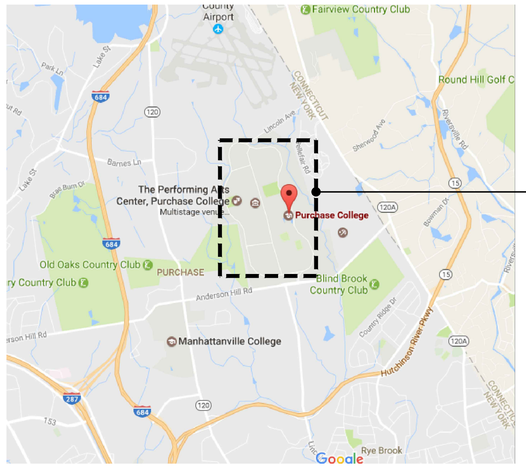
INTERIOR RENOVATION
CAMPUS CENTER SOUTH

FOR

PURCHASE COLLEGE
STATE UNIVERSITY OF NEW YORK
735 ANDERSON HILL RD. PURCHASE, NY 10577



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CAMPUS CENTER SOUTH

BUILDING LOCATION MAP

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2.	ISSUE FOR BID	05/10/2017
1.	ISSUE FOR 90% REVIEW	05/01/2017

SEAL

PROJECT
INTERIOR RENOVATION
CAMPUS CENTER SOUTH

DATE:	03/28/2017
PROJECT NO:	DA 16169 / SU 022317
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE
COVER SHEET

SHEET NO.
G-001

SYMBOLS

MATERIAL INDICATIONS

- EARTH
- GRANULAR FILL/ROOF BALLAST
- BRICK
- CONCRETE MASONRY UNIT
- CONCRETE
- GYPSUM WALLBOARD OR GROUT
- ROUGH WOOD BLOCKING
- FINISH WOOD
- PLYWOOD
- RIGID INSULATION/EIFS
- BATT INSULATION
- STEEL

SYMBOLS

ROOM NAME
100 — ROOM DESIGNATION

100 — DOOR NUMBER

W1 — WINDOW NUMBER

L1 — LOUVER NUMBER

A — COLUMN NUMBER

FIN FLR +0.00' — ELEVATION TARGET

1 — REVISION NUMBER

1 — KEYED NOTE DESIGNATION

1 — WALL/PARTITION TYPE

SECTION
A1 / A401 — SECTION IDENTIFICATION; VIEW DIRECTION; SHEET WHERE SECTION IS DRAWN

DETAIL
A1 / A401 — DETAIL IDENTIFICATION; SHEET WHERE DETAIL IS SHOWN

INTERIOR ELEVATION
A — ELEVATION IDENTIFICATION
A101 — SHEET WHERE ELEVATION IS DRAWN

BUILDING ELEVATION
A1 / A201 — ELEVATION IDENTIFICATION; SHEET WHERE ELEVATION IS DRAWN

- EXISTING WALLS TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- EXISTING DOOR AND FRAME TO REMAIN
- DOOR AND FRAME TO BE REMOVED
- NEW WALLS
- NEW DOOR AND FRAME; DOOR NUMBER; REFER TO DOOR SCHEDULE ON DRAWING

ABBREVIATIONS

ACCESS	ACCESSIBLE
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN, ACCESS
ADJ	DOOR
AFF	ADJACENT
AFL	ABOVE FINISHED FLOOR
AHU	ACCESS FLOOR(ING)
ALUM	AIR HANDLING UNIT
APPD	ALUMINUM
ARCH	APPROVED
ASPH	ARCHITECT(URE,URAL)
	ASPHALT
BALC	BALCONY
B/C	BOTTOM OF CURB
BD	BOARD
BET	BETWEEN
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BSMT	BASEMENT
BUR	BUILT-UP ROOF
C	CONDUIT
CAB	CABINET
CAT	CATALOG
CB	CATCH BASIN
C.BD.	CHALKBOARD
CI	CAST IRON
CJ	CONTROL JOINT
CLG	CEILING
CLL	CONTRACT LIMIT LINE
CLOS	CLOSET
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
COND	CONDENS(ATE, ER, ING)
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINU(OUS, ATION)
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CRS	COURSE
CT	CERAMIC TILE
CW	COLD WATER
CWR	CHILLED WATER RETURN
D	DRAIN
DBL	DOUBLE
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON, DROP INLET
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DL	DEAD LOAD
DN	DOWN
DOM	DOMESTIC
DR	DOOR
DW	DISHWASHER
DWG	DRAWING
EA	EACH
EF	EXHAUST FAN
EHD	ELECTRIC HAND DRYER
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR OR ELEVATION
EMER	EMERGENCY
ENCL	ENCLOS(E, SURE)
EP	ELECTRICAL PANEL BOARD
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQPT	EQUIPMENT
ETR	EXISTING TO REMAIN
ETRD	EXISTING TO BE REMOVED
ETRL	EXISTING TO BE RELOCATED
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FAI	FRESH AIR INTAKE
FB	FOILBACKED
FD	FLOOR DRAIN, FIRE DAMPER
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FH	FIRE HYDRANT
FIN	FINISH(ED)
FL, FLR	FLOOR
FLUOR	FLUORESCENT
F.O.	FINISHED OPENING
FOB	FACE OF BRICK
FOC	FACE OF CONCRETE
FPWH	FREEZE PROOF WALL HYDRANT
FRT	FIRE RETARDANT TREATED
FT	FEET, FOOT
FS	FLOOR SINK
FTG	FOOTING
G	GAS
GA	GAGE
GALV	GALVANIZED
GL	GLASS/GLAZING
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIBB
HC	HOLLOW CORE
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HW	HOT WATER
HWD	HARDWOOD
HWR	HOT WATER RETURN
ID	INSIDE DIAMETER
IN	INCH
I.E.	THAT IS
INCAN	INCANDESCENT
INSUL	INSULAT(E, D, ION)
INT	INTERIOR
INV	INVERT
JB	JUNCTION BOX
JC OR JAN	JANITOR'S CLOSET
JT	JOINT
L	LENGTH, LONG, ANGLE
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY(ED)
LCC	LEAD COATED COPPER
LIN	LINEN
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMF	LIGHT GAGE METAL FRAMING
LP	LOW POINT (LOW PRESSURE IN THE CONTEXT OF HVAC DRAWINGS)
MAX	MAXIMUM
MC	STRUCTURAL SHAPE MISC. CHANNEL IN THE CONTEXT OF STRUCTURAL DRAWINGS
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MICROW	MICROWAVE OVEN
MIN	MINIMUM
MO	MASONRY OPENING
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPG	OPENING
OPP	OPPOSITE
OZ	OUNCE
P	POLE
PB	PULLBOX
PCC	PRECAST CONCRETE
PD	PRESSURE DROP
PH	PHASE
PIL	PILASTER
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POLY	POLYISOCYANURATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAINT(ED)
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
QTY	QUANTITY
R	RISER, RADIUS
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REFG	REFRIGERAT(OR, ANT, ATION)
REFL	REFLECTED
REINF	REINFORCE(ED, MENT)
REQD	REQUIRED
RESIL	RESILIENT
RLE	RELOCATED EXISTING
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
S&R	SHELF AND ROD
SC	SOLID CORE
SHED	SCHEDULE(D)
SECT	SECTION
SF	SQUARE FEET
SG	SAFETY GLASS
SHT	SHEET
SIM	SIMILAR
SOG	(CONCRETE) SLAB ON GRADE
SP	SUMP PUMP
SPEC	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL, SANITARY SEWER
ST	STORM SEWER
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
T	TREAD
T.O.	TOP OF
T&B	TOP & BOTTOM
T&G	TONGUE AND GROOVE
T.BD.	TACKBOARD
TC	TERNE COATED
T/C	TOP OF CURB
TELE	TELEPHONE
TEMP	TEMPERATURE
TERR	TERRAZZO
T/F	TOP OF FRAME
THD	THREAD(ED)
THK	THICK(NESS)
THR	THRESHOLD
TOIL	TOILET
TOS	TOP OF SLAB
TOW	TOP OF WALL
TS	STRUCTURAL TUBULAR STEEL
T/S, TOS	TOP OF STEEL
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTABLE POWER
UTIL	SUPPLY UTILITY
VAR	VARIES
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIN	VINYL
VT	VAPOR TIGHT
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W/D	WASHER/DRYER
W	WIDE, WIDTH, WATER
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WP	WATERPROOF
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

SAFETY NOTES

1 CONSTRUCTION WORK WILL BE CONFINED TO THE PREMISES INTERIOR, AND WILL NOT CREATE DUST, DIRT OR SUCH INCONVENIENCES TO OTHER AREAS WITH THE BUILDING.

2 CONSTRUCTION OPERATIONS WILL BE CONFINED TO NORMAL WORKING HOURS, 8 AM TO 5 PM, MONDAYS THROUGH FRIDAYS. EXCEPT LEGAL HOLIDAYS AS PER OWNER'S DIRECTIONS..

3 DEMOLITION – ALL DEBRIS AND PRODUCTS OF DEMOLITION NOT DESIGNATED FOR REUSE SHALL BE REMOVED FROM THE PREMISES AND LEGALLY DISPOSED OF.

4 THE SITE SHALL BE LEFT BROOM CLEAN AT THE END OF EVERY WORKING DAY.

5 REFER TO OWNER'S REQUIREMENTS AS PROVIDED IN THE ADMINISTRATIVE SPECIFICATIONS.

6 REFER TO OWNER'S REPORT REGARDING ASBESTOS ABATEMENT.

GENERAL NOTES

1. ALL WORK SHALL BE IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS, STATUTES, ORDINANCES, CODES, RULES, REGULATIONS, AND LAWFUL ORDERS OF THE AUTHORITY'S HAVING JURISDICTION OVER THE EXECUTION OF THE WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY ON THE JOB SITE.
3. ALL MEANS OF EGRESS SHALL BE MAINTAINED FREE AND CLEAR OF OBSTRUCTIONS AT ALL TIMES.
4. THE CONTRACTOR SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ACTUAL FIELD CONDITIONS.
5. NOT USED.
6. THESE PLANS, PRODUCT APPROVALS, AND ANY FUTURE REVISIONS CONSTITUTE THE CONSTRUCTION DOCUMENTS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL TRADES AND FOR ENSURING THE QUALITY AND TIMELY COMPLETION OF THE WORK.
8. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY SERVICE TO THE OCCUPIED AREAS OF THE BUILDING. ANY REQUIRED INTERRUPTION OF SERVICE SHALL NOT OCCUR WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER.
9. DO NOT SCALE THE DRAWINGS. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCY. NO VARIATION FROM THE CONTRACT DOCUMENTS IS PERMISSIBLE WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT/ENGINEER.
10. THE CONTRACTOR SHALL VERIFY ALL TIE–IN DIMENSIONS BETWEEN THE EXISTING BUILDING AND THE NEW WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY. IN THE EVENT OF A REPORTED DISCREPANCY, THE ENGINEER WILL RENDER A RESOLUTION IN A TIMELY MANNER, NOT TO IMPACT THE CONSTRUCTION SCHEDULE. IF WORK PROCEEDS PRIOR TO THE CONTRACTOR RECEIVING A RESOLUTION FROM THE ENGINEER, THE CONTRACTOR PROCEEDS AT HIS OWN RISK.
11. ALL ELECTRICAL AND MECHANICAL EQUIPMENT SHOWN ON THE ARCHITECTURAL DRAWINGS ARE FOR INFORMATION AND COORDINATION PURPOSES ONLY. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ACTUAL LOCATION OF THESE ITEMS & SCOPE.
12. THE CONTRACTOR SHALL GUARANTEE ALL WORK, LABOR AND MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF THE "FINAL CERTIFICATE OF OCCUPANCY."
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP AT THE END OF EACH WORK DAY. THE JOB SITE WILL BE LEFT BROOM CLEAN. ALL DEBRIS SHALL BE TAKEN TO AN AREA DESIGNATED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF DEBRIS FROM THE BUILDING.
14. ALL DEMOLITION WORK SHALL BE CONDUCTED IN A SAFE AND CAREFUL MANNER.
15. PORTIONS OF THE BUILDING MAY BE OCCUPIED FOR THE DURATION OF THE WORK. TO MINIMIZE INTERFERENCE WITH THE OWNER'S OPERATIONS, INCLUDING VEHICULAR TRAFFIC, ETC., THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE TO THE BUILDING OWNER FOR REVIEW AND APPROVAL, PRIOR TO COMMENCEMENT OF WORK.
16. EXISTING FLOORS, WALLS AND CEILINGS INDICATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE.
17. THE CONTRACTOR IS RESPONSIBLE FOR BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS AND OFF–ALIGNMENTS.
18. PATCH AND RESTORE ALL DAMAGED AND / OR DISTURBED FIREPROOFING
19. ONLY FIRE TREATED WOOD SHALL BE USED DURING CONSTRUCTION.
20. PRIOR TO SAWCUTTING AND CORE DRILLING, USE GROUND PENERATING RADAR (GPR) IN AREA TO LOCATE REINFORMENT, WATER AND/OR ELECT. LINES. PROVIDE ELECTRONIC GENERATED DRAWING LOCATING ALL ITEMS FOR THE OWNER.
21. CORE DRILL CORNERS PRIOR TO SAWCUTTING CONCRETE AND MASONRY TO AVOID OVERCUTTING FOR THE INSTALLATION OF MECHANICAL DUCTWORK, PLUMBING AND ELECTRICAL PIPING. SEE PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL WORK.
22. PROVIDE FIRESTOPPING ASSEMBLIES EQUAL TO RATING OF PARTITION AND/OR FLOOR SYSTEM AT ALL PENETRATIONS. MAINTAIN FIRE RATING WITH APPROVED MATERIAL.
23. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING THE MIGRATION OF DUST AND DIRT INTO OCCUPIED AREAS OF THE BUILDING. THE CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION, BAFFLES AND OTHER FILTERING DEVICES AS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR CHANGING THE FILTERS IN THE BUILDING'S MAIN AIR DISTRIBUTION UNIT UPON COMPLETION OF THE WORK.
24. THE CONSTRUCTION OF TEMPORARY DUST PARTITIONS SHALL PRECEDE THE COMMENCEMENT OF ALL WORK. PROVIDE TEMPORARY DUST PARTITION (TDP) FROM TOP OF EXISTING CONCRETE SLAB TO THE UNDERSIDE OF EXISTING SLAB ABOVE TO ENCLOSE THE AREA OF WORK. OWNER'S FIELD REPRESENTATIVE WILL DETERMINE WHEN THE TEMPORARY DUST PROTECTION AND FLOOR AND WALL PROTECTION WILL BE REMOVED.
25. PROVIDE WALK–OFF MATS AT DOOR OPENINGS IN THE TEMPORARY DUST PARTITION AND FROM FREIGHT ELEVATOR TO ALL AREAS OF WORK
26. PROVIDE DOOR OPENINGS IN THE TEMPORARY DUST PARTITIONS IN ACCORDANCE WITH THE LATEST BUILDING CODE.
27. ALL EXISTING SMOKE DETECTORS WHICH ARE TO REMAIN IN THE DEMOLITION AREA SHALL BE PROTECTED FROM DUST, ETC. BY ENCAPSULATION IN A PLASTIC BAG AT THE START OF EACH WORK DAY AND UNCOVERED AT THE END OF EA. WORKDAY. WORK WITH BUILDING OWNER TO TAKE FIRE ALARM SYSTEM OFF LINE DURING DEMOLITION.
28. ALL NEW STEEL TO BE FIREPROOFED TO MEET A 2 HOUR RATING. PROVIDE A TROWELED OR SPRAYED ON APPLICATION.
29. PROVIDE 1/4" HARD BOARD PROTECTION ON WOOD STUDS WHERE OWNERS EQUIPMENT MAY GET DAMAGED.
30. PROVIDE SCAFFOLDING AND DRAPED NON–STATIC FIRE RETARDANT PLASTIC SHEETING PROTECTION OVER THE EQUIPMENT WHEN REMOVING AND INSTALLING DUCTWORK. COORDINATE EXTENT OF WORK WITH THE MECHANICAL DRAWINGS.
31. AT THE COMPLETION OF WORK, MOP, SWEEP AND VACUUM THE AREA OF WORK AND ANY AREAS AFFECTED BY CONSTRUCTION. THE OWNER'S FIELD REPRESENTATIVE WILL DETERMINE IF THE MOPPING, SWEEPING AND VACUUMING IS SATISFACTORY.
32. HOLES DUE TO THE REMOVALS IN THE AREA OF WORK SHALL BE TEMPORARILY FIRE STOPPED WITH FIRE SAFING MATERIAL EQUAL TO THE RATING OF THE ITEM PENETRATED, UNTIL PERMANENTLY FILLED.
33. PATCH AND REPAIR ALL HOLES, TO MATCH EXISTING ADJACENT AREAS, CONCRETE SLAB, CEILING SLAB ABOVE, WALLS, COLUMNS AND PARTITIONS DUE TO DEMOLITION AND NEW WORK OF ALL TRADES. MAINTAIN FIRE RATING OF ALL PENETRATIONS WHERE PATCHING IS REQUIRED. REFER TO ALL OTHER DRAWINGS (HVAC AND ELECTRICAL) FOR FULL WORK SCOPE.
34. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING.
35. CLOSE ALL OPENINGS IN THE WALLS AND PARTITIONS W/ MATERIALS AND FINISHES TO MATCH ADJOINING SURFACES, DUE TO REMOVAL OF DUCTWORK, PIPING AND/OR CONDUIT, ETC.
36. REMOVE ALL ITEMS OF ALL TRADES WHICH HAVE REMAINED FROM PREVIOUS PROJECTS, THAT ARE NO LONGER IN SERVICE. THE UNDERSIDE OF SLAB, COLUMNS AND WALLS SHALL BE FREE AND CLEAR OF ALL ITEMS, WITH THE EXCEPTION OF THOSE ITEMS SPECIFICALLY INDICATED TO REMAIN BY THE TRADES, OR ARE CURRENTLY IN SERVICE. COORDINATE WITH ALL TRADES AND OWNER PRIOR TO REMOVING ITEMS. THE G.C. SHALL BE RESPONSIBLE FOR REPLACING ALL ITEMS LISTED TO REMAIN AT NO EXPENSE TO THE OWNER.
37. REMOVE, STORE AND REINSTALL THE EXISTING CEILING SYSTEM U.O.N. FOR THE INSTALLATION OF ANY MECHANICAL, ELECTRICAL AND PLUMBING WORK. COORDINATE EXTENT AND LOCATIONS WITH THE MECHANICAL ,PLUMBING AND ELECTRICAL CONTRACTORS. G.C. TO REPLACE ALL DAMAGED METAL TEES AND ACOUSTICAL PANEL TO MATCH THE EXISTING IN ALL RESPECTS. G.C. IS RESPONSIBLE FOR SAFE STORAGE.
38. PRIOR TO DEMOLITION, COORDINATE WITH THE OWNER AS TO WHICH MISCELLANEOUS WALL, FLOOR AND CEILING MOUNTED ITEMS WILL BE DISCARDED OR STORED FOR FUTURE USE. ALL ITEMS DESIGNATED FOR FUTURE REUSE SHALL BE STORED IN AN AREA DESIGNATED BY THE OWNER'S FIELD REPRESENTATIVE. STORE ALL ITEMS IN LABELED BOXES.
39. COORDINATE THE REMOVAL AND/OR RELOCATION OF GENERAL CONSTRUCTION, PLUMBING, FIRE PROTECTION, MECHANICAL AND ELECTRICAL ITEMS WITH THE DRAWINGS OF THE RESPECTIVE TRADES.
40. NOT USED.
41. ALL FLOOR DIMENSIONS ARE NOMINAL DIMENSION. REFER TO PARTITION TYPES FOR EXACT PARTITION DIMENSIONS.
42. ALL HEIGHTS GIVEN ARE ABOVE SLAB UNLESS OTHERWISE NOTED.
43. PRIOR TO THE START OF WORK, NOTIFY BUILDINGS SITE PROJECT MANAGER.
44. NO OIL BASE PAINTS, SOLVENTS, ETC. OR NOXIOUS ODOR PRODUCING MATERIALS SHALL BE USED DURING REGULAR BUSINESS HOURS.
45. CONTRACTOR AND SUBCONTRACTORS SHALL COMPLY WITH BUILDING OWNERS "RULES AND REGULATIONS FOR CONTRACTORS AND SUBCONTRACTORS".

THE GENERAL NOTES ON THIS SHEET APPLY TO ALL ARCHITECTURAL DRAWINGS AND ALL WORK IN CONJUNCTION WITH ALL TRADES.

ALL PHASES OF CONSTRUCTION TO COMPLY WITH BUILDING STANDARD OPERATING PROCEDURES. G.C. IS RESPONSIBLE FOR OBTAINING & CONFORMING WITH THIS INFORMATION & DISTRIBUTING TO ALL SUBCONTRACTORS PRIOR TO SUBMITTING BID.

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1.	ISSUE FOR 90% REVIEW	05/01/2017

SEAL

PROJECT
INTERIOR RENOVATION
CAMPUS CENTER SOUTH

DATE:	03/28/2017
PROJECT NO:	DA 16169 / SU 022317
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE
SYMBOLS, ABBREVIATIONS & GENERAL NOTES

SHEET NO.
G-002

GENERAL NOTES AND CONDITIONS

1. The Contractor shall provide all work in conformance with the following contract documents: the owner/contractor agreement, General Conditions, the Drawings, specifications, and all addenda and modifications.

2. All work shall be done in accordance with the rules and regulations of the authority having jurisdiction, and with the rules and regulations of OSHA. Unless otherwise agreed upon, the General Contractor is responsible for the filing, obtaining, and payment of all fees for building department and other agency approvals, permits, controlled inspections, and final write-offs at project completion. Copies of all said transactions shall be forwarded to the Architect and Owner prior to the commencement of the Work. The contractor shall arrange for all inspections necessary to obtain a Certificate of Occupancy.

3. Unless otherwise agreed upon, the General Conditions for this project shall be A.I.A. document A201, latest edition.

4. The Contractor shall visit and examine the project site to become familiar with all existing conditions. The contractor shall review the construction documents and verify dimensions and actual field conditions. Any conflicts/omissions, or discrepancies between the actual field conditions and the construction documents, or any discrepancies within the construction documents themselves, shall be brought to the attention of the Architect, in writing, three (3) business days before return of bid. The General Contractor warrants by tendering his bid that the Work is buildable as shown. Drawings of existing conditions are based upon existing building drawings obtained through the Owner and on limited field observation by the Architect. Actual field conditions may vary from that shown in the construction documents.

5. The Contractor shall verify that the Drawings are the latest issue prior to commencement of the Work. Any conflicts found in the construction documents or any apparent error in clarifying or specifying a product or its use shall be brought to the attention of the Architect. In instances of conflict between the architectural drawings and the engineering drawings for locations of materials/equipment, the architectural drawings shall govern. The contract documents will be amended via addenda that will be issued as necessary and will become part of the contract documents. For discrepancies not brought to the attention of the Architect it will be assumed that the Contractor has bid the more expensive method of construction. The Contractor shall not proceed with work for which he expects additional compensation without written authorization from the Architect. Failure to obtain authorization shall invalidate a claim for extra compensation.

6. The Contractor is responsible for all construction means, methods, techniques, sequences, procedures, and coordination of all work performed under his supervision including work performed by his subcontractors.

7. The Contractor shall protect all existing construction and finishes from damage and will repair, at his expense, any damage that occurs during the performance of the Work. No work and/or construction operations shall be performed that will undermine the structural integrity of the building. The Contractor will be responsible for adequately bracing and protecting the Work during construction against damage, breakage, collapse, distortion, and/or misalignment in accordance with all applicable codes, standards and good practice. The Contractor shall be held responsible for damages attributable to his operation, repairs, or replacement without additional charge to the party affected. The Contractor shall provide and maintain the necessary coverings, boards, temporary partitions, and doors as required to protect new and existing work, materials, and finishes already in place.

8. The Contractor shall submit shop drawings, finish samples and/or specification sheets to the Architect for approval on all items fabricated or purchased off-site prior to fabrication or purchase. Shop drawings shall include, but will not be limited to, the following: detailed fabrication and erection drawings, setting drawings, seaming diagrams, and material schedules. Fabrication will begin only after the Architect has reviewed and approved the shop drawings and finish samples. Shop drawings shall be submitted in the following format: three copies of each sheet or three complete sets. Each submittal shall contain three (3) copies of product data or samples. Installation of all such items shall be in strict accordance with the manufacturer's recommendation and specifications. Review of shop drawings/submittals by the Architect is only for general conformance with the design intent. The Contractor shall be responsible for correlating and confirming dimensions, quantities, and choosing the fcation processes and construction techniques, coordinating related trades, and performing the Work in a safe and satisfactory manner. The Contractor shall indicate on the shop drawings/submittals that he has reviewed them prior to submission to the Architect.

9. Substitutions, revisions, or changes must be submitted to the Architect for review and approval in accordance with specified procedures prior to purchase, fabrication or installation. Requests for substitution of specified items shall be submitted within (10) ten days of contract award and will be considered only if the substitution item provides better performance, has a more advantageous delivery date, and where there is no sacrifice in quality, appearance or functionality. Under no circumstance will the Architect be required to prove that a product proposed for substitution is or is not of equal quality to the specified product.

10. The Contractor shall coordinate and verify actual field conditions and ensure proper layout of the new partitions. The new partition layout shall be reviewed by the Architect for compliance with design intent. Installation of studs shall not proceed without this review and approval. Review for design intent does not release the Contractor from the responsibility to maintain critical dimensions and clearances. Dimensions shown as 'VIF' shall be verified by the Contractor in the field. The Contractor shall notify the Architect of any dimensional discrepancies prior to proceeding with the Work.

11. The Contractor shall coordinate with the Architect regarding exact field placement of partitions, ceiling grid, light fixtures, and receptacles and shall obtain approval for each before proceeding with performance of the Work. Verify all critical dimensions periodically during the Work. Do not scale the Drawings. Written dimensions shall take precedence. When discrepancies are found, notify the Architect for written clarification prior to proceeding with the Work. Construction plans by the Architect supersede all other plans.

12. New partitions are dimensioned from finish face to finish face, unless otherwise noted. Dimensions marked clear shall be maintained and shall allow for the thickness of finishes including carpet, ceramic tile, VCT, or any other finishing materials. The Contractor shall not adjust dimensions without written instruction from the Architect.

13. Dimensions marked clear are to be within 1/16-inch. Dimensions are as follows unless noted otherwise:
A. To finished face of gypsum board
B. To inside face of jamb at doors and other openings
C. To top of finished doors
D. To bottom of finished ceilings

14. Where new partitions are shown to be in alignment with one or more existing building elements, such as a column, and those elements are not aligned, the Contractor shall layout the new partitions along the entire length aligning with the furthest projection. Unless otherwise noted, all other surfaces along the alignment shall be furred-out to this line and the Architect shall be notified before erection. At the building perimeter, new partitions shall be centered on the centerline of columns or window mullions unless otherwise noted.

15. For a period of one year from the date of construction completion and acceptance by the Owner, the Contractor shall adjust, repair, or replace, at no cost to the Owner, any equipment, materials, or workmanship found to be defective.

16. The Contractor shall submit a complete construction schedule with his cost proposal that identifies, by trade, each construction sequence. The construction schedule shall indicate work to be performed "by others" and shall be re-issued to the Architect should a modification be required. The Contractor shall indicate time durations during which the work performed "by others" shall be performed and shall allow sufficient time for the work to be done efficiently and on a non-overtime status.

17. The schedule shall allow for completion of work at least two weeks prior to move-in in order for the Architect to walk the site and prepare a punchlist and for the Contractor to make the necessary corrections prior to move-in.

18. The Contractor shall coordinate and schedule work to be performed by others and shall coordinate exact locations and do all necessary construction, cutting, fitting, and patching that may be required to facilitate the work performed by others as indicated in the contract documents.

19. At the time of bid submission, the Contractor shall identify all long-lead items that may adversely impact the construction schedule. The Contractor warrants by tendering his bid that all of the items specified in the Drawings and specifications will be readily available and that no substitutions will be allowed for an item that was not identified by the Contractor as "long-lead" at the time of bid submission.

20. The Contractor shall, upon contract award, determine the delivery schedule of materials needed for the completion of the Work. He shall procure, deliver, and store materials in sufficient quantity so as not to impede the completion of the Work.

21. All work shall be performed during normal business hours. Work involving excessive noise or work that would otherwise interfere with the normal operation of the facility and/or the comfort of other building occupants shall be done during non-regular hours on an as-required basis. This shall be identified in the bid and will be coordinated through the Owner.

22. The following, not all-inclusive, list of work items shall be coordinated with the Owner: scheduling of time and locations for deliveries, coordination of building access, the use and clearance of available elevators. The Contractor shall determine the extent of, make arrangements for, and include in his bid for: hoisting, carting, elevator service standard, and overtime services by the Owner.

23. Wood materials shall meet applicable codes. They shall be fire retardant treated in accordance with local building codes.

24. Install glass using FGMA standards for the type of system specified. Install tempered glass with no exposed long marks. Remove non-permanent manufacturer's labels. Provide certificate of tempering for review by local code official. Glass shall have chamfered and polished edges. Cut prior to tempering to maintain tolerance/joints plus or minus 1/16-inch. Provide all accessories necessary for a complete installation including glazing tape, neoprene setting blocks, neoprene spacer shims and sealant.

25. Maintain work areas in a secure and lockable condition during construction. Provide, where necessary, temporary lockable doors and keys to maintain constant access and security for the tenant to spaces not under construction.

26. A full-time superintendent or representative shall be provided by the Contractor at the job site at all times who shall supervise and direct the Work according to the specified quality standards.

27. All manufactured articles, materials, and/or equipment shall be installed connected, erected, cleaned, applied and/or conditioned per manufacturer's instructions by the appropriate sub-contractor under the General Contractor's supervision. In case of a discrepancy between the manufacturer's instructions and the contract documents, the Contractor shall obtain written clarification from the Architect prior to proceeding with the Work. The General Contractor shall submit the manufacturer's literature-operational and maintenance-to the Architect and Owner upon completion of the Work and prior to project close out for each appliance or piece of equipment. Submit manufacturer's written warranty for each.

28. Immediately prior to the Owner's occupancy of portion of the area of work, the Contractor shall clean surfaces of dust, debris, loose construction material, and equipment and shall leave floors vacuumed and clean. Remaining construction materials and equipment shall be moved to a storage area as directed by the Owner. The Contractor shall clean windows, window coverings, and blinds and shall vacuum the inside of induction unit enclosures immediately prior to Owner occupancy.

29. The Contractor shall patch and prepare all surfaces as required to receive the scheduled finishes.

30. "Typical" or "Typ" shall mean that the condition is a representative of similar conditions throughout, unless otherwise noted. Details are usually keyed and noted "typ" when they first occur. "Similar" or "sim" means there are comparable characteristics for the conditions noted. Verify dimensions and orientation on plans and elevations.

SECTION 01045 CUTTING AND PATCHING

1.1 General

A. Requirements for structural work: do not cut and patch structural elements in a manner that would change their load-carrying capacity or load-deflection ratio.

1. Obtain approval before cutting and patching the following structural elements:
- Floor slab.
- Bearing walls or columns.

B. Operational limitations: do not cut and patch operating elements in a manner that would reduce their capacity to perform as intended. Do not cut and patch operating elements in a manner that would increase maintenance or decrease operational life or safety.

C. Visual requirements: do not cut and patch exposed construction in a manner that would, in the architect's opinion, reduce the building's aesthetic qualities. Do not cut and patch in a manner that would result in visual evidence of cutting and patching. Remove and replace construction cut and patched in a visually unsatisfactory manner.

D. Existing warranties: replace, patch, and repair material and surfaces cut or damaged in such a manner as not to void warranties.

1.2 Products

A. Use materials identical to existing materials. Use materials that visually match adjacent surfaces to the fullest extent possible if identical materials are unavailable. Use materials whose performance will equal that of existing materials.

1.3 execution

A. Examine surfaces to be cut and patched and conditions under which work is to be performed before cutting. If unsafe or unsatisfactory conditions are encountered, take corrective action.

1. Before proceeding, meet with parties involved. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

B. Temporary support: provide temporary support of work to be cut.

C. Protection: protect existing construction to prevent damage. Provide protection from adverse weather conditions for portions that might be exposed during cutting and patching operations.

D. Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.

E. Avoid cutting pipe, conduit, or ductwork serving the building but scheduled to be removed or relocated until provisions have been made to bypass them.

F. Performance: employ skilled workmen. Proceed at the earliest feasible time and complete without delay.

1. Cut construction to install other components or perform other construction and subsequent fitting and patching required to restore surfaces to their original condition.

G. Cutting: cut using methods that will not damage elements retained or adjoining construction. comply with the original installer's recommendations.

1. Use hand or small power tools designed for sawing or grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
2. To avoid marring finished surfaces, cut or drill from the exposed or finished side into concealed surfaces.
3. Cut through concrete and masonry using a cutting machine, such as a carborundum saw or a diamond-core drill.
4. Where services are required to be removed, relocated, or abandoned, by-pass utility services before cutting. Cut-off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal the remaining pipe or conduit to prevent entrance of moisture or other foreign matter after by-passing and cutting.

H. Patching: patch with durable seams that are as invisible as possible. Comply with specified tolerances.

1. Inspect and test patched areas to demonstrate integrity of the installation.
2. Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
3. Where removing walls or partitions extends one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform color and appearance. remove floor and wall coverings and replace with new materials to achieve uniform color and appearance.
a. Where patching occurs in a smooth painted surface, extend final paint coat over entire surface containing the patch after the area has received primer and second coat.
4. Patch, repair, or rehang ceilings as necessary to provide an even-plane surface of uniform appearance.

I. Cleaning: clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar items. Clean piping, conduit, and similar features before applying paint or finishing materials. Restore damaged pipe covering to its original condition.

SECTION 01300 SUBMITTALS

1.1 General

A. Submittal procedures: coordinate submittal preparation with construction, fabrication, other submittals, and activities that require sequential operations. Transmit in advance of construction operations to avoid delay.

1. Coordinate submittals for related operations to avoid delay because of the need to review submittals concurrently for coordination. The architect reserves the right to withhold action on a submittal requiring coordination until related submittals are received.
2. Processing: allow 2 weeks for initial review. Allow more time if the architect must delay processing to permit coordination. Allow 2 weeks for reprocessing.
a. No extension of contract time will be authorized because of failure to transmit submittals sufficiently in advance of the work to permit processing.
3. Submittal preparation: place a permanent label on each submittal for identification. Provide a 4- by 5-inch space on the label or beside title block to record review and approval markings and action taken. Include the following information on the label for processing and recording action taken.
a. project name.
b. date.
c. name and address of the architect.
d. name and address of the contractor.
e. name and address of the subcontractor.
f. name and address of the supplier.
g. name of the manufacturer.
h. number and title of appropriate specification section.
i. drawing number and detail references, as appropriate.
4. Submittal transmittal: package each submittal appropriately. Transmit with a transmittal form. The architect will not accept submittals from sources other than the contractor.

B. Submittal schedule: after developing the contractor's construction schedule, prepare a schedule of submittals. Submit within 10 days of submittal of the construction schedule.

1. Coordinate with list of subcontracts, schedule of values, list of products, and the contractor's construction schedule.
2. Prepare the schedule in chronological order. Provide the following information:
a. date for first submittal.
b. related section number.
c. submittal category (shop drawings, product data, or samples).
d. name of the subcontractor.
e. description of the work covered.
f. date for the architect's final approval.
3. Schedule distribution: distribute copies of the contractor's construction schedule and the submittal schedule to the architect, owner, subcontractors, and parties required to comply with submittal dates. Post copies in the field office.
a. When revisions are made, distribute to the same parties and post in the same locations. Delete parties from distribution when they have completed their work and are no longer involved in construction activities.
b. Updating: revise the schedule after each meeting or activity where revisions have been made. Issue the updated schedule concurrently with the report of each meeting.
c. Daily construction reports: prepare a daily report recording events at the site. Submit duplicate copies to the architect at weekly intervals. Include the following information:
1. list of subcontractors at the site.
2. high and low temperatures, general weather conditions.
3. accidents and unusual events.
4. stoppages, delays, shortages, and losses.
5. meter readings and similar recordings.
6. emergency procedures.
7. orders and requests of governing authorities.
8. services connected, disconnected.
9. equipment or system tests and startups.
10. substantial completions authorized.
d. Shop drawings: submit newly prepared information drawn to scale. Indicate deviations from the contract documents. Do not reproduce contract documents or copy standard information. Include the following information:
1. dimensions.
2. identification of products and materials included by sheet and detail number.
3. compliance with standards.
4. notation of coordination requirements.
5. notation of dimensions established by field measurement.
6. sheet size: except for templates and full-size drawings, submit one correctable, reproducible print and one blue- or black-line print on sheets at least 8-1/2 by 11 inches but no larger than 36 by 48 inches. the architect will return the reproducible print.
- Do not use shop drawings without an appropriate final stamp indicating action taken.

C. Product data: collect product data into a single submittal for each element of construction. Mark each copy to show applicable choices and options. Where product data includes information on several products, mark copies to indicate applicable information.

1. Include the following information:
a. manufacturer's printed recommendations.
b. compliance with trade association standards.
c. compliance with recognized testing agency standards.
d. application of testing agency labels and seals.
e. notation of dimensions verified by field measurement.
f. notation of coordination requirements.
2. Preliminary submittal: submit a preliminary single copy of product data where selection of options is required.
3. Submittals: submit 2 copies; submit 4 copies where required for maintenance manuals. the architect will retain one and return the other marked with action taken.
a. unless noncompliance with contract documents is observed, the submittal serves as the final submittal.
4. Distribution: furnish copies to installers, subcontractors, suppliers, and others required for performance of construction activities. Show distribution on transmittal forms. Do not proceed with installation until a copy of product data is in the installer's possession.
a. do not use unmarked product data for construction.

D. Samples: submit full-size samples cured and finished as specified and identical with the material proposed. Mount samples to facilitate review of qualities.

1. Include the following:
a. specification section number and reference.
b. generic description of the sample.
c. sample source.
d. product name or name of the manufacturer.
e. compliance with recognized standards.
f. availability and delivery time.
2. Submit samples for review of size, kind, color, pattern, and texture, for a check of these characteristics, and for a comparison of these characteristics between the final submittal and the actual component as delivered and installed. Where variations are inherent in the material, submit at least 3 units that show limits of the variations.
a. refer to other sections for requirements for samples that illustrate workmanship, fabrication techniques, details of assembly, connections, operation, and similar characteristics.
b. refer to other sections for samples to be incorporated in the work. samples must be undamaged at time of use. on the transmittal, indicate special requests regarding disposition of sample submittals.
c. samples not incorporated into the work, or designated as the owner's property, are the contractor's property and shall be removed from the site.
3. Distribution of samples: distribute additional sets to subcontractors, manufacturers, and others as required for performance of the work. Show distribution on transmittal forms.

E. Quality assurance submittals: submit quality-control submittals, including design data, certifications, manufacturer's instructions, and manufacturer's field reports required under other sections of the specifications.

1. Certifications: where certification that a product or installation complies with specified requirements is required, submit a notarized certification from the manufacturer certifying compliance.
a. signature: certification shall be signed by an officer authorized to sign documents on behalf of the company.

F. Except for submittals for the record or information, where action and return are required, the architect will review each submittal, mark to indicate action taken, and return. Compliance with specified characteristics is the contractor's responsibility.

G. Action stamp: architect/engineer will mark action stamp on each submittal cover sheet as follows, to indicate action taken:

1. "No exception taken" - indicates submittal conforms to "design intent" of the work. Contractor may proceed with fabrication, procurement and installation.

2. "Make corrections noted" - indicates submittal, after indicated corrections are made, would conform to the "design intent" of the work. Contractor at their discretion may proceed with fabrication, procurement and installation, provided that the contractor adheres to the corrections noted. resubmit "make correction noted" for architect/engineer final review to conform that revisions have been incorporated, understood and made, and accepted with "no exception taken".

3. "Revise and resubmit" or "rejected" - indicates submittal does not conform to "design intent" of the work. Resubmittal is required. Contractor may not proceed with fabrication, procurement and installation, until resubmittal are accepted with "no exception taken" or "make corrections noted" action as described above.

4. Stamp note: reviewing is only for conformance with design concept of the project and compliance with the information given the contract documents. The contractor is responsible for quantities and dimensions to be confirmed and correlated at the site for information as it pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction and for coordination of the work of all trades. any corrections on this drawing shall not be deemed an order for extra work.

5. Do not permit submittals marked "revise and resubmit," or "rejected," to be used at project site, or elsewhere where work is in progress.

6. Other action: where submittal is primarily for information or record purposes, special processing or other activity, submittal will be returned, marked "action not required."

SECTION 01700 CONTRACT CLOSEOUT

1.1 General

A. Closeout requirements for specific construction activities are included in the appropriate sections in divisions 2 through 16.

B. Substantial completion: before requesting inspection for certification of substantial completion, complete the following:

1. In the application for payment that coincides with, or first follows, the date substantial completion is claimed, show 100 percent completion for the work claimed as substantially complete.
a. Include supporting documentation for completion and an accounting of changes to the contract sum.
2. Advise the owner of pending insurance changeover requirements.
3. Submit specific warranties, workmanship bonds, maintenance agreements, final certifications, and similar documents.
4. Submit record drawings, maintenance manuals, final project photographs, damage or settlement surveys, property surveys, and similar final record information.
5. Deliver tools, spare parts, extra stock, and similar items.
6. Changeover locks and transmit keys to the owner.
7. Complete startup testing of systems and instruction of operation and maintenance personnel. remove temporary facilities, mockups, construction tools, and similar elements.
8. Complete final cleanup requirements, including touchup painting.
9. Touch up and repair and restore marred, exposed finishes.

C. Inspection procedures: on receipt of a request for inspection, the architect will proceed or advise the contractor of unfilled requirements. The architect will prepare the certificate of substantial completion following inspection or advise the contractor of construction that must be completed or corrected before the certificate will be issued.

1. The architect will repeat inspection when requested and assured that the work is substantially complete.
2. Results of the completed inspection will form the basis of requirements for final acceptance.

D. Final acceptance: before requesting inspection for certification of final acceptance and final payment, complete the following:

1. Final payment request with releases and supporting documentation. Include insurance certificates where required.
2. Submit a statement, accounting for changes to the contract sum.
3. Submit a copy of the final inspection list stating that each item has been completed or otherwise resolved for acceptance.
4. Submit final meter readings for utilities, a record of stored fuel, and similar data as of the date of substantial completion.
5. Submit consent of surety to final payment.
6. Submit a final settlement statement.
7. Submit evidence of continuing insurance coverage complying with insurance requirements.

E. Reinspection procedure: the architect will reinspect the work upon receipt of notice that the work has been completed, except for items whose completion is delayed under circumstances acceptable to the architect.

1. Upon completion of reinspection, the architect will prepare a certificate of final acceptance. If the work is incomplete, the architect will advise the contractor of work that is incomplete or obligations that have not been fulfilled but are required.
2. If necessary, reinspection will be repeated.

F. Record document submittals: do not use record documents for construction. Protect from loss in a secure location. Provide access to record documents for the architect's reference.

G. Record drawings: maintain a set of prints of contract drawings and shop drawings. Mark the set to show the actual installation where the installation varies substantially from the work as originally shown. Mark the drawing most capable of showing conditions fully and accurately. give attention to concealed elements.

1. Mark sets with red pencil. use other colors to distinguish between variations in separate categories of the work.
2. Organize record drawing sheets into manageable sets. bind with durable-paper cover sheets; print titles, dates, and other identification on the cover of each set.

H. Record specifications: maintain one copy of the project manual, including addenda. Mark to show variations in work performed in comparison with the text of the specifications and modifications. Give attention to substitutions and selection of options and information on concealed construction. Note related record drawing information and product data.

1. Upon completion of the work, submit record specifications to the architect for the owner's records.

I. Maintenance manuals: organize operation and maintenance data into sets of manageable size. Bind in individual, heavy-duty, 2-inch (51-mm), 3-ring, binders, with pocket folders for folded sheet information. mark identification on front and spine of each binder. Include the following information:

1. Emergency instructions.
2. Spare parts list.
3. Copies of warranties.
4. Wiring diagrams.
5. Shop drawings and product data.

1.3 Execution

A. Operation and maintenance instructions: arrange for each installer of equipment that requires maintenance to provide instruction in proper operation and maintenance. Include a detailed review of the following items:

1. Maintenance manuals.
2. Spare parts, tools, and materials.
3. Lubricants and fuels.
4. Identification systems.
5. Control sequences.
6. Hazards.
7. Warranties and bonds.
8. Maintenance agreements and similar continuing commitments.

B. As part of instruction for operating equipment, demonstrate the following:

1. Startup and shutdown.
2. Emergency operations and safety procedures.
3. Noise and vibration adjustments.

C. Final cleaning: employ experienced cleaners for final cleaning. Clean each surface or unit to the condition expected in a normal, commercial building cleaning and maintenance program. Complete the following operations before requesting inspection for certification of substantial completion.

1. Remove labels that are not permanent labels.
2. Clean transparent materials, including mirrors and glass. Remove glazing compounds. replace chipped or broken glass.
3. Clean exposed finishes to a dust-free condition, free of stains, films, and foreign substances. Leave concrete floors broom clean. Vacuum carpeted surfaces.
4. Wipe surfaces of mechanical and electrical equipment. Remove excess lubrication. Clean plumbing fixtures. Clean light fixtures and lamps.
5. Clean the site of rubbish, litter, and foreign substances. Sweep paved areas; remove stains, spills, and foreign deposits. Rake grounds to a smooth, even-textured surface.

D. Pest control: engage a licensed exterminator to make a final inspection and rid the project of rodents, insects, and other pests.

E. Removal of protection: remove temporary protection and facilities.

F. Compliance: comply with regulations of authorities having jurisdiction and safety standards for cleaning. Remove waste materials and dispose of lawfully.

SECTION 03540 - SELF LEVELING FLOORING

A. DESCRIPTION

1. Provide a self-drying, self-leveling cementitious topping in accordance with the contract documents.
2. Provide labor, material, equipment, and services necessary to complete the cementitious topping work as herein specified.
3. This system consists of a primer and a mix of special cements and binders which, when mixed with water, becomes a highly liquid cement compound that seeks its own level and produces a flat, smooth surface. Surface shall be true to plane within 1/16" maximum deviation under a 10' straight edge in accordance with ACI 302 1R-89, Flatness Tolerance.

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NO.	REVISION/ISSUE	DATE
2.	ISSUE FOR BID	05/10/2017
1.	ISSUE FOR 90% REVIEW	05/01/2017

SEAL

PROJECT
INTERIOR RENOVATION
CAMPUS CENTER SOUTH

DATE:	03/28/2017
PROJECT NO:	DA 16169 / SU 022317
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE
ARCHITECTURAL SPECIFICATIONS

SHEET NO.
A-SPEC-01

SECTION 03540 - SELF LEVELING FLOORING (continued)

B. QUALIFICATIONS
1. Installation of the cement-based, self-leveling topping must be by an applicator using mixing equipment and tools approved by the manufacturer.
2. Provide ARDEX SD-T Self-Drying, Self-Leveling Concrete Topping as manufactured by ARDEX ENGINEERED CEMENTS INC., 1155 Stoops Ferry Road, Coraopolis, PA15108.
   a. Topping shall be able to be installed from 1/4" to 2" in one pour, but may be tapered to match existing elevations.
   b. Topping to be applied to a min thickness of 1/4" over the highest points in the subfloor.
   c. Topping material shall achieve compressive strength of approximately 6100 psi per ASTM C109/modified (air-cure only).
   d. Topping shall be walkable after 2 - 3 hours at 70% and be able to be coated with a water-borne coating as soon as it can be worked on without damage.
   e. After proper substrate preparation, topping shall be suitable for use over new or old indoor concrete: unfinished conc., rough conc., spalled or deteriorated conc., etc.

