

# LOGAN ELEMENTARY SCHOOL/MIDDLE SCHOOL NEW SECURITY VESTIBULES & WINDOW REPLACEMENT

110 SCHOOL LANE  
LOGAN TOWNSHIP, NEW JERSEY 08085

PROJECT NUMBER: 19-18L

AND

CENTER SQUARE SCHOOL  
NEW SECURITY VESTIBULE  
100 PEACHWOOD DRIVE  
LOGAN TOWNSHIP, NEW JERSEY 08085

PROJECT NUMBER: 19-18C

FOR THE  
LOGAN TOWNSHIP SCHOOL DISTRICT  
110 SCHOOL LANE  
LOGAN TOWNSHIP, NEW JERSEY 08085



**CONSTRUCTION MANAGER:**

GREYHAWK, LLC  
2000 MIDLANTIC DRIVE, SUITE 210,  
MOUNT LAUREL, NJ 08054  
PHONE: 856-722-1800 FAX: 856-722-1806

**MECHANICAL, PLUMBING,  
ELECTRICAL ENGINEER:**

MULHERN CONSULTING ENGINEERS  
321 SOUTH YORK ROAD, HATBORO, PA 19040  
PHONE: 215-293-9900 FAX: 215-441-5984



# LOGAN ELEMENTARY SCHOOL/MIDDLE SCHOOL NEW SECURITY VESTIBULES & WINDOW REPLACEMENT

110 SCHOOL LANE  
LOGAN TOWNSHIP, NEW JERSEY 08085

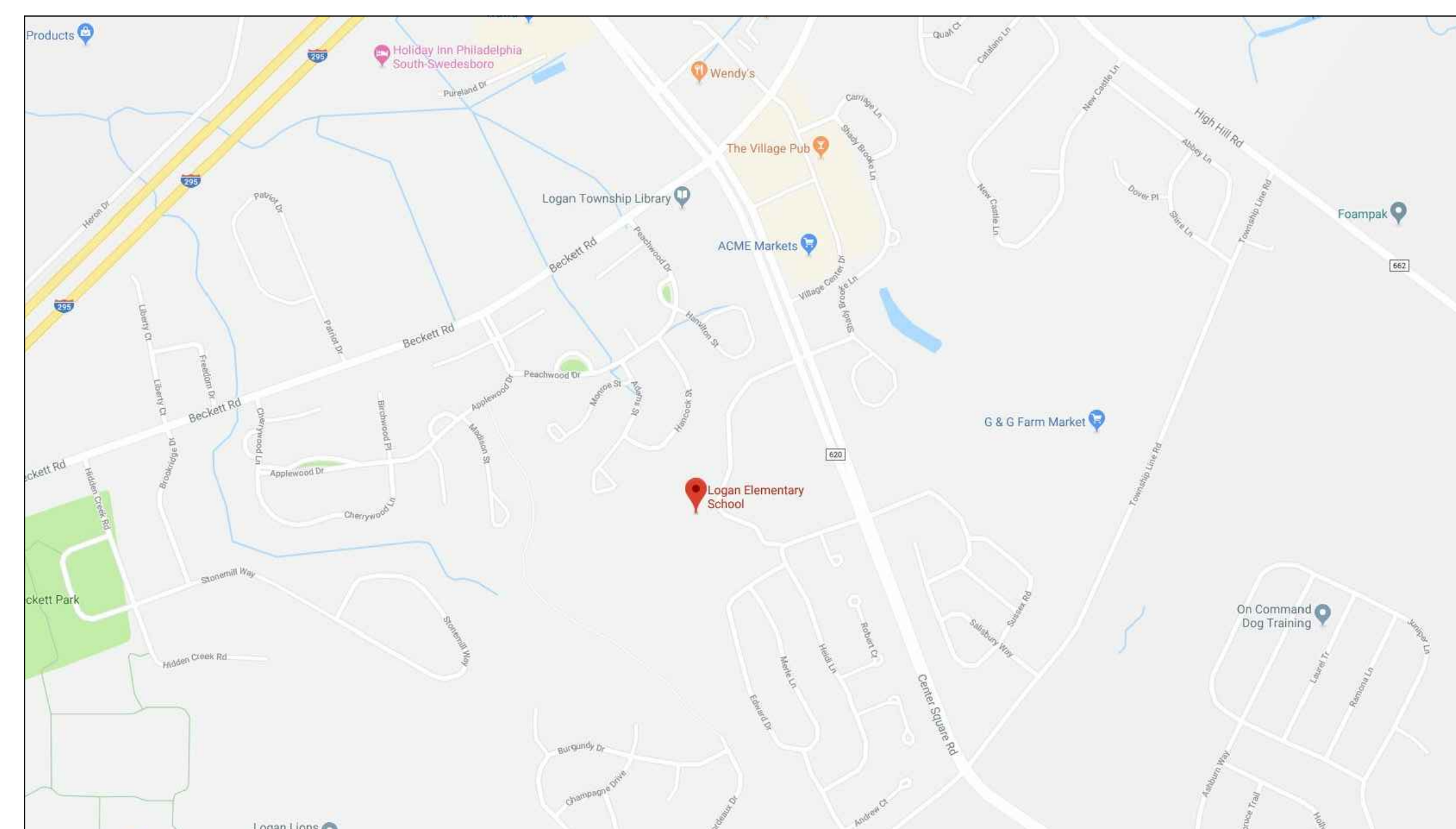
FOR THE  
LOGAN TOWNSHIP SCHOOL DISTRICT  
110 SCHOOL LANE  
LOGAN TOWNSHIP, NEW JERSEY 08085

PROJECT NUMBER: 19-18L  
TYPE OF CONSTRUCTION: 2B  
USE GROUP: E

**NEW JERSEY MODEL CODE ADOPTIONS & STANDARDS:**  
BUILDING SUBCODE: INTERNATIONAL BUILDING CODE/2015, NEW JERSEY EDITION  
PLUMBING SUBCODE: NATIONAL STANDARD PLUMBING CODE/2015  
ELECTRICAL SUBCODE: NATIONAL ELECTRICAL CODE (NFPA 70)/2014  
ENERGY SUBCODE: ASHRAE STD. 90.1-2013 (COMMERCIAL)  
MECHANICAL SUBCODE: INTERNATIONAL MECHANICAL CODE/2015  
FUEL GAS SUBCODE: INTERNATIONAL FUEL GAS CODE/2015  
REHABILITATION SUBCODE: NJUCC, SUBCHAPTER 6  
BARRIER FREE SUBCODE: (SUB 7) - ICC/ANSI A117.1-2009  
FIRE PROTECTION SUBCODE: INTERNATIONAL BUILDING CODE/2015, NEW JERSEY EDITION  
NJ UCC BULLETIN 00-3: PUBLIC SCHOOLS-FACILITY PLANNING STANDARDS & UCC ENHANCEMENTS



**BIRD EYES VIEW**



**LOCATION MAP**

**CONSTRUCTION MANAGER:**

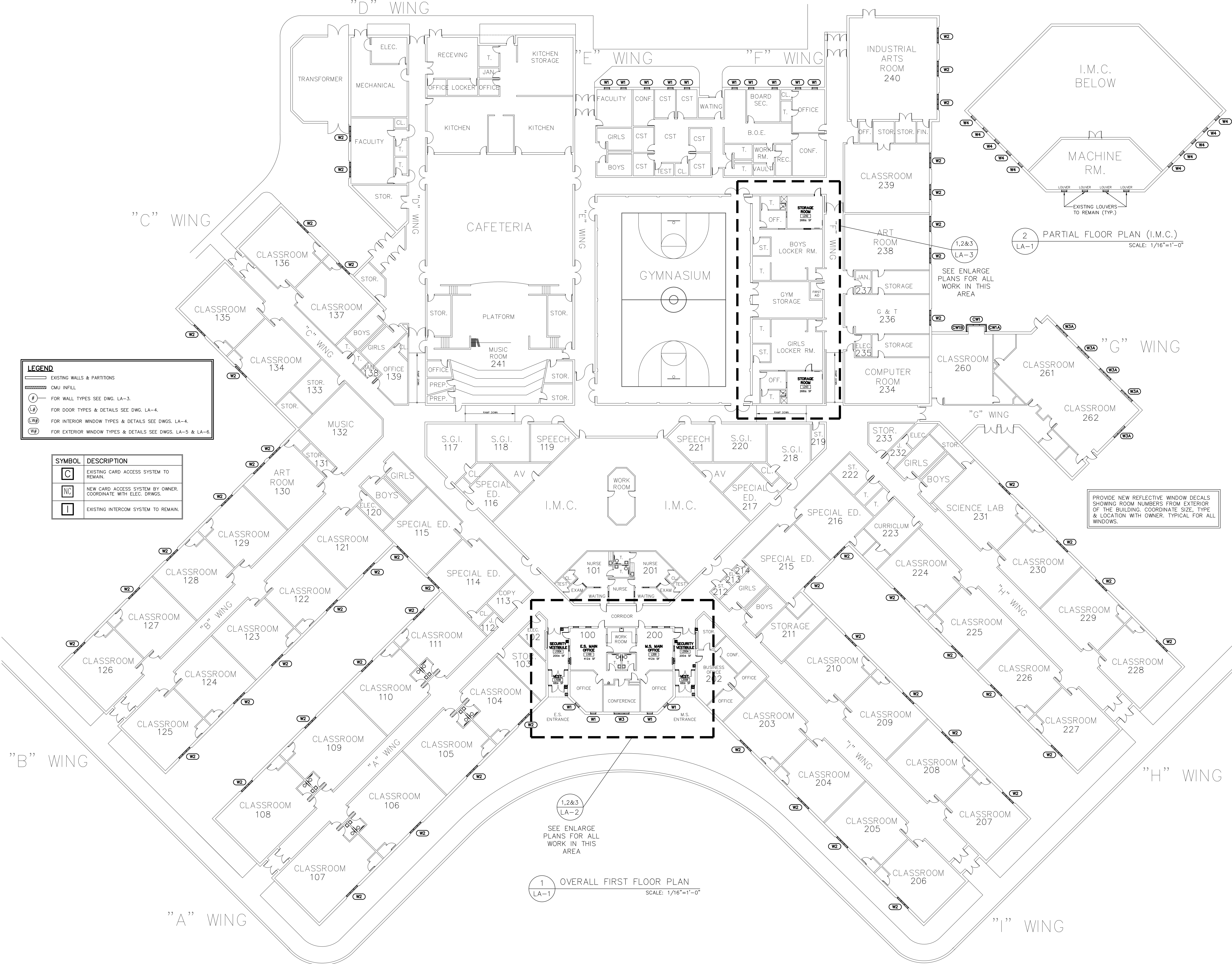
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No.	INDEX OF DRAWINGS
	COVER SHEET & INDEX
<b>ARCHITECTURAL</b>	
LA-1	OVERALL FLOOR PLAN
LA-2	PARTIAL ENLARGED FLOOR PLANS
LA-3	PARTIAL ENLARGED FLOOR PLANS
LA-4	DOOR SCHEDULE & DETAILS
LA-5	WINDOW TYPES
LA-6	WINDOW DETAILS
<b>PLUMBING</b>	
LP-1	PLUMBING/FIRE PROTECTION DEMOLITION/NEW WORK PLAN
<b>ELECTRICAL</b>	
LE-1	ELECTRICAL PLAN
LE-2	ELECTRICAL PLAN
LE-3	ELECTRICAL NOTES & DETAILS





**LEGEND**

- EXISTING WALLS & PARTITIONS
- CMU INFILL
- FOR WALL TYPES SEE DWG. LA-3.
- FOR DOOR TYPES & DETAILS SEE DWG. LA-4.
- FOR INTERIOR WINDOW TYPES & DETAILS SEE DWGS. LA-4.
- FOR EXTERIOR WINDOW TYPES & DETAILS SEE DWGS. LA-5 & LA-6.

SYMBOL	DESCRIPTION
	EXISTING CARD ACCESS SYSTEM TO REMAIN.
	NEW CARD ACCESS SYSTEM BY OWNER. COORDINATE WITH ELEC. DRWGS.
	EXISTING INTERCOM SYSTEM TO REMAIN.

1 OVERALL FIRST FLOOR PLAN  
LA-1  
SCALE: 1/16"=1'-0"

2 PARTIAL FLOOR PLAN (I.M.C.)  
LA-1  
SCALE: 1/16"=1'-0"

PROVIDE NEW REFLECTIVE WINDOW DECALS SHOWING ROOM NUMBERS FROM EXTERIOR OF THE BUILDING. COORDINATE SIZE, TYPE & LOCATION WITH OWNER. TYPICAL FOR ALL WINDOWS.

**LOGAN ELEMENTARY SCHOOL/MIDDLE SCHOOL  
NEW SECURITY VESTIBULES AND WINDOW REPLACEMENT**

110 SCHOOL LANE  
LOGAN TOWNSHIP, NEW JERSEY 08065



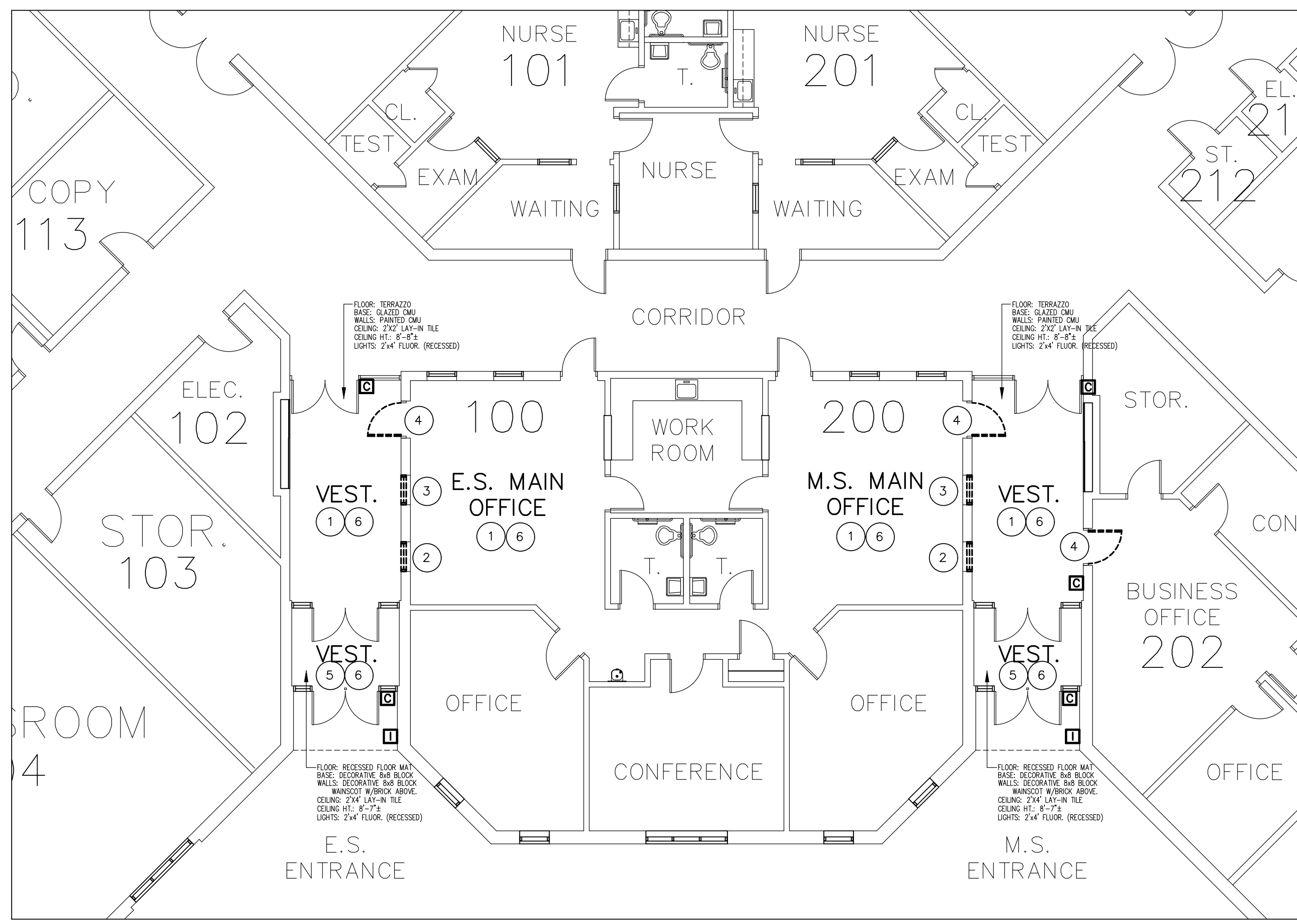
**REVISIONS**

a.	e.
b.	f.
c.	g.

