER SQUARE INCH
PT.	POINT OR PRESSURE TREATED
PTN.	PARTITION
PVC.	POLYVINYL CHLORIDE
PVMT.	PAVEMENT
%	PERCENT
QT.	QUARRY TILE
R.	RISER
RAD.	RADIUS
RECEPT.	RECEPTACLE
REF.	REFERENCE
REG.	REGISTER
REINF.	REINFORCED, REINFORCING
REM.	REMOVE
REQ.	REQUIRED
RES.	RESILIENT
RET.	RETAIN
REV.	REVISION
RFG.	ROOFING
RFL.	REFLECT(OR)(ED)(IVE)
RM.	ROOM
RO.	ROUGH OPENING
Ø	ROUND, DIAMETER
SAN.	SANITARY
SC.	SOLID CORE
SCH.	SCHEDULE
SEAL.	SEALANT
SECT.	SECTION
SF.	SQUARE FOOT(FEET)
SH.	SHELF, SHELVING
SHO.	SHOWER
SHT.	SHEET
SHTG.	SHEATHING
SIM.	SIMILAR
SPEC.	SPECIFICATION(S)
SPKR.	SPEAKER
SQ.	SQUARE
SST.	STAINLESS STEEL
STA.	STATION
STC.	SOUND TRANSMISSION CLASS
STD.	STANDARD
STL.	STEEL
STG.	STORAGE
STRUCT.	STRUCTURE, STRUCTURAL
SUP.	SUPPORT
SUR.	SURFACE
SUSP.	SUSPENDED
SW.	SWITCH
SY.	SQUARE YARD
SYM.	SYMMETRICAL
SYN.	SYNTHETIC
SYS.	SYSTEM
T.	TOILET
T&G	TONGUE & GROOVE
TEL.	TELEPHONE
TEMD.	TEMPERED
TEMP.	TEMPORARY
M	TEXTURED
THK.	THICK(NESS)
THR.	THRESHOLD
THRU.	THROUGH
TOC.	TOP OF CONCRETE OR CURB
TOL.	TOLERANCE
TOP.	TOP OF PAVEMENT
TOS.	TOP OF SLAB OR STEEL
TOW.	TOP OF WALL
TR.	TREAD
TRANS.	TRANSPARENT
TRT.	TREATED
TV.	TELEVISION
TYP.	TYPICAL
UC.	UNDERCUT
UL.	UNDERWRITER'S LABORATORY
UNFIN.	UNFINISHED UNLESS NOTED
UNO.	OTHERWISE
UR.	URINAL
UTIL.	UTILITY
VAR.	VARNISH
VENT.	VENTILATION
VERT.	VERTICAL
VEST.	VESTIBULE
VNR.	VENEER
VOL.	VOLUME
VTR.	VENT THROUGH ROOM
VWC.	VINYL WALL COVERING
VYL.	VINYL
W.	WIDE, WIDTH
W/	WITH
W/OUT.	WITHOUT
WD.	WOOD
WIN.	WINDOW
WK.	WORKING
WRG.	WATER RESISTANT GYPSUM
WSCT.	WAINSCOT
WT.	WEIGHT
WWF.	WELDED WIRE FABRIC



TYPICAL MOUNTING HEIGHTS



MATERIALS LEGEND

(TYPICAL UNLESS NOTED OTHERWISE)

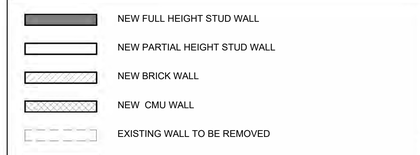
ALL DIMENSIONS SHOWN AS FOLLOWS:

FRAMED CONSTRUCTION
WALLS: FACE OF STUD TO FACE OF STUD
DOORS / WINDOWS: CENTERLINE OF CLEAR ROUGH OPENING
ALL ANGLES ARE 45° OR 90° UNLESS OTHERWISE NOTED

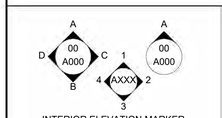
MASONRY / CONCRETE CONSTRUCTION
WALLS: FACE OF MASONRY TO FACE OF MASONRY
DOORS / WINDOWS: MASONRY OPENING

FINISHED DIMENSIONS SHALL BE NOTED AS EITHER FINISHED OR CLEAR ON DIMENSION STRING

DIMENSIONING NOTES

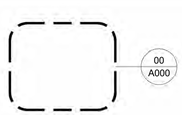


WALL LEGEND

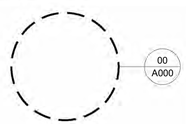


INTERIOR ELEVATION MARKER

TOP LINE = DRAWING NUMBER
BOTTOM LINE = SHEET NUMBER



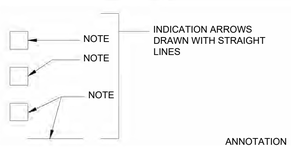
PLAN DETAIL REFERENCE



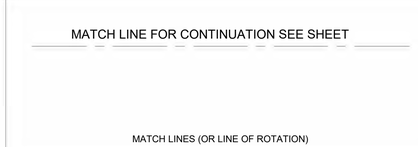
DETAIL REFERENCE

ROOM TAG (BOMA)

TOP LINE = ROOM NAME
INSIDE BOX = ROOM NUMBER
BOTTOM LINE = SQUARE FOOTAGE

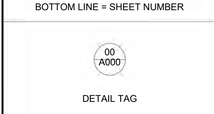


ANNOTATION



MATCH LINES (OR LINE OF ROTATION)

BREAKLINE

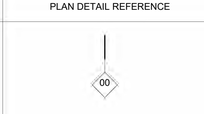


DETAIL TAG

TOP LINE = DRAWING NUMBER
BOTTOM LINE = SHEET NUMBER

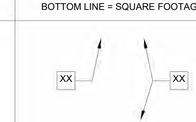
DETAIL HEX (ALTERNATE)

TOP LINE = DRAWING NUMBER
BOTTOM LINE = SHEET NUMBER

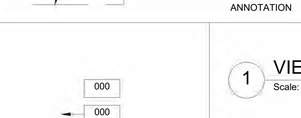


WALL OR PARTITION TAG

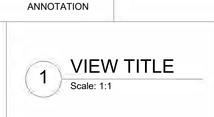
ROOM TAG
TOP LINE(S) = ROOM NAME
INSIDE BOX = ROOM NUMBER



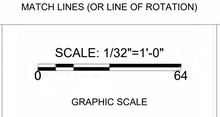
CODED NOTE



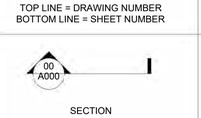
FURNITURE TAG



DRAWING TITLE

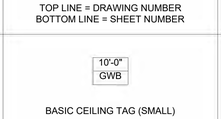


GRAPHIC SCALE



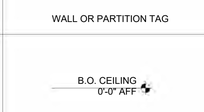
SECTION

TOP LINE = DRAWING NUMBER
BOTTOM LINE = SHEET NUMBER

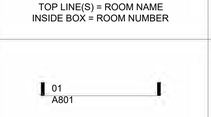


BASIC CEILING TAG (SMALL)

TOP LINE = CEILING HEIGHT
BOTTOM LINE = CEILING FINISH

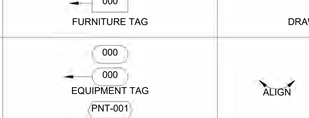


LEVEL TAG



MILLWORK SECTION

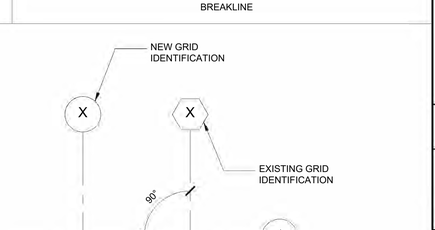
GENERAL NOTE



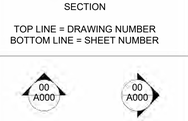
EQUIPMENT TAG

FINISH TAG

DATUM

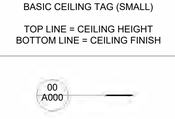


LAYOUT GRID LINES



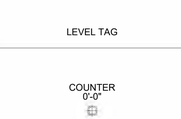
EXTERIOR OR BUILDING ELEVATION

TOP LINE = DRAWING NUMBER
BOTTOM LINE = SHEET NUMBER



DETAIL SECTION

TOP LINE = DRAWING NUMBER
BOTTOM LINE = SHEET NUMBER



SPOT LEVEL

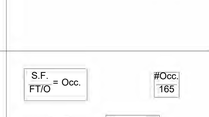
ELEVATION LEVEL

WINDOW TAG

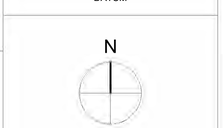
DOOR TAG

PHOTO KEY (BELOW CEILING)

PHOTO KEY (ABOVE CEILING)



EGRESS TAGS



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PROJECT

REVISIONS

REV	DATE	DESCRIPTION / COMMENTS

SEAL

ISSUED FOR: BID
ISSUED DATE: 2.3.2020

DRAWN BY: JW
CHECKED BY: CM

PROJECT NUMBER: 1418283

DRAWING NAME
SYMBOLS & ABBREVIATIONS

DRAWING NO.
G001

DEMOLITION NOTES

1. THE TERM "PATCH AND REPAIR" SHALL BE DEFINED AS: THE PROCESS OF REPAIRING FLOOR, WALL, OR CEILING SURFACES THAT HAVE BEEN DAMAGED OR ARE ADJACENT TO DEMOLISHED CONSTRUCTION. THE REPAIR SHALL INCLUDE, BUT NOT BE LIMITED TO: FILLING VOIDS SOLID WITH CONCRETE, PREPARING SURFACES FOR NEW FINISH MATERIAL PER MANUFACTURER'S RECOMMENDATIONS, MATCH EXISTING FINISHES AND MATERIALS WHERE NO NEW FINISHES ARE CALLED FOR, CLOSING WALL, FLOOR OR ROOF PENETRATIONS AS DIRECTED BY ARCHITECT.
2. THE TERM "SALVAGE" SHALL BE DEFINED AS: THE PROCESS OF THE CONTRACTOR CAREFULLY REMOVING THE MENTIONED ITEM, SUCH THAT IT IS IN A USABLE CONDITION, AND STORING IT (IN LOCATION DETERMINED BY OWNER) UNTIL NEEDED FOR THE CONSTRUCTION PHASE. IF THE CLIENT DOES NOT NEED SAID ITEM CONTRACTOR SHALL DISPOSE OF PROPERLY AT NO ADDITIONAL COST.
3. DEMOLITION CONTRACTOR TO COORDINATE ALL PHASES OF DEMOLITION FOR PROJECT AND NOTIFY ARCHITECT AT OF ANY DISCREPANCIES OR CONFLICTING CONDITIONS WHICH WOULD INTERFERE WITH THE SATISFACTORY COMPLETION OF THE WORK, PRIOR TO THE START OF CONSTRUCTION.
4. COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO SAFETY OF PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION.
5. ERECT AND MAINTAIN DUSTPROOF PARTITIONS AS REQUIRED TO PREVENT SPREAD OF DUST, FUMES, AND SMOKE, ETC. TO OTHER PARTS OF THE BUILDING. ON COMPLETION, REMOVE PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES.
6. IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED, RESTORE EFFECTED AREAS AT NO COST TO THE OWNER.
7. REMOVE FROM SITE DAILY AND LEGALLY DISPOSE OF REFUSE, DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. LEAVE ALL AREAS BROOM CLEAN DAILY.
8. REMOVE DESIGNATED PARTITIONS, COMPONENTS, BUILDING EQUIPMENT, AND FIXTURES AS REQUIRED FOR NEW WORK.
9. REMOVE ABANDONED ELECTRICAL, TELEPHONE AND DATA CABLING AND DEVICES, U.O.N.
10. REF. ARCHITECTURAL AND MEP DRAWINGS. COORDINATE SCOPE OF DEMOLITION WITH ARCH AND MEP.
11. DO NOT ABANDON ANY UTILITIES OR MATERIALS WITHIN SPACE. REMOVE BACK TO THE SOURCE.
12. THE G.C. IS TO FIELD VERIFY ALL DIMENSIONS USING THE CONSTRUCTION DOCUMENTS. IF ANY DISCREPANCIES EXIST, G.C. TO MARK UP THE DRAWINGS REFLECT THE ACTUAL CONDITION. FORWARD THEM TO THE ARCHITECT WITHIN (3) DAYS FOR REVIEW AND CLARIFICATION AS REQUIRED.

HVAC

13. COORDINATE REMOVAL AND / OR RELOCATION OF MECHANICAL UNITS WITH MEP DRAWINGS. RELOCATION OF UNITS REQUIRED BY NEW CONSTRUCTION SHALL BE COORDINATED WITH DEMOLITION WORK.
14. REMOVE ABANDONED HVAC EQUIPMENT, INCLUDING DUCT WORK. DEMO EXISTING MECHANICAL DUCTS BACK TO MAIN TRUNK, VERIFY WITH MEP PRIOR TO THE START OF ANY MECHANICAL DEMO WORK.
15. REMOVE ALL ABANDONED SMOKE FIRE DAMPERS AS REQUIRED BY NEW CONSTRUCTION, INCLUDING ALL ELECTRICAL AND CONNECTIONS.
16. CONTRACTOR SHALL MAINTAIN THE INTEGRITY AND CONTINUITY OF THE EXISTING. BASE BUILDING SYSTEMS AND SHALL EXERCISE CARE BY NOT DEMOLISHING, OR DISRUPTING ANY BASE BUILDING SYSTEMS. ANY DAMAGED AND/OR DISCONNECTED SERVICE SHALL BE RESTORED AT CONTRACTOR'S COST.

ELECTRICAL

17. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY WORK. CONTRACTOR SHALL REWORK BRANCH FEEDER HOME-RUNS AS REQUIRED TO KEEP CONTINUITY TO EXISTING LIGHT FIXTURES, EXIT SIGNS AND DEVICES IN AREAS NOT BE DEMOLISHED.

PLUMBING

18. IN DEMOLITION AREAS, UNUSED PIPING SHALL NOT BE ABANDONED "IN PLACE". PIPING SHALL BE REMOVED BACK TO SOURCE OR POINT OF DISCHARGE, AND THE RESULTING OPENINGS PLUGGED U.N.O.
19. EXISTING PLUMBING FIXTURES AND EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF BY THE CONTRACTOR AS DIRECTED BY THE OWNER.
20. DISCONNECT AND REMOVE EXISTING UNUSED PIPING AND FIXTURES WITHOUT INTERRUPTING EXISTING REQUIRED FUNCTIONING SYSTEMS.
21. UNUSED PIPING AND RELATED ITEMS CONCEALED IN WALLS, FLOORS AND CEILING WITHIN THE STRUCTURE SHALL BE REMOVED WHERE EXPOSED TO VIEW. REMOVAL OF EXISTING PIPING SHALL BE DONE IN A SATISFACTORY MANNER TO THE ENGINEER AND BUILDING ENGINEER.
22. WASTE AND SANITARY DRAINAGE PIPING NOT BEING USED SHALL BE REMOVED AND PLUGGED AT ACTIVE MAIN OR RISER. NO DEAD ENDS SHALL REMAIN LONGER THAN TWO (2) FEET.

FIRE ALARM

23. ALL EXISTING FIRE ALARM EQUIPMENT TO REMAIN. WALL MOUNTED EQUIPMENT (I.E. HORN/STROBE) SHALL BE REMOVED PRIOR TO DEMOLITION OF WALL FINISH MATERIALS AN SALVAGED FOR REINSTALLATION AFTER THE NEW WALL FINISH MATERIAL HAS BEEN INSTALLED.

ACCESSIBILITY NOTES

1. ADA COMPLIANCE - PREMISES MUST COMPLY WITH TITLE III OF THE AMERICANS WITH DISABILITIES ACT (ADA). COMPLIANCE WILL INCLUDE, BUT NOT LIMITED TO, THE DESIGN, CONSTRUCTION AND/OR ALTERATION OF THE PREMISES.
2. IN ALL BUILDINGS, FLOORS OF A GIVEN STORY SHALL BE A COMMON LEVEL THROUGHOUT, OR SHALL BE CONNECTED BY PEDESTRIAN RAMPS, PASSENGER ELEVATORS OR SPECIAL ACCESS LIFT
3. FLOOR SURFACES SHALL BE SLIP-RESISTANT.
4. EVERY CORRIDOR AND AISLE SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE NOT LESS THAN 44" IN WIDTH.
5. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2" IN HEIGHT. LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL. BEVEL OTHERS W/ A SLOPE NO GREATER THAN 1:2
6. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. MOUNT DOOR OPENING HARDWARE BETWEEN 30" AND 44" ABOVE FLOOR FINISH.
7. MAXIMUM PULL OR PUSH EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, MEASURED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING OR FOLDING DOORS. CORRESPONDING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. MAXIMUM EFFORT TO OPERATE REQUIRED FIRE DOORS MAY BE INCREASED NOT TO EXCEED 15 POUNDS.
8. THE BOTTOM 10" OF ALL DOORS (EXCEPT SLIDING AND AUTOMATIC) SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. PROVIDE A 10" HIGH SMOOTH PANEL ON THE PUSH SIDE OF NARROW FRAME DOORS.
9. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE NOT LESS THAN 3' IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32".
10. WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
11. IDENTIFY ACCESSIBLE ENTRANCES WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.
12. THE FLOOR OR LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 44" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION.
13. FLOORS OR LANDINGS SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
14. TO ALERT THE VISUALLY IMPAIRED, MARK THE UPPER APPROACH AND THE LOWER TREAD OF EACH INTERIOR STAIR WITH A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2" WIDE, PLACED PARALLEL TO AND NOT MORE THAN 1" FROM THE NOSE OF THE STEP OR LANDING. THE STRIP SHALL BE OF A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.
15. CENTER ELECTRICAL RECEPTACLE OUTLETS NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORM.
16. PROVIDE A CLEAR FLOOR SPACE 30" X 48" IN FRONT OF LAVATORY TO PERMIT A FORWARD APPROACH.
17. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
18. INSULATE OR OTHERWISE COVER HOT WATER AND DRAIN PIPES UNDER LAVATORIES.
19. THE LOW DRINKING FOUNTAIN BUBBLER SHALL BE ACTIVATED BY MANUALLY OPERATED SYSTEM NOT REQUIRING A FORCE GREATER THAN 5lbf THAT IS LOCATED WITHIN 6 INCHES OF THE FRONT EDGE OF THE FOUNTAIN OR AN ELECTRONICALLY CONTROLLED DEVICE.
20. THE BUBBLER OUTLET ORIFICE SHALL BE LOCATED WITHIN 6" OF THE FRONT OF THE LOW DRINKING FOUNTAIN AND SHALL BE WITHIN 36" OF THE FLOOR. THE WATER STREAM FROM THE BUBBLER SHALL BE SUBSTANTIALLY PARALLEL TO THE FRONT EDGE OF THE DRINKING FOUNTAIN.
21. WALKS, SIDEWALKS AND PEDESTRIAN WAYS SHALL BE FREE OF GRATING WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS GRID OPENINGS IN GRATINGS SHALL BE NO GREATER THAN 1/2" WIDE IN ONE DIRECTION. IF GRATINGS HAVE ELONGATED OPENINGS, THEY SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

CLOSEOUT NOTES

1. THE CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS AND FURNISH OWNER'S REPRESENTATIVE WITH THE CERTIFICATE OF OCCUPANCY. G.C. IS ALSO TO PROVIDE A TYPE-WRITTEN LIST OF NAMES, ADDRESSES AND PHONE NUMBERS OF ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE ENTIRE SPACE CLEANED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE TIME OF TURNOVER.
3. PRIOR TO OPENING OF SPACE, CONTRACTOR IS TO ARRANGE FOR A NEBB CERTIFIED INDEPENDENT BALANCING CONTRACTOR TO BALANCE THE HVAC SYSTEM AND PROVIDE A COPY OF THE BALANCING REPORT TO THE OWNER AND LANDLORD'S REPRESENTATIVE IN A FORMAT ACCEPTABLE TO THE LANDLORD.
4. CONTRACTOR TO TURN OVER ALL KEYS TO THE OWNER'S REPRESENTATIVES AND MARK EACH KEY FOR IDENTIFICATION.
5. THE CONTRACTOR SHALL SET ALL THE TIME CLOCKS, THERMOSTATS, ETC. PER THE REQUIREMENTS OF THE OWNER'S REPRESENTATIVE.
6. THE CONTRACTOR SHALL EXPLAIN THE OPERATION OF ALL MECHANICAL SYSTEMS TO THE OWNER'S REPRESENTATIVE AND PROVIDE COPIES OF OPERATION, MAINTENANCE AND WARRANTY MANUALS.
7. GENERAL CONTRACTOR SHALL SUBMIT ONE COMPLETE SET OF REPRODUCIBLE DRAWINGS INDICATING ALL DISCREPANCIES, CHANGES, ETC. AND ACTUAL LOCATIONS OF CONCEALED WORK (I.E., UNDERGROUND CONDUIT) TO THE OWNER'S REPRESENTATIVE. THE GENERAL CONTRACTOR SHALL ALSO SUBMIT A PHOTOCOPY OF THE ACTUAL PANEL DIAGRAM.
8. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL WARRANTY THE WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY TENANT OF FINISHED WORK.
9. THE GENERAL CONTRACTOR SHALL INSTALL NEW FILTERS IN THE HVAC UNITS AFTER FINAL CLEANING.

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO FEDERAL, STATE AND MUNICIPAL CODES AND ORDINANCES. THESE SHALL SUPERSEDE DRAWINGS, NOTES AND DIMENSIONS IN ALL CASES. THE ARCHITECT SHALL BE NOTIFIED OF SUCH CHANGES BEFORE WORK IS STARTED. CONTRACTOR SHALL OBTAIN PERMITS BEFORE STARTING WORK, AND OBTAIN APPROVALS OF ALL REGULATORY AGENCIES UPON COMPLETION, AND AS REQUIRED
2. THE CONTRACT DOCUMENTS CONSIST OF THE DRAWINGS, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, OWNER-CONTRACTOR AGREEMENTS AND ALL ADDENDA ISSUED PRIOR TO AND ALL PLAN CHANGES ISSUED AFTER EXECUTION OF THE CONTRACT.
3. ALL WORK PERFORMED SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND DRAWINGS, INCLUDING THESE GENERAL NOTES. THE CONTRACTOR SHALL COORDINATE THE INTENT OF THE GENERAL NOTES WITH ALL TRADES.
4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PAYING FOR AND OBTAINING ALL PERMITS, INSPECTIONS, REQUIRED TESTS AND UTILITY CONNECTIONS, TERMINATIONS, AND CAPPING UNLESS OTHERWISE NOTED.
5. AS REQUIRED BY CODE, EACH CONTRACTOR AND EACH SUBCONTRACTOR SHALL OBTAIN REQUIRED INSPECTION OF THAT PORTION OF WORK.
6. CONTRACTOR TO REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.
7. GENERAL CONTRACTOR SHALL SUBMIT A DETAILED PROJECT SCHEDULE AND IS SOLELY RESPONSIBLE FOR CONSTRUCTION SEQUENCING, METHODS AND TECHNIQUES.
8. CONTRACTOR TO COORDINATE WORK WITH THE OWNER, INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, BUILDING ACCESS, USE OF BUILDING SERVICES AND FACILITIES, AND USE OF ELEVATORS. COORDINATE WORK WITH OTHER CONTRACTS. MINIMIZE DISTURBANCE OF BUILDING FUNCTIONS AND OCCUPANTS, INCLUDING TRASH REMOVAL ACCESS.
9. UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN CONTRACT (N.I.C.) OR EXISTING; ALL ITEMS, MATERIALS AND INSTALLATION OF SAME ARE A PART OF THE CONTRACT DEFINED BY THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES, COMPONENTS AND ASSEMBLIES REQUIRED FOR THE WORK SHOWN.
10. OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. CONTRACTOR TO INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
11. ANY WORK INVOLVING ALTERATIONS TO EXISTING BUILDING UTILITIES & WHICH REQUIRE UTILITY SHUT DOWN, SHALL BE COORDINATED WITH THE OWNER AND SHALL REQUIRE A MIN. OF (5) FIVE DAYS NOTICE.
12. CONTRACTOR TO MAINTAIN EXITS, EXIT LIGHTING, FIRE PROTECTIVE DEVICES, AND ALARMS IN CONFORMANCE WITH CODES AND ORDINANCES.
13. CONTRACTOR TO PROTECT AREA OF WORK AND ADJACENT AREAS FROM DAMAGE.
14. CONTRACTOR TO MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION.
15. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO KEEP THE PREMISES CLEAN OF DEBRIS, RUBBISH, EXCESS MATERIALS, ETC. RESULTING FROM THE WORK OF THIS CONTRACT. ALL AREAS SHALL BE BROOM CLEAN EACH WORK DAY. AT THE END OF THE JOB THE SPACE SHALL BE BROOM CLEANED ONE LAST TIME WITH ALL LABELS, STICKERS, PAINT AND WRAPPING MATERIALS REMOVED FROM FIXTURES, WINDOWS AND FLOORS AS TO REQUIRE ONLY NORMAL WASHING AND CLEANING PRIOR TO THE TURNOVER OF THE SPACE TO THE TENANT.
16. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS. SCALES ON DRAWINGS ARE FOR GENERAL REFERENCE ONLY. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES AND CONDITIONS AT SITE PRIOR TO COMMENCING THE WORK, AND REPORT ANY DISCREPANCIES TO THE CONSTRUCTION MANAGER IN WRITING.
17. WHERE EXISTING ACCESS PANELS CONFLICT WITH CONSTRUCTION. CONTRACTOR TO RELOCATE PANELS TO ALIGN WITH AND FIT WITHIN NEW CONSTRUCTION.
18. CONTRACTOR SHALL PROVIDE CONSTRUCTION BARRICADES OR FENCING AS REQUIRED AND AS APPROVED BY THE CITY FOR PUBLIC SAFETY PRIOR TO COMMENCING THE WORK.
19. FIRE PROTECTION EQUIPMENT AND SERVICE ACCESS MUST BE PROVIDED DURING THE CONSTRUCTION PERIOD AS REQUIRED BY THE COUNTY.
20. CONTRACTOR SHALL PROVIDE TEMPORARY EXIT SIGNS TO ASSURE A MEANS OF EGRESS DURING CONSTRUCTION.
21. WHERE A TYPICAL CONDITION IS DETAILED, IT SHALL BE UNDERSTOOD THAT ALL LIKE OR SIMILAR CONDITIONS ARE THE SAME UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE.
22. PUBLIC IMPROVEMENTS AND SERVICES ADJACENT TO THE SITE SHALL BE MAINTAINED DURING CONSTRUCTION. APPROVAL OF THE CITY ENGINEERING DEPARTMENT IS REQUIRED BEFORE ANY WORK IS COMMENCED.
23. EXCEPT WHERE SHOWN IN DIMENSIONAL DETAIL, THE LOCATIONS OF PLUMBING, MECHANICAL EQUIPMENT, DUCTS, PIPING, AND FITTING ARE ONLY APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR, SUBJECT TO APPROVAL BY THE ARCHITECT.
24. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT PADS AND BASES AS WELL AS POWER AND WATER OR DRAIN INSTALLATIONS WITH EQUIPMENT MANUFACTURERS BEFORE PROCEEDING WITH THE WORK. CHANGES TO ACCOMMODATE FIELD CONDITIONS OR SUBSTITUTIONS SHALL BE MADE AT NO ADDITIONAL COST.
25. CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BLOCKING, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSORIES, FIXTURES AND PARTITIONS AND ALL WALL MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL OR MISCELLANEOUS EQUIPMENT AND FURNISHINGS.
26. THE ORGANIZATION OF THE DRAWINGS AND SPECIFICATIONS SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE.
27. IN THE EVENT OF DISCREPANCIES IN THE DRAWINGS, THE COSTLIER OR MORE RESTRICTIVE CONDITIONS SHALL BE DEEMED THE CONTRACT REQUIREMENT, UNLESS OTHERWISE STATED IN WRITING, FROM THE OWNER OR OWNER'S REPRESENTATIVE. ANY DISCREPANCIES SHOULD IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
28. GENERAL CONTRACTOR SHALL WARRANT WORK PERFORMED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
29. CHARGES FOR EXTRA WORK DONE BY THE CONTRACTOR WILL NOT BE HONORED UNLESS THE WORK AND THE AMOUNT ARE AGREED TO BY THE OWNER, OR THEIR AGENT, IN WRITING BEFORE THE WORK IS DONE, BASED UPON UNIT PRICING.
30. EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE INDICATED ON THESE DRAWINGS AND IN THESE NOTES, COMPLY WITH GENERALLY ACCEPTED INDUSTRY STANDARDS AND INSTALL PRODUCTS IN STRICT COMPLIANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS
31. THE G.C. IS TO VERIFY THE EXISTING CONDITIONS OF THE SPACE INCLUDING BUT NOT LIMITED TO SLAB CONDITION AND ANY ISSUES THAT MAY EFFECT NEW FLOOR FINISH, IF ANY ISSUES EXIST, CONTACT ARCHITECT.
32. THE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS (IF ANY) 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 AND ELECTRICAL WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CONSULTING ENGINEERS' DRAWINGS THAT WOULD CAUSE AN AWKWARD INSTALLATION, IT SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
33. NO DEVIATION FROM CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
34. WHEN EVALUATING APPEARANCE OR CONFORMANCE WITH DESIGN INTENT, THE WORDS "ACCEPTABLE", "VISIBLE", "INVISIBLE", "MATCHING", "ALIGNED", AND SIMILAR TERMS OF JUDGMENT SHALL MEAN "ACCEPTABLE, ETC., IN THE OPINION OF THE ARCHITECT OR OWNER".
35. CONTRACTOR TO CONDUCT SITE MEETINGS AND WRITE MEETING MINUTES AT FREQUENCY AS DIRECTED BY OWNER. CONTRACTOR AND NECESSARY SUB-CONTRACTORS MUST BE PRESENT, UNLESS WAIVED BY OWNER.
36. CONSTRUCTION WORK HOURS SHALL BE COORDINATED WITH OWNERS SITE REPRESENTATIVE.
37. ALL MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT MUST BE ASBESTOS FREE.
38. ANY PENETRATION OR MODIFICATIONS TO STRUCTURAL STEEL OR CONCRETE MUST BE COORDINATED AND APPROVED BY LANDLORD'S ON-SITE REPRESENTATIVE.
39. ALL REUSED MATERIAL AND EQUIPMENT MUST BE REFURBISHED TO "LIKE NEW" CONDITION.
40. ANY ATTACHMENTS TO STRUCTURE SHALL BE FROM TOP CHORD OF JOIST. NO ATTACHMENT TO THE ROOF DECK IS PERMITTED.
41. CONTRACTOR SHALL PERFORM FIRST-CLASS WORKMANSHIP. ACCEPTANCE IS CONTINGENT UPON OWNERS APPROVAL.
42. DIMENSIONS SHOWN ON PLAN ARE TAKEN FROM FACE OF STUD TO FACE OF STUD.
43. WHERE DIMENSIONS EXIST WITH EXISTING CONSTRUCTION, DIMENSIONS ARE TAKEN FROM FACE OF EXISTING CONSTRUCTION TO FACE OF EXISTING CONSTRUCTION.
44. GC SHALL PROVIDE ALL MANUFACTURES NOTED WITHIN DRAWINGS OR APPROVED EQUAL.

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PURCHASE, NY 10577

REVISIONS

REV	DATE	DESCRIPTION / COMMENTS

SEAL

ISSUED FOR: BID

ISSUED DATE: 2.3.2020

DRAWN BY: JW

CHECKED BY: CM

PROJECT NUMBER: 1418283

DRAWING NAME

GENERAL NOTES

DRAWING NO.

G002

MECHANICAL NOTES

1. MECHANICAL SUPPLY AND RETURN AIR SHAFTS SHALL BE AIRTIGHT AND SEALED.
2. COVER RETURN AIR OPENINGS BEFORE AND DURING CONSTRUCTION.

ELECTRICAL NOTES

1. ELECTRICAL SUBCONTRACTOR TO VERIFY SERVICE PROVIDED IS ADEQUATE. IF NOT, NOTIFY ARCHITECT IMMEDIATELY.
2. PRIOR TO TRENCHING/CORING SLAB, REVIEW LOCATIONS WITH ARCHITECT AND COORDINATE LOCATIONS WITH OWNER. ALL LOCATIONS SHALL BE MARKED FOR LANDLORD APPROVAL PRIOR TO TRENCHING/CORING.
3. COORDINATE INSTALLATION OF TELECOMMUNICATIONS, DATA AND SECURITY SYSTEMS.
4. VERIFY EQUIPMENT SPECIFICATIONS, POWER AND INSTALLATION REQUIREMENTS WITH MANUFACTURER TO ENSURE PROPER FIT AND FUNCTION.
5. VERIFY MOUNTING REQUIREMENTS OF ELECTRICAL, TELEPHONE AND OTHER EQUIPMENT. PROVIDE NON-COMBUSTIBLE BLOCKING WITHIN WALLS AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION.
6. GANG ADJACENT LIGHT SWITCHES AND COVER WITH A SINGLE PLATE.
7. INDICATED DIMENSIONS ARE TO THE CENTER LINE OF OUTLET OR SWITCH, OR CLUSTER OF OUTLETS OR SWITCHES, UNLESS OTHERWISE NOTED.
8. INSTALL OUTLETS ON OPPOSITE SIDES OF PARTITIONS IN SEPARATE STUD CAVITIES. DO NOT INSTALL BACK-TO-BACK.
9. PROVIDE MATCHING COVER PLATES, RECEPTACLES AND RELATED ITEMS. PROVIDE ONE-PIECE TYPE GANG COVER PLATES, UNLESS OTHERWISE NOTED.
10. IDENTIFY DEDICATED OR ISOLATED GROUND ELECTRICAL OUTLETS WITH A RED DOT.
11. MOUNT STANDARD WALL OUTLETS, SWITCHES AND THERMOSTATS AT HEIGHTS REQUIRED BY ADA GUIDELINES, UNLESS OTHERWISE NOTED. WHEN THERMOSTATS AND LIGHT SWITCH OCCUR TOGETHER, INSTALL BOTH ALIGNED HORIZONTALLY WITH CENTER LINE AT +3'-2" ABOVE FINISHED FLOOR.
12. ALL OUTLETS TO BE INSTALLED AS DIMENSIONED ON THIS PLAN. ANY DISCREPANCIES BETWEEN PLAN AND EXISTING FIELD CONDITIONS SHALL BE CLARIFIED WITH THE ARCHITECT BEFORE COMMENCEMENT OF WORK.
13. ALL ELECTRICAL AND TELEPHONE WORK TO BE INSTALLED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF ALL ELECTRICAL CODES, NATIONAL BOARD OF FIRE UNDERWRITERS, UTILITY COMPANIES, TELEPHONE COMPANIES, THE LANDLORD, AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
14. THE GC SHALL PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS AND CEILING AS REQUIRED.
15. ALL SURFACES WITH EXISTING OUTLETS BEING REMOVED SHALL BE PATCHED FLUSH WITH ADJACENT WALL SURFACES.
16. ALL TELEPHONE OUTLETS SHALL BE PROVIDED WITH TWO (2) PULL STRINGS BACK TO THE TELEPHONE EQUIPMENT.
17. U.O.N, ALL ELECTRICAL, TELEPHONE, AND DATA OUTLETS ARE TO BE MOUNTED 15" A.F.F.
18. CENTERLINE TO CENTERLINE DIMENSIONS OF ANY OUTLET PAIR OR GROUP SHALL NOT EXCEED 6".
19. CONTRACTOR TO COORDINATE TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS.
20. IF THE SPACE ABOVE THE SUSPENDED CEILING IS USED AS A RETURN AIR PLENUM, ALL EQUIPMENT AND WIRING(COMMUNICATION, POWER ETC) SHALL BE LISTED FOR INSTALLATION IN A PLENUM.