C. SUBMITTALS
1. Product data; submit:
   a. Materials list of items proposed to be provided under the section.
   b. Manufacturer's specifications, current product literature and other data needed to prove compliance with the specified requirements.
   c. Manufacturer's certification that the product is cement-based having an inorganic binder which is a minimum 80% Portland cement when tested in accordance with ASTM C 150, Standard Specification for Portland Cement.
   d. Manufacturer's certification that the product specified is suitable for the intended use when installed according to the parameters described in the manufacturer's literature and installation instructions.
2. Test areas: At an area on site, where approved by the architect, provide a test installation as follows:
   a. The test area shall be installed using procedures and under conditions which will reflect the actual installation. The size of the area shall be eight x eight feet.
   b. Acceptance shall deem the test area the standard by which the remainder of the work shall be compared for the purposes of acceptance or rejection.

D. DELIVERY, STORAGE AND HANDLING
1. Deliver materials in their unopened packages and protect from extreme temperatures and moisture. Protect liquids from freezing.

E. MATERIALS
1. Primer for standard absorbent concrete shall be ARDEX P-51 Primer.
2. The cement-based, self-drying self-leveling topping shall be ARDEX SD-T Self-Drying, Self-Leveling Concrete Topping.
3. Water shall be clean, potable, and sufficiently cool (not warmer than 70%F).
4. Wear surface: The finished SD-T surface shall be coated with a suitable wear protection system as soon as 2 hours after the SD-T installation.
5. All material to be freshly stocked not less than 30 days on shelf.

F. PREPARATION
1. All standard absorbent concrete surfaces must be solid, thoroughly cleaned and properly primed.
2. All subfloors must be of adequate strength, clean, and free of all oil, grease, dirt, curing compounds and any substance which might act as a bondbreaker before priming. Mechanically clean if necessary using shot-blasting or other. Acid etching and the use of solvents is not acceptable.
3. All cracks in the subfloor shall be repaired to prevent telegraphing through the underlayment.
4. ARDEX SD-T is a cementitious material. Observe the basic rules of concrete work. Do not install below 50%F surface temperature. Install quickly if floor is warm and follow hot weather precautions available from the ARDEX Technical Service Department. Never mix with cement or additives other than ARDEX-approved products.

G. PRIMING
1. Primer for standard absorbent concrete: Mix ARDEX P-51 1:1 with water and apply evenly with a soft pushbroom. Do not leave any bare spots. Remove all puddles and excess primer. Allow to dry to a clear, thin film (min. 3 hours, max. 24 hours). Underlayment shall not be applied until primer is dry. Primer coverage approximately 400 to 600 square feet per gallon.
2. Primer for extremely absorbent concrete: Make an initial application of ARDEX P-51 mixed with 3 parts water using a soft pushbroom. Do not leave any bare spots. Remove all puddles and excess primer. Allow to dry thoroughly before proceeding with a standard application of primer as described above.
3. Very smooth, highly power-troweled concrete may have a surface which is nonabsorbent. Such surfaces must be mechanically prepared to achieve a rough, porous surface prior to priming with P-51 Primer.

H. INSTALLATION
1. Standard mixing ratio: ARDEX SD-T is mixed in 2-bag batches at one time. Mix each bag of ARDEX SD-T (50 lbs.) with 4.75 quarts of water. Product shall be mixed in an ARDEX T-10 Mixing Drum using an ARDEX T-1 Mixing Paddle and a 1" heavy-duty drill (min. 650 rpm). Mix thoroughly for approximately 2 - 3 minutes to obtain a lump-free mixture. Follow written instructions as per ARDEX SD-T bag label.
2. For pump installations, ARDEX SD-T shall be mixed using the ARDEX Levelcraft II Automatic Mixing Pump. Start the pump at 150 gallons of water per hour, then adjust downward to the minimum water reading which still allows self-leveling properties. DO NOT OVERWATER! Conditions during the installation, such as variations in water, powder, substrate and ambient temperature, require that the water setting be monitored and adjusted carefully to avoid overwatering.
3. Pour or pump the liquid ARDEX SD-T and spread in place with the ARDEX T-4 Spreader. Use the ARDEX T-5 Smoother for featheredge and touch-up. Wear baseball shoes with non-metallic cleats to avoid leaving marks in the liquid ARDEX SD-T.
4. Topping can be walked on often in as little as 2 hours at @ 70%F/50% R.H.
5. Topping shall be protected from wear, oil, salt and water by applying a suitable wear protection system such as a water-based acrylic or water-borne two-part epoxy sealer or similar. Coating can proceed as soon as the surface of the ARDEX SD-T is sufficiently hard to work on without damaging it. Surface traffic can proceed as prescribed by the manufacturer of the sealer. Please consult ARDEX prior to installing any epoxy coatings.

SECTION 05400 LIGHT GAUGE METAL FRAMING

A. Provide light gage metal framing studs for studs indicated as greater than 20 gage. Fabricate metal framing components of structural quality steel sheet with a minimum yield point of 50,000 psi; ASTM A 446, Grade D.
B. Install light gauge metal framing and accessories plumb, square, true to line, and with connections securely fastened, according to manufacturer's recommendations and the requirements of this Section.
   1. Cut framing members by sawing or shearing; do not torch cut.
   2. Fasten cold-formed metal framing members by welding or screw fastening, as standard with fabricator. Wire tying of framing members is not permitted.
      a. Comply with AWS requirements and procedures for welding, appearance and quality of welds, and methods used in correcting welding work.
      b. Locate mechanical fasteners and install according to cold-framed metal framing manufacturer's instructions and specification with screw penetrating joined members by not less than 3 exposed screw threads.
C. Install framing members in one-piece lengths, unless splice connections are indicated for track or tension members.
D. At track butt joints, abutting pieces of track shall be securely anchored to a common structural element, or they shall be butt welded or spliced together.
E. Provide temporary bracing and leave in place until framing is permanently stabilized.
F. Do not bridge building expansion and control joints with cold-formed metal framing. Independently frame both sides of joints.
G. Set studs plumb, except as needed for diagonal bracing or required for nonplumb walls or warped surfaces and similar requirements.
H. Erection Tolerances: Install cold-formed metal framing to a maximum allowable tolerance variation from plumb, level, and true to line of 1/8 inch in 10 feet and as follows:
I. Space individual framing members no more than plus or minus 1/8 inch from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.
J. Field Touch-up: Touch-up damaged shop-applied protective coatings and welds. Use compatible galvanizing repair system for galvanized surfaces.
K. Installation of Wall Studs: Secure studs to top and bottom runner tracks by either welding or screw fastening at both inside and outside flanges.
L. Install horizontal stiffeners in stud system, spaced (vertical distance) at not more than 48 inches o.c. Attach with clip angle and screws, or weld at each intersection.
   1. Bridging: Cold-rolled steel channel, clip angle fastened to webs of punched studs.

SECTION 05500 METAL FABRICATIONS

A. Provide miscellaneous framing and supports as indicated or as required.
B. Steel Plates, Shapes, and Bars: ASTM A 36.
C. Shop Primer for Ferrous Metal: Tnemec Modified oil-alkyd primer, No. FM88-551 or 10-1009, color gray.
D. Form metal fabrications from materials of size, thickness, and shapes indicated but not less than that needed to comply with performance requirements indicated. Work to dimensions indicated or accepted on shop drawings, using proven details of fabrication and support. Use type of materials indicated or specified for various components of each metal fabrication.
E. Form exposed work true to line and level with accurate angles and surfaces and straight sharp edges.
F. Allow for thermal movement resulting from temperature change in the design, fabrication, and installation of installed metal assemblies to prevent buckling, opening up of joints, and overstressing of welds and fasteners.
G. Shear and punch metals cleanly and accurately. Remove burrs.
H. Ease exposed edges to a radius of approximately 1/32 inch, unless otherwise indicated. Form bent metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
I. Remove sharp or rough areas on exposed traffic surfaces.
J. Weld corners and seams continuously to comply with AWS recommendations and the following:
   1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
   2. Obtain fusion without undercut or overlap.
   3. Remove welding flux immediately.
   4. At exposed connections, finish exposed welds and surfaces smooth and blended so that no roughness shows after finishing and contour of welded surface matches those adjacent.
K. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners wherever possible. Use exposed fasteners of type indicated or, if not indicated, Phillips flat head (countersunk) screws or bolts. Locate joints where least conspicuous.
L. Provide for anchorage of type indicated; coordinate with supporting structure. Fabricate and space anchoring devices to provide adequate support for intended use.
M. Shop Assembly: Preassemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.
N. Cut, reinforce, drill and tap miscellaneous metal work as indicated to receive finish hardware, screws, and similar items.
O. Fabricate joints that will be exposed to weather in a manner to exclude water, or provide weep holes where water may accumulate.
P. Fastening fabrications to In?Place Construction: Provide anchorage devices and fasteners where necessary for securing miscellaneous metal fabrications to in place construction; include threaded fasteners for concrete and masonry inserts, toggle bolts, through?bolts, lag bolts, wood screws, and other connectors as required.
Q. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installation of miscellaneous metal fabrications. Set metal fabrication accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.
R. Provide temporary bracing or anchors in formwork for items that are to be built into concrete masonry or similar construction.
S. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints, but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade the surfaces of exterior units which have been hot?dip galvanized after fabrication, and are intended for bolted or screwed field connections.
T. Field Welding: Comply with AWS Code for procedures of manual shielded metal arc welding, appearance and quality of welds made, methods used in correcting welding work, and the following:
   1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
   2. Obtain fusion without undercut or overlap.
   3. Remove welding flux immediately.
   4. At exposed connections, finish exposed welds and surfaces smooth and blended so that no roughness shows after finishing and contour of welded surface matches those adjacent.
U. Fabricate loose structural steel lintels from steel angles and shapes of size indicated for openings and recesses in masonry walls and partitions at locations indicated. Size loose lintels for not less than 8 inches bearing at each side of openings, unless otherwise indicated. Galvanize loose steel lintels located in exterior walls.
V. Galvanizing: For those items indicated for galvanizing, apply zinc coating by the hot dip process complying with the following requirements:
   1. ASTM A 123 for galvanizing both fabricated and unfabricated iron and steel products made of uncoated rolled, pressed, and forged shapes, plates, bars, and strip 0.0249 inch (0.76 mm) thick or thicker.

SECTION 06100 ROUGH CARPENTRY

A. Where fire-retardant-treated wood is indicated, comply with applicable requirements of APPA C20 (lumber) and APPA C27 (plywood). Identify fire-retardant-treated wood with appropriate classification marking of UL, U.S. Testing, Timber Products Inspection, Inc., or another testing and inspecting agency acceptable to authorities having jurisdiction.
   1. Interior Type A: For interior locations, use chemical formulation that produces treated lumber and plywood with the following properties under conditions present after installation:
   2. Contact with treated wood does not promote corrosion of metal fasteners.
B. Pressure treat wood with high purity oxide CCA waterborne preservatives to a minimum retention of 0.40 lb/cu. ft.After treatment, kiln-dry lumber and plywood to a maximum moisture content of 19 and 15 percent, respectively.
C. Inspect each piece of treated lumber or plywood after drying and discard damaged or defective pieces.
D. Plywood Backing Panels: For mounting electrical or telephone equipment, provide fire-retardant-treated plywood panels with grade, C-D Plugged Exposure 1, in thickness indicated or, if not otherwise indicated, not less than 23/32 inch thick.
E. Install wood blocking, where shown and where required for attaching other work. Form to shapes shown and cut as required for true line and level of attached work. Coordinate locations with other work involved.
F. Attach to substrates to support applied loading. Recess bolts and nuts flush with surfaces, unless otherwise indicated. Build into masonry during installation of masonry work. Where possible, anchor to formwork before concrete placement.
G. Fastening Methods: Plywood Backing Panels: Screw to supports.

SECTION 07210 BUILDING INSULATION

A. Provide unfaced mineral-fiber blanket insulation combining glass fibers with thermosetting resins to comply with ASTM C 665, Type I (blankets without membrane facing).
   1. Surface-Burning Characteristics: Maximum flame-spread and smoke-developed indices of 25 and 50, respectively.
   2. Thermal Resistivity (R-value)
      a. 3-1/2-inch - R-11 deg F x h x sq. ft./Btu, at 75 deg F.
      b. 6-inch - R-19 deg F x h x sq. ft./Btu, at 75 deg F.
B. Where Vapor retarder is indicated, provide foil-polyester film vapor retarder consisting of 2 layers of 0.5-mil-thick polyester film laminated to an inner layer of 1-mil-thick aluminum foil, with maximum water-vapor transmission rate in flat condition of 0.0 g/h x sq. m and with maximum flame-spread and smoke-developed indices of 15 and 5, respectively. Alumiseal Zero Perm; Alumiseal Corporation.
C. Tape for Foil-Polyester Film Vapor-Retarder: Pressure sensitive tape of type recommended by vapor retarder manufacturer for sealing joints and penetrations in vapor retarder. "Alumiseal Zero Perm Pressure Sensitive Tape," by Alumiseal Corp.
D. Extend insulation in thickness indicated to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.
E. Apply single layer of insulation to produce thickness indicated, unless multiple layers are otherwise shown or required to make up total thickness.
F. Set vapor-retarder-faced units with vapor retarder to warm side of construction, unless otherwise indicated. Do not obstruct ventilation spaces, except for firestopping. Refer to Vapor Retarder Section.
G. Extend vapor retarder to extremities of areas to be protected from vapor transmission. Secure in place with adhesives or other anchorage system as indicated. Extend vapor retarder to cover miscellaneous voids in insulated substrates, including those filled with loose-fiber insulation.
H. Seal overlapping joints in vapor retarders with adhesives or vapor-retarder tape according to vapor retarder manufacturer's instructions. Seal butt joints and fastener penetrations with vapor-retarder tape. Locate all joints over framing members or other solid substrates.
I. Firmly attach vapor retarders to substrates with adhesives as recommended by vapor retarder manufacturer.
J. Seal joints caused by pipes, conduits, electrical boxes, and similar items penetrating vapor retarders with vapor-retarder tape to create an airtight seal between penetrating objects and vapor retarder.
K. Repair any tears or punctures in vapor retarders immediately before concealment by other work. Cover with vapor-retarder tape or another layer of vapor retarder.

SECTION 07840 FIRESTOPPING

A. Firestop the following:
   1. All through nail penetrations for fire resistance rated wall construction assemblies, containing cables, pipes, ducts, conduits, and other through-wall penetrating items.
   2. All head of walls at intersection of rated nail partitions with roof decks above.
B. Fire Test Response Characteristics: Provide firestopping that complies with the following requirements and those specified under the "System Performance Requirements" paragraph:
   1. Firestopping tests must performed by Underwriters' Laboratories.
   2. Through penetration firestop systems are identical to those tested per ASTM E 814 under conditions where positive furnace pressure differential of at least 0.01 inch of water is maintained at a distance of 0.10 inch below the fill materials surrounding the penetrating items in the test assembly.
   3. Fire resistive joint sealant systems are identical to those tested for fire response characteristics per ASTM E 1119 under conditions where the positive furnace pressure differential is at least 0.01 inch of water, as measured 0.18 inch from the face exposed to furnace fire.
   4. Ratings of Firestopping: Provide systems indicated in the UL "Fire Resistance Directory."
C. Install Firestopping systems in compliance with Through-Penetration Firestop Systems (XHEZ) and Joint Systems (XHBN) listed in Volume II of the UL Fire Resistance Directory (BXRH), and the system manufacturer requirements.
D. Install firestopping system at all through-penetrations at all rated fire barriers.
E. Install firestopping system at all construction joints and gaps between edges of floor slabs and rated walls, at heads of rated walls.
F. Install fill materials for through penetration firestop systems by proven techniques to produce the following results:
   1. Completely fill voids and cavities formed by openings, forming materials, accessories, and penetrating items.
   2. Apply fire-resistant sealant materials so they contact and adhere to substrates formed by openings and penetrating items.
   3. For fill materials that will remain exposed after completing work, finish to produce smooth, uniform surfaces that are flush with adjoining finishes.
G. Install top of wall firestop systems by proven techniques to produce the following results:
   1. Install packing material in gaps between top of partition and metal deck or floor slab above.
   2. Install packing materials of proper size in areas indicated, leaving no voids. Cut packing material wider than opening to ensure compression fit.
   3. Install packing material full depth of stud minus 1/2 for sealant at each face, or flush with face in accordance with UL design.
   4. Seal all joints between packing material and other materials with 1/2" of fire-resistant sealant compound or spray joints between packing material and other materials with 1/8" to 1/4" of fire-resistant coating compound.

SECTION 07920 JOINT SEALANTS

A. Seal exterior joints in the following vertical surfaces and nontraffic horizontal surfaces:
   1. Control and expansion joints in cast-in-place concrete.
   2. Control and expansion joints in unit masonry.
   3. Joints between different materials listed above.
   4. Perimeter joints of frames or doors and windows.
   5. Control and expansion joints in ceiling and overhead surfaces.
   6. Other joints as indicated.
B. Seal interior joints in the following vertical surfaces and horizontal nontraffic surfaces:
   1. Control and expansion joints on exposed interior surfaces of exterior walls.
   2. Perimeter joints of exterior openings where indicated.
   3. Tile control and expansion joints.
   4. Vertical control joints on exposed surfaces of interior unit masonry and concrete walls and partitions.
   5. Perimeter joints between interior wall surfaces and frames of interior doors, windows, and elevator entrances.
   6. Joints between plumbing fixtures and adjoining walls, floors, and counters.
   7. Other joints as indicated.
C. Environmental Conditions: Do not proceed with installation of joint sealants under the following conditions:
   1. When ambient and substrate temperature conditions are outside the limits permitted by joint sealant manufacturer.
   2. When joint substrates are wet.
D. Acrylic-Emulsion Sealant: Manufacturer's standard, one part, nonsag, mildew-resistant, paintable latex acrylic-emulsion sealant complying with ASTM C 834, formulated to be paintable and recommended for exposed applications on interior locations involving joint movement of not more than plus or minus 5 percent. Provide at general interior use, paintable.
E. Single-Component Mildew-Resistant Silicone Sealant: Manufacturer's standard, non-modified, one-part, silicone sealant; complying with ASTM C 920, Type S, Grade NS, Class 25, Uses NT, G, A, and, as applicable to non-porous joint substrates indicated, O. Formulate sealant with fungicide and specifically intended for sealing interior joints with nonporous substrates and subject to in-service exposure to conditions of high humidity and temperature extremes. Provide at interior use in wet locations, and
F. Multicomponent Nonsag Urethane Sealant: Manufacturer's standard, non-modified, multi-part, nonsag urethane sealant; complying with ASTM C 920, Type M, Grade NS, Class 25, Uses NT, M, G, A, and as applicable to joint substrates indicated, O. Provide at general exterior use and interior use for exposed concrete or masonry wall control joints.
G. Provide sealant backings of material and type that are nonstaining; are compatible with joint substrates, sealants, primers and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
H. Sealant Installation Standard: Comply with recommendations of ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
   1. Tooling of Nonsag Sealants: Immediately after sealant application and prior to time skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated, to eliminate air pockets, and to ensure contact and adhesion of sealant with sides of joint. Remove excess sealants from surfaces adjacent to joint. Do not use tooling agents that discolor sealants or adjacent surfaces or are not approved by sealant manufacturer.
      i. Provide concave joint configuration per Figure 5A in ASTM C 1193, unless otherwise indicated.

SECTION 08110 STANDARD STEEL DOORS AND FRAMES

A. Submit Door Schedule of doors and frames using same reference numbers for details and openings as those on Contract Drawings.
   1. Indicate coordination of glazing frames and stops with glass and glazing requirements.
B. Provide doors and frames complying with ANSI/SDI 100 "Recommended Specifications for Standard Steel Doors and Frames" and as specified.
C. Fire-Rated Door Assemblies: Units that comply with NFPA 80, are identical to door and frame assemblies tested for fire-test-response characteristics per ASTM E 152, and are labeled and listed by UL, Warnock Hersey, or another testing and inspecting agency acceptable to authorities having jurisdiction.
D. Steel Doors: Provide 1-3/4-inch- thick doors of materials and ANSI/SDI 100 grades and models specified below, or as indicated on Drawings or schedules:
   1. Exterior Doors: Grade III, extra heavy-duty, Model 2A, seamless design, minimum 14 ga., thick galvanized steel sheet faces.
   2. Interior Doors: Grade II, heavy-duty, Model 1, full flush design, minimum 16 ga., thick cold-rolled steel sheet faces; except as noted below.
E. Provide metal frames for doors, transoms, sidelights, borrowed lights, and other openings, according to ANSI/SDI 100, and of types and styles as shown on Drawings and schedules. Conceal fastenings, unless otherwise indicated. Fabricate frames of cold-rolled steel sheet and as follows:
   1. Fabricate frames with mitered or coped and continuously welded corners, ground smooth. Provide knock down frames with mitered or coped corners for field assembly only where noted on schedule.
   2. Form exterior frames from 14 ga. thick galvanized steel sheet.
   3. Fabricate frames for interior openings minimum 16 ga. thick steel sheet.
F. Door Silencers: Except on weatherstripped frames, drill stops to receive 3 silencers on strike jambs of single-door frames and 2 silencers on heads of double-door frames.
G. Fabricate steel door and frame units to be rigid, neat in appearance, and free from defects, warp, or buckle. Where practical, fit and assemble units in manufacturer's plant. Clearly identify work that cannot be permanently factory assembled before shipment, to assure proper assembly at Project site. Comply with ANSI/SDI 100 requirements.
   1. Internal Construction: Provide the following manufacturer's standard core materials according to SDI standards:
      a. Resin-impregnated paper honeycomb, except as noted below.
      b. Rigid polyurethane conforming to ASTM C 591, at all exterior doors.
   2. Clearances: Not more than 1/8 inch at jambs and heads, except not more than 1/4 inch between non-fire-rated pairs of doors. Not more than 3/4 inch at bottom.
      a. Fire Doors: Provide clearances according to NFPA 80.
H. Tolerances: Comply with SDI 117 "Manufacturing Tolerances Standard Steel Doors and Frames."
I. Galvanized Steel Doors, Panels, and Frames: At exterior locations, fabricate doors, panels, and frames from galvanized steel sheet according to SDI 112. Close top and bottom edges of doors flush as an integral part of door construction or by addition of minimum 0.0635-inch thick galvanized steel channels, with channel webs placed even with top and bottom edges. Seal joints in top edges of doors against water penetration.
J. Hardware Preparation: Prepare doors and frames to receive mortised and concealed hardware according to final door hardware schedule and templates provided by hardware supplier. Comply with applicable requirements of SDI 107 and ANSI A115 Series specifications for door and frame preparation for hardware.
K. Locate hardware as indicated on Shop Drawings or, if not indicated, according to the Door and Hardware Institute's (DHI) "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
L. Glazing Stops: Minimum 20 ga. thick steel.
   1. Provide nonremovable stops on outside of exterior doors and on secure side of interior doors for glass, louvers, and other panels in doors.
   2. Provide screw-applied, removable, glazing beads on inside of glass, louvers, and other panels in doors.
M. Comply with NAAMM's "Metal Finishes Manual" for recommendations relative to applying and designating finishes.
N. Install steel doors, frames, and accessories according to Shop Drawings, manufacturer's data, and as specified.
O. Placing Frames: Comply with provisions of SDI 105, unless otherwise indicated. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After nail construction is completed, remove temporary braces and spreaders, leaving surfaces smooth and undamaged.
   1. Place frames before constructing enclosing walls and ceilings. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After nail construction is completed, remove temporary braces and spreaders leaving surfaces smooth and undamaged. Secure frames to floor and wall construction.
   2. Provide anchors adjacent to hinge location on hinge jamb and at corresponding heights on strike jamb.
   3. At masonry construction, set frames and grout in place.
   4. At in-place concrete or existing masonry construction, set frames and secure to adjacent construction with bolts and masonry anchorage devices.
   5. In metal-stud partitions, attach wall anchors to studs with screws.
   6. Install fire-rated frames according to NFPA 80.
P. Door Installation: Fit hollow-metal doors accurately in frames, within clearances specified in ANSI/SDI 100.
   1. Fire-Rated Doors: Install with clearances specified in NFPA 80.

SECTION 08710 DOOR HARDWARE

A. Fire Rated Openings: Provide door hardware for fire rated openings that complies with NFPA Standard No. 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by UL, Warnock Hersey, FM, or other testing and inspecting organization acceptable to authorities having jurisdiction for use on types and sizes of doors indicated in compliance with requirements of fire?rated door and door frame labels.
B. Mount hardware units at heights indicated in following applicable publications, except as specifically indicated or required to comply with governing regulations and except as otherwise directed by Architect.
   1. "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute.
C. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with finishing work specified in the Division 9 Sections. Do not install surface mounted items until finishes have been completed on the substrates involved.
D. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
E. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

SECTION 09255 GYPSUM BOARD ASSEMBLIES

A. Provide steel framing members with protective coating complying with ASTM A 653, G 40 (ASTM A 653M, Z 90) hot-dip galvanized coating.
B. Steel Studs: ASTM C 645, with flange edges of studs bent back 90 degrees and doubled over to form 3/16-inch-wide minimum lip (return), and complying with the following requirements for minimum thickness of base (uncoated) metal and for depth:
   1. Thickness: 20 gauge, except as noted below unless heavier gauges are indicated for specific locations. Provide 16 gage studs at the following locations:
      a. Tiled toilet and shower room walls.
      b. Fire-rated walls where required for fire rating (per UL Design)
      c. For head runner, sill runner, jamb, and cripple studs at door and other openings.
      d. Where indicated.
   2. Depth: 3-5/8 inches unless otherwise indicated.
C. Slip Track: Manufacturer's 16 gage slip track complying with the requirements of ASTM C 645 and with 2-inch-deep flanges.
D. Floor Track: Manufacturer's bottom runner matching stud gage, complying with the requirements of ASTM C 645 and with 1-1/4-inch-deep flanges.
E. Steel Rigid Furring Channels: ASTM C 645, hat shaped, depth and minimum thickness of base (uncoated) metal as follows:
   1. Thickness: 25 gauge.
   2. Depth: 7/8 inch.
F. Provide gypsum board of types indicated in maximum lengths available that will minimize end-to-end butt joints in each area indicated to receive gypsum board application. Provide gypsum board in widths of 48 inches.
G. Gypsum Wallboard: ASTM C 36, tapered edges, Type X for fire resistance rated assemblies and regular type elsewhere, in 5/8" thickness unless otherwise indicated.
H. Water-Resistant Gypsum Backing Board: ASTM C 630, tapered edges, Type X for fire resistance rated assemblies and Regular type elsewhere, in 5/8 inch thickness unless otherwise indicated. Do not use on ceilings.
I. Accessories: Cornerbead, edge trim, and control joints formed from steel sheet zinc coated by hot-dip process or rolled zinc complying with ASTM C 1047, in shapes indicated below by reference to Fig. 1 designations in ASTM C 1047.
   1. Cornerbead on outside corners, unless otherwise indicated. USG 'Durabead' or equivalent.
   2. LC-bead with both face and back flanges; face flange formed to receive joint compound. Use LC-beads for edge trim, unless otherwise indicated, and where 'J-bead' is referenced. USG No. 200-A, or equivalent.
   3. L-bead with face flange only; face flange formed to receive joint compound. Use L-bead where indicated. USG No. 200-B, or equivalent.
   4. One-piece control joint formed from rolled zinc with V-shaped slot and removable strip covering slot opening. USG No. 093, or equivalent.
J. Provide joint treatment materials complying with ASTM C 475 and the recommendations of both the manufacturers of sheet products and of joint treatment materials for each application indicated.
K. Provide steel drill screws complying with ASTM C 1002 for fastening gypsum board to steel members less than 0.033 in thick.
L. Provide steel drill screws complying with ASTM C 954 for fastening gypsum board to steel members from 0.033 to 0.112 in thick.
M. Sound-Attenuation Blankets: Unfaced mineral-fiber blanket insulation produced by combining mineral fibers of type described below with thermosetting resins to comply with ASTM C 665 for Type I (blankets without membrane facing). Provide units bearing U.L. classification marking and complying with assembly requirements for rated partitions.
N. Steel Framing Installation Standard: Install steel framing to comply with ASTM C 754 and with ASTM C 840 requirements that apply to framing installation.
O. Install supplementary framing, blocking, and bracing at terminations in gypsum board assemblies to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction. Comply with details indicated and with recommendations of gypsum board manufacturer or, if none available, with United States Gypsum Co.'s "Gypsum Construction Handbook."
P. Isolate steel framing from building structure to prevent transfer of loading imposed by structural movement. Comply with details shown on Drawings.
   1. Where partition framing abut structure, except at floor, install slip track top runner to attain lateral support and avoid axial loading.
Q. Do not bridge building control and expansion joints with steel framing or furring members. Independently frame both sides of joints with framing or furring members as indicated.

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SEAL

PROJECT
INTERIOR RENOVATION
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DATE:	03/28/2017
PROJECT NO:	DA 16169 / SU 022317
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE
ARCHITECTURAL SPECIFICATIONS

SHEET NO.
A-SPEC-02

SECTION 09255 GYPSUM BOARD ASSEMBLIES (continued)

R. Extend partition framing full height to structural supports or substrates above suspended ceilings, except where partitions are indicated to terminate at suspended ceilings. Continue framing over frames for doors and openings and frame around ducts penetrating partitions above ceiling to provide support for gypsum board.
   1. Provide slip track at head of studs, with 1/2" clearance left between the track and studs for deflection.
S. Install steel studs and furring in sizes indicated and at 16 inch o.c. spacings.
T. Frame all door openings to comply with GA-219 for heavy doors, and with applicable published recommendations of gypsum board manufacturer, unless otherwise indicated. Attach vertical studs at jambs with screws either directly to frames or to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs. Install two full height 16 gage studs at each jamb.
U. Gypsum Board Application and Finishing Standards: Install and finish gypsum panels to comply with ASTM C 840, GA-216, and the Gypsum Association 'Recommended Specification: Levels of Gypsum Board Finish' for wall finish scheduled.
V. Levels of Gypsum Board Finish: Provide level of gypsum board finish per GA-214 'Recommended Specification: Levels of Gypsum Board Finish' for wall finish scheduled, and as follows:
   1. Level 1 for ceiling plenum areas, concealed areas, and where indicated, unless a higher level of finish is required for fire-resistance-rated assemblies and sound-rated assemblies.
   2. Level 2 where panels form substrates for tile.
   3. Level 4 for gypsum board surfaces, unless otherwise indicated.
W. Use the following joint compound combination for water-resistant gypsum backing board as applicable to the finish levels specified:
   1. Embedding and First Coat: Job mixed setting-type joint compound.
   2. Fill (Second) Coat: Job mixed setting-type joint compound.
   3. Finish (Third) Coat: Job mixed sandable, setting-type joint compound. Omit Finish Coat on water-resistant gypsum backing board to receive ceramic tile finish.
X. Use the following joint compound to the finish levels specified, except as noted above:
   1. Embedding and First Coat: Ready-mixed, drying-type, taping compound.
   2. Fill (Second) Coat: Ready-mixed, drying-type, all-purpose compound.
   3. Finish (Third) Coat: Ready-mixed, drying-type, topping compound.

SECTION 09511 ACOUSTICAL PANEL CEILINGS

A. Acoustical Panel Standard: Provide manufacturer's standard panels of configuration indicated that comply with ASTM E 1264 classifications as designated by types, patterns, acoustical ratings, and light reflectances.
B. Ceiling Panels: Provide ceiling panels products indicated on Drawings.
C. Metal Suspension System Standard: Provide manufacturer's standard direct-hung metal suspension systems of types, structural classifications, and finishes indicated that comply with applicable ASTM C 635 requirements, unless otherwise noted on drawings.
D. Wide Face, Capped, Double Web, Hot-Dip Galvanized-Steel Suspension System: Main and cross runners roll formed and rotary stitched, cold rolled steel sheet, hot-dip galvanized according to ASTM A 653, G30 coating designation, with prefinished, 15/16-inch- wide, metal caps on flanges; complying with applicable ASTM C 635 requirements, and other characteristics as follows:
   1. Structural Classification: Heavy Duty System.
   2. Face Design: Flush capped faces without slot or reveal.
   3. Cap Material and Finish: Galvanized steel sheet painted in color to match panels.
E. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung, unless otherwise indicated.
F. Wire Hangers, Braces, and Ties: Provide wires complying with the following requirements:
   1. Zinc-Coated Carbon-Steel Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper.
   2. Size: Select wire diameter so its stress at three times hanger design load (ASTM C 635, Table 1, Direct Hung) will be less than yield stress of wire, but provide not less than 0.106-inch- diameter wire.
G. General: Install acoustical panel ceilings to comply with publications referenced below per manufacturer's written instructions and CISCA's "Ceiling Systems Handbook."
   1. Standard for Ceiling Suspension Systems Requiring Seismic Restraint: Comply with ASTM E 580.
   2. CISCA's Recommendations for Acoustical Ceilings: Comply with CISCA's "Recommendations for Direct-Hung Acoustical Tile and Lay-in Panel Ceilings--Seismic Zones 0-2."
   3. CISCA's Guidelines for Systems Requiring Seismic Restraint: Comply with CISCA's "Guidelines for Seismic Restraint of Direct-Hung Suspended Ceiling Assemblies--Seismic Zones 3 & 4."
H. Suspend ceiling hangers from building's structural members and as follows:
   1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
   2. Splay hangers only where required to miss obstructions; offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
   3. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards and publications.
   4. Secure wire hangers to ceiling suspension members and to supports above with a minimum of three tight turns. Connect hangers directly either to structures or to inserts, eye screws, or other devices that are secure; that are appropriate for substrate; and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.
   5. Do not support ceilings directly from permanent metal forms or floor deck. Fasten hangers to cast-in-place hanger inserts, powder-actuated fasteners, or drilled-in anchors that extend through forms into concrete.
   6. Do not attach hangers to steel deck tabs.
   7. Do not attach hangers to steel roof deck. Attach hangers to structural members.
   8. Space hangers not more than 48 inches o.c. along each member supported directly from hangers, unless otherwise indicated; and provide hangers not more than 8 inches from ends of each member.
I. Secure bracing wires to ceiling suspension members and to supports with a minimum of four tight turns. Suspend bracing from building's structural members as required for hangers, without attaching to permanent metal forms, steel deck, or steel deck tabs. Fasten bracing wires into concrete with cast-in-place or postinstalled anchors.
J. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
   1. Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.
   2. Screw attach moldings to substrate at intervals not more than 16 inches o.c. and not more than 3 inches from ends, leveling with ceiling suspension system to a tolerance of 1/8 inch in 12 feet. Miter corners accurately and connect securely.
   3. Do not use exposed fasteners, including pop rivets, on moldings and trim.
K. Install suspension system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.
L. Install acoustical panels with undamaged edges and fitted accurately into suspension system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.
   1. For square-edged panels, install panels with edges fully hidden from view by flanges of suspension system runners and moldings.
   2. For reveal-edged panels on suspension system runners, install panels with bottom of reveal in firm contact with top surface of runner flanges.
   3. Paint cut panel edges remaining exposed after installation; match color of exposed panel surfaces using coating recommended in writing for this purpose by acoustical panel manufacturer.
   4. Install hold-down clips in all areas.

SECTION 09651 RESILIENT TILE FLOORING AND ACCESSORIES

A. Single Source Responsibility for Floor Tile and Accessories: Obtain each type, color, and pattern of tile and accessory from a single source; all stair accessories shall be from one manufacturer.
B. Fire Performance Characteristics: Provide resilient flooring with the following fire performance characteristics as determined by testing products per ASTM test method indicated below by UL, or another testing and inspecting agency acceptable to authorities having jurisdiction. Submit test reports prior to installation.
   1. Critical Radiant Flux: 0.45 watts per sq. cm or more per ASTM E 648.
   2. Smoke Density: Less than 450 per ASTM E 662.
C. Maintain a temperature of not less than 70 deg F or more than 95 deg F in spaces to receive products for at least 48 hours before installation, during installation, and for at least 48 hours after installation, unless manufacturer's written recommendations specify longer time periods. After postinstallation period, maintain a temperature of not less than 55 deg F or more than 95 deg F. Move flooring and accessories into spaces where they will be installed.
D. Vinyl Composition Floor Tile: As noted on drawings.
E. Wall Base: As noted on drawings.
F. Rubber Accessory Moldings: Provide rubber accessory molding complying with the following:
   1. Product Description: Carpet edge for glue-down applications, carpet nosing, nosing for rubber tile, reducer strip for resilient flooring, and tile and carpet joiner. Profile and dimensions as indicated or required.
G. Trowelable Underlayments and Patching Compounds: Latex modified, portland cement based formulation provided or approved by flooring manufacturer for applications indicated.
H. Adhesives (Cements): Water resistant type recommended by flooring and accessory manufacturers to suit resilient products and substrate conditions indicated.
I. Concrete Moisture Emission Tests: Perform calcium chloride test as per manufacturer's directions, as follows, and other tests if recommended by resilient flooring and adhesive manufacturer:
   1. Perform moisture test at rate of one per 2,000 sq.ft. of new and existing floor area to be covered.
   2. Report test results in writing to Architect, and Contractor within 24 hours after tests are completed. Reports of concrete moisture emission tests shall contain the Project identification name and number, date of test location of test within structure.
   3. Perform additional moisture emission tests of in-place concrete when test results indicate specified moisture content has been exceeded, as directed by Architect.
J. Do not install flooring if subfloor moisture emission rate exceeds indicated amounts when tested by calcium chloride moisture test, with subfloor temperatures not less than 55 deg F.
   1. Resilient Tile Flooring: Not more than 5 lb/1000 sq. ft./24 hours.
K. Use trowelable leveling and patching compounds per flooring manufacturer's directions to fill cracks, holes, and depressions in substrates and to patch and level floors as required to provide suitable substrate for flooring application.
   1. Smooth areas of vinyl asbestos tile abatement by applying patching compound.
L. Lay out tiles from center marks established with principal walls so tiles at opposite edges of room are of equal width. Install tiles square with room axis, unless otherwise indicated. Adjust layout to avoid the use of tile less than 3 inches wide at room perimeter.
M. Match tiles for color and pattern by selecting tiles from cartons in same sequence as manufactured and packaged, if so numbered. Cut tiles neatly around all fixtures. Discard broken, cracked, chipped, or deformed tiles.
   1. Lay tiles with grain running as directed by Architect. directions for "checkerboard" effect.
N. Scribe, cut, and fit tiles to butt tightly to vertical surfaces and edgings.
O. Extend tiles into toe spaces, door reveals, closets, and similar openings.
P. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use chalk or other nonpermanent, nonstaining marking device.
Q. Install tiles on covers for telephone and electrical ducts, and similar items in finished floor areas. Maintain overall continuity of color and pattern with pieces of flooring installed on covers. Tightly adhere edges to perimeter of floor around covers and to covers.
R. Adhere tiles to flooring substrates without producing open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, or other surface imperfections in completed tile installation.
S. Use full spread of adhesive applied to substrate in compliance with tile manufacturer's directions including those for trowel notching, adhesive mixing, and adhesive open and working times.
T. Hand roll tiles where required by tile manufacturer.
U. Apply resilient wall base to walls, pilasters, casework, and other permanent fixtures in rooms and areas where base is required. Install wall base in lengths as long as practicable. Tightly adhere wall base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
   1. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient wall base with manufacturer's recommended adhesive filler material.
   2. Form outside corners on job from straight pieces of maximum lengths possible, without whitening at bends. Shave back of base at points where bends occur and remove strips perpendicular to length of base that are only deep enough to produce a snug fit without removing more than half the wall base thickness.
   3. Form inside corners on job, from straight pieces of maximum lengths possible, by cutting an inverted V-shaped notch in toe of wall base at the point where corner is formed. Shave back of base where necessary to produce a snug fit to substrate.
V. Place resilient accessories so they are butted to adjacent materials of type indicated and bond to substrates with adhesive. Install reducer strips at edges of flooring that otherwise would be exposed. Place transitions under centerline of doors.
W. Protect flooring against mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by flooring manufacturer.
   1. Apply protective floor polish to floor surfaces that are free from soil, visible adhesive, and surface blemishes, if recommended in writing by manufacturer. Use commercially available product acceptable to flooring manufacturer.
   2. Cover products installed on floor surfaces with undyed, untreated building paper until inspection for Substantial Completion.
   3. Do not move heavy and sharp objects directly over floor surfaces. Place plywood or hardboard panels over flooring and under objects while they are being moved. Slide or roll objects over panels without moving panels.

SECTION 09680 CARPET

A. Carpet Fire-Test-Response Characteristics: Provide carpet with the following fire-test-response characteristics as determined by testing identical products per test method indicated below by UL, or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify carpet with appropriate markings of applicable testing and inspecting agency. Submit test reports prior to installation.
B. Carpet: As noted on drawings.
C. Trowelable Underlayments and Patching Compounds: Latex modified, portland cement based formulation provided or approved by flooring manufacturer for applications indicated.
D. Adhesives (Cements): Water resistant type recommended by flooring and accessory manufacturers to suit products and substrate conditions indicated.
E. Space Enclosure and Environmental Limitations: Do not install carpet until space is enclosed and weatherproof, wet-work in space is completed and nominally dry, work above ceilings is complete, and ambient temperature and humidity conditions are and will be continuously maintained at values near those indicated for final occupancy.
F. Concrete Moisture Emission Tests: Perform calcium chloride test as per manufacturer's directions, as follows, and other tests if recommended by resilient flooring and adhesive manufacturer:
   1. Perform moisture test at rate of one per 2,000 sq.ft. of new and existing floor area to be covered.
   2. Report test results in writing to Architect, and Contractor within 24 hours after tests are completed. Reports of concrete moisture emission tests shall contain the Project identification name and number, date of test location of test within structure.
   3. Perform additional moisture emission tests of in-place concrete when test results indicate specified moisture content has been exceeded, as directed by Architect.
G. Do not install flooring if subfloor moisture emission rate exceeds indicated amounts when tested by calcium chloride moisture test, with subfloor temperatures not less than 55 deg F.
   1. Resilient Tile Flooring: Not more than 5 lb/1000 sq. ft./24 hours.
H. Direct Glue-Down Installation: Comply with CRI 104, Section 8: "Direct Glue-Down."
I. Comply with carpet manufacturer's recommendations for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile. At doorways, center seams under door in closed position. Do not bridge building expansion joints with continuous carpet. Submit seaming diagram prior to installation.
J. Where demountable partitions or other items are indicated for installation on top of finished carpet floor, install carpet before installation of these items.
K. Cut and fit carpet to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet manufacturer.
L. Extend carpet into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
M. Install pattern parallel to walls and borders.
N. Perform the following operations immediately after completing installation.
   1. Remove visible adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer.
   2. Remove protruding yarns from carpet surface.
   3. Vacuum carpet using commercial machine with face-beater element.

SECTION 09900 PAINTING

A. Paint exposed surfaces, except where the paint schedules indicate that a surface or material is not to be painted or is to remain natural. If the paint schedules do not specifically mention an item or a surface, paint the item or surface the same as similar adjacent materials or surfaces whether or not schedules indicate colors. If the schedules do not indicate color or finish, the Architect will select from any custom or standard colors and finishes available.
   1. Painting includes field painting of exposed bare and covered pipes and ducts, hangers, exposed steel and iron work, and primed metal surfaces of mechanical and electrical equipment.
B. Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels.
   1. Labels: Do not paint over Underwriters Laboratories (UL), Factory Mutual (FM), or other code-required labels or equipment name, identification, performance rating, or nomenclature plates.
C. Apply water-based paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 50 and 90 deg F and the relative humidity is less than 85 percent.
D. Apply solvent-thinned paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 45 and 95 deg F and the relative humidity is less than 85 percent.
E. Material Compatibility: Provide block fillers, primers, undercoats, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
F. Examine substrates, areas, and conditions, with the Applicator present, under which painting will be performed for compliance with paint application requirements. Surfaces receiving paint must be thoroughly dry before paint is applied.
   1. Do not begin to apply paint until unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry.
   2. Start of painting will be construed as the Applicator's acceptance of surfaces and conditions within a particular area.
G. Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of the size or weight of the item, provide surface-applied protection before surface preparation and painting. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.
H. Cleaning: Before applying paint or other surface treatments, clean the substrates of substances that could impair the bond of the various coatings. Remove oil and grease before cleaning. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.
I. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition and as specified.
   1. Provide barrier coats over incompatible primers or remove and reprime.
J. Application Procedures: Apply paints and coatings by brush or roller according to the manufacturer's directions. Spray application is only permitted for exposed structural ceiling system. Roller application on woodwork is not permitted.
   1. Brushes: Use brushes best suited for the type of material applied. Use brush of appropriate size for the surface or item being painted.
   2. Rollers: Use rollers of carpet, velvet back, or high-pile sheep's wool as recommended by the manufacturer for the material and texture required.
   3. Spray Equipment: Use airless spray equipment with orifice size as recommended by the manufacturer for the material and texture required.
K. Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate. Provide the total dry film thickness of the entire system as recommended by the manufacturer.
L. Gypsum Board Ceilings: Flat acrylic finish - 2 finish coats over a primer.
   1. Primer: Latex-based, interior primer.
   2. First and Second Coats: Flat, acrylic-latex, interior paint.
M. Gypsum Board Walls: Semigloss (eggshell), acrylic-enamel finish - 2 finish coats over a primer.
   1. Primer: Latex-based, interior primer.
   2. First and Second Coats: Semigloss, acrylic-latex, interior enamel.
N. Interior Concrete Masonry Units: Semigloss, acrylic-enamel finish - 2 finish coats over a block filler.
   1. Block Filler: High-performance, latex-based, block filler.
   2. First and Second Coats: Semigloss, acrylic-latex, interior enamel.
O. Exposed Metal Framing and Decking at Ceilings: Eggshell alkyd, interior dry-fall finish - 1 finish coat over prepared surfaces.
   1. Finish Coat: Sweep-up Spray Alkyd Eggshell #M52.
P. Hollow Metal Doors, Frames, and Sidelights, and Ferrous Metals: Semigloss alkyd, interior enamel finish - 2 finish coat over primer. Primer is not required on shop-primed items.
   1. Primer: Quick-drying, rust-inhibitive, alkyd-based or epoxy-metal primer.
   2. Finish and Second Coats: Odorless, semigloss, alkyd, interior enamel.
Q. Paint selection on drawings govern.

SECTION 10520 FIRE EXTINGUISHERS, AND ACCESSORIES

A. General: Provide fire extinguishers for each extinguisher cabinet location shown on drawings and other locations indicated, in manufacturer's standard color and finish, which comply with requirements of governing authorities.
   1. Fill and service extinguishers to comply with requirements of governing authorities and manufacturer.
   2. Abbreviations indicated below identify extinguisher types related to UL classification and rating system and not necessarily to type and amount of extinguishing material contained in extinguisher.
B. Multipurpose Dry Chemical Type: UL rated 4A-60B:C, 10 lb. nominal capacity, in enameled steel container.
C. General: Provide fire extinguisher cabinets where indicated, of suitable size for housing fire extinguishers of types and capacities indicated.
D. Cabinet Construction: Provide manufacturer's standard box (tub), with trim, frame, door, and hardware to suit cabinet type, trim style, and door style indicated. Weld joints and grind smooth. Miter and weld perimeter door frames.
   1. Fire-Rated Cabinets: Listed and labeled to meet requirements of ASTM E 814 for fire-resistance rating of wall where it is installed.
      a. Construct fire-rated cabinets with double walls fabricated from 0.0478-inch-thick, cold-rolled steel sheet lined with minimum 5/8-inch- thick, fire-barrier material.
      b. Provide factory-drilled mounting holes.
      c. Provide at all locations where cabinet is located in a rated wall, refer to drawings for locations.
   2. Cabinet Metal: Enameled-steel sheet.
E. Install in locations and at mounting heights indicated or, if not indicated, at heights acceptable to authorities having jurisdiction.
   1. Prepare recesses for cabinets as required by type and size of cabinet and trim style.
   2. Fasten mounting brackets to structure and cabinets, square and plumb.
   3. Fasten cabinets to structure, square and plumb.