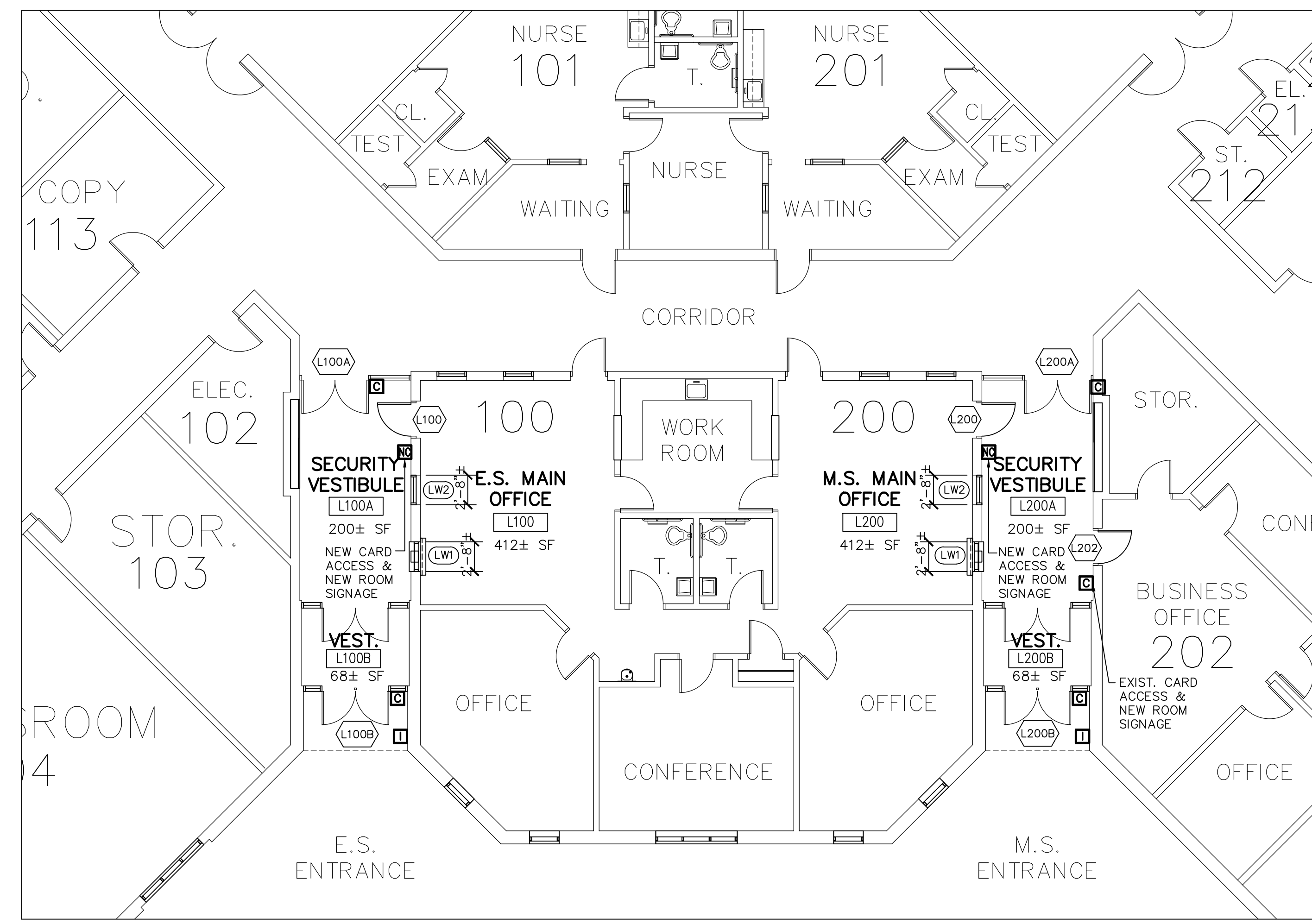
Project No. 19-18L  
Date: 05/13/19  
Scale: AS NOTED

**OVERALL FLOOR PLAN (ELEM+MS)  
LA-1**

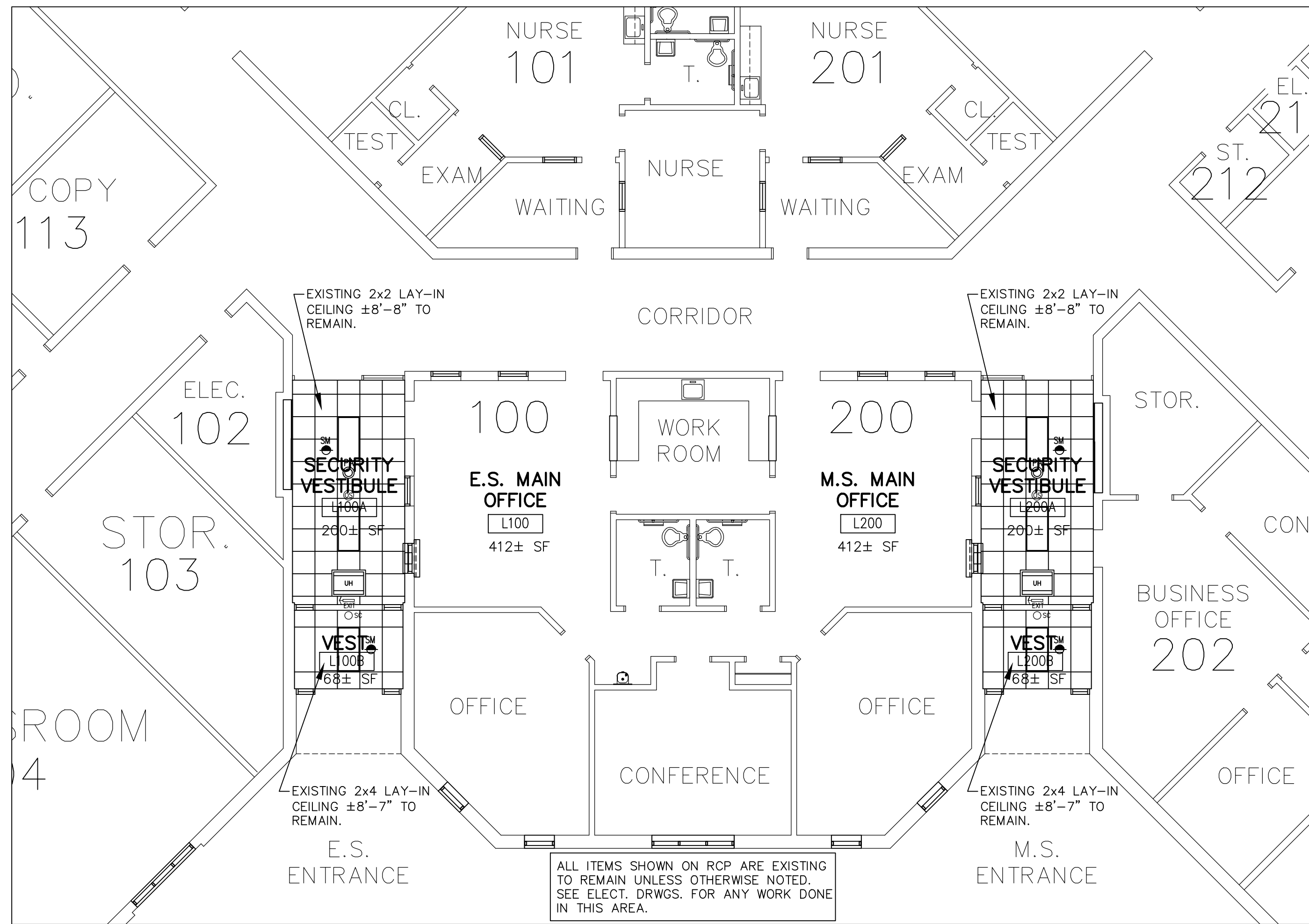




1 PARTIAL DEMOLITION FLOOR PLAN  
LA-2 SCALE: 1/8"=1'-0"



2 PARTIAL PROPOSED FLOOR PLAN  
LA-2 SCALE: 1/8"=1'-0"



3 PARTIAL EXISTING REFLECTED CEILING PLAN  
LA-2 SCALE: 1/8"=1'-0"

LEGEND	
	EXISTING WALLS & PARTITIONS
	CMU INFILL
	FOR WALL TYPES SEE DWG. LA-3.
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SYMBOL	DESCRIPTION
	EXISTING CARD ACCESS SYSTEM TO REMAIN.
	NEW CARD ACCESS SYSTEM BY OWNER. COORDINATE WITH ELEC. DRWGS.
	EXISTING INTERCOM SYSTEM TO REMAIN.

NOTE:  
DURING CONSTRUCTION/RENOVATION, IF ASBESTOS IS DETECTED, THE CONTRACTOR SHALL NOTIFY THE SCHOOL DISTRICT'S ASBESTOS CONSULTANT TO VERIFY ALL MATERIAL WHERE ASBESTOS MAY BE PRESENT. IT SHALL BE REMOVED BY ASBESTOS ABATEMENT CONTRACTOR. IT SHALL BE ABATED AS CHANGE ORDER WORK. ALL IDENTIFICATION TO BE DONE WITHIN 45 DAYS OF NOTICE TO PROCEED SO THIS CONTRACTOR'S WORK WILL NOT BE AFFECTED.

LEGEND	
	EXISTING TO REMAIN
	EXISTING TO REMOVED

NOTE:  
AFTER THE REMOVAL OF ANY WALL MOUNTED ITEMS IN A RENOVATED SPACE, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO FILL ANY VOIDS OR HOLES IN THE WALLS TO A SMOOTH & LEVEL FINISH w/MATERIALS TO MATCH ADJACENT. IF ADJACENT AREA IS MASONRY, SCORE PATCHED AREA TO MATCH EXISTING COURSING. SEE ROOM FINISH SCHEDULE FOR FINISHES.

GENERAL DEMOLITION/ RENOVATION NOTES:

THE GENERAL CONTRACTOR SHALL REMOVE ALL ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO LOCKERS, DOORS AND FRAMES, WINDOWS AND FRAMES, CEILING SYSTEM, PARTITIONS, CARPET, STOREFRONT WINDOW SYSTEM, GUARDRAILS, HANDRAILS, TACK STRIPS, SHELVING/ CASEWORK AND TOILET PARTITIONS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE ARCHITECT FOR FURTHER CLARIFICATIONS.

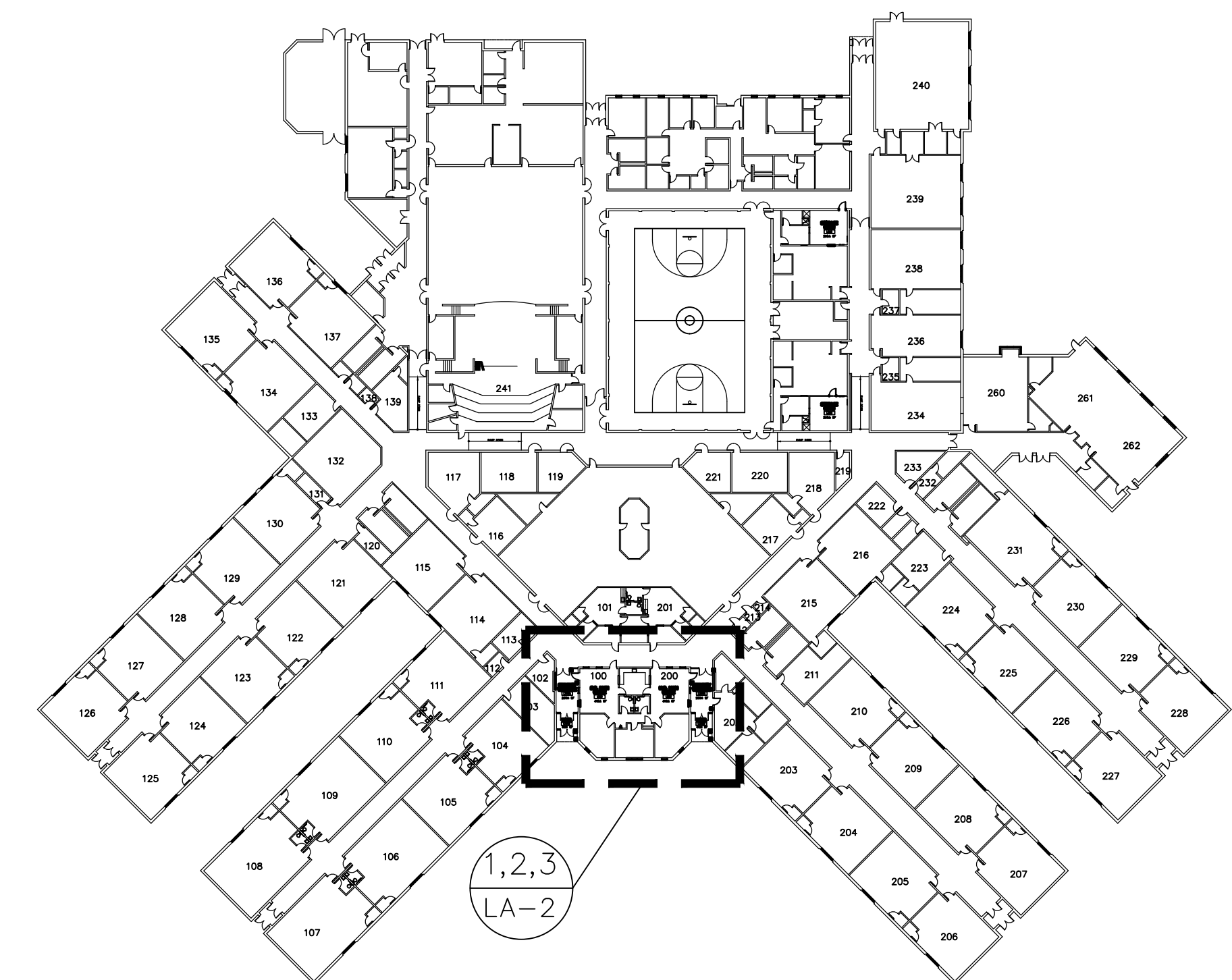
THE PLUMBING CONTRACTOR SHALL DISCONNECT AND CAP ALL PLUMBING ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO WATER CLOSETS, LAVATORIES, DRINKING FOUNTAINS, SHOWERS AND CONTROLS, SUPPLY LINES FOR HOT AND COLD WATER, EYE WASH STATIONS, WASH BASINS, LIMITED SPRINKLER SYSTEM AND AIR COMPRESSOR SUPPLY LINES. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE PLUMBING ENGINEER FOR FURTHER CLARIFICATIONS.

THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND CAP ALL ELECTRICAL ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO LIGHT FIXTURES, SWITCHES, WALL OUTLETS, WIRING/ CONDUIT AND TELEPHONE SYSTEMS, REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE ELECTRICAL ENGINEER FOR FURTHER CLARIFICATIONS.

THE H.V.A.C. CONTRACTOR SHALL DISCONNECT AND CAP ALL H.V.A.C. ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO UNIT VENTILATORS, THERMOSTATS, COOLING AND HEATING PIPES AND VALVE CONTROLS. THE H.V.A.C. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE H.V.A.C. ENGINEER FOR FURTHER CLARIFICATIONS.

ALL REMOVED ITEMS, IF REQUIRED TO BE SALVAGED BY OWNER, SHALL BE REMOVED BY OWNER BEFORE DEMOLITION WORK STARTS.

- EXISTING FLOOR FINISH TO REMAIN. PROTECT DURING RENOVATION/CONSTRUCTION.
- REMOVE EXISTING WINDOW SYSTEM IN ITS ENTIRETY. MODIFY EXISTING OPENING. REMOVE ONE COURSE OF MASONRY AT SILL TO ACHIEVE 2"-8" SILL HEIGHT FOR NEW TRANSECTION WINDOW. INFILL ANY VOIDS OR HOLES IN MASONRY TO A SMOOTH FINISH w/MATERIALS TO MATCH ADJACENT. PRIME & REPAINT PER MANUFACTURER'S SPECIFICATIONS. SEE FLOOR PLAN FOR NEW LAYOUT.
- REMOVE EXISTING WINDOW SYSTEM IN ITS ENTIRETY. EXISTING OPENING TO REMAIN. INFILL ANY VOIDS OR HOLES IN MASONRY TO A SMOOTH FINISH w/MATERIALS TO MATCH ADJACENT. PRIME & REPAINT PER MANUFACTURER'S SPECIFICATIONS. SEE FLOOR PLAN FOR NEW LAYOUT.
- REMOVE EXISTING DOOR & ASSOCIATED HARDWARE. TURN OVER HARDWARE TO OWNER. EXISTING FRAME TO REMAIN AND SHALL BE PREPARED TO RECEIVE NEW DOOR (SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION).
- EXISTING RECESSED FLOOR MAT OVER CONCRETE FLOOR TO REMAIN.
- EXISTING LAY-IN CEILING ASSEMBLY & EXISTING LIGHTING TO REMAIN.
- CUT NEW OPENING IN EXISTING CMU WALL FOR NEW DOOR & FRAME. SHORE UP WALL BEFORE CUTTING. PROVIDE PRECAST LINTELS AS REQUIRED FOR SUPPORT. PROTECT ADJACENT SURFACES. PATCH AND PAINT ANY AREAS DAMAGED BY RENOVATION. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING 6 PERSON COLUMN SHOWER & CAP EXISTING PLUMBING LINES & DRAIN. PATCH EXISTING CERAMIC TILE FLOOR & GYPSUM BD. CEILING TO MATCH EXISTING, TYP.
- EXISTING GYPSUM BD. CEILING ASSEMBLY & EXISTING LIGHTING TO REMAIN.
- EXISTING CERAMIC TILES WALLS TO REMAIN. PROTECT DURING RENOVATION/CONSTRUCTION.
- REMOVE EXISTING MARBLE THRESHOLD & PREP EXISTING OPENING FOR CMU INFILL, TYP.
- REMOVE EXISTING SHOWER HEAD, KNOBS, GRAB BARS, SEAT, ETC. COVER WITH S.S. COVER PLATES. CAP EXISTING PLUMBING LINES & FLOOR DRAIN. PATCH EXISTING FLOOR TO MATCH EXISTING, TYP.