FIRE DEPARTMENT NOTES

1. PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A WITHIN 75 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT, AND ADDITIONAL EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT FIELD INSPECTOR OR BUILDING DEPARTMENT INSPECTOR
2. PROVIDE EXIT SIGN WITH 6" LETTERS OVER REQUIRED EXITS, WHERE SHOWN ON DRAWINGS, AND ADDITIONAL SIGNS AS REQUIRED BY BUILDING DEPARTMENT INSPECTOR OR FIRE DEPARTMENT FIELD INSPECTOR. CONNECT EXIT SIGNS TO EMERGENCY POWER CIRCUITS. COMPLY WITH BUILDING CODES
3. PROVIDE EMERGENCY LIGHTING OF ONE FOOT-CANDLE AT FLOOR LEVEL. COMPLY WITH BUILDING CODES.
4. MAINTAIN AISLES AT LEAST 44" WIDE AT PUBLIC AREAS.
5. EVERY EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE. ALL NEW DOORS SHALL HAVE APPROVED LEVER HANDLES.
6. DOORS OPENING INTO REQUIRED 1-HOUR, FIRE-RESISTIVE CORRIDORS SHALL BE PROTECTED WITH A SMOKE OR DRAFT STOP ASSEMBLY HAVING A 20-MINUTE RATING AND SHALL BE SELF-CLOSING.
7. 20-MINUTE DOOR JAMBS TO BE TIGHT-FITTING, SMOKE AND DRAFT CONTROLLED.
8. EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL WHEN SERVING 50 OR MORE PERSONS AND IN ANY HAZARDOUS AREA.
9. PROVIDE FIRE DAMPERS OR DOORS WHERE AIR DUCTS PENETRATE FIRE-RATED WALLS OR CEILINGS.
10. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GAS AND HAZARDOUS SUBSTANCES SHALL COMPLY WITH CODE REGULATIONS.
11. WOOD BLOCKING SHALL BE FIRE TREATED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS, ALL FRT WOOD SHALL BEAR APPROPRIATE STAMP.
12. EXTEND OR MODIFY EXISTING FIRE/LIFE SAFETY SYSTEM AS REQUIRED TO PROVIDE AN APPROVED FIRE / LIFE SAFETY SYSTEM FOLLOWING APPROVAL BY LANDLORD'S LIFE SAFETY ENGINEER. SUBMIT PLANS TO FIRE DEPARTMENT WITH COMPLETE DESCRIPTION OF SEQUENCE OF OPERATION, AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
13. LOCATE THE CENTER OF FIRE ALARM INITIATING DEVICES 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK.
14. EMERGENCY WARNING SYSTEMS SHALL ACTIVATE A MEANS OF WARNING FOR THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.
15. ALL FIRE-RATED ASSEMBLES SHALL BE INSTALLED, LABELED, AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE WHEN REQUIRED.
16. PROVIDE FIRE WATCH AT ALL TIMES IF REQ'D BY BLDG RULES AND REGULATIONS AND APPLICABLE CODES.
17. THE CONTRACTOR MUST PROVIDE TO THE FIRE MARSHAL SPRINKLER DRAWINGS AND CALCULATIONS SPECIFICATIONS BEFORE A PERMIT WILL BE ISSUED BY THE BUILDING DEPARTMENT.

FINISH NOTES

1. ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. REPAIR EXISTING SURFACES TO REMAIN AS REQUIRED FOR APPLICATION OF NEW FINISHES.
3. ANY REQUEST FOR MATERIAL SUBSTITUTIONS OF EQUAL QUALITY SHALL BE SENT TO ARCHITECT FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION.
4. WIPE CLEAN ALL SURFACES WITH DAMP CLOTH.
5. RETOUCH OR REFINISH SURFACES DAMAGED BY SUBSEQUENT WORK AS DIRECTED BY GC. THE COST OF SUCH RESTORATION WORK SHALL BE BORNE BY SUB CONTRACTOR.
6. THE GC SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL THE FINISHES IN THE STORE, WALLS, FLOOR AND CEILING PRIOR TO TURNOVER. G.C. SHALL TOUCH UP ALL CORNER BEADS, WALLS, CEILING AND FLOORING AS REQUIRED PRIOR TO TURNOVER AND ANY DAMAGE CAUSED BY OTHER TRADES INCLUDING MILLWORKER.
7. EXAMINE ALL SURFACES TO BE PAINTED UNDER THIS CONTRACT TO VERIFY THAT WORK OF OTHER TRADES IS IN SATISFACTORY CONDITION TO RECEIVE SPECIFIED FINISH.
8. GC SHALL USE CLEAR CAULK BETWEEN MILLWORK AND GYPSUM BOARD WALLS IF REQUIRED TO CREATE A SMOOTH FINISH.
9. GYPSUM WALL BOARD SURFACES SHALL BE WIPED WITH A DAMP CLOTH JUST PRIOR TO APPLICATION OF THE FIRST COAT OF PAINT IN ORDER TO LAY FLAT ANY NAP WHICH MAY HAVE FORMED IN SANDING.
10. PAINTING SUBCONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OR REMOVAL & REINSTALLATION OF HARDWARE, SWITCH/OUTLET COVERS, ETC. TO PROTECT FROM PAINTING.
11. ALL PAINTED SURFACES TO RECEIVE (1) COAT PRIMER & (2) COATS FINISH PAINT (MINIMUM) WITH ADDITIONAL COATS AS REQUIRED FOR PROPER COVERAGE.
12. AT COMPLETION OF PAINTING, ALL PAINT MATERIALS & EQUIPMENT SHALL BE REMOVED, ALL PAINT SPOTS REMOVED AND ALL AREAS THOROUGHLY CLEANED. ANY DIRT OR DEBRIS CAUSED BY WORK SHALL BE CLEANED UP AS WORK PROGRESSES.
13. ALL FLOORING SUBCONTRACTORS SHALL HAVE A MINIMUM OF FIVE YEARS EXPERIENCE WORKING WITH RESPECTIVE FLOORING MATERIAL.
14. ALL FINISHED FLOORING TO BE PROTECTED BY G.C. FOLLOWING INSTALLATION.
15. ALL INTERIOR FINISHES AND FURNISHINGS ARE TO BE CLASS 'A' FIRE-RATED AND ARE TO COMPLY WITH CODE-REQUIRED (INTERIOR FLAME SPREAD) RATINGS.
16. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO SEAL AND CAULK AROUND ALL PENETRATIONS, CRACKS AND CREVICES AND ANY OPENINGS CAPABLE OF HARBORING INSECTS/RODENTS.
17. G.C. TO PROVIDE LEVEL 4 DRYWALL FINISH THROUGHOUT SPACE U.O.N.

REFLECTED CEILING NOTES

1. DESIGN SUSPENDED CEILING FRAMING SYSTEMS TO RESIST A LATERAL FORCE OF 20 % OF THE WEIGHT OF THE CEILING ASSEMBLY AND ANY LOADS TRIBUTARY TO THE SYSTEM. USE A MINIMUM CEILING WEIGHT OF 5 POUNDS PER SQUARE FOOT TO DETERMINE THE LATERAL FORCE.WHERE CEILING LOADS DO NOT EXCEED POUNDS PER SQUARE FOOT AND WHERE PARTITIONS ARE NOT CONNECTED TO THE CEILING SYSTEM:
2. PROVIDE VERTICAL SUPPORT AS REQUIRED PER BUILDING CODES. IN ADDITION, VERTICALLY SUPPORT ENDS OF RUNNERS WITHIN 8" OF DISCONTINUITIES SUCH AS MAY OCCUR WHERE THE CEILING IS INTERRUPTED BY A WALL.
3. SUPPORT LIGHT FIXTURES AND AIR DIFFUSERS DIRECTLY BY WIRES TO THE STRUCTURE ABOVE.
4. LOCATE REGISTERS AND LIGHTING FIXTURES WITHIN GRID LINES. CENTER SPRINKLER HEADS, SPEAKERS, RECESSED FIXTURES, AND SIMILAR CEILING ELEMENTS IN ACOUSTICAL UNITS,U.O.N.
5. FINISH HVAC DIFFUSERS, DRAPERY POCKETS, AND SPEAKER GRILLES TO MATCH ADJACENT FINISH, UNLESS OTHERWISE NOTED.
6. ALL EQUIPMENT SHALL BEAR UL LABELS.
7. CONTRACTOR TO USE LASER FOR LEVELING OF ALL SOFFITS, CEILINGS AND SUSPENDED GRIDS.
8. EMERGENCY & EXIT LIGHTS TO BE INSTALLED ON SEPARATE CIRCUIT.
9. ALL FIXTURES TO BE INSTALLED IN ACOUSTIC CEILINGS TO BE CENTERED IN CEILING GRID,U.O.N.
10. HANGER WIRE AT SUSPENDED GYP BD CEILINGS TO BE 8 GA.; HANGER WIRE AT SUSPENDED ACOUSTICAL CEILINGS TO BE 10 GA
11. HANGER WIRES SHALL BE ATTACHED TO STRUCTURAL STEEL ONLY, WITH U.L. LISTED CLAMPS. DO NOT HANG SUPPORT WIRES FROM MECHANICAL EQUIPMENT OR PIPING. SCREWS ARE NOT PERMITTED IN METAL DECKING.
12. ALL SUSPENDED CEILING SYSTEMS TO BE INSTALLED PER INDUSTRY STANDARDS, ALL CODE REQUIREMENTS, AND ALL RECOMMENDATIONS OF THE MANUFACTURER OF THE SYSTEM.
13. ALL LIGHT FIXTURES, HVAC EQUIPMENT AND DIFFUSERS SHALL BE SUPPORTED FROM THE TOP CHORD OF STRUCTURAL JOIST ABOVE.
14. GC SHALL VERIFY ALL CEILING HEIGHTS, AND CONFIRM THAT THE WORK CAN BE BUILT AS SHOWN. IN THE EVENT OF ANY CONFLICTS OR OMISSIONS WITHIN THE DRAWINGS, GC TO CONTACT ARCHITECT FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF ANY WORK IN QUESTION.
15. CEILING HEIGHT DIMENSIONS ARE TO FINISHED SURFACES.

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PROJECT

SUNY PURCHASE COLLEGE

VISUAL ARTS PERCEPTION LAB RENOVATION

735 ANDERSEN HILL RD
PURCHASE, NY 10577

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GENERAL NOTES

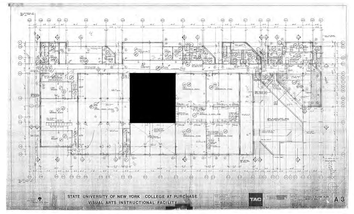
DRAWING NO.

G003

EGRESS / OCCUPANCY FUNCTION KEY

1. EDUCATIONAL AREA (20 NET)
2. EXHIBIT GALLERY AND MUSEUM (30 NET)
3. STORAGE (300 GROSS)

KEY PLAN



CODE INFORMATION KEY

- CONTINUOUS SMOKE BARRIER
- CONTINUOUS 1 HOUR FIRE RATING
- CONTINUOUS 2 HOUR FIRE RATING
- MAXIMUM TRAVEL DISTANCE
- DIRECTION OF EGRESS PATH
- CALCULATED OCCUPANT LOAD: ROOM S.F. / S.F. ALLOWANCE PER OCCUPANT = TOTAL ALLOWED OCCUPANTS
- *SEE "EGRESS/OCUPANCY FUNCTION KEY" OCCUPANCY DESIGNATIONS & CALCULATED AREAS
- OCCUPANCY LOAD
- ACTUAL DOOR/STAIR CAPACITY / ALLOWED DOOR/STAIR CAPACITY
- ACTUAL OCCUPANTS WITH IN SPACE IF ANTICIPATED LARGER THAN CALCULATED
- NON SIMULTANEOUS OCCUPANCY
- HC ACCESSIBLE ROUTE

FIRE RESISTANCE RATINGS

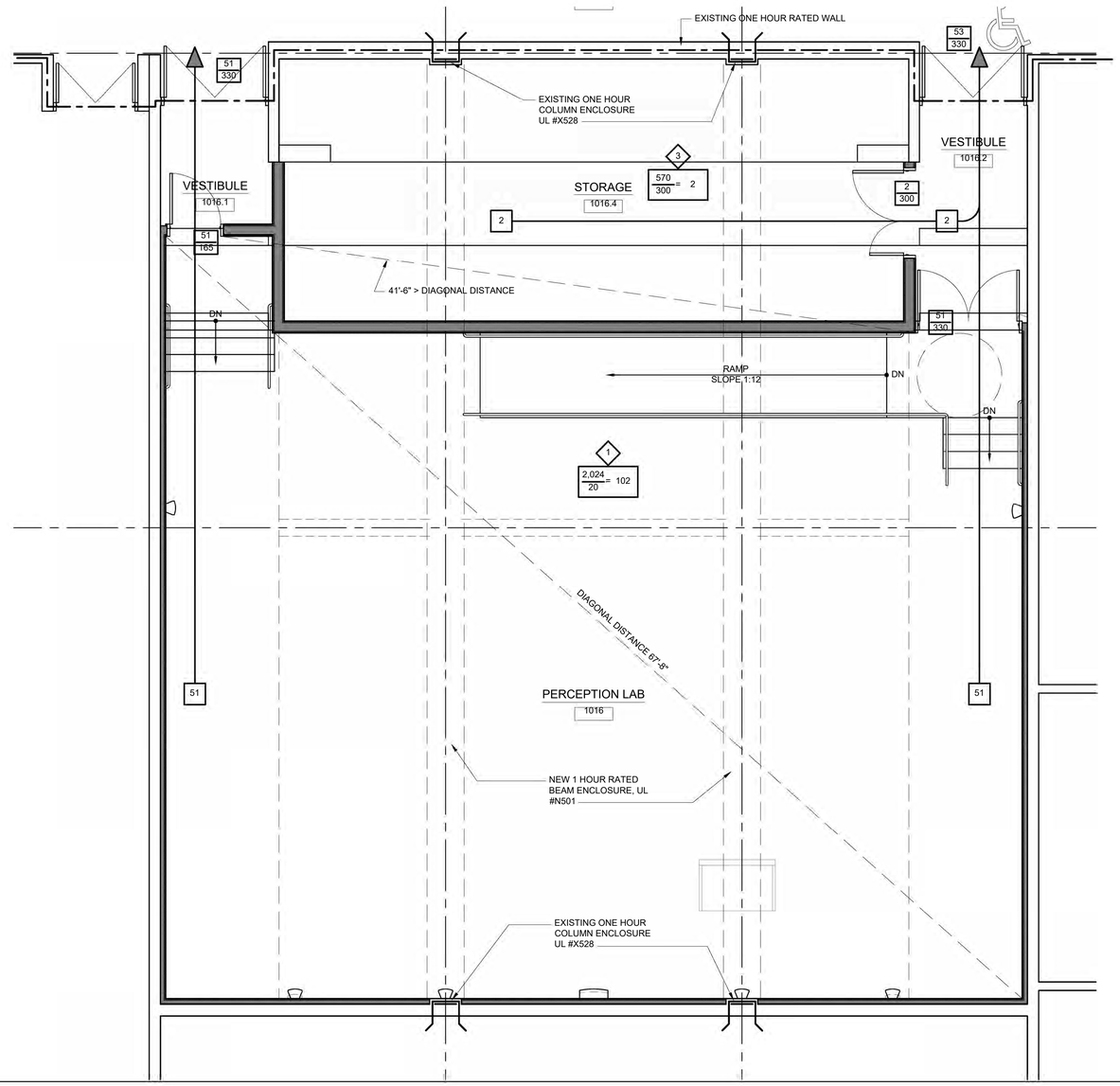
ITEM	CODE SECTION(S)	COMPLIANCE
PRIMARY STRUCTURE FRAME	IBC TABLE 601	1 HOUR(S)
BEARING WALLS		EXTERIOR: 1 HOUR(S) INTERIOR: 1 HOUR(S)
NON-BEARING WALLS		EXTERIOR: 0 HOUR(S) INTERIOR: 0 HOUR(S)
FLOOR CONSTRUCTION		1 HOUR(S)
ROOF CONSTRUCTION		1 HOUR(S)
CORRIDOR	IBC 709.3, TABLE 1018.1	1 HOUR(S) (WITHOUT SPRINKLER)
STAIR ENCLOSURE	IBC 1022.1	1 HOUR(S)

APPLICABLE CODES

BUILDING CODE	2015 INTERNATIONAL BUILDING CODE 2016 UNIFORM CODE SUPPLEMENT
PLUMBING CODE	2015 INTERNATIONAL PLUMBING CODE
MECHANICAL CODE	2015 INTERNATIONAL MECHANICAL CODE
ELECTRICAL CODE	2014 NATIONAL ELECTRICAL CODE
FIRE PREVENTION	2015 INTERNATIONAL FIRE CODE
ACCESSIBILITY	ICC/ANSI A117.12003
ENERGY CODE COMPLIANCE	NY STATE ENERGY CONSERVATION CONSTRUCTION CODE WITH 2016 SUPPLEMENT
ACCESSIBILITY CODE	2010 ADA STANDARDS

DESIGN DATA

ITEM	CODE SECTION(S)	COMPLIANCE
CONSTRUCTION TYPE	IBC 602.1	IIA
USE & OCCUPANCY CLASS	IBC 302 IBC 303.1.1	SEPARATED MIXED USE (B) A BUILDLING OR TENANT SPACE USED FOR ASSEMBLY PURPOSES (A-3 GALLERY) WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY
ACCESSORY OCCUPANCY	508.2.1	(S-2) STORAGE
ALLOWABLE AREA (B)	IBC TABLE 505.2	(B) = 37,500 SF, NON SPRINKLERED
ACTUAL AREA	-	EXISTING TO REMAIN
OCCUPANT LOAD	TABLE 1004.1.2	SEE CODE PLANS FOR OCCUPANT LOAD
ALLOWABLE BUILDING HEIGHT ()	IBC TABLE 504.3 & 504.4	(B) 65', 5 STORY(S) NON SPRINKLERED
ACTUAL BUILDING HEIGHT (IIIB)	-	EXISTING TO REMAIN
FIRE SUPPRESSION	IBC 903.2	NONE
FIRE DETECTION	IBC 907.2	YES
MAX. TRAVEL DIST. (B)	IBC TABLE 1017.2	200'-0" MAX. W/OUT AUTOMATIC SPRINKLER SYSTEM
DEAD END CORRIDOR (B)	IBC 1020.4	(B) = 20' W/OUT AUTOMATIC SPRINKLER SYSTEM
NUMBER OF EXITS (B)	IBC TABLE 1006.2.1	SINGLE EXIT ALLOWED IF: <49 OCCUPANTS & 75'-0" MAX TRAVEL DISTANCE.
2 OR MORE EXITS	IBC 1007.1.1	WHERE 2 EXITS ARE REQUIRED THE DISTANCE BETWEEN THEM SHALL BE NO LESS THAN $\frac{1}{2}$ THE OVERALL DIAGONAL DIMENSION OF THE ROOM / SPACE SERVED



1 REFERENCE PLAN - FIRST FLOOR
SCALE: 1/4"=1'-0"

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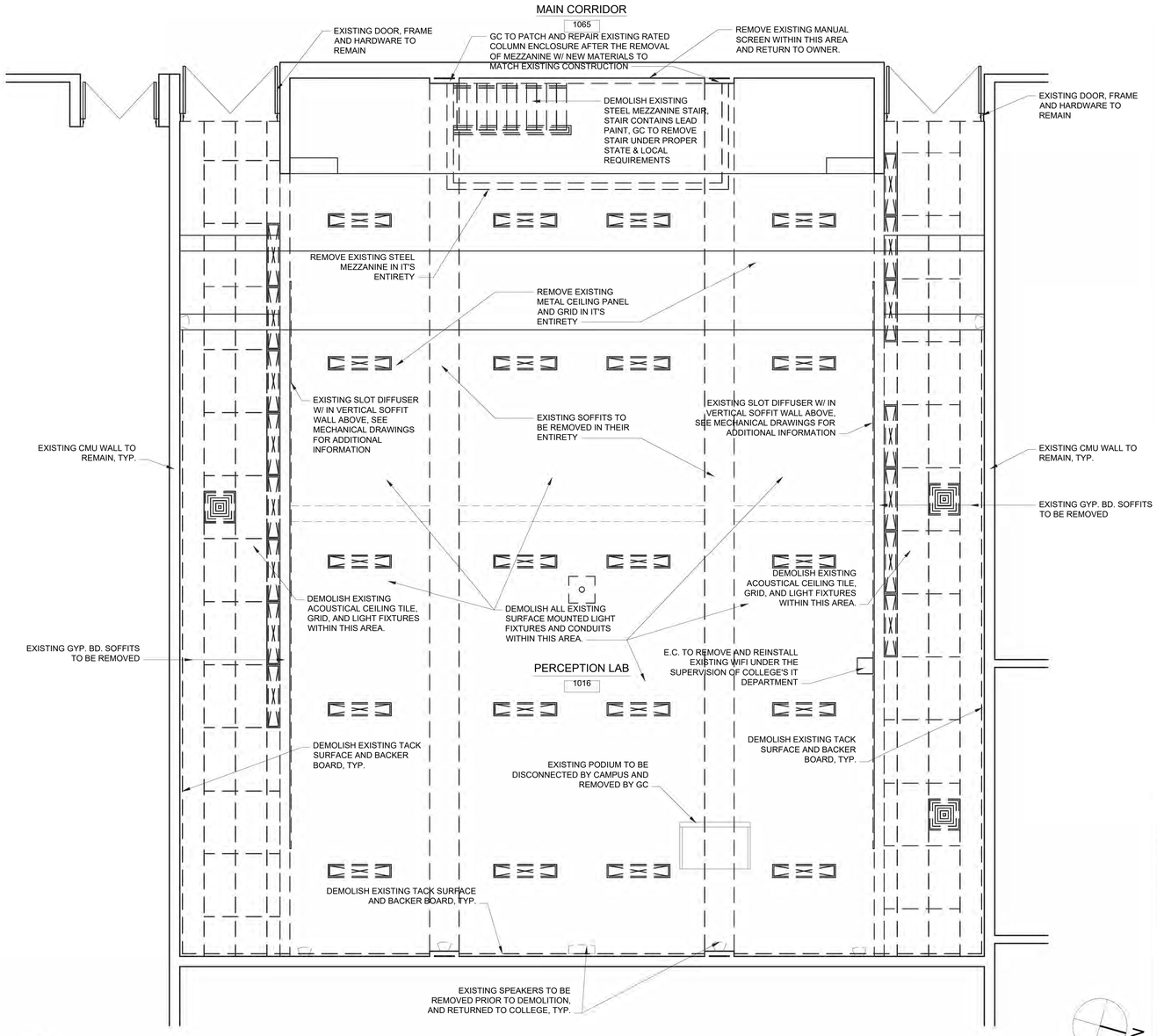
FIRST FLOOR CODE & REFERENCE PLAN

DRAWING NO.
G101

DEMOLITION GENERAL NOTES
1. GC TO REFERENCE MEP DRAWINGS FOR ADDITIONAL DEMO NOTES.



1 PARTIAL DEMOLITION FLOOR PLAN
Scale: 1/4" = 1'-0"

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DEMOLITION FLOOR PLAN

DRAWING NO.
AD101

FINISH PLAN GENERAL NOTES (N.I.C.)

ALL PAINTING SHALL BE COMPLETED BY OTHERS

1. PAINT ALL DOOR FRAMES AND DOORS WITH GLOSS, COLOR TO MATCH BUILDING STANDARD.
2. PAINT HAND RAILS TO MATCH DOOR FRAMES.
3. PAINT ALL WALLS, EGGSHELL DECORATORS WHITE BY BENJAMIN MOORE.

CONSTRUCTION LEGEND

NEW RAISED FLOOR

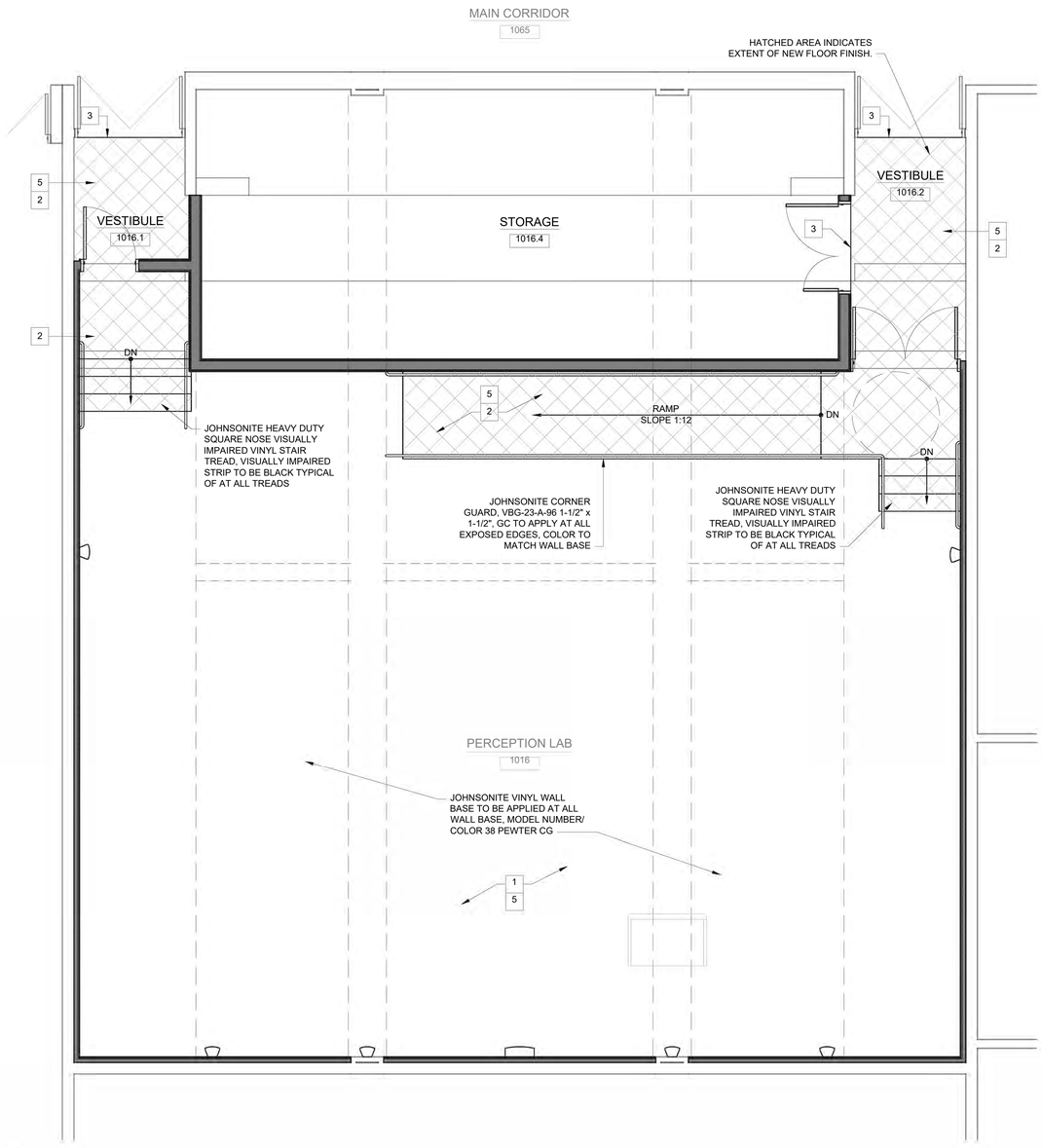
JOHNSONITE IQ OPTIMA VINYL FLOORING, 12 X 24, COLOR TO BE OPTIMA CHIMNEY SWEEP

CONSTRUCTION PLAN CODED NOTES

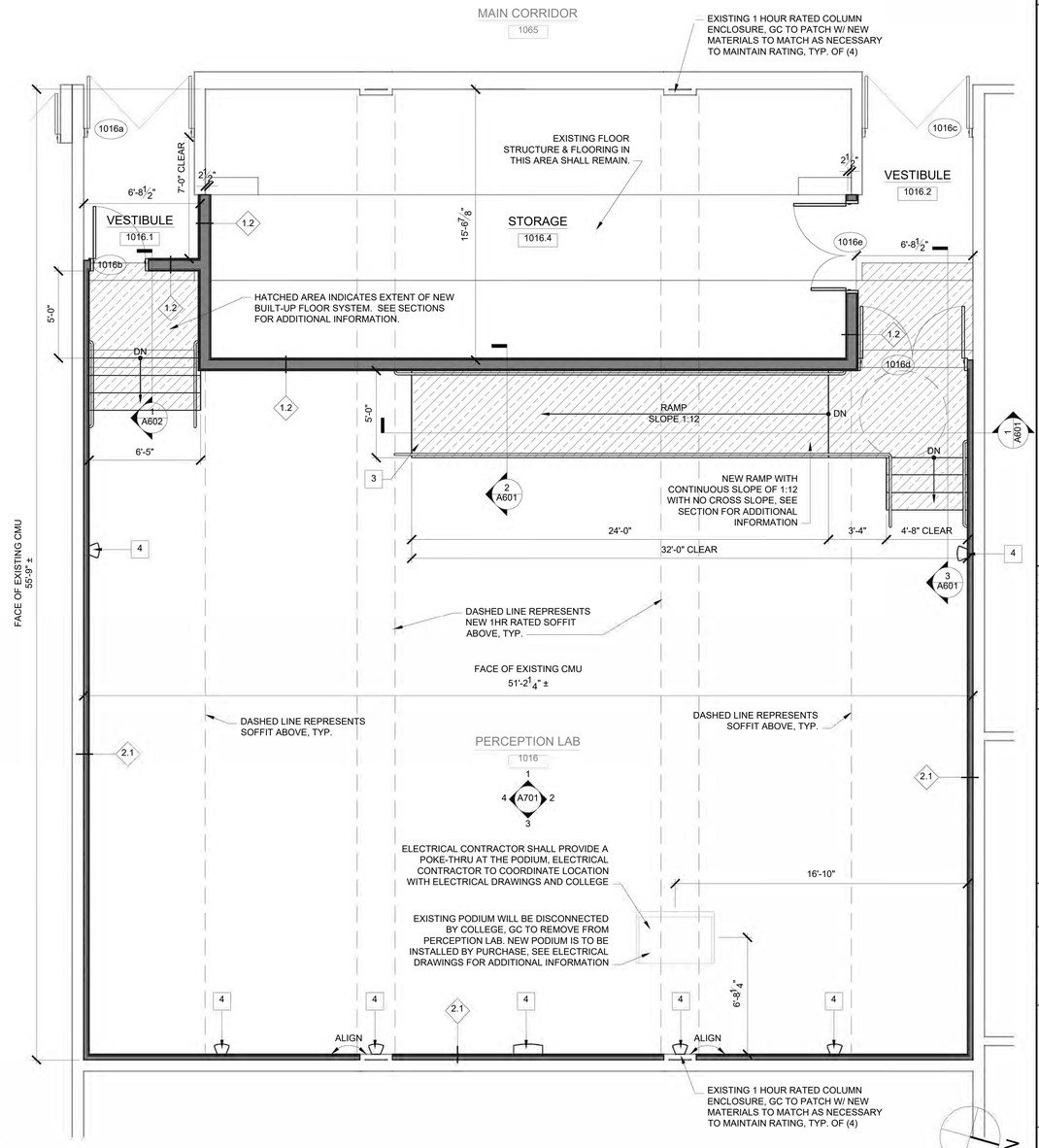
1. CLEAN EXISTING CONCRETE FLOOR WITH AUTOMATIC SCRUBBER AND HEAVY DUTY CONCRETE FLOOR DETERGENT TO REMOVE DIRT, OILS, FILMS, AND OTHER MATERIALS DETRIMENTAL TO SEALER APPLICATION. PROVIDE POLYMER SEALER BY BRUSH, ROLLER, OR AIRLESS SPAY PER MANUFACTURERS RECOMMENDATIONS.
2. NEW VCT TILE FLOORING.
3. NEW FLOOR TRANSITION STRIP.
4. GC SHALL PROVIDE BLOCKING FOR NEW SPEAKER PROVIDED AND INSTALLED BY OTHER. COORDINATE WITH OWNER FINAL LOCATION.
5. JOHNSONITE VINYL WALL BASE TO BE APPLIED AT ALL WALL BASE, MODEL NUMBER/ COLOR 38 PEWTER CG

CONSTRUCTION PLAN GENERAL NOTES

1. GC TO VERIFY ALL DIMENSIONS.
2. EACH SUB CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER PROTECTION AGAINST DAMAGE TO FIXTURES, FURNITURE, ADJACENT FINISHED WORK, FLOORING, ETC. FROM HIS OWN WORK.
3. PREPARE & CLEAN EXISTING SLAB TO RECEIVE FLOORING ADHESIVE FOR A FLUSH, SMOOTH FINISH.
4. ENTIRE SUB-FLOOR TO BE FLAT, SMOOTH, LEVEL & READY TO CEVEIVE NEW FLOORING.
5. ALL FINISHED FLOORING TO BE PROTECTED BY G.C. FOLLOWING INSTALLATION.
6. USE ONLY MANUFACTURERS REQUIRED ADHESIVES AND SEALANTS FOR ALL INTERIOR FINISHES. ALL ADHESIVES USED ARE TO BE ENVIRONMENTALLY SAFE AND CONTAIN NO SOLVENTS, ALCOHOL, GLYCOL, AMMONIA OR CARCINOGENS AND MUST BE A LOW V.O.C. PRODUCT.
7. ALL FLOOR FINISHES TO EXTEND TO MEET WALL.
8. PROVIDE METAL TRANSITION STRIPS AT ALL CHANGE IN FLOORING AND EXPOSED EDGES OF FLOOR FINISH.



2 FINISH PLAN
Scale: 1/4" = 1'-0"



1 LAYOUT FLOOR PLAN
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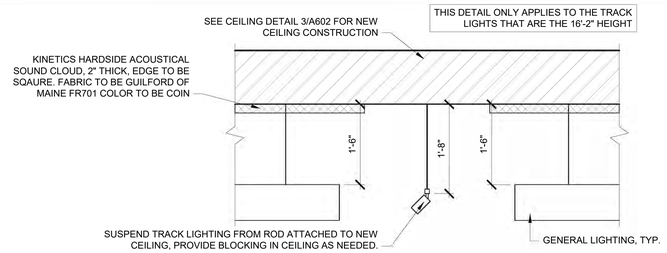
LAYOUT FLOOR PLAN

DRAWING NO.