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NO.	REVISION/ISSUE	DATE
2.	ISSUE FOR BID	05/10/2017
1.	ISSUE FOR 90% REVIEW	05/01/2017

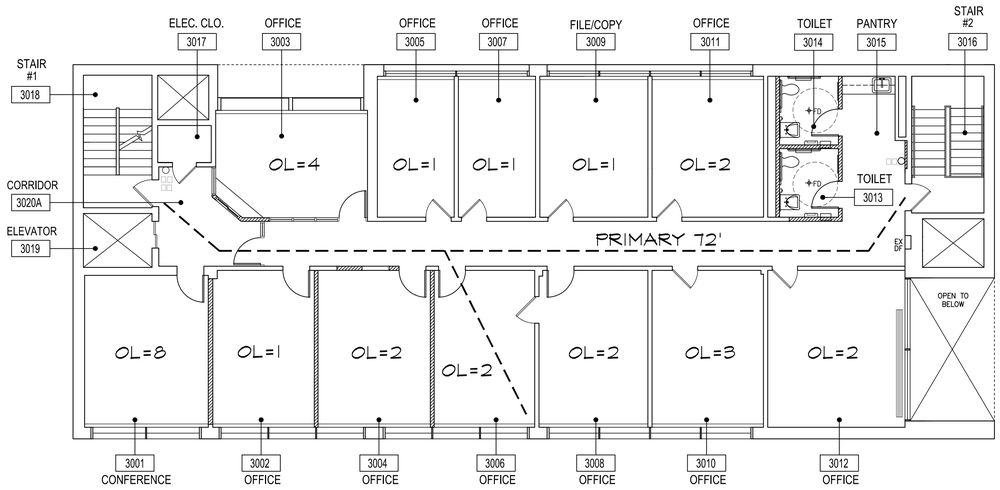
SEAL

PROJECT
INTERIOR RENOVATION
CAMPUS CENTER SOUTH

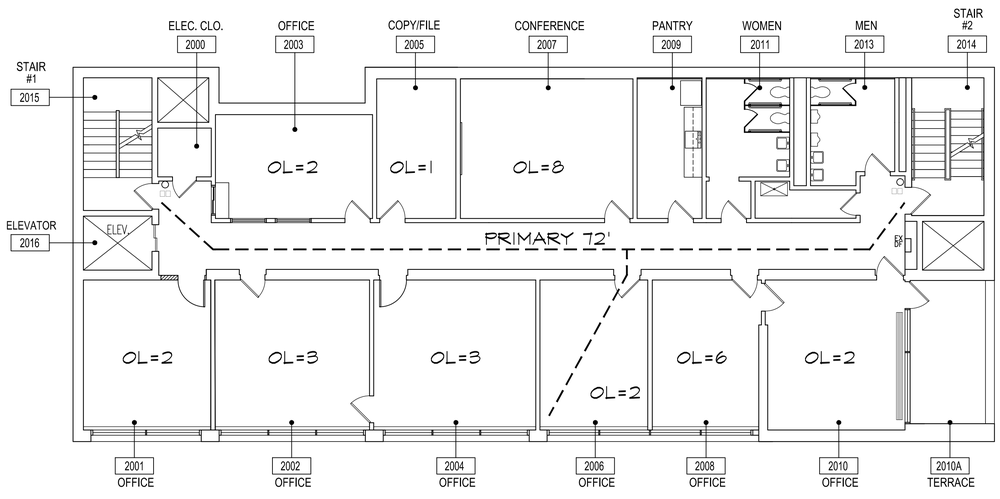
DATE:	03/28/2017
PROJECT NO:	DA 16169 / SU 022317
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE
ARCHITECTURAL SPECIFICATIONS

SHEET NO.
A-SPEC-03



2 3RD FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 2ND FLOOR PLAN
SCALE: 1/8" = 1'-0"

LEGEND:

1 HOUR FIRE RATED WALL
2 HOUR FIRE RATED WALL
OCCUPANT LOAD OL
EXIT ACCESS TRAVEL DISTANCE

INTERIOR RENOVATION
PURCHASE COLLEGE
CAMPUS CENTER SOUTH

PROJECT DATA:

1. PROJECT ADDRESS: 2735 ANDERSON HILL RD.
PURCHASE, NY 10577

2. PROJECT DESCRIPTION:
LEVEL II ALTERATION: INTERIOR IMPROVEMENTS TO AN EXISTING 3 STORY BUILDING ON THE SECOND AND THIRD FLOORS OF ADMINISTRATION SPACE INCLUDING OFFICES, CONFERENCE ROOM, PANTRY, AND SUPPORT SPACES.

3. CODE:
ALL WORK SHALL CONFORM TO ALL APPLICABLE GOVERNING CODES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING,
CURRENT ADOPTED CODES, NEW YORK STATE, WITH CURRENT AMENDMENTS.

2015 INTERNATIONAL BUILDING CODE (I.B.C.)
2015 INTERNATIONAL EXISTING BUILDING CODE (I.E.B.C.)

4. PROPOSED USE / OCCUPANCY: NO CHANGE IN USE OR OCCUPANCY
BUSINESS GROUP - B

5. CONSTRUCTION TYPE: EXISTING TYPE II (B)
NON SPRINKLERED

6. OCCUPANT LOAD:
CALCULATED OCCUPANT LOAD PER I.B.C. TABLE 1004.1.2
INCREASED OCCUPANT LOAD AS PER 1004.2

THIRD FLOOR: TOTAL OCCUPANTS 29
SECOND FLOOR: TOTAL OCCUPANTS 29

16. EXITING:
EXIT WIDTHS AT DOORS - 32" MIN. CLEAR PER I.B.C. 1010.1.1
EXIT WIDTHS AT CORRIDORS - 36" MIN. CLEAR PER I.B.C. 1020.2
NUMBER OF EXITS REQ'D. (2) PER I.B.C. 1006.3.1
EXIT ACCESS TRAVEL DISTANCE: NON SPRINKLERED- 200' MAX. PER IBC 1017.2
CORRIDOR FIRE-RESISTANCE RATING - NOT REQUIRED FOR B OCCUPANCY, OL LESS THAN 30 PER I.B.C. TABLE 1020.1.
EGRESS WIDTH:
I.B.C. 1005.3.2 - 0.20 INCH PER OCCUPANT

CALCULATED MIN. REQUIRED EXIT WIDTH:
OCCUPANT LOAD/FLOOR = 29
DOORS: 29 X 0.2 = 5.8" REQUIRED, MIN. DOOR WIDTH = 32" FROM ABOVE.

17. PLUMBING FACILITIES:
MINIMUM PLUMBING FACILITIES PER I.B.C. 2902.1

THIRD FLOOR: 29 OCCUPANTS / 2 = 14 MEN + 14 WOMEN
SECOND FLOOR: 29 OCCUPANTS / 2 = 14 MEN + 14 WOMEN

BUSINESS GROUP B:

THIRD FLOOR:

W.C.: 1/25 FIRST 50 & 1/50 REMAINDER
MEN: (1) REQ'D. / (1) PROVIDED
WOMEN: (1) REQ'D. / (1) PROVIDED

LAV: 1/40 FIRST 80 & 1/80 REMAINDER
MEN: (1) REQ'D. / (1) PROVIDED
WOMEN: (1) REQ'D. / (1) PROVIDED

SECOND FLOOR:

W.C.: 1/25 FIRST 50 & 1/50 REMAINDER
MEN: (1) REQ'D. / (3) PROVIDED
WOMEN: (1) REQ'D. / (3) PROVIDED

LAV: 1/40 FIRST 80 & 1/80 REMAINDER
MEN: (1) REQ'D. / (2) PROVIDED
WOMEN: (1) REQ'D. / (2) PROVIDED

THIRD FLOOR:
ACCESSIBLE PROVIDED - (2)

SECOND FLOOR:
NO CHANGE TO EXISTING

DRINKING FOUNTAINS: (1) REQ'D. - WATER PROVIDED AT BREAK ROOM

SERVICE SINK: (1) REQ'D. - EXISTING TO REMAIN - NO CHANGE

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INTERIOR RENOVATION
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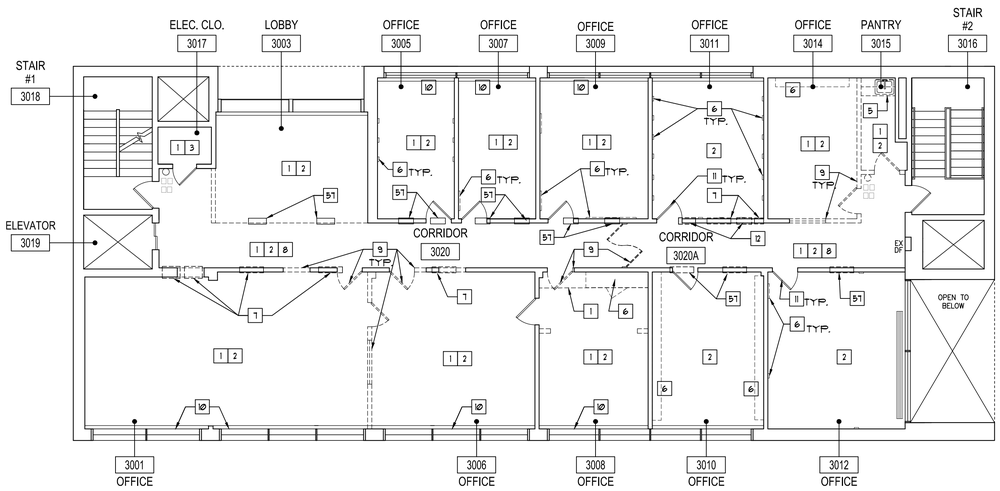
SCALE:	AS NOTED

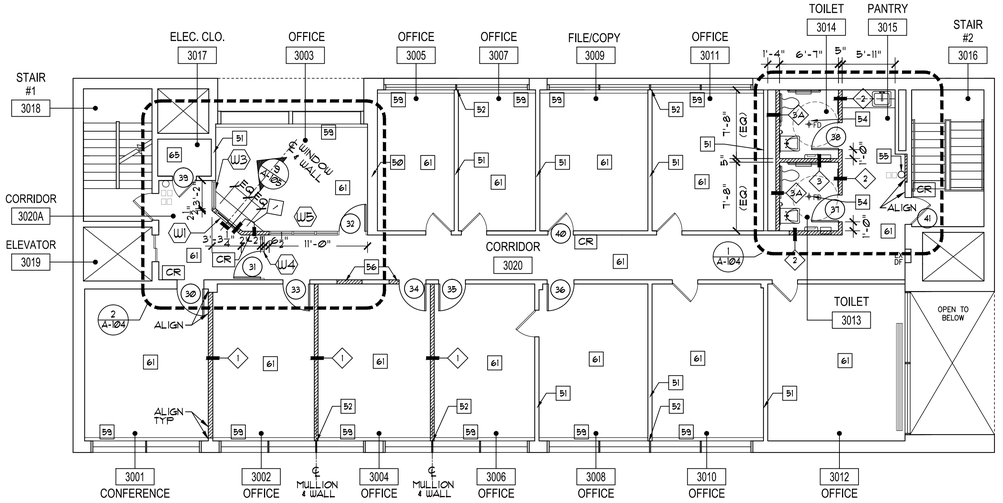
DRAWING TITLE
CODE ANALYSIS

SHEET NO.
A-001



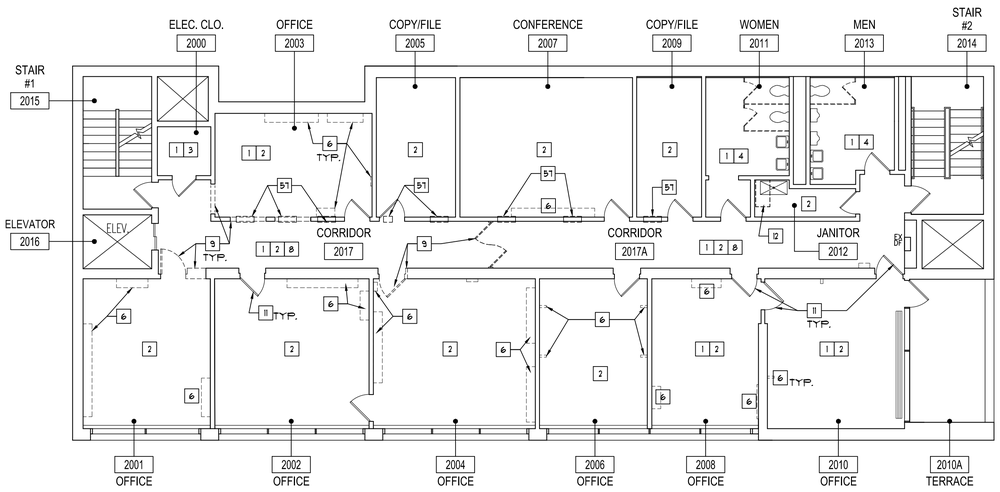
2 3RD FLOOR DEMOLITION PLAN

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



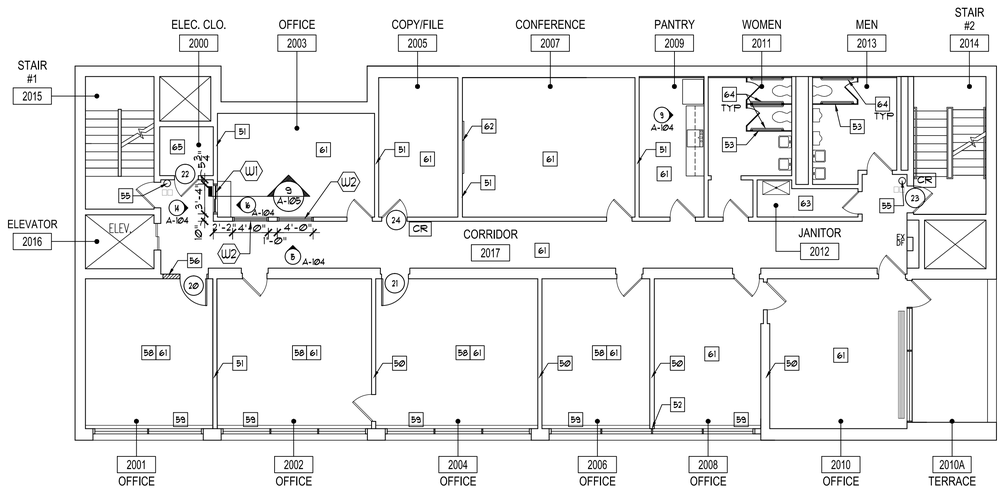
4 3RD FLOOR CONSTRUCTION PLAN

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



1 2ND FLOOR DEMOLITION PLAN

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



3 2ND FLOOR CONSTRUCTION PLAN

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

LEGEND

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW WALL
- EXISTING DOOR & FRAME TO REMAIN
- NEW DOOR & FRAME, TYP. SEE DOOR SCHEDULE
- NEW WINDOW & FRAME SEE WINDOW SCHEDULE
- KEYED NOTE DESIGNATION
- DETAIL: DETAIL IDENTIFICATION; SHEET WHERE DETAIL IS SHOWN
- INTERIOR ELEVATION: ELEVATION IDENTIFICATION; SHEET WHERE ELEVATION IS DRAWN
- CR — CARD READER. REFER TO ELECTRICAL DRAWINGS

GENERAL NOTES

1. CONTRACTOR SHALL EXERCISE CARE IN REMOVING EXISTING AND/OR INSTALLING NEW MATERIALS AND SHALL REPAIR OR REPLACE, AT HIS COST, ANY DAMAGE CAUSED TO EXISTING CONSTRUCTION AND/OR EQUIPMENT.
2. ALL FINISHES TO MATCH BUILDING STANDARD U.O.N.
3. ALL NEW & EXISTING PARTITIONS, DOORS, AND FRAMES SHALL BE PRIMED AND PAINTED. PROVIDE NEW BASE.
4. WHEREVER NEW PARTITIONS, DOORS & FRAMES ARE INSTALLED AND/OR EXISTING PARTITIONS, DOORS & FRAMES ARE REMOVED, CONTRACTOR SHALL REPAIR AND PATCH ADJACENT EXISTING AREAS (WALL/FLOOR/CEILING) TO PROVIDE SMOOTH AND SEAMLESS FINISH BETWEEN EXISTING MATERIALS AND NEW.
5. FIRESTOP ALL WALL/CEILING/FLOOR PENETRATIONS AT RATED WALLS WITH APPROVED HILTI FIRESTOPPING. RATING TO MATCH ADJACENT RATED WALL/CEILING/FLOOR ASSEMBLY. TYPICAL AT ALL PENETRATIONS. COORDINATE W/ ENGINEER'S DRAWINGS.

DEMOLITION NOTES

1. REMOVE EXISTING LIGHT FIXTURES, CEILING REGISTERS, CEILING TILES, GRIDS, HANGERS, SUPPORTS, FASTENERS, GYP. BD CEILING ASSEMBLIES, GYP. BD. SOFFIT ASSEMBLIES, ETC. IN THEIR ENTIRETY AND DISCARD. REFER TO ENGINEER'S DRAWINGS FOR REMOVAL/CONSTRUCTION OF ALL FIRE ALARM DEVICES, SPRINKLER HEADS, ETC. NOTE SOME ARE TO REMAIN.
2. REMOVE EXISTING VCT TILES/CARPET TILES, GLUES/ADHESIVES AND WALL BASE/ADHESIVES. FLASH PATCH EXISTING FLOORS TO LEVEL FINISH IN PREPARATION FOR NEW FINISH FLOORING AND WALL BASE. REFER TO FINISH SCHEDULE.
3. REPAIR AND PATCH EXISTING WALLS TO RECEIVE NEW FINISH. PREP. EXISTING CONC. FLOOR TO RECEIVE NEW FINISH FLOOR. REFER TO FINISH SCHEDULE.
4. REMOVE EXISTING TOILET PARTITION & ASSOCIATED FASTENERS. REPAIR & PATCH AS REQ'D TO RECEIVE NEW TOILET PARTITIONS. CLEAN EXISTING BATHROOM THROUGHOUT INCLUDING BUT NOT LIMITED TO WALLS, WALL TILES, FLOOR TILES, WATER CLOSETS, LAVATORIES, URINALS, TOILET ACCESSORIES, ETC. PREPARE EXISTING GYP. BD. WALLS, DOORS & FRAMES TO RECEIVE NEW PAINT.
5. REMOVE EXISTING SINK AND MILLWORK. REFER TO PLUMB. DWG.
6. REMOVE EXISTING MILLWORK, SHELVING, TRACKS, FASTENER, NAILS, COAT HOOK, BOARDS, ETC. CONTRACTOR TO VERIFY ALL LOCATIONS IN FIELD. REPAIR & PATCH TO PROVIDE SMOOTH AND SEAMLESS FINISH.
7. REMOVE EXISTING LOUVERS BELOW EX. CEILING. INFILL WALL W/ LIKE MATERIALS. CONTRACTOR TO VERIFY ALL LOCATIONS IN FIELD. WALL RATING SHALL MATCH EXISTING WALL RATING. COORDINATE W/ MECHANICAL DRAWINGS.
8. REMOVE ALL EXISTING SIGNAGE, ASH TRAY AT CORRIDOR. REPAIR & PATCH TO PROVIDE SMOOTH AND SEAMLESS FINISH.
9. REMOVE EXISTING WALLS, WINDOWS, DOORS & FRAMES. REPAIR & PATCH WALL AND FLOOR AS REQ'D.
10. REMOVE EXISTING VERTICAL BLINDS AND PROVIDE NEW SOLAR SHADES. REFER TO FINISH PLAN.
11. REMOVE ALL WALL STOPS FOR DOORS AND PROVIDE NEW. REPAIR & PATCH WALLS. TYPICAL AT ALL EXISTING DOORS TO REMAIN. REFER TO DOOR SCHEDULE.
12. REMOVE PORTION OF WALL/GYP. BD CLG TO INSTALL NEW REGISTERS. REPAIR & PATCH AS REQ'D. REFER TO MECH. DWGS

COORDINATION WORK NOTES

1. REFER TO ENGINEERS DRAWINGS FOR LOCATIONS OF DEVICE, DIFFUSERS, ETC. REMOVALS. CONTRACTOR TO REPAIR ALL WORK RESULTING FROM REMOVAL.
2. REFER TO PLUMBING DRAWINGS FOR NEW PIPE ROUTING. REPAIR ALL CEILINGS AT LOBBY LEVEL WHERE REMOVAL WAS REQUIRED TO PERFORM THE WORK. REPLACE ALL WHEN COMPLETE.
3. ROOF: AT LOCATION WHERE NEW FAN IS BEING INSTALLED (REFER TO MECHANICAL DRAWINGS), CONTRACTOR SHALL REPAIR & PATCH ROOF AS PER ROOF MANUFACTURER'S RECOMMENDATION SO AS NOT TO COMPROMISE WARRANTY. PROVIDE ALL REQUIRED COPPER FLASHING AT NEW PENETRATION.

CONSTRUCTION NOTES

50. EXTEND WALLS TO UNDERSIDE OF DECK W/ LIKE MATERIALS.
51. CONTRACTOR TO FIELD VERIFY & IDENTIFY EXISTING WALLS EXTEND TO DECK ABOVE. PROVIDE UNIT PRICE TO EXTEND WALL TO UNDERSIDE OF DECK, TYP.
52. PROVIDE GASKET AT WINDOW BETWEEN MULLION & PARTITION
53. INSTALL NEW TOILET PARTITION. REFER TO FINISH PLAN.
54. FLOOR DRAIN. REFER TO PLUMBING DRAWINGS
55. PROVIDE NEW FIRE EXTINGUISHERS 2a-10bc AS INDICATED ON PLAN. WALL BRACKET SHALL BE MOUNTED AT 42" AFF. ALL MOUNTING HEIGHT TO COMPLY WITH ADA REQUIREMENT.
56. INFILL WALL TO MATCH EXISTING ADJACENT WALL. RATING TO MATCH EXISTING.
57. REMOVE EXISTING LOUVER AND MODIFY EXISTING OPENING AS REQ'D TO INSTALL NEW LOUVER. COORDINATE W/ MECH. DRAWINGS
58. REMOVE AND RE-INSTALL EXISTING CEILING GRID & TILE AS REQ'D FOR MECHANICAL DEMOLITION AND NEW WORK. REFER TO MECH. DRAWING. PROVIDE NEW CEILING TILE/GRID AS REQ'D TO MATCH EXISTING.
59. ALL EXISTING HEATING UNIT COVERS SHALL BE SCRAPED, PRIMED AND PREPARED TO RECEIVE NEW PAINT. PAINT SHALL BE ELECTROSTATICALLY APPLIED AS PER FINISH SCHEDULE. TYP. AT ALL EXISTING HEATING UNITS.
60. PROVIDE UNIT COST PER SF TO REPAIR/PATCH WALLS TO SMOOTH FINISH BASED ON SF.
61. PREP. ALL EX/NEW WALLS TO RECEIVE NEW PAINT. REFER TO FINISH SCHEDULE. TYP.
62. LED SCREEN PROVIDED BY OWNER. PROVIDE 3/4" PLYWOOD BLOCKING SECURED TO THE EXISTING WALL. COORDINATE BLOCKING SIZE WITH SCREEN. PAINT TO MATCH GWB. CONFIRM SCREEN MOUNTING HEIGHT WITH OWNER. PROVIDE POWER & DATA AS REQ'D. REFER TO ELECTRICAL DWG.
63. REMOVE DAMAGED SHEET ROCK. REPLACE W/ NEW CEMENT BOARD, TAPE, SPACKLE, PRIME & PAINT. APPLY NEW FINISH. SEE FINISH SCHEDULE.
64. INSTALL 42" GRAB BAR @ EACH STALL, (2) PER STALL. INSTALL AS PER ADA REQUIREMENT. REFER TO A-104.
65. PROVIDE 24"x24" CEILING ACCESS PANEL. MFG: JL INDUSTRIES STANDARD TM FLUSH ACCESS PANEL. PAINT TO MATCH CEILING.

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1.	ISSUE FOR 90% REVIEW	05/01/2017

SEAL

PROJECT

INTERIOR RENOVATION
CAMPUS CENTER SOUTH

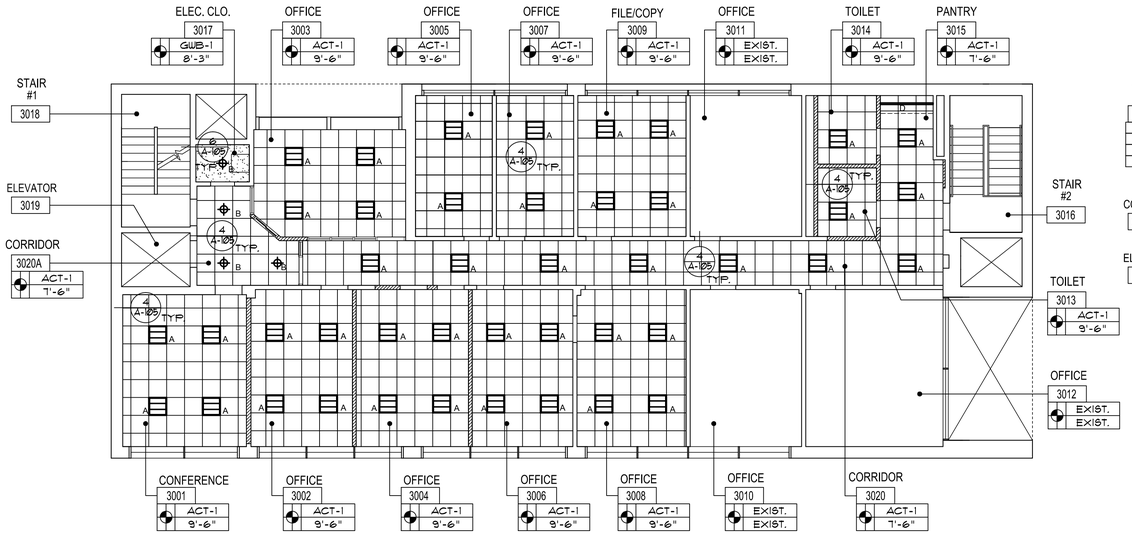
DATE:	03/28/2017
PROJECT NO:	DA 16169 / SU 022317
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE

2ND FLOOR & 3RD FLOOR DEMOLITION AND CONSTRUCTION PLANS

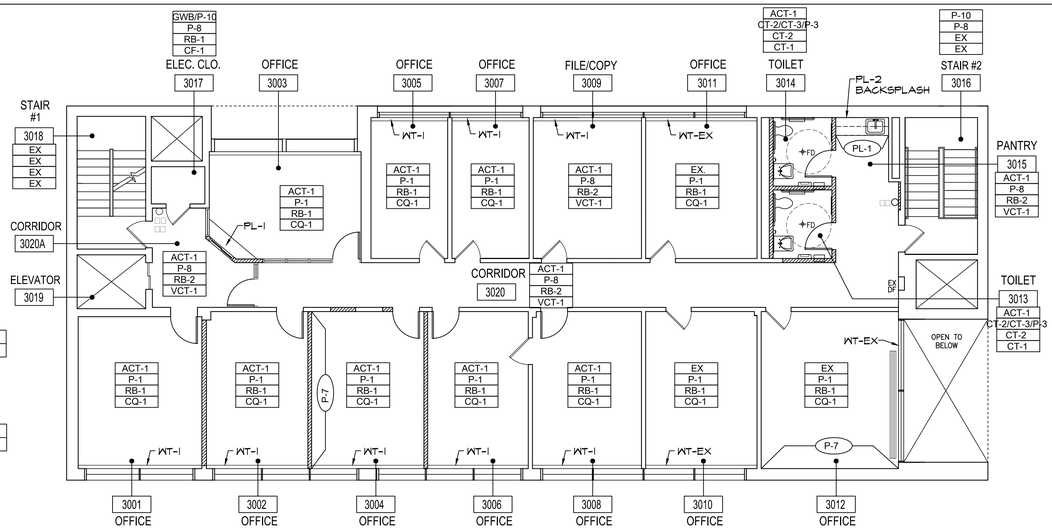
SHEET NO.

A-101



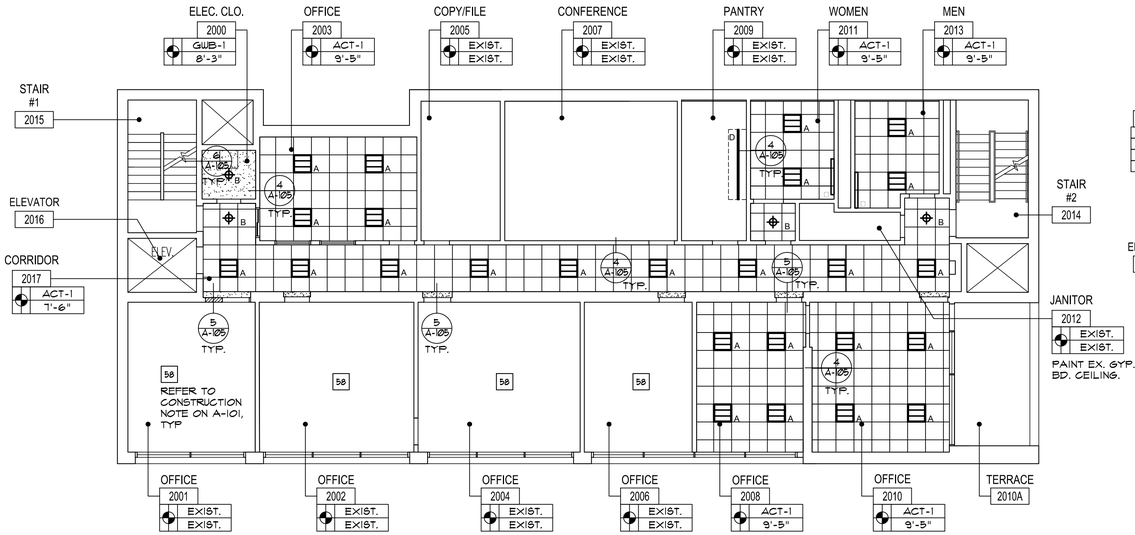
2 3RD FLOOR REFLECTED CEILING PLAN

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



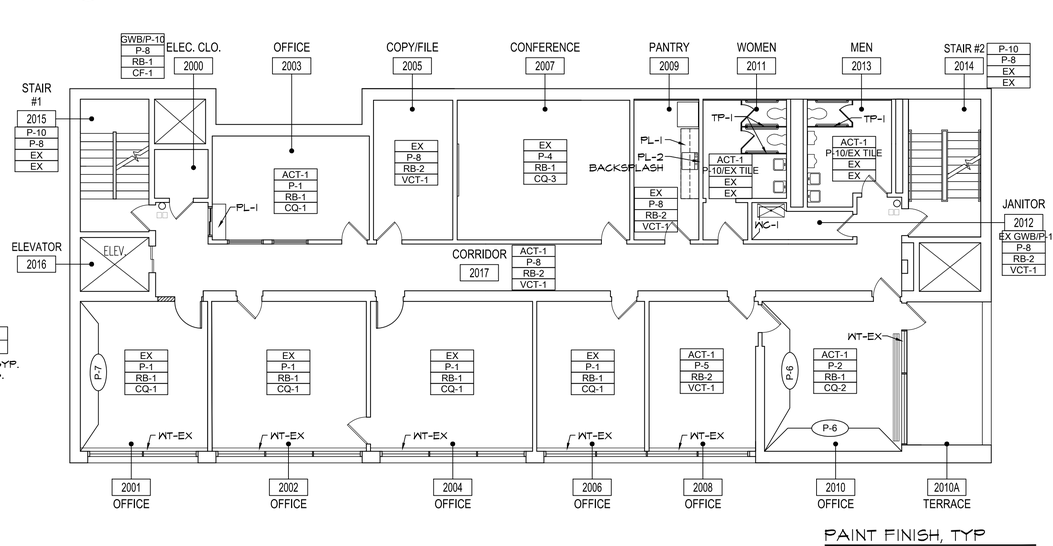
4 3RD FLOOR FINISH PLAN

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



1 2ND FLOOR REFLECTED CEILING PLAN

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



3 2ND FLOOR FINISH PLAN

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

PAINT FINISH, TYP

WALLS: EGGSHELL
CEILINGS: FLAT
FRAMES: SATIN
METALS: ELECTROSTATIC PROCESS
DOORS: STAINED WOOD.

RCP FIXTURE LEGEND

REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL FIXTURE SCHEDULE, OCCUPANCY SENSOR, EXT SIGNS, EMERGENCY LIGHTS ETC.

- A 2x2 RECESSED LED
- B 6" ROUND DOWNLIGHT
- C 1x4 FLAT PANEL
- D UNDERCABINET LED

FINISH SYMBOL

CEILING FINISH — x
WALL FINISH — x
BASE FINISH — x
FLOOR FINISH — x

ME MATCH EXISTING

x-x FINISH TYPE AND SPECIFICATION
FINISH FOR COUNTERTOP, FLOOR

FINISH NOTES

1. PAINT ALL HEATING UNITS. COLOR TO MATCH WALL COLOR.
2. PROVIDE TRANSITION ANGLE AT ALL FLOOR TRANSITIONS. REFER TO DETAIL ON A-105.
3. ALL PRODUCTS TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
4. ALL NEW & EXISTING WALLS & CEILINGS ARE TO BE PAINTED AS PER FINISH SCHEDULE ON FLOORS 2 AND 3, INCLUDING STAIRWELLS.
5. ALL INTERIOR CABINETS AT PANTRY SHALL BE PRE-FINISHED MAPLE INCLUDING SHELVES.
6. ALL COMMON CORRIDOR FINISHES (CARPET, PAINT, CEILING SYSTEMS, ETC.) DISTURBED DURING CONSTRUCTION MUST BE RESTORED.
7. ALL DOOR TRIMS & HM WINDOW TRIMS TO BE P-8.

FINISH SCHEDULE

PROVIDE AS PER SPEC BELOW OR APPROVED EQUAL.

REF #	MATERIAL	MANUFACTURER	STYLE NAME/#/FINISH	REMARKS
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	TILE # 1942, ULTIMA OPEN PLAN BEVELED TEGULAR, SUPRAFINE 9/16" EXPOSED TEE GRID	
P-1	PAINT	BENJAMIN MOORE	WINTER SOLISTICE 1605	
P-2	PAINT	BENJAMIN MOORE	BEACH GLASS 1564	
P-3	PAINT	BENJAMIN MOORE	SEAPEARL 961	
P-4	PAINT	BENJAMIN MOORE	ELECTRIC SLIDE 404	
P-5	PAINT	BENJAMIN MOORE	TUCSON CORAL 005	
P-6	PAINT (ACCENT)	BENJAMIN MOORE	YUKON SKY 1439	
P-7	PAINT (ACCENT)	BENJAMIN MOORE	VAN DEUSEN BLUE HC-156	
P-8	PAINT	BENJAMIN MOORE	GRAY OWL 2137-60	
P-9	NOT USED			
P-10	PAINT	BENJAMIN MOORE	SIMPLY WHITE OC-117	
CT-1	PORCELAIN TILE, FLOOR	DALTILE	12"x12" #P400, UNPOLISHED	
CT-2	PORCELAIN TILE, WALL	DALTILE	12"x12" UNITY #P400-AVORIO, POLISHED	PROVIDE COVE TILE AT BASE
CT-3	TILE, ACCENT	DALTILE	KEYSTONES MOONLIGHT DK14, ACCENT (MOSAIC)	
RB-1	RUBBER BASE	JOHNSONITE	20 CHARCOAL WS	STRAIGHT BASE @ ALL CARPET AREAS, COVE @ ALL VCT AREAS.
RB-2	RUBBER BASE	JOHNSONITE	32 PEBBLE	
WC-1	WALL PANEL	MARLITE	STANDARD FRP SANITARY WALL PANEL P-100 PEBBLE SURFACE, 3/32" THICK, COLOR: WHITE HT: +4'-0" AFF, PROVIDE TRIM MOULDINGS AT EDGES	

REF #	MATERIAL	MANUFACTURER	STYLE NAME/#/FINISH	REMARKS
CQ-1	CARPET PROVIDED BY OWNER	SHAW CONTRACT	STYLE: INTERPLAY ULTRALOC #60589 COLOR: GIVE AND TAKE #89400	ALL CARPETS, CQ-1, CQ-2 & CQ-3 TO BE PROVIDED BY OWNER. GC TO PREP FLOORS AND INSTALL.
CQ-2	CARPET PROVIDED BY OWNER	SHAW CONTRACT	STYLE: INTERPLAY ULTRALOC #60589 COLOR: NETWORK #84500	
CQ-3	CARPET PROVIDED BY OWNER	SHAW CONTRACT	STYLE: TONE CLASSICBAC #5A152 COLOR: BLUE INK #51485	
VCT-1	VCT	SHAW CONTRACT	STYLE: BRUSH #12MIL 0565V/20MIL 0552V COLOR: BLUR #52535 SIZE: 6"x48" DIRECT GLUE LVT	
CF-1	SEALED CONCRETE	-	EXISTING CONCRETE FLOOR TO BE SEALED, CLEAR COAT.	
PL-1	PLASTIC LAMINATE	NEVAMAR	PLATINUM GRAY S6023T	AT ALL MILLWORK
PL-2	PLASTIC LAMINATE	NEVAMAR	MANHATTAN GLAMOUR MH6001T	AT BACKSPLASH
WT-1	SHADE	MECCHO SHADE SYSTEMS	THERMOVEIL; STYLE #1300 DENSE BASKETWEAVE 1304 COLOR: BLACK/BROWN PRE-STOPS; BEAD CHAIN PULL MICROFILM #0691 BRONZE SILVER-BRONZE (4 MILS)	
WT-EX	EXISTING MECCHO SHADE SYSTEM TO REMAIN			WIPE CLEAN AFTER CONSTRUCTION
TP-1	TOILET PARTITION	METPAR CORP.	BASE STAINLESS STEEL FLOOR MOUNTED HEAD RAIL BRACED #4 PATTERN	PROVIDE (1) COAT HOOK W/ RUBBER BUMPER PER EACH COMPARTMENT. PROVIDE REQUIRED FASTENER/ ACCESSORIES. INSTALL AS PER MFG'S SPECIFICATION.
			ALTERNATE #1 POLLY FP-500, FLOOR MOUNTED HEAD RAIL BRACED. SOLID MOLDED PLASTIC PANELS, COLOR: WHITE GRANITE HARDWARE FINISH: POLISHED S/S.	
			ALTERNATE #2 ELECTROSTATICALLY PAINT EXISTING PARTITIONS SCRAPE, STRIP ALL EXISTING PAINT PRIOR TO PAINTING.	

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CAMPUS CENTER SOUTH

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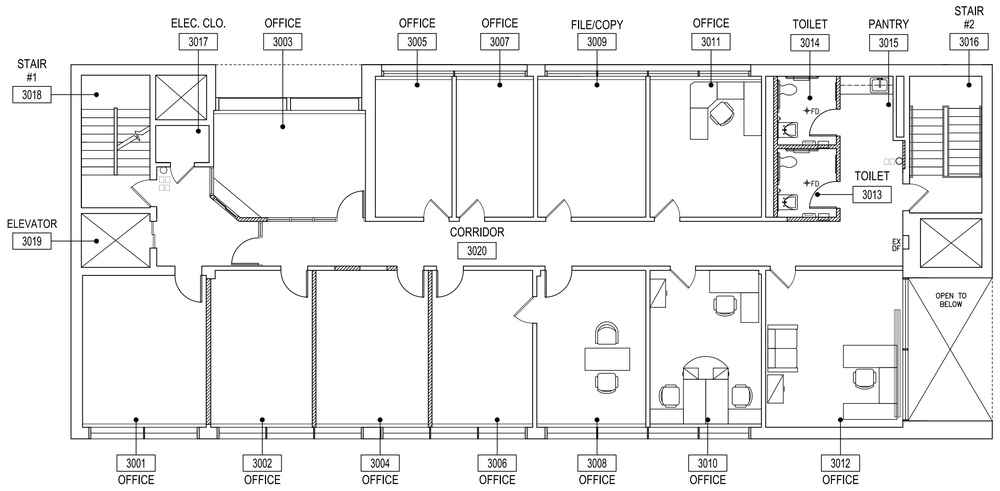
SCALE:	AS NOTED

DRAWING TITLE

2ND FLOOR & 3RD FLOOR REFLECTED CEILING PLANS AND FINISH PLANS

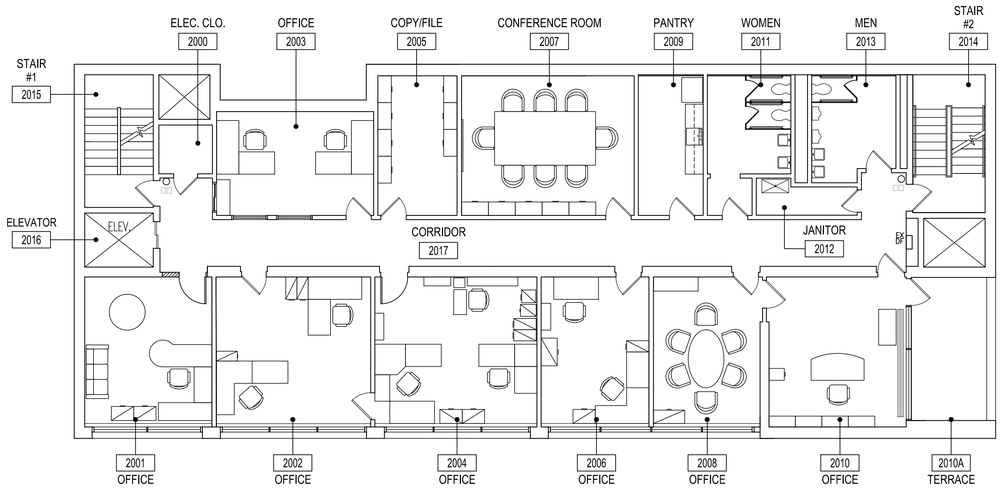
SHEET NO.

A-102



2 3RD FLOOR FURNITURE PLAN - REFERENCE ONLY

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



1 2ND FLOOR FURNITURE PLAN - REFERENCE ONLY

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

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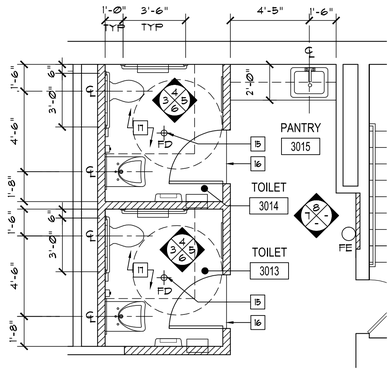
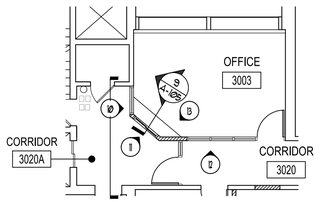
SHEET NO.

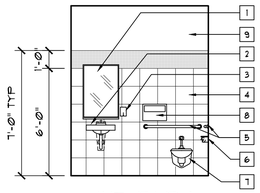
A-103



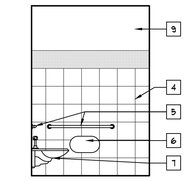
ENLARGED PLAN
@ 3RD FLOOR BATHROOMS
1 SCALE: 1/4" = 1'-0"



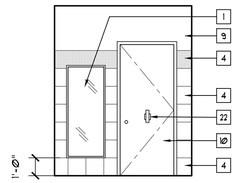
KEY PLAN
@ PARTIAL 3RD FL
2 SCALE: 1/8" = 1'-0"



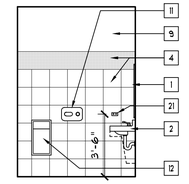
INT. E.LEV.
@ BATHROOM
3 SCALE: 1/4" = 1-0"



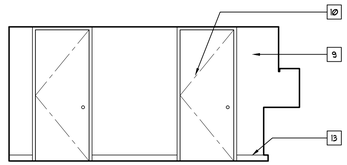
INT. E.LEV.
@ BATHROOM
4 SCALE: 1/4" = 1-0"



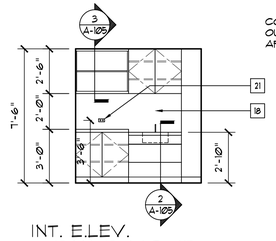
INT. E.LEV.
@ BATHROOM
5 SCALE: 1/4" = 1-0"



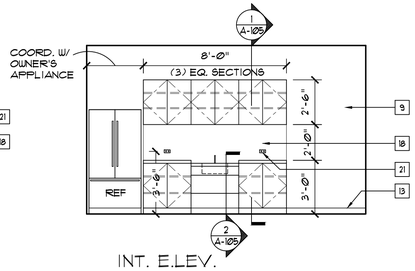
INT. E.LEV.
@ BATHROOM
6 SCALE: 1/4" = 1-0"



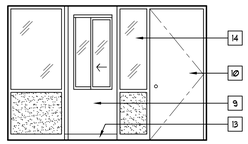
INT. ELEVATION
7 SCALE: 1/4" = 1-0"



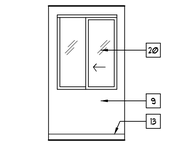
INT. E.LEV.
@ PANTRY #3015
8 SCALE: 1/4" = 1-0"



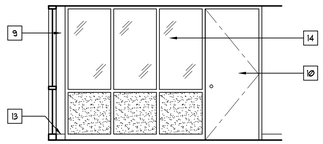
INT. E.LEV.
@ PANTRY #2009
9 SCALE: 1/4" = 1-0"



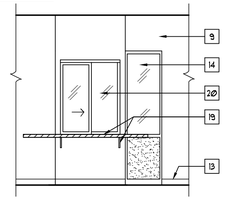
INT. E.LEV.
@ 3RD FL. CORR.
10 SCALE: 1/4" = 1-0"



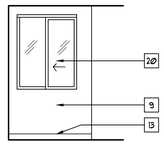
INT. E.LEV.
@ 3RD FL. CORR.
11 SCALE: 1/4" = 1-0"



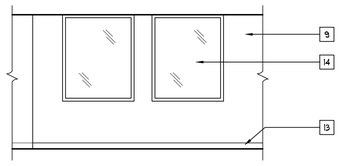
INT. E.LEV.
@ 3RD FL. CORR.
12 SCALE: 1/4" = 1-0"



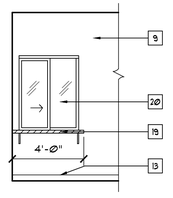
INT. E.LEV.
@ 3RD FL. CORR.
13 SCALE: 1/4" = 1-0"



INT. E.LEV.
@ 2ND FL. CORR.
14 SCALE: 1/4" = 1-0"



INT. E.LEV.
@ 2ND FL. CORR.
15 SCALE: 1/4" = 1-0"



INT. E.LEV.
@ OFFICE 2003
16 SCALE: 1/4" = 1-0"

KEY NOTES

1. WALL MOUNTED MIRROR, REFER TO SCHEDULE
2. WALL MOUNTED LAVATORY, SEE SCHEDULE.
3. SOAP DISPENSER, SEE SCHEDULE.
4. WALL TILE (FIELD/ACCENT/COVE BASE), REFER TO FINISH SCHEDULE.
5. 5/5 GRAB BAR, 36"W /42"W, SEE PLAN FOR LOCATION. REFER TO SCHEDULE.
6. TOILET PAPER DISPENSER, SEE SCHEDULE.
7. WALL MOUNTED WATER CLOSET, SEE SCHEDULE.
8. SEAT COVER DISPENSER, SEE SCHEDULE
9. PAINTED GYP. BD. WALL, SEE FINISH SCHEDULE
10. DOOR, FRAME AND HARDWARE, REFER TO DOOR SCHEDULE.
11. HAND DRYER, REFER TO SCHEDULE & ELECTRICAL DRAWING.
12. SEMI RECESSED WASTE RECEPTACLE, SEE SCHEDULE.
13. SCHEDULED BASE, SEE FINISH SCHEDULE.
14. H.M. FRAME WINDOW, REFER TO WINDOW SCHEDULE
15. FLOOR DRAIN, REFER TO PLUMBING DRAWING.
16. TILE FLOOR TRANSITION, SEE DETAIL 8/A-105
17. THINSET TILE FLOOR, REFER TO FINISH SCHEDULE
18. BACK SPLASH, REFER TO FINISH SCHEDULE
19. TRANSACTION SHELF, REFER TO DETAIL
20. TRANSACTION WINDOW, REFER TO WINDOW SCHEDULE
21. OUTLET @ 42" AFF. REFER TO ELECTRICAL DWG.
22. COAT HOOK, REFER TO SCHEDULE.