KEY PLAN  
SCALE: NTS

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NEW SECURITY VESTIBULES AND WINDOW REPLACEMENT

110 SCHOOL LANE  
LOGAN TOWNSHIP, NEW JERSEY 08085

REVISIONS	
a.	e.
b.	f.
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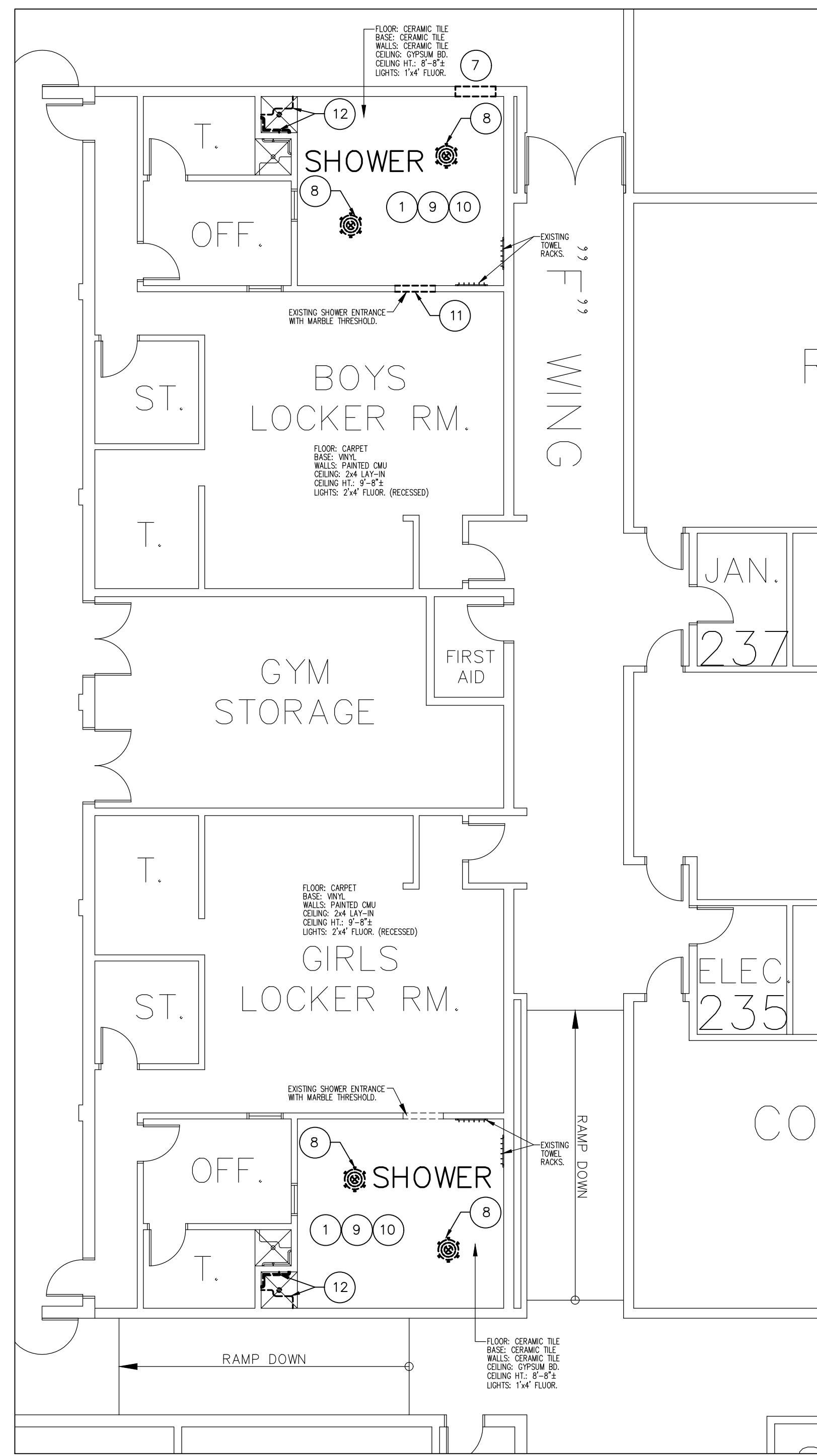
Project No. 19-18L  
Date: 05/13/19  
Scale: 1/8"=1'-0"

PARTIAL  
FLOOR PLANS

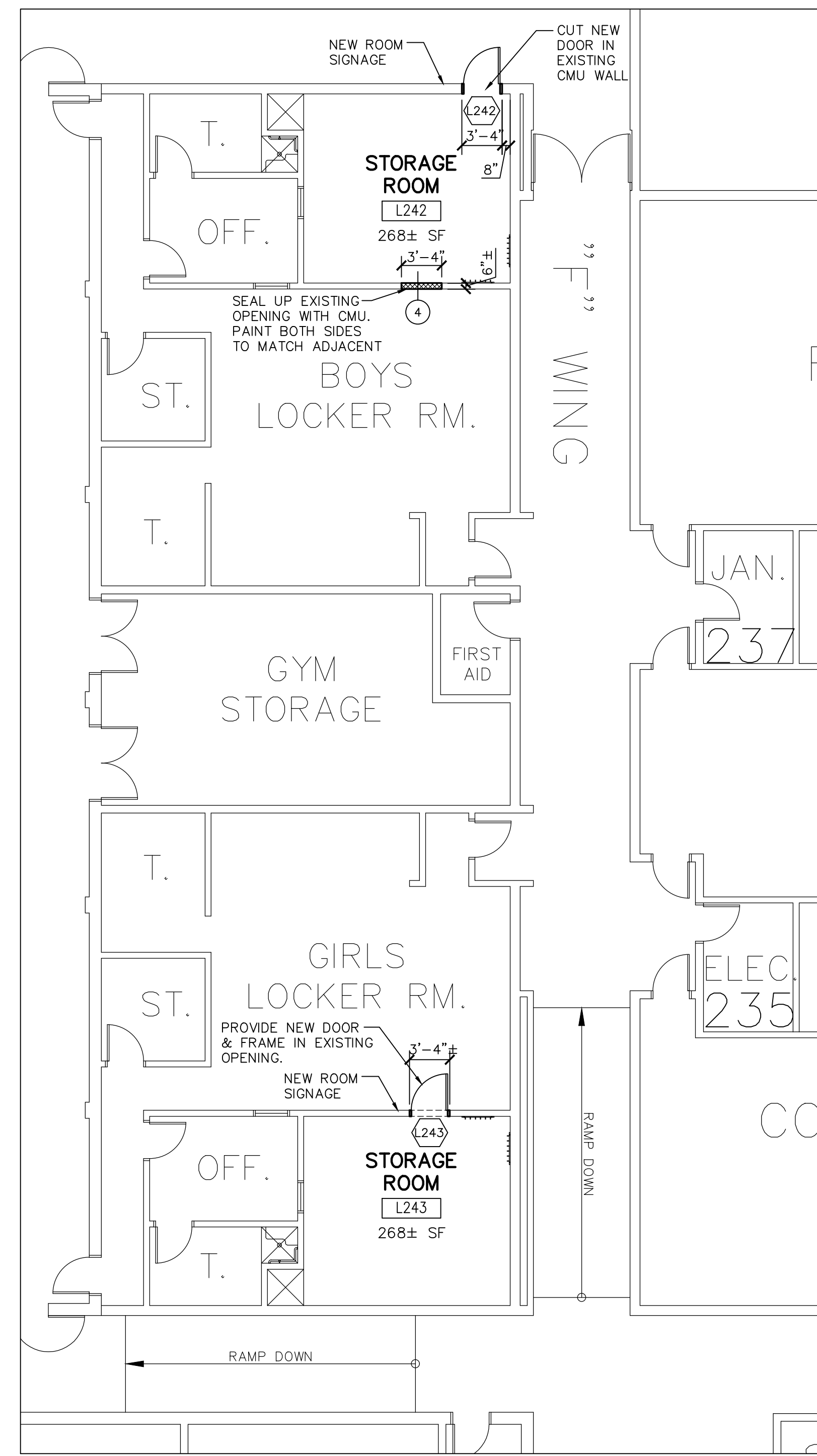
LA-2

ISSUED FOR BID: 05-13-2019

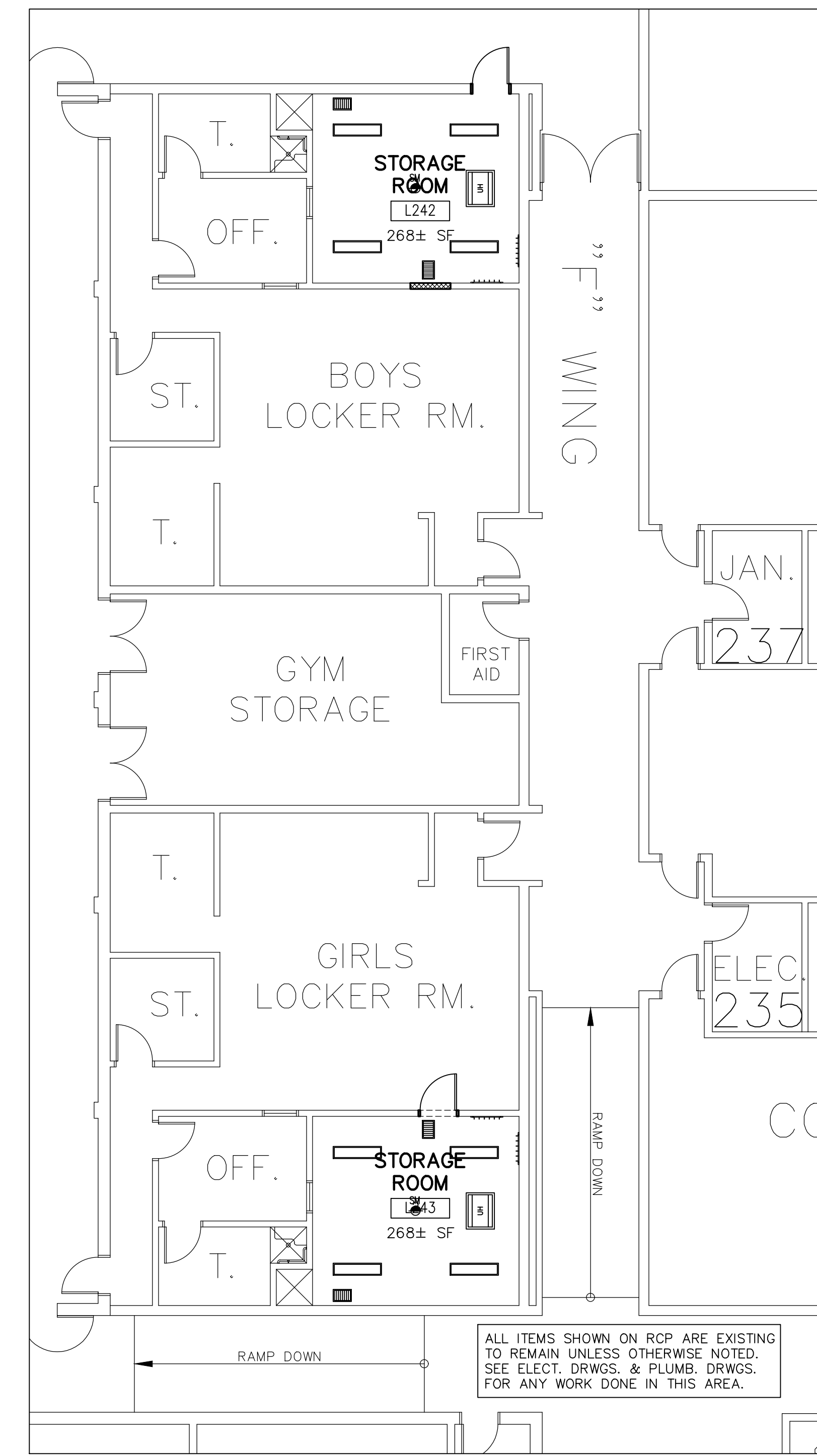




1 PARTIAL DEMOLITION FLOOR PLAN  
LA-3 SCALE: 1/8"=1'-0"



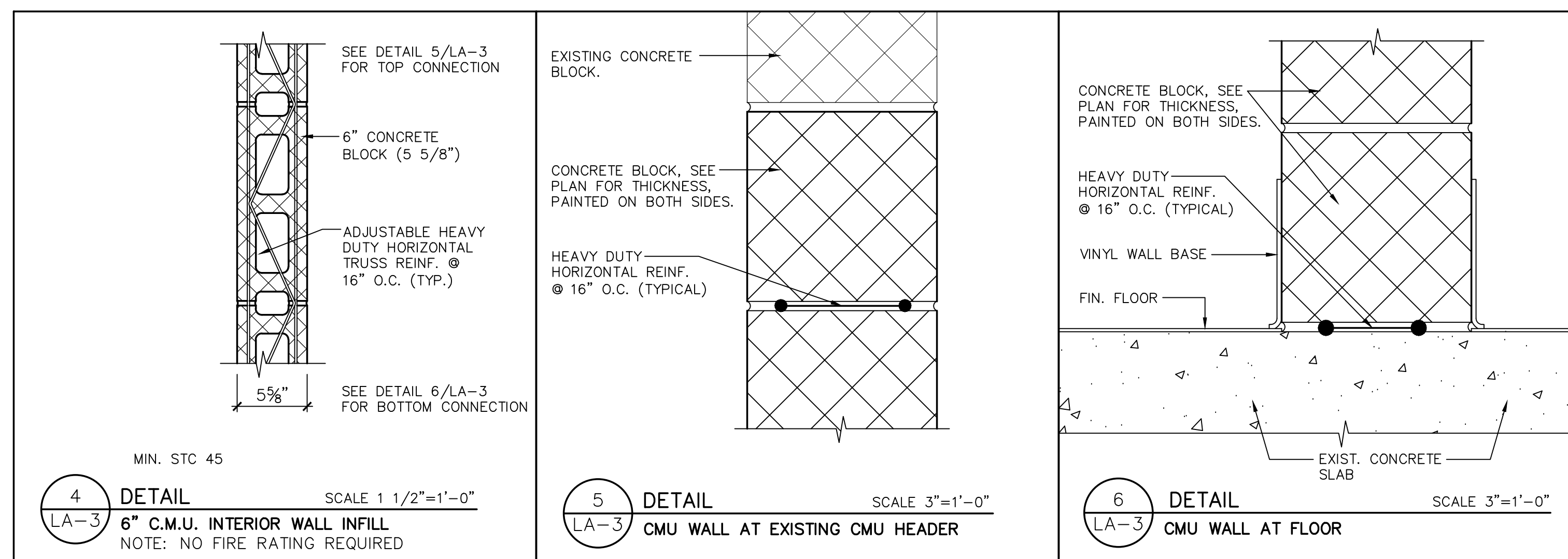
2 PARTIAL PROPOSED FLOOR PLAN  
LA-3 SCALE: 1/8"=1'-0"



3 PARTIAL EXISTING REFLECTED CEILING PLAN  
LA-3 SCALE: 1/8"=1'-0"

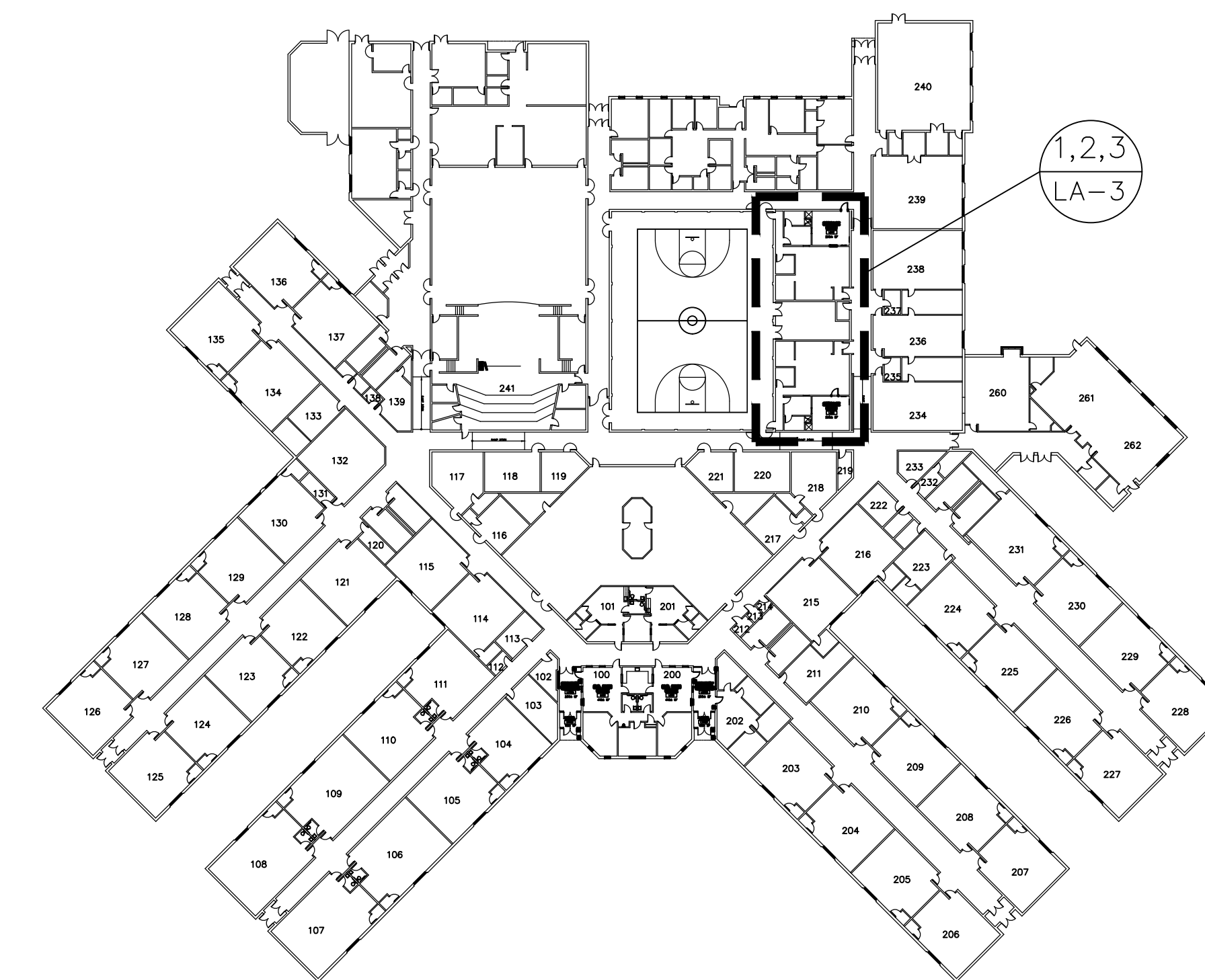
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SYMBOL	DESCRIPTION
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GENERAL DEMOLITION/ RENOVATION NOTES:

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KEY PLAN  
SCALE: NTS

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NEW SECURITY VESTIBULES AND WINDOW REPLACEMENT

110 SCHOOL LANE  
LOGAN TOWNSHIP, NEW JERSEY 08085

REVISIONS

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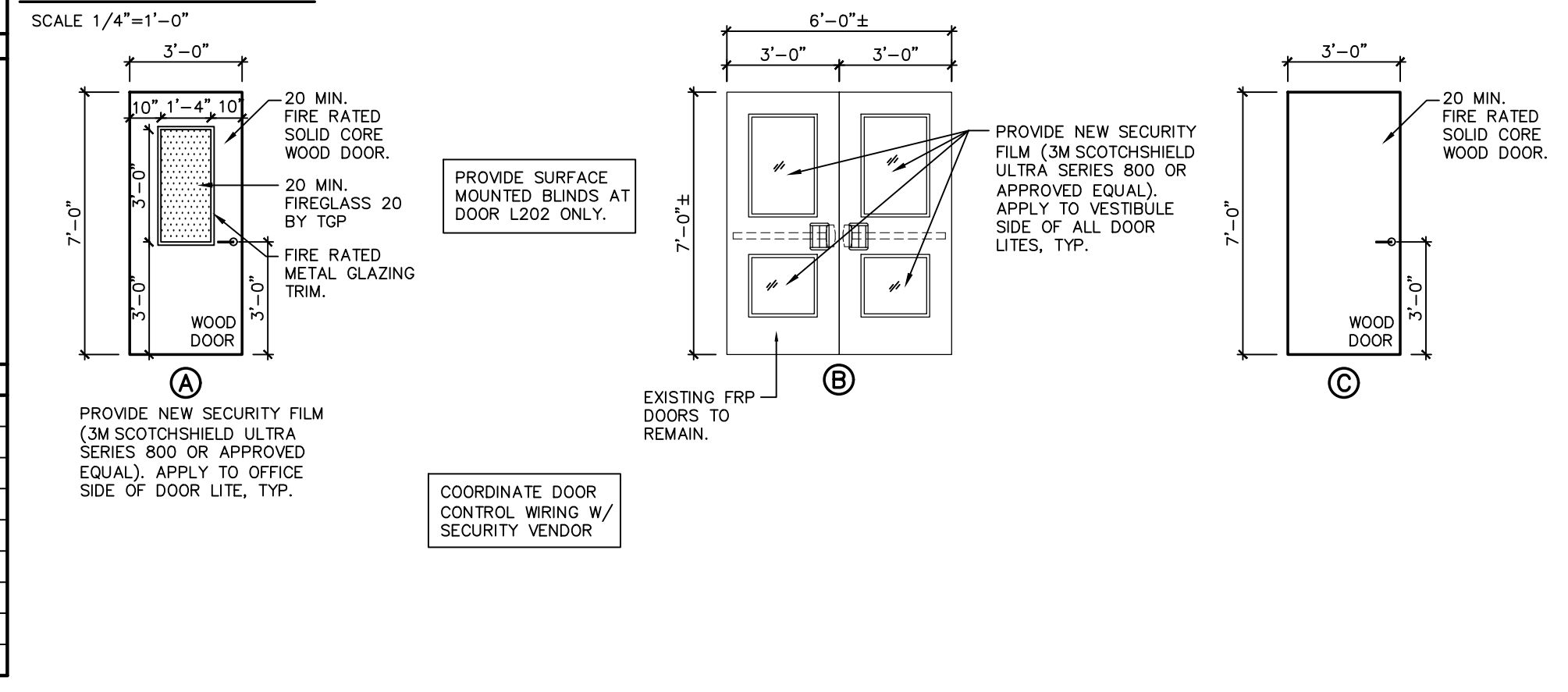
PARTIAL FLOOR PLANS