A101



3 TRACK LIGHT DETAIL

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

CEILING KEY PLAN

- 2x2 LED FIXTURE (SUPPLIED BY OTHERS, INSTALLED BY GC)
- SUPPLY/ RETURN GRILL
- NEW GYPSUM BOARD CEILING
- MOVABLE TRACK LIGHTING PHILLIPS OMNISPOT LED NARROW FLOOD, MOUNT FLUSH TO CEILING UNLESS OTHERWISE NOTED (SUPPLIED BY OTHERS, INSTALLED BY GC)
- PENDANT LIGHT - FINELITE - FL_HP-4 ID - 8' - 9TW - TG - F - 120V - FA - FE - DC - C4
- KINETICS HARDSIDE ACOUSTICAL SOUND CLOUD, 2" THICK, EDGE TO BE SQUARE FABRIC TO BE GUILFORD OF MAINE FR701, COLOR TO BE COIN
- NYSTROM RENOVATION ACCESS DOOR

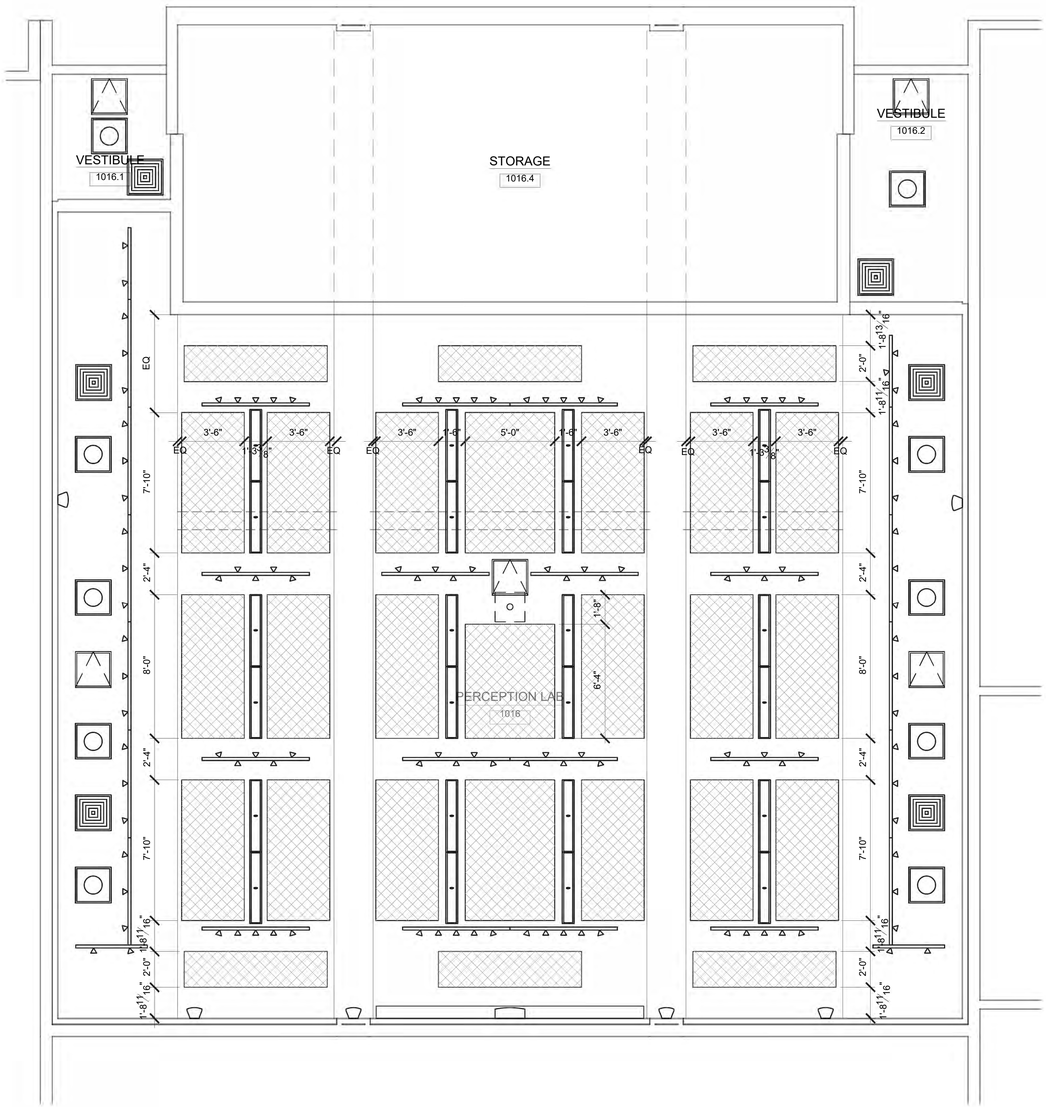
NOTE: - ALL LIGHT FIXTURES AND CONTROLS SHALL BE SUPPLIED BY OTHERS AND INSTALLED BY PROJECT GENERAL CONTRACTOR.

CEILING PLAN CODED NOTES

1. NOT USED.
2. 2'-0" X 2'-0" CEILING ACCESS DOOR.
3. NEW CEILING, 1 HOUR RATED BEAM ENCLOSURE, UL #N501
4. NEW GYP. BD. CEILING
5. NEW PROJECTOR TO BE INSTALLED IN THE SAME LOCATION OF EXISTING PROJECTOR. PROVIDE WOOD BLOCKING ABOVE CEILING AS NEEDED FOR PROJECTOR MOUNT. V.I.F. THE LOCATION OF EXISTING PROJECTOR AND MATCH. PROJECTOR TO BE INSTALLED BY OTHERS, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. SUSPENDED TRACK FROM CEILING, SEE DETAIL 3/A201

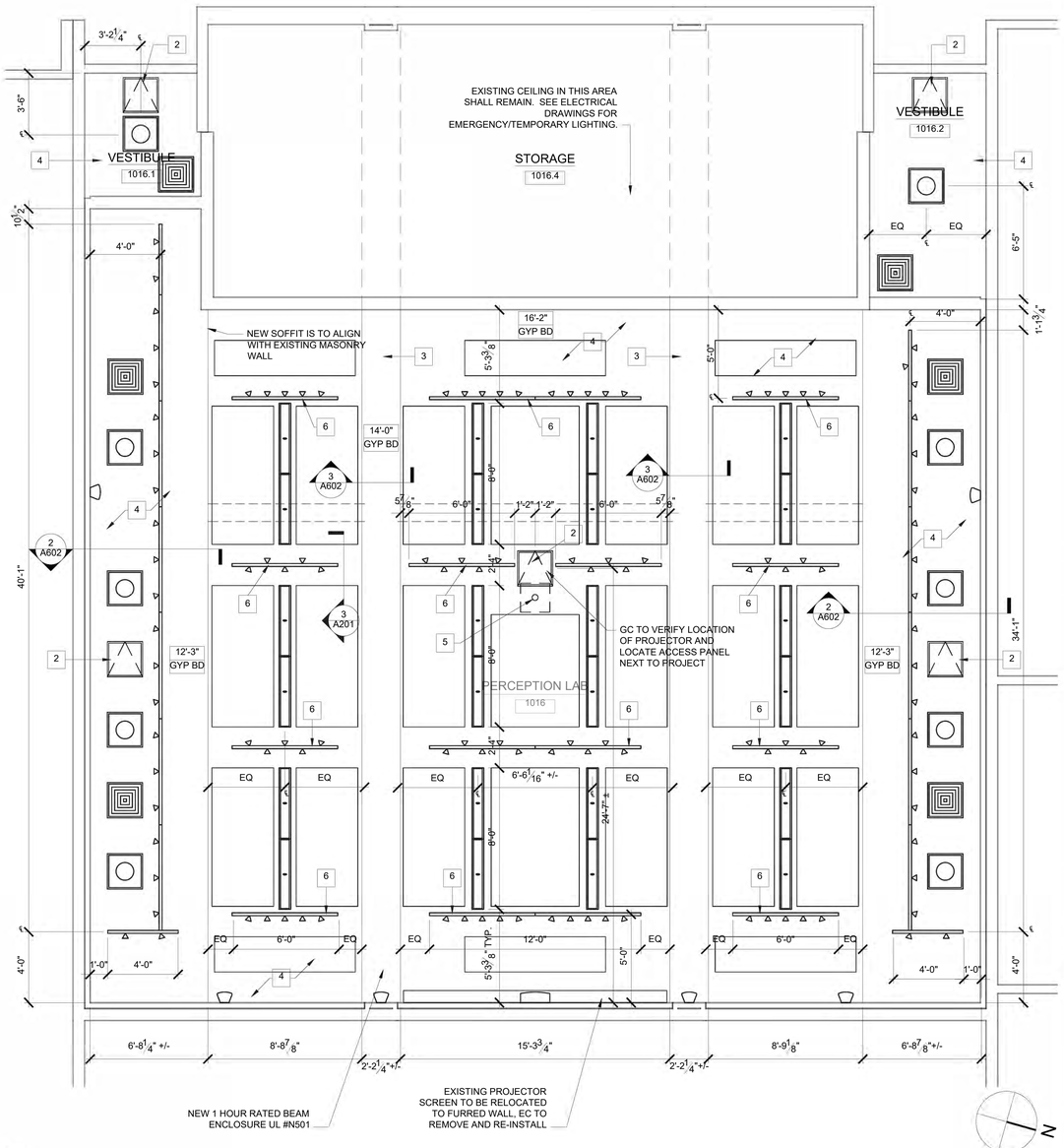
CEILING PLAN GENERAL NOTES

1. ALL GYP. BD. CEILING TO BE PAINTED WHITE.
2. ALL LABELED CEILING HEIGHTS SHALL BE MEASURED FROM THE FINISHED FLOOR ELEVATION OF THAT LEVEL.
3. GC TO COORDINATE EXISTING SMOKE ALARMS AND DETECTORS WITH ACOUSTIC PANELS, SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
4. EC TO COORDINATE ANY IT/AV RELATED ITEMS WITH COLLEGE, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. FINAL LOCATION OF ALL CEILING ELEMENTS TO BE DETERMINED IN FIELD. GC TO COORDINATE WITH OTHER TRADES.
6. **ALL LIGHT FIXTURES SHALL BE SUPPLIED BY OTHERS AND SHALL BE INSTALLED BY PROJECT GENERAL CONTRACTOR.**
7. **THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL LIGHTING CONTROLS.**



2 ACOUSTIC PANEL LAYOUT

Scale: 1/4" = 1'-0"



1 CEILING CONSTRUCTION PLAN

Scale: 1/4" = 1'-0"

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PROJECT
SUNY PURCHASE COLLEGE
VISUAL ARTS PERCEPTION LAB RENOVATION
735 ANDERSEN HILL RD
PURCHASE, NY 10577

REVISIONS

REV	DATE	DESCRIPTION / COMMENTS

SEAL

ISSUED FOR: BID
ISSUED DATE: 2.3.2020

DRAWN BY: JW
CHECKED BY: CM
PROJECT NUMBER: 1418283

DRAWING NAME
REFLECTED CEILING PLAN

DRAWING NO.
A201

DOOR GENERAL NOTES:

1. ALL DOOR HARDWARE SHALL COMPLY WITH FEDERAL AND STATE ACCESSIBILITY REQUIREMENTS.
2. ALL EXIT DOORS TO BE OPENABLE FROM INSIDE WITHOUT USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT.
3. THE MAXIMUM FORCE REQUIRED TO OPERATE ANY DOOR SHALL COMPLY AS FOLLOWS:
   - 3.• INTERIOR DOORS = 5LBS
   - 3.• FIRE-RATED DOORS = MINIMUM ALLOWABLE BY APPROPRIATE ADMINISTRATIVE AUTHORITY.
4. ALL HANDLES AND PULLS TO BE INSTALLED AT 39" A.F.F. TO CENTERLINE.
5. DOOR HARDWARE SPECIFICATIONS:
   - 5.• DOOR LOCKSET AND LATCH SETS SHALL COMPLY WITH ANSI/BHMA A156.2.
   - 5.• DOOR CLOSERS SHALL COMPLY WITH ANSI/BHMA A156.4.
   - 5.• ALL HINGES SHALL COMPLY WITH ANSI/BHMA A156.1.
   - 5.• ALL DOOR STOPS SHALL COMPLY WITH ANSI/BHMA A156.16, GRADE 1.
   - 5.• ALL KICK PLATES SHALL BE 10" TALL UNLESS OTHERWISE NOTED.
6. DOOR SPECIFICATIONS:
   - 6.• SPECIFIED TOP AND BOTTOM BOLTS AND PANIC RELEASE LATCH SHALL BE INSTALLED ON INACTIVE DOOR LEAF ONLY.
7. RELOCATE EXISTING CARD READER FROM DOOR 1016a TO DOOR 1016c
8. SEE DOOR SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. GC SHALL VERIFY ALL EXISTING CONDITIONS AND CONFIRM WORKING ORDER. GC SHALL NOTIFY ARCHITECT IF EXISTING CONDITIONS DIFFER FROM THAT IDENTIFIED WITH IN DOOR SCHEDULE.

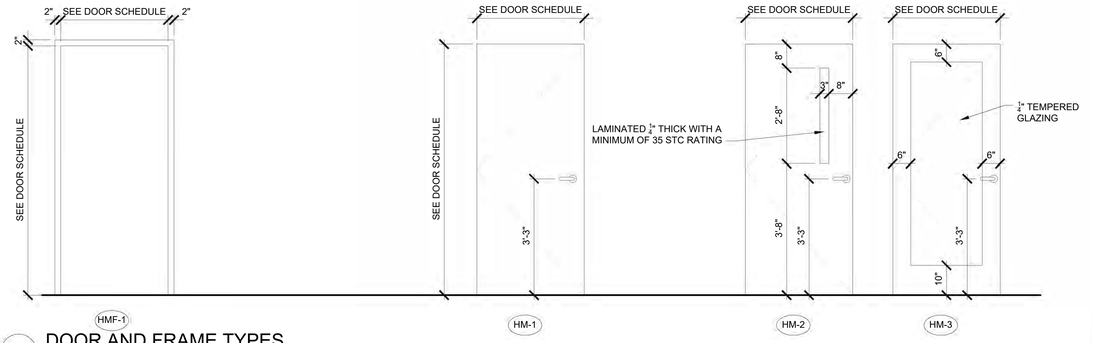
DOOR SCHEDULE

DOOR ID	ROOM NAME	DOOR: DOOR MATERIAL- TYPE (SEE DOOR ELEVATIONS)	DOOR: DOOR SIZE (WxH)	FRAME: FRAME MATERIAL- TYPE (SEE FRAME ELEVATION)	FRAME: DETAIL NUMBER: HEAD DETAIL	JAMB DETAIL	SADDLE DETAIL	FIRE RATING: SIXTY MINUTES	FORTY FIVE MINUTES	TWENTY MINUTES	NOT REQUIRED	HARDWARE-SEE SPECIFICATIONS: FIRECODE REQ.: PANIC RELEASE LATCH	POSITIVE LATCHING	AUTOMATIC CLOSER	DELAYED ACTION CLOSER	DISABLED REQ.: 180° SWING	LEVER HANDLES	TACTILE WARNING	ACCESSIBLE THRESHOLD	KICK PLATE	PUSH PLATES	LOCKSET: PRIVACY	PASSAGE	CLASSROOM	OFFICE	STORAGE	ENTRY	MISC. HARDWARE: VERTICAL RODS	PULLS	FULL PERIMETER WEATHERSTRIPPING	TOP AND BOTTOM BOLTS	STRIKE	SILENCERS	BUTTS	METAL PROTECTIVE TRIM PLATE	WALL MOUNTED DOOR STOP	HOLD OPEN	CARD READER	HANDICAP ASSISTED OPEN	REMARKS
	FIRST FLOOR																																									
1016a	VESTIBULE A	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	○				○	○	○			○													●	○	○	○	○		○	○			GC TO VERIFY ALL EXISTING HARDWARE
1016b	PERCEPTION LAB	HM-2	3'-0" x 7'-0"	HMF-1	H1/A501	J1-J2/A501	--				●	●	●	●			●						●							●			●	3	1.5		●				
1016c	VESTIBULE B	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	○				○	○	○			○								○					●	○	○	○		○	○		○	○	⊕		GC TO VERIFY ALL EXISTING HARDWARE
1016d	VESTIBULE B	HM-2	3'-0" x 7'-0" (2)	HMF-1	H1/A501	J1-J2/A501	--				●	●	●	●			●								●					●	●	●	●	2	3		●				
1016e	GALLERY	HM-1	3'-0" x 7'-0" 2'-0" x 7'-0"	HMF-1	H1/A501	J1/A501	--				●		●				●								●						●	●	●	2	3		●	●			

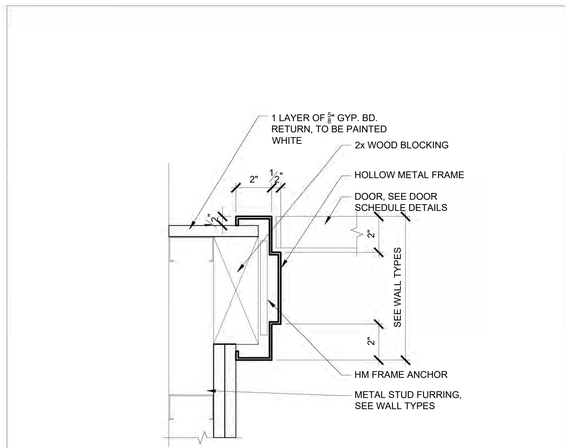
● INDICATES REQUIRED WORK

INDICATES EXISTING

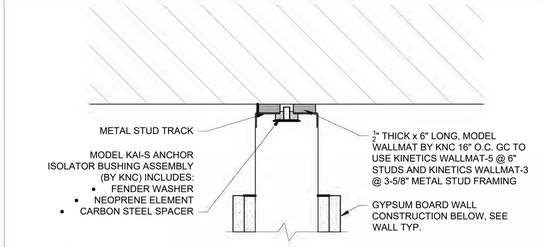
INDICATES REUSE RELOCATED EXISTING



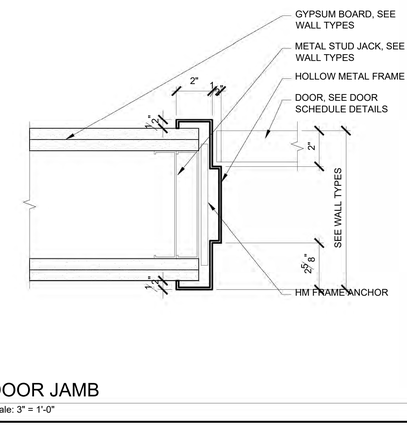
2 DOOR AND FRAME TYPES
Scale: 1" = 1'-0"



J2 DOOR JAMB
Scale: 3" = 1'-0"

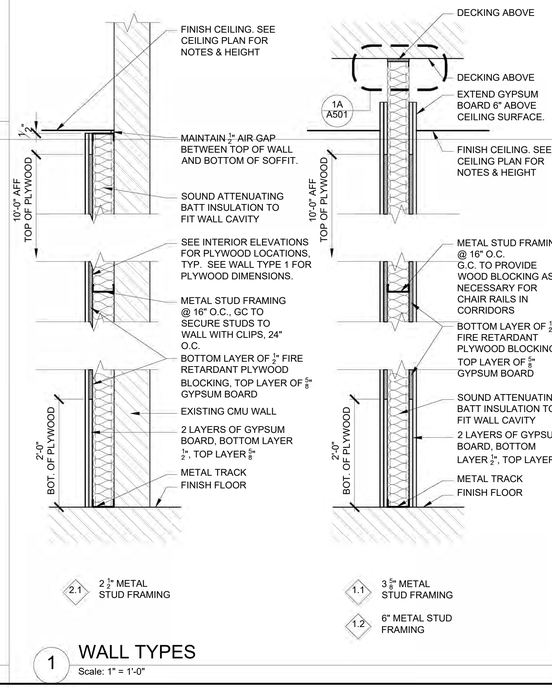


1A TOP WALL TRACK
Scale: 3" = 1'-0"



H1 DOOR HEAD
Scale: 1" = 1'-0"

J1 DOOR JAMB
Scale: 3" = 1'-0"



1 WALL TYPES
Scale: 1" = 1'-0"

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PROJECT
SUNY PURCHASE COLLEGE
VISUAL ARTS PERCEPTION LAB RENOVATION
735 ANDERSEN HILL RD
PURCHASE, NY 10577

REVISIONS

REV	DATE	DESCRIPTION / COMMENTS

SEAL

ISSUED FOR: BID

ISSUED DATE: 2.3.2020

DRAWN BY: JW

CHECKED BY: CM

PROJECT NUMBER: 1418283

DRAWING NAME
WALL TYPES/DOOR DETAILS/ DOOR SCHEDULE

DRAWING NO.
A501

HINGES

A. Hinges: BHMA A156.1. Provide template-produced hinges for hinges installed on hollow-metal frames.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. Hager Companies.
   b. McKinney Products Company; an ASSA ABLOY Group company.
   c. Stanley Commercial Hardware.
   d. Approved Equivalent

2. Mounting: Full mortise (butts).

BHMA A156.1 defines antifriction bearing as having a bearing material between various moving parts of a hinge. Manufacturers use various antifriction bearing materials including ball bearings, oil-impregnated bearings, and nylon. NFPA 80 requires antifriction bearing surfaces that comply with BHMA A156.1 for hinges used on fire-rated door assemblies.

3. Bearing Material: Ball bearing.
4. Grade: Grade 1 (heavy weight).
5. Base and Pin Metal:
   a. Exterior Hinges: Stainless steel with stainless-steel pin.
   b. Interior Hinges: Steel with steel pin.
   c. Hinges for Fire-Rated Assemblies: Steel with steel pin.
6. Pins: Non-rising loose, unless otherwise indicated.

Retain one or both of first two subparagraphs below with first option in subparagraph above.

   a. Outswinging Exterior Doors: Nonremovable.
   b. Outswinging Corridor Doors with Locks: Nonremovable.

7. Tips: Flat button.
8. Corners: Square.

Reverse safety studs and safety studs are only available on full-mortise hinges.

Delete paragraph and subparagraphs below if only continuous geared hinges are required or if quantity is included in door hardware sets.

Insert sizes, including hinge height and metal thickness, only if they are not included in door hardware sets.

Delete first paragraph and subparagraphs below if requirements are indicated in door hardware sets.

Delete first paragraph and subparagraphs below if not required. Electrified functions are available only for full-mortise, pivot-reinforced, and pivot hinges and for continuous geared hinges.

B. Fasteners: Comply with the following:
1. Machine Screws: For metal doors and frames. Install into drilled and tapped holes.

MECHANICAL LOCKS AND LATCHES

A. Mortise Locks: Stamped steel case with steel or brass parts; BHMA A156.13, Grade 1, Series 1000, heavy-duty.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. Best Access Systems, Div. of The Stanley Works; Series 45H.
   b. Corbin Russwin Architectural Hardware, an ASSA ABLOY Group company; Series ML2000.
   c. SARGENT Manufacturing Company, an ASSA ABLOY Group company; Series 8200.
   d. Schlage Commercial Lock Division, an Allegion Company; Series L.
   e. Approved Equivalent

B. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:

1. Mortise Locks: Minimum 3/4-inch latchbolt throw.

C. Lock Backset: 2-3/4 inches.

Generally retain first option in first paragraph below for private projects; retain third option for Federal, State, and local government projects. Second option is often referenced by building codes. Verify requirements with authorities having jurisdiction.

Revise first paragraph and subparagraphs below if more than one type of lock trim is needed.

D. Lock Trim:

Most levers in first subparagraph below are cast.

1. Levers: Solid brass, bronze or stainless steel; cast or forged and through-bolted with a 2-piece spindle.

   a. Provide tactile warning at hazardous locations.

2. Escutcheons (Roses): Wrought.
3. Dummy Trim: Match lever lock trim and escutcheons.

Retain first option in subparagraph below if BHMA standards are used to specify door hardware and lock design is indicated on Drawings.

4. Lockset Designs: Provide design indicated or, if sets are provided by another manufacturer, provide designs that match those designated.

E. Strikes: Manufacturer's standard strike with strike box for each latchbolt or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, and as follows:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.

Delete subparagraphs below not required.

2. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
3. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
4. Aluminum-Frame Strike Box: Manufacturer's special strike box fabricated for aluminum framing.
5. Rabbet Front and Strike: Provide on locksets for rabbeted meeting stiles.

F. Electrified Mortice Lock Set (as scheduled): Types and functions indicated as follows:

Select required functions from subparagraphs and associated subparagraphs below. Verify availability of products with manufacturers selected.

1. Request-for-Exit Function: Signal initiated when push bar is actuated.
2. Electric Latch Retraction: Remote signal activates continuous-duty solenoid that retracts latch.
3. Power supplies: Furnished by Door Hardware supplier; installed by the Security Contractor.
4. Harness connector per Security Contractors requirements.
5. Configured for fail secure operation.

AUTOMATIC AND SELF-LATCHING FLUSH BOLTS

A. Automatic and Self-Latching Flush Bolts: BHMA A156.16; minimum 3/4-inch throw; designed for mortising into door edge.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. Glynn-Johnson.
   b. Hager Companies.
   c. IVES Hardware.
   d. Trimco.
   e. Approved Equivalent

B. Automatic Flush Bolts: Grade 1, fabricated from steel and brass components, with spring-activated bolts that automatically retract when active leaf is opened and that automatically engage when active door depresses bolt trigger; listed and labeled for fire-rated doors. Provide brass or stainless-steel cover plate, top and bottom dustproof strikes, guides, guide supports, wear plates, and shims.

C. Dustproof Strikes: Locking type, Grade 1, polished wrought brass, with 3/4-inch- diameter, spring-tension plunger.

EXIT DEVICES AND AUXILIARY ITEMS

A. Exit Devices and Auxiliary Items: BHMA A156.3.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. Corbin Russwin Architectural Hardware; an ASSA ABLOY Group company; 5000 Series.
   b. Precision Hardware, Inc.; 1100/D-1200 Series.
   c. SARGENT Manufacturing Company; an ASSA ABLOY Group company; 80 Series.
   d. Von Duprin; an Allegion Company; 98/99 Series.
   e. Approved Equivalent

Generally retain first option in first paragraph below for private projects; retain third option for Federal, State, and local government projects. Second option is often referenced by building codes. Verify requirements with authorities having jurisdiction.

Retain one of two paragraphs below, or both. Only fire exit devices may be used for fire doors. NFPA 80 distinguishes between panic exit hardware and fire exit hardware. See the Evaluations in Division 8 Section "Door Hardware."

B. Panic Exit Devices: Listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305.

UL test in paragraph below includes operational test of 100,000 cycles. BHMA A156.3 requires 250,000 cycles for Grade 1 and 100,000 cycles for Grade 2.

C. Fire Exit Devices: Devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252.

Delete first paragraph below if removable mullions are specified with door frames in other Division 8 Sections.

Retain paragraph and subparagraph below if exit device levers, knobs, and pulls are required to match lockset and latchset designs. Matching locksets to exit device trim and levers limits the design options available; coordinate with lock design selected in "Locks and Latches, General" Article.

D. Outside Trim: Lever with cylinder; material, design and finish to match locksets, unless otherwise indicated.

1. Provide forged or cast escutcheon plates.
2. Provide knurled outside lever where scheduled.

Retain paragraph below if physical abuse is a design consideration.

Coordinate paragraph and list below with Part 2 "Scheduled Door Hardware" Article. Retain "Available" for nonproprietary and delete for semiproprietary specifications.

E. Provide the following types of exit devices as scheduled:

1. Rim Exit Devices:
   a. Type: BHMA A156.3, Type 1, rim.
   b. Actuating Bar: Push pad.
   c. Material: Brass, Bronze, Stainless steel or Aluminum.

2. Push Pad: Extend push pad a minimum of one-half of the door width. Provide flush mounted end cap with two-point attachment to the door.
3. Provide the following for each device:

   a. Nylon bearings and stainless steel springs.
   b. Security dead latching feature.
   c. Spacers as required for flush mounting of mechanism case.
   d. Glass bead kits for mounting of hardware on glass doors.

4. Provide all non-fire-rated exit devices with cylinder dogging, except at locations indicated with electric latch retraction or request-for-exit function.

F. Electrified Exit Device Options (as scheduled): Types and functions indicated as follows:

Select required functions from subparagraphs and associated subparagraphs below. Verify availability of products with manufacturers selected.

1. Request-for-Exit Function: Signal initiated when push bar is actuated.
2. Electric Latch Retraction: Remote signal activates continuous-duty solenoid that retracts latch.
3. Power supplies: Furnished by Door Hardware supplier; installed by the Security Contractor.
4. Harness connector per Security Contractors requirements.
5. Configured for fail secure operation.

LOCK CYLINDERS

A. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver.

1. All locksets and cylinders shall be keyed into the existing Campus Master Key System for this project. Allow for 100% expansion. For the protection of the Campus, all cylinders shall be keyed at the factory where permanent records shall be established and maintained.
2. Manufacturers: Subject to compliance with requirements provided products by one of the following.

   a. Best Core
   b. Approved Equal.
   c. Approved Equivalent

Revise first paragraph below to specify manufacturers' proprietary cylinder systems.

B. Cylinders: BHMA A156.5, Grade 1, manufacturer's standard tumbler type, constructed from brass, or bronze, stainless steel, or nickel silver, complying with the following:

1. Number of Pins: Seven (7) combination.
2. Bored-Lock Type: Cylinders with tailpieces to suit locks.

   a. High-Security Grade: BHMA A156.5, Grade 1A, listed and labeled as complying with pick- and drill-resistant testing requirements in UL-437 (SuffixA).

3. Proprietary product to match Campus standard as follows:

   a. Best Access Systems; Premium Series. (no substitution).

Select applicable types from three subparagraphs below.

Retain one of two subparagraphs below. Second describes tumbler proprietary to cylinder manufacturer.

C. Construction Keying: During construction, all new locksets shall be construction master keyed. Provide temporary construction cores. The Contractor shall receive ten (10) construction master keys. Under no circumstance shall the Contractor receive any permanent building master keys or change keys unless authorized by the Campus Representative.

1. All construction cores will be returned to General Contractor once Campus has received and installed final cores.

D. Permanent Cores: All permanent cores and keys shall be requested directly by the Campus to the manufacturer. The Contractor shall be responsible for all payments to the manufacturer and shall supply the Campus with all necessary information (account number, etc.), in order for the Campus to order final cores and keys.

KEYING

A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, Appendix A. Incorporate decisions made in keying conference, and as follows:

1. Master Key System: Cylinders are operated by a change key and a master key.
2. Existing System: Re-key Campus' existing master key system into new keying system.
3. Keyed Alike: Key all cylinders to same change key.
4. All master keys shall be identified with a registry number, and shall **not** be stamped with MASTER or letter M.

Retain subparagraph below if required.

B. Keys: Nickel silver.

Delete first subparagraph and associated subparagraph below if key does not require special marking.

1. Quantity: In addition to two extra key blanks for each lock, provide the following:

Retain subparagraphs below that correspond to type of keying system selected above.

   a. Cylinder Change Keys: Three.
   b. Master Keys: Two.

2. All keying shall be thoroughly checked with the Campus Representative. Final keying requirements shall be submitted in writing, for final approval by the Campus Representative.

ACCESSORIES FOR PAIRS OF DOORS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Hager Companies.
2. National Guard Products.
3. Pemko Manufacturing Co.
4. Reese Enterprises.
5. Approved Equivalent

B. Coordinators: BHMA A156.3; consisting of active-leaf, hold-open lever and inactive-leaf release trigger; fabricated from steel with nylon-coated strike plates; with built-in, adjustable safety release; and with internal override.

C. Flat Overlapping Astragals: BHMA A156.22; flat zinc-plated steel metal bar, surface mounted on face of door with screws; minimum 1/8 inch thick by 2 inches wide by full height of door.

To prevent damage to astragal, retain paragraph and subparagraph below to push active leaf open when inactive leaf is opened first.

Astragals in three paragraphs below are mounted on one leaf of a pair of doors to protect against weather and to minimize passage of smoke, flame, and gases during a fire. NFPA 80 requires overlapping type for doors rated more than 1-1/2 hours. Astragals required for door listings are specified with doors in other Division 8 Sections. Only astragals controlling light and sound are included below.

SURFACE CLOSERS

A. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. LCN Closers; an Allegion Company; 4000 Series.
   b. Norton Door Controls; an ASSA ABLOY Group company; PR7500/PR7700.
   c. SARGENT Manufacturing Company; an ASSA ABLOY Group company; 351 Series.
   d. Approved Equivalent

B. Surface Closer with Cover: Grade 1; Modern Type with mechanism enclosed in cover.
1. Mounting: Parallel arm, unless otherwise indicated.
2. Type: Regular arm, heavy-duty.

   a. Provide delayed action closing where indicated.

If retaining delayed action closing in subparagraph above, delete adjustable backcheck in subparagraph below.

3. Backcheck: Adjustable, effective between 60 and 85 degrees of door opening.

   a. Where indicated, closer must operate at 180 degree opening.

4. Provide all drop plate brackets, shims and angle brackets as required to complete installation of closers on doors and frames.

OVERHEAD STOPS AND HOLDERS

A. Wall- and Floor-Mounted Stops: BHMA A156.16; polished cast brass, bronze, or aluminum base metal.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. Burns Manufacturing Incorporated.
   b. Glynn-Johnson.
   c. Hager Companies.
   d. IVES Hardware.
   e. Rockwood Manufacturing Company.
   f. Trimco.
   g. Approved Equivalent

2. Provide wall stops for doors unless floor or other type stops are scheduled or indicated. Do not mount floor stops where they will impede traffic. Where floor or wall stops are not appropriate, provide overhead holders.

B. Wall Bumpers: Grade 1; with rubber bumper; 2-1/2-inch diameter, minimum 3/4-inch projection from wall; with backplate for concealed fastener installation; with concave bumper configuration.

DOOR GASKETING

A. Door Gasketing: BHMA A156.22; air leakage not to exceed 0.50 cfm per foot of crack length for gasketing other than for smoke control, as tested according to ASTM E 283; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.

1. Manufacturers: Basis of design is as follows:

   a. Zero International - Automatic drop bottom gasket (fully mortised) Zero International 369AA
   b. Zero International - Jamb Applied adjustable sealing system Zero International 7770aa
   c. Zero International - Astragal Seal - Two Active Leafs Zero International 55AA + 555AA
   d. Approved Equivalent

AUXILIARY DOOR HARDWARE

A. Silencers for Metal Door Frames: Grade 1; neoprene or rubber; minimum diameter 1/2 inch; fabricated for drilled-in application to frame.