APPLIANCE SCHEDULE @ PANTRY 2009

TYPE	ITEM	MFR	MODEL #	COLOR/REMARKS
A	REFRIGERATOR	-	-	PROVIDED BY OWNER, CONTRACTOR TO INSTALL

PLUMBING FIXTURE/ ACCESSORY SCHEDULE @ PANTRY 2009 & 3015

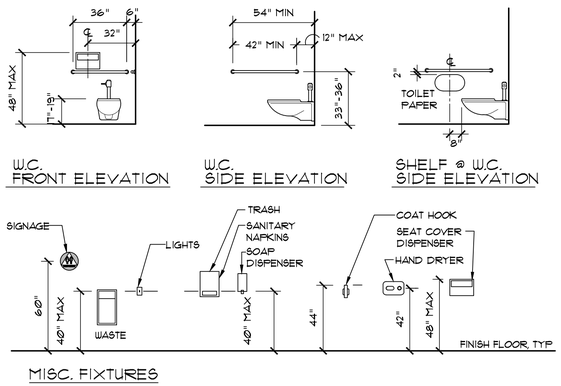
TYPE	ITEM	MFR	MODEL #	COLOR/REMARKS
1	SINK	ELKAY	LRAD2521653	
2	FAUCET	ELKAY	LK535AT14T6	

NOTE:

1. ALL TOILET ACCESSORY FINISHES TO BE NO. 4 SATIN BRUSHED, UON.

PLUMBING FIXTURE/ACCESSORY SCHEDULE @ BATHROOM

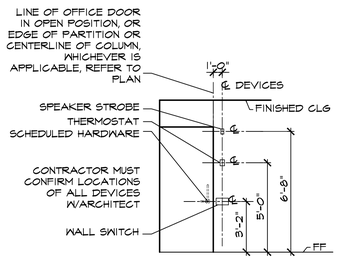
	ITEM	MFR	MODEL #	COLOR/REMARKS
HC	WALL-MOUNTED TOILET	AMERICAN STANDARD	AFWALL #2257.103 AMERICAN STANDARD #5905.100 ELONGATED EXTRA HEAVY DUTY OPEN FRONT SEAT LESS COVER. SLOAN #3111.6. SOLAR POWERED INFRARED SENSOR DUAL FLUSH VALVE. WADE 3000 SERIES CHAIR CARRIER.	WHITE; WALL HUNG LOW CONSUMPTION (1.6 GPF) ELONGATED DIRECT-FED SIPHON JET ACTION WATER CLOSET WITH EXPOSED SOLAR POWERED SENSOR FLUSH VALVE WITH BATTERY BACK UP. MOUNT ACCORDING TO ADA REQUIREMENT.
HC	SINK	AMERICAN STANDARD	DECLYN #0821.075 SLOAN "SOLIS" #EAF-275-ISM SOLAR POWERED INFRARED SENSOR HAND WASHING FAUCET WITH INTEGRAL SPOUT TEMPERATURE MIXING AND BATTERY BACK UP AND ETF 312A TRIM PLATE	WHITE: VITREOUS CHINA WALL HUNG LAVATORY WITH SOLAR POWERED INFRARED SENSOR FAUCET. PROVIDE GIRD STRAINER WITH 1 1/4" TAILPIECE WITH 1 1/4"X1 1/2" ADJUSTABLE "P" TRAP WITH CLEANOUT. PROVIDE 1/2" ANGLE SUPPLY VALVES LESS KEY WITH 3/8" O.D. RISERS. MOUNT ACCORDING TO ADA REQUIREMENT INDICATED
	WASTE RECEPTACLE	AWJ	U410	
	TOILET PAPER DISPENCER	AWJ	U884	
	SEAT COVER DISPENCER	BRADLEY	5831	
	SOAP DISPENSER	KIMBERLY-CLARK	#92145	COLOR: BLACK
	GRAB BAR	BOBRICK	B-5806 SERIES	1 1/4" DIA. S/S. CONCEALED FLANGE MOUNTING. LENGTH AS INDICATED ON PLAN. REFER TO CONSTRUCTION NOTE #64 ON A-101.
	HAND DRYER	EXCEL DRYER INC	XLERATOR XL-SB	ORDER WITH NOISE REDUCTION NOZLE
	MIRROR-1	AWJ	U-700 SERIES	24"x36" PROVIDE (1) PER TOILET ROOM
	MIRROR-2	AWJ	U-700 SERIES	24"x60" PROVIDE (1) PER TOILET ROOM
	COAT HOOK	BOBRICK	B-682	



B TYPICAL FIXTURE MOUNTING HEIGHTS
SCALE: N.T.S.

FOR REFERENCE
SEE RESTROOM ELEVATIONS TYP. NOT ALL ITEMS SHOWN MAY BE SCHEDULED /OR USED

NOTE:
ALL OUTLETS TO BE MOUNDED AT 18" AFF U.O.N. ON ELEVATION. COORDINATE MOUNTING HEIGHT OF LED SCREEN IN ROOM 2007 W/ OWNER.



A DEVICE MOUNTING DIAGRAM

NOTE:
COORDINATE ALL POWER/DATA DEVICE LOCATIONS WITH ELECTRICAL DRAWINGS.
ALL DEVICES SHALL BE COORDINATED WITH THE EQUIPMENT.
ALL RECEPTACLES & PLATE COVERS SHALL MATCH THE WALL COLOR.
ELECTRICAL CONTRACTOR TO CONFIRM ALL DEVICE COLORS WITH FINISH PLAN/SCHEDULE PRIOR TO ORDER & INSTALLATION.

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NO.	REVISION/ISSUE	DATE
2.	ISSUE FOR BID	05/10/2017
1.	ISSUE FOR 90% REVIEW	05/01/2017

SEAL

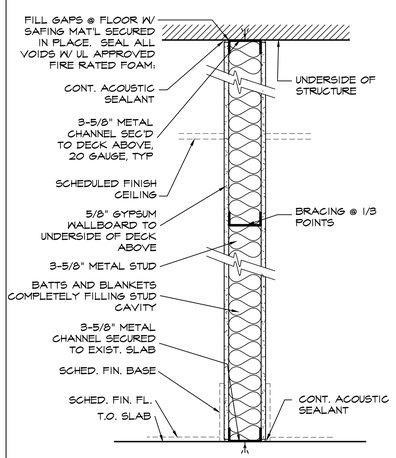
PROJECT
INTERIOR RENOVATION
CAMPUS CENTER SOUTH

DATE:	03/28/2017
PROJECT NO:	DA 16169 / SU 022317
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE
PARTIAL PLANS, INTERIOR ELEVATIONS & PLUMBING FIXTURE/ ACCESSORY SCHEDULES

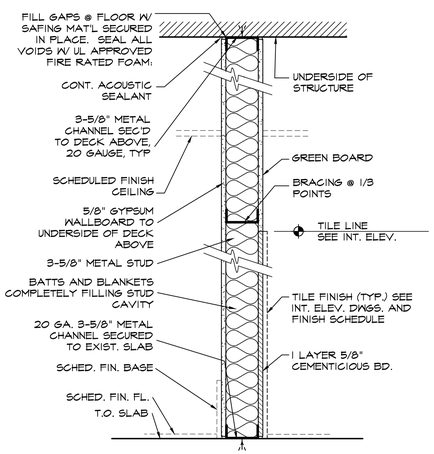
SHEET NO.
A-104

PARTITION TYPES



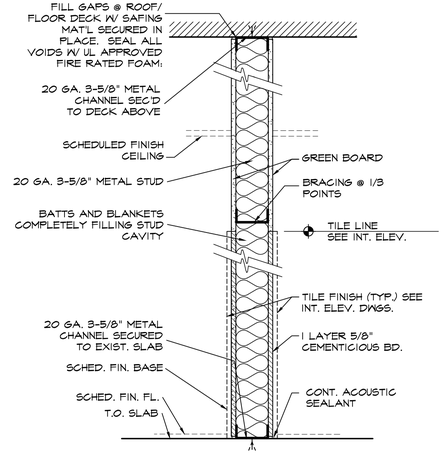
1 FULL HEIGHT PARTITION

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



2 FULL HEIGHT PARTITION

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



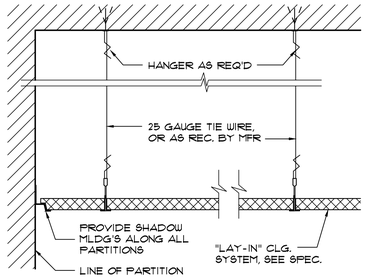
3 FULL HEIGHT PARTITION

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

3A FULL HEIGHT PARTITION

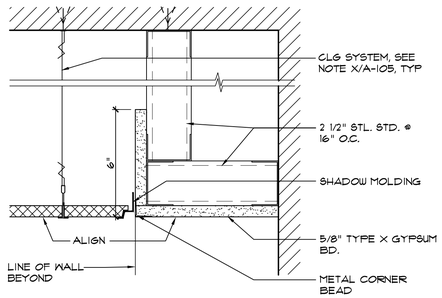
SAME AS TYPE 3 EXCEPT ELIMINATE (1) LAYER OF CEMENT BD/(1) LAYER OF GREEN BOARD & TILE FINISH ON ONE SIDE

CEILING DETAILS



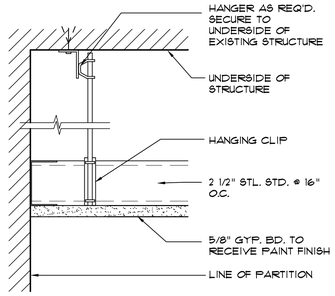
4 DETAIL @ SUSPENDED CLG, TYP

SCALE: 3" = 1'-0"



5 CEILING DETAIL

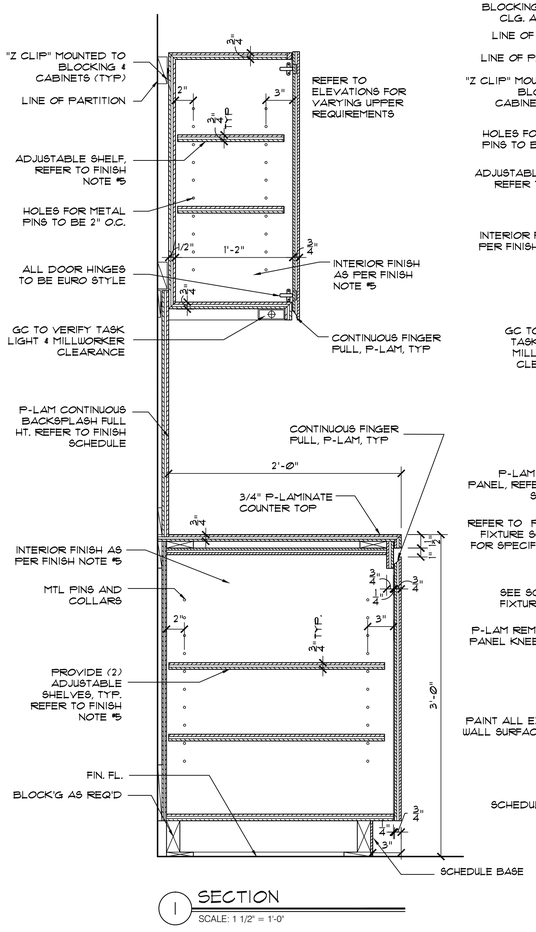
SCALE: 3" = 1'-0"



6 DETAIL @ GWB CEILING

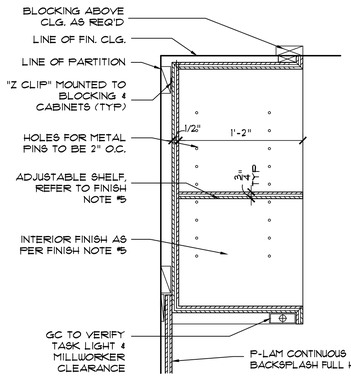
SCALE: 3" = 1'-0"

MILLWORK DETAILS



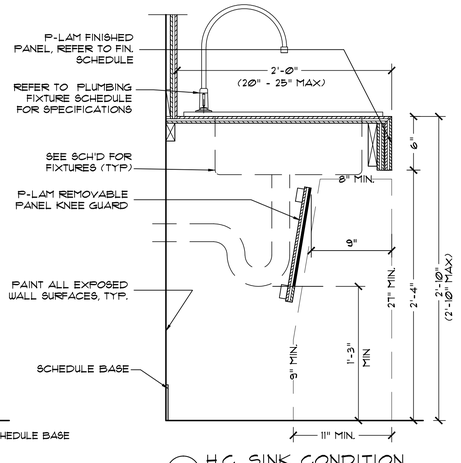
1 SECTION

SCALE: 1 1/2" = 1'-0"



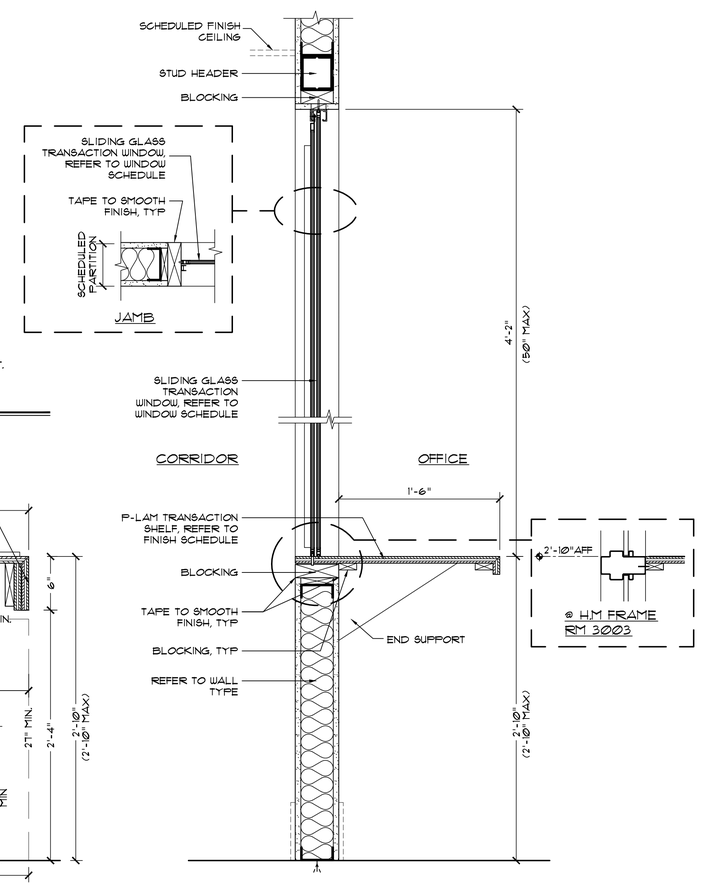
3 UPPER CABINET

SCALE: 1 1/2" = 1'-0"



2 H.C. SINK CONDITION

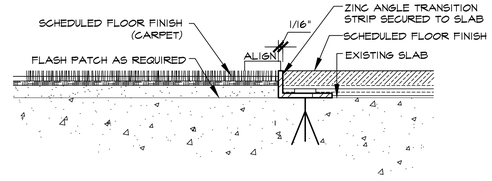
SCALE: 1 1/2" = 1'-0"



9 TRANSACTION SHELF

SCALE: 1 1/2" = 1'-0"

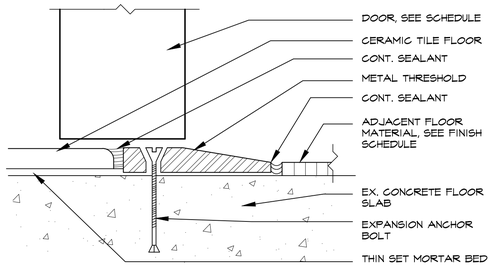
MISC. DETAILS



7 CARPET TO TILE TRANSITION

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

LOCATE TRANSITION STRIP AT ALL FLOOR FINISH TRANSITIONS. GC SHALL FLASH PATCH ALL AREAS RECEIVING CARPET, TILE AND VCT.



8 TILE FLOOR TRANSITION

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

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SEAL

PROJECT
INTERIOR RENOVATION
CAMPUS CENTER SOUTH

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DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE

PARTITION TYPES, MILLWORK DETAILS, CEILING DETAILS, AND MISC. DETAILS

SHEET NO.

A-105

DOOR SCHEDULE

FLOOR	DOOR NUMBER	DOOR TYPE	DOOR MATERIAL	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR THICKNESS	DOOR HAND	DOOR UNDERCUT AFF	FRAME TYPE	FRAME MATERIAL	FRAME THICKNESS	HARDWARE	FIRE RATING	REMARKS
2ND	20	A	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#1	-	SEE GENERAL NOTE BELOW
	21	A	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#1	-	
	22	EXISTING TO REMAIN										#2	-	PROVIDE KEY LOCK & NEW HARDWARE
	23	A	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#3	90	FURNISH AND INSTALL VON DUPRIN XP98-F RIM DEVICE/ADD CR/B LABEL DOOR AND FRAME
	24	A	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#3	-	PROVIDE CARD READER
3RD FLOOR	30	A	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#3		PROVIDE CARD READER
	31	A	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#3	-	PROVIDE CARD READER
	32	A	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#1	-	GENERAL NOTE: ALL NEW AND EXISTING DOORS SHALL BE STAINED. NEW DOORS SHALL BE UNFINISHED OAK VENEER AND STAINED TO MATCH CONTROL SAMPLE. EXISTING DOORS SHALL BE STRIPPED, SANDED, PREPPED AND STAINED TO MATCH CONTROL SAMPLE. CONTRACTOR TO SUBMIT STAIN SAMPLE FOR APPROVAL. ALL EXISTING DOORS ON THE 2ND AND 3RD FLOOR SHALL RECEIVE HARDWARE #2 INCLUDING ALL DOORS NOT ITEMIZED ON SCHEDULE.
	33	A	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#1	-	
	34	A	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#1	-	
	35	A	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#1	-	
	36	A	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#1	-	
	37	B	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#1	-	
	38	B	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#1	-	
	39	EXISTING TO REMAIN										#2	-	PROVIDE KEY LOCK & NEW HARDWARE
	40	A	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#3	-	PROVIDE CARD READER
	41	A	WD	(1) 3'-0"	x7'-4"	1 3/4"		3/8"	A	WD		#3	90	FURNISH AND INSTALL VON DUPRIN XP98-F RIM DEVICE/ADD CR/B LABEL DOOR AND FRAME

HARDWARE SET

NOTE: HARDWARE SUPPLIER IS RESPONSIBLE FOR DETAILING THE APPROPRIATE SIZE AND WEIGHT AS PER LOCAL CODES AND NFPA 80 REQUIREMENTS. ALL FINISHES 619 SATIN NICKEL.

HARDWARE SET #1
ALL NEW DOORS
(EXCEPT CR DOORS)

LOCKSET SCHLAGE ND SERIES
MORTISE LOCKSET
RHODES 619
W/ REMOVABLE CORES
ORDER W/ BEST CORES
(COORDINATE W/OWNER)

CLOSER NORTON 7703H
PARALLEL RIGID ARM

HINGES STANLEY CB1960
FULL MORTISE, 3 KNUCKLE
32 BRIGHT 5/5
1 1/2 PAIR PER DOOR

SILENCERS IVES 3/DOOR

DOOR STOPS IVES DOME #436

HARDWARE SET #2
ALL EXISTING DOORS
ON FLOORS 2/3

LOCKSET SCHLAGE ND SERIES
CYLINDRICAL LOCKSET
RHODES 619
W/ REMOVABLE CORES
ORDER W/ BEST CORES
(COORDINATE W/OWNER)

SILENCERS IVES 3/DOOR

DOOR STOPS IVES DOME #436

CLEAN ALL EXISTING HINGES
AND DOOR CLOSERS

HARDWARE SET #3
ALL CARD READER DOORS

LOCKSET SCHLAGE L909 SERIES
ELECTRIFIED MORTISE LOCKSET
RHODES 619
W/ REMOVABLE CORES
ORDER W/ BEST CORES
(COORDINATE W/OWNER)

LCN SENIOR SWING 4500 SERIES
PARALLEL RIGID ARM

HINGES STANLEY CB1960
FULL MORTISE, 3 KNUCKLE
32 BRIGHT 5/5
1 1/2 PAIR PER DOOR

SILENCERS IVES 3/DOOR

DOOR STOPS IVES DOME #436

ELECTRIC STRIKE VON DUPRIN 6111

NOTES:

ALL HARDWARE SHALL BE NEW, UNLESS OTHERWISE NOTED. ONLY FIRE RATED HARDWARE IS TO BE USED. PROVIDE ONLY BUILDING STANDARD HARDWARE AND ACCESSORIES.

ALL DOOR LOCKSETS SHALL CONFORM TO THE BUILDING'S STANDARD KEYING REQUIREMENT TO BE COORDINATED WITH OWNER AND TENANT. ALL ROOM KEYS TO BE TAGGED WITH ROOM NUMBERS. GC IS TO FURNISH AND INSTALL CORES, COORDINATE W/OWNER.

ALL ELECTRIC LOCKSETS TO BE FAIL-SAFE AND HAVE INTEGRAL REQUEST TO EXIT. (REFER TO ELECTRICAL DRAWINGS.)

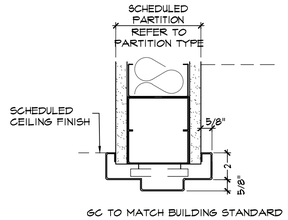
DOORS INDICATED WITH CARD READER, FURNISHED AND INSTALLED BY GC (REFER TO ELECTRICAL DRAWINGS.)

COORDINATE ALL SECURITY DEVICES WITH ELECTRICAL CONTRACTOR AND OWNER'S SECURITY VENDOR.

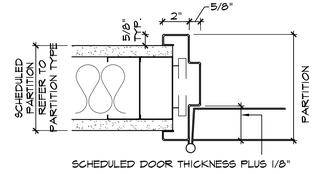
CONTRACTOR SHALL SUBMIT DOOR FRAME AND HARDWARE SHOP DRAWINGS FOR REVIEW AND APPROVAL, PRIOR TO FABRICATION.

PROVIDE FLOOR DOOR STOP AS APPROPRIATE FOR EACH NEW DOOR.

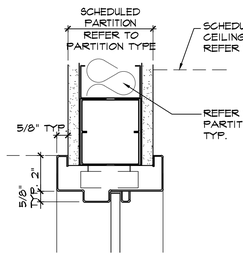
ALL DOOR HARDWARE, CLOSERS, ETC. ARE TO MEET THE REQUIREMENTS OF BC SECTION 1008.1.8. DOOR OPERATIONS AND ANSI 117.1-2003 SECTION 404 DOORS AND DOORWAYS INCLUDING 404.2.6 DOOR HARDWARE.



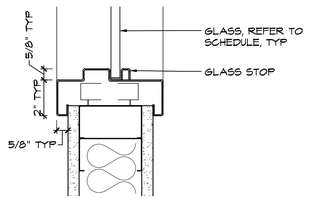
1 DETAIL @ HEAD
SCALE: 3" = 1'-0"



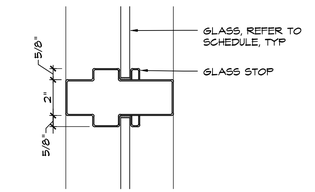
2 DETAIL @ JAMB
SCALE: 3" = 1'-0"



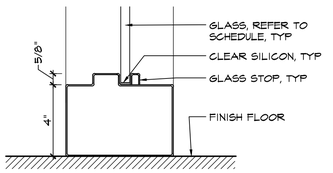
3 DETAIL @ HEAD
SCALE: 3" = 1'-0"



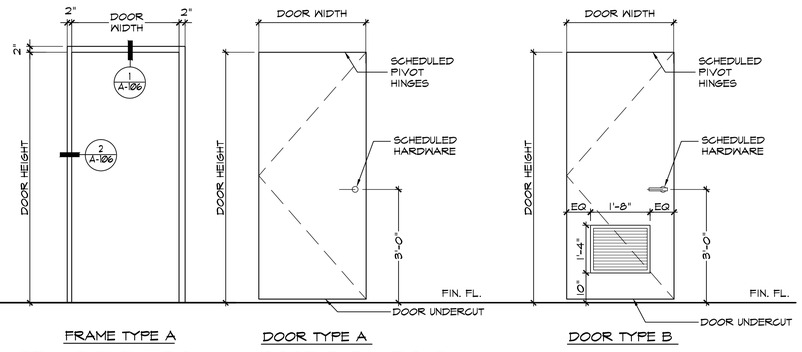
4 DETAIL @ SILL
SCALE: 3" = 1'-0"



6 DETAIL @ HORR. MULLION
SCALE: 3" = 1'-0"



5 DETAIL @ SILL
SCALE: 3" = 1'-0"



FRAME TYPE A
FRAME ELEVATION

DOOR TYPE A
DOOR ELEVATIONS
1/2" = 1'-0"

DOOR TYPE B

WINDOW SCHEDULE

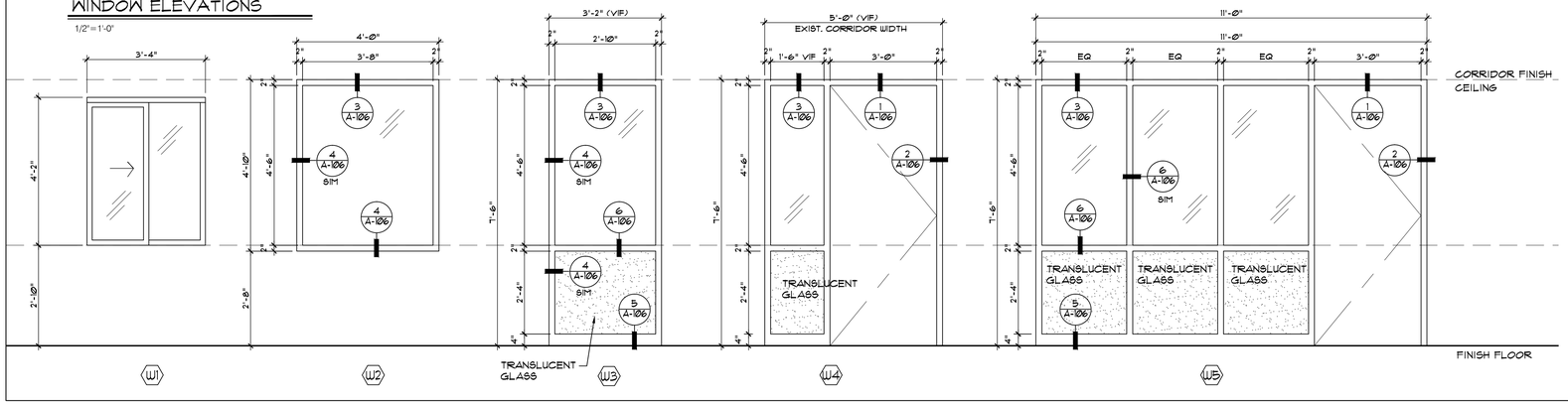
WINDOW ID.	LOCATION	R.O. WIDTH x HEIGHT	TYPE	HEAD	JAMB	SILL	GLAZING	FIRE RATING MIN./TE	REMARKS
W1	OFFICE 2003, 3003	3'-4" x 4'-2"	-	-	-	-	1/4" TEMPERED GLASS	-	CRL MODEL #D1038A. PROVIDE KEY LOCK, COORDINATE W/ OWNER. PROVIDE LATCH. REFER TO 7/A-106 AND DETAIL 9/A-105. ORDER GLAZING SEPARATELY, COORDINATE W/ MANUFACTURER.
W2	OFFICE 2003	4'-0" x 4'-10"	-	-	-	-	1/2" TEMPERED GLASS	-	
W3	OFFICE 3003	3'-2" (VIF) x 7'-6"	-	-	-	-	1/2" TEMPERED GLASS	-	
W4	CORRIDOR 3020/3020A	5'-0" (VIF) x 7'-6"	-	-	-	-	1/2" TEMPERED GLASS	-	
W5	OFFICE 3003	11'-0" x 7'-6"	-	-	-	-	1/2" TEMPERED GLASS	-	

WINDOW NOTES:

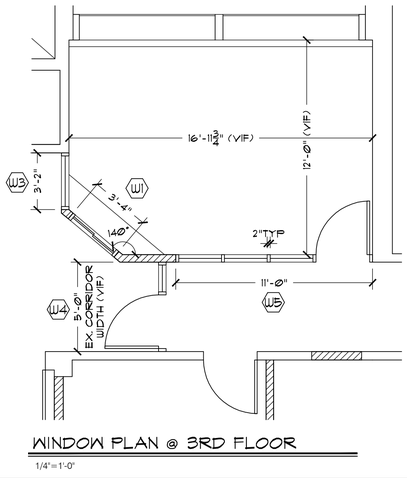
1. ALL DIMENSIONS MUST BE FIELD VERIFIED.
2. REFER TO WINDOW PLAN ON A-106

WINDOW ELEVATIONS

1/2" = 1'-0"



7 SLIDING GLASS DETAIL
SCALE: N.T.S.



WINDOW PLAN @ 3RD FLOOR
1/4" = 1'-0"

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SEAL

PROJECT
INTERIOR RENOVATION
CAMPUS CENTER SOUTH

DATE:	03/28/2017
PROJECT NO:	DA 16169 / SU 022317
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE
DOOR SCHEDULE, WINDOW SCHEDULE, & DETAILS

SHEET NO.
A-106

HVAC SYMBOLS

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

———	SINGLE LINE DUCTWORK OR EQUIPMENT – NEW
—·—·—·—·—	SINGLE LINE DUCTWORK OR EQUIPMENT – EXISTING
—X—·····—X—·····—X—	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)
VD	VOLUME DAMPER
T	THERMOSTAT
	DIAMETER
	POINT OF CONNECTION
	POINT OF DISCONNECTION
CD–"X" (400)	TYPE A CEILING DIFFUSER (400 CFM SUPPLY AIR)
CD (400)	SQUARE CEILING DIFFUSER WITH SQUARE NECK 400 CFM SUPPLY AIR
CR(CG) (300)	CEILING REGISTER (CEILING GRILLE) 300 CFM RETURN AIR
	THERMOSTAT

HVAC ABBREVIATIONS

AD	ACCESS DOOR
ATC	AUTOMATIC TEMPERATURE CONTROLS
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CLG	CEILING
CR	CEILING REGISTER
DWG	DRAWING
EF	EXHAUST FAN
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXP	EXPANSION
EXIST	EXISTING
FD	FIRE DAMPER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OED	OPEN ENDED DUCT
PD	PRESSURE DROP
RA	RETURN AIR
RHC	REHEAT COIL
RM	ROOM
SA	SUPPLY AIR
SP	STATIC PRESSURE
SPEC	SPECIFICATION
TEMP	TEMPERATURE
TRD	TRANSFER DUCT
TYP	TYPICAL
RG	RETURN GRILLE
LWTF	LOW WATER TEMPERATURE FLOW
LWT	LEAVING WATER TEMPERATURE

GENERAL NOTES

1. GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC. DETERMINE 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 EXCEPT IN WAY OF STRUCTURAL STEEL, DIMENSIONS ARE MEASURED PERPENDICULAR TO FLANGE.
5. NEITHER ACCURACY NOR COMPLETION OF SERVICES AND UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING SERVICES AND UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
6. MANUFACTURERS MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
7. PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURER'S RECOMMENDATIONS.
8. PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
9. PROVIDE HANGERS, INSERTS, ANCHORS, SUPPLEMENTAL STEEL & SUPPORTS AS REQUIRED TO SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM STRUCTURE.
10. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERING WITH EXISTING OPERATIONS IN THE FACILITY.
12. RUN DUCTS AND PIPING CONCEALED, UNLESS OTHERWISE SPECIFIED AND CLEAR OF CEILING INSERTS.
13. INSTALL THERMOSTATS 4'–6" ABOVE FINISHED FLOOR OR AS DIRECTED OTHERWISE BY ARCHITECT.
14. STRUCTURAL WELDING SHALL BE CONTINUOUS 1/4" FILLET UNLESS REQUIRED OTHERWISE.

AIR SYSTEMS

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. REGISTERS AND GRILLE SIZES ARE NOMINAL
5. PROVIDE VOLUME DAMPERS OR OTHER APPROVED BALANCING DEVICES AT DUCT BRANCHES AND RUN OUTS, AND AT REGISTER AND GRILLE IN SUPPLY AND RETURN DUCTWORK SHOWN OR NOT.
6. PROVIDE 36" CLEARANCE IN FRONT OF ALL ELECTRIC CONTROL PANELS PER N.E.C. AND MFG. REQUIREMENTS.
7. PROVIDE DUCT TRANSITIONS FROM REHEAT COIL OUTLET DUCT WORK AT SIZES INDICATED TO DIFFUSER/REGISTER CONNECTIONS.
8. DUCT INLET SIZE SHALL BE AS SCHEDULED OR AS INDICATED ON THE FLOOR PLANS. PROVIDE TRANSITION FROM DUCT SIZE INDICATED ON THE FLOOR PLANS TO INLET AND DISCHARGE SIZE OF SCHEDULED EQUIPMENT.

OCCUPANT SAFETY NOTES:

1. EGRESS: AT ALL TIMES DURING THE COURSE OF CONSTRUCTION PROVISION SHALL BE MADE FOR ADEQUATE EGRESS AS REQUIRED BY CODE AND THE TENANT PROTECTION PLAN SHALL IDENTIFY THE EGRESS THAT WILL BE PROVIDED. REQUIRED EGRESS SHALL NOT BE OBSTRUCTED AT ANY TIME.
2. FIRE SAFETY: ALL NECESSARY LAWS AND CONTROLS, AS WELL AS ADDITIONAL SAFETY MEASURES NECESSITATED BY THE CONSTRUCTION SHALL BE OBSERVED.
3. HEALTH REQUIREMENTS: SPECIFICATION OF METHODS TO BE USED FOR CONTROL OF DUST, DISPOSAL OF CONSTRUCTION DEBRIS, PEST CONTROL AND MAINTENANCE OF SANITARY FACILITIES, AND LIMITATION OF NOISE TO ACCEPTABLE LEVELS SHALL BE INCLUDED.
4. STRUCTURAL SAFETY: NO STRUCTURAL WORK SHALL BE DONE THAT MAY ENDANGER THE BUILDING OCCUPANTS.
5. NOISE RESTRICTIONS: WHERE HOURS OF THE DAY OR THE DAYS OF THE WEEK IN WHICH CONSTRUCTION WORK MAY BE UNDERTAKEN ARE LIMITED PURSUANT TO THE NEW YORK STATE, AND LOCAL ORDINANCE NOISE CONTROL CODE SUCH LIMITATIONS SHALL BE STATED.

MECHANICAL DRAWING LIST

□□M□□A□□□□ □□□□□□□

TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGMENT, THIS APPLICATION IS IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE 2015.

PIPING INSULATION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE AND CITATION
WATER OPER. TEMP. RANGE AND USAGE (°F): 141–200 141–200	 NOM PIPE SIZE 1.5"–4": 2" THICK (K ≤ 0.27 BTU/IN/HR–FT²–°F) NOM PIPE SIZE 1"–1.5": 1.5" THICK (K ≤ 0.27 BTU/IN/HR–FT²–°F)	 NOM PIPE SIZE 1.5"–4": 2" THICK (K ≤ 0.27 BTU/IN/HR–FT²–°F) TABLE C403.2.10 NOM PIPE SIZE 1"–1.5": 1.5" THICK (K ≤ 0.27 BTU/IN/HR–FT²–°F) TABLE C403.2.10

DUCTWORK INSULATION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE AND CITATION
SUPPLY/RETURN DUCTS O.A. DUCTS/PLENUMS IN UNCONDITIONED SPACES	R–6	R–6

NOTES:

1. ALL DUCTS SHALL BE SEALED.
2. JOINTS AND SEAMS SHALL COMPLY WITH SECTION 603.9 OF THE 2015 NYS MECHANICAL CODE AND 2015 NYS ENERGY CONSERVATION CODE.
3. EACH COOLING/HEATING SYSTEM SHALL BE SUPPLIED WITH THERMOSTATIC CONTROLS PER SECTION C403.2.4.1 OF 2015 IECC.
4. THERMOSTATIC CONTROLS SHALL BE PROVIDED WITH A DEAD BAND RANGE OF 5°F PER SECTION C403.2.4.1.1 OF 2015 IECC.
4. AIR SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH SECTION C408.2.2.1 OF 2015 ICECC.

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SEAL

PROJECT

INTERIOR RENOVATION
CAMPUS CENTER SOUTH

DATE:	05/01/2017
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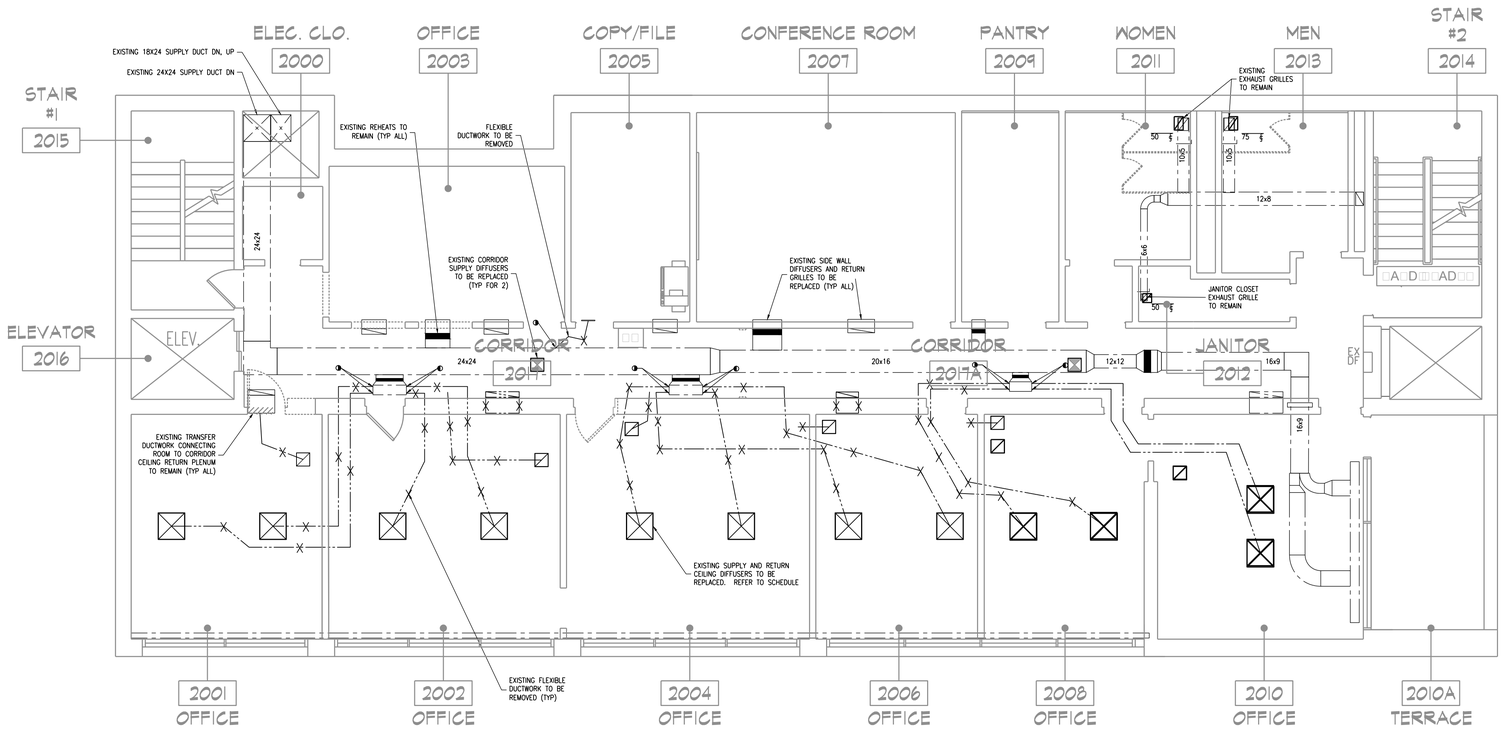
DRAWING TITLE

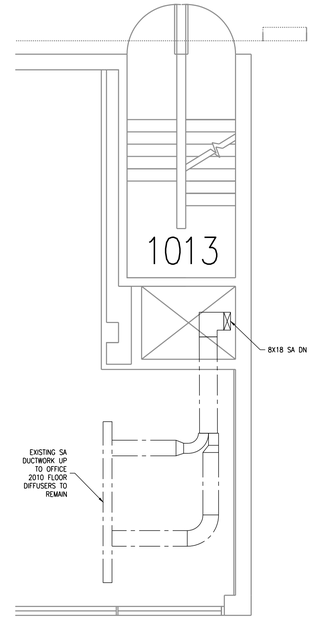
MECHANICAL NOTES□ SYMBOLS□ AND DRAWING LIST

SHEET NO.

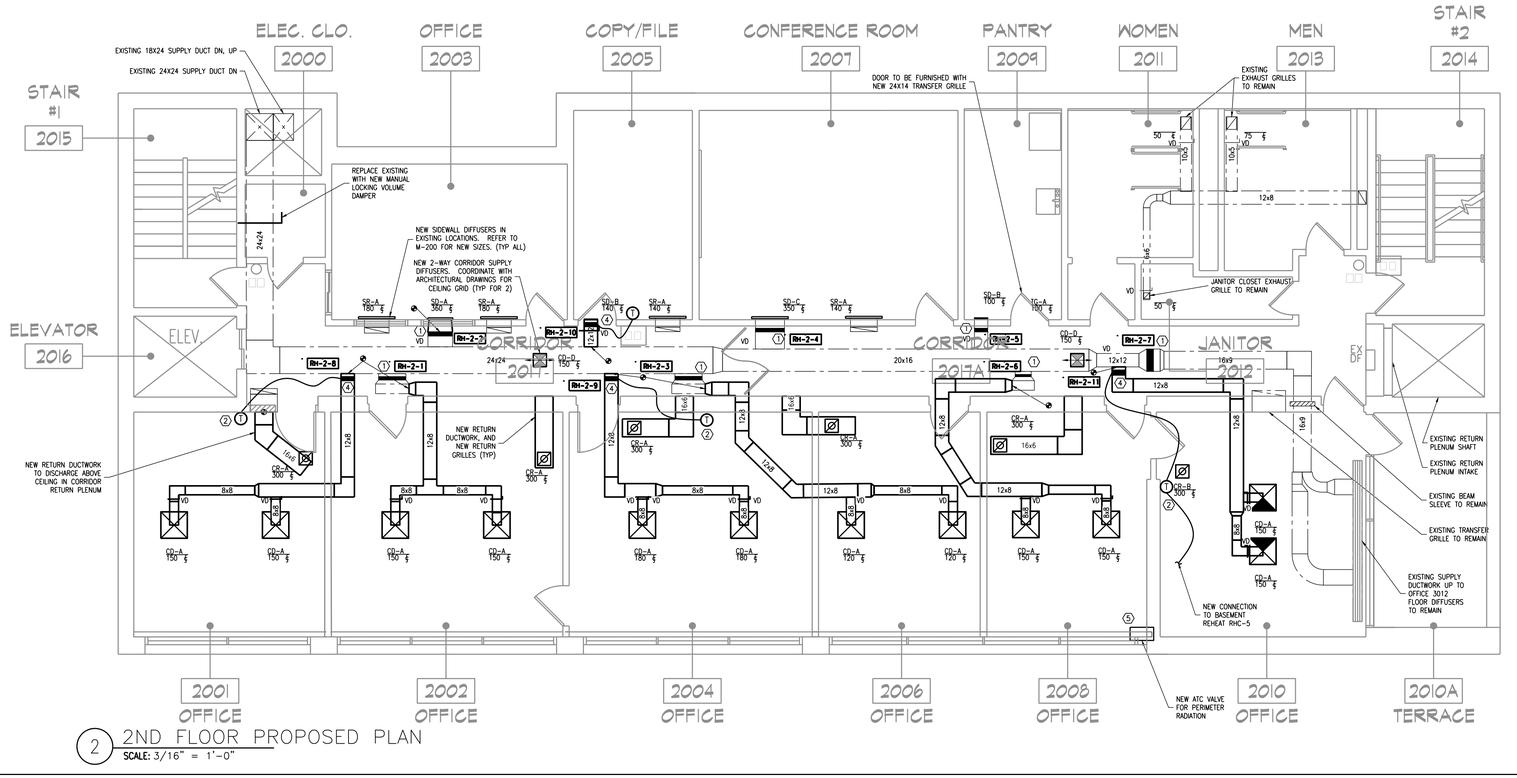
M-001



1 2ND FLOOR – DEMOLITION
SCALE: 3/16" = 1'-0"



3 1ST FLOOR – EXISITNG PART PLAN
SCALE: 3/16" = 1'-0"



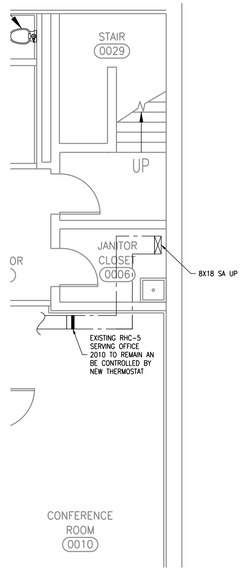
2 2ND FLOOR PROPOSED PLAN
SCALE: 3/16" = 1'-0"

GENERAL NOTES

1. DISCONNECT AND REMOVE EXISTING DIFFUSERS, AND DUCTWORK AS INDICATED AND REQUIRED.
2. MODIFY/EXTEND EXISTING BRANCH DUCTWORK TO THE NEW DIFFUSER AND GRILLE LOCATIONS.
3. PROVIDE NEW BALANCING DAMPERS TO ALLOW AIR FLOW ADJUSTMENTS FOR RELOCATED DIFFUSERS.
4. BALANCE EXISTING AND NEW DIFFUSER FOR CFM AS SHOWN.
5. COLOR OF NEW DIFFUSERS AND GRILLES BY ARCHITECT
6. SEE SPECS FOR NEW DIFFUSERS
7. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN.
8. ALL NEW DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE.
9. OFFICE 2010 RHC-5 & RH-2-11 TO BE CONTROLLED IN PARALLEL.
10. ADDITIONAL CONTROLS WORK NOT SHOWN WILL BE PROVIDED BY CONTROLS CONTRACTOR UNDER SEPARATE CONTRACT. CONTRACTOR SHALL COORDINATE ALL ATC WORK WITH CONTROLS CONTRACTOR.