LA-3



DOOR AND FRAME SCHEDULE																																							
DR. NO.	FROM ROOM NO.	TO ROOM NO.	TYPE APPROX. ROOM	DOOR				HARDWARE SET NO.	FRAME				REMARKS																										
				SIZE	MATERIAL	GAGE	TYPE		MATERIAL	GAGE	DEPTH	TYPE	HEAD	JAMB	SILL	FINISH	GLASS	UL CLASSIFICATION	MANUFACTURER	FINISH	NOTES																		
L100	E.S. MAIN OFFICE	SECURITY VEST.	E.S. MAIN OFFICE	3'-0" x 7'-0"	WOOD		A	RATED	1/4"	16x36		001-L	HM		1	1	2	3	20	NEW SOLID CORE WOOD DOOR (SEE GENERAL NOTE #1)																			
L100A	CORRIDOR	SECURITY VEST.	SECURITY VESTIBULE	2'3"-0" x 7'-0"	FRP		B					002-L	ALUM.		2					EXISTING HOLLOW METAL FRAME TO REMAIN. PROVIDE NEW SECURITY FILM (3M SCOTCHSHIELD ULTRA SERIES 800 OR APPROVED EQUAL). APPLY TO VESTIBULE SIDE OF ALL DOOR LITES, TYP.																			
L200	U.S. MAIN OFFICE	SECURITY VEST.	U.S. MAIN OFFICE	3'-0" x 7'-0"	WOOD		A	RATED	1/4"	16x36		001-L	HM		1	1	2	3	20	NEW SOLID CORE WOOD DOOR (SEE GENERAL NOTE #1)																			
L200A	CORRIDOR	SECURITY VEST.	SECURITY VESTIBULE	2'3"-0" x 7'-0"	FRP		B					002-L	ALUM.		2					EXISTING HOLLOW METAL FRAME TO REMAIN. PROVIDE NEW SECURITY FILM (3M SCOTCHSHIELD ULTRA SERIES 800 OR APPROVED EQUAL). APPLY TO VESTIBULE SIDE OF ALL DOOR LITES, TYP.																			
L200B	SECURITY VEST.	EXTERIOR	SECURITY VESTIBULE	2'3"-0" x 7'-0"	FRP		B					002-L	ALUM.		3					EXISTING HOLLOW METAL FRAME TO REMAIN. PROVIDE NEW SECURITY FILM (3M SCOTCHSHIELD ULTRA SERIES 800 OR APPROVED EQUAL). APPLY TO VESTIBULE SIDE OF ALL DOOR LITES, TYP.																			
L202	SECURITY VEST.	BUSINESS OFFICE	SECURITY VESTIBULE	3'-0" x 7'-0"	WOOD		A	RATED	1/4"	16x36		003-L	HM		1	4	5	6	20	NEW SOLID CORE WOOD DOOR (SEE GENERAL NOTE #1)																			
L242	STORAGE ROOM	CORRIDOR	STORAGE ROOM	3'-0" x 7'-0"	WOOD		C					004-L	HM	16	10	3/4"	4	7	8	9	20	NEW SOLID CORE WOOD DOOR (SEE GENERAL NOTE #1)																	
L243	STORAGE ROOM	GIRLS LOCKER RM	STORAGE ROOM	3'-0" x 7'-0"	WOOD		C					004-L	HM	16	6	3/4"	4	10	11	12	20	NEW SOLID CORE WOOD DOOR (SEE GENERAL NOTE #1)																	

DOOR TYPES:



GENERAL NOTES:

- CUT VISION PANEL OPENING INTO NEW DOORS & INSTALL FIRE RATED METAL GLAZING TRIM & FIRE RATED SAFETY GLAZING OR TEMPERED GLASS. TYPICAL FOR ALL DOORS W/ VISION PANEL. SEE DETAIL 19/LA-4.
- ALL GLAZING OPENINGS ON WOOD DOORS SHALL BE MIN. 5" TO ANY HARDWARE.
- NEW SOLID CORE WOOD DOORS. FINISH TO BE SELECTED BY OWNER. SEE DOOR SCHEDULE FOR RATING.
- ALL EXISTING HOLLOW METAL FRAMES THAT ARE TO REMAIN SHALL BE PATCHED (ALL HOLES, STRIKE PLATES & HINGES TO BE FILLED WITH SELF TAPPING STEEL SCREW & GROUND SMOOTH OR WELDED STEEL PLATE) & REPAINTED IN THEIR ENTIRETY. COLOR TO BE SELECTED BY ARCHITECT. CONTRACTOR MUST PROVIDE A FIRE RATED LABEL FOR ALL EXISTING HOLLOW METAL FRAMES THAT REQUIRE A LABEL CONTACT MIKE THORP AT GUARDIAN FIRE TESTING LABORATORIES (716-628-0538 DIRECT LINE OR 716-835-6880 MAIN OFFICE) OR APPROVED EQUAL. (SEE SCHEDULE FOR RATING) IF THE FRAME DOES NOT MEET THE REQUIRED FIRE RATING THEN IT MUST BE REPLACED.
- ALL DOOR HARDWARE TO BE A.D.A. COMPLIANT WITH ICC BARRIER FREE CODE IN CONJUNCTION WITH ICC/ANSI A117.1-2009.
- NEW HOLLOW METAL FRAME. FINISH TO BE SELECTED BY OWNER. SEE DOOR SCHEDULE FOR RATING.
- ALL DIMENSIONS OR SCALES SHOWN AS PLUS OR MINUS (+/-) ARE FOR INFORMATIONAL PURPOSES AND SHALL NOT BE TAKEN AS EXACT. CONTRACTOR SHALL FIELD VERIFY ALL OPENINGS.
- MODIFY OR REFURBISH AND PAINT ADJACENT SURFACES DAMAGED OR DISTURBED DURING RENOVATION. PROVIDE TRIM AS REQUIRED TO COVER SIGNS OF RENOVATION, TYP.
- EXISTING DOOR CONTACTS SHALL BE DISCONNECTED & THEN REATTACHED TO NEW DOORS.
- EXISTING CARD READERS & INTERCOM SYSTEMS SHALL BE RE-USED IN NEW DOORS. PROVIDE NEW WIRING AS REQUIRED. SEE HARDWARE SCHEDULE FOR NEW ELECTRIC STRIKES, ETC.

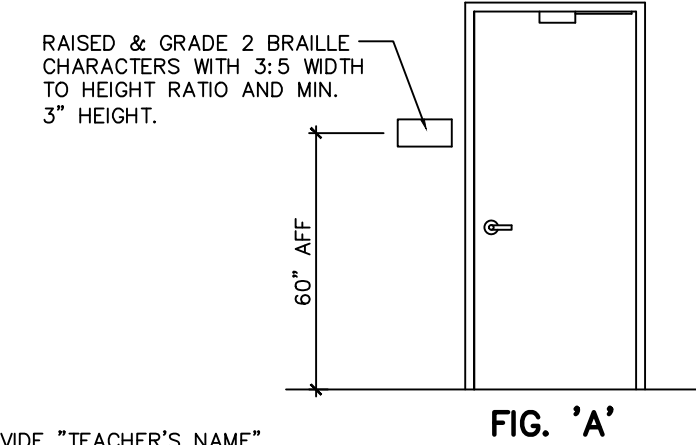
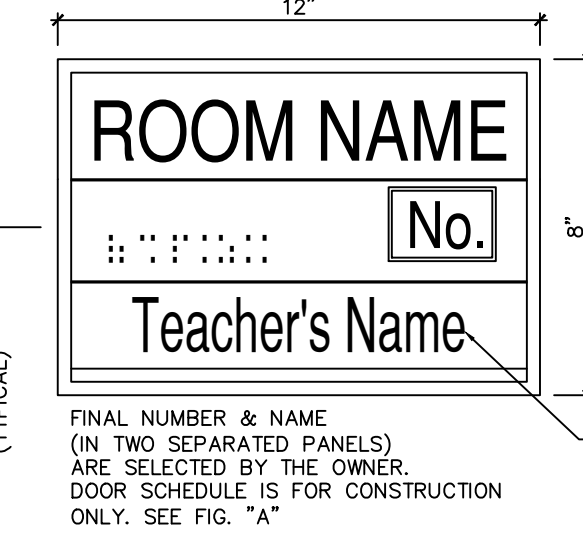
PROVIDE NEW ROOM SIGNAGE AT DOORS L100, L200, L202, L242 & L243.

**SIGNAGE:** ALL SIGNAGE SHALL COMPLY WITH CABO/ANSI A117.1 ALL INTERIOR DOORS ARE TO RECEIVE SIGNAGE

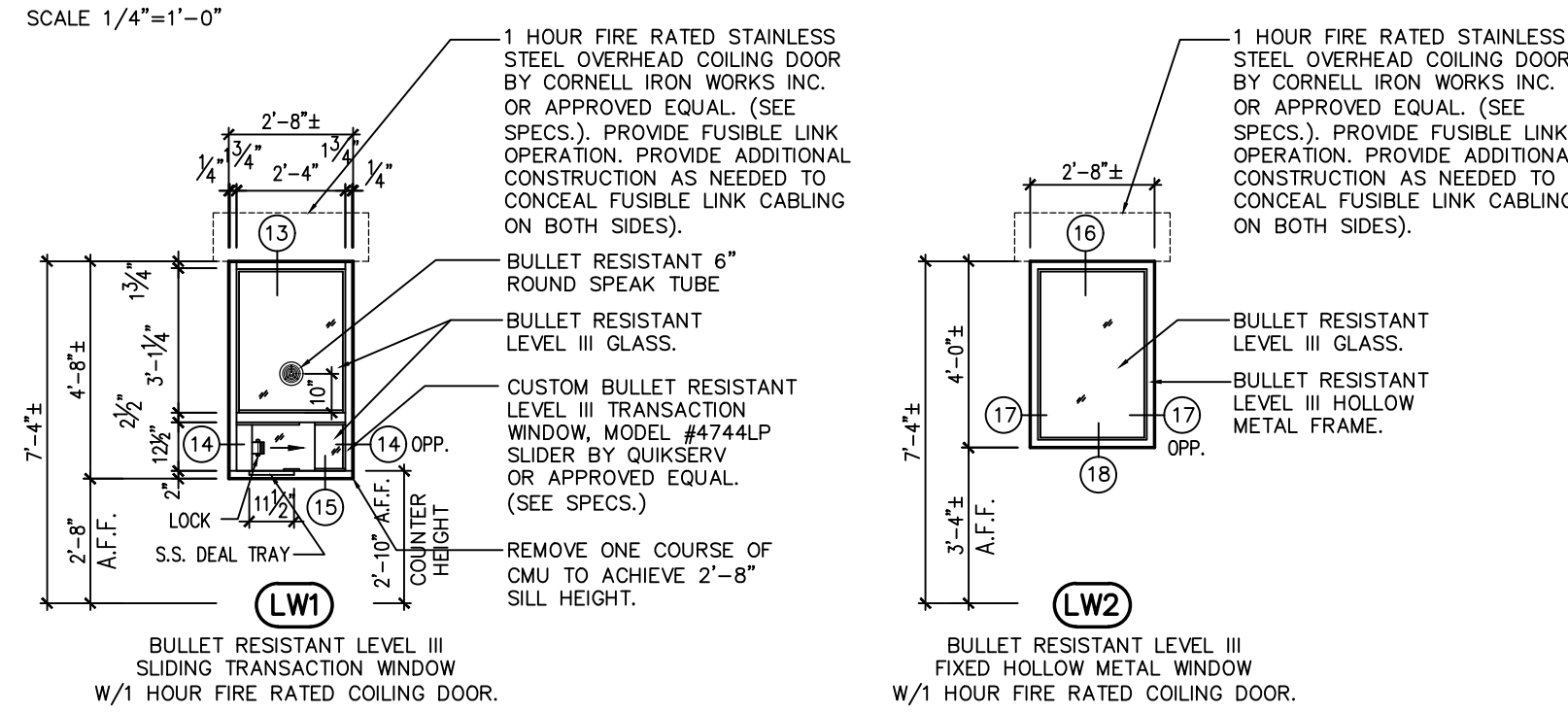
INSTALL PERMANENT SIGNS ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR AT MAX. 60" ABOVE FLOOR TO CENTER LINE OF SIGN. OVERHEAD SIGN SHALL BE INSTALLED AT 80" MIN. HEIGHT ABOVE FLOOR. SEE FIG. 0 & FIG. 8.

LETTERS AND NUMBERS SHALL HAVE WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1.

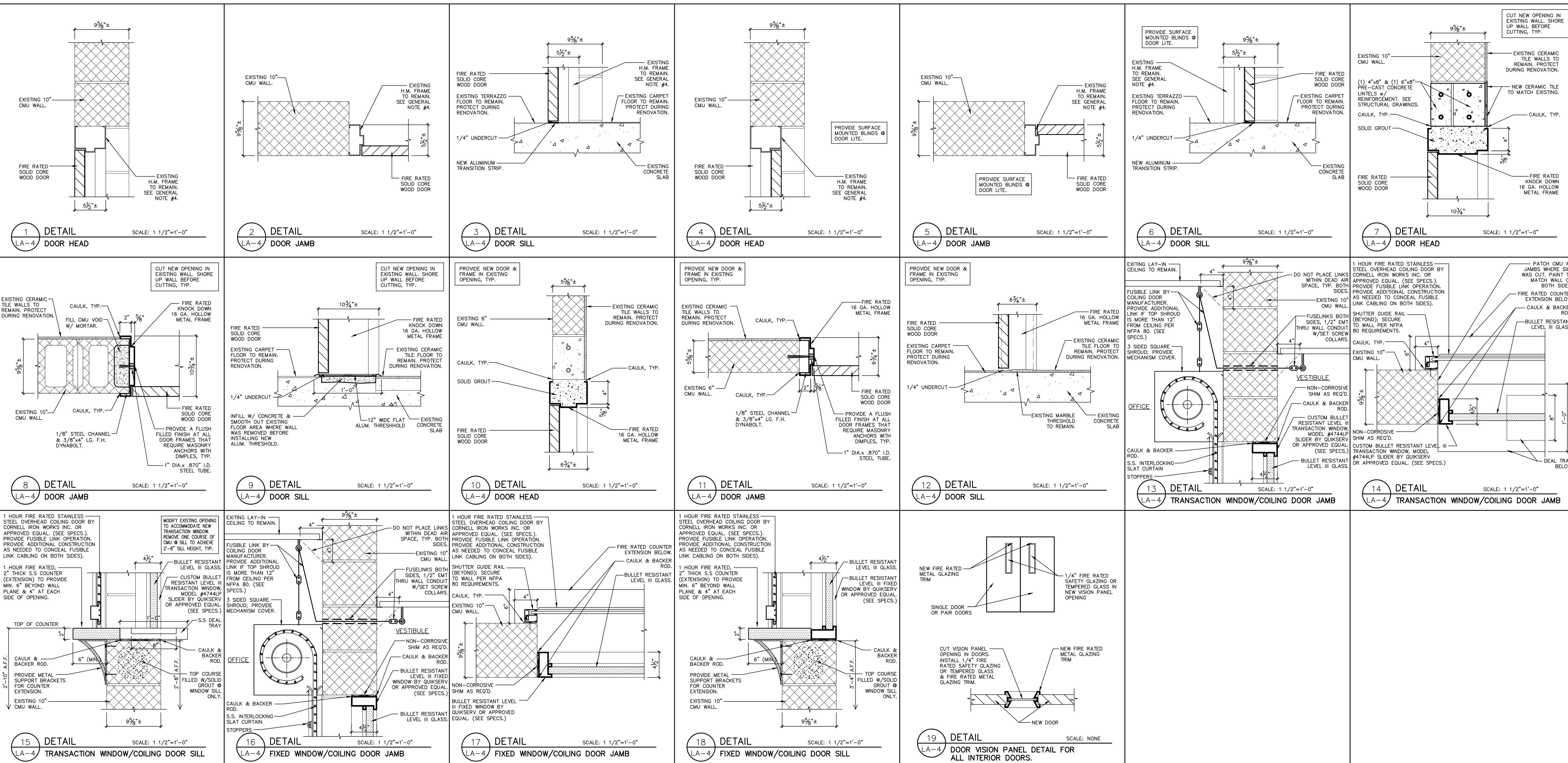
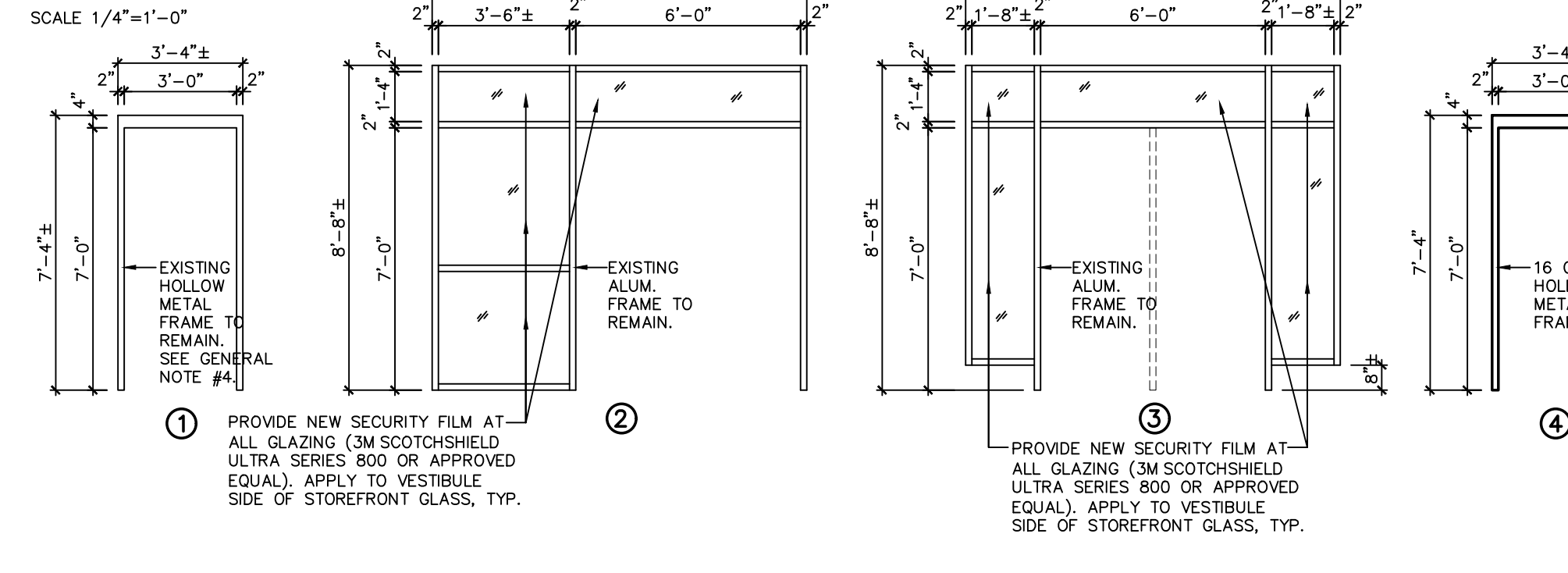
ALL LETTERS AND NUMBERS SHALL BE GRADE 2 BRAILLE. PROVIDE INTERNATIONAL SYMBOL FOR ACCESSIBILITY.