B. Door closer mounting bracket: Basis of design, Zero International 770SPB

C. Approved Equivalent

AUXILIARY ELECTRIFIED DOOR HARDWARE

A. Boxed Power Supplies: Modular unit in NEMA ICS 6, Type 4 enclosure; filtered and regulated; voltage rating and type matching requirements of door hardware served; and listed and labeled for use with fire alarm systems.

B. Door and Frame Transfer Devices: Steel housing for mortise in hinge stile of door, with flexible tube for wiring bundle; accommodating doors that swing open to 120 degrees.

NOTE:
PROVIDE ALL MANUFACTURES NOTED OR APPROVED EQUAL.

ARCHITECT

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PHONE: (860) 966-7350

PROJECT

SUNY PURCHASE COLLEGE
VISUAL ARTS PERCEPTION LAB RENOVATION
735 ANDERSEN HILL RD
PURCHASE, NY 10577

REVISIONS

REV	DATE	DESCRIPTION / COMMENTS

SEAL

ISSUED FOR: BID

ISSUED DATE: 2.3.2020

DRAWN BY: JW

CHECKED BY: CM

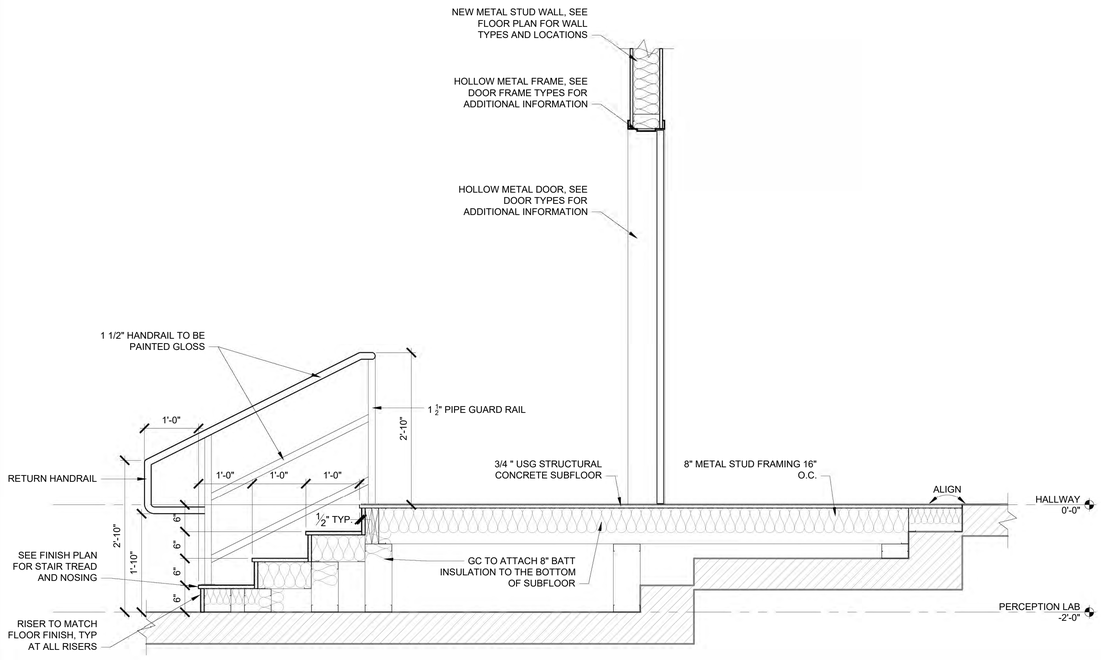
PROJECT NUMBER: 1418283

DRAWING NAME

DOOR SPECIFICATIONS

DRAWING NO.

A502



3 SECTION AT RAMP LANDING

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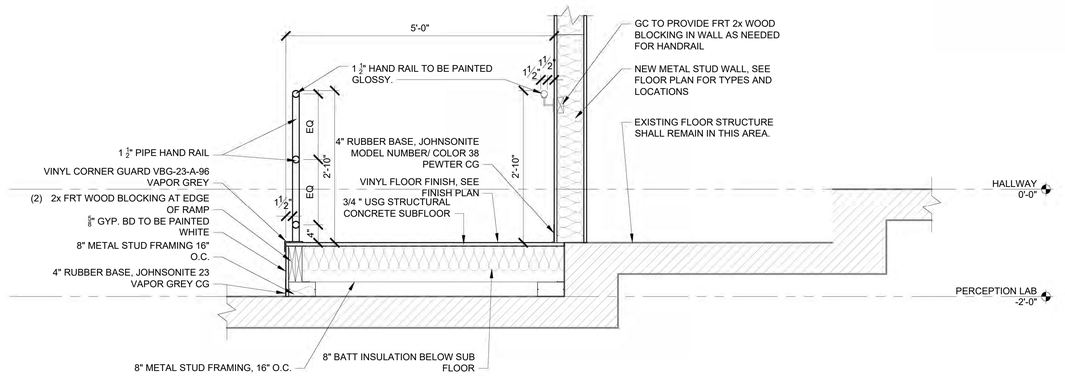

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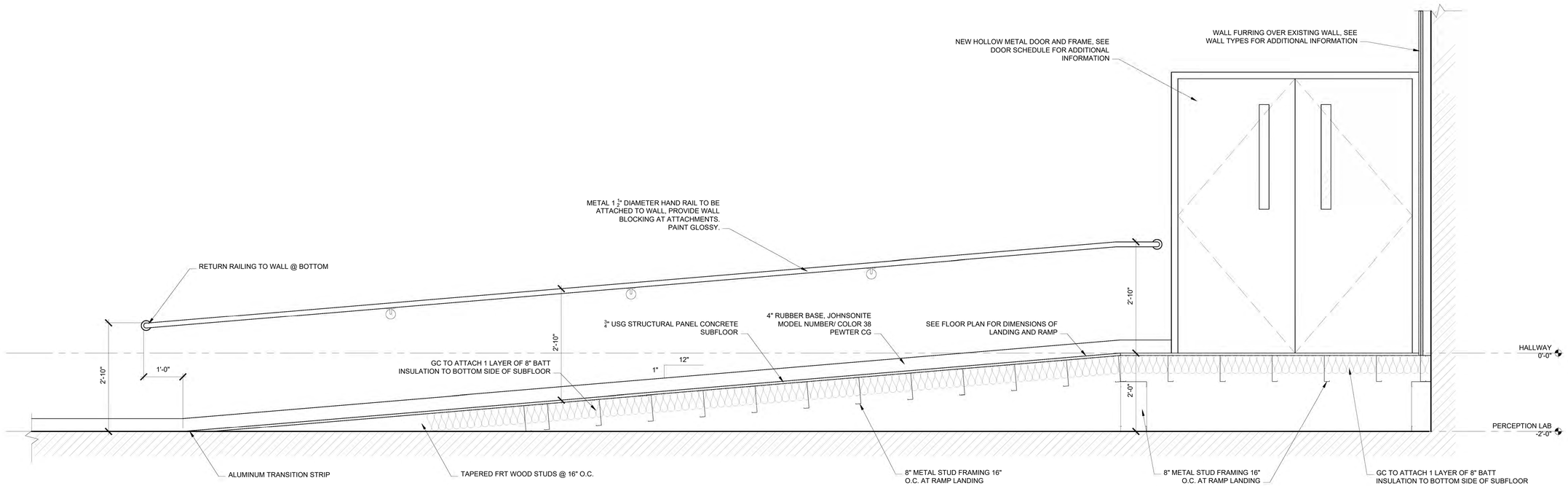

1 SECTION AT RAMP

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

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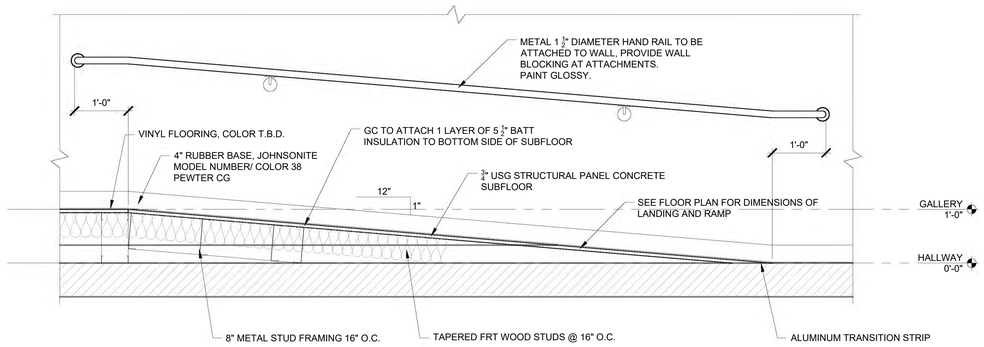
DRAWN BY: JW

CHECKED BY: CM

PROJECT NUMBER: 1418283

DRAWING NAME
RAMP DETAILS

DRAWING NO.
A601



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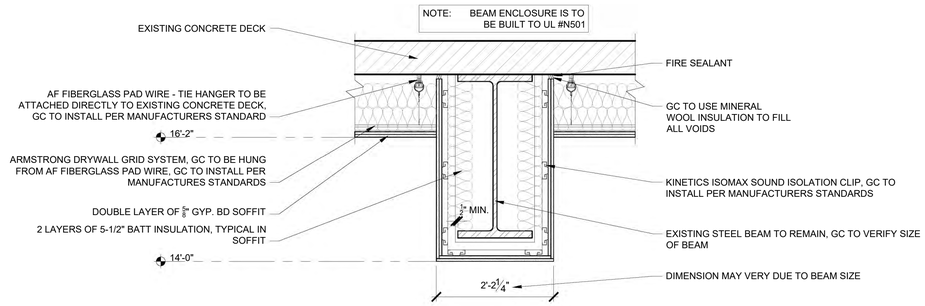
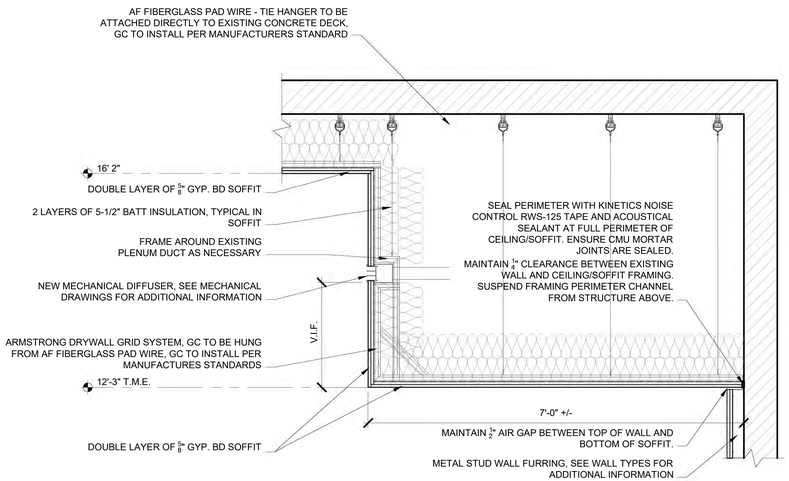


3 SECTION @ RATED SOFFIT
Scale: 3/4" = 1'-0"



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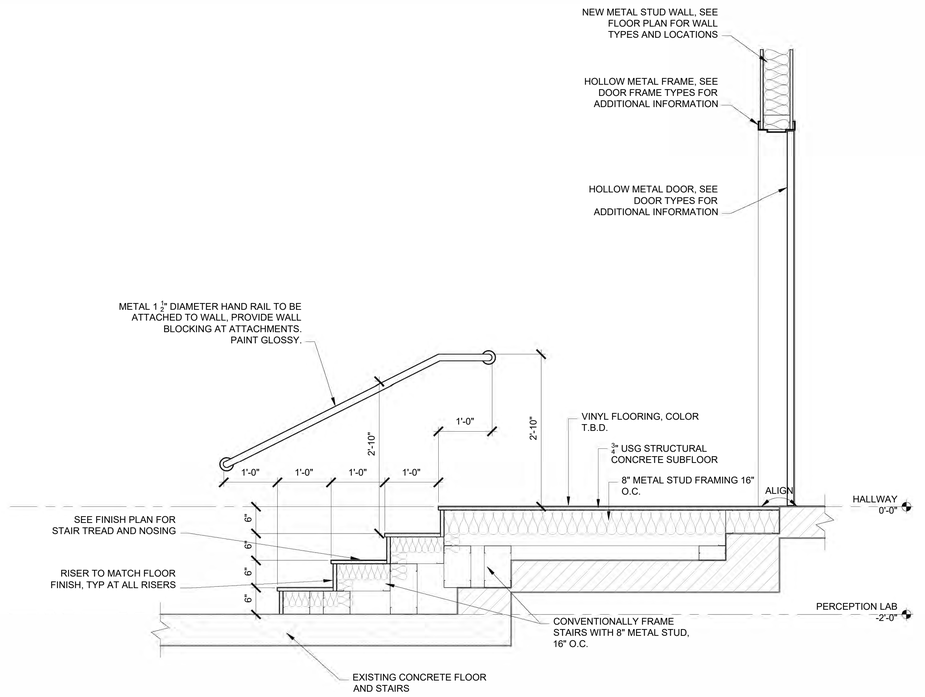

1 SECTION AT STAIRS
Scale: 3/4" = 1'-0"

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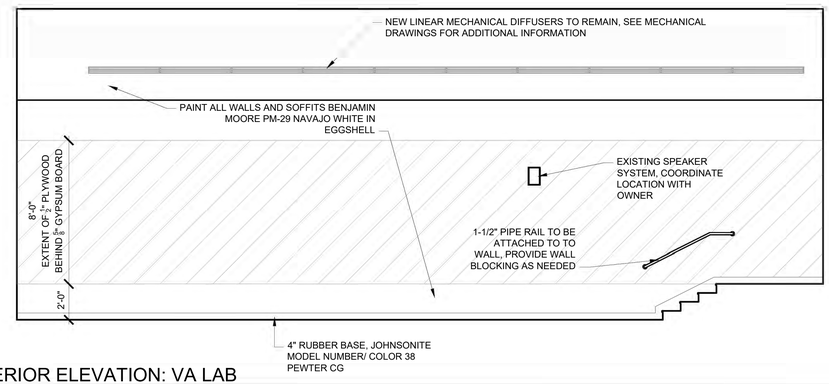
CHECKED BY: CM
PROJECT NUMBER: 1418283

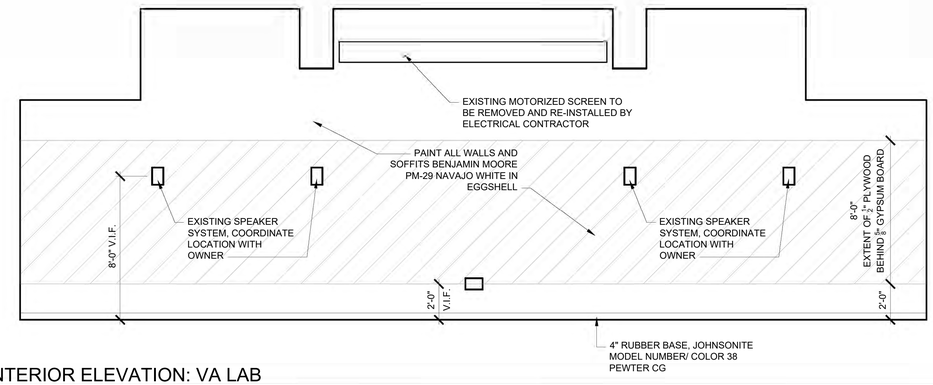
DRAWING NAME
RAMP / STAIR / SOFFIT DETAILS

DRAWING NO.
A602

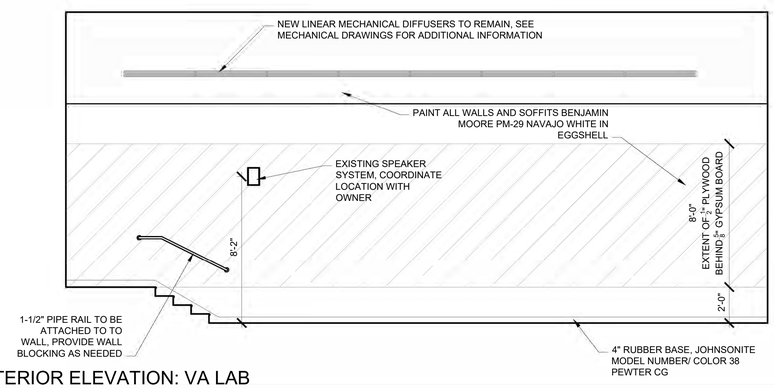
NOTE:
HATCH AREA INDICATES LOCATION OF
PLYWOOD, 2'-0" A.F.F. TO 10'-0" A.F.F.



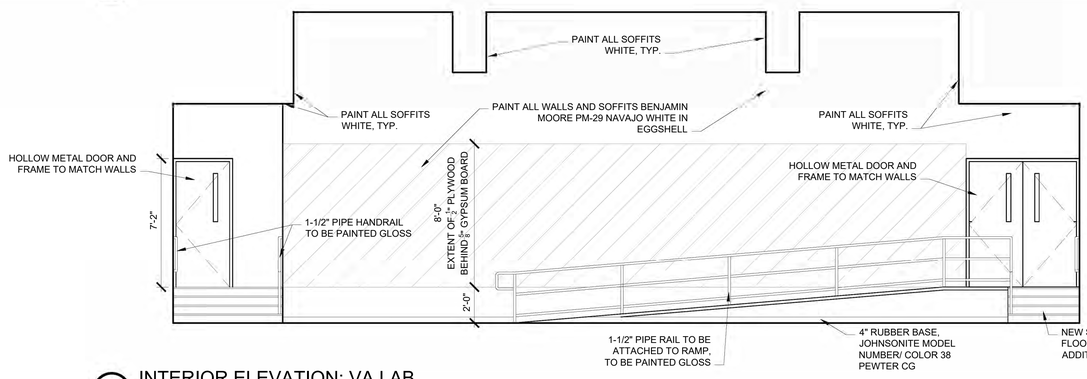
4 INTERIOR ELEVATION: VA LAB
Scale: 1/4" = 1'-0"



3 INTERIOR ELEVATION: VA LAB
Scale: 1/4" = 1'-0"



2 INTERIOR ELEVATION: VA LAB
Scale: 1/4" = 1'-0"



1 INTERIOR ELEVATION: VA LAB
Scale: 1/4" = 1'-0"

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CHECKED BY: CM
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DRAWING NAME
INTERIOR ELEVATIONS

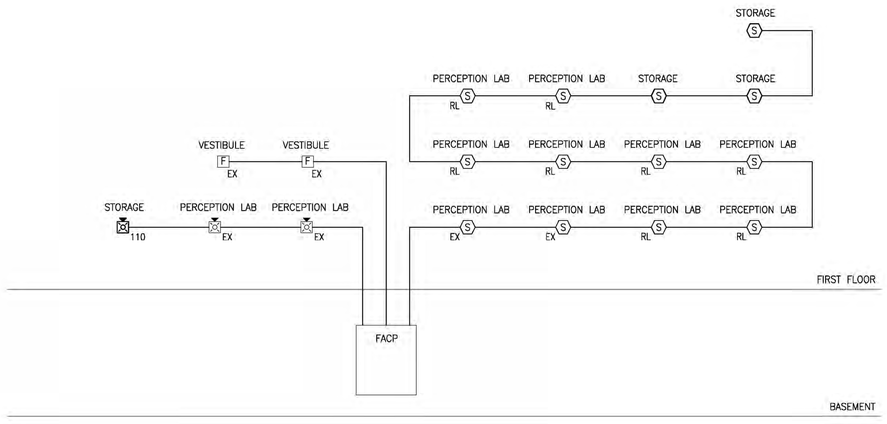
DRAWING NO.
A701

FIRE ALARM GENERAL NOTES

1. ALL WIRING, POWER, CONDUCTORS, CONDUITS ETC. SHALL MEET THE 2014 NYS ELECTRICAL CODE, AND THE 2016 INTERNATIONAL BUILDING CODE, AS MODIFIED BY 2017 NEW YORK STATE CODE SUPPLEMENT.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE STATE BUILDING CODE AND IN ACCORDANCE WITH 2013 NFPA 72.
3. ALL FIRE ALARM CIRCUITS SHALL BE SIZED TO A MAXIMUM OF 80% OF CAPACITY.
4. ALL FIRE ALARM CIRCUITS SHALL BE WIRED TO MATCH EXISTING WITH THE EXCEPTION OF THE NETWORK CIRCUIT WHICH SHALL BE NFPA STYLE 7 (CLASS A WITH ISOLATION). ALL AUDIBLE AND VISUAL CIRCUITS SHALL MATCH EXISTING.
5. CONDUITS MAY NOT ENTER THE TOP OF ANY FIRE ALARM EQUIPMENT CABINET.
6. ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED WITH AESTHETICS IN MIND.
7. ALL FIRE ALARM JUNCTION BOXES SHALL BE PAINTED FIRE DEPARTMENT RED.
8. ALL FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES. ALL TERMINALS SHALL BE NUMBERED AND LABELED. ALL CONNECTIONS SHALL BE EITHER SOLDERED, APPROVED TERMINAL STRIPS OR SCOTCH LOCKS.
9. ALL LOW VOLTAGE FIRE ALARM CONDUCTORS SHALL BE PROTECTED BY EITHER BUILDING CONSTRUCTION OR CONDUIT TO 7 FEET ABOVE THE FINISHED FLOOR. ELECTRICAL ROOMS AND OTHER LOCATIONS SUBJECT TO MECHANICAL DAMAGE SHALL BE IN FULL RIGID CONDUIT.
10. FIRE ALARM CABLES SHALL NOT BE MIXED WITH NON FIRE ALARM CABLING. LOW VOLTAGE FIRE ALARM CABLING SHALL NOT BE MIXED OR WIRED NEAR ANY AC CIRCUIT.
11. ALL NOTIFICATION CIRCUITS SHALL BE A MINIMUM OF 14 AWG AND ALL OTHER LOW VOLTAGE FIRE ALARM CIRCUITS SHALL BE 16 AWG MINIMUM.
12. POLARITY SHALL BE OBSERVED ON ALL CIRCUITS. T-TAPPING SHALL NOT BE ALLOWED ON ANY NOTIFICATION CIRCUITS (HORN, STROBE OR SPEAKER). T-TAPPING SHALL NOT BE PERMITTED ON ADDRESSABLE CIRCUITS WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER.
13. ALL WIRING SHALL BE INSPECTED TO ASSURE THERE ARE NO OPENS, SHORTS OR EARTH GROUNDS.
14. SHIELDED CONDUCTORS OR RUNNING IN SEPARATE RACEWAY SHALL BE AS INSTRUCTED BY THE FIRE ALARM MANUFACTURER'S DOCUMENTATION. ALL NON-POWER LIMITED WIRING, INCLUDING CIRCUITS FOR CENTRALIZED AMPLIFIERS SHALL BE RUN IN A SEPARATE RACEWAY (NOTE: CENTRALIZED AMPLIFIERS "AMP RACKS" ARE NOT PERMITTED ON NEW SYSTEMS).
15. A CENTRAL STATION DIALER AND TWO DEDICATED PHONE LINES SHALL BE PROVIDED.
16. ALL AREA SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC TYPE.
17. SMOKE DETECTORS MUST BE MOUNTED AT LEAST 3 FT AWAY FROM ANY AIR REGISTER.
18. ALL CEILING MOUNT DEVICES MUST BE SECURELY FASTENED TO BUILDING CONSTRUCTION.
19. DEVICE LOCATIONS MUST BE READILY ACCESSIBLE TO ALLOW FOR MAINTENANCE AND REPAIR.
20. DUCT MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON THE DUCTWORK IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
21. MANUAL STATIONS SHALL BE MOUNTED 48 INCHES ABOVE THE FINISHED FLOOR TO THE HANDLE OF THE STATION AND SHALL BE PAINTED FIRE DEPARTMENT RED. ALL MANUAL STATIONS SHALL BE INSTALLED SO THAT THEY ARE KEPT UN-OBSTRUCTED AT ALL TIMES.
22. ALL STROBE LIGHTS SHALL BE UL-1971 APPROVED/LISTED. THE MINIMUM CANDELA IS 15 UNLESS OTHERWISE NOTED.
23. NOTIFICATION DEVICES THAT INCLUDE A STROBE SHALL BE MOUNTED 80 INCHES OFF THE FINISHED FLOOR TO THE BOTTOM OF THE STROBE, NOT NECESSARILY THE ELECTRICAL BOX.
24. LOCATIONS OF ALL FIRE ALARM EQUIPMENT SHALL BE SUBJECT TO LOCAL AUTHORITY APPROVAL. NO CHANGE OR MODIFICATION TO THE SYSTEM OR PLANS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. IF ANY CHANGES ARE MADE TO THE DRAWINGS PRIOR TO OR DURING INSTALLATION, AS BUILT PLANS SHALL BE PREPARED BY THE ENGINEER AND FILED WITH THE APPROPRIATE AGENCIES FOR FINAL ACCEPTANCE.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL ABANDONED FIRE ALARM CABINETS, DEVICES, AND WIRE. PAINT, PATCH AND CLEANUP SHALL ALSO BE INCLUDED.
26. CONTRACTOR SHALL WORK ON EXISTING CAMPUS FIRE ALARM SYSTEMS AS OUTLINED IN CAMPUS' "SPECIAL CONDITIONS FOR CONSTRUCTION" REQUIREMENTS.

FIRE ALARM SYMBOLS

F	MANUAL PULL STATION
S	AREA SMOKE DETECTOR, CEILING MOUNTED (SMOKE DETECTOR, SEMI-FLUSH MOUNTED IN CEILING)
	COMBINATION HORN/VISUAL ALARM; WALL MOUNTED
FACP	FIRE ALARM AND CONTROL PANEL
EXR	INDICATES EXISTING TO BE RELOCATED
RL	INDICATES RELOCATED



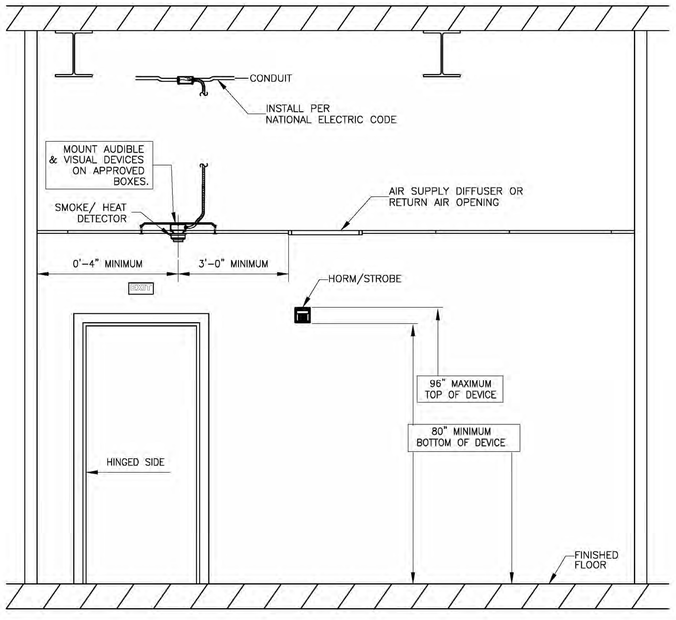
1 FIRE ALARM RISER DIAGRAM
SCALE: N/A

FIRE ALARM SYSTEM NOTES:

1. COORDINATE EXTENT OF WORK WITH FIRE ALARM VENDOR PRIOR TO COMMENCING WORK. FIRE ALARM VENDOR CONTACT INFO:
NAME: NICK DELFICO
COMPANY: RED HAWK FIRE AND SECURITY
PHONE: (914)-769-8900
2. PROVIDE ALL REQUIRED DEVICES/EQUIPMENT AND WIRING REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
3. ALL NEW COMPONENTS SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.
4. INCLUDE ALL FIRE ALARM VENDOR COSTS, INCLUDING RE-PROGRAMMING OF EXISTING FIRE ALARM SYSTEM AND UPDATING GRAPHICS AT HEAD END.
5. TEST SYSTEM TO ENSURE COMPLETE FUNCTIONALITY OF ALL NEW AND EXISTING EQUIPMENT AND DEVICES.
6. CONTRACTOR SHALL COORDINATE LOCATION OF EXISTING FACP LOCATION IN CELLAR FOR CONNECTION TO FIRE ALARM CONTROL SYSTEM.

		CONTROL UNIT ANNUNCIATION				NOTIFICATION				REQUIRED FIRE SAFETY CONTROL				
		ACTUATE COMMON ALARM SIGNAL	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	DISPLAY/PRINT CHANGE OF STATUS	TRANSMIT AUTOMATIC ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT MANUAL SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	RELEASE MAGNETICALLY HELD DOORS	CLOSE SMOKE/FIRE DAMPERS IN RATED WALLS	SHUT DOWN ALL FANS OVER 2000 CFM	CLOSE ASSOCIATED SMOKE DAMPER	
		A	B	C	D	E	F	G	H	I	J	K	L	
1	MANUAL FIRE ALARM BOXES	X	X			X		X		X				1
2	AREA SMOKE DETECTORS	X	X			X	X			X	X	X	X	2
3	OPEN CIRCUIT			X	X	X			X					3
4	GROUND FAULT			X	X	X			X					4
5	NOTIFICATION APPLIANCE CIRCUIT SHORT			X	X	X			X					5
		A	B	C	D	E	F	G	H	I	J	K	L	

2 SEQUENCE OF OPERATION MATRIX
SCALE: N/A



3 DEVICE MOUNTING DETAIL
SCALE: N/A

FIRE ALARM DRAWING LIST

FA-001	FIRE ALARM SYMBOLS LIST, GENERAL NOTES, MATRIX, MOUNTING HEIGHT DETAIL, RISER DIAGRAM AND DRAWING LIST
FAD-101	FIRE ALARM DEMOLITION PLAN
FA-101	FIRE ALARM CONSTRUCTION PLAN
FA-200	FIRE ALARM SPECIFICATIONS

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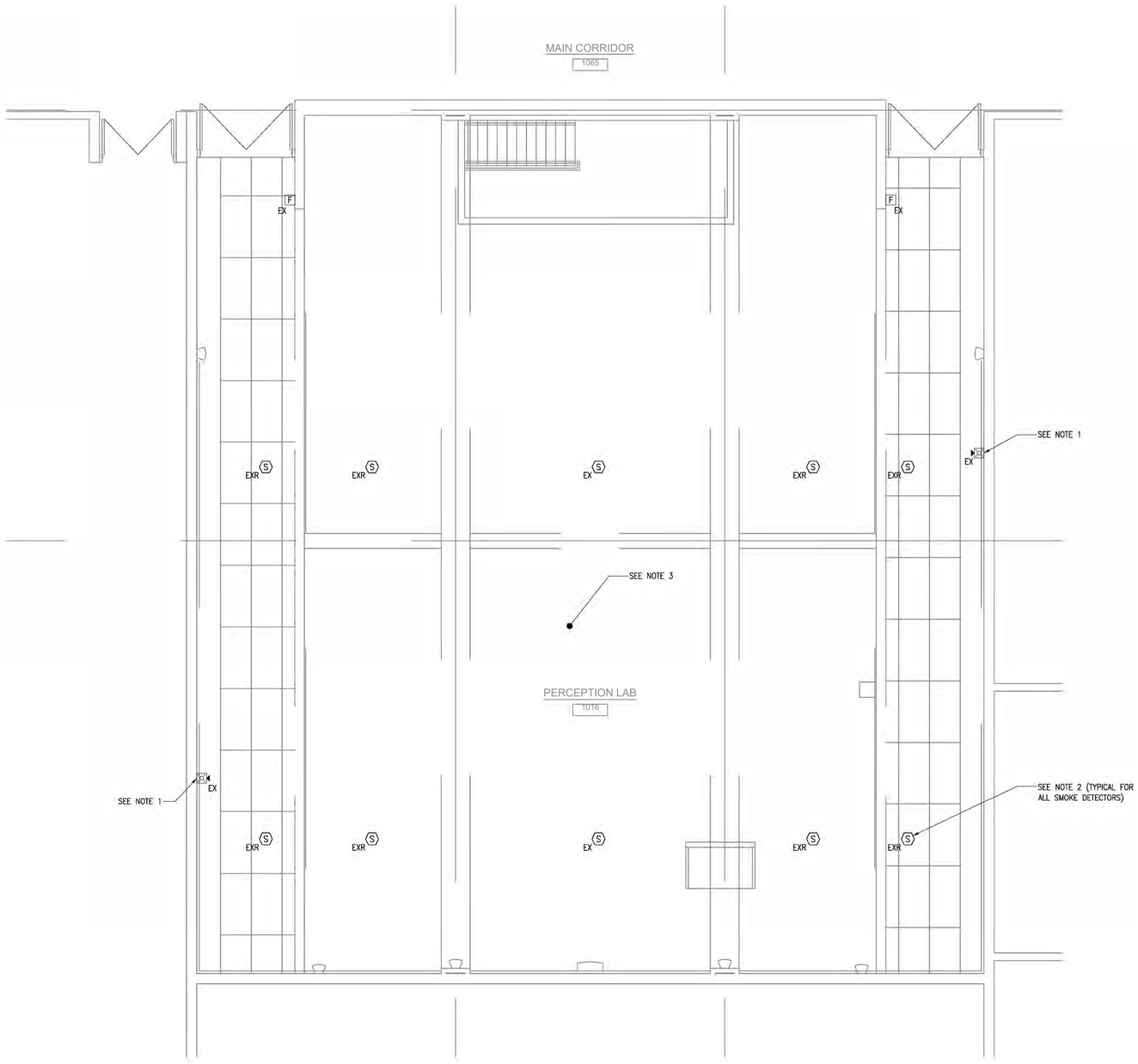
CHECKED BY: DC

PROJECT NUMBER: 20076
SU-021119

DRAWING NAME
FIRE ALARM SYMBOLS LIST, GENERAL NOTES, MOUNTING DETAIL, RISER DIAGRAM AND DRAWING LIST

DRAWING NO.
FA-001

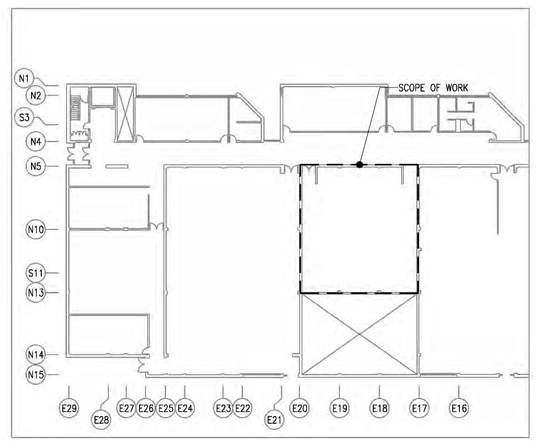


1 FIRE ALARM DEMOLITION PLAN

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

FIRE ALARM NOTES:

1. EXISTING SPEAKER STROBE TO REMAIN. PROVIDE EXTENSION BOX SO DEVICE RESTS FLUSH WITH NEW SHEETROCK WALL.
2. REMOVE ALL SMOKE DETECTORS DURING CONSTRUCTION TO ACCOMMODATE CEILING WORK. STORE SMOKE DETECTORS FOR RE-INSTALLATION.
3. ALL EXISTING FIRE ALARM CIRCUITS AND CONDUIT ARE SURFACE-MOUNTED AND SHALL BE REMOVED FROM CEILING TO ACCOMMODATE CEILING REMOVAL. CIRCUITS SHALL BE REMOVED TO NEAREST JUNCTION BOX OUTSIDE AREA OF WORK AND SHALL REMAIN FOR CONNECTING NEW DEVICES.