KEY NOTES:

1. EXISTING REHEAT COIL TO REMAIN. EXISTING CONTROL VALVE TO BE INSPECTED AND REPLACED BY OTHERS
2. PROVIDE NEW THERMOSTAT CAPABLE OF CONNECTION TO EXISTING ATC SYSTEM
3. EXISTING LTWF PIPE TO REMAIN
4. NEW REHEAT COIL TO BE ADDED TO SYSTEM USING 3/4" BRANCH PIPING OFF OF MAIN CIRCULATION LOOP. NEW CONTROL VALVE AND ASSOCIATED PIPING TO BE FURNISHED AND INSTALLED.
5. EXISTING PERIMETER RADIATION ZONE TO RECEIVE NEW ATC CONTROL VALVE, ACTUATOR, AND INDEPENDENT CONTROLLER.



4 BASEMENT – EXISTING PART PLAN
SCALE: 3/16" = 1'-0"

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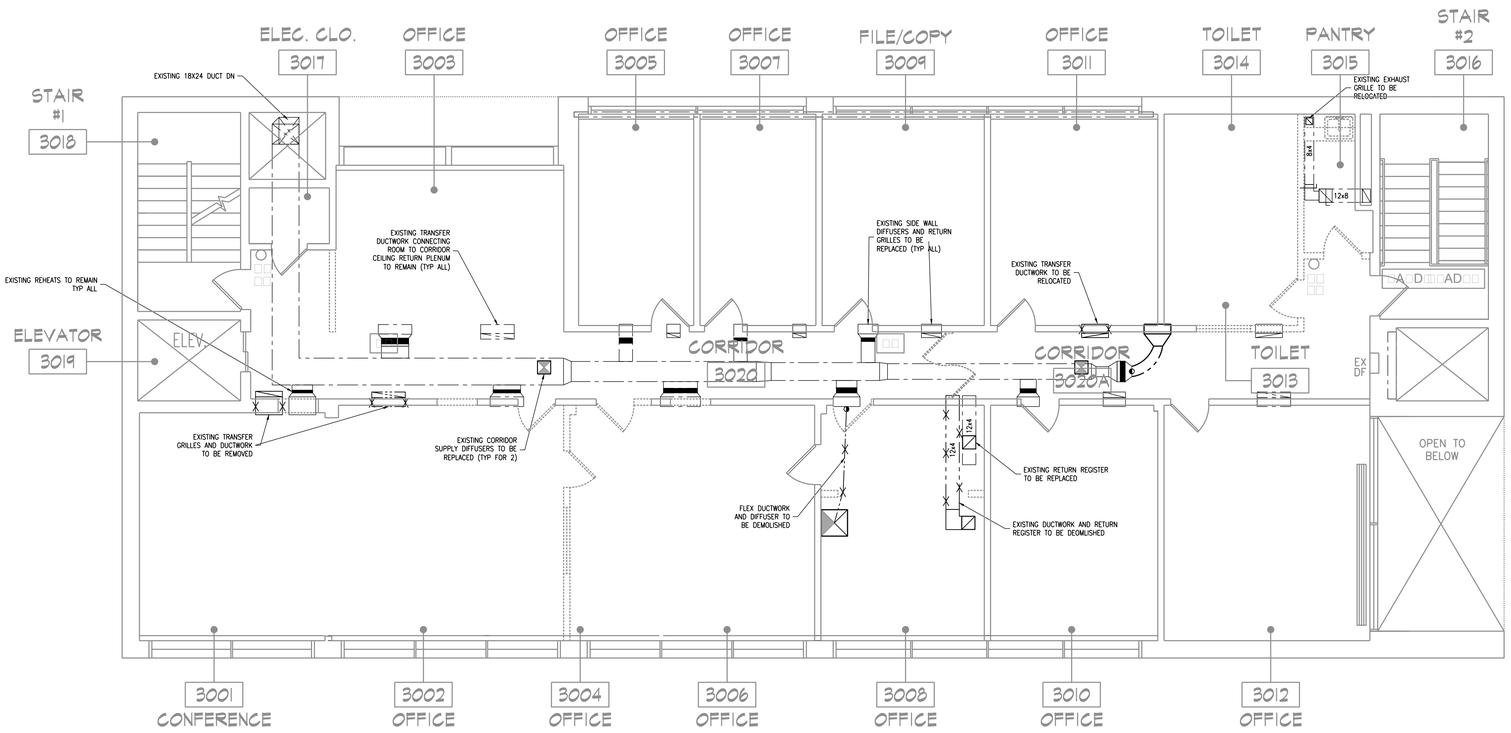
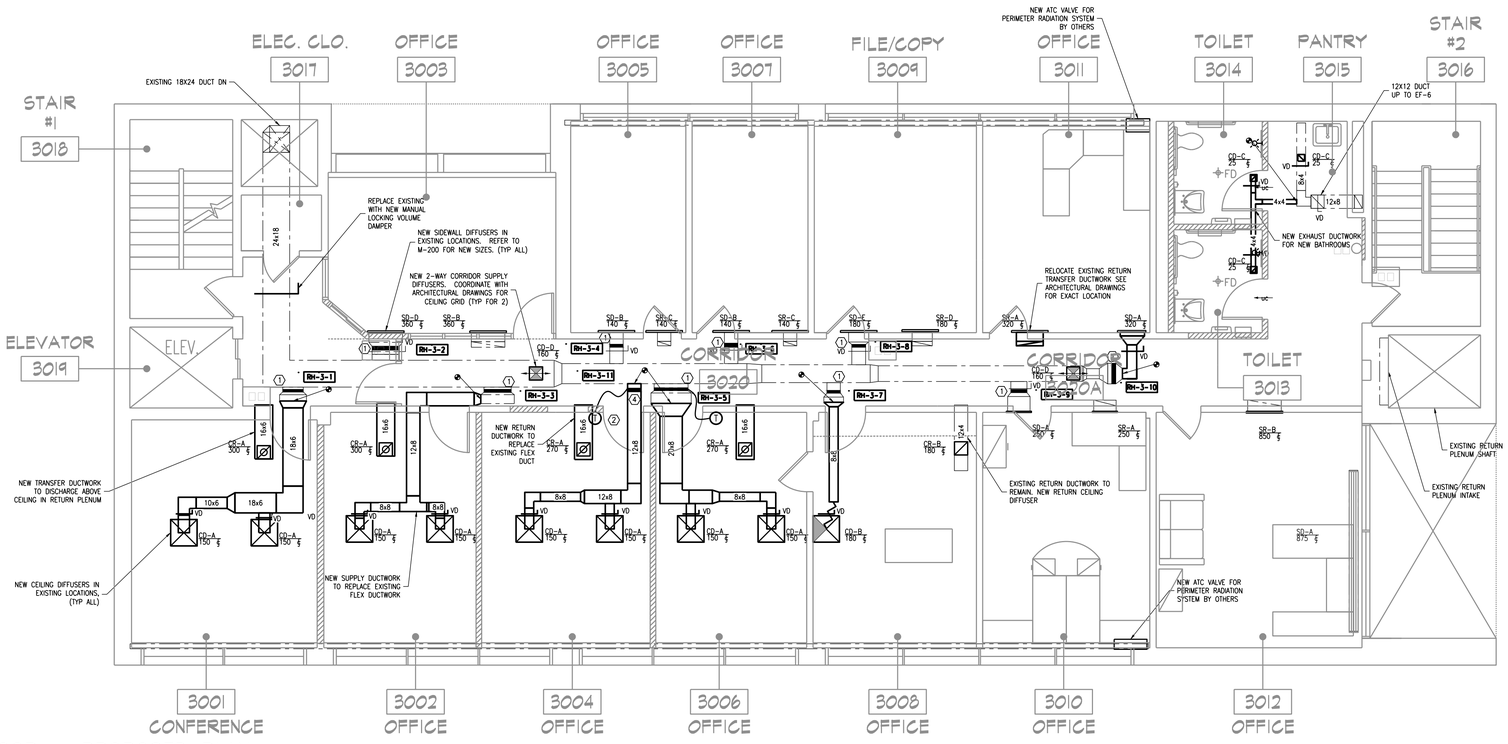
DRAWING TITLE
2ND FLOOR DEMOLITION & PROPOSED

SHEET NO.
M-100



1 3RD FLOOR – DEMOLITION

SCALE: 3/16" = 1'-0"



2 3RD FLOOR – PROPOSED PLAN

SCALE: 3/16" = 1'-0"

GENERAL NOTES

1. DISCONNECT AND REMOVE EXISTING DIFFUSERS, AND DUCTWORK AS INDICATED AND REQUIRED.
2. MODIFY/EXTEND EXISTING BRANCH DUCTWORK TO THE NEW DIFFUSER AND GRILLE LOCATIONS.
3. PROVIDE NEW BALANCING DAMPERS TO ALLOW AIR FLOW ADJUSTMENTS FOR RELOCATED DIFFUSERS.
4. BALANCE EXISTING AND NEW DIFFUSER FOR CFM AS SHOWN.
5. COLOR OF NEW DIFFUSERS AND GRILLES BY ARCHITECT
6. SEE SPECS FOR NEW DIFFUSERS
7. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN.
8. ALL NEW DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE.
9. NEW ATC PERIMETER RADIATION VALVES BY OTHERS
10. ADDITIONAL CONTROLS WORK NOT SHOWN WILL BE PROVIDED BY CONTROLS CONTRACTOR UNDER SEPARATE CONTRACT. CONTRACTOR SHALL COORDINATE ALL ATC WORK WITH CONTROLS CONTRACTOR.

KEY NOTES:

1. EXISTING REHEAT COIL TO REMAIN. EXISTING CONTROL VALVE TO BE INSPECTED AND REPLACED BY OTHERS
2. PROVIDE NEW THERMOSTAT CAPABLE OF CONNECTION OF EXISTING ATC SYSTEM
3. EXISTING LTWF PIPE TO REMAIN
4. NEW REHEAT COIL TO BE ADDED TO SYSTEM USING 3/4" BRANCH PIPING OFF OF MAIN CIRCULATION LOOP. NEW CONTROL VALVE AND ASSOCIATED PIPING TO BE FURNISHED AND INSTALLED

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INTERIOR RENOVATION
CAMPUS CENTER SOUTH

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DRAWING TITLE

3RD FLOOR DEMOLITION & PROPOSED PLANS

SHEET NO.

M-101

1 UPPER ROOF PLAN – DEMOLITION
SCALE: 3/16" = 1'-0"

2 UPPER ROOF PLAN – PROPOSED PLAN
SCALE: 3/16" = 1'-0"

GENERAL NOTES

1. DISCONNECT AND REMOVE EXISTING EXHAST FAN, AND DUCTWORK AS INDICATED AND REQUIRED.
2. PROVIDE NEW CURB TRANSITION DUCTWORK AND FLASHING AS REQUIRED.
3. BALANCE EXISTING AND NEW EXHAUST GRILLES FOR CFM AS SHOWN.
4. SEE SPECS FOR NEW EXHAUST FAN
5. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN.
6. ALL ROOF WORK TO BE DONE BY CERTIFIED ROOFING CONTRACTOR APPROVED BY THE ROOFING MATERIAL MANUFACTURER, AND COMPATIBLE WITH THE SIPLAST ROOFING MEMBRANE

KEY NOTES:

1 REPLACE EXISTING EXHAUST FAN

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DRAWING TITLE
UPPER ROOF DEMOLITION AND CONSTRUCTION PLAN

SHEET NO.
M-102

SELECTION BASED ON ANEMOSTAT PDX, 3PD, 3PU, 25, FDLS

DIFFUSER & REGISTER SCHEDULE

UNIT NO.	CFM	SERVICE	TYPE	NECK SIZE (IN.)	FACE OVERALL DIMENSIONS WxL (IN.)	MODEL	REMARKS
CD-A	0-300	SUPPLY	CEILING	8X8	24X24	PDX	NOTES; 1,2,3
CD-B	0-300			8X8	24X24	PDX	3 - WAY THROW, NOTES; 1,2,3
CD-C	0-300			8X8	8X8	35-0	NOTES; 1,2,3
CD-D	0-300			8X8	24X24	PDX	2 - WAY THROW, NOTES; 1,2,3
SD-A	0-500		SIDE WALL		20X12	25/L	NOTES; 1,7
SD-B	0-500				12X12	25/L	NOTES; 1,7
SD-C	0-500				24X12	25/L	NOTES; 1,7
SD-D	0-500				32X12	25/L	NOTES; 1,7
SD-E	0-150				20X12	25/L	NOTES; 1,7
SD-F	0-150				12X6	25/L	NOTES; 1,7
SD-G	0-150				12X6	25/L	NOTES; 1,7
CR-A		RETURN	CEILING	10X10	24X24	3PD	NOTES; 1,2,3,4,5
CR-B				—	24X24	3PU	NOTES; 1,2,3,4,5
SR-A			SIDE WALL		24X12	GC5	NOTES; 1,6
SR-B			SIDE WALL		32X12	GC5	NOTES; 1,6
SR-C			SIDE WALL		12X12	GC5	NOTES; 1,6
SR-D			SIDE WALL		20X12	GC5	NOTES; 1,6
TG-A			TRANSF GRILLE		24X14	FDLS	

NOTES:
1. FURNISH AND INSTALL DIFFUSERS WITH EQUALIZING GRIDS AND OPPOSED BLADE DAMPERS.
2. COORDINATE BORDERS WITH CEILING CONSTRUCTION.
3. WHERE 24X24 LAY IN CEILINGS ARE INSTALLED, AIR OUTLETS SHALL BE FULL TILE SIZE.
4. INSTALL RETURN GRILLES WITH OPPOSED BLADE DAMPERS
5. RETURN GRILLES SHALL BE INSTALLED INTO LAY IN CEILINGS WHERE SHOWN
6. RETURN GRILLES SHALL BE STEEL WITH 1/2" BLADE SPACING
7. SIDE WALL SUPPLY DIFFUSERS TO BE DOUBLE DEFLECTION.

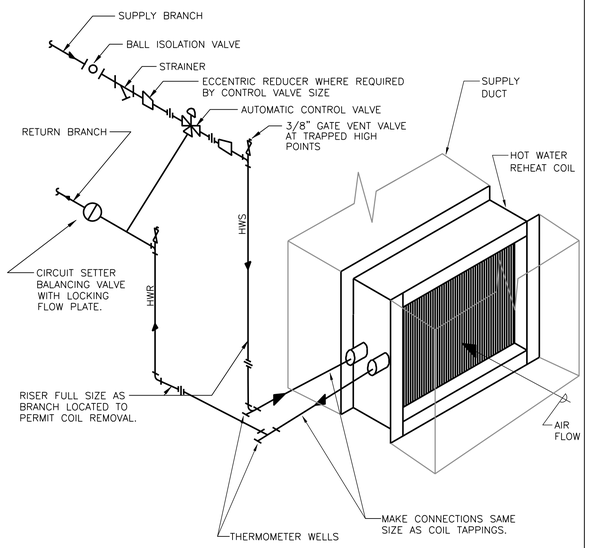
FAN SCHEDULE

FAN NO.	AREA SERVED	SERVICE	PERFORMANCE DATA CFM	TOTAL SP (IN.WG)	RPM	HP	MOTOR DATA VOLTAGE/ PHASE	REMARKS
EF-6	BATHROOMS		275	.408	1550	1/20	115/1	CUE-080-D

HOT WATER REHEAT COIL SCHEDULE

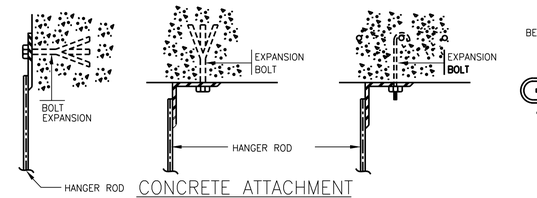
UNIT NO.	CFM	SP (IN.)	EAT (°F)	LAT (°F)	PIPE SIZE	EWT (°F)	GPM	PD (FT.)	CV	REMARKS
RH-2-8	300	.071	55	90	3/4"	180	1.03	.1	4.95	1,2
RH-2-9										1,2
RH-2-10										1,2
RH-2-11										1,2,3
RH-3-11										1,2

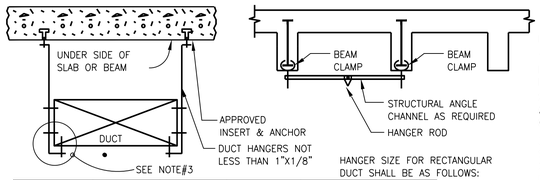
NOTES:
1. REHEAT COILS BASED ON TRANE MODEL DTOB060120AA110EABA0OB
2. SIEMENS POWERMITE 599-02004 VALVE WITH NC, SSC81U ACTUATOR OR APPROVED EQUAL TO BE FURNISHED AND INSTALLED AS CONTROL VALVE/ACTUATOR ASSEMBLY
3. RH-2-11 TO BE FURNISHED WITH SSC61U 0-10V PROPORTIONAL CONTROL ACTUATOR.



NOTES:
1. CONNECTIONS TO COIL INLET & OUTLET SHALL BE FULL SIZE OF COIL TAPPINGS AND SHALLBE PROVIDE WITH UNIONS OR FLANGES TO FACILITATE COIL REMOVALS. AND CONNECT TO ADDED COILS.
2. MAKE BRANCH PIPING CONECTIONS TO COIL HEADERS TO ACHIEVE AIR-WATER COUNTERFLOW. PLUG COIL HEADER TAPPINGS WITH NO CONNECTIONS.

DUCT-MOUNTED HOT WATER REHEAT COIL PIPING



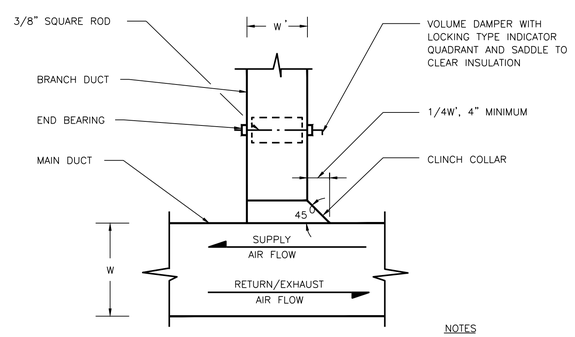


HANGER SIZE FOR RECTANGULAR DUCT SHALL BE AS FOLLOWS:

LONGEST DIMENSION OF DUCT	ROUND HANGERS	MAX SPACING SEE NOTE #4	STRAP HANGERS	TRAPEZE SHELF ANGLES
UP TO 18"	8"GA.WIRE	8'-0"	1"X1/8"	1"X1"X 1/8"
19" TO 30"	1/4" ROD	8'-0"	1"X1/8"	1"X1"X 1/8"
31" TO 42"	1/4" ROD	8'-0"	1"X1/8"GA.	1 1/2"X 1 1/2"X 1/8"
43" TO 60"	3/8" ROD	4'-0"	———	1 1/2"X 1 1/2"X 1/8"
61" TO 84"	3/8" ROD	4'-0"	———	2"X2"X1/8"
85" TO 96"	3/8" ROD	4'-0"	———	2"X2"X 3/16"
OVER 97"	3/8" ROD	4'-0"	———	2"X2"X 1/4"

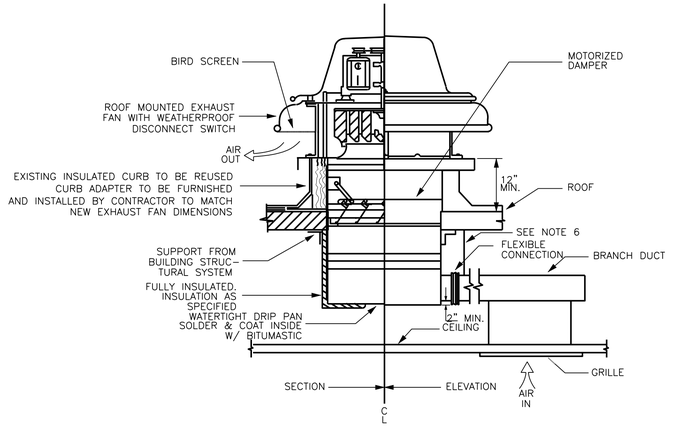
NOTES:
1. ALL DUCT TO BE HUNG FROM BUILDING CONSTRUCTION NOT TO BE SUPPORTED FROM HUNG CEILING.
2. WHEN DUCT AREA EXCEEDS 8 SQ.FT. ANGLE STIFFENERS REQUIRED AROUND CIRCUMFERENCE EVERY 4'-0.
3. FOR DUCT OVER 48"WIDE HANGERS SHALL TURN UNDER DUCT ATLEAST 2"AND SHALL BE FASTENED TO THE BOTTOM AS WELL AS TO THE SIDES OF THE DUCT.
4. FOR DUCTS WITH A CROSS SECTIONAL AREA OF 4 SQ.FT. OR LESS, HANGERS SHALL BE NO MORE THAN 8FT. A PART. FOR DUCTS WITH A CROSS SECTIONAL AREA OF MORE THAN 4 SQ.FT, BUT NOT OVER 8 SQ.FT. HANGERS SHALL BE NOT MORE THAN 6 FT. A PART. AND FOR DUCTS WITH A CROSS SECTIONAL AREA OF MORE THAN 8 SQ.FT. HANGERS SHALL BE NOT MORE THAN 4 FT. A PART. THE DISTANCES BETWEEN SHALL BE MEASURED LINEARLY ALONG THE DUCT.

DUCT SUPPORT DETAIL



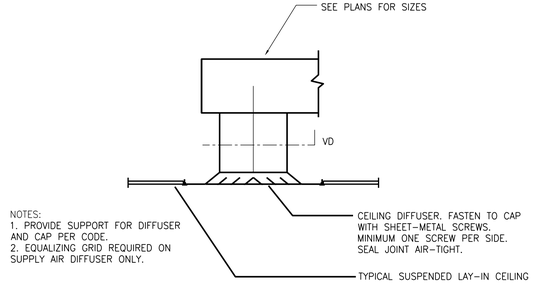
NOTES
1. NOT TO BE USED AS SUBSTITUTE FOR ELBOW

RECTANGULAR DUCT ANGULAR TAP WITH VOLUME DAMPER



NOTES:
1. SEE SPECIFICATIONS FOR MOTORIZED DAMPER CONTROL.
2. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ROOF CONSTRUCTION AND CURB DETAILS.
3. SEE ARCHITECTURAL DWGS. AND SPECIFICATIONS FOR CEILING AND GRILLE DETAILS.
4. FOR ROOF OPENING SIZES, SEE MECHANICAL PLANS. IF SIZES ARE NOT INDICATED, OPENING IS TO BE NO SMALLER THAN CURB INSIDED DIMENSIONS.
5. SEE MECHANICAL PLANS FOR DUCT, FAN AND GRILL SIZES
6. SEE MECHANICAL SPECIFICATIONS FOR DUCT SUPPORTS

DUCTED EXHAUST FAN ROOF MOUNTING DETAIL



NOTES:
1. PROVIDE SUPPORT FOR DIFFUSER AND CAP PER CODE.
2. EQUALIZING GRID REQUIRED ON SUPPLY AIR DIFFUSER ONLY.

TYPICAL LAY IN CEILING DIFFUSER INSTALLATION DETAIL

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NO.	REVISION/ISSUE	DATE
2.	ISSUE FOR BID	05/10/2017
1.	ISSUE FOR 90% REVIEW	05/01/2017

SEAL

PROJECT
INTERIOR RENOVATION
CAMPUS CENTER SOUTH

DATE:	05/01/2017
PROJECT NO:	DA 16169 / SU 022317
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE
MECHANICAL SCHEDULES DETAILS

SHEET 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 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. COORDINATION WITH THE EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES IS REQUIRED.

E. SUPPORT ALL DUCTWORK FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OR SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING. WHEN SUPPORTING FROM BUILDING STEEL 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 OWNER'S REPRESENTATIVE, ARCHITECT OR AS NOTED TO BE RELOCATED ON THE DRAWINGS SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.

N. 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.

O. 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.

P. 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.

Q. REMOVABLE ACCESS TILE AND/OR ACCESS DOOR ARE REQUIRED IN HUNG CEILINGS, SHAFTS AND WALLS FOR ALL VOLUME AND FIRE DAMPERS, AUTOMATIC 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.

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

S. 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.

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

U. 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.

V. 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.

W. 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 LOCAL GOVERNING AUTHORITY 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. 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 ENGINEER.

3. SHOP DRAWINGS

A. INDICATE ON EACH SUBMISSION: PROJECT NAME AND LOCATION, OWNER / ENGINEER, ITEM IDENTIFICATION AND APPROVAL STAMP OF PRIME CONTRACTOR.

B. SUBMISSIONS:

1) SUBMISSIONS 11 IN. X 17 IN. OR SMALLER: IF THE SUBMISSION IS A CATALOG CUT, THE CONTRACTOR SHALL SUBMIT AN ELECTRONIC COPY TO THE ENGINEER WITH A COPY TO THE OWNER . ALL CATALOG CUTS SHALL BE COMPLETE.

2) SUBMISSIONS LARGER THAN 11 IN. X 17 IN.: SUBMIT AN ELECTRONIC PRINT TO THE ENGINEER AND COPY TO THE OWNER.

C. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:

1) DUCTWORK LAYOUT AND SHEET METAL DESIGNS.

2) DUCT INSULATION

3) AIR OUTLETS AND INLETS

4) BALANCING DAMPERS

5) AIR BALANCE REPORT

6) AUTOMATIC CONTROLS AND DEVICES

7) OPERATING SEQUENCES.

3. AS-BUILTS

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

4. 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, METAL AND FLEXIBLE LATEST EDITION PRESSURE CLASSIFICATION 2 IN. W.G. SEAL ALL DUCTS TO PRESSURE CLASS RATING.

B. VOLUME DAMPERS: GALVANIZED STEEL, PER SMACNA DUCT CONSTRUCTION STANDARDS. PROVIDE BEARING AT ONE END OF DAMPER ROD AND QUADRANT, WITH LEVER AND LOCKSCREW 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 20 IN. X 14 IN. ON MAIN DUCTS, AND 12 IN. X 6 IN. ON BRANCH DUCTS, UNLESS OTHERWISE APPROVED, AT FIRE DAMPERS, AND AT ALL DUCT ACCESSORIES SUCH AS HUMIDIFIERS, DUCT SMOKE DETECTORS, AUTO DAMPERS, AND LOUVERS.

2) ALL ACCESS DOORS TO BE HINGED, WITH LATCH SIMILAR TO VENTLOCK NO. 100.

D. ACCESS DOORS: SIMILAR TO RUSKIN MODEL ADC12

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 SHOWN ON PLANS TO BE COORDINATED WITH OWNER REFLECTED CEILING PLANS.

4) SUITABLE FOR OPERATION 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. SQUARE DIFFUSERS: DIFFUSERS SHALL BE STEEL CONSTRUCTION PAINTED WHITE, SIMILAR TO ANEMOSTAT MODEL PDX SUITABLE FOR THE TYPE OF CEILING UNLESS OTHERWISE INDICATED. COLOR TO MATCH NEW CEILINGS AS INDICATED BY ARCHITECTURAL DRAWINGS.

C. REGISTERS AND GRILLES:

1) RETURN GRILLES: STEEL CONSTRUCTION WITH VOLUME DAMPER. SIMILAR TO ANEMOSTAT 3PD UNLESS OTHERWISE INDICATED. COLOR TO MATCH NEW CEILINGS AS INDICATED BY ARCHITECTURAL DRAWINGS

8. TESTING AND BALANCING

A. AIR BALANCING SHALL BE ACCOMPLISHED BY ADJUSTMENT OF FANS 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.

B. UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL REBALANCE ANY EXISTING PORTIONS OF AIR DISTRIBUTION SYSTEM AFFECTED BY THE RENOVATION AND ALSO BALANCE ALL NEW WORK.

C. THE CONTRACTOR SHALL PROVIDE ALL LABOR, PRESSURE GAUGES, FLOW METERS, SHEAVES, AND BELTS REQUIRED TO BALANCE SYSTEMS.

D. BALANCING REPORT SHALL BE PROVIDED ON AABC-TYPE FORMS.

E. AIR TERMINAL UNITS SHALL BE BALANCED TO WITHIN +5% OF THEIR DESIGN CAPACITIES. ALL OTHER AIR QUANTITIES SHALL BE BALANCED TO WITHIN +10% OF THE DESIGN QUANTITIES.

F. BALANCING AND TESTING SHALL BE PERFORMED AND SUPERVISED BY ONE OF THE FOLLOWING INDEPENDENT FIRMS SPECIALIZING IN TESTING AND BALANCING:

1) D. L. FLOWTECH

2) AIR PERFECT TESTING AND BALANCING

3) PRECISION TESTING AND BALANCING, INC.

4) MERENDINO ASSOCIATES TESTING AND BALANCING

G. THE PERFORMANCE AND CAPACITY OF ALL SYSTEMS AND EQUIPMENT TO BE DEMONSTRATED BY THE CONTRACTOR.

9. INSULATION - GENERAL REQUIREMENTS

A. ALL INSULATION MATERIALS, INCLUDING JACKETS, FACING, ADHESIVE, COATINGS, AND ACCESSORIES ARE TO BE FIRE HAZARD RATED AND LISTED BY UNDERWRITERS LABORATORIES, INC. USING STEINER TUNNEL TEST METHOD FOR FIRE HAZARD CLASSIFICATION OF BUILDING MATERIALS, STANDARD UL 723 (ASTM E-84), (ASA A2.5-1963). FLAME SPREAD: MAXIMUM 25. FUEL CONTRIBUTED AND SMOKE DEVELOPED: MAXIMUM 50. FLAME-PROOFING TREATMENTS SUBJECT TO DETERIORATION FROM MOISTURE OR HUMIDITY ARE NOT ACCEPTABLE.

B. DEFINITIONS:

1) EXPOSED: INDOOR DUCTS OR EQUIPMENT LOCATED IN MECHANICAL EQUIPMENT ROOMS AND IN AREAS WHICH WILL BE VISIBLE WITHOUT REMOVING CEILINGS OR OPENING ACCESS PANELS.

2) CONCEALED: INDOOR DUCTS OR EQUIPMENT WHICH IS NOT EXPOSED.

10. DUCTWORK INSULATION

A. INSULATE ALL DUCTWORK IN ACCORDANCE WITH INSULATION SCHEDULE EXCEPT AS OTHERWISE NOTED.

INSULATION SCHEDULE - DUCTWORK

SERVICE	LOCATION	THICKNESS	MATERIAL	FINISH
SUPPLY / RETURN	CONCEALED	1 1/2" R6	D-1	FSK
SUPPLY / RETURN	EXPOSED	1 1/2" R6	D-2	FSK

B. INSULATE ALL EXISTING DUCTWORK THAT IS DAMAGED OR WHEN INSULATION IS MISSING.
INSULATE WITH SAME MATERIAL AND THICKNESS.

C. NON-INSULATED DUCTWORK:

1) WHERE SOUND LINING IS OF MINIMUM THICKNESS SPECIFIED FOR INSULATION.

2) EXPOSED AIR CONDITIONING SUPPLY AIR DUCTWORK.

3) AIR CONDITIONING RETURN AIR DUCTWORK EXPOSED IN AIR CONDITIONED SPACES AND INSTALLED IN HUNG CEILINGS WHERE SPACE IMMEDIATELY ABOVE AND BELOW ARE BOTH AIR CONDITIONED.

D. MATERIAL:

1) TYPE D-1: MINIMUM 1-LB DENSITY FIBERGLASS BLANKET, MAXIMUM 0.28 K-FACTOR AT 75 DEG F MEAN TEMPERATURE WITH FACTORY-APPLIED FOIL-SKRIM-KRAFT FACING SIMILAR TO MANVILLE MICROLITE.

2) TYPE D-2: 3 LB. FIBERGLASS BOARD. THE MAXIMUM K FACTOR SHALL BE 0.23 AT 75 DEG F MEAN TEMPERATURE WITH A MINIMUM DENSITY OF 3 LB. THE INSULATION SHALL BE PROVIDED WITH A FACTORY-APPLIED ALL PURPOSE OR ALL SERVICE FACING. THE INSULATION SHALL BE EQUAL TO MANVILLE TYPE 814 SPIN-GLAS AP.

E. INSTALLATION:

1) FIBERGLASS BLANKET: 2 IN. LAP STRIPS AT ALL SEAMS. SECURE BOTTOM OF ALL DUCTS OVER 24 IN. WIDE WITH MIN. 2 ROWS OF WELD PINS 12 IN. ON CENTER. SECURE ALL SEAMS WITH FOIL VAPOR BARRIER TAPE AND VAPOR SEAL ADHESIVE.

2) FIBERGLASS BOARD: SEAL JOINTS AND BREAKS IN FACING WITH 3 IN. WIDE TAPE TO MATCH FACING AND ADHERE WITH VAPOR SEAL ADHESIVE. APPLY 5 IN. WIDE TAPE AT CORNERS, WELD PINS ON TOP, SIDES AND BOTTOM.

3) BEFORE APPLYING INSULATION ALL PRESSURE AND LEAK TESTS SHALL BE COMPLETED AND APPROVED.

4) ALL INSULATION SHALL BE BUTTED FIRMLY TOGETHER. PROVIDE 2 IN. LAMP STRIPS AT ALL SEAMS SECURED WITH ADHESIVE. USE VAPOR BARRIER TAPE AND VAPORSEAL ADHESIVE WHERE REQUIRED. STAPLES NOT PERMITTED.

11. PIPING

A. REHEAT COIL

1) MODIFY EXISTING PIPING TO ACCEPT NEW CONTROL VALVE. PIPING SHALL BE COPPER TYPE L ASTM B88 WITH 95 SOLDER JOINT WROUGHT COPPER FITTINGS ASME B16.18 OR B16.22. PROVIDE DIALECTIC FITTING WHEN JOINING TO DISSIMILAR MATERIAL.
2) INSULATE PIPING WHERE INSULATION HAS BEEN REMOVED AND MATCH EXISTING.

12. AUTOMATIC CONTROLS - GENERAL REQUIREMENTS

A. CONTRACTOR SHALL FURNISH AND INSTALL DIRECT DIGITAL CONTROLS (DDC) TO PROVIDE TEMPERATURE CONTROL AS SPECIFIED UNDER THE SEQUENCE OF OPERATION.

B. PROVIDE NEW MODULATING CONTROL VALVE FOR 17 EXISTING REHEAT COILS RH-2-1 THRU RH-3-10 SIZE TO MATCH EXISTING.

C. WORK SHALL INCLUDE ALL INDICATED CONTROL POINTS, GRAPHICS, WIRING, CONTROL EQUIPMENT, 120 V TO 24 VOLT TRANSFORMER, AND ACCESSORIES NECESSARY TO MAKE THIS SYSTEM COMPLETE. ALL WIRING SHALL BE 24 VOLT. ALL DIRECT DIGITAL CONTROL DEVICES SHALL BE FIELD INSTALLED BY THE CONTROLS CONTRACTOR UNDER THE SUPERVISE OF HVAC CONTRACTOR.

D. CONTROLS CONTRACTOR SHALL CONNECT THE NEW OFFICE HVAC SYSTEM TO THE CAMPUS ENERGY MANAGEMENT SYSTEM TO ALLOW REMOTE MONITORING AND CONTROL CAPABILITY FROM THE REMOTE HEAD: END LOCATED AT THE CENTRAL HEATING PLANT FACILITY. THE CONNECTION TO THE CAMPUS NETWORK SHALL OCCUR AT THE FUTURE SIEMENS PANEL LOCATED IN THE MECHANICAL ROOM.

E. ACCEPTABLE MANUFACTURERS:

1) SIEMENS.

F. SEQUENCE OF OPERATION:

F.A. REHEATS RH-2-8, 2-9, 2-10, 3-11:

F.A.A. ALL EXISTING REHEATS SHALL BE FURNISHED WITH A NEW ATC VALVE AND THERMOSTAT LOCATED WITHIN THE REHEAT ZONE BY OTHERS.

F.A.B. THE FOLLOWING POINTS SHALL BE MONITORED BY THE BMS:
F.A.B.1. ZONE TEMPERATURE
F.A.B.2. SUPPLY AIR TEMPERATURE
F.A.B.3. VALVE POSITION
F.A.B.4. OA TEMPERATURE
F.A.B.5. REHEAT ENABLE TEMPERATURE
F.A.B.6. REHEAT ENABLE DEADBAND

F.A.C. EACH NEW REHEAT SHALL BE FURNISHED WITH A DDC CONTROLLER CAPABLE OF RESETTING THE VALVE POSITION BASED ON THE ROOM TEMPERATURE CONDITIONS AS FOLLOWS:

ON A FALL IN ZONE TEMPERATURE BELOW THE HEATING SET-POINT (USER ADJUSTABLE AT THERMOSTAT) THE CONTROLLER SHALL RESET THE REHEAT VALVE TO 100% OPEN BASED ON A PID CONTROL LOOP.

ON A RISE IN ZONE TEMPERATURE ABOVE THE HEATING SET-POINT (USER ADJUSTABLE AT THERMOSTAT) THE CONTROLLER SHALL RESET THE REHEAT VALVE TO 0% OPEN BASED ON A PID CONTROL LOOP.

ON A FALL IN OUTDOOR TEMPERATURE BELOW THE REHEAT ENABLE SETPOINT (55'F ADJ) THE REHEATS SHALL BE ENABLED.

ON A RISE IN OUTDOOR TEMPERATURE ABOVE THE REHEAT ENABLE SETPOINT + REHEAT ENABLE DEADBAND (5'F ADJ) THE REHEATS SHALL BE DISABLED.

F.A.D. OFFICE 2010 IS SERVED BOTH BY NEW REHEAT RH-2-10 & RHC-5. THE ABOVE SEQUENCE OF OPERATION SHALL APPLY; HOWEVER THE REHEAT VALVE POSITION CONTROL SIGNAL SHALL BE PARALLELLED TO THE TWO REHEATS SUCH THAT THEY WILL SIMULTANEOUSLY MODULATE TO THE SAME POSITIONS.

F.B. EXHAUST FAN EF-6

F.B.A. THE FOLLOWING POINTS SHALL BE MONITORED BY THE BMS:
F.B.A.1. EXHAUST FAN CONFIRMATION

F.B.B. EXHAUST FAN EF-6 SHALL BE FURNISHED WITH DISCONNECT SWITCH AND OPERATE 24/7 . EXHAUST FAN OPERATION SHALL BE INTERLOCKED WITH THE OPERATION OF THE AUTOMATIC INTAKE DAMPER.

F.B.C. THE EXHAUST FAN SHALL BE PROVIDED WITH A CONFIRMATION SWITCH VERIS H600 (OR APPROVED EQUAL) CONNECTED TO AND MONITORED BY THE EXISTING ATC SYSTEM.

F.C. PERIMETER RADIATION ZONE

F.C.A. THE FOLLOWING POINTS SHALL BE MONITORED BY THE BMS:
F.C.A.1. OA TEMPERATURE
F.C.A.2. PERIMETER RADIATION VALVE POSITION
F.C.A.3. PERIMETER RADIATION OA MAX TEMPERATURE
F.C.A.4. PERIMETER RADIATION OA MIN TEMPERATURE

F.C.B. THE PERIMETER RADIATION VALVE SHALL BE INDEXED CLOSED

F.C.C. ON A FALL IN OA TEMPERATURE BELOW THE PERIMETER RADIATION OA MAX TEMPERATURE (55'F ADJ) THE PERIMETER RADIATION VALVE WILL BEGIN TO OPEN FROM 0%. THE VALVE SHALL CONTINUE TO OPEN UNTIL REACHING 100% OPEN WHEN THE OA TEMPERATURE FALLS BELOW THE PERIMETER RADIATION OA MIN TEMPERATURE (20'F ADJ).

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SEAL

PROJECT

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MECHANICAL SPECIIFCATIONS

SHEET NO.

M-300

SYMBOLS LIST

$_a	SINGLE POLE SWITCH RATED AT 20AMP, 120 VOLT a=CONTROLLING OUTLET OR FIXTURE "a"
GFI	DUPLEX RECEPTACLE RATED AT 20-AMPS 120 VOLTS. GFI= GROUND FAULT INTERRUPTOR AC= ABOVE COUNTER
	WALL DOUBLE DUPLEX EACH RECEPTACLE RATED AT 20-AMPS 120 VOLTS. N ONE 4"X4" BOX
A	SPECIAL PURPOSE RECEPTACLE TO BE REMOVED WALL MOUNTED LETTER INDICATES TYPE 'A' 208 VOLTS 30 AMPS 2 POLE 3 WIRE (NEMA 6-30R)
(1)	VOICE OUTLET BOX. PROVIDE (1) 1" EMT CONDUIT FROM OUTLET BOX TO NEAREST ACCESSIBLE CEILING. PROVIDE CAT6 CABLE FROM OUTLET BOX TO IT CLOSET ON 3RD FLOOR. NUMBER INDICATES TOTAL QUANTITY OF PORTS ON OUTLET BOX.
(1)	DATA OUTLET BOX. PROVIDE (1) 1" EMT CONDUIT FROM OUTLET BOX TO NEAREST ACCESSIBLE CEILING. PROVIDE CAT6 CABLE FROM OUTLET BOX TO IT CLOSET ON 3RD FLOOR. NUMBER INDICATES TOTAL QUANTITY OF PORTS ON OUTLET BOX.
(4)	DATA OUTLET BOX LOCATED ABOVE ACCESSIBLE CEILING. PROVIDE CAT6 CABLE FROM OUTLET BOX TO IT CLOSET ON 3RD FLOOR. NUMBER INDICATES TOTAL QUANTITY OF PORTS ON OUTLET BOX.
(3)	EXTRA DATA DROP. PROVIDE CAT6 CABLES (NUMBER INDICATED NEXT TO SYMBOL) AND COIL IN CEILING WITH MINIMUM 50" SLACK FOR FUTURE EXTENSION.
J	WALL MOUNTED JUNCTION BOX (J-BOX) WITH HOMERUN CIRCUIT AND FLEXIBLE CONNECTION TO EQUIPMENT. USE SEALTITE FOR OUTDOOR CONNECTIONS.
	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	ELECTRIC METER
M	MOTOR
WAP	WIRELESS ACCESS POINT
PP-KIT/21,23,25 (PANEL DESIGNATION / CKT NUMBER)	HOMERUN NOTATION
HD	HAND DRYER
OS	COMBINATION OCCUPANCY SENSOR/SWITCH: MANUFACTURER: LUTRON MODEL: MS-OPS6M2-DV-WH
VS	COMBINATION VACANCY SENSOR/SWITCH: MANUFACTURER: LUTRON MODEL: MS-VPS6M2-DV-WH
VS2	COMBINATION VACANCY SENSOR/SWITCH W/ 0-10V DIMMING CAPABILITY: MANUFACTURER: LUTRON MODEL: MS-Z101-V
VS3	COMBINATION VACANCY SENSOR/SWITCH W/ LINE VOLTAGE DIMMING CAPABILITY: MANUFACTURER: LUTRON MODEL: MSCL-VP153M
CS	COMPANION SWITCH FOR 3-WAY APPLICATIONS W/ COMBINATION VACANCY SENSOR/SWITCH: MANUFACTURER: LUTRON MODEL: MA-AS
OS a / OS a	CEILING/CORNER MOUNTED WIRELESS OCCUPANCY SENSOR MANUFACTURER: LUTRON MODEL: LRF2-OCR2B-P LOWERCASE LETTER INDICATES LIGHTS CONTROLLED
CR	CARD READER. PROVIDE (1) 1" CONDUIT FROM READER TO NEAREST ACCESSIBLE CEILING, AND PROVIDE CAT6 CABLE TERMINATING IN NEAREST CEILING MOUNTED DATA OUTLET.
EX	EXISTING TO REMAIN
EXR	EXISTING TO BE RELOCATED
RM	EXISTING TO BE REMOVED
N	NEW DEVICE

ELECTRICAL ABBREVIATIONS

@	"AT" OR "EACH AT"	GEN	GENERATOR
A	AMPERE	GFI	GROUND FAULT INTERUPTER
AC	ABOVE COUNTER	HC	HUNG CEILING
AF	AMPERE FRAME	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	HV	HIGH VOLTAGE
AL	ALUMINUM	HZ	HERTZ
ALM	ALARM	IC	INTERRUPTING CAPACITY
ASYM	ASYMMETRICAL	INST	INSTANTANEOUS
AT	AMPERE TRIP	JB	JUNCTION BOX
ATS	AUTOMATIC TRANSFER SWITCH	KV	KILOVOLT
AUTO	AUTOMATIC	KVA	KILOVOLT AMPERE
AWG	AMERICAN WIRE GAUGE	KW	KILOWATT
BKR	BREAKER	KWH	KILOWATT HOUR
BLDG	BUILDING	LTG	LIGHTING
C	CONDUIT	LV	LOW VOLTAGE
°C	DEGREE CELSIUS	MAX	MAXIMUM
CB	CIRCUIT BREAKER	MCB	MAIN CIRCUIT BREAKER
CKT	CIRCUIT	MCM	THOUSAND CIRCULAR MILS
CLG	CEILING	MECH	MECHANICAL
CLOS	CLOSET	MFS	MAIN FUSED SWITCH
COMM	COMMUNICATION	MIN	MINIMUM
CONT	CONTINUATION	MLO	MAIN LUGS ONLY
CT	CURRENT TRANSFORMER	N	NEUTRAL
CU	COPPER	NIC	NOT IN CONTRACT
CUH	CABINET UNIT HEATER	NTS	NOT TO SCALE
DB	DECIBEL	PB	PULLBOX
DEG	DEGREE	ø	PHASE
DISC	DISCONNECT	RECEPT	RECEPTACLE
DN	DOWN	REQ	REQUIRED
DP	DISTRIBUTION PANELBOARD	RM	ROOM
DWG	DRAWING	SCHED	SCHEDULE
E	EMERGENCY	SECT	SECTION
EA	EACH	SIG	SIGNAL
EC	ELECTRICAL CONTRACTOR	SP	SINGLE POLE
EL	ELEVATION	SPEC	SPECIFICATION
ELEC	ELECTRICAL	SW	SWITCH
ELEV	ELEVATOR	SYM	SYMMETRICAL
EM	EMERGENCY	SYS	SYSTEMS
EQPT	EQUIPMENT	TBD	TO BE DETERMINED
EXIST	EXISTING	TD	TIME DELAY
EXT	EXTERIOR	TEL	TELEPHONE
°F	DEGREE FAHRENHEIT	TEMP	TEMPERATURE
FA	FIRE ALARM	TS	TAMPER SWITCH
FAP	FIRE ALARM PANEL	TV	TELEVISION
FBO	FURNISHED BY OTHERS	TYP	TYPICAL
FDS	FUSED DISCONNECT SWITCH	UNF	UNFUSED
FIXT	FIXTURE	UON	UNLESS OTHERWISE NOTED
FL	FLOOR	V	VOLT OR VOLTAGE
FLEX	FLEXIBLE	VA	VOLT AMPERE
FT	FEET OR FOOT	W	WATT
G	GROUND	WP	WEATHERPROOF

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. SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) 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. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL.
3. RACEWAYS SHALL BE ALLOWED TO PASS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY SHALL BE ROUTED WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT PERPENDICULAR CROSSINGS WHERE RACEWAY SHALL BE A MINIMUM OF 1 INCH FROM PIPE COVER.
4. CUT CONDUIT ENDS SQUARE, REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.
5. HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS ARE NOT PERMITTED. DO NOT RUN CONDUIT IN PRECAST ROOF SLABS, IN 2 INCH SLAB OR IN TERRAZZO FLOOR FINISH.
6. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. PROVIDE FISH WIRE FOR ALL EMPTY CONDUITS.
7. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
8. 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.
9. 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.
10. COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.
11. PROVIDE PULLBOXES AS INDICATED, REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.
12. FOR EMPTY RACEWAY RUNS, PROVIDE PULL BOXES EVERY 100 FT AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.
13. JUNCTION AND PULL BOXES SHOULD NOT BE LOCATED EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT.
14. SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
15. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
16. CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT; MINIMUM 18 IN. IN LENGTH AND 50% SLACK. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.
17. DO NOT PULL THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F (0°C) PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.
18. SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. BOXES: PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.
19. HEIGHTS OF OUTLETS FROM FINISHED FLOOR TO CENTERLINE OF OUTLET:

RECEPTACLES:	
GENERALLY	1'-0"
OVER WORK BENCHES	3'-6"
WALL SWITCHES	4'-0"
WALL FIXTURES	7'-0"
HORN/STROBES	8'-0"

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

20. 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.
21. INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS: ONLY WITH WRITTEN CONSENT OF OWNER. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES. ALARM AND EMERGENCY SYSTEMS ARE NOT TO BE INTERRUPTED.
22. ALL LIGHT FIXTURES AND INSTRUMENTS THAT ARE REMOVED SHOULD BE CAREFULLY STORED FOR FUTURE USE. COORDINATE REMOVAL AND STORAGE OF ALL EQUIPMENT WITH BUILDING MANAGEMENT.
23. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
24. FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION.
25. POWER INTERRUPTIONS AND CORE DRILLING ONLY PERMITTED BETWEEN THE HOURS OF 6 PM AND 8 AM. AS APPROVED BY BUILDING MANAGER.
26. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL.
27. DO NOT SWITCH POWER TO BATTERY BALLAST FOR EMERGENCY FIXTURES SHOWN SWITCH CONTROLLED.
28. FOR LIGHT FIXTURES SPECIFICATIONS SEE ARCHITECTURAL SPECIFICATIONS & DRAWINGS.
29. COORDINATE ALL EXPOSED CONDUIT RUNS WITH ARCHITECT PRIOR TO EXPOSED CONDUIT INSTALLATION.
30. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE RATED NEMA-3R.
31. FOR EACH MODIFIED ELECTRICAL PANEL, THE CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY CARD TO REFLECT NEW CIRCUITING.
32. UPON COMPLETION OF THE WORK, A MARKED UP SET OF "AS-BUILT" DRAWINGS SHALL BE SUBMITTED TO THE BUILDING MANAGER AND TENANT.