INTERIOR WINDOW TYPES:



FRAME TYPES:



Logan Elementary School/Middle School  
 New Security Vestibules and Window Replacement  
 10 School Lane  
 Logan Township, New Jersey 08065

GARNS Architects  
 715 CREEK ROAD, BELLSMAIR, NEW JERSEY 08031 (609) 396-6200

**REVISIONS**  
 a. e.  
 b. f.  
 c. g.

Project No: 19-18L  
 Date: 05/13/19  
 Scale: AS NOTED

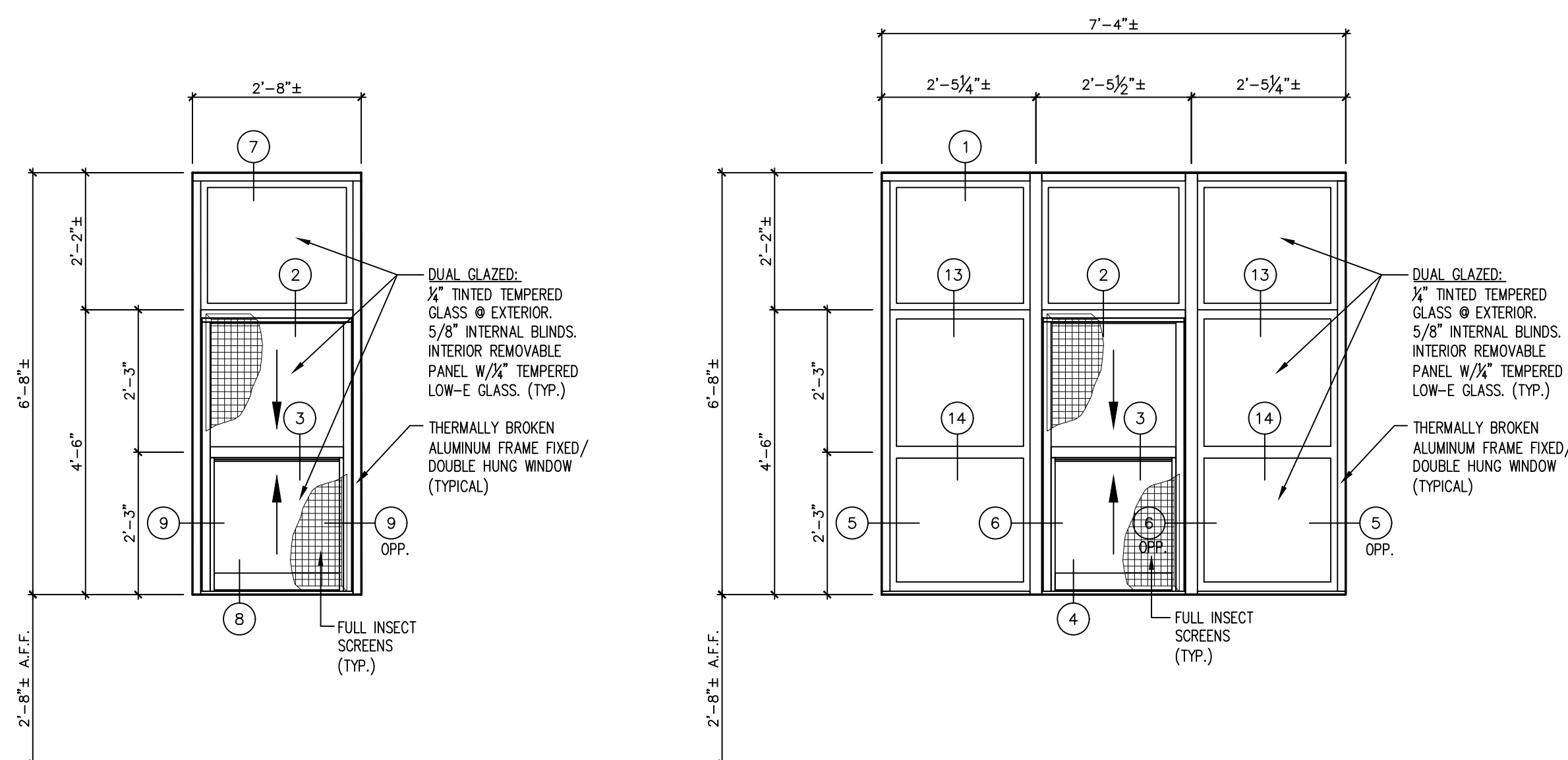
**DOOR SCHEDULE & DETAILS**  
**LA-4**

ISSUED FOR BID: 05-13-2019



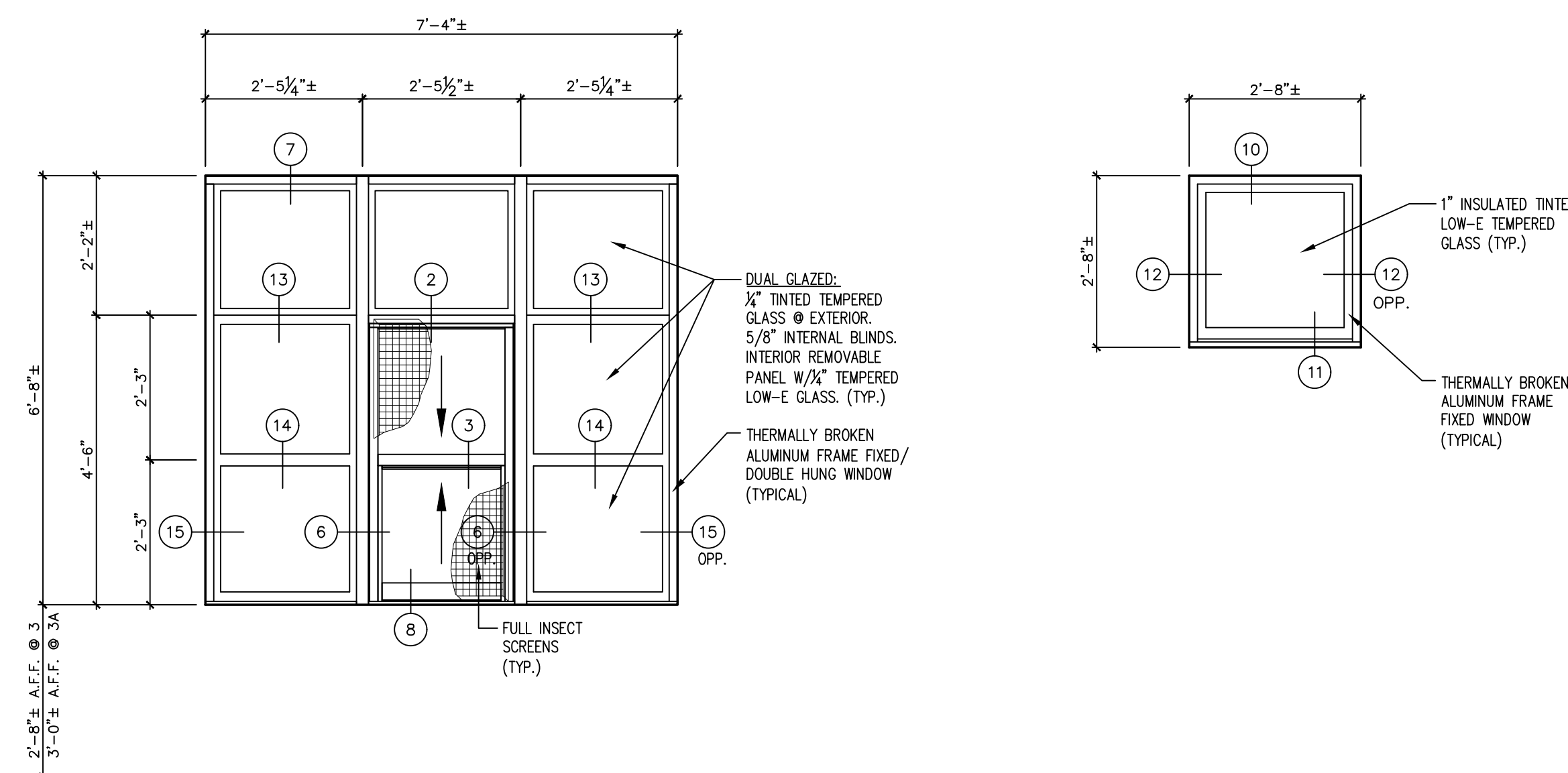
# EXTERIOR WINDOW TYPES:

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



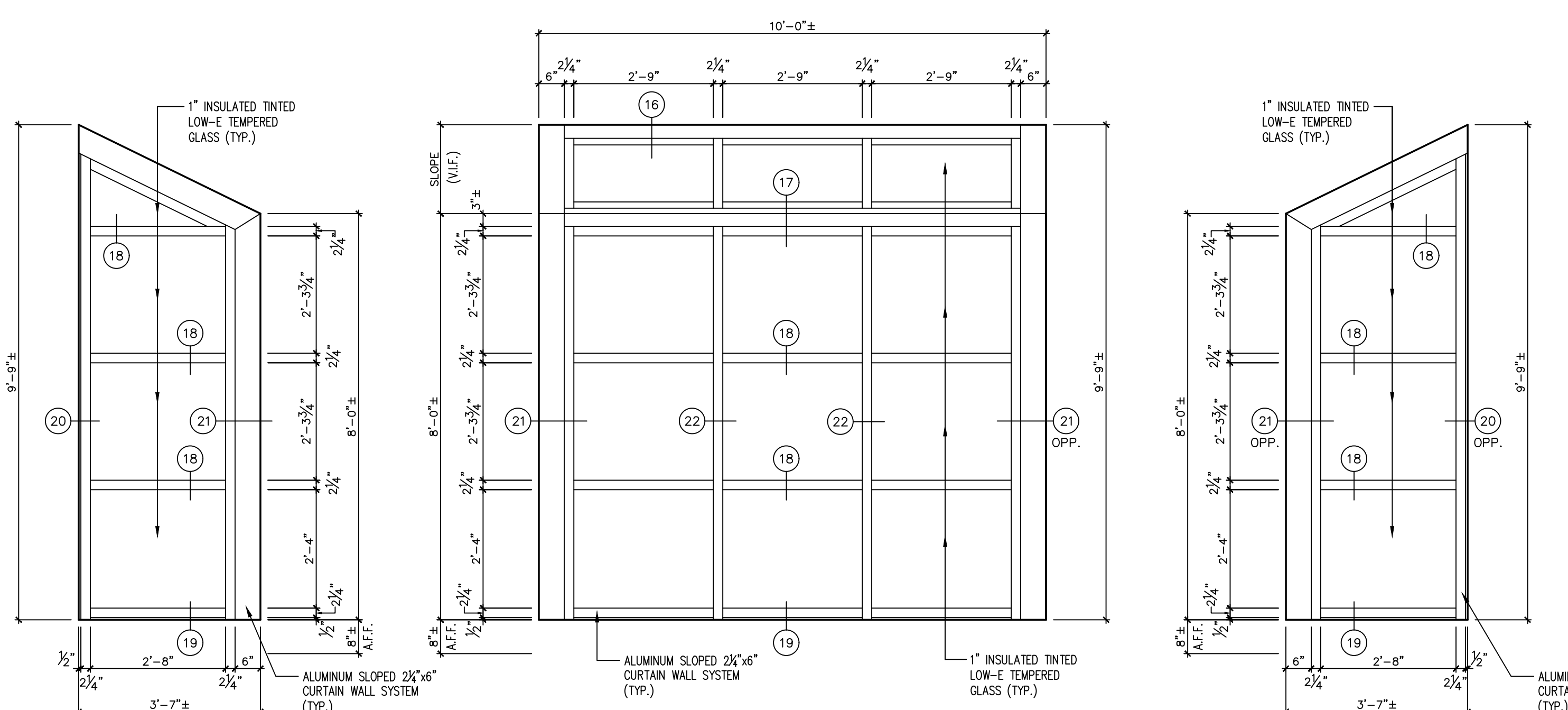
**W1 WINDOW TYPE**  
SCALE: 1/2"=1'-0"  
FIXED/DOUBLE HUNG

**W2 WINDOW TYPE**  
SCALE: 1/2"=1'-0"  
FIXED/DOUBLE HUNG



**W3 WINDOW TYPE**  
SCALE: 1/2"=1'-0"  
FIXED/DOUBLE HUNG

**W4 WINDOW TYPE**  
SCALE: 1/2"=1'-0"  
FIXED CLERESTORY @ I.M.C.



**CW1A WINDOW TYPE**  
SCALE: 1/2"=1'-0"  
SLOPED CURTAIN WALL SYSTEM

**CW1 WINDOW TYPE**  
SCALE: 1/2"=1'-0"  
SLOPED CURTAIN WALL SYSTEM

**CW1B WINDOW TYPE**  
SCALE: 1/2"=1'-0"  
SLOPED CURTAIN WALL SYSTEM

**GENERAL SCOPE OF WORK:**

- CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING WINDOWS, GLAZING, ASSOCIATED HARDWARE, TRIM AND ACCESSORIES COMPLETELY.
- INSTALL WINDOWS AND ACCESSORIES AS SPECIFIED AND INDICATED ON CONTRACT DOCUMENTS.
  - PROVIDE AND INSTALL ADDITIONAL PRESSURE TREATED WOOD BLOCKING/FRAMING AS REQUIRED TO PROPERLY ANCHOR NEW WINDOW SYSTEM. WHEN ALUMINUM SYSTEMS ARE IN DIRECT CONTACT WITH PRESSURE TREATED WOOD:
    - USE NON-CORROSIVE SHIMS BETWEEN THE ALUMINUM SYSTEM & THE TREATED WOOD.
    - USE ONLY STAINLESS STEEL FASTENERS, SEE SPECS.
    - DO NOT USE CA OR ACO TREATED LUMBER FOR WOOD BLOCKING.
  - PROVIDE AND INSTALL ADDITIONAL TRIM/CLOSURES AS NEEDED TO COVER SIGNS OF RENOVATION.
  - MODIFY OR REFURBISH ADJACENT SURFACES DAMAGED OR DISTURBED DURING RENOVATION.
- EXISTING THROUGH WINDOW MECHANICAL LOUVERS, FANS, DUCTWORK, A.C. UNITS, ETC. SHALL BE DISCONNECTED BY CONTRACTOR AND SALVAGED FOR INSTALLATION THROUGH NEW PANELS, (UNLESS INDICATED OTHERWISE). CONTRACTOR SHALL RE-USE EXISTING A.C. SUPPORT ANGLES (REPAINT). IF SUPPORT ANGLES ARE DAMAGED OR MISSING, CONTRACTOR SHALL PROVIDE NEW ALUM. 1/4" THICK SUPPORT ANGLES. CONTRACTOR MUST VERIFY EXISTING A.C. LOCATIONS & SIZES AND INDICATE ON SHOP DRAWINGS. TYPICAL. ANY EXISTING A.C. UNIT THAT IS NOT USED SHALL BE TURNED OVER TO OWNER.
- WORK SEQUENCE: WINDOW REPLACEMENT MUST OCCUR ON AN "OPENING BY OPENING" BASIS. WINDOWS AT EACH OPENING MUST BE COMPLETE, INCLUDING TRIM AND SEALANT PRIOR TO REMOVING EXISTING WINDOWS AT THE NEXT OPENING. THE SEQUENCE OF WORK MUST BE INCLUDED IN THE PROJECT SCHEDULE PROPOSED BY THE CONTRACTOR & SUBMITTED TO OWNER & ARCHITECT FOR APPROVAL.
- ALL CAULKING SHOULD BE SILICONE SEALANT. (SEE SPECIFICATIONS)
- PROVIDE A LIMIT DEVICE FOR ALL OPERABLE WINDOWS. (COORDINATE WITH OWNER)
- PROVIDE POLE-RING HARDWARE & POLES AT HIGH WINDOWS.
- NEW PROJECT IN VENTS MUST OPEN TO FULLEST EXTENT. CONTRACTOR SHALL FIELD VERIFY ANY OBSTRUCTION THAT MAY CAUSE VENTS NOT TO FULLY OPEN & COMPENSATE FOR THE OBSTRUCTION WITH JAMB EXTENDERS. (TYPICAL)
- IF NEW INTERIOR STOOLS ARE PROVIDED, CONTRACTOR MUST PROVIDE NEW WOOD BLOCKING FOR STOOLS TO BE SET UPON FOR PROPER ANCHORING & INSTALLATION.
- EXISTING SLATE STOOLS THAT ARE TO REMAIN SHALL BE PROTECTED FROM DAMAGE DUE TO REMOVAL OF EXISTING WINDOWS OR INSTALLATION OF NEW WINDOWS. ANY DAMAGED SLATE STOOLS SHALL BE REPLACED BY THE CONTRACTOR.
- ALL EXISTING EXPOSED STEEL LINTELS, BEAMS, COLUMNS, ETC. SHALL BE SCRAPPED, PRIMED & PAINTED PER SPECIFICATIONS AT BOTH INTERIOR & EXTERIOR OF WINDOW OPENING. IF STEEL LINTELS ARE RUSTED OR DAMAGED BEYOND REPAIR THEN THEY MUST BE REPLACED, TYP.