KEY PLAN

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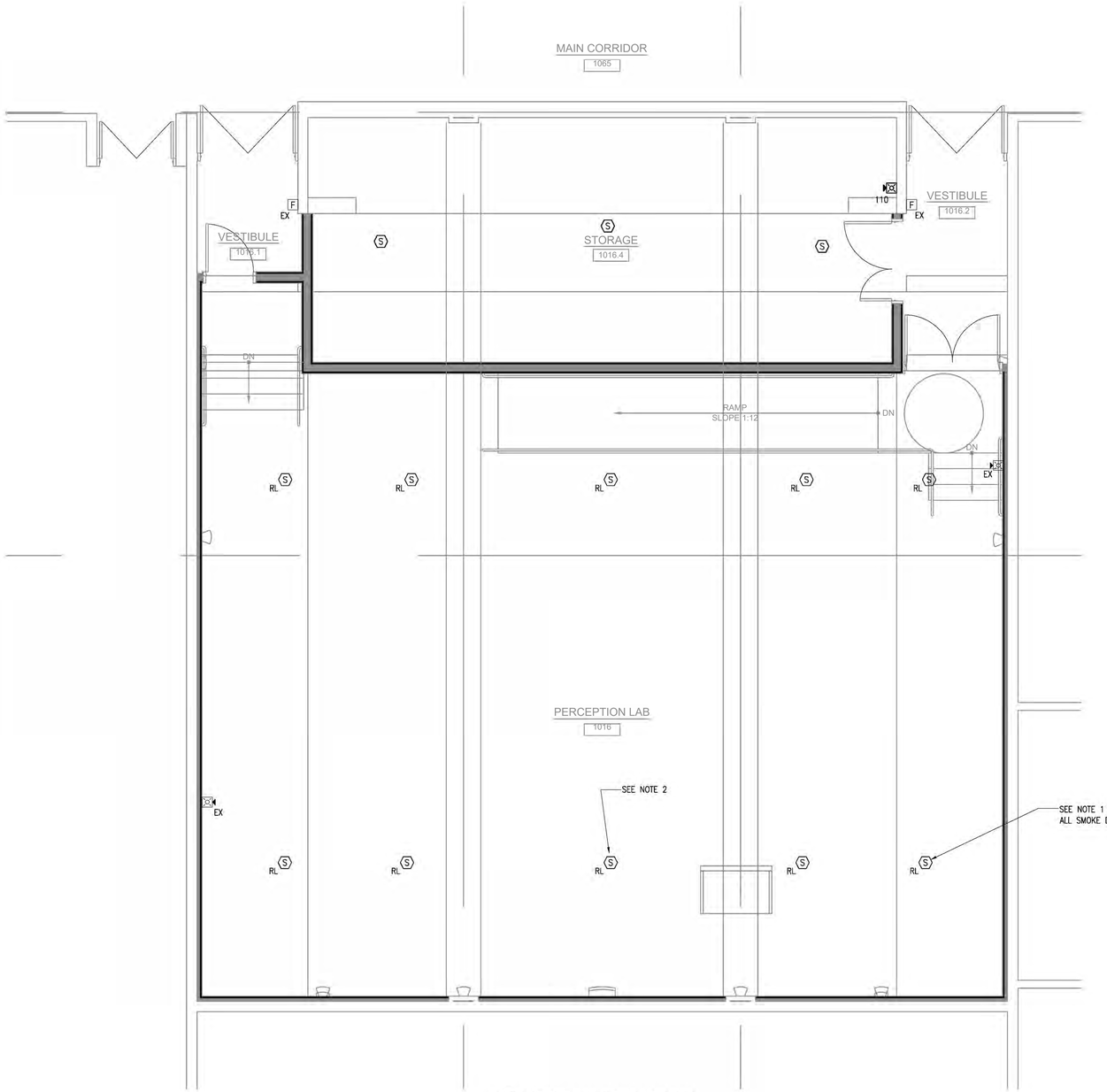
DRAWING NAME
FIRE ALARM DEMOLITION PLAN

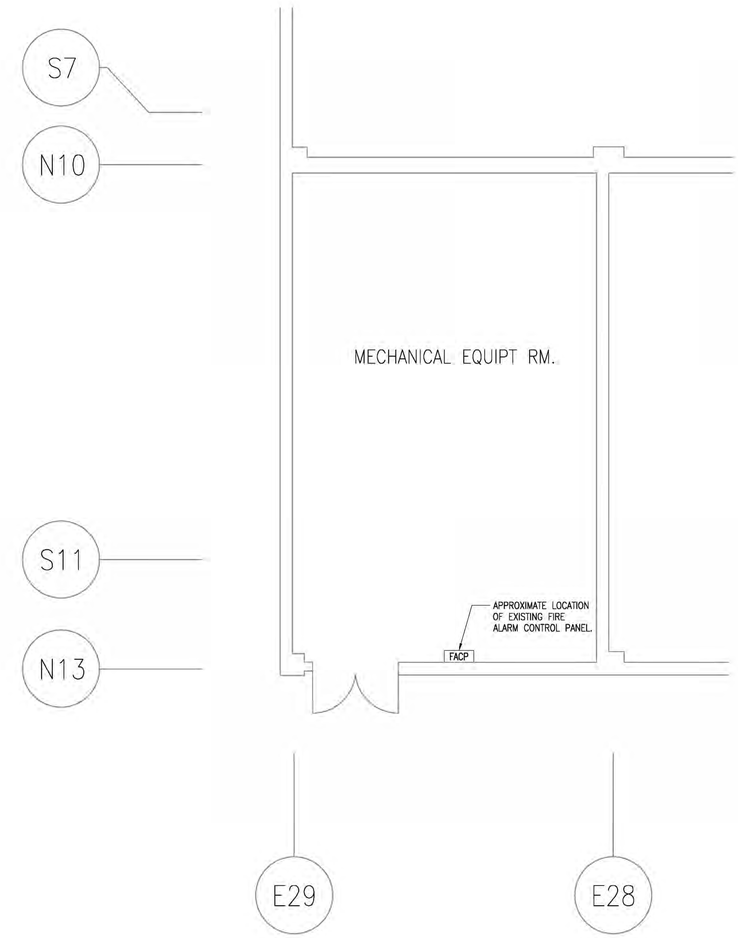
DRAWING NO.
FAD-101



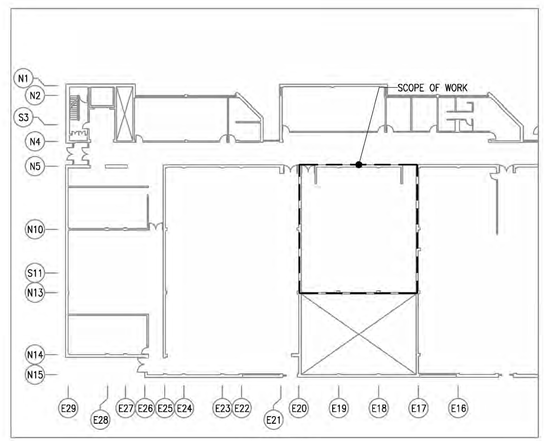
1 FIRE ALARM PLAN
SCALE: 1/4" = 1'-0"

FIRE ALARM NOTES:

1. CONDUITS SHALL BE CONCEALED WITHIN NEW GYPSUM BOARD AND HUNG CEILINGS.
2. FINAL LOCATIONS OF SMOKE DETECTORS TO BE DETERMINED IN THE FIELD, IN COORDINATION WITH OTHER CEILING ELEMENTS.



2 FIRE ALARM BASEMENT PART PLAN
SCALE: 1/4" = 1'-0"



KEY PLAN

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SU-021119

DRAWING NAME
FIRE ALARM PLAN

DRAWING NO.
FA-101

1. GENERAL:

A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE ARE PART OF THIS CONTRACT.
B. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
C. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
D. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK MAY BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES AND CHARGES IN MAKING UP THE WORK PROPOSAL.
E. CONNECTIONS TO EXISTING WORK: INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.
F. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW WORK.
G. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
H. SEAL OPENINGS THROUGH PARTITIONS, WALLS AND FLOORS WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL.
I. ALL EXISTING MATERIAL, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY THE SCHOOL. REMOVED EQUIPMENT SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.
J. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK DURING OVERTIME HOURS AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.
K. UNLESS OTHERWISE SPECIFICALLY NOTED OR SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
L. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
M. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO INDICATE ANY DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS PRIOR TO SUBMITTAL OF BID. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING CONDUIT (SIZES, CLEARANCES, ETC) AND CONDITIONS.
N. IT SHALL BE CONTRACTORS RESPONSIBILITY TO PAY FOR ALL COSTS ASSOCIATED WITH UPDATING GRAPHICS ON FIRE ALARM CONTROL PANEL TO REFLECT CHANGES TO THE FIRE ALARM SYSTEM.
O. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
P. THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.

2. SCOPE OF WORK:

A. THE WORK COVERED BY THIS SECTION OF THE SPECIFICATION SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND SERVICES TO MAKE MODIFICATIONS TO AN EXISTING FIRE ALARM SYSTEM OF THE ADDRESSABLE, NON-CODED TYPE. THE MODIFICATIONS TO THE EXISTING SYSTEM SHALL CONSIST OF, BUT NOT BE LIMITED TO, THE FOLLOWING:
   1) ADDRESSABLE MANUAL FIRE ALARM STATIONS.
   2) ADDRESSABLE ANALOG AREA SMOKE DETECTORS.
   3) AUDIBLE NOTIFICATION APPLIANCES – HORNS.
   4) VISUAL NOTIFICATION APPLIANCES – STROBES.
B. ALL DRAWINGS, PLANS, DETAILS, SPECIFICATIONS AND SPECIFICATION ADDENDA ARE MADE PART OF THIS CONTRACT AND SHALL APPLY TO ALL WORK UNDER THE CONTRACT UNLESS OTHERWISE AMENDED, MODIFIED, SUPPLEMENTED OR SPECIFIED HEREIN.
C. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OR ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.
D. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH ALL DEPARTMENTS HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.
E. THE CONTRACTOR SHALL COORDINATE WORK IN THIS SECTION WITH ALL RELATED TRADES.

3. APPLICABLE CODES AND STANDARDS

A. ALL EQUIPMENT SHALL BE UL LISTED FOR ITS INTENDED USE AND CONFORM TO THE LATEST UL STANDARDS.
B. UNDERWRITERS LABORATORIES INC.: THE SYSTEM AND ALL COMPONENTS SHALL BE LISTED BY UNDERWRITERS LABORATORIES INC. FOR USE IN FIRE PROTECTIVE SIGNALING SYSTEM UNDER THE FOLLOWING STANDARDS AS APPLICABLE:
   UL 864/UOJZ, APOU CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.
   UL 268 SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.
   UL 217 SMOKE DETECTORS SINGLE STATION.
   UL 464 AUDIBLE SIGNALING APPLIANCES.
   UL 1638 VISUAL SIGNALING APPLIANCES.
   UL 38 MANUALLY ACTIVATED SIGNALING BOXES.
   UL 1481 POWER SUPPLIES FOR FIRE PROTECTIVE SIGNALING SYSTEMS.
C. THIS INSTALLATION SHALL COMPLY WITH:
   1) AMERICANS WITH DISABILITIES ACT (ADA)
   2) NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS: NFPA72
   3) LOCAL AND STATE BUILDING CODES AND THE LOCAL AUTHORITIES HAVING JURISDICTION.
   4) INTERNATIONAL STANDARDS ORGANIZATION (ISO): ISO-9001
   5) ALL POWER AND WIRE REQUIREMENTS SHALL FOLLOW THE 2011 NYC ELECTRICAL CODE.
   6) NYS BUILDING CODE
   7) UTILIZE MEA/BSA/OTCR APPROVED FIRE ALARM EQUIPMENT.
   8) THE REQUIREMENTS OF THE CITY OF NEW YORK BUILDING DEPARTMENT AND THE CITY OF NEW YORK FIRE DEPARTMENT.

4. SHOP DRAWINGS

A. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT, CONTRACTOR SHALL PROVIDE COMPLETE SETS OF COORDINATED SHOP DRAWINGS OF ALL NEW AND EXISTING EQUIPMENT, INDICATING CAPACITY, DIMENSIONS AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.
B. INDICATE ON EACH SHOP DRAWINGS SUBMITTED:
   1) PROJECT NAME AND LOCATION
   2) NAME OF ARCHITECT AND ENGINEER
   3) ITEM IDENTIFICATION
   4) APPROVAL STAMP OF PRIME CONTRACTOR
C. SUBMISSIONS:
   1) SUBMISSIONS 11 IN. X 17 IN. OR SMALLER: IF THE SUBMISSION IS A CATALOG CUT, THEN THE CONTRACTOR SHALL SUBMIT VIA EMAIL TO ENGINEER AND ARCHITECT.
D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:
   1) FIRE ALARM DEVICES
   2) RACEWAYS
   3) WIRE AND CABLE

5. AS-BUILT DRAWINGS AND EQUIPMENT OPERATIONAL INSTRUCTIONS

A. REPRODUCIBLE "AS-BUILT" DRAWINGS SHALL BE PROVIDED INDICATING THE AS INSTALLED CONDITIONS OF THE WORK. "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF THE INSTALLATION.

6. GENERAL PROVISIONS FOR FIRE ALARM WORK:

A. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES. WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.
B. DEFINITIONS:
   1) "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.
   2) "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.
   3) "FURNISH" OR "SUPPLY: TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.
   4) "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.
   5) "WIRING": RACEWAY, FITTINGS, WIRE, BOXES AND RELATED ITEMS.
   6) "CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES, OR IN ENCLOSURES.
   7) "EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.
   8) "SIMILAR" OR "EQUAL": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.
C. QUALITY ASSURANCE
   1) QUALITY AND GAUGE OF MATERIALS: NEW, BEST OF THEIR RESPECTIVE KINDS, FREE FROM DEFECTS AND LISTED BY UNDERWRITERS LABORATORIES, INC., OR OTHER NATIONALLY APPROVED TESTING AGENCY AND BEARING THEIR LABEL. MATERIALS AND EQUIPMENT OF SIMILAR APPLICATION SHALL BE OF SAME MANUFACTURER, EXCEPT AS NOTED.
   2) GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AS DEFINED IN PARAGRAPH 2.C.
D. PRODUCT DELIVERY, STORAGE AND HANDLING
   1) ACCESSIBILITY: FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS SHALL BE PERMITTED. CHANGES OF MAGNITUDE OR INVOLVING EXTRA COST ARE NOT PERMISSIBLE WITHOUT REVIEW. GROUP CONCEALED ELECTRICAL EQUIPMENT REQUIRING ACCESS WITH EQUIPMENT FREELY ACCESSIBLE THROUGH ACCESS DOORS.
E. MATERIALS
   1) CABLE TAGS: TAG EACH CONDUCTOR PASSING THROUGH SPLICE OR PULLBOX WITH A WHITE LINEN TAG, INDICATING POINT OF ORIGIN AND TERMINATION OF THE CIRCUIT.
   2) INSERTS AND SUPPORTS:
      a. INSERTS: STEEL, SLOTTED TYPE, FACTORY PAINTED.
         – SINGLE ROD: SIMILAR TO GRINNELL FIG. 281.
         – MULTI-ROD: SIMILAR TO FEE AND MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS.
         – CLIP FORM NAILS FLUSH WITH INSERTS.
         – MAXIMUM LOADING 75 PERCENT OF RATING.
      b. SUPPORTS FROM BUILDING CONSTRUCTION: INSERTS, BEAM CLAMPS, STEEL FISHPLATES (IN CONCRETE FILL ONLY), CANTILEVER BRACKETS OR OTHER MEANS. SUBMIT FOR REVIEW.
      c. WHERE BUILDING CONSTRUCTION IS INADEQUATE: PROVIDE ADDITIONAL FRAMING. SUBMIT FOR REVIEW.
F. PAINT SHALL BE THE BEST GRADE FOR ITS PURPOSE. DELIVER IN ORIGINAL SEALED CONTAINERS AND APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COLORS SHALL BE AS SELECTED BY ARCHITECT OR ENGINEER. UTILIZE HOT DIPPED GALVANIZED OR DIPPED IN ZINC BASED PRIMER FOR: JUNCTION BOXES, ZINC BASED PRIMER WITH FINISH TO MATCH SURROUNDINGS SHALL BE USED FOR MARRED SURFACES OF STEEL EQUIPMENT AND RACEWAYS. A FIELD-APPLIED ZINC BASED PRIME COAT SHALL BE UTILIZED FOR STEEL OR IRONWORK.
G. BRUSH AND CLEAN WORK PRIOR TO CONCEALING, PAINTING AND ACCEPTANCE. PAINTED EXPOSED WORK SOILED OR DAMAGED; CLEAN AND REPAIR TO MATCH ADJOINING WORK BEFORE FINAL ACCEPTANCE. REMOVE DEBRIS FROM INSIDE AND OUTSIDE OF MATERIAL AND EQUIPMENT.

7. CIRCUITING GUIDELINES

A. EACH SIGNALING LINE CIRCUIT (SLC) SHALL BE CIRCUITED SO DEVICE LOADING IS NOT TO EXCEED 80% OF LOOP CAPACITY IN ORDER TO LEAVE FOR SPACE FOR FUTURE DEVICES. THE LOOP WIRING CLASS SHALL MATCH EXISTING.
B. NAC CIRCUITS SHALL MATCH EXISTING. EACH OF THE FOLLOWING TYPES OF ALARM NOTIFICATION APPLIANCES SHALL BE CIRCUITED AS SHOWN ON THE DRAWINGS BUT SHALL BE TYPICALLY AS FOLLOWS:
   1) AUDIBLE SIGNALS: PROVIDE SUFFICIENT SPARE CAPACITY TO ASSURE THAT THE ADDITION OF FIVE (5) AUDIBLE DEVICES CAN BE SUPPORTED WITHOUT THE NEED FOR ADDITION CONTROL COMPONENTS (POWER SUPPLIES, SIGNAL CIRCUIT MODULES, AMPLIFIERS, BATTERIES, ETC.)
   2) VISUAL SIGNALS PROVIDE SUFFICIENT SPARE CAPACITY TO ASSURE THAT THE ADDITION OF THREE (3) VISUAL DEVICES CAN BE SUPPORTED WITHOUT THE NEED FOR ADDITION CONTROL COMPONENTS (POWER SUPPLIES, SIGNAL CIRCUIT MODULES, BATTERIES, ETC.)
C. IN NO CASE SHALL ANY FIRE ALARM CIRCUIT BE SIZED BEYOND 80% OF CIRCUIT CAPACITY.

8. RACEWAYS:

A. PROVIDE RACEWAYS COMPLETE WITH BOXES, FITTINGS AND ACCESSORIES. CONDUIT OR TUBING SIZES REFERRED TO IN SPECIFICATIONS AND ON DRAWINGS ARE NOMINAL DIAMETERS. MINIMUM DIAMETER SHALL BE 3/4 IN.
B. MATERIALS
   1) RACEWAYS:
      a. RIGID STEEL CONDUIT: FULL-WEIGHT PIPE, GALVANIZED, THREADED.
      b. ELECTROMETALLIC TUBING (EMT): THIN WALL PIPE, GALVANIZED, THREADLESS.
      c. FLEXIBLE STEEL CONDUIT: CONTINUOUS SINGLE STRIP, GALVANIZED.
   2) FITTINGS AND ACCESSORIES:
      a. RIGID STEEL: NONSPLIT, THREADED, STEEL OR MALLEABLE IRON. ZINC DIE CAST NOT PERMITTED.
      b. ELECTROMETALLIC TUBING: COMPRESSION TYPE. GALVANIZED RIGID STEEL ELBOWS, 2 IN. OR LARGER.
      c. FLEXIBLE METALLIC CONDUIT: ANGLE WEDGE TYPE WITH INSULATED THROAT.
      d. BUSHINGS: METALLIC INSULATED TYPE.
   3) BOXES:
      a. JUNCTION BOXES: GALVANIZED SHEET STEEL WITH SCREW-ON COVERS, EXCEPT AS NOTED. FURNISH WITH INSULATED SUPPORTS FOR CABLES. LOCATIONS SHALL BE AS NOTED OR REQUIRED AND ACCESSIBLE.
C. PROVIDE RACEWAYS ONLY AS HEREIN SPECIFIED, EXCEPT AS NOTED. RACEWAYS SHALL BE RUN CONCEALED, EXCEPT AS NOTED.
PROVIDE RACEWAY SUPPORT UTILIZING CEILING TRAPEZE, STRAP HANGERS, OR WALL BRACKETS. PROVIDE U-BOLTS AT EACH FLOOR LEVEL OF RISER RACEWAYS AND CONNECTED TO ACCEPTABLE SUPPORTS. PROVIDE RISER CLAMPS AT EACH FLOOR LEVEL OF RISER RACEWAYS AND RESTING ON SLAB.
SECURE ALL RACEWAYS TO SUPPORTS WITH PIPE STRAPS OR U-BOLTS. SPACING OF SUPPORTS SHALL BE A MINIMUM OF 10 FT ON CENTER FOR METALLIC RACEWAY AND AS REQUIRED FOR NONMETALLIC RACEWAY. SPACING SHALL BE 5 FT ON CENTER FOR WIREWAYS AND PER CODE AND AS NOTED FOR OTHERS. MOUNT SUPPORTS TO STRUCTURE MASONRY WITH TOGGLE BOLTS ON HOLLOW MASONRY, EXPANSION SHIELDS OR INSERTS IN CONCRETE AND BRICK, MACHINE SCREWS ON METAL, BEAM CLAMPS ON FRAMEWORK, WOOD SCREWS ON WOOD, AND PAN THROUGH STRAPS IN METAL DECK. NAILS, RAWL PLUGS OR WOOD PLUGS SHALL NOT BE PERMITTED. WHERE REQUIRED BY STRUCTURE, FURNISH THROUGH BOLTS AND FISHPLATES.
MAINTAIN GROUNDING CONTINUITY OF INTERRUPTED METALLIC RACEWAYS WITH GROUND CONDUCTOR, AND IN FLEXIBLE CONDUIT FOR FEEDERS AND MOTOR TERMINAL CONNECTIONS.
EMT SHALL BE PERMITTED FOR WIRING, IN DRY LOCATIONS, DRY WALLS, HUNG CEILINGS, HOLLOW BLOCK WALLS AND FURRED SPACES. CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING. ALL COUPLINGS SHALL BE COMPRESSION TYPE. NO SET SCREW FITTINGS.
EXPANSION FITTINGS SHALL BE INSTALLED AT RIGHT ANGLES WITH CLIP JOINT CENTERED IN EXPANSION JOINT. PROVIDE A LENGTH OF RUN IN ACCORDANCE MANUFACTURER'S RECOMMENDATIONS. PRESET FITTINGS SHALL ALLOW FOR TEMPERATURE VARIATION. RACEWAYS PASSING THROUGH FIRE-RATED CONSTRUCTION: SEAL OPENING WITH FIRE SEALANT.
D. ERECT DEVICES IN ADVANCE OF FURRING AND FIREPROOFING. BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRON OR CUT IN WITH MASONRY.
E. JUNCTION BOXES SHALL BE LOCATED CLEAR OF OTHER TRADES. CONCEAL JUNCTION BOXES IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. BOXES SHALL BE ACCESSIBLE. SUPPORT BOXES FROM BUILDING STRUCTURE, INDEPENDENT OF CONDUIT.
F. FIRE SEALANTS: PROVIDE FOR RACEWAYS AND WIRE PASSING THROUGH FLOOR SLOTS, SLEEVES OR OPENINGS IN FIRE-PARTITIONS ROOMS.

10. TESTS

A. THE FIRE ALARM SYSTEM VENDOR SHALL TEST THE SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND NFPA 72. THE VENDOR SHALL PROVIDE COMPLETED REPORTS TO THE CONSULTING ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FINAL ACCEPTANCE.

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REVISIONS

REV	DATE	DESCRIPTION / COMMENTS
	2/3/2020	ISSUED FOR BID

SEAL

ISSUED FOR: BID & PERMIT
ISSUED DATE: 09.11.2019

DRAWN BY: AR
CHECKED BY: DC

PROJECT NUMBER: 20076
SU-021119

DRAWING NAME
FIRE ALARM SPECIFICATIONS

DRAWING NO.
FA-200

GENERAL NOTES

1. GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC. DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT.
3. COORDINATE THIS WORK WITH THAT OF OTHER TRADES.
4. DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL.
5. MANUFACTURERS MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
6. PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURER'S REQUIREMENTS.
7. PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
8. PROVIDE HANGERS, ANCHORS, SUPPLEMENTAL STEEL & SUPPORTS AS REQUIRED TO SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM STRUCTURE.
9. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERING WITH EXISTING OPERATIONS IN THE FACILITY.
10. MECHANICAL CONTRACTOR TO NOTIFY OWNER PRIOR TO STARTING WORK TO VERIFY COMPLIANCE WITH BOND AND WARRANTY OF EXISTING ROOF.
11. RUN DUCTS CONCEALED, UNLESS OTHERWISE SPECIFIED AND CLEAR OF CEILING INSERTS.
12. INSTALL THERMOSTATS 4'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE DIRECTED BY ARCHITECT.

DEMOLITION NOTES

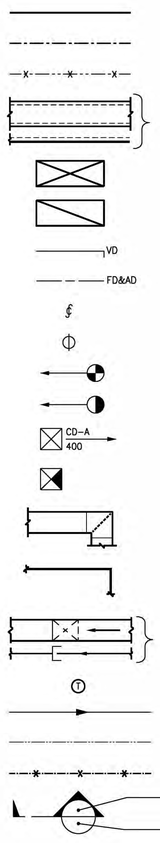
1. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF HVAC WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE OWNER/ENGINEER.
2. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE TO FUNCTIONING HVAC SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
3. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
4. THE CONTRACTOR SHALL NOTIFY THE OWNER, AT THE APPROPRIATE TIME, OF THE PROJECTED DEMOLITION AND INSTALLATION SCHEDULE SO THAT THE MECHANICAL WORK MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
5. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
6. THE SHUTDOWN OF EXISTING BUILDING HVAC SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.

AIR SYSTEMS

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES.
2. INTERNAL AIRFLOW DIMENSIONS ARE SHOWN FOR DUCTS. INCREASE DUCT SIZE AS NECESSARY TO MAINTAIN FREE FLOW AREA INDICATED.
3. USE FLAT TRANSVERSE SEAM FOR DUCTWORK WHERE SPACE AVAILABLE DICTATES.
4. DIFFUSER SIZES SHOWN ARE NECK SIZES. REGISTERS AND GRILLE SIZES ARE NOMINAL.
5. PROVIDE VOLUME DAMPERS OR OTHER APPROVED BALANCING DEVICES AT DUCT BRANCHES AND RUN OUTS, AND AT REGISTER GRILLE AND DIFFUSER NECKS IN SUPPLY, RETURN AND EXHAUST DUCTWORK WHETHER SHOWN OR NOT.

HVAC SYMBOLS

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)



- SINGLE LINE DUCTWORK OR EQUIPMENT – NEW
- SINGLE LINE DUCTWORK OR EQUIPMENT – EXISTING
- DUCTWORK OR EQUIPMENT TO BE REMOVED
- DUCTWORK WITH ACOUSTICAL LINING
- DUCTWORK UNDER POSITIVE PRESSURE (SUPPLY AIR OR FAN DISCHARGE)
- DUCT UNDER NEGATIVE PRESSURE (RETURN, EXHAUST, OR OUTSIDE AIR)
- VOLUME DAMPER
- FIRE DAMPER AND ACCESS DOOR
- CUBIC FEET PER MINUTE
- DIAMETER
- POINT OF CONNECTION
- POINT OF DISCONNECTION
- TYPE A CEILING DIFFUSER (400 CFM SUPPLY AIR)
- RECTANGULAR DIFFUSER WITH BLANKING PLATE
- VANED ELBOW (SEE DETAIL)
- VANED ELBOW (SEE DETAIL) OR RADIUS ELBOW
- VERTICAL DUCT DROP (IN DIRECTION OF AIRFLOW)
- THERMOSTAT
- NEW PIPE WITH DIRECTION OF FLOW
- EXISTING PIPING
- PIPING TO REMOVED
- SECTION DESIGNATION
- SHEET NO. WHERE SECTION IS SHOWN

MECHANICAL DRAWING LIST

M-001	MECHANICAL SYMBOLS LIST, ABBREVIATIONS, GENERAL NOTES AND DRAWING LIST
M-100	MECHANICAL DEMOLITION/EXISTING PLAN
M-101	MECHANICAL CONSTRUCTION PLAN
M-200	MECHANICAL SCHEDULES AND DETAILS
M-300	MECHANICAL SPECIFICATIONS

HVAC ABBREVIATIONS

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AL	ACOUSTICAL LINING
AP	ACCESS PANEL
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CLG	CEILING
CR	CEILING REGISTER
DWG	DRAWING
DIAM	DIAMETER
DN	DOWN
(E)	EXISTING TO REMAIN
EL	ELEVATION
(ER)	EXISTING TO BE REMOVED
(ERR)	EXISTING TO BE REMOVED AND RELOCATED
EXIST	EXISTING
°F	DEGREES FAHRENHEIT
FD	FIRE DAMPER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
GAL	GALLON
HR	HOUR
HT	HEIGHT
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IN	INCH OR INCHES
KW	KILOWATT
L	LENGTH
LD	LINEAR DIFFUSER
LIN FT	LINEAR FEET
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MIN	MINIMUM
NO.	NUMBER
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
RA	RETURN AIR
RG	RETURN GRILLE
RHC	REHEAT COIL
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SPEC	SPECIFICATION
TEMP	TEMPERATURE
TRD	TRANSFER DUCT
TYP	TYPICAL
V	VOLTS

ARCHITECT

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PROJECT

SUNY PURCHASE COLLEGE
VISUAL ARTS PERCEPTION LAB RENOVATION
735 ANDERSEN HILL RD
PURCHASE, NY 10577

REVISIONS

REV	DATE	DESCRIPTION / COMMENTS
	2/3/2020	ISSUED FOR BID

SEAL

ISSUED FOR: BID & PERMIT

ISSUED DATE: 09.11.2019

DRAWN BY: SD

CHECKED BY: FT

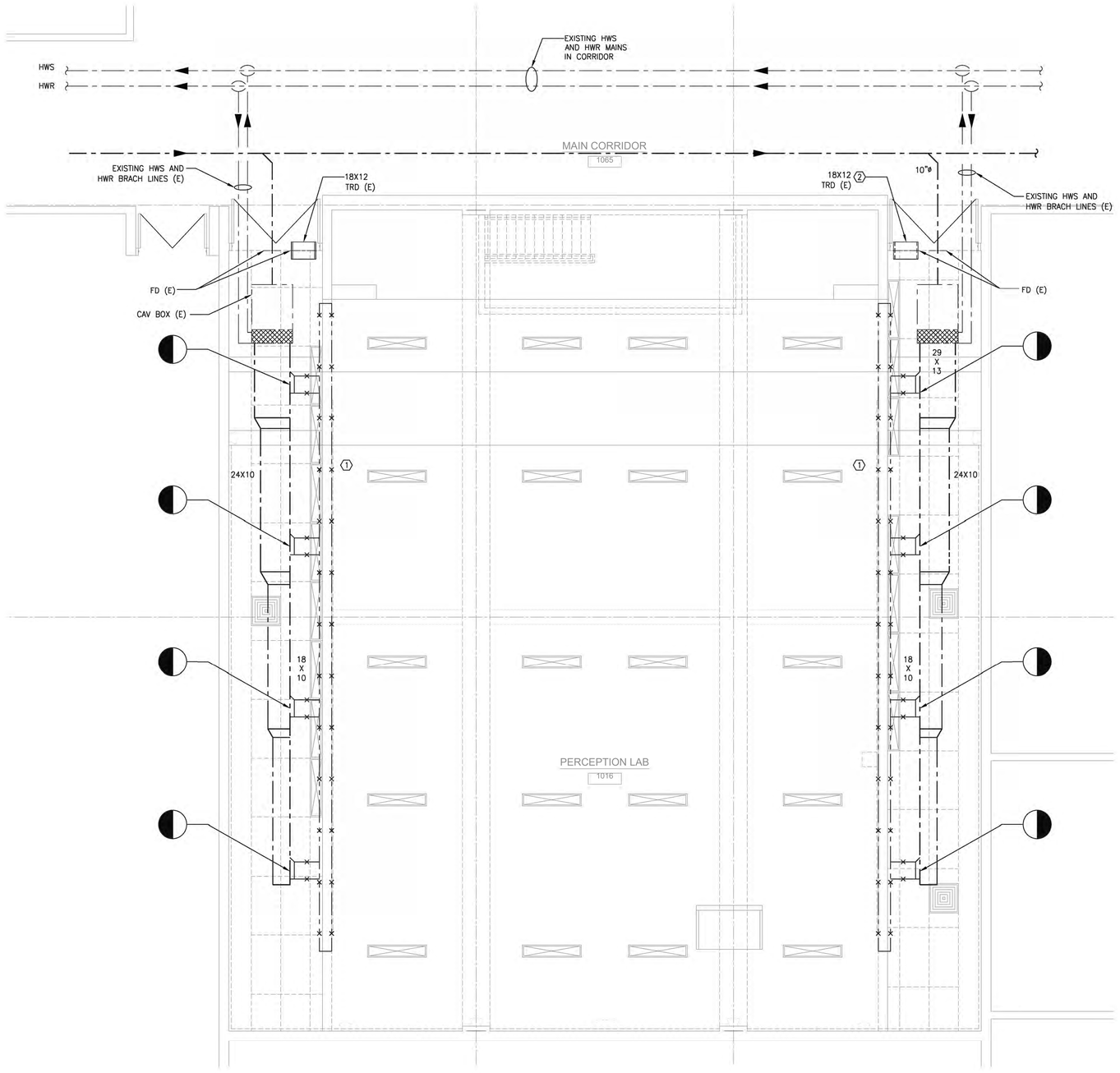
PROJECT NUMBER: 20076
SU-021119

DRAWING NAME

MECHANICAL SYMBOLS LIST, ABBREVIATIONS, GENERAL NOTES AND DRAWING LIST

DRAWING NO.

M-001



1 EXISTING/DEMOLITION PLAN
SCALE: 1/4"=1'-0"

KEY NOTES:

1. EXISTING LINEAR DIFFUSER PLENUM TO BE REMOVED ALONG WITH BRANCH DUCTS, AS INDICATED. BRANCH DUCT OPENINGS ON THE MAIN SUPPLY DUCT TO BE PATCHED AIR TIGHT.
2. EXISTING SLEEVE FOR TRANSFER AIR IS COVERED BY GYPSUM BOARD AT THIS LOCATION. GYPSUM BOARD SHALL BE REMOVED FOR TRANSFER OF AIR.