LIGHT FIXTURE SCHEDULE

SYMBOL	FIXTURE DESIGNATION	MANUFACTURER/MODEL #	DESCRIPTION	LAMP TYPE	VOLTAGE	WATTAGE
A / EM	A	CREE NORMAL: CR22-32L-35K-10V EMERGENCY: CR22-32L-35K-10V-EB14	RECESSED, 2X2 ARCHITECTURAL LED TROFFER. 'EM' INDICATES FIXTURE TO BE USED AS EMERGENCY LIGHT IN SPECIFIED AREAS.	LED	120-277	35
B / EM	B	CREE NORMAL: S-DL-6-34L-30K-EB EMERGENCY: S-DL-6-34L-30K	RECESSED 6" ROUND DOWNLIGHT. 'EM' INDICATES FIXTURE TO BE USED AS EMERGENCY LIGHT IN SPECIFIED AREAS.	LED	120-277	34
C	C	CREE FP14-40L-35K-10V	1X4 FLAT PANEL TROFFER.	LED	120/277	40
D	D	TECH LIGHTING 700UCF-19-9-3-W-LED	UNILIME SLIMLINE UNDERCABINET LIGHT. PROVIDE W/ SPLICE BOX FOR HARDWIRED APPLICATIONS.	LED	120	10.5
	--	LITHONIA LQC-1-R-EL N	CEILING MOUNTED EXIT LIGHTING FIXT. SHADED AREA INDICATES SIGN FACE. ARROW INDICATES DIRECTIONAL ARROW ON SIGN FACE.	LED	120/277	0.6

ELECTRICAL DRAWING LIST

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SEAL

PROJECT
INTERIOR RENOVATION
CAMPUS CENTER SOUTH

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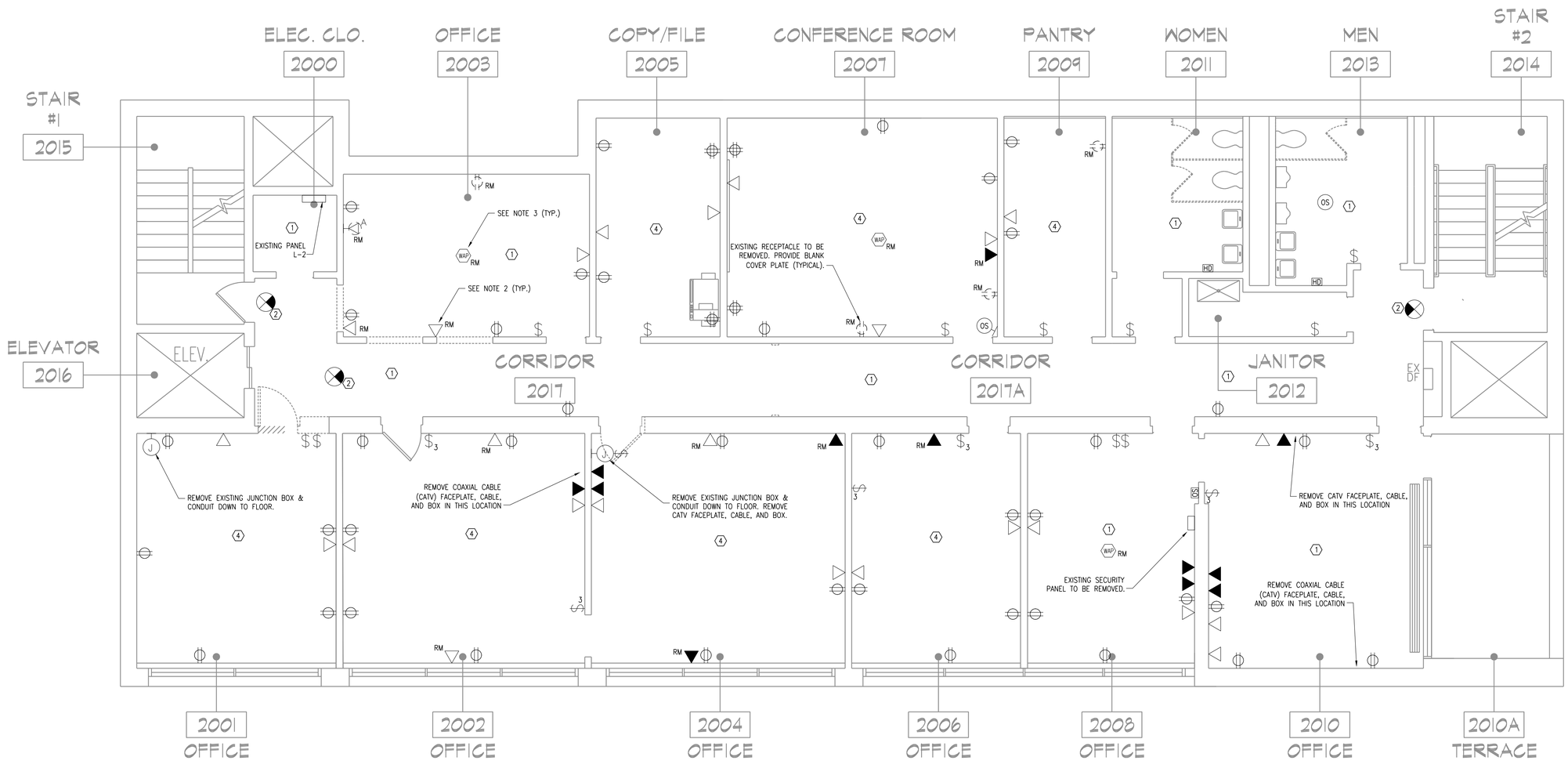
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE
ELECTRICAL SYMBOLS LIST, ABBREVIATIONS, GENERAL NOTES, LIGHTING SCHEDULE, & DRAWING LIST

SHEET NO.
E-001



1 2ND FLOOR ELECTRICAL DEMOLITION PLAN

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

ELECTRICAL KEYED NOTES:

1. REMOVE EXISTING LIGHTING AND ASSOCIATED CONTROLS WITHIN ROOM INDICATED. TERMINATE WIRING & CONDUIT FEEDING THESE FIXTURES BACK TO NEAREST JUNCTION BOX FOR FUTURE RE-USE.
2. REMOVE EXISTING EXIT SIGN. CONDUIT AND WIRING TO REMAIN FOR CONNECTION TO FUTURE EXIT SIGN.
3. NOT USED.
4. REMOVE EXISTING LIGHTING CONTROLS WITHIN ROOM INDICATED. EXISTING LIGHTING FIXTURES TO REMAIN. WIRING & CONDUIT TO REMAIN FOR FUTURE RE-USE.

ELECTRICAL GENERAL NOTES:

1. ALL EXISTING POWER AND TEL/DATA RECEPTACLES ARE SHOWN FOR CLARIFICATION ONLY. ALL EXISTING POWER AND TEL/DATA RECEPTACLES ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. FOR ALL TEL/DATA OUTLETS, ACCESS POINTS, AND OTHER IT EQUIPMENT TO BE REMOVED, CAT6 CABLE SHALL BE CAREFULLY PRESERVED AND NEATLY COILED IN CEILING FOR FUTURE USE. ALL DATA CABLES SHALL BE RE-USED FOR NEW DEVICES WHEREVER POSSIBLE.
3. ALL EXISTING WIRELESS ACCESS POINTS SHALL BE REMOVED, AND SHALL BE RETURNED TO CTS PRIOR TO DEMOLITION.

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DRAWING TITLE
2ND FLOOR ELECTRICAL DEMOLITION PLAN

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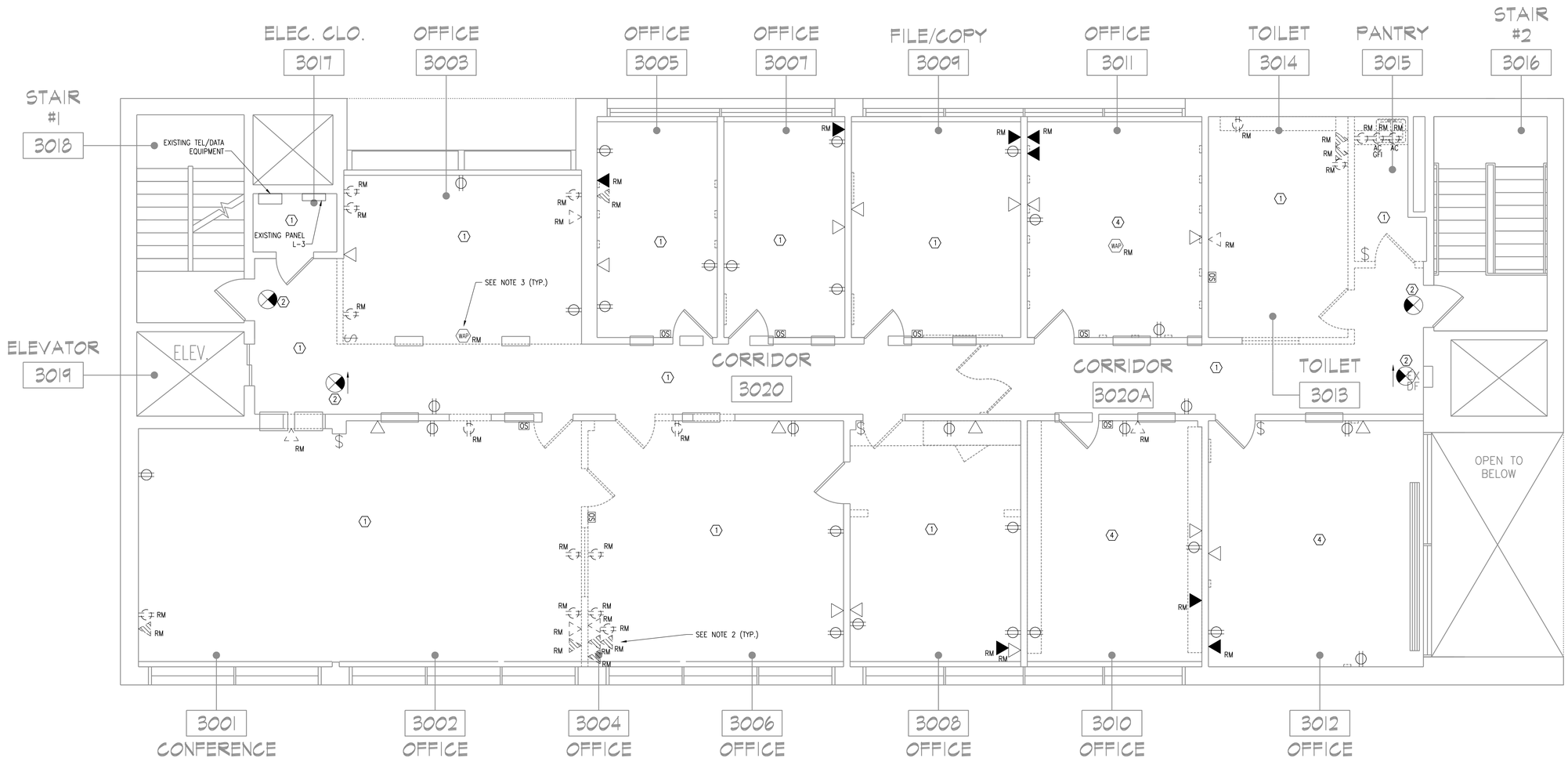
E-101



1 3RD FLOOR ELECTRICAL DEMOLITION PLAN

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

ELECTRICAL KEYED NOTES:

1. REMOVE EXISTING LIGHTING AND ASSOCIATED CONTROLS WITHIN ROOM INDICATED. TERMINATE WIRING & CONDUIT FEEDING THESE FIXTURES BACK TO NEAREST JUNCTION BOX FOR FUTURE RE-USE.
2. REMOVE EXISTING EXIT SIGN. CONDUIT AND WIRING TO REMAIN FOR CONNECTION TO FUTURE EXIT SIGN.
3. NOT USED.
4. REMOVE EXISTING LIGHTING CONTROL WITHIN ROOM INDICATED. EXISTING LIGHT FIXTURES TO REMAIN. CONDUIT & WIRING TO REMAIN FOR FUTURE RE-USE.

ELECTRICAL GENERAL NOTES:

1. ALL EXISTING POWER AND TEL/DATA RECEPTACLES ARE SHOWN FOR CLARIFICATION ONLY. ALL EXISTING POWER AND TEL/DATA RECEPTACLES ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. FOR ALL TEL/DATA OUTLETS, ACCESS POINTS, AND OTHER IT EQUIPMENT TO BE REMOVED, CAT6 CABLE SHALL BE CAREFULLY PRESERVED AND NEATLY COILED IN CEILING FOR FUTURE USE. ALL DATA CABLES SHALL BE RE-USED FOR NEW DEVICES WHEREVER POSSIBLE.
3. ALL EXISTING WIRELESS ACCESS POINTS SHALL BE REMOVED, AND SHALL BE RETURNED TO CTS PRIOR TO DEMOLITION.

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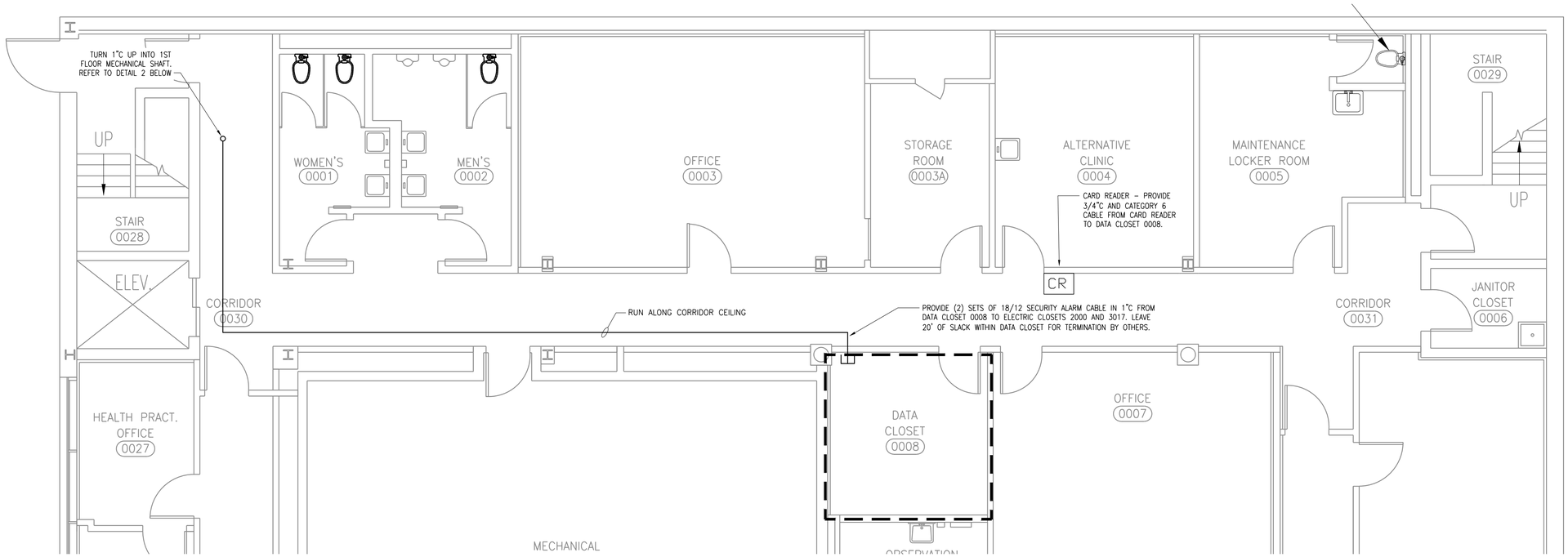
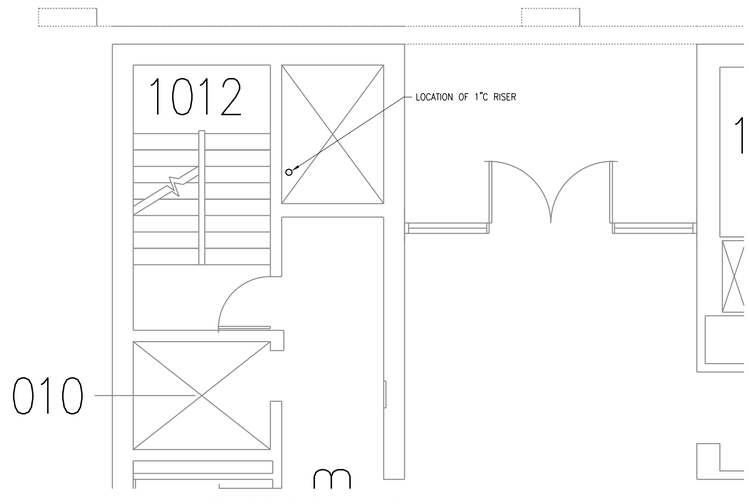
DRAWING TITLE
3RD FLOOR ELECTRICAL DEMOLITION PLAN

SHEET NO.
E-102



1 CELLAR IT ROUTING PLAN
SCALE: 1/4" = 1'-0"

NOTES
1. CONTRACTOR SHALL VERIFY CABLE ROUTING PLAN IN FIELD.



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

NOTES
1. CONTRACTOR SHALL VERIFY CABLE ROUTING PLAN IN FIELD.

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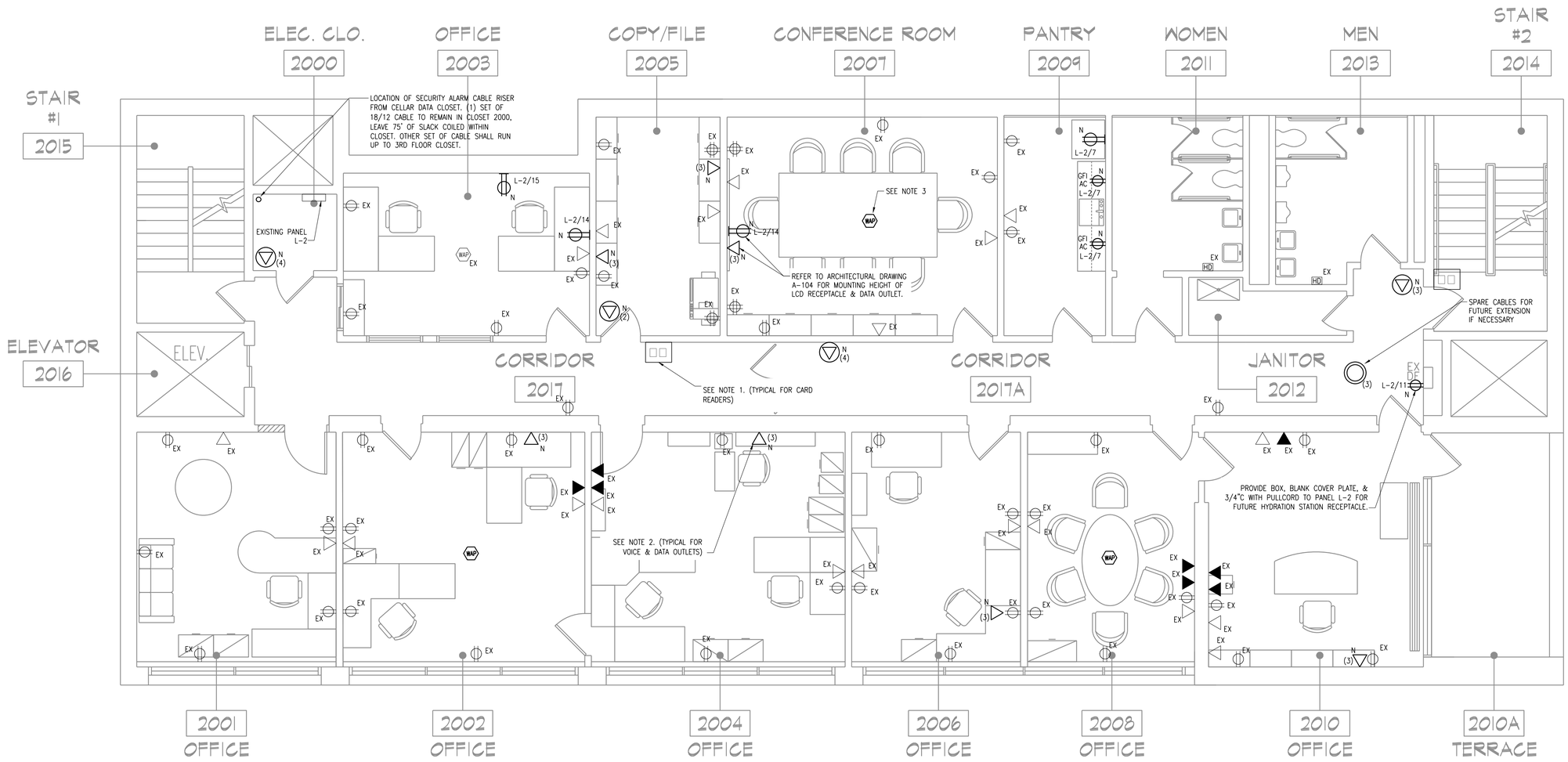
DRAWING TITLE
CELLAR AND 1ST FLOOR IT ROUTING PLAN

SHEET NO.
E-200



1 2ND FLOOR ELECTRICAL POWER PLAN

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

ELECTRICAL GENERAL NOTES:

1. PROVIDE (1) 1" CONDUIT FROM CARD READER TO NEAREST ACCESSIBLE CEILING. PROVIDE CAT6 CABLE FROM CARD READER TO NEAREST CEILING MOUNTED DATA RECEPTACLE
2. PROVIDE (1) 1" CONDUIT FROM EACH DATA OUTLET TO NEAREST ACCESSIBLE CEILING. PROVIDE CAT6 CABLE FROM EACH DATA OUTLET TO IT CLOSET LOCATED ON 3RD FLOOR VIA RISER CONNECTING 2ND FLOOR AND 3RD FLOOR IT CLOSETS. THE NUMBER OF CAT6 CABLES REQUIRED FROM EACH DATA OUTLET IS GOVERNED BY THE NUMBER OF DROPS INDICATED NEXT TO EACH DEVICE.
3. WIRELESS ACCESS POINTS SHALL BE RE-INSTALLED IN SAME LOCATIONS, RE-USING CAT6 CABLE DROPS, WHEREVER POSSIBLE. PROVIDE 30 FEET OF CABLE SLACK OR AS MUCH CABLE SLACK OR AS MUCH CABLE SLACK AS PERMANENT LINK DISTANCE LIMIT PERMITS, WHICHEVER IS GREATER. COIL SLACK NEATLY ABOVE WAP LOCATION. SEE APPENDIX FOR IT SPECIFICATIONS.
4. ALL NEW/EXISTING POWER & DATA OUTLETS: PROVIDE WITH FACEPLATES DURING CONSTRUCTION WORK TO PROTECT AGAINST DAMAGE. PRIOR TO PAINTING, TAPE OVER FACEPLATES TO AVOID PAINTING OVER.

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NO.	REVISION/ISSUE	DATE
2.	ISSUE FOR BID	05/10/2017
1.	ISSUE FOR 90% REVIEW	05/01/2017

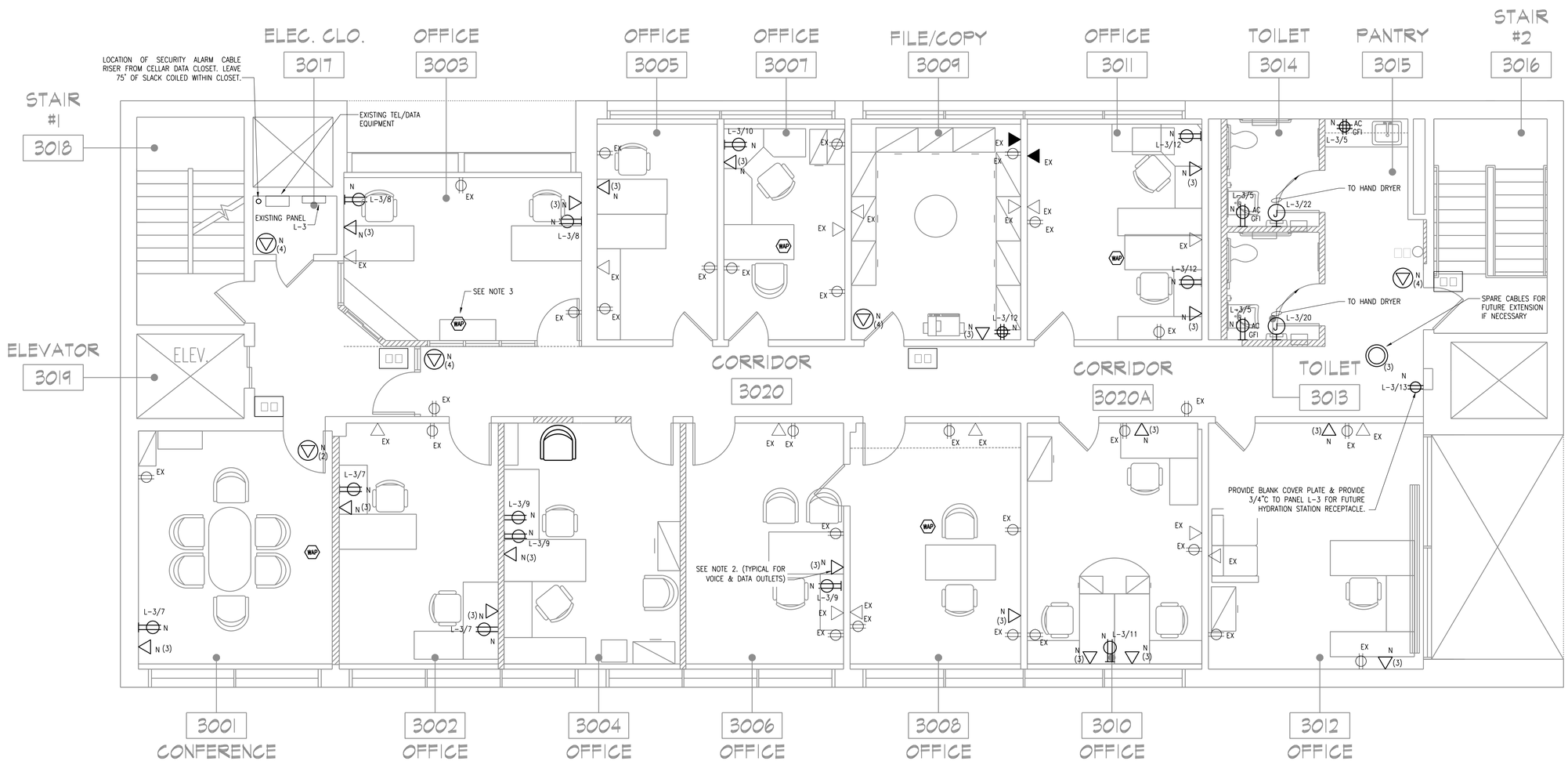
SEAL

PROJECT
INTERIOR RENOVATION
CAMPUS CENTER SOUTH

DATE:	05/01/2017
PROJECT NO:	DA 16169 / SU 022317
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE
2ND FLOOR ELECTRICAL POWER PLAN

SHEET NO.
E-201



1 3RD FLOOR ELECTRICAL POWER PLAN

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

ELECTRICAL GENERAL NOTES:

1. PROVIDE (1) 1" CONDUIT FROM CARD READER TO NEAREST ACCESSIBLE CEILING. PROVIDE CAT6 CABLE FROM CARD READER TO NEAREST CEILING MOUNTED DATA RECEPTACLE.
2. PROVIDE (1) 1" CONDUIT FROM EACH DATA OUTLET TO NEAREST ACCESSIBLE CEILING ON THIRD FLOOR. PROVIDE CAT6 CABLE FROM EACH DATA OUTLET TO IT CLOSET. THE NUMBER OF CAT6 CABLES REQUIRED FROM EACH DATA OUTLET IS GOVERNED BY THE NUMBER OF DROPS INDICATED NEXT TO EACH DEVICE.
3. WIRELESS ACCESS POINTS SHALL BE RE-INSTALLED IN SAME LOCATIONS, RE-USING CAT6 CABLE DROPS, WHEREVER POSSIBLE. PROVIDE 30 FEET OF CABLE SLACK OR AS MUCH CABLE SLACK OR AS MUCH CABLE SLACK AS PERMANENT LINK DISTANCE LIMIT PERMITS, WHICHEVER IS GREATER. COIL SLACK NEATLY ABOVE WAP LOCATION. SEE APPENDIX FOR IT SPECIFICATIONS.
4. ALL NEW/EXISTING POWER & DATA OUTLETS: PROVIDE WITH FACEPLATES DURING CONSTRUCTION WORK TO PROTECT AGAINST DAMAGE. PRIOR TO PAINTING, TAPE OVER FACEPLATES TO AVOID PAINTING OVER.

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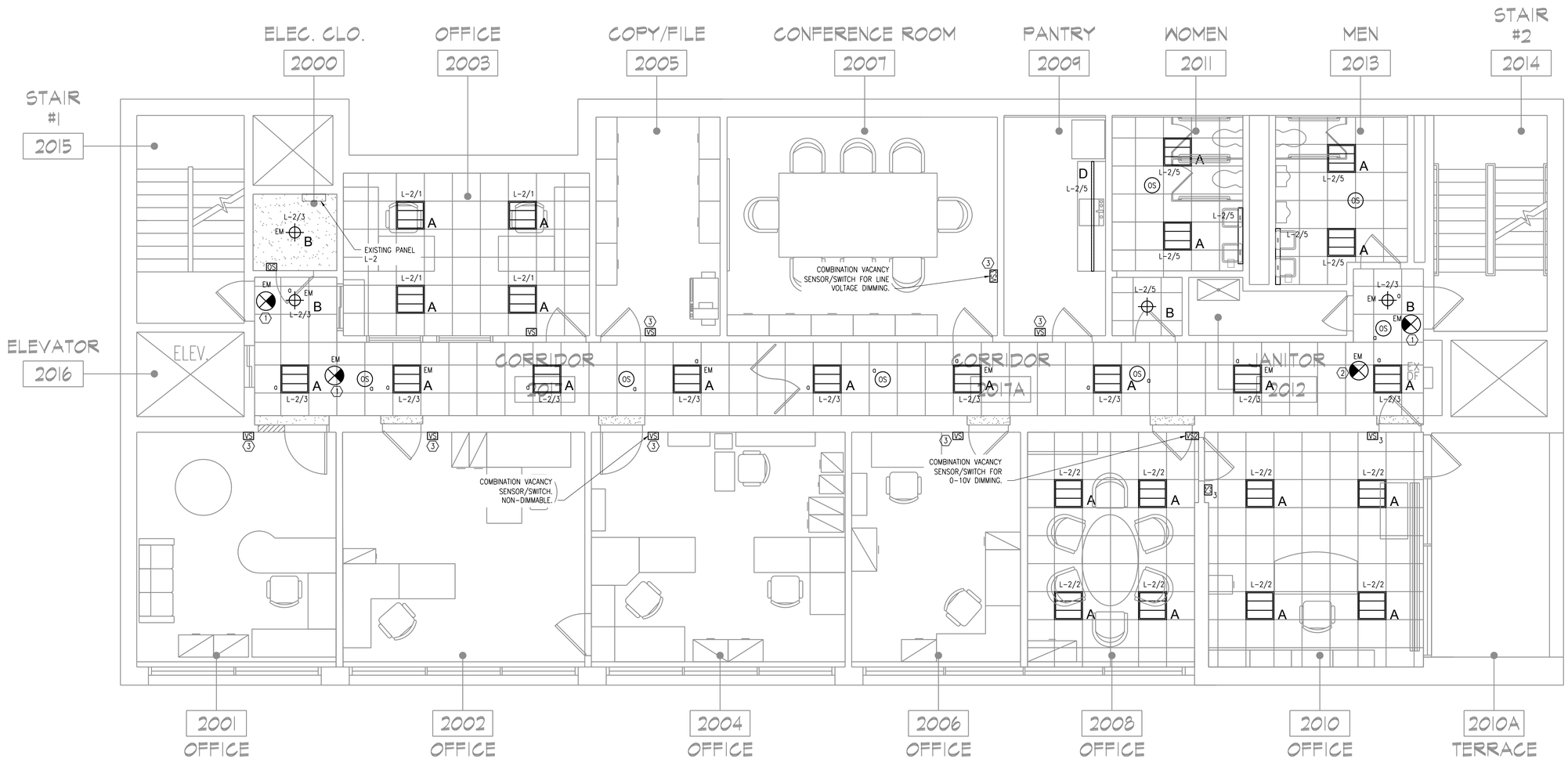
DRAWING TITLE

3RD FLOOR ELECTRICAL POWER PLAN

SHEET NO.

E-202



1 2ND FLOOR ELECTRICAL LIGHTING PLAN

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

ELECTRICAL KEYED NOTES:

1. PROVIDE NEW EXIT SIGN IN SAME LOCATION AS ORIGINAL FIXTURE AND EXTEND WIRING & CONDUIT TO NEW FIXTURE.
2. CONNECT NEW EXIT SIGN TO NEAREST ADJACENT EXIT SIGN CIRCUIT.
3. PROVIDE COMBINATION SENSOR/SWITCH AS INDICATED AND CONNECT TO EXISTING LIGHTING CIRCUIT.

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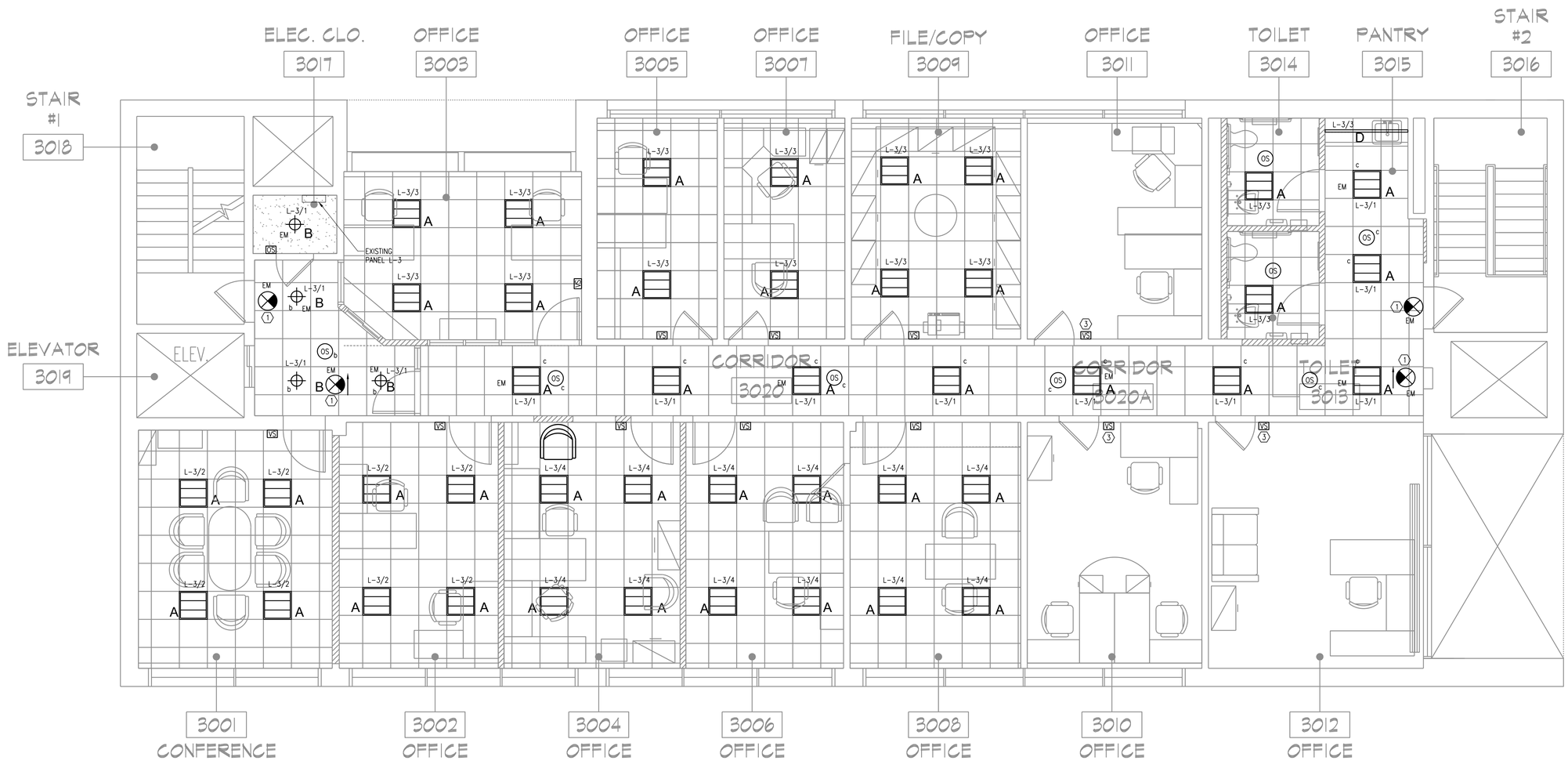
SCALE:	AS NOTED

DRAWING TITLE
2ND FLOOR ELECTRICAL LIGHTING PLAN

SHEET NO.
E-203



1 3RD FLOOR ELECTRICAL LIGHTING PLAN

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

ELECTRICAL KEYED NOTES:

1. CONNECT NEW LIGHTING TO CIRCUIT FEEDING EXISTING LIGHTING IN THIS ROOM.
2. PROVIDE NEW EXIT SIGN IN SAME LOCATION AS ORIGINAL FIXTURE AND EXTEND WIRING & CONDUIT TO NEW FIXTURE.
3. PROVIDE COMBINATION SENSOR/SWITCH AS INDICATED AND CONNECT TO EXISTING LIGHTING CIRCUIT.

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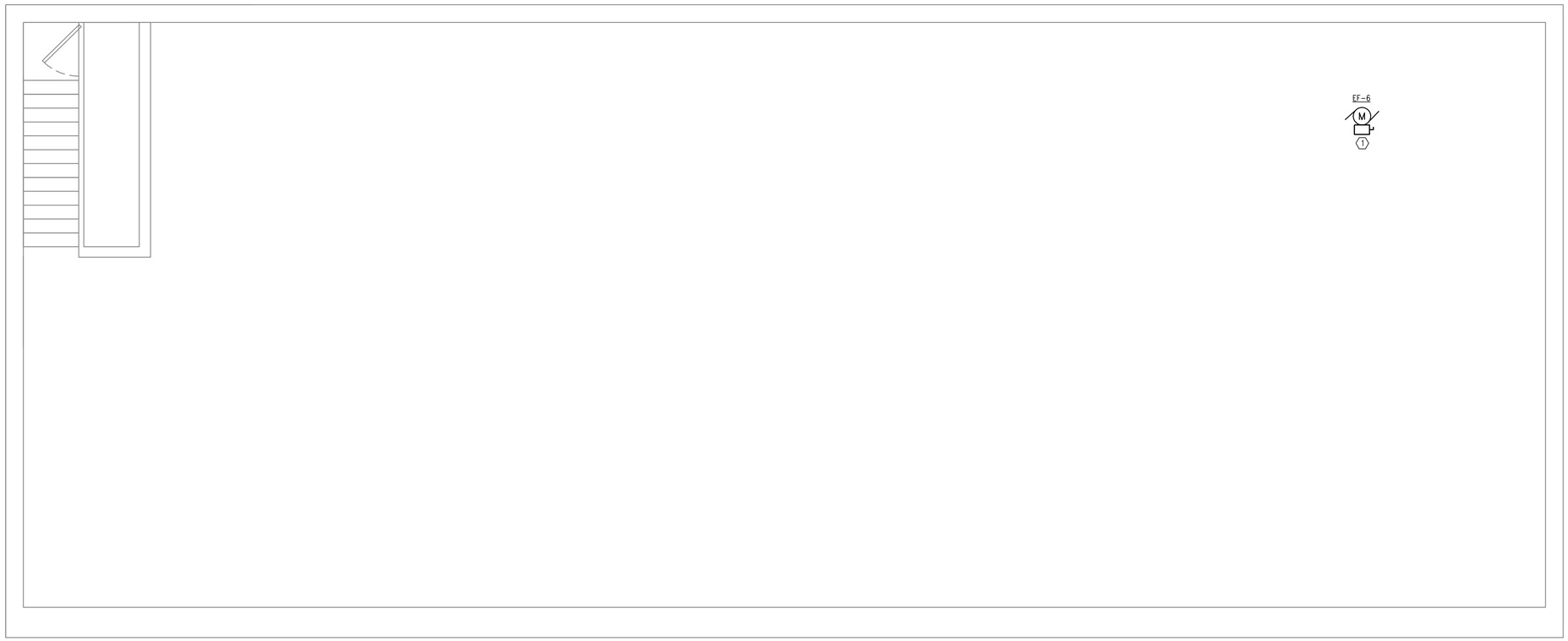
SCALE:	AS NOTED

DRAWING TITLE
3RD FLOOR ELECTRICAL LIGHTING PLAN

SHEET NO.
E-204



1 ROOF ELECTRICAL POWER PLAN

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

ELECTRICAL KEYED NOTES:

1. DISCONNECT EXISTING EXHAUST FAN AND RECONNECT EXISTING WIRING & CONDUIT TO NEW EXHAUST FAN.

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PROJECT

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CAMPUS CENTER SOUTH

DATE:	05/01/2017
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CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE

ROOF ELECTRICAL POWER PLAN

SHEET NO.