**GENERAL NOTES:**

- WINDOWS SHALL BE DESIGNED TO MEET IBC 2015 CODE REQUIREMENTS FOR WIND LOADS, SEE SPECIFICATIONS. CONTRACTOR TO SUBMIT SIGNED & SEALED, BY N.J. P.E., SHOP DRAWINGS, CALCULATIONS & FASTENING PATTERNS TYP.
- CONTRACTOR SHALL VISIT THE SITE AND BUILDING TO DETERMINE ACTUAL CONDITIONS AND QUANTITIES OF MATERIALS AND EXISTING ITEMS. NO COMPENSATION WILL BE ALLOWED FOR FAILURE TO DETERMINE ACTUAL FIELD CONDITIONS.
- CONTRACTOR SHALL VERIFY THE CONDITION OF ALL ITEMS WITHIN WORK AREA, AND NOTIFY OWNER OF ANY DAMAGE OR INOPERABLE ITEMS PRIOR TO COMMENCEMENT OR DEMOLITION AND/OR ALTERATION WORK.
- ALL NOTES ON DETAILS REFER TO NEW MATERIALS UNLESS NOTED AS EXISTING.
- CONTRACTOR SHALL REFURBISH OR REPLACE ANY DAMAGED OR DISTURBED ADJACENT SURFACES AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH OWNER.
- CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS CREATED BY HIS WORK FROM THE SITE AT CONTRACTOR'S EXPENSE.
- DIMENSIONS OR SCALES SHOWN AS PLUS OR MINUS (±) ARE FOR INFORMATIONAL PURPOSES AND SHALL NOT BE TAKEN AS EXACT. CONTRACTOR SHALL FIELD VERIFY ALL OPENINGS & QUANTITIES.
- ALL TOILET ROOMS, LOCKER ROOMS OR PRIVATE AREAS SHALL HAVE OBLSCURED GLAZING IN WINDOWS THAT FACE THE EXTERIOR, TYPICAL.
- PROVIDE NEW REFLECTIVE WINDOW DECALS SHOWING ROOM NUMBERS FROM EXTERIOR OF THE BUILDING. COORDINATE SIZE, TYPE & LOCATION WITH OWNER. TYPICAL FOR ALL WINDOWS.

**Garrison Architects**  
 Professional Corporation of Architects and Planners  
 715 CREEK ROAD, BELLMAR, NEW JERSEY 08031 (856) 396-5200

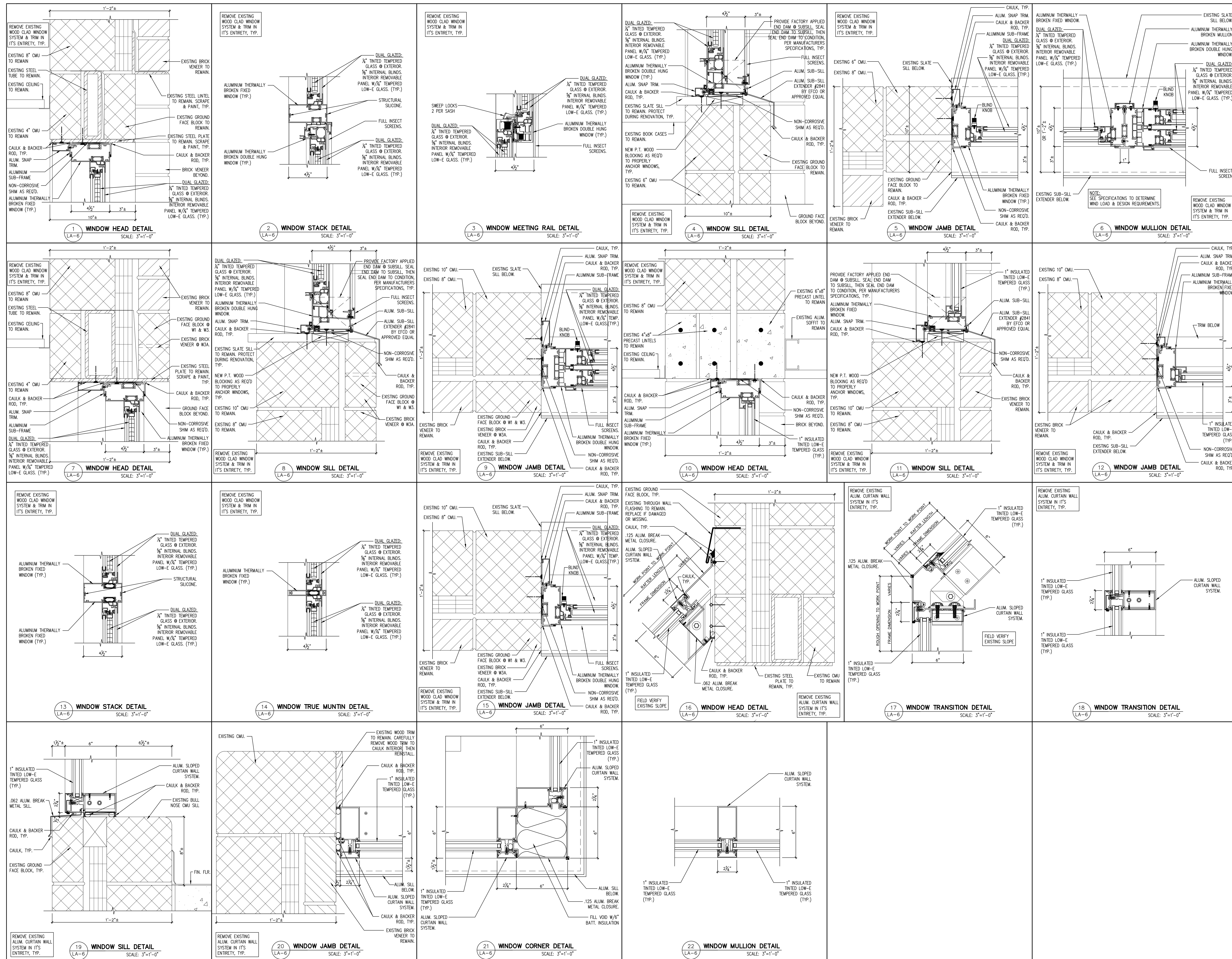
**LOGAN ELEMENTARY SCHOOL/MIDDLE SCHOOL**  
**NEW SECURITY VESTIBULES AND WINDOW REPLACEMENT**  
 110 SCHOOL LANE  
 LOGAN TOWNSHIP, NEW JERSEY 08085

REVISIONS  
 a. e.  
 b. f.  
 c. g.

Project No: 19-18L  
 Date: 05/13/19  
 Scale: AS NOTED  
**WINDOW TYPES**  
**LA-5**

ISSUED FOR BID: 05-13-2019





**GA** Architects  
713 CREEK ROAD, BELLMAR, NEW JERSEY 08031 (908) 396-5200

**LOGAN ELEMENTARY SCHOOL/MIDDLE SCHOOL  
NEW SECURITY VESTIBULES AND WINDOW REPLACEMENT**  
110 SCHOOL LANE  
LOGAN TOWNSHIP, NEW JERSEY 08085

**REVISIONS**

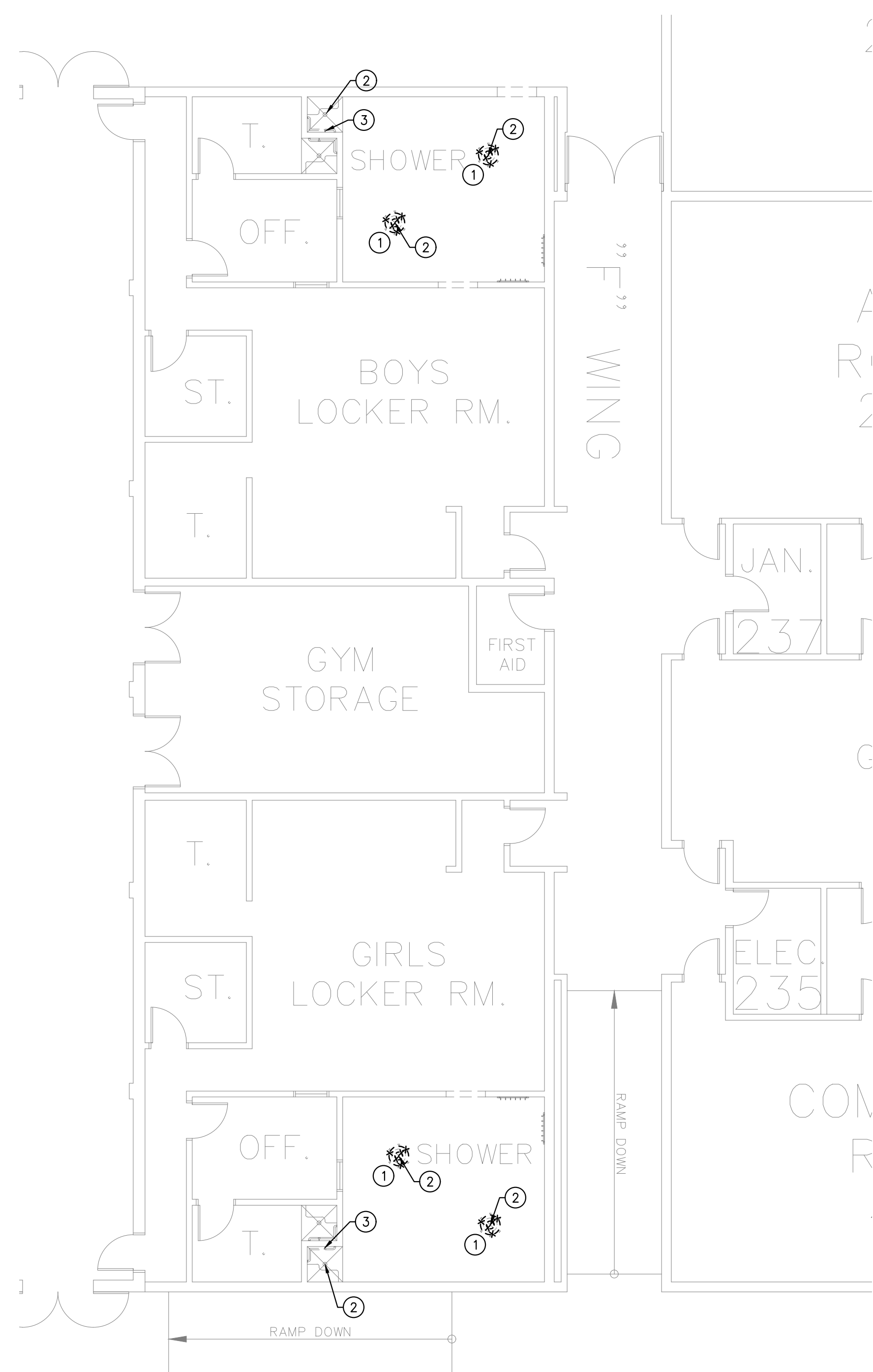
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Project No. 19-18L  
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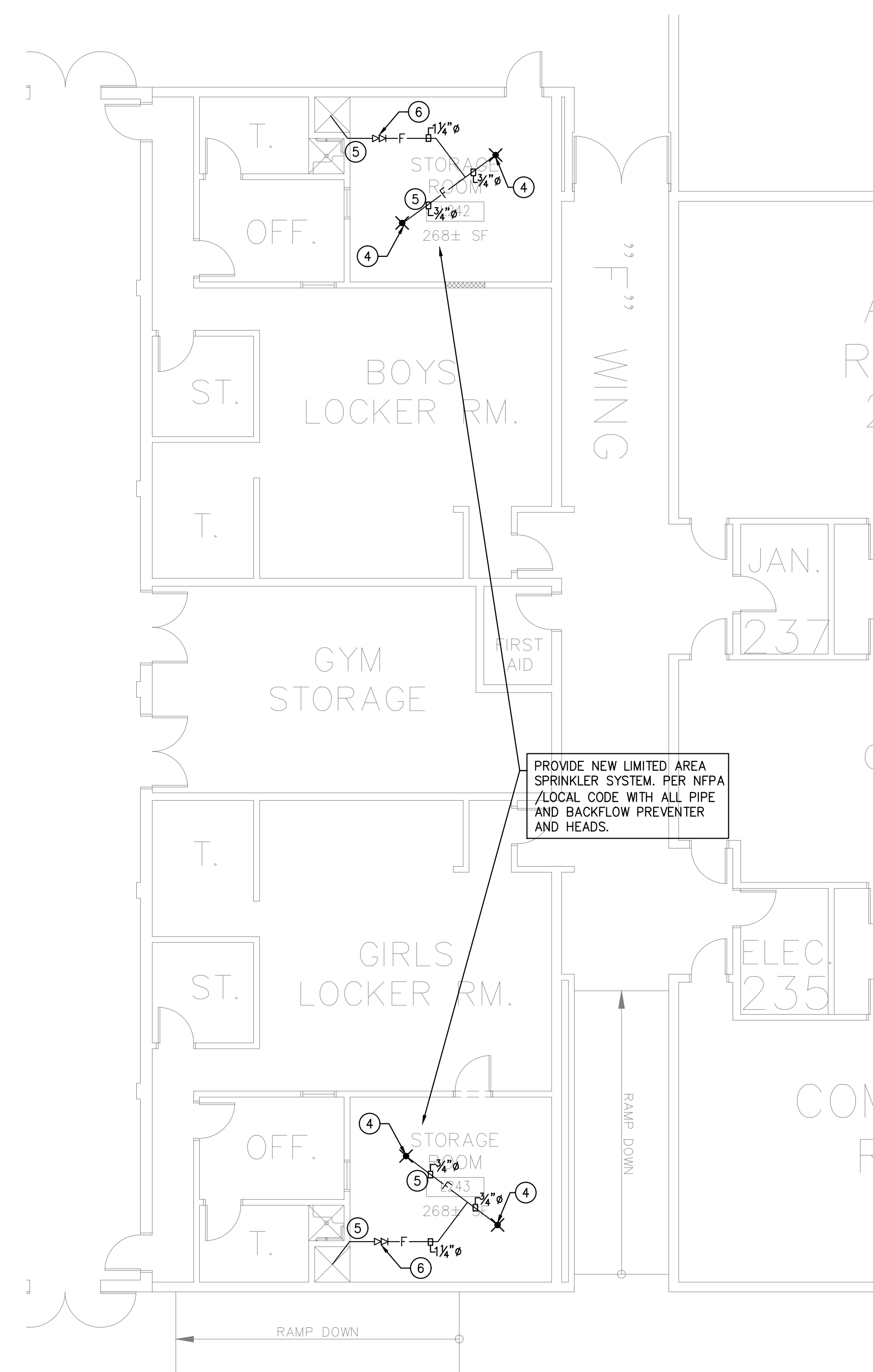
**WINDOW DETAILS**

**LA-6**





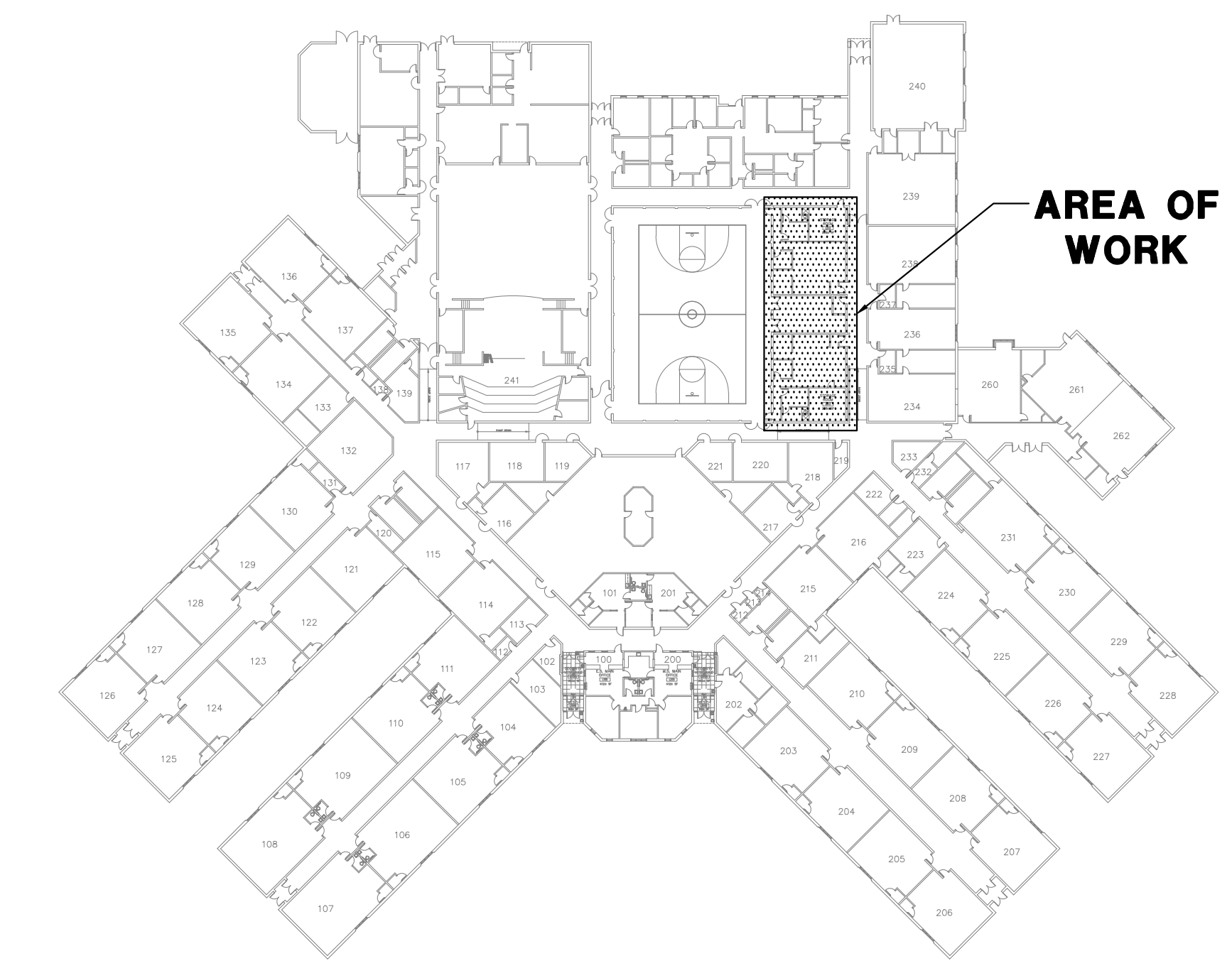
1 PARTIAL FIRE PROTECTION AND PLUMBING DEMOLITION PLAN  
LP-1 SCALE: 1/8" = 1'-0"