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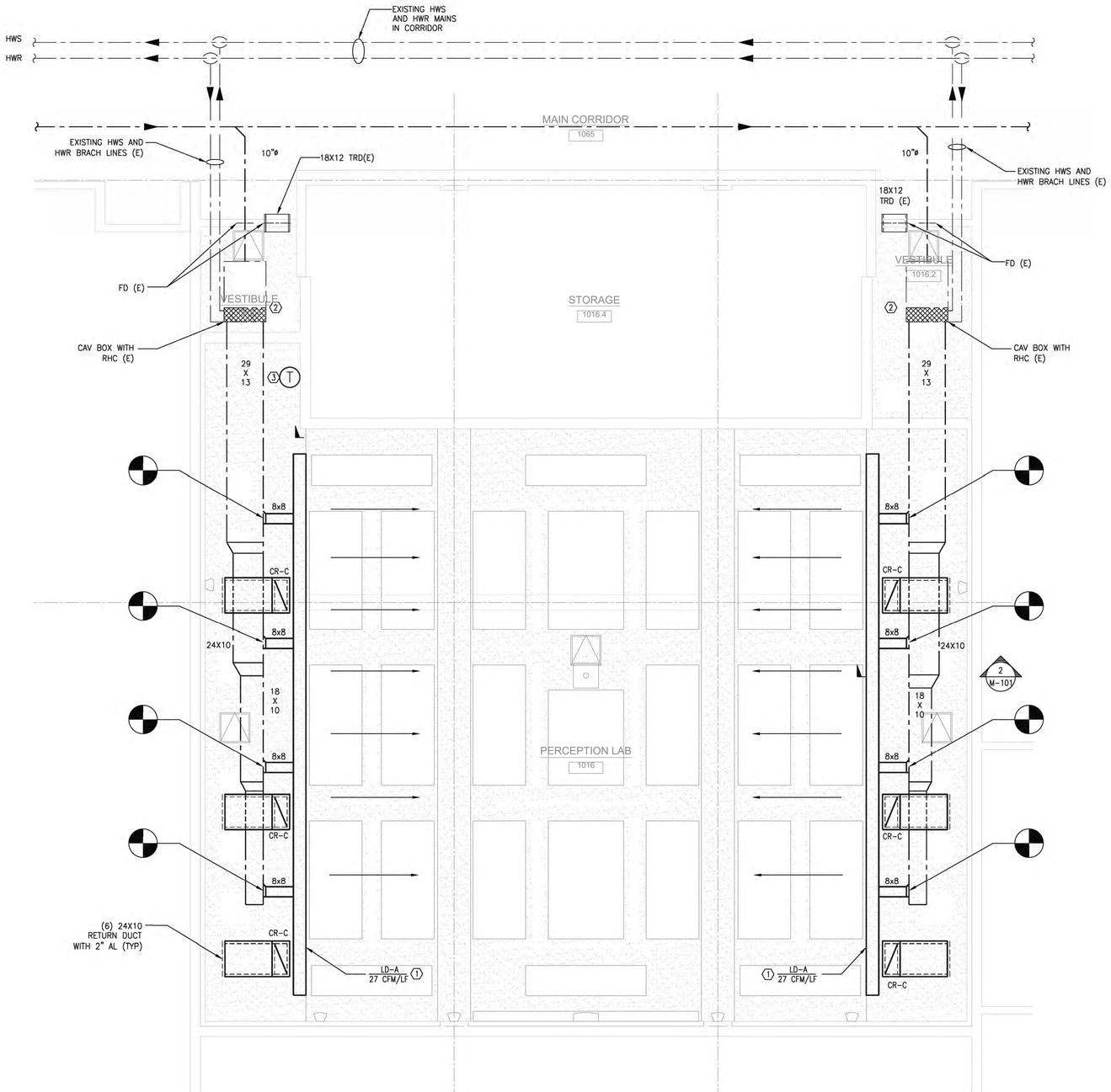
DRAWING NAME
MECHANICAL
DEMOLITION/
EXISTING PLAN

DRAWING NO.
M-100



1 PERCEPTION LAB CONSTRUCTION PLAN
SCALE: 1/4"=1'-0"

GENERAL NOTES:

1. ALL NEW AND EXISTING EQUIPMENT (CAV BOXES), DUCTWORK AND PIPING WITHIN THE NEW GALLERY AND PERCEPTION LAB SPACES SHALL BE SUPPORTED OR RE-HUNG USING A COMBINATION OF 'KINETICS' AF-100 (FOR 20-100 LBS LOADS) AND AF-200 (FOR 50-200 LBS LOADS) HANGERS.
2. THE PERCEPTION LAB AND NEW GALLERY SPACE ARE SERVED BY EXISTING UNIT, AC-4, WHICH IS A CONSTANT AIR VOLUME (CAV) SYSTEM.
3. ALL DEMOLITION AND NEW WORK SHALL BE SCHEDULED IN ADVANCE WITH THE BUILDING MANAGER.

KEY NOTES:

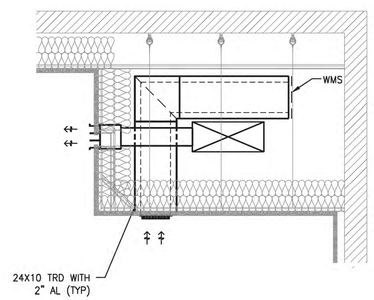
(1) NEW 3-SLOT LINEAR DIFFUSER WITH 27 CFM/FT. TOTAL LENGTH OF LINEAR DIFFUSER IS 35'. CONTRACTOR TO RE-BALANCE THE EXISTING CAV BOXES TO PROVIDE 960 CFM.

(2) PROVIDE A 24"X24" CEILING ACCESS PANEL. COORDINATE FINAL LOCATION DURING CONSTRUCTION.

(3) CONTRACTOR SHALL PROVIDE A NEW DDC THERMOSTAT TO REPLACE THE EXISTING PNEUMATIC THERMOSTAT THAT SERVES THE PERCEPTION LAB SPACE. THE NEW THERMOSTAT WILL CONTROL BOTH EXISTING CAV BOXES.

CONTRACTOR SHALL DISCONNECT AND CAP THE EXISTING COMPRESSED AIR PIPING TO THE OLD PNEUMATIC THERMOSTAT.

CONTRACTOR SHALL PROVIDE TRANSDUCER AND ANY OTHER REQUIRED CONTROL DEVICES TO ALLOW INTERFACE BETWEEN THE NEW DDC CONTROL AND THE EXISTING CAV BOX CONTROLS. THE FINAL THERMOSTAT LOCATION SHALL BE CONFIRMED DURING CONSTRUCTION.



2 SECTION AT SOFFIT (PERCEPTION LAB)
SCALE: 1/2"=1'-0"

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DRAWING NAME
MECHANICAL CONSTRUCTION PLAN

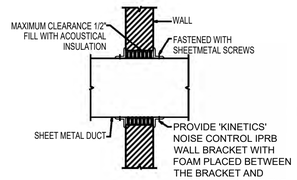
DRAWING NO.
M-101

DIFFUSER, GRILLE & REGISTER SCHEDULE

DESIGN BASIS: TITUS

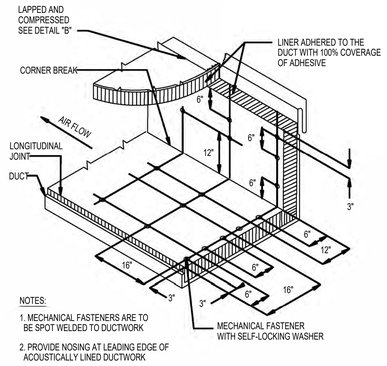
TAG	APPLICATION	MODULE SIZE	NECK SIZE	CFM	MAX P.D.	MAX NC	MATERIAL	MODEL	REMARKS
CR-C	RETURN	24X10	–	0-475	0.006	–	STEEL	350 RL	SEE NOTES
LD-A	SUPPLY	–	–	960	0.0066	10	STEEL	ML-39	SEE NOTES

NOTES:
1. COORDINATE COLOR AND FINISH WITH ARCHITECT.



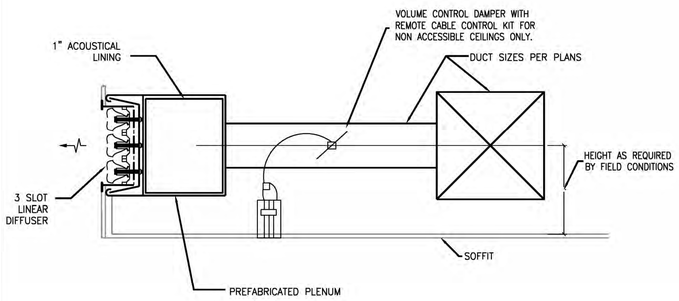
1 DUCT PIERCING RATED OR NON-RATED WALLS

NOT TO SCALE



2 ACOUSTICAL DUCT LINING DETAIL

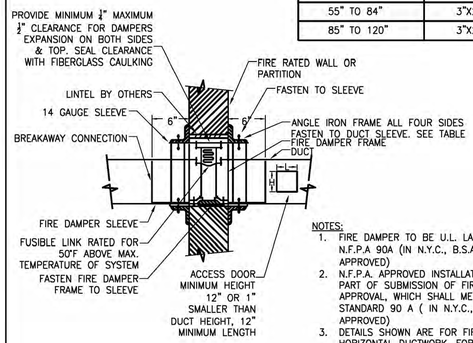
NOT TO SCALE



4 LINEAR SLOT DIFFUSER CONNECTION

NOT TO SCALE

ANGLE IRON TABLE	
WALL OPENING	ANGLE SIZE
UP TO 30"	1"X1"X⅛"
31" TO 54"	1½"X1½"X⅛"
55" TO 84"	3"X2"X3/16"
85" TO 120"	3"X2"X3/16"



NOTES:
1. FIRE DAMPER TO BE U.L. LABELED 555 PER N.F.P.A 90A (IN N.Y.C., B.S.A & M.E.A. APPROVED)
2. N.F.P.A. APPROVED INSTALLATION DETAILS TO BE PART OF SUBMISSION OF FIRE DAMPER FOR APPROVAL, WHICH SHALL MEET N.F.P.A. STANDARD 90 A (IN N.Y.C., B.S.A.& M.E.A. APPROVED)
3. DETAILS SHOWN ARE FOR FIRE DAMPERS IN HORIZONTAL DUCTWORK. FOR FIRE DAMPERS IN VERTICAL DUCTWORK DETAILS SIMILAR.
4. ACCESS DOOR IS SHOWN INSIDE OF DUCT: IF FUSIBLE LINK IS MORE ACCESSIBLE FROM BOTTOM OF DUCT RELOCATE ACCESS DOOR.
5. FIRE DAMPERS SHALL BE SPRING LOADED

5 FIRE DAMPER DETAIL

NOT TO SCALE

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DRAWING NAME
MECHANICAL SCHEDULES AND DETAILS

DRAWING NO.
M-200

HVAC SPECIFICATIONS

1. General

A. The "General Conditions of the Contract for Construction," AIA document A201, latest edition, and these specifications as applicable are part of this contract.

B. All applicable codes, laws and regulations governing or relating to any portion of this work are hereby incorporated into and made a part of these specifications, and their provisions shall be carried out by the contractor who shall inform the owner, prior to submitting a proposal, of any work or materials which violate any of the above laws and regulations. Any work done by the contractor causing such violation shall be corrected by the contractor.

C. Investigate each space through which equipment must be moved. Where necessary, equipment shall be shipped from manufacturer in sections of size suitable for moving through available restrictive spaces. Ascertain from building owner at what times of day equipment may be moved through all areas.

D. Ductwork and piping is shown diagrammatically and does not show all offsets, drops and rises of runs. The contractor shall allow in his price for routing of ductwork and piping to avoid obstructions. Exact locations are subject to approval of the architect. Coordination with the existing services, including those of other trades is required.

E. Support all ductwork and piping from building structure and/or framing in an approved manner. Where overhead construction does not permit fastening or supports for equipment, furnish additional framing. Inserts shall be steel, slotted type and factory painted. Single rod shall be similar to Grinnell Fig. 281. Multi-rod shall be similar to Fee & Mason Series 9000 with end caps and closure strips. Maximum loading including pipes, ductwork contents and covering shall not exceed 75% of rated insert capability. When supporting from building use beam clamps in approved manner.

F. Install work so as to be readily accessible for operation, maintenance and repair. Minor deviations from drawings may be made to accomplish this, but changes which involve extra cost shall not be made without approval.

G. Removal and relocation of certain existing work will be necessary for the performance of the general work. All existing conditions cannot be completely detailed on the drawings. The contractor shall survey the site and include all changes in making up the work proposal.

H. Plan installation of new work and connections to existing work to insure minimum interference with regular operation of existing facilities. All system shutdowns affecting other areas shall be coordinated with building owner. Install isolation valves at point of connection to the existing piping. Provide temporary duct caps and/or connections to minimize shutdown time.

I. Connect new work to existing work in neat and approved manner. Restore existing work disturbed while installing new work to acceptable condition as determined by architect.

J. Disconnect, remove and/or relocate existing material, equipment and other work as noted or required for proper installation of new system.

K. The contractor shall keep all equipment and materials, and all parts of the building, exterior spaces and adjacent streets, sidewalks and pavements, free from material and debris resulting from the execution of this work. Excess materials will not be permitted to accumulate either on the interior or the exterior.

L. Seal openings around ducts and piping through partitions, walls and floors (not in shafts) with mineral wool or other noncombustible material.

M. All present material, equipment and construction debris to be removed under this contract shall become the property of the contractor with the exception of specific equipment and apparatus requested by the building representative, architect or as noted to be relocated on the drawings shall be properly disposed of by this contractor.

N. Materials and workmanship, unless otherwise noted, shall be in accordance with building standards.

O. The work in the building shall be done when and as directed, and in a manner satisfactory to the owner. The work shall be performed so as to cause the least possible inconvenience and disturbance to the present occupants.

P. The contractor's proposal for all work shall be predicated on the performance of the work during regular working hours. When so directed, however, the contractor shall install work in overtime and the additional cost to be charged therefore shall be only the "premium" portion of the wages paid.

Q. Unless otherwise specifically specified, include all cutting and patching of existing floors, walls, partitions and other materials in the existing building. The contractor shall restore these areas to original condition.

R. Removable access tiles and/or access doors are required in hung ceilings, shafts and walls for all volume and fire dampers, and all other mechanical equipment and devices. HVAC contractor to furnish access location requirements to general contractor. Access tile identification: provide buttons, tabs, and markers to identify location of concealed valves, dampers and equipment.

S. All material and equipment to be new unless otherwise noted and shall be in accordance with building standards.

T. Submission of a proposal shall be construed as evidence that a careful examination of the portions of the existing building, equipment, etc., which affect this work, and the access to such spaces, has been made and that the contractor is familiar with existing conditions and difficulties that will affect the execution of the work. Later claims shall not be made for labor, equipment or materials required because of difficulties encountered which could have been foreseen during such an examination. The on-site inspection shall verify existing ductwork, piping (sizes, clearances, etc) and conditions.

U. Insurance: In accordance with building requirements and shall include a hold harmless clause for owner and engineer.

V. The final acceptance will be made after the contractor has adjusted his equipment, balanced the various systems, demonstrated that it fulfills the requirements of the drawings and specifications and has furnished all the required certificates of inspection and approval.

W. Specifications are of simplified form and include incomplete sentences. Words or phrases such as "the contractor shall," "shall be," "furnish," "provide," "a," "the," and "all" have been omitted for brevity.

X. Definitions:

1) "Provide": To supply, install and connect up complete and ready for safe and regular operation the particular work referred to unless specifically otherwise noted.

2) "Install": To erect, mount and connect complete with related accessories.

3) "Furnish" or "Supply": To purchase, procure, acquire and deliver complete with related accessories.

4) "Work": Labor, materials, equipment, apparatus, controls, accessories and other items required for proper and complete installation.

5) "Concealed": Embedded in masonry or other construction, installed in furred spaces, within double partitions or hung ceilings, in trenches, in crawl spaces, or in enclosures.

6) "Exposed": Not installed underground or "Concealed" as defined above.

7) "Similar" or "Equal": Equal in materials, weight, size, design and efficiency of specified product.

2. Scope of work

A. The work under contract includes all labor, materials and appliances necessary for the furnishing, installing and testing, complete and ready for safe operation of the systems. Work shall be installed in a neat, workmanlike manner.

B. The contractor shall give necessary notice, file drawings and specifications with the department having jurisdiction, obtain permits or licenses necessary to carry out this work and pay all fees therefore. The contractor shall arrange for inspection and tests of any or all parts of the work if so required by authorities and pay all charges for same. The contractor shall pay all costs for, and furnish to the owner before final billing, all certificates necessary as evidence that the work installed conforms with all regulations where they apply to this work.

C. The contractor shall furnish a written guarantee to replace or repair promptly and assume responsibility for all expenses incurred for any workmanship and equipment in which defects develop within one year from the date of final certificate for payment and/or from date or actual use of equipment or occupancy of spaces, by owner, included under the various parts of the work, whichever date is earlier. This work shall be done as directed by the owner. This guarantee shall also provide that where defects occur, the contractor will assume responsibility for all expenses incurred in repairing and replacing work of other trades affected by defects, repairs or replacements in equipment supplied by the contractor.

D. Special inspection by a licensed professional engineer to be hired by the owner.

E. Prior to the installation of any work and procurement of equipment provide complete set of coordinated shop drawings of all new and existing equipment, ductwork, piping and control systems indicating capacity dimensions and sequence of operation for written approval by the architect and engineer.

3. Shop drawings

A. Indicate on each submission: project name and location, architect and engineer, item identification and approval stamp of prime contractor.

B. Submissions:

1) Submissions 11 in. X 17 in. or smaller: Provide in electronic PDF format to the engineer with a copy to the architect. All submittals shall be complete, otherwise they will be returned to the contractor as "not reviewed".

2) Submissions larger than 11 in. X 17 in.: Provide in electronic PDF format to the engineer with a copy to the architect. All submittals shall be complete, otherwise they will be returned to the contractor as "not reviewed".

C. Submit shop drawings for the following:

1) Sheet metal shop standards.
2) Duct layout.
3) Duct insulation.
4) Ceiling diffusers and return grilles.
5) Air and water testing and balancing report.

4. As-built drawings and equipment operation instructions

A. On completion and acceptance of work, this contractor shall furnish written instructions, equipment manuals and demonstrate to the owner the proper operation and maintenance of all equipment and apparatus furnished under this contract.

B. These instructions shall be typed on 8-1/2 in. X 11 in. paper and bound in three-ring binders with clear acetate covers. The contractor shall give three copies of the instructions to the owner and one copy to the engineer.

C. The instruction booklet shall be organized in sections, with one section per system. The cover of the instruction booklet shall bear the name, address and phone number of the project, architect, engineer, mechanical contractor and subcontractors.

D. As-built drawings in PDF format indicating as-installed conditions shall be provided to the architect after completion of the installation.

5. Sheet metal work

A. Except as otherwise shown or noted, all ductwork and other sheet metal work shall be galvanized sheet steel and shall be installed in accordance with the latest edition of Sheet Metal and Air Conditioning Contractors National Association, Inc. duct construction standards, pressure classification 2 in. W.G.

B. Volume dampers: Galvanized steel, per SMACNA "Low Velocity Manual," except provide bearing at one end of damper rod and quadrant, with lever and lock screw at other end. For insulated ducts, quadrants mounted on collar to clear insulation. Install with levers accessible.

C. Access doors: Insulated or uninsulated, same as duct.

1) Provide minimum 24" x 24" on main ducts, and 12" x 12" on branch ducts, unless otherwise approved, at fire dampers and at all duct accessories requiring access.

2) All access doors to be hinged, with latch similar to Ventlock No. 100.

D. Flexible connections: Neoprene-coated glass fabric, 30 oz per square yard with sewed and cemented seams, similar to Vent Fabrics. Provide with metal collars. Allow minimum movement of 1 in.

E. Turning vanes: Galvanized steel small double-thickness vanes with 2 in. inside radius.

F. Fire dampers: UL listed, galvanized steel construction, multi-bladed type, spring loaded, equipped with fusible link, conforming to NFPA standard 90A. Similar to air balance Model 319-P, rated as required. See installation on drawing.

G. All duct dimensions indicated on plans are inside clear dimensions.

H. Wire mesh screen (WMS): No. 16 USSG, 3/4 square mesh, in 1 in. wide galvanized steel enclosing frame. Flanged duct opening to receive frame.

I. Low pressure flexible duct: Shall be a factory fabricated high temperature copolymer impregnated glass fabric, locked to cold rolled flat steel spiral. Similar to Wiremold 57. Maximum installed length shall not exceed 18 in.

6. Air outlets

A. General:

1) Margin types, colors, finish and methods of attachment for all diffusers, grilles and registers shall be coordinated with architectural ceiling and wall details and specifications.

2) Frame type suitable for mounting in ceiling or wall construction as indicated on architectural plans.

3) Exact location of all air outlets as per architectural plans.

4) Suitable for operation at 20% excess and 20% less than noted capacity for constant volume systems and at 20% excess and 60% less than noted capacity for variable volume systems. Manufacturer responsible for examining application of each outlet and guarantee that each will provide required NC levels and comfort space conditions without drafts throughout operating range.

5) All registers and diffusers shall be provided with opposed blade volume dampers. Damper operating levers shall be accessible at the face of air outlets.

B. Linear diffusers: Extruded aluminum construction, natural anodize finish, removable core, air deflection vane and cable operated damper in each branch tap with minimum 3 feet of cable to diffuser face. Similar to Titus Model ML-39.

C. Registers and grilles:

1) Return and exhaust registers: steel construction with volume damper. Similar to Titus 350RL.

7. Noise control

A. All room NC levels shall be 35 or less.

B. Provide sound lining for the following ductwork:

1) Air transfer ducts.

2) Linear diffuser plenums.

3) Acoustical return boots.

4) Also where noted on a drawing.

C. Sound-lining in ductwork: Fibrous glass, minimum 3 lb density, 1 in. thickness, maximum 0.25 K factor at 75°F mean temperature with acrylic coated finish factory applied edge coating and stenciled in accordance with NFPA 90. Flame spread shall be a maximum of 25. Lining shall not support microbial growth and shall be tested in accordance with ASTM C 1071 and ASTM G21/G22. Similar to Manville Permacote Lina Caustic.

D. All sound lining, adhesives, faces and accessories to be applied in accordance with manufacturer's recommendations, except as otherwise noted.

8. Testing and balancing

A. Re-balance the existing two (2) CAV boxes for the new air flow and hot water requirements.

B. Air balancing shall be accomplished by adjustment of fans, constant volume boxes, and branch dampers for major adjustments. Adjustment of terminal dampers and devices shall be for trim or minor adjustment only. This shall be done to permit the least noise generation in the terminal areas and utilize minimum fan energy.

C. Upon completion of the installation, the contractor shall rebalance any existing portions of the air distribution system affected by the renovation, and also balance all the new work.

D. The contractor shall provide all labor, pressure gauges, flow meters, sheaves, and belts required to balance systems.

E. Balancing report shall be provided on AABC-type forms.

F. Air handling units and constant volume boxes shall be balanced to within +5% of their design capacities. All other air quantities shall be balanced to within +10% of the design quantities.

G. Balancing and testing shall be performed and supervised by one of the following independent firms specializing in testing and balancing:

1) Precision Testing and Balancing, Inc.

2) Air Conditioning Test and Balancing Corp.

3) Approved equal.

I. The performance and capacity of all systems and equipment to be demonstrated by the contractor.

9. Vibration isolation

A. General:

1) Provide isolation for ductwork.

2) Install in accordance with manufacturer's instructions.

3) Provide leveling devices and approved resilient restraining devices as required to limit equipment and piping motion in excess of 1/4 in.

4) Acceptable manufacturers:

a. Mason Industries, Inc.

b. Vibration Eliminator Co.

c. Korfund Dynamics Corp.

B. Ceiling equipment:

1) Provide spring hanger rod isolators. Steel compression spring and neoprene sound pad within a steel retainer box. Similar to Mason Type PCHS.

2) 1 in. minimum static deflection. 1/2 in. minimum reserve deflection. Factory-preloaded to 75% of rated load.

3) Provide supplemental steel as required where equipment or structure cannot support point loads.

END OF SECTION

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DRAWING NAME
MECHANICAL SPECIFICATIONS

DRAWING NO.
M-300

SYMBOLS LIST

Φ_C	DUPLEX RECEPTACLE RATED AT 20-AMPS 120 VOLTS. C= ABOVE CEILING
	WALL DOUBLE DUPLEX EACH RECEPTACLE RATED AT 20 AMPS, 120 VOLTS. N ONE 4"X4" BOX
Φ^A	SPECIAL PURPOSE RECEPTACLE FLUSH FLOOR MOUNTED LETTER INDICATES TYPE 'A' 208 VOLTS 30 AMPS 2 POLE 3 WIRE (NEMA 6-30R)
∇^2	DATA OUTLET BOX. PROVIDE CAT6 CABLE FROM 2ND FLOOR DATA CLOSET TO DATA OUTLET. REFER TO DWG E-003 FOR LOCATION OF CLOSET. '2' INDICATES QUANTITY OF DATA PORTS 'CM' INDICATED CEILING-MOUNTED
	COMBINATION VOICE/DATA OUTLET BOX. PROVIDE CAT6 CABLE FROM 2ND FLOOR DATA CLOSET TO VOICE/DATA OUTLET. REFER TO DWG E-003 FOR LOCATION OF CLOSET.
J	CEILING MOUNTED JUNCTION BOX (J-BOX) WITH HOMERUN CIRCUIT AND FLEXIBLE CONNECTION TO EQUIPMENT. USE SEALTITE FOR OUTDOOR CONNECTIONS.
J	WALL MOUNTED JUNCTION BOX (J-BOX) WITH HOMERUN CIRCUIT AND FLEXIBLE CONNECTION TO EQUIPMENT. USE SEALTITE FOR OUTDOOR CONNECTIONS.
VAV	VAV DAMPER WITH 120V, 20AMP, SINGLE POLE TOGGLE
RM	INDICATES EXISTING TO BE REMOVED
$\$^{4P}_{D}$	WALL-MOUNTED SWITCH FOR USE WITH POWERPACKS AND MOTION SENSORS. REFER TO DETAIL 2/DWG E-102 FOR MORE INFORMATION. '4P' INDICATES FOUR-POLE '2P' INDICATES TWO-POLE 'D' INDICATES DIMMING MANUFACTURER: ACUITY CONTROLS '4P' MODEL: nPODM 4P DX WH '2P' MODEL: nPODM 2P DX WH
	LOWERCASE LETTER REFERS TO FIXTURES CONTROLLED.
VS	WALL-MOUNTED VACANCY SENSOR/SWITCH. REFER TO DETAIL 2/DWG E-102 FOR MORE INFORMATION. MANUFACTURER: ACUITY CONTROLS MODEL: WSX SA WH
EM PP VS	VACANCY-POWERPACK WITH 0-10V DIMMING RECESSED IN CEILING. REFER TO DETAIL 2/DWG E-102 FOR MORE INFORMATION. MANUFACTURER: ACUITY CONTROLS MODEL: nPP16 D SA 'EM' INDICATES EMERGENCY POWERPACK 'EM' MODEL: nPP16 D ER SA LOWERCASE LETTER REFERS TO LIGHT FIXTURES CONTROLLED.
MS	CEILING-MOUNTED MOTION SENSOR. REFER TO DETAIL 2/DWG E-102 FOR MORE INFORMATION. MANUFACTURER: ACUITY CONTROLS MODEL: nCM PDT 9 RJB LOWERCASE LETTER REFERS TO LIGHT FIXTURES CONTROLLED.
MS	CORNER-MOUNTED MOTION SENSOR MOUNTED AT 10'-0" A.F.F. REFER TO DETAIL 2/DWG E-102 FOR MORE INFORMATION. MANUFACTURER: ACUITY CONTROLS MODEL: nWV PDT 16 LOWERCASE LETTER REFERS TO LIGHT FIXTURES CONTROLLED.
	CONCEALED CONDUIT
	PULL BOX
	FUSED DISCONNECT SWITCH. FUSE TO BE EQUAL TO OR LESS THAN THE WIRING AMPACITY.
	UNFUSED DISCONNECT SWITCH; SWITCH SIZE TO BE GREATER THAN OR EQUAL TO OVER CURRENT PROTECTION. U.O.N.
M	MOTOR
HOMERUN NOTATION	PP-KIT/21,23,25 PANEL DESIGNATION CKT NUMBER
	WALL-MOUNTED SPEAKER. PROVIDE EMPTY 3/4"C FROM BACK BOX TO JUNCTION BOX BEHIND PODIUM 'PA' INDICATES FOR PODIUM PA SYSTEM
WAP	CEILING-MOUNTED WIRELESS ACCESS POINT.
AL	ASSISTED LISTENING DEVICE LOCATION. PROVIDE EMPTY 1"C TO FROM BACK BOX TO JUNCTION BOX BEHIND PODIUM.
A/V	8" FLUSH POKE-THRU FLOOR BOX FOR POWER, 6-PORT DATA AND A/V. MANUFACTURER: LEGRAND BOX MODEL: 8ATC2P9K DATA PLATE MODEL: 8ATC6A SPEAKER WIRE PLATE MODEL: 8DEC (2 TOTAL) SPEAKER WIRE ACCESS STRAPS: WP1014 (2 TOTAL) BOTTOM HOUSING ASSEMBLY: 1150CHA BOTTOM HOUSING ASSEMBLY: 1125CHA

ELECTRICAL ABBREVIATIONS

@	"AT" OR "EACH AT"	G	GROUND
A	AMPERE	GFI	GROUND FAULT INTERUPTER
AC	ABOVE COUNTER	GND	GROUND
AF	AMPERE FRAME	HC	HUNG CEILING
AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER
ALM	ALARM	HZ	HERTZ
ASYM	ASYMMETRICAL	JB	JUNCTION BOX
AT	AMPERE TRIP	KVA	KILOVOLT AMPERE
AUTO	AUTOMATIC	KW	KILOWATT
AWG	AMERICAN WIRE GAUGE	KWH	KILOWATT HOUR
BKR	BREAKER	LTG	LIGHTING
BLDG	BUILDING	LV	LOW VOLTAGE
C	CONDUIT	MAX	MAXIMUM
°C	DEGREE CELSIUS	MECH	MECHANICAL
CB	CIRCUIT BREAKER	MFS	MAIN FUSED SWITCH
CKT	CIRCUIT	MIN	MINIMUM
CLG	CEILING	N	NEUTRAL
CLOS	CLOSET	NIC	NOT IN CONTRACT
COMM	COMMUNICATION	NTS	NOT TO SCALE
CONT	CONTINUATION	PB	PULLBOX
CT	CURRENT TRANSFORMER	ø	PHASE
CU	COPPER	PNL	PANEL
DEG	DEGREE	PWR	POWER
DISC	DISCONNECT	RECEPT	RECEPTACLE
DN	DOWN	REQ	REQUIRED
DWG	DRAWING	RM	ROOM
EA	EACH	SCHED	SCHEDULE
EC	ELECTRICAL CONTRACTOR	SECT	SECTION
EL	ELEVATION	SP	SINGLE POLE
ELEC	ELECTRICAL	SPEC	SPECIFICATION
EM	EMERGENCY	SW	SWITCH
EQPT	EQUIPMENT	SYM	SYMMETRICAL
EXIST	EXISTING	SYS	SYSTEMS
EXT	EXTERIOR	TBD	TO BE DETERMINED
°F	DEGREE FAHRENHEIT	TEMP	TEMPERATURE
FA	FIRE ALARM	TYP	TYPICAL
FAP	FIRE ALARM PANEL	UNF	UNFUSED
FBO	FURNISHED BY OTHERS	UON	UNLESS OTHERWISE NOTED
FIXT	FIXTURE	V	VOLT OR VOLTAGE
FL	FLOOR	VA	VOLT AMPERE
FLEX	FLEXIBLE	W	WATT
FLUOR	FLUORESCENT	WP	WEATHERPROOF
FT	FEET OR FOOT		

ELECTRICAL GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWING IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
2. SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. BOXES: PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.
3. FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION.
4. HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED.
5. PROVIDE PULLBOXES AS, REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.
6. COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.
7. WIRE COLOR CODING: AS PER CODE. WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.
8. SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART.
9. VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
10. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECT AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
11. CONTRACTOR SHALL REFER TO THE LATEST "CAMPUS NETWORK CABLE INSTALLATION SPECIFICATION AND SCOPE OF WORK" DOCUMENT FOR INFORMATION REGARDING THE INSTALLATION OF TELECOMMUNICATIONS CABLING AND PATHWAYS.

NYS ECC 2015 COMPLIANCE (LIGHTING)

ROOM	ROOM AREA (SQ. FT.)	WATTAGE	WATTS/SQ. FT.	ALLOWABLE WATTS	ALLOWABLE WATTS/SQ. FT.	LIGHTING CONTROLS
VESTIBULES	129	78	0.6	85.1	0.66	LIGHTS UNCONTROLLED
PERCEPTION LAB	2024	1200	0.6	2510	1.24	MANUAL-ON CONTROLS (VACANCY SENSORS WITH MANUAL OVERRIDE SWITCHES).
	TOTAL:	1278	--	2595.1	--	--

NOTE: ALL LIGHT FIXTURES WILL BE FURNISHED BY CAMPUS, FOR INSTALLATION BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.