E-205

PANEL NO. L-2 SECTION _____ EXISTING PANEL ☐RECESSED ☒SURFACE MOUNTED ☐MAIN LUG ONLY ☒MAIN CB ☐FEED THRU LUG REV. DATE _____ REV. DATE _____ REV. DATE _____

VOLTS 120/208 PH 3 W 4 G 1

MAIN CB 100A BUS 100A 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 LIGHTS ROOMS 2003, 2005	0	0			0	EXISTING LIGHTS ROOMS 2004, 2006, 2008	20	2
3	20	EXISTING LIGHTS ROOM 2000, CORRIDOR 2017, 2017A	0		0		0	EXISTING LIGHTS ROOM 2002	20	4
5	20	EXISTING LIGHTS ROOMS 2007, 2009, 2011, 2012, 2013	0			0	0	EXISTING LIGHTS ROOM 2001	20	6
7	20	EXISTING LIGHTS ROOM 2010	0	0			0	EXISTING RECP. ROOMS 2001, 2002, 2004	20	8
9	20	EXISTING RECP. ROOMS 2002, 2004, 2006, 2008, 2010	0		0		0	EXISTING RECP. ROOMS 2006, 2008, 2010	20	10
11	20	EXISTING RECP. CORRIDOR 2017, 2017A	0			0	0	EXISTING CIRCUIT	20	12
13	20	EXISTING CIRCUIT	0	0			0	EXISTING RECP. ROOMS 2003, 2005, 2007	20	14
15	20	EXISTING RECP. ROOMS 2003, 2005, 2007	0		0		0	EXISTING CIRCUIT	20	16
17	20	EXISTING RECP. ROOMS 2007, 2009	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 RECP. ROOM 2001	20	26
27	20	EXISTING RECP. ROOMS 2004, 2006, 2008	0		0		0	EXISTING RECP. ROOM 2001	20	28
29	20	EXISTING RECP. ROOMS 2001, 2002	0			0	0	EXISTING CIRCUIT	20	30
31			0	0			0	EXISTING CIRCUIT	20	32
33	100	MAIN	0		0		0	EXISTING CIRCUIT	50	34
35			0			0	0			36
				0	0	0				

PANEL NO. L-3 SECTION _____ EXISTING PANEL ☐RECESSED ☒SURFACE MOUNTED ☐MAIN LUG ONLY ☒MAIN CB ☐FEED THRU LUG REV. DATE _____ REV. DATE _____ REV. DATE _____

VOLTS 120/208 PH 3 W 4 G 1

MAIN CB 100A BUS 100A 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 LIGHTS ROOM 3017, CORRIDOR 3020, 2020A	0	0			0	EXISTING LIGHTS ROOMS 3001, 3002	20	2
3	20	EXISTING LIGHTS ROOMS 3003, 3005, 3007	0		0		0	EXISTING LIGHTS ROOMS 3004, 3006, 3008	20	4
5	20	EXISTING LIGHTS ROOMS 3009, 3011, UNKNOWN, 3015	0			0	0	EXISTING LIGHTS ROOMS 3010, 3012	20	6
7	20	EXISTING RECP. ROOM 3001	0	0			0	EXISTING RECP. ROOM 3003	20	8
9	20	EXISTING RECP. ROOMS 3002, 3004, 3006, 3008	0		0		0	EXISTING RECP. ROOMS 3003, 3005, 3007	20	10
11	20	EXISTING RECP. ROOMS 3006, 3008, 3010, 3012	0			0	0	EXISTING RECP. ROOMS 3009, 3011, UNKNOWN,	20	12
13	20	EXISTING RECP. ROOMS 3002, 3004, 3006, 3008, 3010, 3012, CORRIDOR 3020, 3020A	0	0			0	EXISTING CIRCUIT	20	14
15	20	EXISTING RECP. ROOM 3002	0		0		0	EXISTING CIRCUIT	20	16
17	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	18
19			0	0			0	EXISTING GFI RECP. ROOM 3015	20	20
21	100	MAIN	0		0		0	EXISTING RECP. ROOM 3015	20	22
23			0			0	0	EXISTING SPACE		24
				0	0	0				

1 PANEL SCHEDULES – EXISTING CONDITIONS

SCALE: N/A

PANEL NO. L-2 SECTION _____ EXISTING PANEL ☐RECESSED ☒SURFACE MOUNTED ☐MAIN LUG ONLY ☒MAIN CB ☐FEED THRU LUG REV. DATE _____ REV. DATE _____ REV. DATE _____

VOLTS 120/208 PH 3 W 4 G 1

MAIN CB 100A BUS 100A 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	NEW LIGHTS ROOM 2003 & EXISTING LIGHTS ROOM 2005	0	0			0	EXISTING LIGHTS ROOMS 2004, 2006 & NEW LIGHTS ROOM 2008, 2010	20	2
3	20	NEW LIGHTS ROOM 2000, CORRIDOR 2017, 2017A	0		0		0	EXISTING LIGHTS ROOM 2002	20	4
5	20	EXISTING LIGHTS ROOMS 2007, 2012 & NEW LIGHTS ROOMS 2009, 2011, 2013	0			0	0	EXISTING LIGHTS ROOM 2001	20	6
7	20	NEW GFI & FRIDGE RECP. ROOM 2009	0	0			0	EXISTING RECP. ROOMS 2001, 2002, 2004	20	8
9	20	EXISTING RECP. ROOMS 2002, 2004, 2006, 2008, 2010	0		0		0	EXISTING RECP. ROOMS 2006, 2008, 2010	20	10
11	20	EXISTING RECP. CORRIDOR 2017, 2017A, & HYDRATION STATION	0			0	0	EXISTING CIRCUIT	20	12
13	20	EXISTING CIRCUIT	0	0			0	EXISTING RECP. ROOMS 2003, 2005, 2007 & NEW RECP. ROOMS 2003, 2007	20	14
15	20	EXISTING RECP. ROOMS 2003, 2005, 2007 & NEW RECP. ROOM 2003	0		0		0	EXISTING CIRCUIT	20	16
17	20	EXISTING RECP. ROOMS 2007, 2009 & NEW GFI & FRIDGE RECP. ROOM 2009	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 RECP. ROOM 2001	20	26
27	20	EXISTING RECP. ROOMS 2004, 2006, 2008	0		0		0	EXISTING RECP. ROOM 2001	20	28
29	20	EXISTING RECP. ROOMS 2001, 2002	0			0	0	EXISTING CIRCUIT	20	30
31			0	0			0	EXISTING CIRCUIT	20	32
33	100	MAIN	0		0		0	EXISTING CIRCUIT	50	34
35			0			0	0			36
				0	0	0				

PANEL NO. L-3 SECTION _____ EXISTING PANEL ☐RECESSED ☒SURFACE MOUNTED ☐MAIN LUG ONLY ☒MAIN CB ☐FEED THRU LUG REV. DATE _____ REV. DATE _____ REV. DATE _____

VOLTS 120/208 PH 3 W 4 G 1

MAIN CB 100A BUS 100A 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	NEW LIGHTS ROOM 3017, CORRIDOR 3020, 3020A	0	0			0	NEW LIGHTS ROOMS 3001, 3002	20	2
3	20	NEW LIGHTS ROOMS 3003, 3005, 3007, 3009, 3013, 3014, 3015 & EXISTING LIGHTS ROOM 3011	0		0		0	NEW LIGHTS ROOMS 3004, 3006, 3008	20	4
5	20	NEW GFI RECP. ROOMS 3013, 3014, 3015	0			0	0	EXISTING LIGHTS ROOMS 3010, 3012	20	6
7	20	EXISTING RECP. ROOM 3001 & NEW RECP. ROOMS 3001, 3002	0	0			0	EXISTING & NEW RECP. ROOM 3003	20	8
9	20	EXISTING RECP. ROOMS 3002, 3004, 3006, 3008 & NEW RECP. ROOMS 3004, 3006	0		0		0	EXISTING RECP. ROOMS 3003, 3005, 3007 & NEW RECP. ROOM 3007	20	10
11	20	EXISTING RECP. ROOMS 3006, 3008, 3010, 3012 & NEW RECP. 3010	0			0	0	EXISTING RECP. ROOMS 3009, 3011, UNKNOWN, & NEW RECP. ROOMS 3009, 3011	20	12
13	20	EXISTING RECP. ROOMS 3002, 3004, 3006, 3008, 3010, 3012, CORRIDOR 3020, 3020A, & HYDRATION STATION	0	0			0	EXISTING CIRCUIT	20	14
15	20	EXISTING RECP. ROOM 3002	0		0		0	EXISTING CIRCUIT	20	16
17	20	EXISTING CIRCUIT	0			0	0	EXISTING CIRCUIT	20	18
19			0	0			0	HAND DRYER ROOM 3013	20	20
21	100	MAIN	0		0		0	HAND DRYER ROOM 3014	20	22
23			0			0	0	EXISTING SPACE		24
				0	0	0				

2 PANEL SCHEDULES – FINAL CONDITIONS

SCALE: N/A

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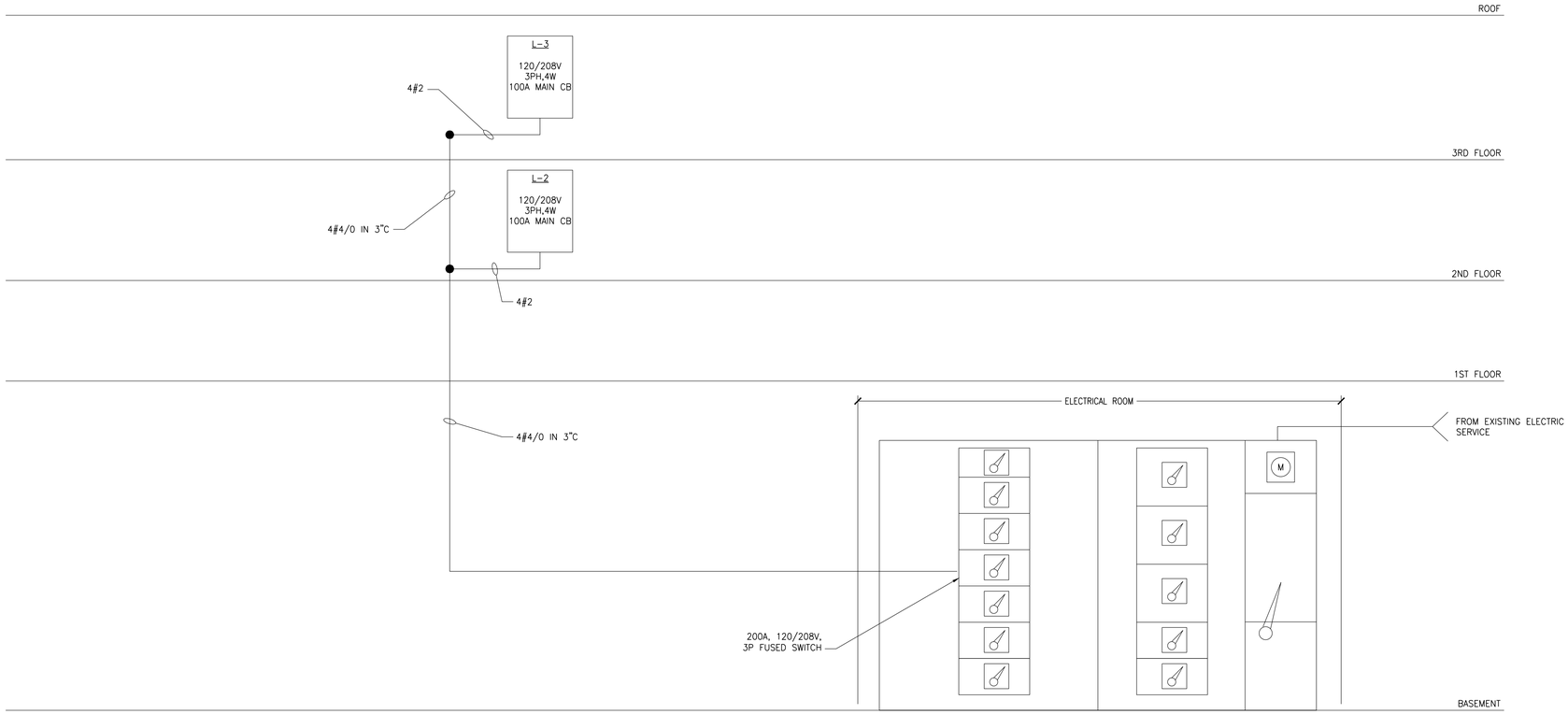
DRAWING TITLE

ELECTRICAL PANEL SCHEDULES

SHEET NO.

E-300



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DRAWING TITLE

ELECTRICAL RISER DIAGRAM

SHEET NO.

E-400

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. 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 AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.

D. 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.

E. 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.

F. 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.

G. 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.

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

I. 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.

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

K. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THE BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF CONDUIT AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AS REQUIRED.

L. 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.

M. 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.

N. 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.

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

P. 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.

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

R. 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) SUBMISSIONS 11 IN. X 17 IN. OR SMALLER: IF THE SUBMISSION IS A CATALOG CUT, THEN THE CONTRACTOR SHALL SUBMIT ONE ORIGINAL AND TWO COPIES. OTHERWISE, HE SHALL SUBMIT THREE COPIES. THE ARCHITECT WILL FORWARD THE ORIGINAL AND ONE COPY (TWO COPIES WHEN NO ORIGINAL IS RECEIVED) TO THE ENGINEER. ALL CATALOG CUTS SHALL BE COMPLETE.
2) SUBMISSIONS LARGER THAN 11 IN. X 17 IN.: SUBMIT THREE PRINTS TO THE ARCHITECT. THE ARCHITECT WILL FORWARD TWO PRINTS TO THE ENGINEER.

D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:

1) SWITCHES
2) CIRCUIT BREAKERS
3) RACEWAYS
4) WIRE AND CABLE
5) WALL SWITCHES
6) INSERTION RECEPTACLES
7) MOMENTARY CONTACT SWITCHES
8) SURFACE METAL RACEWAY
9) 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: 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 AND TELEPHONES: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) MOVING OF EQUIPMENT: WHERE NECESSARY, SHIP IN CARTED SECTIONS OF SIZE TO PERMIT PASSING THROUGH AVAILABLE SPACES.
2) 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) NAMEPLATES: PROVIDE BLACK LAMICOID SHEET WITH 3/4 IN. WHITE LETTERING, FASTENED WITH EPOXY CEMENT FOR EACH DISCONNECT SWITCH, CIRCUIT BREAKER, PANEL, CABINET, TRANSFORMER, ENCLOSURE, MOTOR CONTROLLER AND THE LIKE. NAMEPLATES SHALL DESCRIBE THE NAME AND NUMBER OF EACH COMPONENT.
2) CABLE TAGS: TAG EACH CONDUCTOR PASSING THROUGH SPLICE OR PULLBOX WITH A WHITE LINEN TAG, INDICATING POINT OF ORIGIN AND TERMINATION OF THE CIRCUIT.
3) 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. GROUPED LINES AND SERVICES: TRAPEZE HANGERS OF BOLTED ANGLES OR CHANNELS.
   d. 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 PANEL AND 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. LOW-VOLTAGE DISTRIBUTION EQUIPMENT:

A. PROVIDE COMPLETE EQUIPMENT INCLUDING: SWITCHES AND CIRCUIT BREAKERS.

B. ALL EQUIPMENT SHALL CONFORM TO NEMA, ANSI AND IEEE STANDARDS.

C. DISCONNECT SWITCHES SHALL BE NONFUSED AS NOTED. VOLTAGE SHALL BE AS REQUIRED. SWITCHES SHALL BE HEAVY DUTY, EXCEPT AS NOTED, AND HORSEPOWER RATED FOR MOTOR LOADS. TOGGLE TYPE SWITCHES SHALL BE NONFUSED, LOAD BREAK, HAVING MAXIMUM RATINGS OF 30 AMP AT 240 VOLTS. TWO-POLE SWITCHES SHALL BE SIMILAR TO HART AND HEGEMAN NO. 6808F. THREE-POLE SWITCHES SHALL BE SIMILAR TO HART AND HEGEMAN NO. 7810F.

KNIFE-BLADE TYPE SWITCHES SHALL BE LOAD BREAK, QUICK-MAKE-QUICK-BREAK, UL CLASS R UP TO 600 AMP. SWITCHES SHALL BE SIMILAR TO GENERAL ELECTRIC QMR. ALL SWITCH ENCLOSURES SHALL BE DEAD FRONT, NEMA TYPE 1, EXCEPT AS NOTED.

D. CIRCUIT BREAKERS: MOLDED CASE BREAKERS SHALL BE THERMAL-MAGNETIC, QUICK-MAKE-QUICK-BREAK, BOLT-ON TYPE, MANUALLY OPERATED WITH INSULATED TRIP-FREE HANDLE. MULTI-POLE TYPE BREAKERS SHALL CONTAIN INTERNAL TRIP BAR. TERMINALS SHALL BE SUITABLE FOR COPPER OR ALUMINUM CABLE. FURNISH AUXILIARY DEVICES WHERE REQUIRED FOR SHUNT-TRIPPING, OPEN AND CLOSE MOTOR OPERATOR AND ALARM INDICATION. ENCLOSURES SHALL BE DEAD FRONT, NEMA TYPE 1, EXCEPT AS NOTED. FRAMES, IC AND INTERCHANGEABLE TRIPS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:

1) 120 VOLTS, 100-AMP FRAME: 10,000 AMPS, 1 POLE.
2) 240 VOLTS, 100-AMP FRAME: 18,000 AMPS, 2 AND 3 POLES.

E. BALANCE THE LOAD OVER PHASES WHEN NEW CIRCUITS ARE ADDED TO EXISTING PANELS. UPDATE DIRECTORIES ON EXISTING PANELBOARDS WHERE CIRCUITING IS CHANGED.

F. TESTS: OPEN AND CLOSE LOAD BREAK SWITCHING DEVICES UNDER LOAD.

7. 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.
   d. WIREWAYS: WIRE SHALL BE AS NOTED, MINIMUM NO. 16 GAUGE STEEL WITH GROUND CONTINUITY. FINISH SHALL BE BAKED ENAMEL. COVERS SHALL BE SCREW-ON.
   e. SURFACE METAL RACEWAY: SIZE AS NOTED. BASE 0.04 IN., COVER 0.25 IN. MATERIAL SHALL BE STEEL. FINISH SHALL BE BAKED ENAMEL. COVERS SHALL BE SCREW-ON.
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. 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. BOXES IN WALL FOR RECEPTACLES AND SWITCHES SHALL BE 1-1/2 IN. DEEP. FURNISH WITH RAISED COVERS AND FIXTURE STUDS WHERE REQUIRED. WITHOUT FIXTURE OR DEVICE: FURNISH BLANK COVER. OFFSET BACK-TO-BACK OUTLETS WITH MINIMUM 6 IN. SEPARATION.
   b. 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 EMERGENCY AND NORMAL WIRING. POWER: DUPLEX RECEPTACLE OR OTHER AS NOTED. INCREASE SIZE TO SUIT AS NECESSARY.

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.

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.

RIGID STEEL CONDUIT SHALL BE PERMITTED FOR FEEDERS AND BRANCH CIRCUITS. PAINT MALE THREADS OF FIELD-THREADED CONDUIT WITH GRAPHITE-BASE PIPE COMPOUND AND BUTT CONDUIT ENDS. TOUCH UP MARRED SURFACES AND FIELD-CUT THREADS, CRC-COLD GALVANIZED.

EMT SHALL BE PERMITTED FOR BRANCH CIRCUITS ONLY, IN DRY LOCATIONS, DRY WALLS, HUNG CEILINGS, HOLLOW BLOCK WALLS AND FURRED SPACES.

FLEXIBLE STEEL CONDUIT SHALL BE UTILIZED FOR SHORT CONNECTIONS WHERE RIGID CONDUIT IS IMPRACTICAL. FROM OUTLET BOX TO RECESSED LIGHTING FIXTURE: PROVIDE MINIMUM 4 FT AND MAXIMUM 6 FT LENGTHS. FOR FINAL CONNECTION TO MOTOR TERMINAL BOX AND OTHER VIBRATING EQUIPMENT: PROVIDE WITH POLYVINYL SHEATHING AND GROUND CONDUCTOR. MINIMUM LENGTH: 18 IN. WITH SLACK. CONNECT GROUND CONDUCTOR TO ENCLOSURE OR RACEWAY AT EACH END.

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 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.

E. PANEL, 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.

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

G. 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.

8. 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.

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) 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 DEG F. THERMOPLASTIC WIRES SHALL NOT BE INSTALLED IN COMPUTER AREA RAISED FLOORS.

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. LOCAL WALL SWITCHES SHALL BE SPECIFICATION GRADE, TOGGLE, QUIET TYPE, RATED 20 AMP, 120/277 VOLT, AC. SIMILAR TO HUBBELL NOS. 1221 (SINGLE POLE), 1222 (DOUBLE POLE), 1223 (3-WAY) AND 1224 (4-WAY).

C. 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) GROUND FAULT INTERRUPTER RECEPTACLES:

   a. FEED-THRU TYPE. SIMILAR TO HUBBELL NOS. GF5362 (20 AMP) AND GF5262 (15 AMP).

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. LIGHTING FIXTURES:

A. PROVIDE FIXTURES ("LUMINARIES"), COMPONENTS AND LAMPS. FIXTURES SHALL BE COMPLETELY FACTORY ASSEMBLED, WIRED AND EQUIPPED WITH ALL NECESSARY SOCKETS, BALLASTS, SUPPORTING HARDWARE AND ACCESSORIES. REFER TO DRAWINGS FOR INDIVIDUAL FIXTURE DESCRIPTIONS.

B. FIXTURE CATALOG NUMBERS USED TO ILLUSTRATE EQUIPMENT TYPE DO NOT NECESSARILY DENOTE REQUIRED MOUNTING EQUIPMENT OR ACCESSORIES. PROVIDE ACCESSORIES TO SUIT.

11. 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.

13. GROUNDING

A. GROUND CONNECTORS SHALL BE TIN-PLATED ALUMINUM ALLOY, UL APPROVED AND STAMPED FOR USE WITH EITHER ALUMINUM OR COPPER CONDUCTORS.

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

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

D. ALL GROUND WIRES AND BONDING JUMPERS SHALL BE STRANDED COPPER INSTALLED IN CONDUIT. ALL GROUND WIRES SHALL BE WITHOUT JOINTS AND SPLICES OVER ITS ENTIRE LENGTH.

E. MECHANICAL EQUIPMENT SHALL BE BONDED TO THE BUILDING EQUIPMENT GROUNDING SYSTEM, INCLUDING FANS, PUMPS, ETC.

F. PVC CONDUITS AND PORTIONS OF THE METALLIC PIPING AND DUCT SYSTEMS WHICH ARE ISOLATED BY FLEXIBLE CONNECTIONS, INSULATED COUPLINGS, METERS, ETC. SHALL BE BONDED TO EQUIPMENT GROUND WITH A FLEXIBLE BONDING JUMPER, OR SEPARATE GROUNDING CONDUCTOR.

G. PROVIDE GROUNDING TYPE BUSHINGS FOR CONDUIT TERMINATED THROUGH MULTIPLE CONCENTRIC KNOCKOUTS NOT FULLY KNOCKED OUT, ON INSIDE OF PANELBOARDS AND LOAD CENTERS, GROUND BUSHING WITH #12 BARE COPPER TO PANELBOARD GROUND BUS.

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1.	ISSUE FOR 90% REVIEW	05/01/2017

SEAL

PROJECT
INTERIOR RENOVATION
CAMPUS CENTER SOUTH

DATE:	05/01/2017
PROJECT NO:	DA 16169 / SU 022317
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE
ELECTRICAL SPECIFICATIONS

SHEET NO.
E-500

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	GPM	GALLONS PER MINUTE
BLDG	BUILDING	HW	HOT WATER
BOP	BOTTOM OF PIPE	IN.	INCH
CLG	CEILING	LAV	LAVATORY
CO	CLEAN OUT	MAX	MAXIMUM
CODP	CLEAN OUT DECK PLATE	MIN	MINIMUM
CONN.	CONNECT	N.I.C.	NOT IN CONTRACT
CONT.	CONTINUED/CONTINUATION	NTS	NOT TO SCALE
CV	CHECK VALVE	ODR	OVER DRAIN
CW	COLD WATER	PO	JANITOR'S SINK
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH (GAUGE)
DIS	DISCHARGE	REC.	RECEPTOR
DN	DOWN (PENETRATES FLOOR SLAB)	SAN	SANITARY
DR	DRAIN	SC	PLUGGED OUTLET
DWG	DRAWING	SQ. FT	SQUARE FOOT
EL	ELEVATION	TYP	TYPICAL
EX	EXISTING	UON	UNLESS OTHERWISE NOTED
FD	FLOOR DRAIN	UP	UP (PENETRATES FLOOR SLAB)
FL	FLOOR	V	VENT
FT	FEET	VIF	VERIFY IN FIELD
FU	FIXTURE UNIT	W	WASTE
GAL	GALLONS	WC	WATER CLOSET

(NOT ALL SYMBOLS & ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT)

PLUMBING SYMBOLS & LEGEND

- BOTTOM PIPE CONNECTION
- CLEAN OUT/PLUGGED OUTLET
- CLEAN OUT DECK PLATE
- ELBOW TURNED DOWN
- ELBOW TURNED UP/CONNECT TO VERTICAL LINE
- FLOOR DRAIN
- OR "P" TRAP
- RUNNING TRAP
- TOP PIPE CONNECTION
- BALL VALVE
- CHECK VALVE
- GATE/GLOBE VALVE
- DISCONNECT FROM EXISTING
- CONNECT TO EXISTING
- EXISTING PIPING
- EXISTING PIPING TO BE REMOVED
- SLEEVE
- WATERPROOF SLEEVE
- SLOPED CHANGE IN PIPE ELEVATION
- DOMESTIC COLD WATER PIPING
- DOMESTIC HOT WATER PIPING
- DOMESTIC HOT WATER CIRCULATION PIPING
- PIPING IN CEILING OF FLOOR BELOW/BURIED PIPING
- SANITARY PIPING
- VENT PIPING (SANITARY)
- INSULATED AND HEAT TRACED PIPING
- SHOCK ABSORBER
- VACUUM BREAKER

PLUMBING DRAWING LIST

NYS BUILDING DEPARTMENT PLUMBING NOTES

THE PLUMBING SYSTEMS (SANITARY, WASTE, VENT, AND WATER DISTRIBUTION) AND ALL ASSOCIATED EQUIPMENT WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE 2015 NEW YORK STATE PLUMBING CODE. COMPLIANCE WITH THE FULL PROVISIONS OF ALL NEW YORK STATE BUILDING AND PLUMBING CODE ACCESSIBILITY REQUIREMENTS AND PLUMBING FIXTURE FLOW REQUIREMENTS OF THE 2015 NEW YORK STATE PLUMBING CODE.

1. THE SANITARY SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH THE GENERAL PROVISIONS OF SECTION PC301.
2. THE MATERIALS USED IN THE PLUMBING SYSTEMS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS PC302 AND PC303.
3. EQUIPMENT HOOK-UP AND THE JOINING SHALL BE IN COMPLIANCE WITH SECTIONS PC605 AND PC705.
4. THE INSTALLATION OF FIXTURES SHALL BE IN ACCORDANCE WITH PC CHAPTER 4.
5. TRAPS FOR FIXTURES AND DRAIN LINES SHALL BE PROVIDED AND CLEANOUTS INSTALLED IN COMPLIANCE WITH SECTIONS PC708 AND PC CHAPTER 10.
6. VERTICAL AND HORIZONTAL PIPING SHALL BE HUNG AND SUPPORTED AS DIRECTED IN SPECIFICATIONS AND IN COMPLIANCE WITH SECTION PC308.
7. THE WATER SUPPLY SYSTEMS OF THE SUBJECT BUILDING SHALL BE INSTALLED IN COMPLIANCE WITH PC CHAPTER 6.
8. THE SANITARY DRAINAGE SYSTEM SHALL BE SIZED AND INSTALLED IN COMPLIANCE WITH PC CHAPTER 7.
9. THE VENT PIPING FOR THE SANITARY DRAINAGE SYSTEM OF THE SUBJECT BUILDING SHALL BE INSTALLED IN COMPLIANCE WITH SECTION PC702 & PC CHAPTER 9.
10. ALL TRENCHING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC306.
11. RAT PROOFING SHALL BE IN ACCORDANCE WITH SECTION PC304.
12. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR WORKMAN AS PER SECTION PC311.

PLUMBING DEMOLITION NOTES

1. DRAWINGS INDICATE VISIBLE CONDITIONS PRIOR TO DEMOLITION. DEMOLITION MAY UNCOVER ADDITIONAL PIPING OR EQUIPMENT THAT SHOULD BE ADDRESSED. REMOVE ALL EXISTING COMPONENTS SERVING THE AREA THAT ARE NOT INDICATED TO BE REUSED OR TO RECEIVE NEW CONNECTIONS. ALERT ARCHITECT/ENGINEER OF ANY CONDITIONS WHERE THE INTENT IS NOT CLEAR.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT. LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING AND EQUIPMENT SHALL BE VERIFIED AT THE SITE.
3. NOTIFY BUILDING MANAGER AT LEAST 48 HOURS BEFORE DEMOLITION WORK OR BEFORE SHUT DOWN OF EXISTING SERVICES. WHERE THE WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVOIDABLE, THEY SHALL BE MADE AT NIGHT OR AT TIMES THAT WILL CAUSE THE LEAST INTERFERENCE WITH THE ESTABLISHED OPERATING ROUTINE OF THE BUILDING.
4. THIS CONTRACTOR SHALL ARRANGE THE WORK CONTINUOUSLY, INCLUDING APPROVED BY OWNER OVERTIME IF REQUIRED, TO ASSURE THAT SERVICES WILL BE SHUT DOWN AND CUT-INS ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO EXISTING WORK. TO ENSURE CONTINUOUS OPERATIONS, MAKE ALL NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. ALL COSTS RESULTING FROM TEMPORARY SHUTDOWNS SHALL BE BORNE BY THE CONTRACTOR.
5. ANY AND ALL REQUIRED DEMOLITION WORK TO BE PERFORMED ABOVE EXISTING SUSPENDED CEILINGS AND FURRED OUT WALLS SHALL BE DONE AT THE TIME WHEN THE EXISTING CEILINGS AND FURRED OUT WALLS ARE REMOVED BY THE GENERAL CONTRACTOR.
6. REMOVE EXISTING PLUMBING FIXTURES AND PIPING IN THE AREA OF WORK. CUT AND CAP EXISTING WASTE, VENT, AND DOMESTIC LINES SERVING THESE FIXTURES BACK TO ACTIVE LINES OR AS INDICATED ON THE DRAWINGS. ALL REMOVED PLUMBING FIXTURES SHALL BE DISPOSED. UPON COMPLETION OF WORK, NO PIPING SHALL BE ABANDONED IN PLACE.
7. REMOVED EXISTING PIPING FITTINGS, VALVES, FIXTURES, ETC. SHALL NOT BE REUSED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
8. UNDER NO CIRCUMSTANCES WILL THIS CONTRACTOR OR HIS WORKMEN BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED BY THE OWNER FOR SUCH PURPOSES.
9. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL FROM THE PREMISES OF ALL DEBRIS RESULTING FROM PLUMBING WORK. UNNECESSARY NOISE SHALL BE AVOIDED AT ALL TIMES AND NECESSARY NOISE SHALL BE REDUCED TO A MINIMUM.
10. ALL EQUIPMENT AND INSTALLATIONS MUST BE EQUAL TO CONSTRUCTION FUND STANDARDS. ANY DEVIATION FROM THESE STANDARDS WILL BE PERMITTED ONLY IF INDICATED OR SPECIFIED ON THESE PLANS AND SPECIFICATIONS, AND APPROVED BY OWNER.

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE, UTILITY COMPANY REQUIREMENTS, AND THE BEST TRADE PRACTICES.
2. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED INSURANCE CERTIFICATES WITH THE DEPARTMENT OF BUILDINGS, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES REQUIRED BY THE GOVERNING NEW YORK STATE AGENCIES.
3. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT REQUIRED FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS.
4. THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH THE STIPULATIONS OF LOCAL AUTHORITIES, BUILDING MANAGEMENT OR BOARD OF DIRECTORS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.
6. THE CONTRACTOR SHALL LAY OUT HIS OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR OTHER TRADES: PLUMBING, ELECTRICAL, ETC.
7. PLUMBING WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN THROUGH THE DEPARTMENT OF BUILDINGS ALL REQUIRED PERMITS, INSPECTIONS AND REQUIRED SIGN OFFS.
8. ELECTRICAL WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN THROUGH THE BUREAU OF ELECTRICAL CONTROL ALL REQUIRED PERMITS, INSPECTIONS AND REQUIRED SIGN OFFS.
9. THE CONTRACTOR SHALL DO ALL CUTTING, PATCHING, REPARING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB.
10. ALL PIPING AND WIRING SHALL BE REMOVED TO A POINT OF CONCEALMENT AND SHALL BE PROPERLY CAPPED OR PLUGGED.

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SEAL

PROJECT

INTERIOR RENOVATION
CAMPUS CENTER SOUTH

DATE:	05/01/2017
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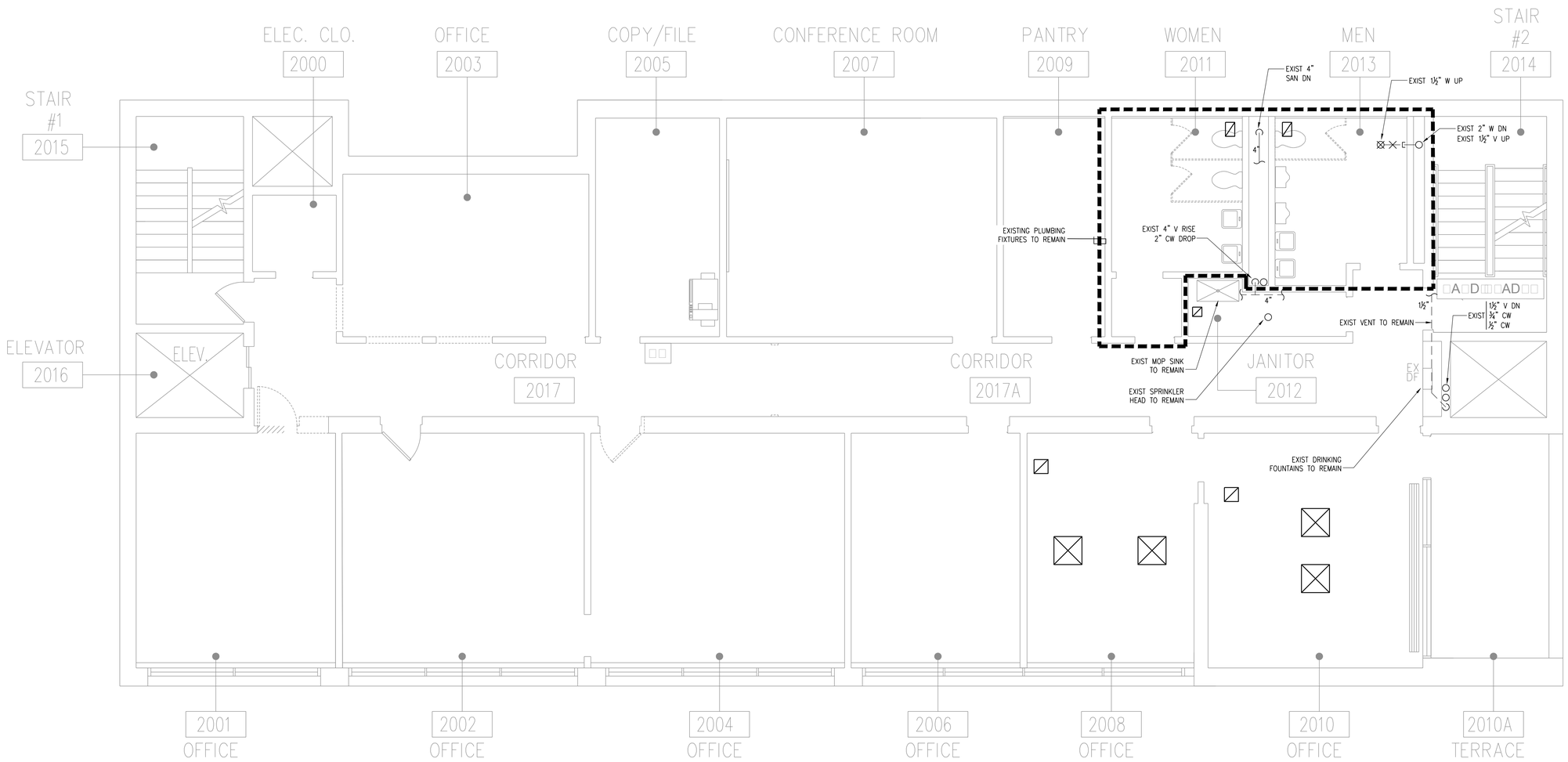
SCALE:	AS NOTED

DRAWING TITLE

PLUMBING SYMBOL LIST, DRAWING LIST, GENERAL NOTES, & ABBREVIATIONS

SHEET NO.

P-001.00



1 2ND FLOOR – DEMO
SCALE: 1/4" = 1'-0"

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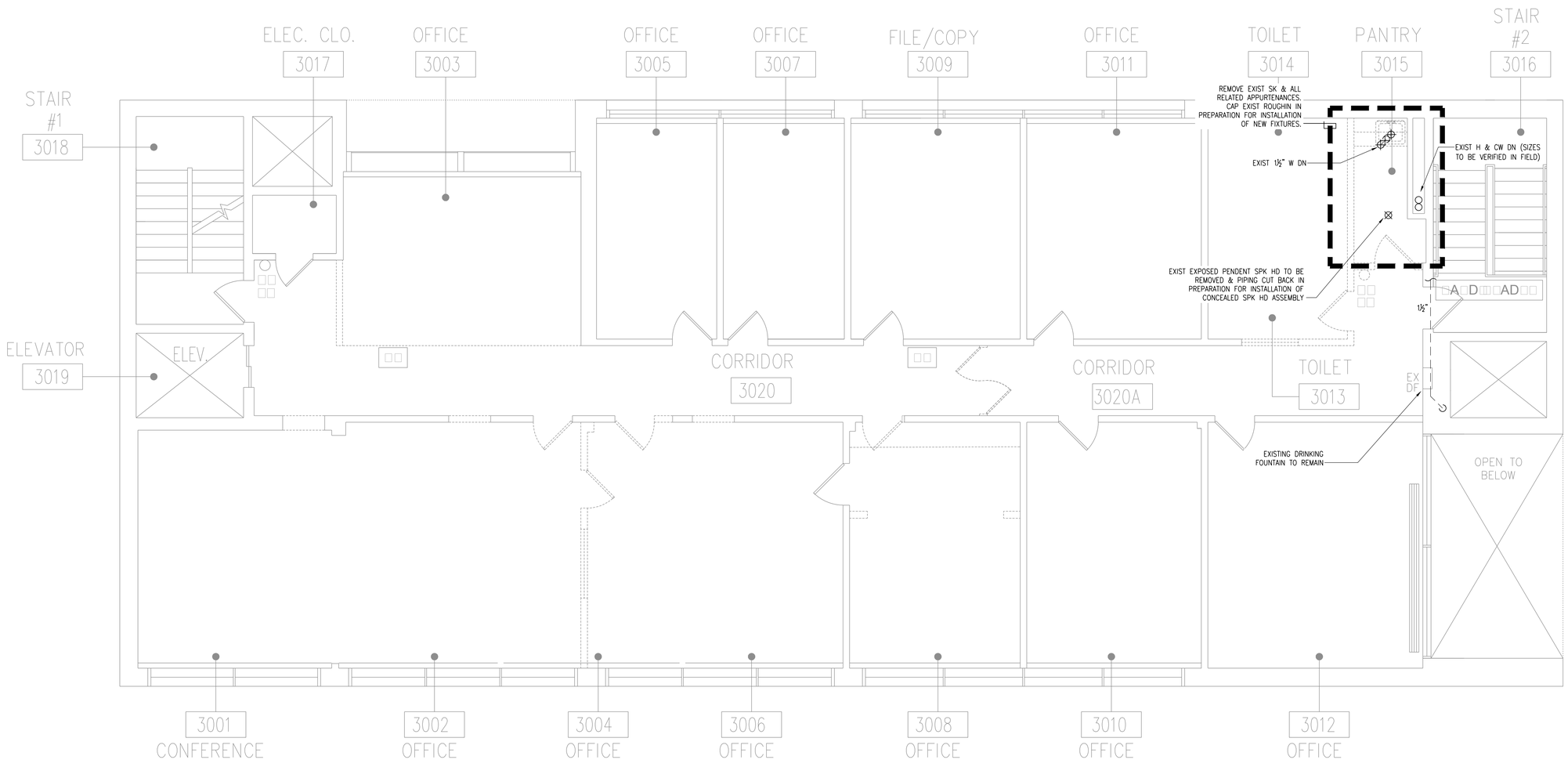
DRAWING TITLE
2ND FLOOR DEMOLITION PLUMBING PLAN

SHEET NO.
P–100.00



1 3RD FLOOR – DEMO
SCALE: 1/4" = 1'-0"

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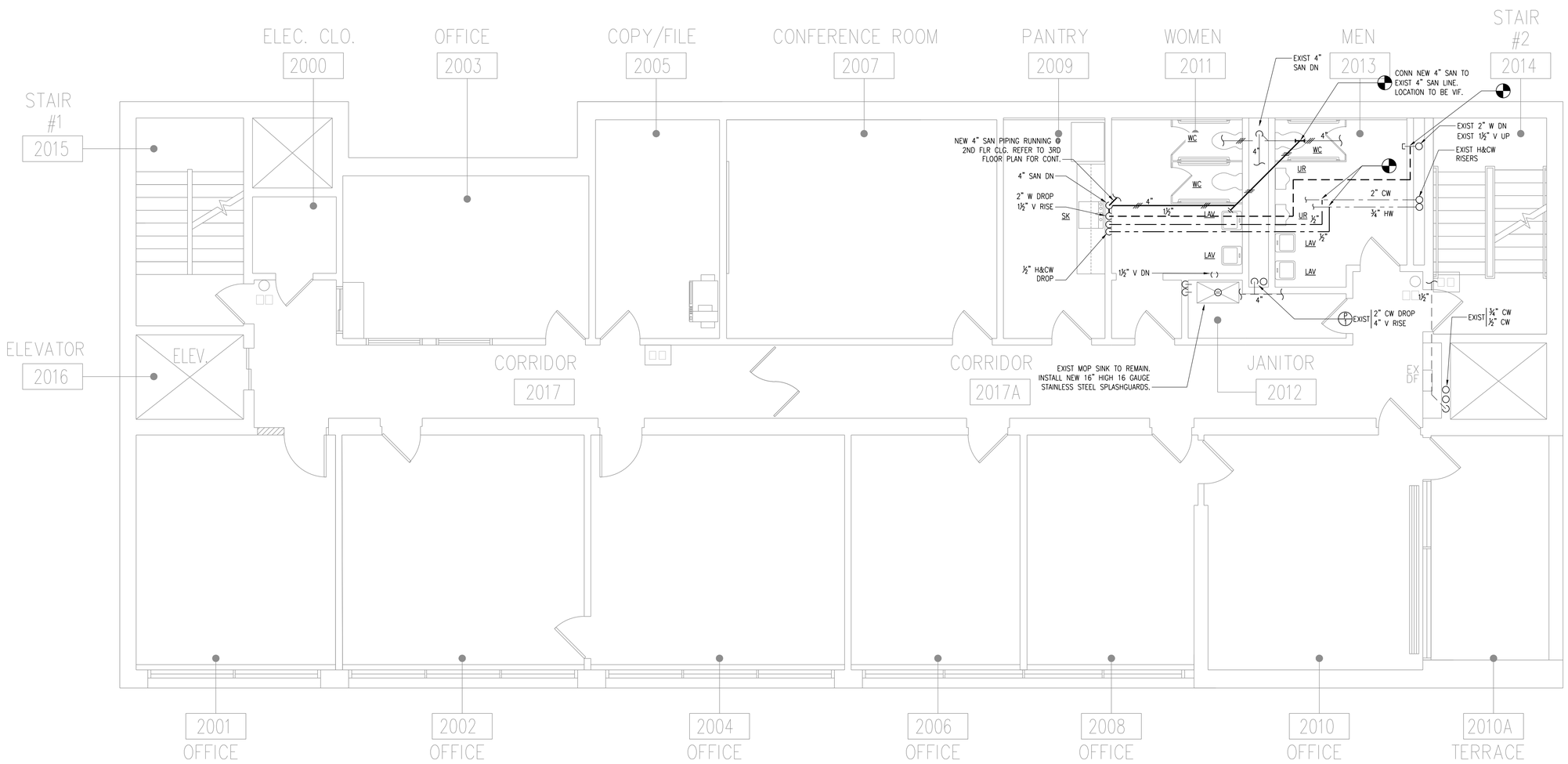
DRAWING TITLE
3RD FLOOR DEMOLITION PLUMBING PLAN

SHEET NO.
P–101.00



1 2ND FLOOR – CONSTRUCTION
SCALE: 1/4" = 1'-0"

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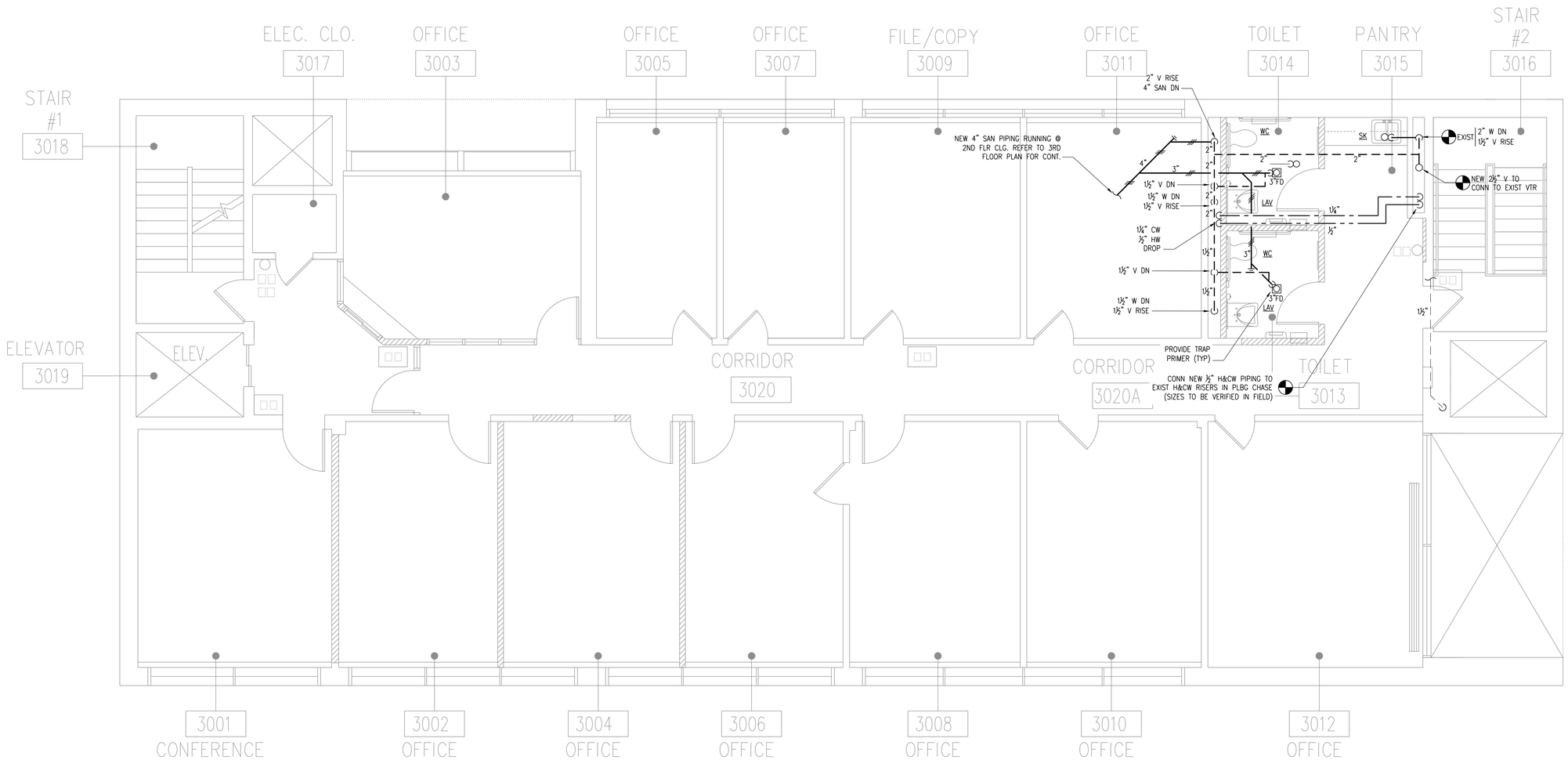
DRAWING TITLE

2ND FLOOR
CONSTRUCTION
PLUMBING PLAN

SHEET NO.

P–102.00



1 3RD FLOOR – CONSTRUCTION
SCALE: 1/4" = 1'-0"

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DRAWING TITLE
3RD FLOOR CONSTRUCTION PLUMBING PLAN

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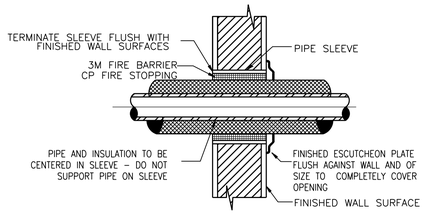
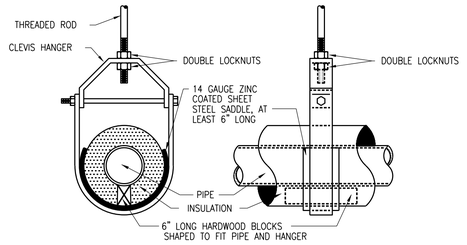
P–103.00



1 PIPE SLEEVE THRU INTERIOR FIRE RATED PARTITION

SCALE: NONE



WITH INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS USSG
UP TO 3"	6"	18
4" TO 6"	8"	16
8" & LARGER	12"	16

WITHOUT INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS USSG
UP TO 3"	12"	18
4"	15"	16
5"	18"	16
6"	21"	16
8" & LARGER	24"	14

2 TYPICAL INSULATED PIPE SUPPORT

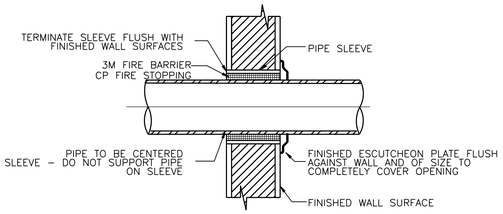
SCALE: NONE

PLUMBING FIXTURE SCHEDULE

DESIGNATION	FIXTURE	SERVICE CONNECTION S	W	V	CW	HW	REMARKS
WC	WATER CLOSET	4"	–	2"	1¼"	–	
LAV	LAVATORY	–	½"	1½"	½"	½"	
SK	PANTRY SINK	–	2"	1½"	½"	½"	

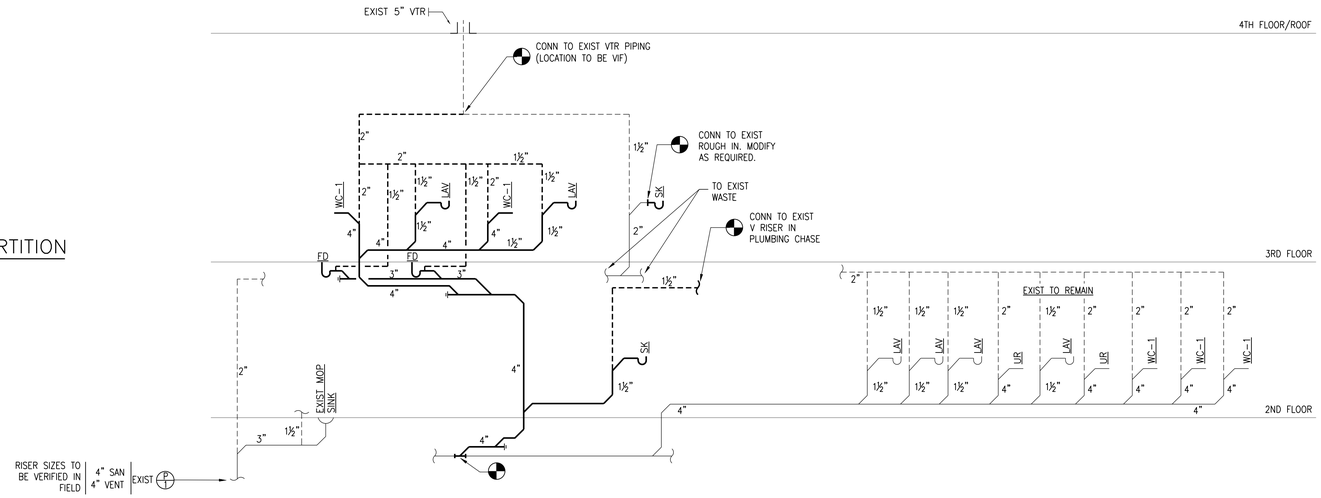
NOTES:

1. ALL FIXTURES ARE TO BE AS PER THE FAIRFIELD INN PLUMBING FIXTURE MATRIX, REFER TO ARCHITECTURAL SET OF DOCUMENTS FOR FIXTURE TYPE LOCATIONS.