2 PARTIAL FIRE PROTECTION NEW WORK PLAN  
LP-1 SCALE: 1/8" = 1'-0"

PLUMBING LEGEND			
3CS	(3) COMPARTMENT SINK	—A—	COMPRESSED AIR
ACD	ACCESS DOOR	—C—	COLD WATER
AD	AREA DRAIN	—D—	DOMESTIC HOT WATER
BT	BATH TUB	—DH—	DOMESTIC HOT WATER RETURN
CO	CLEANOUT	—S—	SANITARY SEWER
DC	DENTAL CHAIR	—S—	STORM WATER
DN	DOWN	—V—	VENT PIPING
DF	DRINKING FOUNTAIN	—F—	FIRE PROTECTION PIPE
DSW	DISHWASHER	—VAC—	VACUUM PIPE
DSHWR	DISHWASHER	—DCA—	DENTAL COMPRESSED AIR
EWC	ELECTRIC WATER COOLER	—AR—	ACID RESISTANT PIPE
FH	FUME HOOD	—ARV—	ACID RESISTANT VENT
FPS	FOOD PREP SINK	—S—	SPRINKLER HEAD
FS	FLOOR SINK	—C—	CLEANOUT
GS	GREASE INTERCEPTOR	—FD—	FLOOR DRAIN
HCLS	HANDICAPPED LAB STATION/SINK	—GV—	GATE VALVE
HD	HUB DRAIN	—CV—	CHECK VALVE
HS	HAND SINK	—RV—	RELIEF VALVE
HTUB	HYDRO THERAPY TUB	—ATV—	AUTOMATIC THREE-WAY VALVE
HWS	HAIR WASH SINK	—GV—	GLOBE VALVE
IS	INSTRUCTORS TABLE/SINK	—PRV—	PRESSURE REDUCING VALVE
LAV	LAVATORY	—ATV—	AUTOMATIC TWO-WAY VALVE
LS	LAB STATION/SINK	—GC—	GAS COCK
MR	MOP RECEPTOR	—S—	STRAINER
MR	MOP RECEPTOR	—SC—	SIAMSESE CONNECTION
MH	MANHOLE	—U—	UNION
MV	MIXING VALVE	—T—	THERMOMETER
OI	OIL INTERCEPTOR	—PG—	PRESSURE GAUGE W/GAUGE COCK
PEDSK	PEDICURE SINK	—WH(HB)—	WALL HYDRANT (HOSE BIBB)
PS	PREP ROOM SINK	—PC—	POINT OF DEMOLITION
RWC	RAINWATER CONDUCTOR	—SA—	SHOCK ABSORBER
SHWR	SHOWER	—B—	BALANCING VALVE
SI	SAND INTERCEPTOR		
STK	STACK		
SS	SERVICE SINK		
UNO	UNLESS NOTED OTHERWISE		
UR	URINAL		
V	VENT		
VTR	VENT TO ROOF		
WC	WATER CLOSET		
WS	WASH STATION		

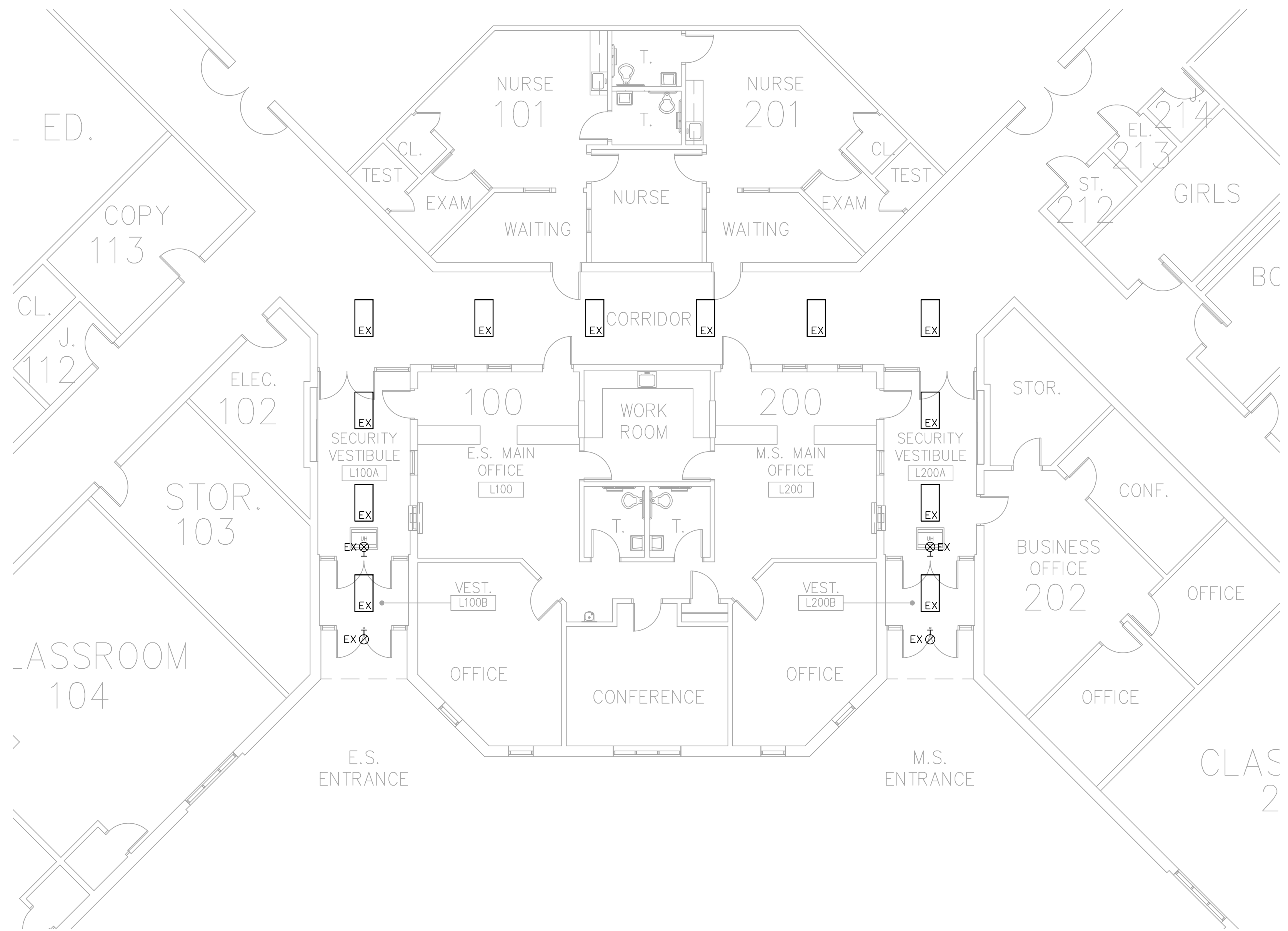
- FIRE PROTECTION NOTES**
- 1 REMOVE EXISTING SHOWER POLE AND CAP WATER SUPPLY PIPE AS REQUIRED.
  - 2 CAP OFF EXISTING FLOOR DRAIN.
  - 3 EXISTING HOT WATER SUPPLY LINE TO BE CAPPED OFF. EXTEND EXISTING COLD WATER LINE TO NEW FIRE PROTECTION LINE. VERIFY EXACT LOCATION IN FIELD.
  - 4 NEW SPRINKLER HEAD.
  - 5 NEW FIRE PROTECTION LINE VERIFY LOCATION IN FIELD.
  - 6 CONNECT NEW 1/2" TO EXISTING WITH VALVE. (VALVE NOT REQUIRED TO BE SUPERVISED BUT SHALL BE LOCKED TO OPEN POSITION AND HANDLE REMOVED)



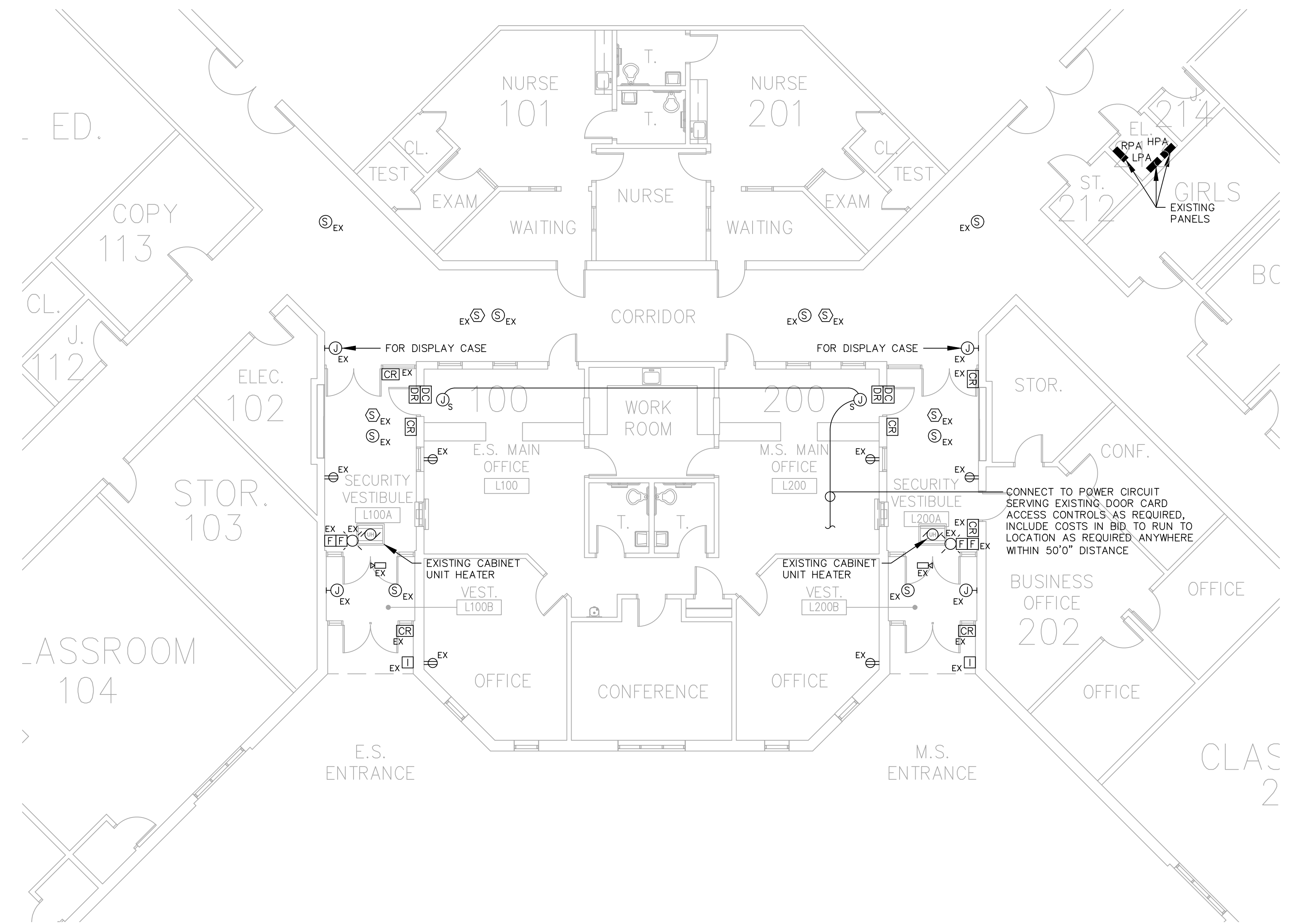
**REVISIONS**

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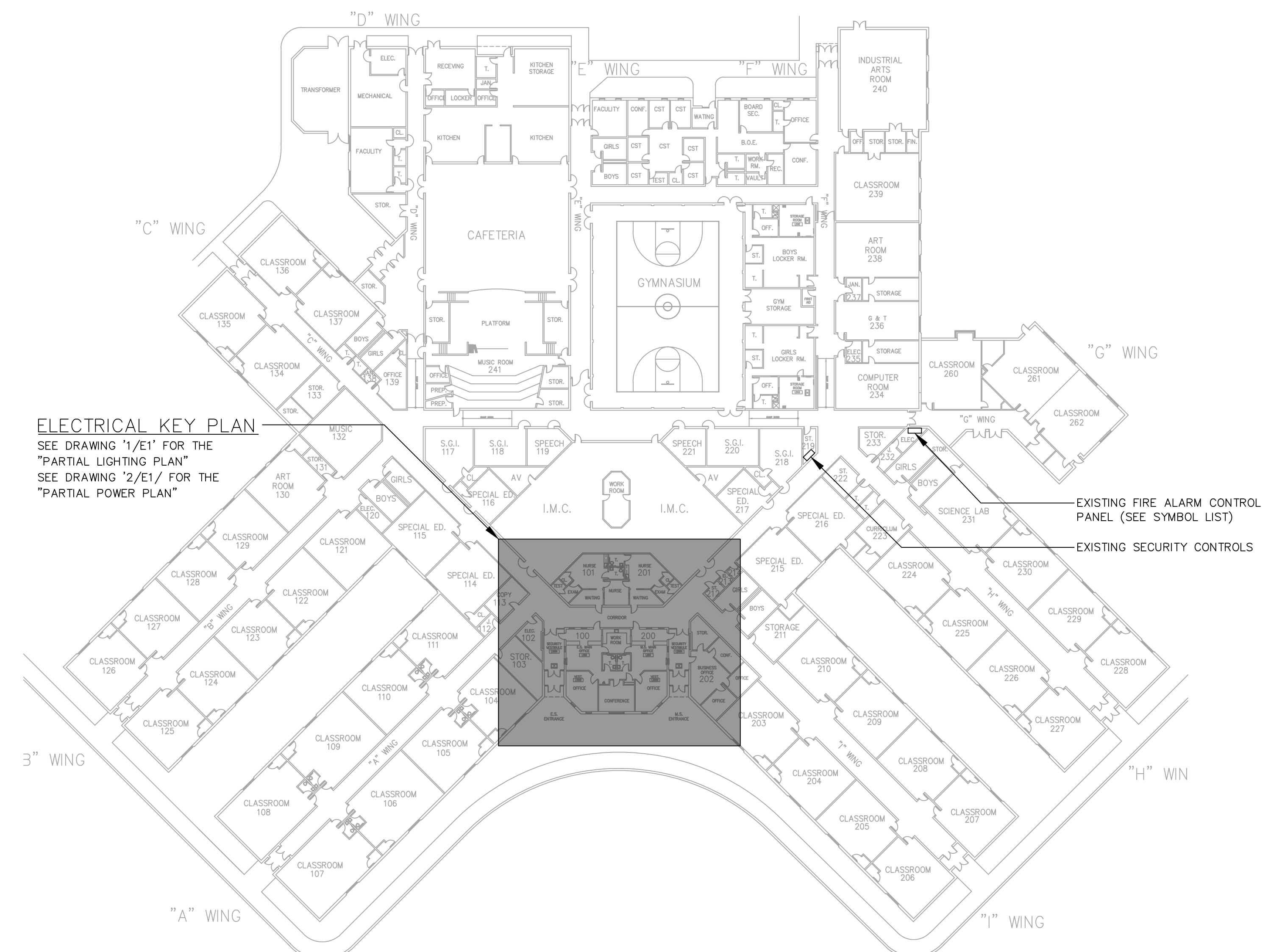
1 PARTIAL LIGHTING PLAN  
 LE1  
 GRAPHIC SCALE (FEET)



2 PARTIAL POWER PLAN  
 LE1  
 GRAPHIC SCALE (FEET)

LUMINAIRE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	ILLUMINATION LAMPS	REMARKS
EXIT	EXIT SIGN, RED LETTERS ON WHITE FACE AND HOUSING	EMERG-LITE	WW PDN * R	INTEGRAL DIFFUSED LED	INTEGRAL NiCd BATTERY BACKUP DIE CAST ALUMINUM HOUSING, CONNECT TO NEAREST LIGHTING CIRCUIT, UNIVERSAL MOUNTING (COORDINATE MOUNTING WITH ARCHITECT), QUANTITY OF FACES AS REQUIRED, PROVIDE DIRECTIONAL ARROWS WHERE SHOWN ON DRAWINGS

- NOTES:
- 1) PROVIDE ALL LUMINAIRES AS UNIVERSAL 120 V AND 277 V OPERATION, UNLESS INDICATED OTHERWISE.
  - 2) VERIFY ALL DEPTHS OF RECESSED LUMINAIRES PRIOR TO ORDERING, COORDINATE WITH CEILING DEPTHS.
  - 3) WHERE LUMINAIRES ARE SPECIFIED OR OTHERWISE FURNISHED WITH TAMPER RESISTANT HARDWARE, SEE SPECIFICATIONS.
  - 4) PROVIDE ALL LIGHT EMITTING DIODE (LED) AND FLUORESCENT LUMINAIRES WITH UNIVERSAL VOLTAGE (120-277 V) SOLID STATE ELECTRONIC DRIVERS/BALLASTS, UNLESS INDICATED OTHERWISE. PROVIDE ALL LINEAR FLUORESCENT LUMINAIRES WITH T8 ENERGY SAVING LAMPS, UNLESS INDICATED OTHERWISE.
  - 5) FOR ALL LED AND FLUORESCENT LUMINAIRES SHOWN ON THIS SCHEDULE WITH 0-10 V DIMMABLE DRIVERS/BALLASTS (WHEREVER 0-10 V DIMMING IS INDICATED IN THE DESCRIPTION, LAMPS, OR REMARKS ABOVE OR WHERE A CATALOG NUMBER IS USED ABOVE WHICH DENOTES 0-10 V DIMMABLE DRIVERS/BALLASTS IN MANUFACTURER'S DATA), PROVIDE BOTH POWER WIRING AND 0-10 V CONTROL WIRING TO ALL LUMINAIRES. RUN CONTROL WIRING AS REQUIRED FROM ALL LIGHTS WITH 0-10 V DIMMABLE DRIVERS/BALLASTS TO THE RESPECTIVE DIMMER OR SWITCH CONTROLLING THE LIGHTING. WHERE DIMMERS ARE SHOWN ON THE DRAWINGS (INCLUDING COMBINATION SENSORS/DIMMERS), INTERCONNECT CONTROL WIRING WITH DIMMERS AS PER MANUFACTURER. WHERE DIMMERS ARE NOT SHOWN ON THE DRAWINGS, INSTALL CONTROL WIRING TO THE SWITCH (NON-DIMMED) LOCATION AND SAFELY INSULATE AND CAP OFF CONTROL WIRING AS REQUIRED (TO FACILITATE FUTURE REPLACEMENT OF NON-DIMMED SWITCH WITH DIMMER).
  - 6) FOR ALL LUMINAIRES SHOWN ON THIS SCHEDULE AS DLC LISTED, PROVIDE ONLY LUMINAIRES QUALIFIED AND LISTED IN THE DESIGN LIGHTS CONSORTIUM (DLC) QUALIFIED PRODUCTS LISTING (QPL) AVAILABLE AT THE DLC WEBSITE (SEE BELOW). SUBMIT INFORMATION SHOWING LISTING IN THE DLC QPL AS PART OF SHOP DRAWINGS FOR REVIEW AND APPROVAL.  
[HTTP://WWW.DESIGNLIGHTS.ORG/SEARCH/](http://www.designlights.org/search/)
  - 7) PROVIDE ALL HIGH INTENSITY DISCHARGE LUMINAIRES WITH MULTIPLE TAP TYPE BALLASTS.
  - 8) MANUFACTURERS SHOWN ABOVE INDICATE THE BASIS OF DESIGN. OTHER MANUFACTURERS (INCLUDING, BUT NOT LIMITED, TO THOSE SHOWN IN THE LIGHTING SPECIFICATIONS) SHALL BE CONSIDERED.