ELECTRICAL DRAWING LIST

E-001	ELECTRICAL SYMBOLS LIST, ABBREVIATIONS, GENERAL NOTES, CODE COMPLIANCE AND DRAWING LIST
E-002	ELECTRICAL VISUAL ARTS BUILDING NORTH FIRST FLOOR PLAN
E-003	ELECTRICAL VISUAL ARTS BUILDING NORTH SECOND FLOOR PLAN
ED-101	ELECTRICAL DEMOLITION PLAN
ED-102	ELECTRICAL LIGHTING DEMOLITION PLAN
E-101	ELECTRICAL POWER/DATA PLAN
E-102	ELECTRICAL LIGHTING PLAN AND LIGHTING CONTROLS WIRING DIAGRAM
E-200	ELECTRICAL PANEL SCHEDULES AND DETAILS
E-300	ELECTRICAL SPECIFICATIONS

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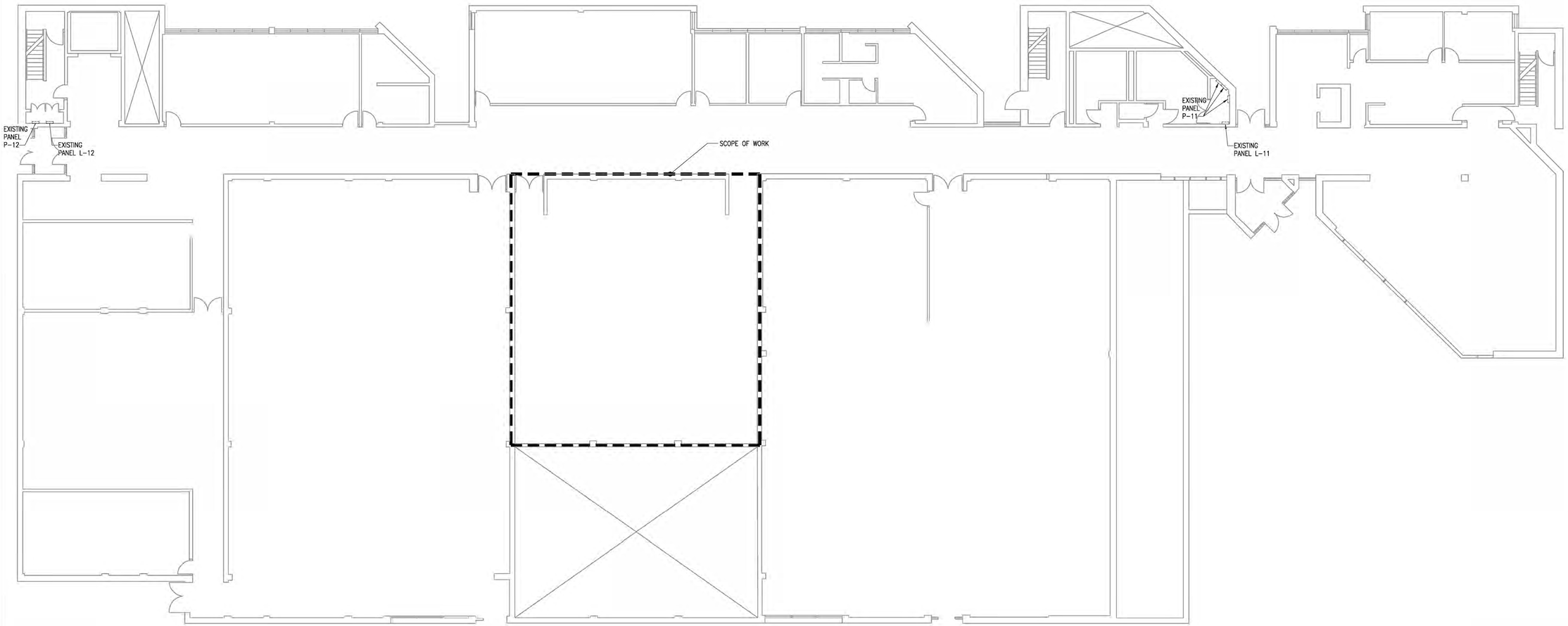
DRAWING NAME
ELECTRICAL SYMBOLS, ABBREVIATIONS, GENERAL NOTES, CODE COMPLIANCE AND DRAWING LIST

DRAWING NO.
E-001



1 VISUAL ARTS BUILDING NORTH FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0"

NOTE: PANEL LOCATIONS SHOWN FOR REFERENCE ONLY. ALL CIRCUITS SERVING PERCEPTION LAB TO BE RE-USED.

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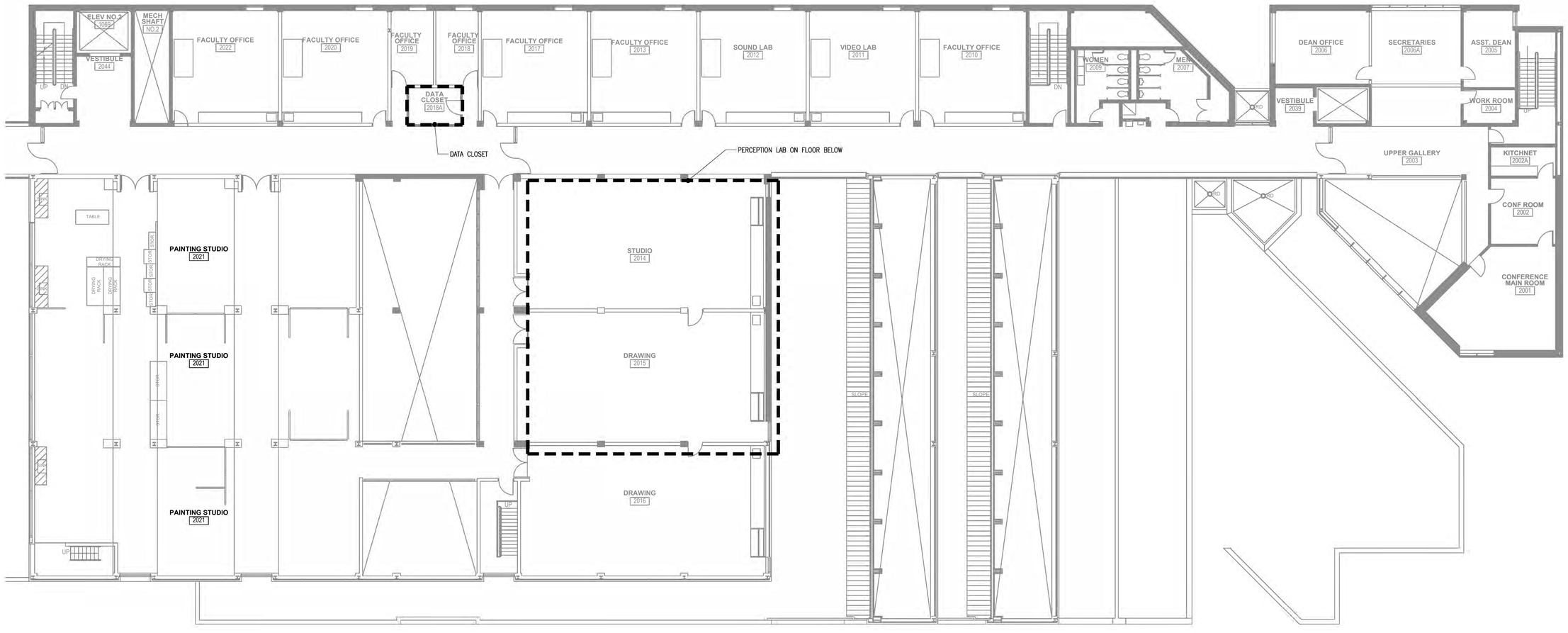
SU-021119

DRAWING NAME
ELECTRICAL VISUAL ARTS BUILDING NORTH FIRST FLOOR PLAN

DRAWING NO.
E-002



1 VISUAL ARTS BUILDING NORTH SECOND FLOOR PLAN

SCALE: 3/32" = 1'-0"

NOTE: ALL DATA CABLES SHALL BE PROVIDED FROM DATA CLOSET ON SECOND FLOOR TO PERCEPTION LAB ON FIRST FLOOR. EXISTING IT INFRASTRUCTURE IS ALREADY IN PLACE, CONTRACTOR ONLY NEEDS TO PROVIDE CAT6 CABLING.

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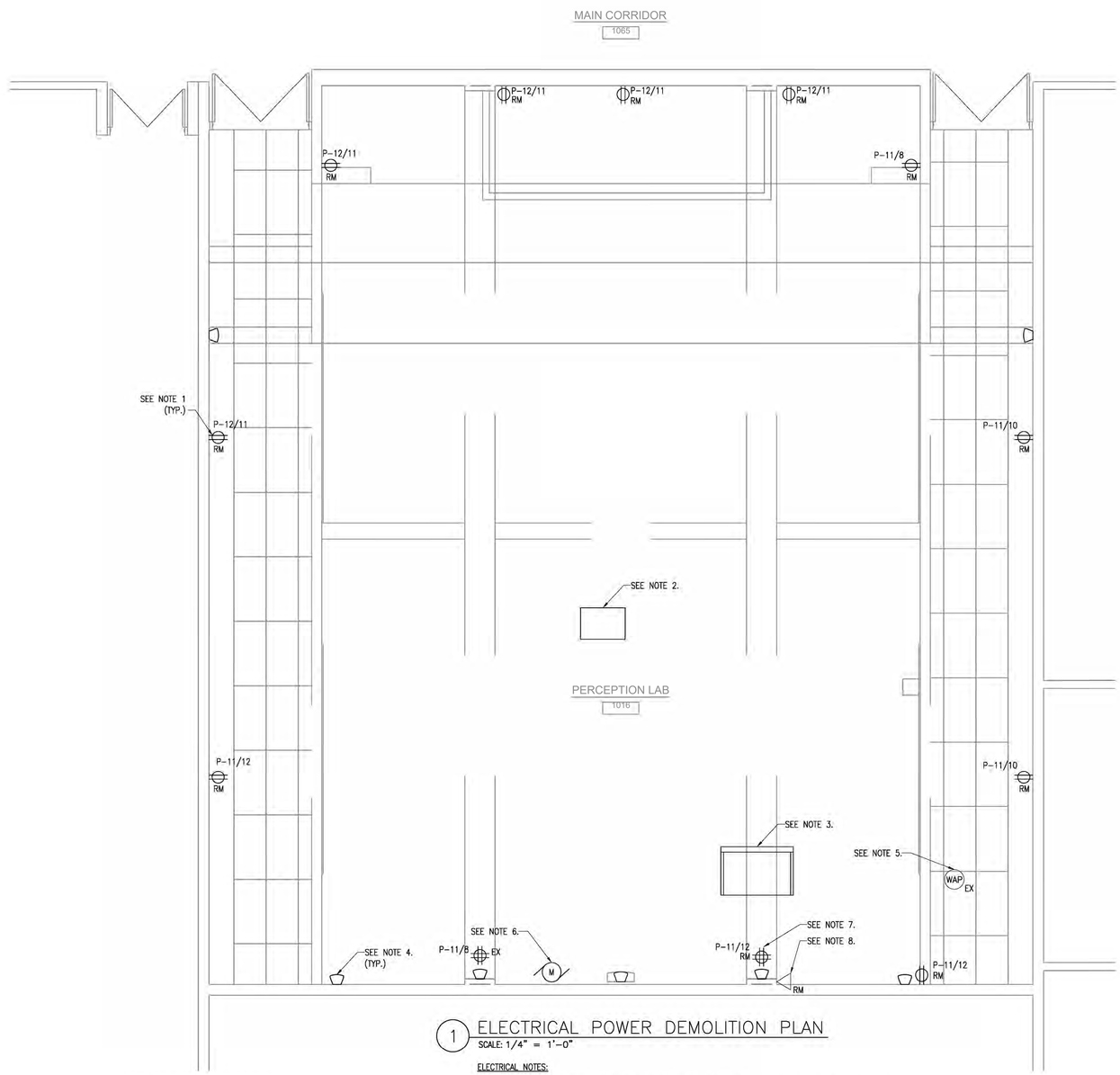
DRAWING NAME

ELECTRICAL VISUAL ARTS BUILDING NORTH SECOND FLOOR PLAN

DRAWING NO.

E-003



1 ELECTRICAL POWER DEMOLITION PLAN

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

NOTE: RECEPTACLE CIRCUITS IDENTIFIED ARE FOR REFERENCE ONLY.

ELECTRICAL NOTES:

1. REMOVE EXISTING RECEPTACLE WITH ASSOCIATED WIRING. PROVIDE A JUNCTION BOX OUTSIDE AREA OF WORK AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE AFFECTED CIRCUITS CONTINUOUS. CIRCUITS TO BE EXTENDED TO NEW RECEPTACLES. SEE DRAWING E-101 FOR NEW RECEPTACLE LAYOUT.
2. EXISTING CEILING-MOUNTED PROJECTOR TO BE REMOVED UNDER SUPERVISION OF CAMPUS TECHNOLOGY SERVICES DEPARTMENT. PULL BACK ALL ASSOCIATED LOW-VOLTAGE AND POWER CONNECTIONS FROM PROJECTOR TO ACCOMMODATE CEILING WORK. THESE SHALL REMAIN FOR RE-INSTALLATION BY OTHERS.
3. EXISTING PODIUM TO BE DISCONNECTED BY CAMPUS AND REMOVED BY OTHERS.
4. EXISTING WALL-MOUNTED SPEAKER TO BE REMOVED UNDER SUPERVISION OF CAMPUS TECHNOLOGY SERVICES DEPARTMENT. DISCONNECT AND REMOVE ALL ASSOCIATED WIRING.
5. EXISTING CEILING-MOUNTED WIRELESS ACCESS POINT TO BE REMOVED UNDER SUPERVISION OF CAMPUS TECHNOLOGY SERVICES DEPARTMENT. DISCONNECT ALL CONNECTIONS FROM WIRELESS ACCESS POINT AND REMOVE ASSOCIATED WIRING AND CONDUIT FROM CEILING TO ACCOMMODATE CEILING WORK.
6. EXISTING MOTORIZED SCREEN TO BE REMOVED. DISCONNECT POWER CONNECTIONS AND PRESERVE FOR RE-USE.
7. REMOVE QUAD RECEPTACLE BEHIND PODIUM. EXISTING BOX AND WIRING TO REMAIN.
8. REMOVE DATA OUTLET. CABLING SHALL BE RE-ROUTED TO NEW JUNCTION BOX (REFER TO NOTE 9, DRAWING E-101).

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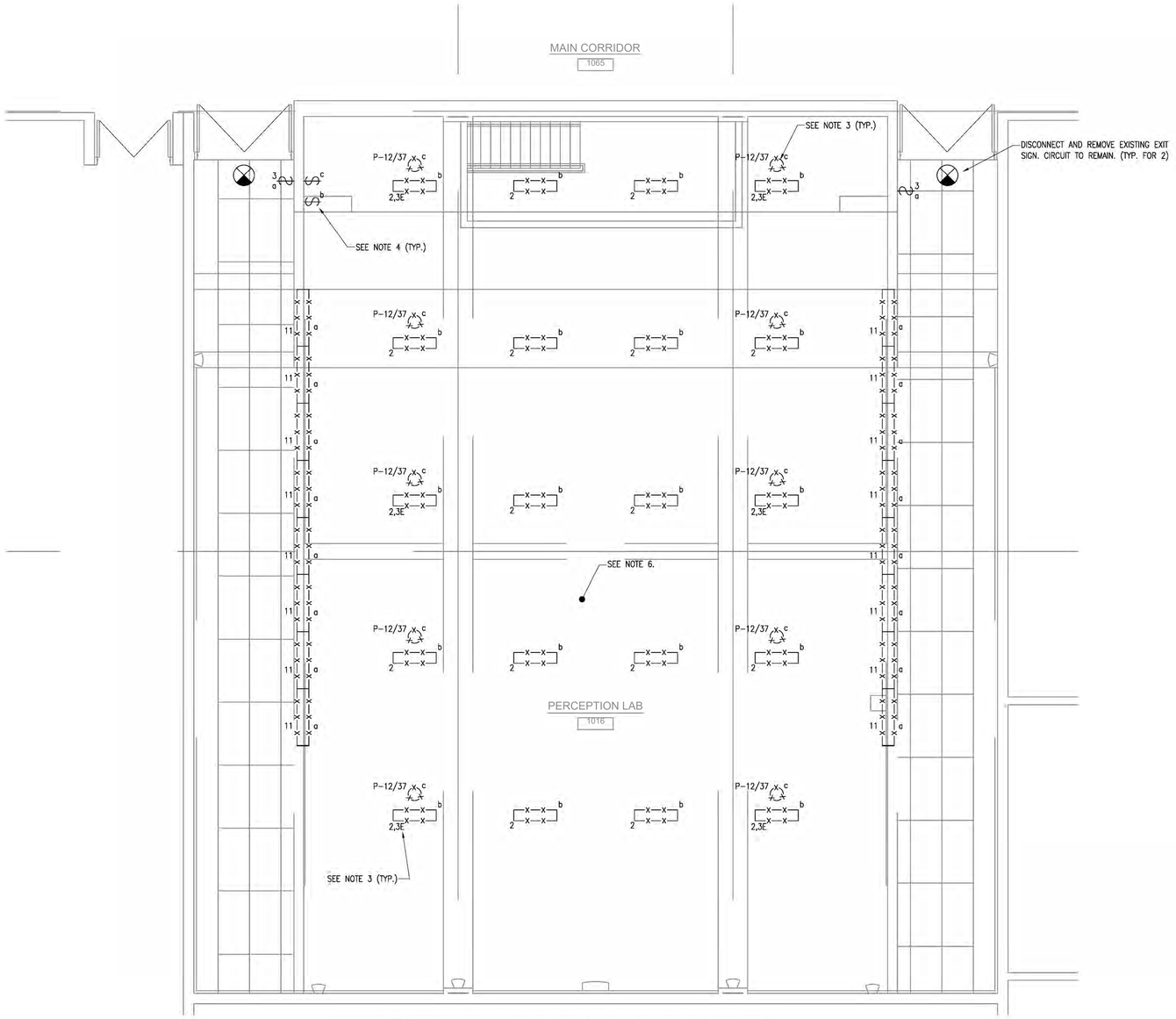
DRAWING NAME

ELECTRICAL DEMOLITION PLAN

DRAWING NO.

ED-101



1 ELECTRICAL LIGHTING DEMOLITION PLAN

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

ELECTRICAL NOTES:

1. ALL EXISTING CIRCUITS ARE CONNECTED TO PANEL L-12 UNLESS OTHERWISE NOTED.
2. REMOVE ALL LIGHT FIXTURES INDICATED. RETAIN EXISTING 277V CIRCUITING (L-12/2, L-12/11) FOR INSTALLATION OF NEW FIXTURES.
3. FIXTURE IS ALSO CONNECTED TO EMERGENCY POWER CIRCUIT (EL-N/3). DISCONNECT THIS CIRCUIT AND RETAIN FOR FUTURE USE. (TYPICAL FOR 6 FIXTURES)
4. REMOVE EXISTING LIGHT SWITCHES WITH ASSOCIATED BOXES, WIRING, AND CONDUIT.
5. EXISTING 120V CIRCUIT (P-12/37) FEEDS LIGHT FIXTURES WHICH ARE NO LONGER USED. REMOVE LIGHT FIXTURES AND RETAIN CIRCUIT FOR USE AS RECEPTACLE CIRCUIT (REFER TO E-101).
6. ALL EXISTING WIRING AND CONDUIT SHALL BE REMOVED FROM CEILING TO ACCOMMODATE CEILING WORK. CIRCUITS SHALL BE REMOVED TO NEAREST LOCATION OUTSIDE AREA OF WORK AND SHALL REMAIN FOR EXTENSION TO NEW LIGHTING.

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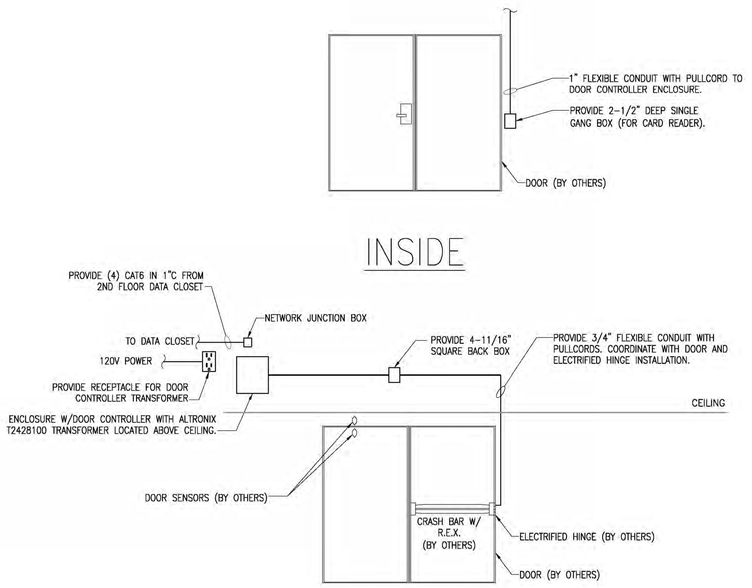
DRAWING NAME

ELECTRICAL LIGHTING DEMOLITION PLAN

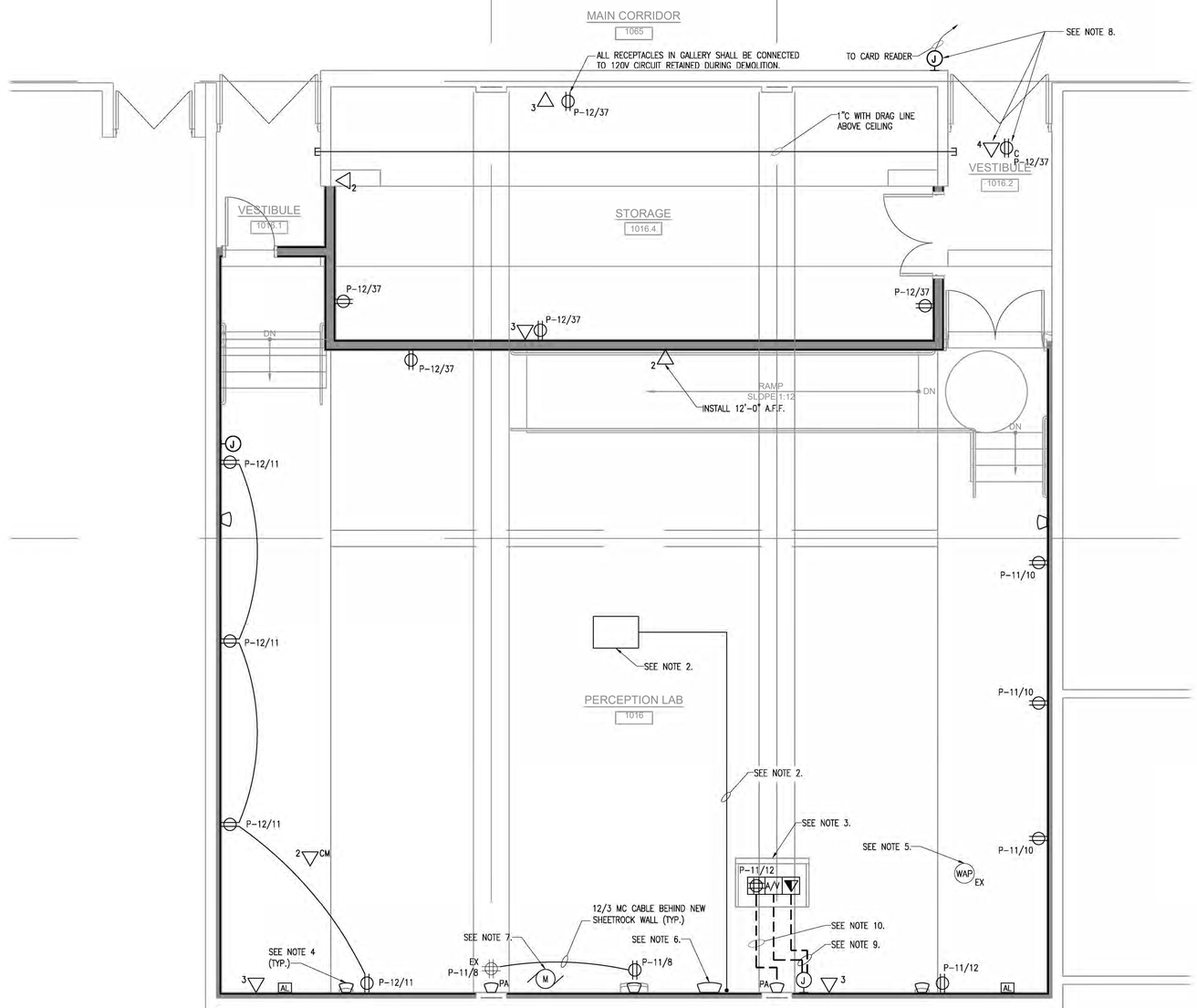
DRAWING NO.

ED-102



2 ELECTRICAL DOOR CONTROL WIRING DIAGRAM

SCALE: N.T.S.



1 ELECTRICAL POWER PLAN

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

ELECTRICAL NOTES:

1. ALL NEW RECEPTACLES SHALL BE FLUSH WITH NEW EXTENDED SHEETROCK WALL.
2. NEW CEILING-MOUNTED PROJECTOR TO BE RE-INSTALLED BY OTHERS. RE-EXTEND POWER WIRING AND CONDUIT DISCONNECTED DURING DEMOLITION AND PROVIDE NEW RECEPTACLE. ALSO PROVIDE (2) JUNCTION BOXES AT CEILING ABOVE PROJECTOR AND (2) JUNCTION BOXES ADJACENT TO PODIUM WITH 1" EMPTY CONDUIT CONNECTING EACH SET OF JUNCTION BOXES.
3. NEW PODIUM SPECIFIED BY A/V CONTRACTOR AND INSTALLED BY CAMPUS. EXTEND POWER AND LOW-VOLTAGE CONNECTIONS TO PODIUM.
4. NEW WALL-MOUNTED SPEAKER. COORDINATE EXACT LOCATION WITH CAMPUS. PROVIDE 1"C WITH DRAG LINE FROM EACH SPEAKER TO DATA OUTLET BOX ON COLUMN BEHIND PODIUM. SEE NOTE 9 ON THIS DRAWING. REFER TO DETAIL 1/DWG E-200 FOR MORE INFORMATION.
5. EXISTING CEILING-MOUNTED WIRELESS ACCESS POINT TO BE RE-INSTALLED, UNDER SUPERVISION OF CAMPUS TECHNOLOGY SERVICES DEPARTMENT. RE-EXTEND ALL ASSOCIATED WIRING AND CONDUIT.
6. NEW SUBWOOFER INSTALLED BY CAMPUS. PROVIDE 1"C WITH DRAG LINE TO PODIUM. COORDINATE EXACT LOCATIONS WITH CAMPUS.
7. EXISTING MOTORIZED SCREEN TO BE RE-INSTALLED. RE-EXTEND ALL ASSOCIATED WIRING AND CONDUIT (PROVIDE EXTENSION BOX AS NECESSARY).
8. COORDINATE DOOR CONTROL EQUIPMENT LOCATIONS ABOVE VESTIBULE CEILING WITH ACCESS PANEL INSTALLATION TO ENSURE SERVICEABILITY. REFER TO DETAIL 2 ON THIS DRAWING FOR DOOR CONTROL WIRING DIAGRAM.
9. PROVIDE FLUSH JUNCTION BOX FOR ALL DATA AND A/V CABLING TO PODIUM. (1) 1-1/2"C AND (1) 1-1/4"C FROM NEW JUNCTION BOX SHALL TRAVEL UNDER FLOOR SLAB TO POKE-THRU DEVICE BENEATH PODIUM. REFER TO DETAILS 1, 2 AND 3/DWG E-200 FOR MORE INFORMATION.
10. EXTEND WIRING AND CONDUIT (2#12 + 1#12G IN 3/4"C) FROM POWER JUNCTION BOX RETAINED DURING DEMOLITION BELOW FLOOR SLAB TO POKE-THRU DEVICE BENEATH PODIUM. REFER TO DETAILS 2 AND 3/DWG E-200 FOR MORE INFORMATION.

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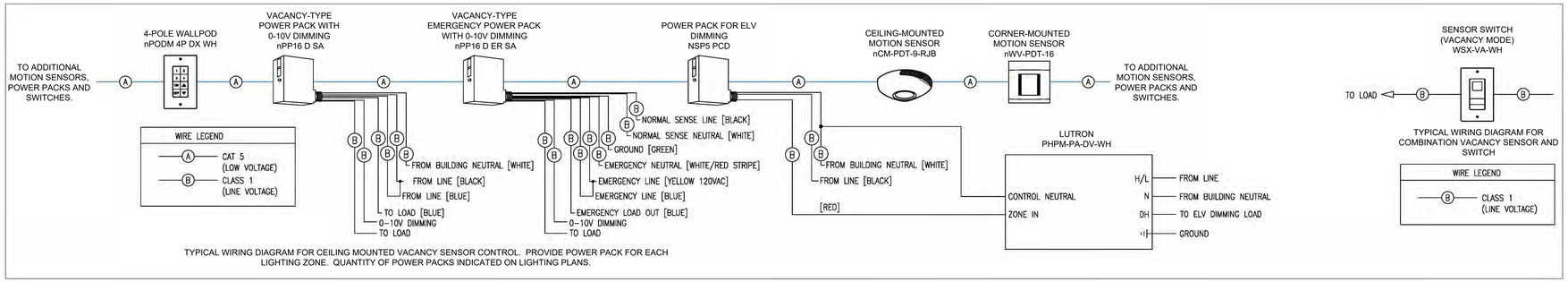
DRAWING NAME
ELECTRICAL POWER/DATA PLAN

DRAWING NO.
E-101



TYPICAL WIRING DIAGRAM FOR CEILING MOUNTED VACANCY SENSOR CONTROL. PROVIDE POWER PACK FOR EACH LIGHTING ZONE. QUANTITY OF POWER PACKS INDICATED ON LIGHTING PLANS.

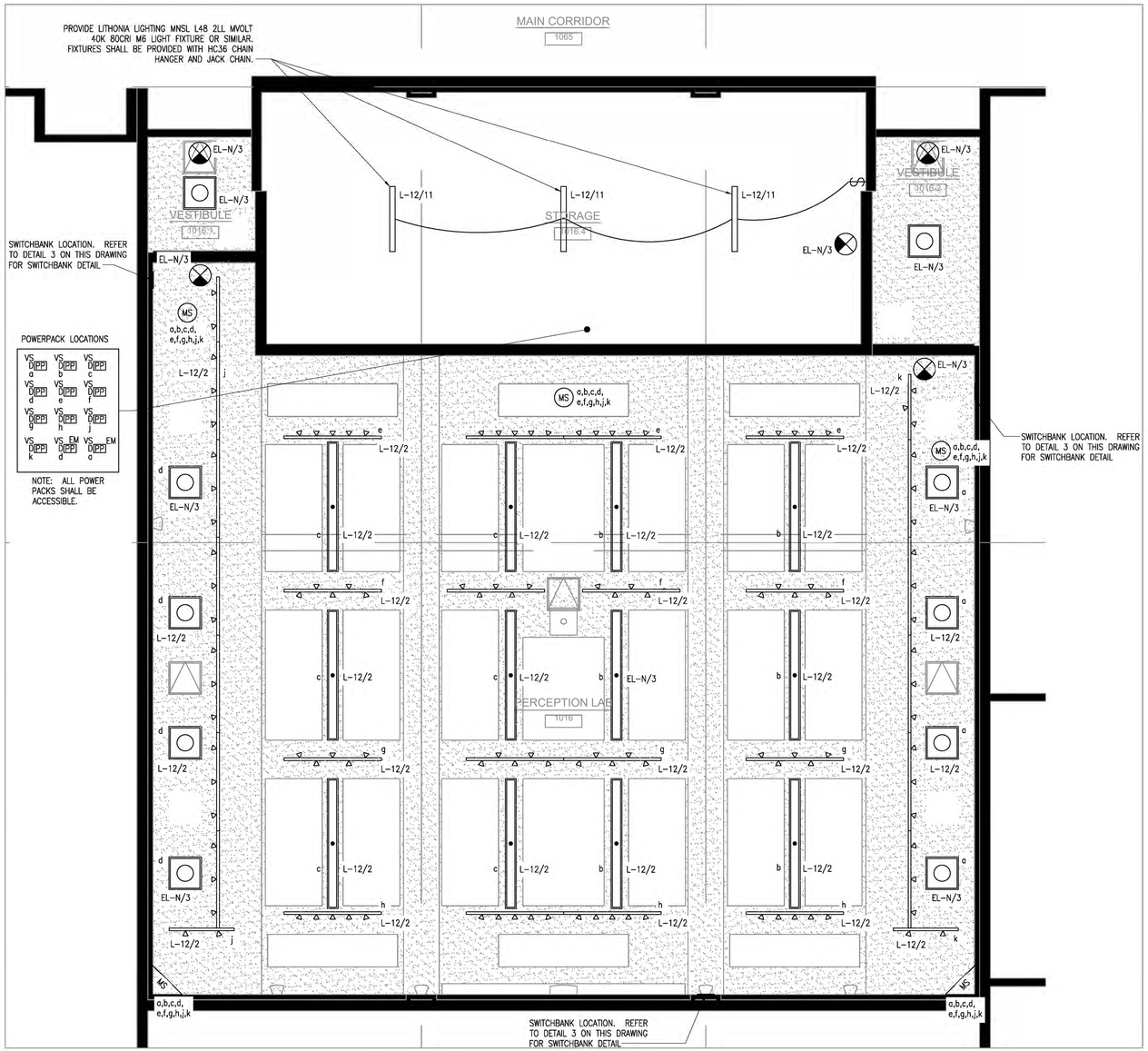
TYPICAL WIRING DIAGRAM FOR COMBINATION VACANCY SENSOR AND SWITCH

2 LIGHTING CONTROLS TYPICAL WIRING DIAGRAM
SCALE: N/A

$^{4P}_{D}$a,b,c,d $^{4P}_{D}$e,f,g,h $^{2P}_{D}$j,k

3 SWITCHBANK DETAIL
SCALE: N/A

DEDUCT ALTERNATE #1
DISREGARD INDICIATED LIGHTING LAYOUT IN GALLERY AND STORAGE ROOM. INSTEAD, PROVIDE TEMPORARY LIGHTING AS FOLLOWS:
PROVIDE LITHONIA LIGHTING MNSL L48 2LL MVOLT 40K 80CRI M6 OR SIMILAR.
IN STORAGE SPACE, PROVIDE (1) FIXTURE.
IN GALLERY SPACE, PROVIDE (3) FIXTURES TO PROVIDE EVEN ILLUMINATION IN SPACE.
FIXTURES SHALL BE PROVIDED WITH HC36 CHAIN HANGER AND JACK CHAIN.
PROVIDE EXIT SIGN AS INDICATED, AND UTILIZE LOW VOLTAGE SWITCHES AS INDICATED.
CONNECT FIXTURES TO CIRCUIT L-12/11. CEILING MOTION SENSORS SHALL NOT BE INSTALLED.



1 ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"

NOTE: ALL CONDUITS SHALL BE CONCEALED WITHIN NEW GYPSUM BOARD AND HUNG CEILINGS.

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PROJECT
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REVISIONS

REV	DATE	DESCRIPTION / COMMENTS
	2/3/2020	ISSUED FOR BID

SEAL

ISSUED FOR: BID & PERMIT
ISSUED DATE: 09.11.2019

DRAWN BY: AR
CHECKED BY: DC
PROJECT NUMBER: 20076
SU-021119

DRAWING NAME
ELECTRICAL LIGHTING PLAN

DRAWING NO.
E-102

PANEL NO. P-11 SECTION 1 — EXISTING PANEL — ☐RECESSED ☐SURFACE MOUNTED — ☐MAIN LUG ONLY ☐MAIN CB ☐FEED THRU LUG — REV. DATE
VOLTS 120/208 PH 3 W 4 G 1
MAIN CB ____ BUS ____ MIN. INTERRUPTING RATING ____ SYMM.