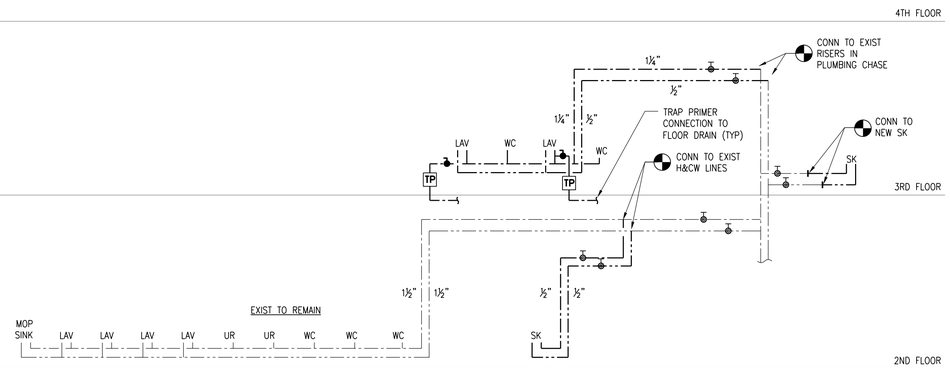
3 PIPE SLEEVE THRU NON FIRE RATED INTERIOR PARTITION

SCALE: 1/2"=1'-0"



4 SANITARY & VENTING RISER DIAGRAM

SCALE: NONE



5 DOMESTIC RISER DIAGRAM

SCALE: NONE

INTERCEPTORS & DRAINS SCHEDULE

DESIGNATION	REQUIRED	MANUFACTURER/MODEL SERIES NO.	ZURN	MIFAB	SMITH	JOSAM	BODY CAST IRON	GALVANIZED	STAINLESS STEEL	ALL BRONZE	ENAMEL COATED	CLAMPING DEVICE	FIXED EXTENSION	SECONDARY CLAMP	TRAP SEAL PRIMER TAPPING	NEO-LOC	NO-HUB	THREADED	STRAINER/TOP CAST IRON	GALVANIZED	NICKEL BRONZE	FLAT TOP	HEEL PROOF	FLANGE (WATER PROOFING)	REMARKS
FD	●	Z525					●				●				●	●			●			●			

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DRAWING TITLE

PLUMBING DETAILS, SCHEDULES, & RISER DIAGRAMS

SHEET NO.

P–200.00

PLUMBING 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 MATERIAL WHICH VIOLATES 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 AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.

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

   E. 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.

   F. 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.

   G. 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. 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.

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

   I. 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.

   J. THE LOCATIONS OF THE EXISTING SERVICES ARE BELIEVED TO BE AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THESE SERVICES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING ANY WORK.

   K. SEAL OPENINGS THROUGH WALLS AND FLOORS WITH A U.L.-LISTED FIRESTOPPING ASSEMBLY.

   L. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPING AND EQUIPMENT.

   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. REMOVED EQUIPMENT SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.

   N. 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.

   O. 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.

   P. UNLESS OTHERWISE SPECIFICALLY SPECIFIED, INCLUDE ALL CUTTING AND ROUGH PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING.

   Q. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS.

   R. 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.

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

   T. THE FINAL ACCEPTANCE WILL 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 & FEES NECESSARY FOR COMPLETE AND SAFE INSTALLATION IN CONFORMITY WITH THE NYC PLUMBING CODE AND ALL OTHER APPLICABLE INDUSTRY, NATIONAL AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.

   B. THE ARCHITECTURAL 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 BENEFICIAL 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 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.

3. SHOP DRAWINGS:

   A. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT PROVIDE COMPLETE SET 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 DRAWING SUBMITTED:

      a. PROJECT NAME AND LOCATION

      b. NAME OF ARCHITECT AND ENGINEER

      c. ITEM IDENTIFICATION

      d. APPROVAL STAMP OF PRIME CONTRACTOR

   C. SUBMISSIONS:

      a. SUBMISSIONS 11" X 17" OR SMALLER:

         IF THE SUBMISSION IS A CATALOG CUT, THEN THE CONTRACTOR SHALL SUBMIT ONE ORIGINAL AND TWO COPIES, OTHERWISE, HE SHALL SUBMIT THREE COPIES. THE ARCHITECT WILL FORWARD THE ORIGINAL AND ONE COPY (TWO COPIES WHEN NO ORIGINAL IS RECEIVED) TO THE ENGINEER. ALL CATALOG CUTS SHALL BE COMPLETE.

      b. SUBMISSIONS LARGER THAN 11" X 17":

         SUBMIT TWO PRINTS AND ONE PAPER SEPIA TO THE ARCHITECT. THE ARCHITECT WILL FORWARD ONE PRINT AND THE PAPER SEPIA TO THE ENGINEER.

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 8½" X 11" 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 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 ENGINEER AFTER COMPLETION OF THE INSTALLATION.

5. GENERAL PROVISIONS FOR PLUMBING 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. QUALITY ASSURANCE:

      a. QUALITY AND GAUGE OF MATERIALS:

         NEW, BEST OF THEIR RESPECTIVE KINDS, AND FREE FROM DEFECTS. MATERIALS AND EQUIPMENT OF SIMILAR APPLICATION SHALL BE OF SAME MANUFACTURER, EXCEPT AS NOTED.

      b. GUARANTEE:

         ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF WORK.

   C. PRODUCT DELIVERY, STORAGE AND HANDLING:

      a. MOVING OF EQUIPMENT:

         WHERE NECESSARY, SHIP IN CARTED SECTIONS OF SIZE TO PERMIT PASSING THROUGH AVAILABLE SPACES.

      b. ACCESSIBILITY:

         FOR OPERATION, MAINTENANCE AND REPAIR, MINOR DEVIATIONS SHALL BE PERMITTED. CHANGES OF MAGNITUDE OR INVOLVING EXTRA COST ARE NOT PERMISSIBLE WITHOUT REVIEW.

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

   E. FINAL LOCATIONS AND MOUNTING ORIENTATIONS OF ALL PLUMBING FIXTURES SHALL BE VERIFIED BY ARCHITECT.

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

6. PIPE AND FITTINGS:

   A. SANITARY DRAINAGE AND VENT:

      a. HUBLESS CAST IRON SOIL PIPE AND FITTINGS WITH EXTRA WIDE HEAVY DUTY GASKETED HUBLESS COUPLINGS HUSKIE SERIES 4000 COUPLINGS.

   B. DOMESTIC WATER:

      a. TYPE L HARD COPPER TUBING WITH CAST BRONZE OR WROUGHT COPPER FITTINGS AND 95/5 TIN ANTIMONY SOLDER JOINTS.

      b. STANDARD WEIGHT RED BRASS PIPE WITH STANDARD WEIGHT CAST BRONZE THREADED FITTINGS.

7. VALVES:

   A. GATE VALVES:

      a. BRONZE RISING STEM, 200 PSI WOG; SIMILAR TO STOCKHAM #B-105, B-109.

   B. BALL VALVES:

      a. TWO-PIECE, BRONZE, END ENTRY, 600 PSI WWP; SIMILAR TO STOCKHAM #S-216BR-R-T, #2-216 BR-R-S.

   C. CHECK VALVES:

      a. BRONZE, THREADED CAP, TEFLON DISC; SIMILAR TO STOCKHAM #B310T, B-320T.

8. INSULATION:

   A. ALL INSULATION (INCLUDING JACKET, FACING AND ADHESIVE) SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURES LISTED IN ASTM E-84, NFPA 255 AND UL 273; NOT EXCEEDING A FLAME SPREAD OF 25 AND A SMOKE DEVELOPED OF 50.

   B. ON VALVES AND FITTINGS PROVIDE PREMOLDED FIBERGLASS FITTINGS. VAPOR SEAL INSULATION ON "CW".

   C. "CW" PIPING:

      a. PROVIDE ½" THICK FIBERGLASS SECTION PIPE COVERING WITH VAPOR BARRIER JACKET.

   D. "HW" PIPING:

      a. PROVIDE 1" THICK FIBERGLASS SECTIONAL PIPE COVERING.

9. PLUMBING FIXTURES:

   A. PROVIDE ALL FIXTURES WITH STOP VALVES AND SUPPLIES AND FIXTURE TRAPS AS REQUIRED.

   B. ALL FIXTURES SHALL BE AS INDICATED ON ARCHITECTURAL DRAWING.

      a. MOP SINK: PROVIDE SPLASH GUARD AS MANUFACTURED BY ADVANCE TABCO MODEL K-288LorR

   C. VACUUM BREAKERS

      a. VACUUM BREAKER AS MANUFACTURED BY "WATTS" – MODEL #LF288A-C LEAD FREE BRASS BODY WITH POLISHED CHROME FINISH, ANTI-SIPHON AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

   D. TRAP PRIMER

      a. FURNISH AND INSTALL PRECISION PLUMBING PRODUCTS MODEL #PR-500 – PRIME-RITE TRAP PRIMER WHERE INDICATED ON DRAWING. INSTALL AS PER MANUFACTURER'S REQUIREMENTS.

10. PIPING SUPPORTS:

   A. SUPPORT ALL PIPING FROM BUILDING CONSTRUCTION BY PROVIDING INSERTS, BEAM CLAMPS, STEEL FISHPLATES (IN CONCRETE FILL ONLY), AND ACCEPTABLE BRACKETS. SUBMIT ALL METHODS FOR REVIEW.

   B. PROVIDE TRAPEZE HANGERS OF BOLTED ANGLES OR CHANNELS FOR GROUPED LINES AND SERVICES.

   C. PROVIDE ADDITIONAL FRAMING WHERE BUILDING CONSTRUCTION IS INADEQUATE. SUBMIT FOR REVIEW.

   D. SUSPENDED HORIZONTAL PIPING:

      a. SUPPORT ALL PIPING INDEPENDENTLY FROM STRUCTURE USING HEAVY IRON-HINGED TYPE HANGERS, SIMILAR TO GRINNEL CLEVIS NO. 260.

      b. PROVIDE ELECTROPLATED SOLID-BAND HANGERS SIMILAR TO AUTO-GRIP, FOR 2" AND SMALLER PIPE.

      c. PROVIDE WALL BRACKETS FOR WALL SUPPORTED PIPING AND PROVIDE PIPE SADDLES FOR FLOOR MOUNTED PIPING.

      d. PROVIDE SUPPORTS WITH COPPER LINING FOR UNINSULATED COPPER PIPING.

      e. SUSPEND PIPING FROM INSERTS, USING BEAM CLAMPS WITH RETAIN CLAMP OR LOCKNUT, STEEL FISHPLATES, CANTILEVER BRACKETS OR OTHER ACCEPTED MEANS. BEAM CLAMPS SHALL BE SIMILAR TO GRINNEL FIGURES 61, 87, 131 OR 225.

      f. SUSPEND PIPING BY RODS WITH DOUBLE NUTS.

      g. PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED AND ACCEPTED WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING HANGER RODS IN REQUIRED LOCATIONS.

      h. SUPPORT BRANCH FIXTURE WATER PIPING IN CHASES WITH COPPER-PLATED METAL BRACKETS, SECURED TO STUDS, SIMILAR TO HOLDRITE NOS. 102-18, 107-18, 102-26 OR 101-26.

   E. PROVIDE 180° ARC GALVANIZED METAL COVERING SHIELDS ON HANGERS FOR INSULATED PIPING WITHOUT INCOMPRESSIBLE INSULATING BLOCK IN INSULATION AT HANGERS.

   F. MAXIMUM HANGER SPACING AS INDICATED:

      a. PIPE ⅜"-¾" SHALL BE EVERY 6'.

      b. PIPE 1" SHALL BE EVERY 10'.

      c. PIPE 1¼" AND LARGER SHALL BE EVERY 10'.

      d. COPPER TUBING 1¼" AND SMALLER SHALL BE EVERY 6'.

      e. COPPER TUBING 1½" AND LARGER SHALL BE EVERY 10'.

      f. CAST IRON: EVERY 5' AND AT EVERY FITTING OR JOINT.

   G. VERTICAL PIPING:

      a. PROVIDE SPACING AS INDICATED:

         1) THREADED PIPING SHALL BE EVERY OTHER FLOOR LEVEL, AT A MAXIMUM OF 25' ON CENTERS.

         2) CAST IRON PIPING SHALL BE EVERY FLOOR LEVEL, MAXIMUM 20' ON CENTERS; HUBLESS PIPE IS THE EXCEPTION, REQUIRING A MAXIMUM OF 10' ON CENTERS.

         3) TUBING SHALL BE EVERY FLOOR LEVEL MAXIMUM TEN FEET ON CENTERS.

   H. EXPANSION ANCHORS:

      a. PROVIDE SMOOTH WALL, NON-SELF-DRILLING INTERNAL PLUG EXPANSION TYPE ANCHORS CONSTRUCTED OF AISC 12L14 STEEL AND ZINC PLATED IN ACCORDANCE WITH FED. SPEC. QQ-A-325 TYPE 1, CLASS 3.

      b. DO NOT EXCEED ¼" OF AVERAGE VALVES FOR A SPECIFIC ANCHOR SIZE USING 2000 PSIG (13,800 KPA) CONCRETE ONLY, FOR MAXIMUM WORKING LOADS.

      c. PROVIDE SPACING AND INSTALL ANCHORS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

      d. EXPANSION ANCHORS SHALL BE QUALIFIED PER ASCE 93 AND HAVE AN ESR REPORT, QUALIFIED FOR CRACKED CONCRETE.

11. TESTS:

   A. DOMESTIC WATER PIPING:

      a. TEST PIPING HYDROSTATICALLY AT A PRESSURE OF 125 PSI.

      b. DURATION OF TEST SHALL BE 2 HOURS WITHOUT A LOSS IN PRESSURE.

   B. DRAINAGE AND VENT PIPING:

      a. CAP ALL OUTLETS AND FILL PIPING SYSTEM TO OVERFLOWING FROM A POINT AT LEAST 10' ABOVE THE FLOOR.

      b. THE WATER LEVEL SHALL REMAIN CONSTANT THROUGHOUT THE TEST DURATION OF 2 HOURS.

   C. ARRANGE AND COORDINATE TESTS WITH OWNER 48 HOURS IN ADVANCE. NOTIFY ENGINEER AND ARCHITECT OF TEST AND DATE TIME.

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NO.	REVISION/ISSUE	DATE
2.	ISSUE FOR BID	05/10/2017
1.	ISSUE FOR 90% REVIEW	05/01/2017

SEAL

PROJECT

INTERIOR RENOVATION
CAMPUS CENTER SOUTH

DATE:	05/01/2017
PROJECT NO:	DA 16169 / SU 022317
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE

PLUMBING SPECIFICATIONS

SHEET NO.

P-300.00

FIRE ALARM SYMBOLS LIST

F	COMBINATION SPEAKER STROBE LIGHT OR HORN STROBE LIGHT
FS	WATER FLOW SWITCH
TS	TAMPER SWITCH
F	FIRE ALARM PULL STATION
F	STROBE LIGHT
FSD$_R$	FIRE/SMOKE DAMPER RETURN AIR(SMOKE EX) SYSTEM
FSD$_S$	FIRE/SMOKE DAMPER SUPPLY AIR SYSTEM
C	CARBON MONOXIDE DETECTOR WITH ALARM
S$_{EL}$	SMOKE DETECTOR WITH ELEVATOR RECALL
S	SMOKE DETECTOR
H	HEAT DETECTOR
D	DUCT DETECTOR – PHOTO CELL TYPE
R	INTERFACING RELAY FOR FSD
FAP	SURFACE MOUNTED FIRE ALARM PANEL
CM	CONTROL MODULE TO RELEASE DOORS
EX	EXISTING TO REMAIN. PROTECT DEVICE THROUGHOUT CONSTRUCTION.
EXR	EXISTING TO BE RELOCATED TO NEW POSITION. PROTECT DEVICE THROUGHOUT CONSTRUCTION.
RL	DEVICE RELOCATED TO NEW POSITION.
RM	DEVICE TO BE REMOVED.

FIRE ALARM DRAWING LIST

FA-001	FIRE ALARM SYMBOL LIST, GENERAL NOTES, SEQUENCE OF OPERATION MATRIX, AND DRAWING LIST
FA-100	2ND FLOOR FIRE ALARM DEMOLITION PLAN
FA-101	3RD FLOOR FIRE ALARM DEMOLITION PLAN
FA-200	2ND FLOOR FIRE ALARM PLAN
FA-201	3RD FLOOR FIRE ALARM PLAN
FA-300	FIRE ALARM RISER DIAGRAM AND DEVICE HEIGHT DETAIL

FIRE ALARM GENERAL NOTES

1. NO CONDUITS ARE TO ENTER THE TOP OF A FIRE ALARM CONTROL PANEL REGARDLESS OF SYSTEM TYPE OR SIZE.
2. ALL CEILING MOUNTED DEVICES MUST BE SECURELY FASTENED TO THE BUILDING STRUCTURE AND NOT TO THE CEILING GRID. ALL WALL-MOUNTED DEVICES SHALL BE SECURELY MOUNTED IN PLACE.
3. ALL FIRE ALARM PANELS, JUNCTION BOX COVERS, ETC. SHALL BE PAINTED "FIRE DEPARTMENT RED".
4. DEVICE LOCATIONS MUST BE READILY ACCESSIBLE TO ALLOW FOR MAINTENANCE AND REPAIR.
5. STROBE LIGHTS SHALL MEET CURRENT AMERICAN DISABILITY ACT (ADA) REQUIREMENTS. STROBE LIGHTS SHALL HAVE A 1-3 HZ. FLASH RATE AND ALL APPLIANCES SHALL BE SYNCHRONIZED AS REQUIRED NFPA72.
6. STROBES SHALL BE INSTALLED AS SHOWN IN THE "FIRE ALARM DEVICE HEIGHT" DETAIL ON DWG FA-300.
7. ALL WIRING SHALL BE FPLP 150 DEGREE CELSIUS. INSTALLATION SHALL COMPLY WITH THE 2015 CODES OF NYS, ELECTRICAL INSTALLATION SHALL COMPLY WITH 1 RCNY 4000-06, EQUIPMENT/DEVICES USED ARE BY APPROVED MANUFACTURERS AND ARE LISTED FOR THEIR USE.
8. DO NOT RUN FIRE ALARM CABLE IN THE SAME RACEWAY WITH NON FIRE ALARM CABLE.
9. INSTALL ALL FIRE ALARM WIRING IN 3/4 INCH MINIMUM EMT/RGS.
10. OBSERVE ALL POLARITY ON ALL FIRE ALARM CIRCUITS. NO TEE TAPPING IS PERMITTED ON ALARM INDICATING CIRCUITS (STROBES, SPEAKERS, ETC.).
11. ALL FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. FURTHERMORE, CONDUCTORS IN CABINETS SHALL BE FORMED SO THAT THEY DROP OFF DIRECTLY OPPOSITE TO ITS TERMINAL CONNECTION. ALL TERMINALS SHALL BE NUMBERED AND LABELED IN EVERY CABINET.
12. ANY REQUIREMENTS FOR SHIELDING CERTAIN CONDUCTORS OR RUNNING THEM IN SEPARATE RACEWAYS SHALL BE AS RECOMMENDED BY THE MANUFACTURERS DOCUMENTATION.
13. ALL WIRING TO BE CHECKED TO INSURE THAT THEY ARE FREE OF ANY OPENS, SHORTS OR GROUNDS.
14. ALL FIRE ALARM JUNCTION BOXES, BOOSTER POWER SUPPLIES, PANELS ETC. SHALL BE CLEARLY LABELED USING A RED LAMINATE TYPE ENGRAVED LABEL WITH MINIMUM 1 INCH HIGH ENGRAVED WHITE LETTERS. THE LABEL SHALL STATE THE SPECIFIC PURPOSE OF THE PANEL AND WHAT FLOORS IT SERVES.
15. EXISTING FAN SHUTDOWN, DAMPER CONTROL OR ANY OTHER AUXILIARY RELAYS CONNECTED TO THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN.
16. PROVIDE BATTERY POWER REQUIREMENTS IN ACCORDANCE WITH FIRE CODE OF NYS.
17. EXISTING FIRE PANEL IS LOCATED IN STORAGE ROOM OF CAMPUS CENTER SOUTH BASEMENT.
18. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS FOR EXISTING STRUCTURES PRIOR TO THE COMMENCEMENT OF WORK.
19. THE CONTRACTOR SHALL, UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR THE REQUIRED CONSTRUCTION PERMIT(S), FEES, LICENSES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
20. COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK/PROJECT.
21. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY WITHOUT COMPROMISING THE QUALITY OF THE WORK.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS, AND OFF ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.
23. FIRESTOPPING SHALL BE INSTALLED AT ALL PENETRATIONS OF FIRE RATED CONSTRUCTION AS PER SPECIFICATIONS. MATERIAL IS TO BE APPROPRIATE FOR THE ASSEMBLY AND SHALL HAVE AN MEA NUMBER.
24. UNDER NO CIRCUMSTANCES SHALL THE EXISTING FIRE ALARM SYSTEM BE RENDERED INOPERATIVE FOR ANY PERIOD OF TIME WITHOUT PRIOR NOTIFICATION AND APPROVAL OF THE BUILDING ENGINEER, AT LEAST FIVE (5) DAYS IN ADVANCE OF SHUTDOWN. PHASING OF THE WORK INVOLVING SHUTDOWNS SHALL BE PLANNED IN CLOSE CONSULTATION WITH THE BUILDING ENGINEER AND LOCAL AUTHORITIES HAVING JURISDICTION.
25. PROVIDE ALL REQUIRED DEVICES, CONTROL MODULES, EQUIPMENT, AND WIRING REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
26. TEST SYSTEM TO ENSURE COMPLETE FUNCTIONALITY OF ALL NEW AND EXISTING EQUIPMENT AND DEVICES.
27. PROVIDE BATTERY AND POWER SUPPLY AS REQUIRED TO ACCOMMODATE THE ADDITIONAL DEVICES.
28. CLASS AND STYLE OF WIRE: INITIATING DEVICE CIRCUITS SHALL BE WIRED CLASS B. NOTIFICATION APPLIANCE CIRCUITS SHALL BE WIRED CLASS Y. CLASS Y IS EQUIVALENT TO CLASS B FOR INITIATING DEVICE CIRCUITS.
29. ALL AREA SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC TYPE.
30. SMOKE DETECTORS MUST BE MOUNTED AT LEAST 3 FT. AWAY FROM ANY AIR REGISTER.

		CONTROL UNIT ANNUNCIATION						NOTIFICATION								REQUIRED FIRE SAFETY CONTROL							
		ACTUATE COMMON ALARM SIGNAL	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	ACTUATE VISUAL/AUDIO DEVICES ON THE FIRE FLOOR, FLOOR ABOVE AND FLOOR BELOW. SOUND INQUIRY TONE ON ALL OTHER FLOORS.	DISPLAY/PRINT CHANGE OF STATUS	TRANSMIT AUTOMATIC ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT MANUAL SIGNAL TO SUPERVISING STATION	TRANSMIT WATERFLOW SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT CO SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	RELEASE MAGNETICALLY HELD DOORS	SHUTDOWN RTU(S) OR BOILERS SERVING FLOOR	PROVIDE ALARM VERIFICATION, RECALL ELEVATORS TO GROUND FLOOR	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	M	N	O	P	Q	R	S	T		
1	MANUAL FIRE ALARM BOXES	X	X					X	X		X					X							1
2	AREA SMOKE DETECTORS	X	X					X	X	X						X			X	X	X		2
3	ELEVATOR LOBBY & SMOKE DETECTORS	X	X					X	X	X						X		X	X	X	X		3
4	HEAT DETECTORS	X	X					X	X	X						X			X	X	X		4
5	WATERFLOW	X	X					X	X			X				X		X	X	X	X		5
6	TAMPER SWITCH			X	X				X				X										6
7	CARBON MONOXIDE DETECTORS	X	X						X					X			X						7
8	FIRE ALARM AC FAILURE					X	X		X						X								8
9	FIRE ALARM SYSTEM LOW BATTERY					X	X		X						X								9
10	OPEN CIRCUIT					X	X		X						X								10
11	GROUND FAULT					X	X		X						X								11
12	NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X		X						X								12
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T		

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NO.	REVISION/ISSUE	DATE
2.	ISSUE FOR BID	05/10/2017
1.	ISSUE FOR 90% REVIEW	05/01/2017

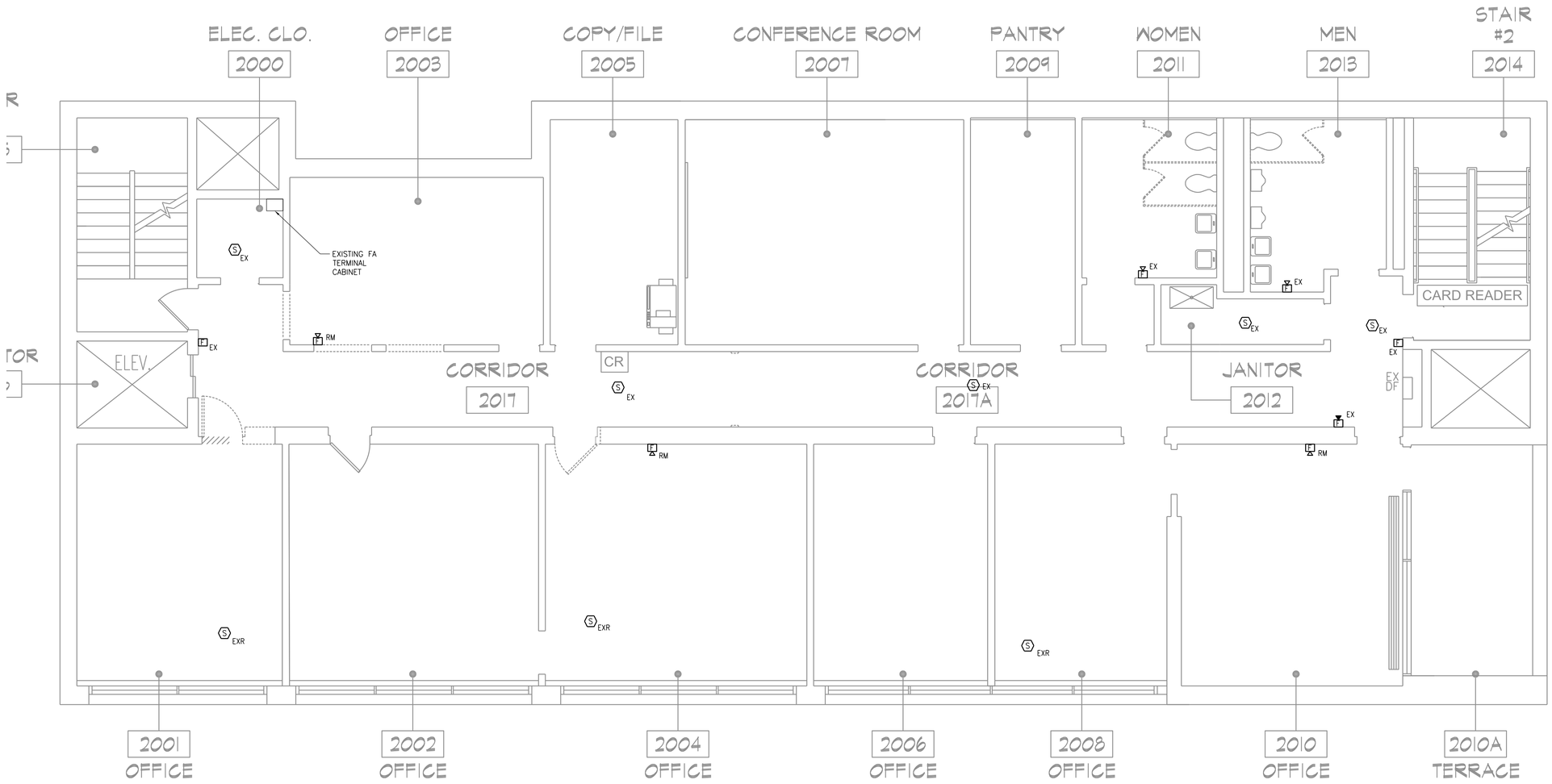
SEAL

PROJECT
INTERIOR RENOVATION
CAMPUS CENTER SOUTH

DATE:	05/01/2017
PROJECT NO:	DA 16169 / SU 022317
DRAWN BY:	YK
CHECKED BY:	PD/SGD
SCALE:	AS NOTED

DRAWING TITLE
FIRE ALARM SYMBOL LIST, GENERAL NOTES SEQUENCE OF OPERATION MATRIX, AND DRAWING LIST

SHEET NO.
FA-001



FIRE ALARM GENERAL NOTES:

1. EXISTING FIRE ALARM DEVICES ARE SHOWN ON PLAN FOR CLARIFICATION ONLY. RISER DIAGRAM ON FA-300 INDICATES NEW WORK UNDER THIS SCOPE.

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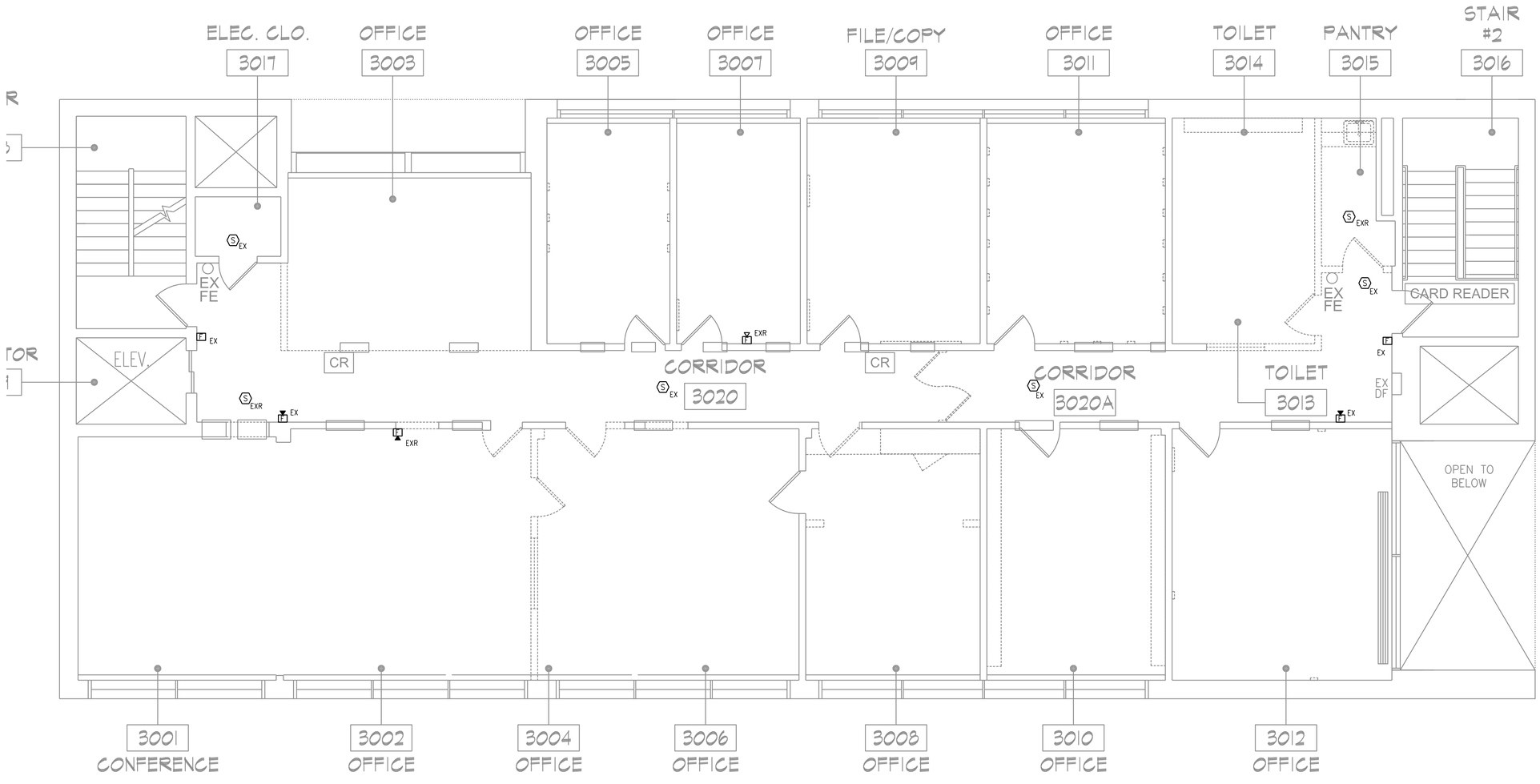
DRAWING TITLE
2ND FLOOR FIRE ALARM DEMOLITION PLAN

SHEET NO.
FA-100



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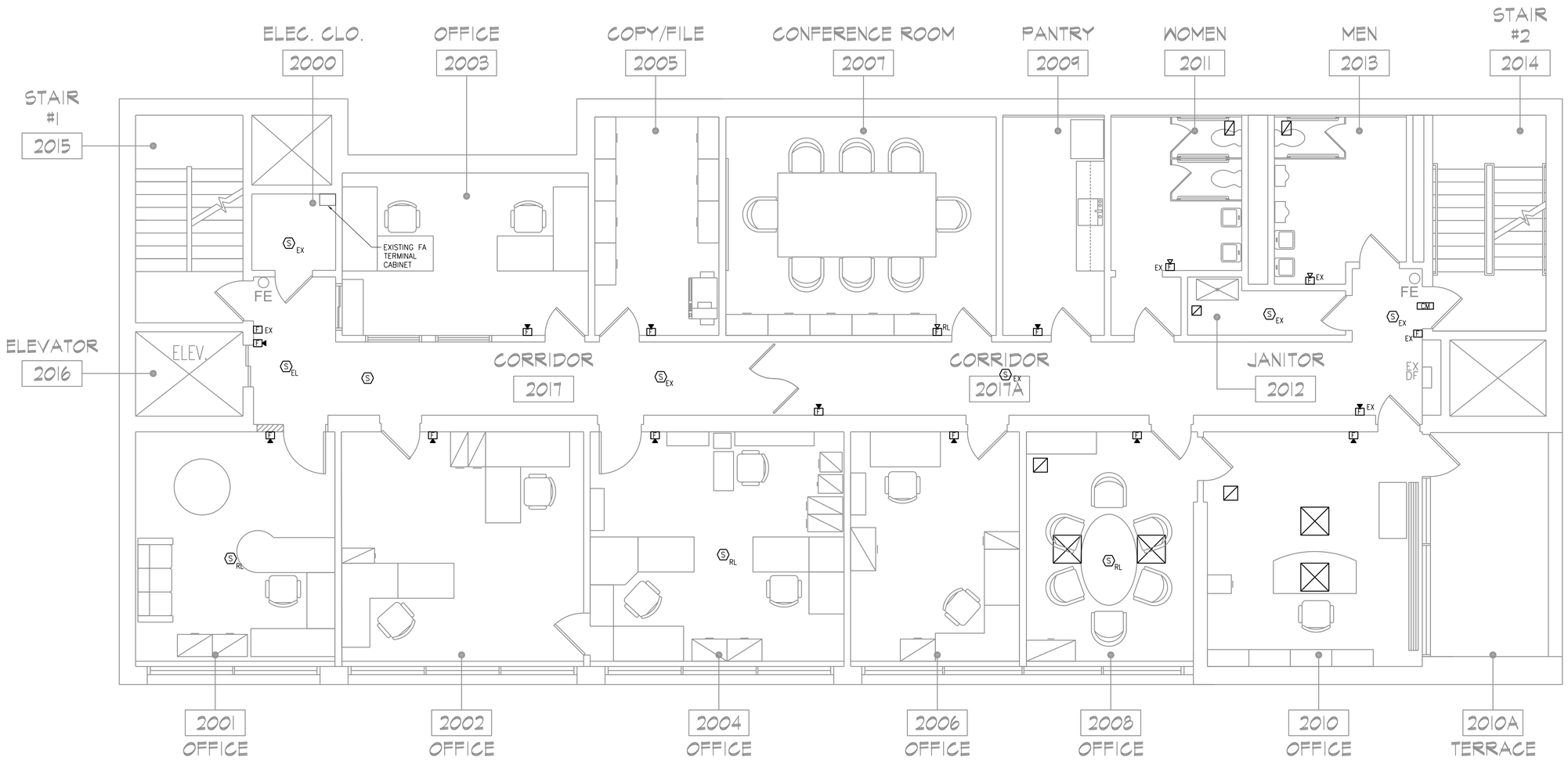
DRAWING TITLE
3RD FLOOR FIRE ALARM DEMOLITION PLAN

SHEET NO.
FA-101



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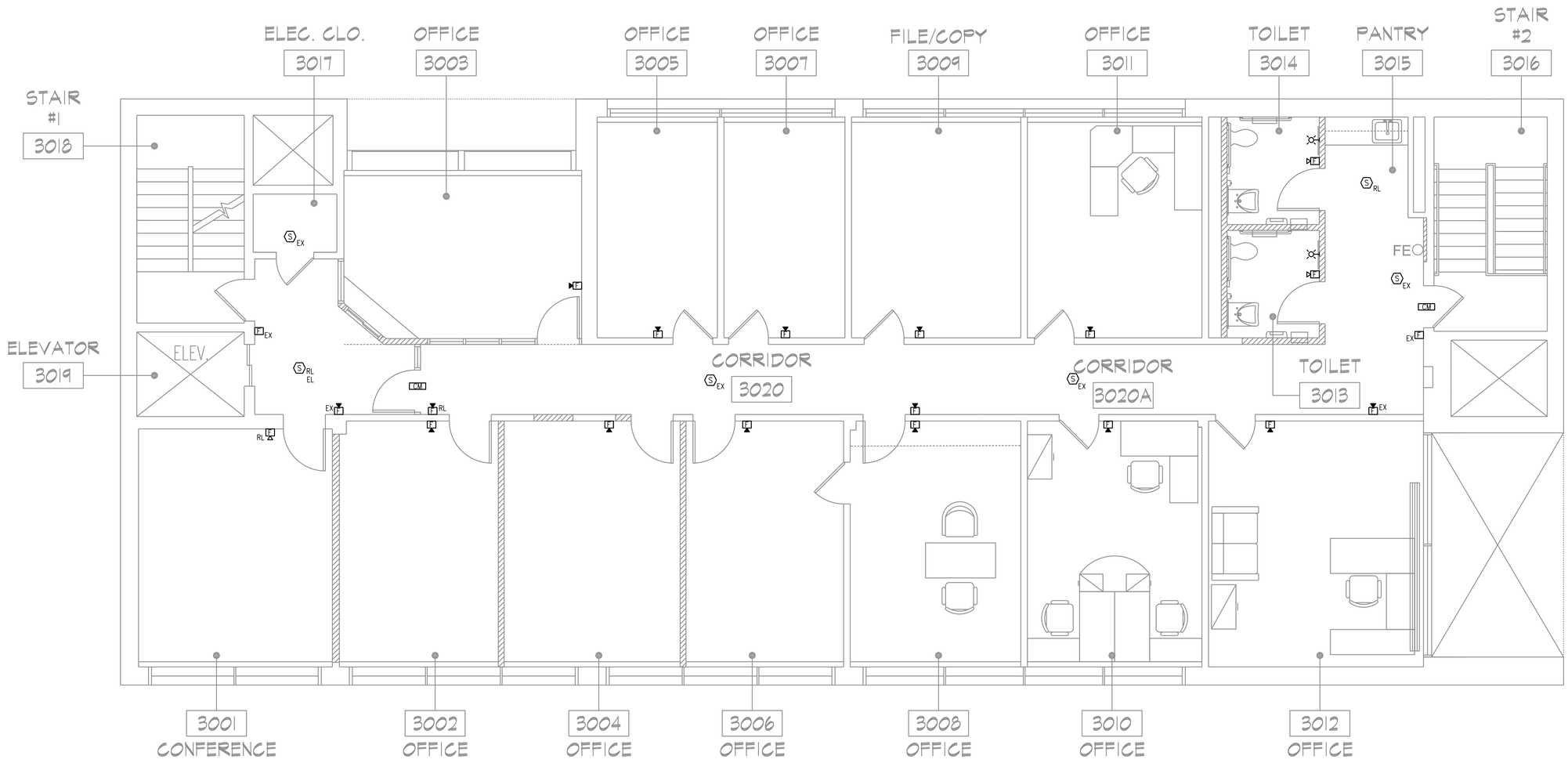
2ND FLOOR
FIRE ALARM PLAN

SHEET NO.

FA-200



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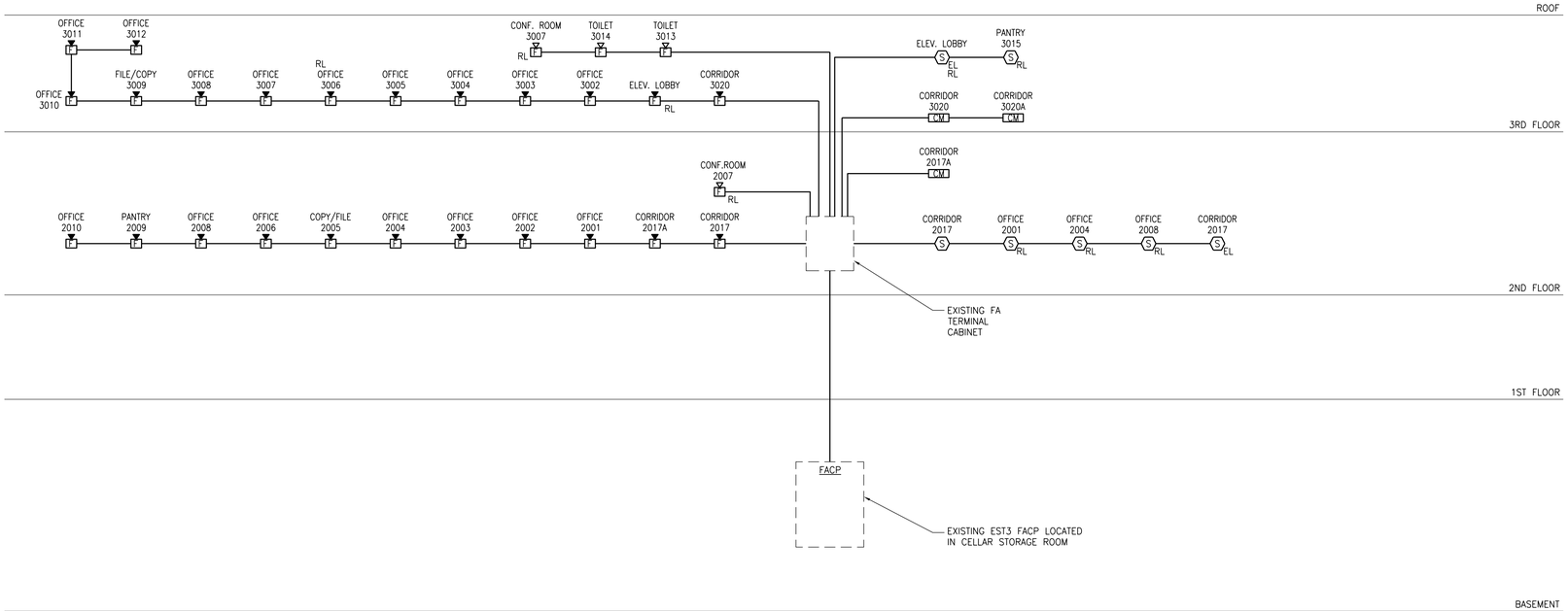
3RD FLOOR
FIRE ALARM PLAN

SHEET NO.

FA-201



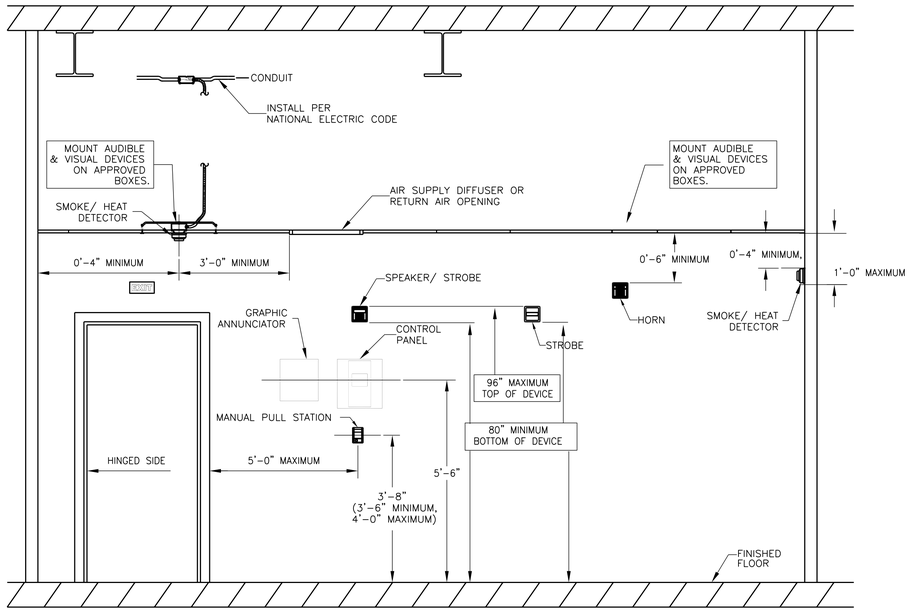
1 FIRE ALARM RISER DIAGRAM

SCALE: N/A

NOTES:

1. RISER DIAGRAM SHOWS NEW FIRE ALARM DEVICES ONLY.
2. EXISTING PANEL PROVIDED BY RED HAWK FIRE AND SECURITY. REPROGRAM PANEL AS REQUIRED.

NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



2 FIRE ALARM DEVICE HEIGHT DETAIL

SCALE: N/A

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DRAWING TITLE

FIRE ALARM RISER DIAGRAM AND DEVICE HEIGHT DETAIL

SHEET NO.

FA-300