CKT NO.	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (AMPS)	PER PHASE AMPS A	B	C	LOAD (AMPS)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT NO.	
1	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	2	
3	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	20	4	
5	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	6	
7	20	EXISTING CIRCUIT	0	7.5			7.5	PERCEPTION LAB RECEPTACLES	20	8	1
9	20	EXISTING CIRCUIT	0		9		9	PERCEPTION LAB RECEPTACLES	20	10	1
11	20	EXISTING CIRCUIT	0			12	12	PERCEPTION LAB RECEPTACLES	20	12	1
13	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	14	
15	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	20	16	
17	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	18	
19	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	20	
21	100	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	20	22	
23			0			0	0	EXISTING CIRCUIT	20	24	
				7.5	9	12					

PANEL NO. P-12 SECTION 1 — EXISTING PANEL — ☐RECESSED ☐SURFACE MOUNTED — ☐MAIN LUG ONLY ☐MAIN CB ☐FEED THRU LUG — REV. DATE
VOLTS 120/208 PH 3 W 4 G 1
MAIN CB ____ BUS ____ MIN. INTERRUPTING RATING ____ SYMM.

CKT NO.	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (AMPS)	PER PHASE AMPS A	B	C	LOAD (AMPS)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT NO.	
1	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	2	
3	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	20	4	
5	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	6	
7	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	8	
9			0		0		0			10	
11	20	PERCEPTION LAB RECEPTACLES	9			9	0	EXISTING CIRCUIT	20	12	1
13	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	14	
15	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	20	16	
17	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	30	18	
				0	0	9					

PANEL NO. P-12 SECTION 2 — EXISTING PANEL — ☐RECESSED ☐SURFACE MOUNTED — ☐MAIN LUG ONLY ☐MAIN CB ☐FEED THRU LUG — REV. DATE
VOLTS 120/208 PH 3 W 4 G 1
MAIN CB ____ BUS ____ MIN. INTERRUPTING RATING ____ SYMM.

CKT NO.	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (AMPS)	PER PHASE AMPS A	B	C	LOAD (AMPS)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT NO.	
17	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	18	
19	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	20	20	
21	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	22	
23	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	24	
25	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	20	26	
27	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	28	
29	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	30	
31	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	20	32	
33	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	34	
35	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	36	
37	20	PERCEPTION LAB/STORAGE RECEPTACLES	10.5		10.5		0	EXISTING CIRCUIT	20	38	2
39	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	40	
41	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	42	
43	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	20	44	
45	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	46	
47	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	48	
49	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	20	50	
51	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	52	
53	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	54	
55	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	100	56	
57	20	EXISTING CIRCUIT	0			0	0			58	
				0	10.5	0					

PANEL NO. L-11 SECTION ____ — ☐RECESSED ☐SURFACE MOUNTED — ☐MAIN LUG ONLY ☐MAIN CB ☐FEED THRU LUG — REV. DATE
VOLTS 277/480 PH 3 W 4 G 1
MAIN CB ____ BUS ____ MIN. INTERRUPTING RATING ____ SYMM.

CKT NO.	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (AMPS)	PER PHASE AMPS A	B	C	LOAD (AMPS)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT NO.
1	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	2
3	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	20	4
5	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	6
7	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT		8
9	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	100	10
11	20	EXISTING CIRCUIT	0			0	0			12
13	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	14
15	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT		16
17	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	100	18
19	20	EXISTING CIRCUIT	0	0			0			20
				0	0	0				

PANEL NO. L-12 SECTION ____ — ☐RECESSED ☐SURFACE MOUNTED — ☐MAIN LUG ONLY ☐MAIN CB ☐FEED THRU LUG — REV. DATE
VOLTS 277/280 PH 3 W 4 G 1
MAIN CB ____ BUS ____ MIN. INTERRUPTING RATING ____ SYMM.

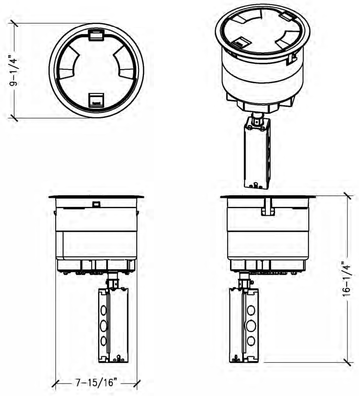
CKT NO.	TRIP (AMPS)	DESCRIPTION OF LOAD	LOAD (AMPS)	PER PHASE AMPS A	B	C	LOAD (AMPS)	DESCRIPTION OF LOAD	TRIP (AMPS)	CKT NO.	
1	20	EXISTING CIRCUIT	0	8.8			8.8	PERCEPTION LAB LIGHTING	20	2	2
3	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	20	4	
5	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	6	
7	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	8	
9	20	EXISTING CIRCUIT	0		0		0	EXISTING CIRCUIT	20	10	
11	20	PERCEPTION LAB/STORAGE LIGHTING	2.2			2.2	0	EXISTING CIRCUIT	20	12	2
13	20	EXISTING CIRCUIT	0	0			0	EXISTING CIRCUIT	20	14	
15	20	EXISTING CIRCUIT	0		0		0	SPACE		16	
17	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	18	
19	20	EXISTING CIRCUIT	0	0			0			20	
21		SPACE	0		0		0	EXISTING CIRCUIT	20	22	
23		SPACE	0			0	0			24	
25		SPACE	0	0			0	SPACE		26	
				8.8	0	2.2					

PANEL SCHEDULE NOTE:

PANEL SCHEDULES SHOWN FOR INFORMATIONAL PURPOSES ONLY

PANEL SCHEDULE KEY NOTES

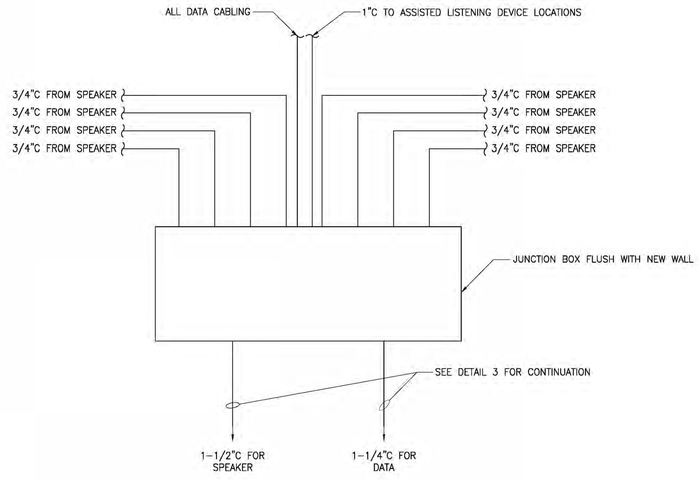
1. REUSE EXISTING CIRCUIT TO FEED NEW RECEPTACLES IN PERCEPTION LAB.
2. REUSE EXISTING LIGHTING CIRCUIT TO FEED NEW RECEPTACLES IN GALLERY.



2 ELECTRICAL POKE-THRU DETAIL 2

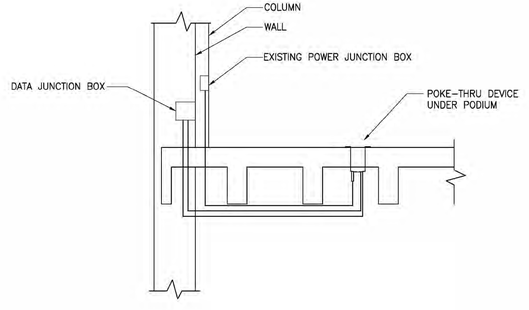
SCALE: N/A

NOTE: REFER TO SYMBOLS LIST FOR SPECS.



1 ELECTRICAL POKE-THRU DETAIL 1

SCALE: N/A



3 ELECTRICAL POKE-THRU DETAIL 3

SCALE: N/A

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PROJECT
SUNY PURCHASE COLLEGE
VISUAL ARTS PERCEPTION LAB RENOVATION
735 ANDERSEN HILL RD
PURCHASE, NY 10577

REVISIONS

REV	DATE	DESCRIPTION / COMMENTS
	2/3/2020	ISSUED FOR BID

SEAL

ISSUED FOR: BID & PERMIT
ISSUED DATE: 09.11.2019

DRAWN BY: AR
CHECKED BY: DC

PROJECT NUMBER: 20076
SU-021119

DRAWING NAME
ELECTRICAL PANEL SCHEDULES AND DETAILS

DRAWING NO.
E-200

ELECTRICAL WORK

1. GENERAL:

A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE ARE PART OF THIS CONTRACT.

B. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.

C. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF CONDUIT TO AVOID OBSTRUCTIONS. COORDINATION WITH EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES, IS REQUIRED. MAINTAIN HEADROOM AND SPACE CONDITIONS.

D. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.

E. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK MAY BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES AND CHARGES IN MAKING UP THE WORK PROPOSAL.

F. CONNECTIONS TO EXISTING WORK: INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS OF EXISTING SERVICES SHALL BE PERFORMED AT NO ADDITIONAL CHARGES, AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES AND ONLY WITH WRITTEN CONSENT OF OWNER. ALARM AND EMERGENCY SYSTEMS SHALL NOT BE INTERRUPTED. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.

G. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW WORK.

H. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.

I. SEAL OPENINGS THROUGH PARTITIONS, WALLS AND FLOORS WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL.

J. ALL EXISTING MATERIAL, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY THE BUILDING REPRESENTATIVE, ARCHITECT OR AS NOTED TO BE RELOCATED ON THE DRAWINGS. REMOVED EQUIPMENT SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.

K. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK DURING OVERTIME HOURS AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.

L. UNLESS OTHERWISE SPECIFICALLY NOTED OR SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.

M. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.

N. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO INDICATE ANY DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS PRIOR TO SUBMITTAL OF BID. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING CONDUIT (SIZES, CLEARANCES, ETC) AND CONDITIONS.

O. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.

P. THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.

2. SCOPE OF WORK:

A. SCOPE OF WORK SHALL CONSIST OF PROVIDING LABOR, MATERIALS, EQUIPMENT, SERVICES AND FEES NECESSARY FOR COMPLETE AND SAFE INSTALLATION IN CONFORMITY WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL OTHER APPLICABLE INDUSTRY, NATIONAL AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.

B. ALL DRAWINGS, PLANS, DETAILS, SPECIFICATIONS AND SPECIFICATION ADDENDA ARE MADE PART OF THIS CONTRACT AND SHALL APPLY TO ALL WORK UNDER THE CONTRACT UNLESS OTHERWISE AMENDED, MODIFIED, SUPPLEMENTED OR SPECIFIED HEREIN.

C. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OR ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.

D. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH ALL DEPARTMENTS HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.

3. SHOP DRAWINGS

A. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT, CONTRACTOR SHALL PROVIDE COMPLETE SETS OF COORDINATED SHOP DRAWINGS OF ALL NEW AND EXISTING EQUIPMENT, INDICATING CAPACITY, DIMENSIONS AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.

B. INDICATE ON EACH SHOP DRAWINGS SUBMITTED:

1) PROJECT NAME AND LOCATION
2) NAME OF ARCHITECT AND ENGINEER
3) ITEM IDENTIFICATION
4) APPROVAL STAMP OF PRIME CONTRACTOR

C. SUBMISSIONS:

1) CONTRACTOR SHALL SUBMIT A PDF OR TIFF FILE TO ARCHITECT THROUGH PREVIOUSLY DISCUSSED AND APPROVED METHOD (EMAIL, SUBMITTAL EXCHANGE PROGRAM, ETC). SUBMITTAL WILL THEN BE FORWARDED TO RELEVANT PARTIES FOR REVIEW.
2) UNLESS OTHERWISE DISCUSSED & AGREED, PROVIDE ALL EQUIPMENT SUBMITTALS AND SHOP DRAWINGS AT ONE TIME, THE SAME TIME; AT LEAST, THREE WEEKS BEFORE A RESPONSE IS REQUIRED.
3) PROVIDE A SEPARATE TRANSMITTAL FOR EACH SUBMITTAL ITEM. TRANSMITTALS SHALL INDICATE PRODUCT BY SPECIFICATION SECTION NAME AND NUMBER. SEPARATE ALL SUBMITTALS INTO APPROPRIATE SPECIFICATION SECTION NUMBER. DO NOT COMBINE SPECIFICATION SECTIONS.
4) DO NOT SUBMIT ENTIRE MANUFACTURER'S CATALOG; IT WILL NOT BE REVIEWED. SUBMIT ONLY PAGES WHICH ARE PERTINENT TO THE PROJECT. ALL OPTIONS WHICH ARE INDICATED ON THE PRODUCT DATA SHALL BECOME PART OF THE CONTRACT AND SHALL BE REQUIRED WHETHER SPECIFIED ARE NOT.
5) MARK EACH COPY OF STANDARD PRINTED DATA TO IDENTIFY PERTINENT PRODUCTS, REFERENCED TO SPECIFICATION SECTION AND ARTICLE NUMBER.
6) SHOW REFERENCE STANDARDS, PERFORMANCE CHARACTERISTICS AND CAPACITIES; WIRING AND PIPING DIAGRAMS AND CONTROLS; COMPONENT PARTS; FINISHES; DIMENSIONS AND REQUIRED CLEARANCES.
7) MODIFY MANUFACTURER'S STANDARD SCHEMATIC DRAWINGS AND DIAGRAMS TO SUPPLEMENT STANDARD INFORMATION AND TO PROVIDE INFORMATION SPECIFICALLY APPLICABLE TO THE WORK. DELETE INFORMATION NOT APPLICABLE.
8) THE ENGINEER WILL REVIEW THE ORIGINAL SUBMITTAL AND ONE RESUBMITTAL FOR THE SAME PRODUCT. ADDITIONAL RESUBMITTALS WILL BE REVIEW ON A HOURLY RATE, PAYABLE BY THE CONTRACTOR.
9) PARTIAL SUBMITTALS OR SUBMITTALS NOT PROPERLY FORMATTED AS INDICATED ABOVE, ARE SUBJECT TO RETURN WITHOUT REVIEW FOR THE CONTRACTOR TO CORRECT.

D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:

1) WIRE AND CABLE
2) WALL SWITCHES
3) INSERTION RECEPTACLES
4) LIGHTING FIXTURES.

4. AS-BUILT DRAWINGS AND EQUIPMENT OPERATIONAL INSTRUCTIONS

A. UPON COMPLETION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.

B. THESE INSTRUCTIONS SHALL BE TYPED ON 8-1/2 IN. X 11 IN. PAPER AND BOUND IN THREE RING BINDERS WITH CLEAR ACETATE COVERS. CONTRACTOR SHALL GIVE THREE COPIES OF THE INSTRUCTIONS TO THE OWNER AND ONE COPY TO THE ENGINEER.

C. THE INSTRUCTION BOOKLET SHALL BEAR THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PROJECT, ARCHITECT AND ENGINEER.

D. REPRODUCIBLE "AS-BUILT" DRAWINGS SHALL BE PROVIDED INDICATING THE AS INSTALLED CONDITIONS OF THE WORK. "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF THE INSTALLATION.

5. GENERAL PROVISIONS FOR ELECTRICAL WORK:

A. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES. WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.

B. DEFINITIONS:

1) "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.
2) "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.
3) "FURNISH" OR "SUPPLY: TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.
4) "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.
5) "WIRING": RACEWAY, FITTINGS, WIRE, BOXES AND RELATED ITEMS.
6) "CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES, OR IN ENCLOSURES.
7) "EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.
8) "SIMILAR" OR "EQUAL": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.

C. TEMPORARY LIGHT AND POWER: PROVIDE TEMPORARY LIGHT AND POWER SYSTEMS AT EARLIEST POSSIBLE DATE WITHIN THE CONSTRUCTION AREAS FOR THE REQUIREMENTS OF ALL TRADES AS HEREIN DESCRIBED. EXTEND SYSTEMS TO NEW CONSTRUCTION AS SOON AS PHYSICALLY POSSIBLE. MAINTAIN SYSTEM DURING WORKING HOURS OF ALL TRADES. COST OF ENERGY WILL BE PAID FOR BY OWNER. PROVIDE ALL REQUIRED MAINTENANCE, INCLUDING LAMPS AND SOCKETS.

D. QUALITY ASSURANCE

1) QUALITY AND GAUGE OF MATERIALS: NEW, BEST OF THEIR RESPECTIVE KINDS, FREE FROM DEFECTS AND LISTED BY UNDERWRITERS LABORATORIES, INC., OR OTHER NATIONALLY APPROVED TESTING AGENCY AND BEARING THEIR LABEL. MATERIALS AND EQUIPMENT OF SIMILAR APPLICATION SHALL BE OF SAME MANUFACTURER, EXCEPT AS NOTED.
2) GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AS DEFINED IN PARAGRAPH 2.C.
3) CURRENT CHARACTERISTICS:
   a. DISTRIBUTION: 277/480 VOLT (AND 120/208 VOLT), 3 PHASE, 4 WIRE, 60 HERTZ WITH GROUNDED NEUTRAL.
4) HEIGHTS OF OUTLETS: FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS FOR:
   a. RECEPTACLES: 1 FT-6 IN.
   b. WALL SWITCHES: 4 FT-0 IN.

   EXCEPTIONS: AT JUNCTION OF DIFFERENT WALL FINISH MATERIALS, ON MOLDING OR BREAK IN WALL SURFACE, IN VIOLATION OF CODE, OR AS NOTED OR DIRECTED.

E. PRODUCT DELIVERY, STORAGE AND HANDLING

1) ACCESSIBILITY: FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS SHALL BE PERMITTED. CHANGES OF MAGNITUDE OR INVOLVING EXTRA COST ARE NOT PERMISSIBLE WITHOUT REVIEW. GROUP CONCEALED ELECTRICAL EQUIPMENT REQUIRING ACCESS WITH EQUIPMENT FREELY ACCESSIBLE THROUGH ACCESS DOORS.

F. MATERIALS

1) CABLE TAGS: TAG EACH CONDUCTOR PASSING THROUGH SPLICE OR PULLBOX WITH A WHITE LINEN TAG, INDICATING POINT OF ORIGIN AND TERMINATION OF THE CIRCUIT.
2) INSERTS AND SUPPORTS:
   a. INSERTS: STEEL, SLOTTED TYPE, FACTORY PAINTED.
   - SINGLE ROD: SIMILAR TO GRINNELL FIG. 281.
   - MULTI-ROD: SIMILAR TO FEE AND MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS.
   - CLIP FORM NAILS FLUSH WITH INSERTS.
   - MAXIMUM LOADING 75 PERCENT OF RATING.
   b. SUPPORTS FROM BUILDING CONSTRUCTION: INSERTS, BEAM CLAMPS, STEEL FISHPLATES (IN CONCRETE FILL ONLY), CANTILEVER BRACKETS OR OTHER MEANS. SUBMIT FOR REVIEW.
   c. WHERE BUILDING CONSTRUCTION IS INADEQUATE: PROVIDE ADDITIONAL FRAMING. SUBMIT FOR REVIEW.

G. PAINT SHALL BE THE BEST GRADE FOR ITS PURPOSE. DELIVER IN ORIGINAL SEALED CONTAINERS AND APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COLORS SHALL BE AS SELECTED BY ARCHITECT OR ENGINEER. UTILIZE GALVANIZED IRON PRIMER ON PULL BOXES, AFTER FABRICATION. UTILIZE HOT DIPPED GALVANIZED OR DIPPED IN ZINC BASED PRIMER FOR: OUTLET BOXES, JUNCTION BOXES, CONDUIT HANGERS, RODS, INSERTS AND SUPPORTS. ZINC BASED PRIMER WITH FINISH TO MATCH SURROUNDINGS SHALL BE USED FOR MARRED SURFACES OF STEEL EQUIPMENT AND RACEWAYS. A FIELD-APPLIED ZINC BASED PRIME COAT SHALL BE UTILIZED FOR STEEL OR IRONWORK.

H. BRUSH AND CLEAN WORK PRIOR TO CONCEALING, PAINTING AND ACCEPTANCE. PAINTED EXPOSED WORK SOILED OR DAMAGED; CLEAN AND REPAIR TO MATCH ADJOINING WORK BEFORE FINAL ACCEPTANCE. REMOVE DEBRIS FROM INSIDE AND OUTSIDE OF MATERIAL AND EQUIPMENT.

I. FINAL LOCATIONS AND MOUNTING ORIENTATIONS OF ALL SWITCHES, RECEPTACLES AND LIGHT FIXTURES SHALL BE VERIFIED WITH ARCHITECT.

J. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.

6. RACEWAYS:

F. PROVIDE RACEWAYS COMPLETE WITH BOXES, FITTINGS AND ACCESSORIES. CONDUIT OR TUBING SIZES REFERRED TO IN SPECIFICATIONS AND ON DRAWINGS ARE NOMINAL DIAMETERS. MINIMUM DIAMETER SHALL BE 3/4 IN.

G. MATERIALS

1) RACEWAYS:
   a. ELECTROMETALLIC TUBING (EMT): THIN WALL PIPE, GALVANIZED, THREADLESS.
   b. FLEXIBLE STEEL CONDUIT: CONTINUOUS SINGLE STRIP, GALVANIZED.
2) FITTINGS AND ACCESSORIES:
   a. ELECTROMETALLIC TUBING: COMPRESSION TYPE. GALVANIZED RIGID STEEL ELBOWS, 2 IN. OR LARGER.
   b. FLEXIBLE METALLIC CONDUIT: ANGLE WEDGE TYPE WITH INSULATED THROAT.
   c. BUSHINGS: METALLIC INSULATED TYPE.
3) BOXES:
   a. OUTLET BOXES: EXCEPT AS OTHERWISE REQUIRED BY CONSTRUCTION, DEVICES OR WIRING, BOXES SHALL BE STAMPED STEEL, 4 IN. SQUARE OR OCTAGON FOR FIXTURES. BOXES ABOVE CEILING SHALL BE 1-1/2 IN. DEEP. BOXES IN CEILING OR SLAB SHALL BE 3 IN. DEEP. BOXES IN WALL FOR FIXTURES SHALL BE 2-3/4 IN. DEEP. FURNISH WITH RAISED COVERS AND FIXTURE STUDS WHERE REQUIRED. WITHOUT FIXTURE OR DEVICE: FURNISH BLANK COVER. JUNCTION AND PULL BOXES: GALVANIZED SHEET STEEL WITH SCREW-ON COVERS, EXCEPT AS NOTED. FURNISH WITH INSULATED SUPPORTS FOR CABLES. LOCATIONS SHALL BE AS NOTED OR REQUIRED AND ACCESSIBLE. PROVIDE BARRIERS IN NEW AND RENOVATED BOXES BETWEEN 120/208 VOLT AND 277/480 VOLT WIRING AND BETWEEN EMERGENCY AND NORMAL WIRING. TELEPHONE: BUSHED HOLE. POWER: DUPLEX RECEPTACLE OR OTHER AS NOTED. INCREASE SIZE TO SUIT AS NECESSARY. FLUSH OUTLETS SHALL BE HUBBELL #B2414 SERIES WITH FLUSH FLOOR FITTING FOR TELEPHONE AND FLUSH DUAL FLAP COVER WITH DUPLEX RECEPTACLE FOR POWER AS NOTED. INCREASE SIZE TO SUIT AS NECESSARY.

H. PROVIDE RACEWAYS ONLY AS HEREIN SPECIFIED, EXCEPT AS NOTED. RACEWAYS SHALL BE RUN CONCEALED, EXCEPT AS NOTED.

PROVIDE RACEWAY SUPPORT UTILIZING CEILING TRAPEZE, STRAP HANGERS, OR WALL BRACKETS. FOR ABOVE FLOOR FITTINGS, TELEPHONE SHALL BE BUSHED HOLE AND POWER SHALL BE DUPLEX RECEPTACLE OR OTHER AS NOTED. PROVIDE SEPARATION BARRIER BETWEEN POWER AND TELEPHONE COMPARTMENTS. PROVIDE JUNCTION BOX ON UNDERSIDE OF FLOOR. PACK FITTING TO RESTORE FIRE RATING OF FLOOR.

SECURE ALL RACEWAYS TO SUPPORTS WITH PIPE STRAPS OR U-BOLTS. SPACING OF SUPPORTS SHALL BE A MINIMUM OF 10 FT ON CENTER FOR METALLIC RACEWAY AND AS REQUIRED FOR NONMETALLIC RACEWAY. MOUNT SUPPORTS TO STRUCTURE MASONRY WITH TOGGLE BOLTS ON HOLLOW MASONRY, EXPANSION SHIELDS OR INSERTS IN CONCRETE AND BRICK, MACHINE SCREWS ON METAL, AND PAN THROUGH STRAPS IN METAL DECK. NAILS, RAWL PLUGS OR WOOD PLUGS SHALL NOT BE PERMITTED. WHERE REQUIRED BY STRUCTURE, FURNISH THROUGH BOLTS AND FISHPLATES.

EXPOSED RACEWAYS SHALL BE RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS. PROVIDE CLEARANCE WITH WATER, STEAM OR OTHER PIPING (MINIMUM 3 IN. SEPARATION FROM STEAM AND HOT WATER PIPES, EXCEPT 1 IN. FROM PIPE COVER AT CROSSINGS AND 18 IN. FOR PARALLEL RUNS). FOR HUNG CEILING OUTLETS, RUN IN HUNG CEILING AND CONNECT TO CEILING SUPPORT CHANNELS. IN MASONRY AND POURED CONCRETE, RUN VERTICALLY ONLY.

MAINTAIN GROUNDING CONTINUITY OF INTERRUPTED METALLIC RACEWAYS WITH GROUND CONDUCTOR, AND IN FLEXIBLE CONDUIT FOR FEEDERS AND MOTOR TERMINAL CONNECTIONS.

EMPTY RACEWAYS OVER 10 FT LONG: PROVIDE FISH OR PULL WIRE, GALVANIZED OR NYLON ROPE.

EMT SHALL BE PERMITTED FOR BRANCH CIRCUITS ONLY, IN DRY LOCATIONS, DRY WALLS, HUNG CEILINGS, HOLLOW BLOCK WALLS AND FURRED SPACES. EMT SHALL NOT BE PERMITTED IN RAISED FLOORS.

CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.

ALL COUPLINGS SHALL BE COMPRESSION TYPE. NO SET SCREW FITTINGS.

RACEWAYS PASSING THROUGH FIRE-RATED CONSTRUCTION: SEAL OPENING WITH FIRE SEALANT.

I. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. OUTLET BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRON OR GROUT IN WITH MASONRY. VERIFY OUTLET LOCATIONS IN FINISHED SPACES WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISHES. PROVIDE BARRIERS BETWEEN SWITCHES CONNECTED TO DIFFERENT PHASES FOR VOLTAGES EXCEEDING 150 VOLTS TO GROUND.

J. JUNCTION AND PULL BOXES SHALL BE LOCATED CLEAR OF OTHER TRADES. CONCEAL JUNCTION AND PULL BOXES IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. BOXES SHALL BE ACCESSIBLE. SUPPORT BOXES FROM BUILDING STRUCTURE, INDEPENDENT OF CONDUIT. PROVIDE FLOOR-TO-CEILING CHANNELS FOR MOUNTING ON DRYWALL AND LIGHTWEIGHT CONSTRUCTION. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILINGS SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURE. SECURE TO BLACK IRON SUPPORT. MOTOR TERMINAL BOXES: COORDINATE WITH MOTOR BRANCH CIRCUIT CONDUIT AND WIRING; ADD BOX VOLUME WHERE REQUIRED.

K. FIRE SEALANTS: PROVIDE FOR RACEWAYS AND WIRE PASSING THROUGH FLOOR SLOTS, SLEEVES OR OPENINGS IN FIRE-PARTITIONS ROOMS.

L. PERFORM CONTINUITY TESTS OF RESISTANCE OF FEEDER CONDUITS FROM SERVICE TO POINT OF FINAL DISTRIBUTION USING 1 CONDUCTOR RETURN. MAXIMUM RESISTANCE SHALL BE 25 OHMS.

7. WIRE AND CABLE:

A. PROVIDE WIRE AND CABLE COMPLETE WITH ACCESSORIES. SIZE REFERENCE SHALL BE AWG EXCEPT AS NOTED.

B. CONDUCTORS SHALL BE COPPER, ASTM STANDARD SOLID (NO. 10 AND SMALLER) OR STRANDED (NO. 8 AND LARGER). GENERAL USE CABLING SHALL BE NO. 12 MINIMUM. AT 120 VOLTS AND OVER 100 FT CIRCUIT LENGTH PROVIDE NO. 10 MINIMUM. AT 265 VOLTS AND OVER 200 FT CIRCUIT LENGTH PROVIDE NO. 10 MINIMUM.

CONTROL AND ALARM CABLING, EXCEPT AS NOTED, SHALL BE NO. 14 MINIMUM. AT 120 VOLTS AND OVER 200 FT CIRCUIT LENGTH PROVIDE NO. 12 MINIMUM.

OTHER VOLTAGES AND PHASES: ADJUST CABLE SIZING AS REQUIRED TO MAINTAIN VOLTAGE DROP. INCREASE RACEWAY SIZES FOR LARGER WIRE AS REQUIRED.

C. INSULATION SHALL BE RUBBER AND THERMOPLASTIC MEETING ASTM AND IPCEA STANDARDS. TYPE THW OR THWN SHALL BE UTILIZED FOR FEEDERS AND BRANCH CIRCUITS EXCEPT AS NOTED.

D. ARMORED CABLE (BX) SHALL BE UTILIZED FOR BRANCH CIRCUITS IN DRY HOLLOW LOCATIONS, HUNG CEILINGS, AND BLOCK WALLS. WHEN USED IN LIEU OF WIRING IN CONDUIT, STATE IN PROPOSAL THAT PRICE IS BASED UPON THE USE OF BX.

E. COLOR CODING SHALL BE AS FOLLOWS:

1) 120/208 VOLT SYSTEM:
   BLACK FOR A PHASE
   RED FOR B PHASE
   BLUE FOR C PHASE
2) 277/480 VOLT SYSTEM:
   BROWN FOR A PHASE
   ORANGE FOR B PHASE
   YELLOW FOR C PHASE
3) NEUTRAL WIRE SHALL UTILIZE WHITE OUTER COVERING THROUGHOUT. EQUIPMENT GROUND WIRE SHALL UTILIZE GREEN OUTER COVERING THROUGHOUT.

WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION TO OVERLAP CONDUCTORS WITH 6 IN. OF COLOR TAPING IN ACCESSIBLE LOCATIONS.

F. PROVIDE FLAMEPROOF LINEN OR FIBER TAGS IN ACCESSIBLE LOCATIONS. FOR FEEDERS INDICATE FEEDER NUMBER, SIZE, PHASE AND POINTS OF ORIGIN AND TERMINATIONS. FOR CONTROL AND ALARM WIRING, INDICATE TYPE (CONTROL OR ALARM), SIZE OF WIRE, AND POINTS OF ORIGIN AND TERMINATIONS.

G. TERMINATIONS, SPLICES AND TAPS UNDER 600 VOLTS: COPPER CONDUCTORS NO. 10 AND SMALLER SHALL UTILIZE COMPRESSION-TYPE OF TWIST-ON SPRING-LOADED CONNECTORS AND CLEAR NYLON-INSULATED COVERING. COPPER CONDUCTORS NO. 8 AND LARGER SHALL UTILIZE MECHANICAL BOLTED PRESSURE OR HYDRAULIC COMPRESSION TYPE USING MANUFACTURER'S RECOMMENDED TOOLING. CABLE LUGS AND CONNECTORS SHALL UTILIZE COMPRESSION TYPE OF SAME METAL AS CONDUCTOR. PROVIDE TO MATCH CABLE, WITH MARKING INDICATING SIZE AND TYPE. COPPER LUG CONNECTIONS TO BUS BARS: USE ANTISEIZE COMPOUND ON TANG.

H. NOT MORE THAN 3 LIGHTING OR CONVENIENCE OUTLET CIRCUITS SHALL BE INSTALLED IN ONE CONDUIT UNLESS OTHERWISE INDICATED. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32 °F.

I. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS.

J. PERFORM CONTINUITY AND INSULATION TESTS. MEGGER TEST 10 PERCENT OF BRANCH CIRCUITS.

PERFORM TESTS PRIOR TO CONNECTING EQUIPMENT AND IN PRESENCE OF AUTHORIZED REPRESENTATIVES. SUBMIT WRITTEN REPORT OF RESULTS. CORRECT OR REPLACE CABLE TESTING BELOW MANUFACTURER'S STANDARDS.

9. DEVICES:

A. PROVIDE COMPLETE MATERIAL AND ACCESSORIES AS NOTED.

B. INSERTION RECEPTACLES SHALL BE SPECIFICATION GRADE DUPLEX CONVENIENCE 125 VOLTS, 2 POLE, 3 WIRE, U GROUND SLOT. GROUNDED, EXCEPT AS NOTED. MEETING NEMA STANDARDS, PUBLICATION WD-1-1971. SIMILAR TO HUBBELL NOS. 5362 (20 AMP) AND 5262 (15 AMP).

1) SINGLE, EXCEPT AS NOTED:
   a. 20 AMP STRAIGHT BLADE, SIMILAR TO HUBBELL NO. 5361.
   b. 125 VOLT, 2 POLE, 3 WIRE, GROUNDED.
2) SPECIAL USE: NONINTERCHANGEABLE TYPES AND RATINGS.

D. DEVICE PLATES: SEE ARCHITECT FOR TYPE. FOR RECEPTACLES WITH OTHER THAN 120 VOLT, INSCRIBED VOLTAGE AVAILABLE.

E. COLORS: COORDINATE COLORS WITH ARCHITECT.

F. MOUNTING ORIENTATION OF RECEPTACLES (HORIZONTAL OR VERTICAL): COORDINATE WITH ARCHITECT.

10. TELEPHONE CONDUIT SYSTEM:

A. PROVIDE COMPLETE SYSTEM OF: EMPTY CONDUIT, PULL BOXES, OUTLETS, SLEEVES AND FISHWIRES.

B. EQUIPMENT SHALL CONFORM TO REQUIREMENTS OF TELEPHONE COMPANY.

C. OUTLETS SHALL BE:

1) ALL: 4 IN. SQUARE WITH BUSHED COVER PLATE.
2) FLOOR: CAST IRON WITH LOW TENSION FITTING.

D. PROVIDE FISHWIRES, IN RACEWAYS OVER 10 FT LONG.

E. CONDUIT SHALL BE 3/4 IN. MINIMUM. FURNISH EMPTY CONDUIT FROM OUTLET TO NEAREST ACCESSIBLE HUNG CEILING.

12. GROUNDING

A. GROUND CABLES SHALL BE BARE OR GREEN COLOR CODED, INSULATED, ANNEALED STRANDED TINNED COPPER WIRE AS INDICATED ON DRAWINGS.

B. PROVIDE CONTINUOUS GROUND PATH FOR ALL ELECTRICAL CIRCUITS, FROM POINT OF UTILIZATION BACK TO SOURCE THROUGH GROUND WIRES, CONDUIT RUNS, AND RELATED ITEMS.

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PROJECT

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REVISIONS

REV	DATE	DESCRIPTION / COMMENTS
	2/3/2020	ISSUED FOR BID

SEAL

ISSUED FOR: BID & PERMIT
ISSUED DATE: 09.11.2019

DRAWN BY: AR
CHECKED BY: DC
PROJECT NUMBER: 20076
SU-021119

DRAWING NAME
ELECTRICAL SPECIFICATIONS

DRAWING NO.
E-300