ELECTRICAL KEY PLAN  
 SEE DRAWING '1/E1' FOR THE "PARTIAL LIGHTING PLAN"  
 SEE DRAWING '2/E1' FOR THE "PARTIAL POWER PLAN"  
 SCALE: 1" = 40'  
 EXISTING FIRE ALARM CONTROL PANEL (SEE SYMBOL LIST)  
 EXISTING SECURITY CONTROLS

REVISIONS

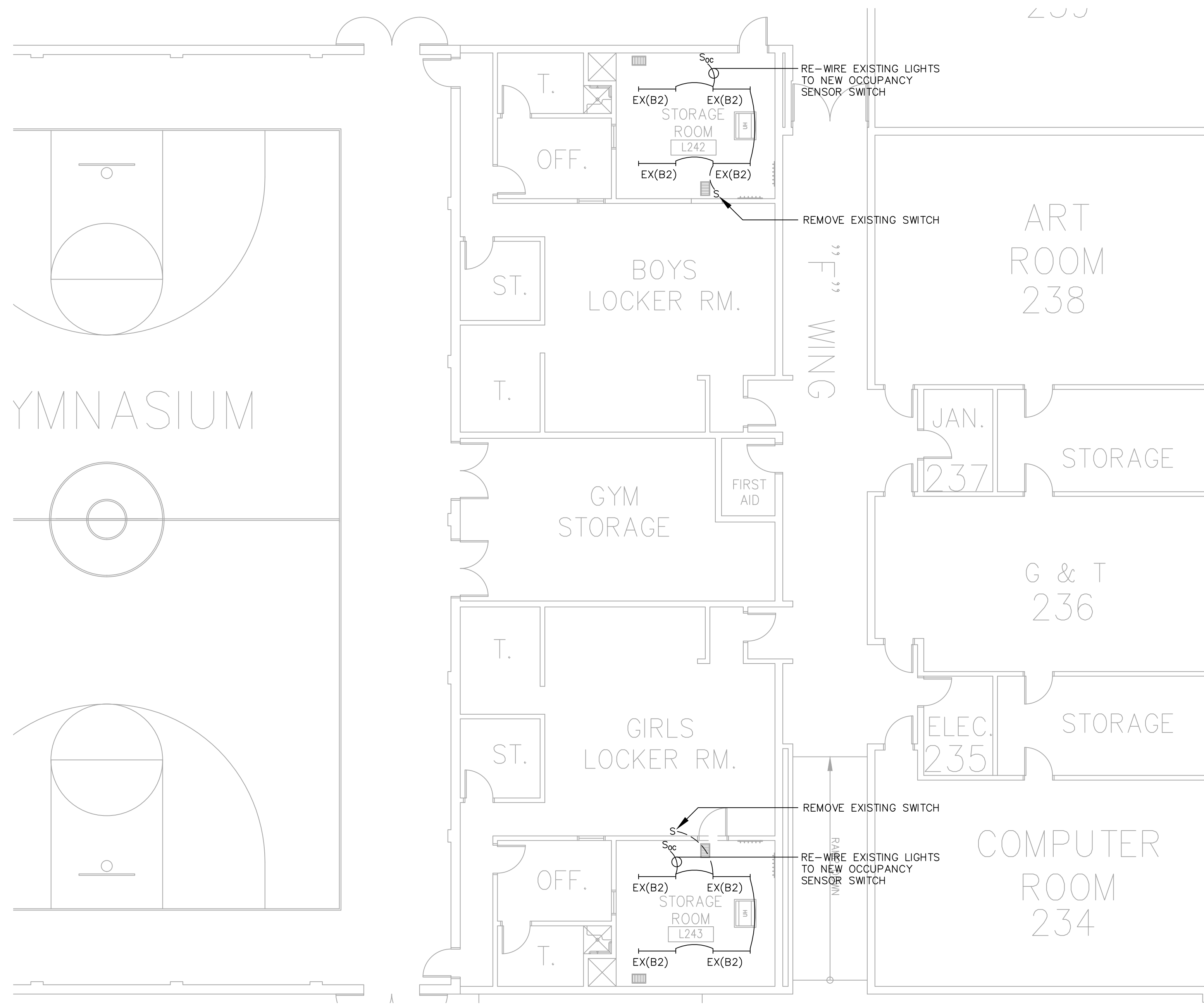
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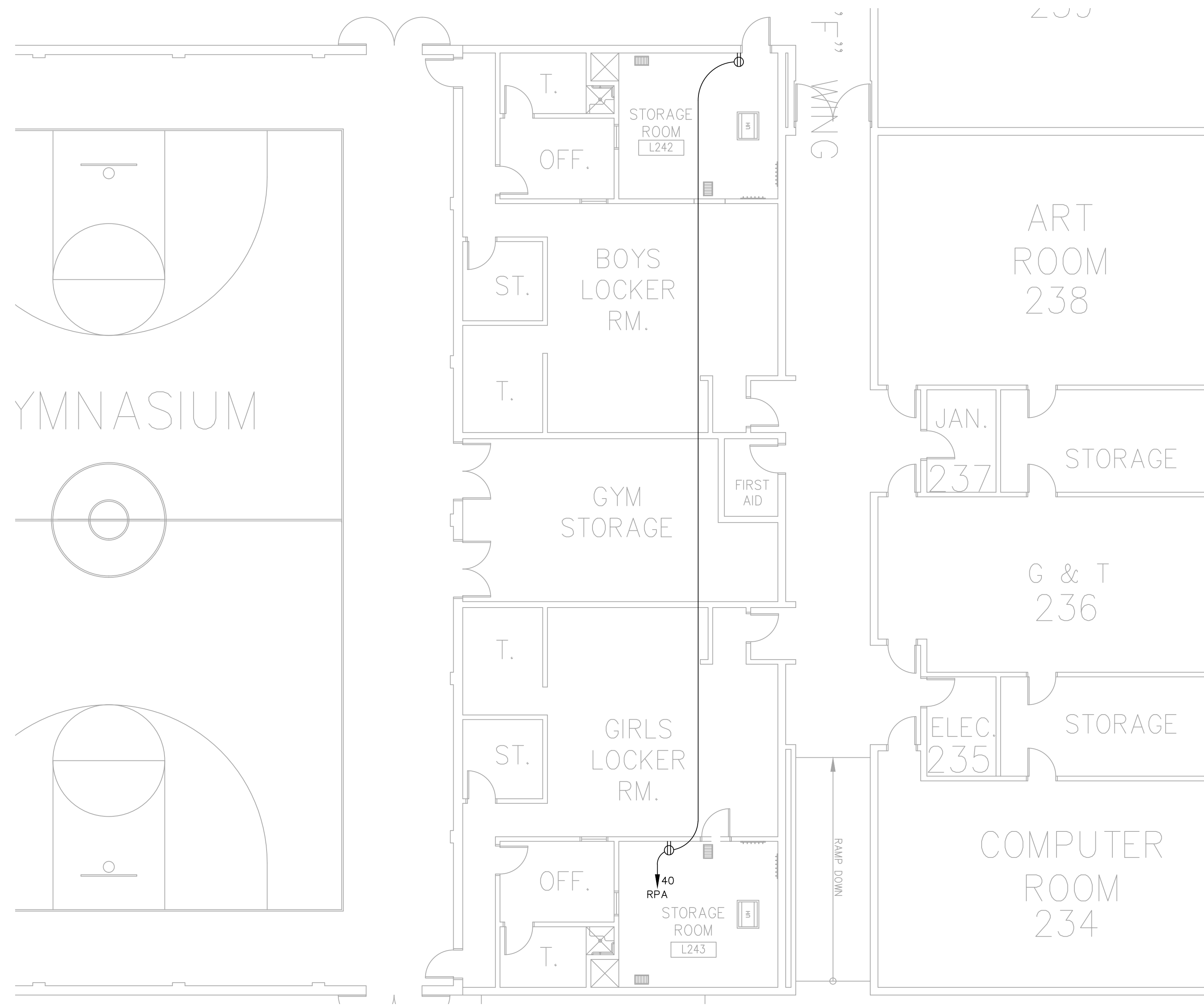
ELECTRICAL PLAN

LE1





**1 PARTIAL LIGHTING PLAN**  
 LE2  
 GRAPHIC SCALE (FEET)



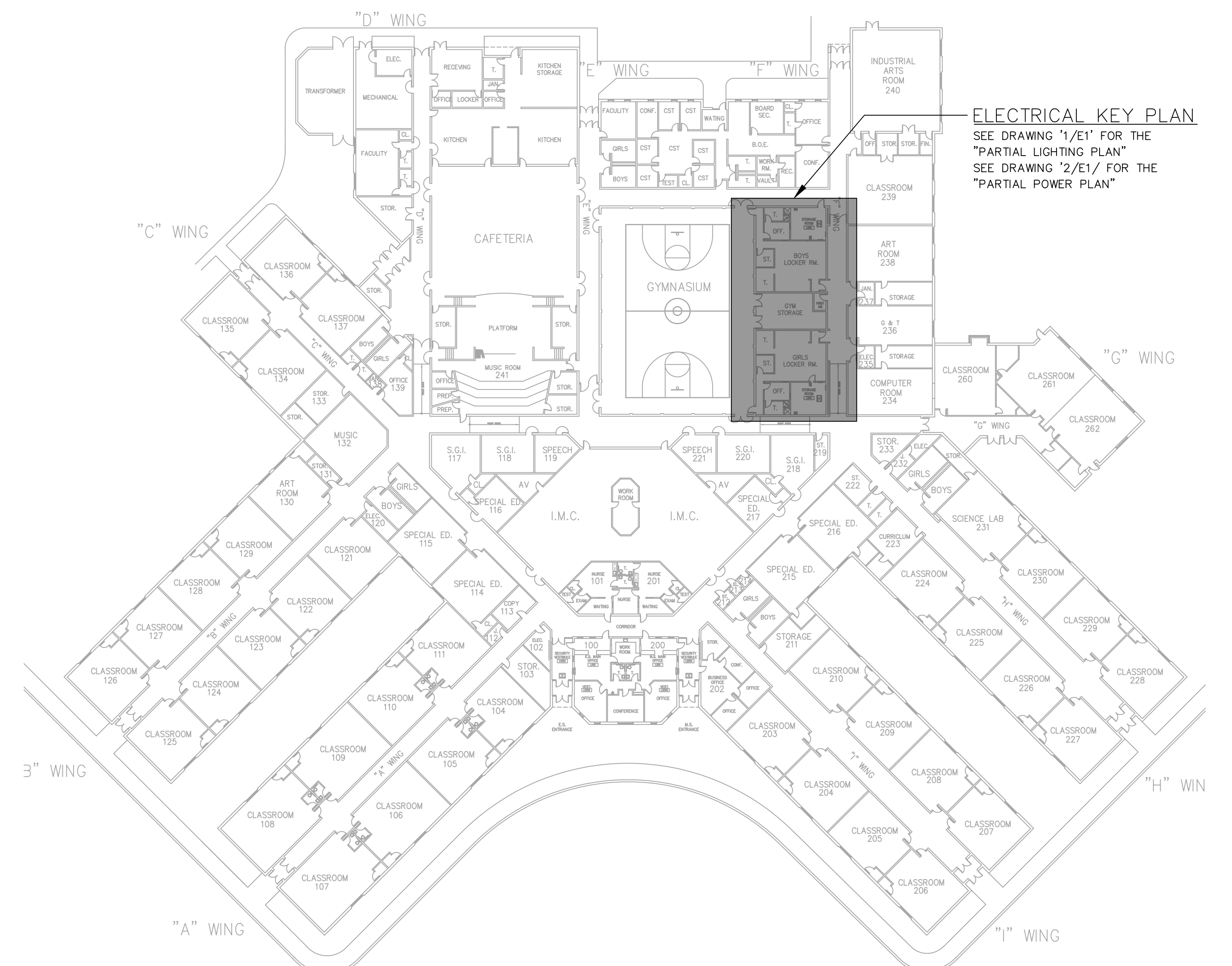
**2 PARTIAL POWER PLAN**  
 LE2  
 GRAPHIC SCALE (FEET)

**EQUIPMENT CONNECTION NOTES**

- EXACT DETAILS OF EQUIPMENT CONNECTIONS ARE NOT INDICATED ON THE ELECTRICAL FLOOR PLAN DRAWINGS. EQUIPMENT CONNECTIONS DETAILS ARE INDICATED ON THE EQUIPMENT CONNECTION SCHEDULES ON THE ELECTRICAL DRAWINGS. APPROXIMATE EQUIPMENT LOCATIONS ONLY ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
- THE EQUIPMENT SCHEDULES INDICATE THE EQUIPMENT NAMEPLATE ELECTRICAL CHARACTERISTICS (VOLTAGE, PHASE, AND LOAD AS WELL AS HORSEPOWER, WHERE APPLICABLE), PANEL CIRCUIT BREAKER AMPERES, LOCAL DISCONNECTING MEANS (CORD-AND-PLUG [INCLUDING NEMA CONFIGURATION] OR SWITCH), AND CIRCUIT WIRE AND CONDUIT.
- PRIOR TO ROUGH-IN, VERIFY EXACT POINT OF ELECTRICAL CONNECTION TO EACH PIECE OF EQUIPMENT IN THE FIELD TO AVOID PLACING SERVICE AT THE WRONG LOCATION.
- ELECTRICAL INFORMATION SHOWN IS BASED ON NAMEPLATE AND/OR CATALOG CUT INFORMATION, AND IS ACCURATE TO THE BEST OF THE KNOWLEDGE OF THE ENGINEER AND OWNER. HOWEVER, NO GUARANTEES ARE MADE TO ITS ACCURACY. VERIFY EXACT ELECTRICAL, OPERATING, AND CONNECTION CHARACTERISTICS AND REQUIREMENTS IN THE FIELD PRIOR TO PURCHASING ASSOCIATED ELECTRICAL EQUIPMENT (PANEL BRANCH CIRCUIT BREAKERS, RECEPTACLES, SWITCHES, ETC.) AND PRIOR TO PULLING WIRING IN CONDUITS AND/OR ROUGHING-IN CABLE WIRING METHODS (WHERE PERMITTED).
- PROVIDE CIRCUIT BREAKERS IN PANELS AS PER THE BREAKER AMPS ON THE EQUIPMENT SCHEDULES. FOR EXACT CIRCUITING AND CONNECTIONS AT PANELS, REFER TO THE APPROPRIATE PANEL SCHEDULES.
- PROVIDE ALL EQUIPMENT WITH A LOCAL DISCONNECTING MEANS, CONSISTING OF ONE OF THE FOLLOWING, AS INDICATED ON THE EQUIPMENT SCHEDULE (OR AS OTHERWISE VERIFIED IN THE FIELD).
  - CORD-AND-PLUG CONNECTED EQUIPMENT: PROVIDE RECEPTACLE OF NEMA CONFIGURATION OR SPECIFIC TYPE INDICATED ON THE EQUIPMENT SCHEDULE. PROVIDE SINGLE RECEPTACLES UNLESS INDICATED AS DUPLEX (DUP.), QUADRUPLX (QUAD.), OR OTHERWISE NOTED. PROVIDE RECEPTACLE TYPES COMPATIBLE WITH PLUG TYPES ON EQUIPMENT CORDS, VERIFY IN FIELD. LOCATE RECEPTACLE NEAR EQUIPMENT AS REQUIRED. WHERE EQUIPMENT CORD IS NOT LONG ENOUGH TO REACH RECEPTACLE (OR WHERE EQUIPMENT DOES NOT INCLUDE CORD), PROVIDE A NEW CORD AND PLUG (TO MATCH EXISTING) AS REQUIRED. PROVIDE MAXIMUM CORD LENGTH NOT EXCEEDING 1.8 m (6'0").
  - THERMAL OVERLOAD SWITCH (O/L SWITCH, MANUAL MOTOR STARTER): FOR ALL DIRECT CONNECTED (WITHOUT CORD AND PLUG) EQUIPMENT RATED 120 V OR 277 V AND 20 A OR LESS, PROVIDE A HORSEPOWER RATED THERMAL OVERLOAD SWITCH LOCATED AT OR ADJACENT TO THE EQUIPMENT. WHERE EQUIPMENT IS NOT POWERED OR IS POWER OPERATED BY SOURCES OTHER THAN ELECTRICITY (I.E. PNEUMATIC OPERATION, GAS FIRED, ETC.) AND WHERE ELECTRICITY IS REQUIRED ONLY FOR LOW VOLTAGE OR SOLID STATE CONTROLS, A SINGLE POLE 120/277 V SWITCH MAY BE UTILIZED.
  - DISCONNECT SWITCH: FOR ALL DIRECT CONNECTED EQUIPMENT OVER 120 V (EXCEPT 277 V SINGLE-PHASE EQUIPMENT) OR OVER 20 A, PROVIDE A SUITABLE HEAVY DUTY SAFETY SWITCH. PROVIDE AMPERE RATING AND POLES AS PER THE EQUIPMENT SCHEDULES. PROVIDE SWITCHES OF THE UN-FUSED TYPE, EXCEPT WHERE FUSE SIZES (AFU) ARE INDICATED ON THE SCHEDULE. PROVIDE FUSED DISCONNECT SWITCHES WITH FUSES WHERE INDICATED ON THE SCHEDULE. WHERE INDICATED AS (ECB), PROVIDE AN ENCLOSED CIRCUIT BREAKER WITH TRIP RATING AS SHOWN.
  - HARD WIRE DIRECT CONNECTION (J-BOX ONLY): FOR ALL DIRECT CONNECTED EQUIPMENT WHERE A DISCONNECTING MEANS IS NOT REQUIRED BY CODE AND NOT DESIRED BY THE OWNER FOR THE EQUIPMENT SERVED, PROVIDE A DIRECT HARD WIRE CONNECTION UTILIZING A SUITABLE JUNCTION OR OUTLET BOX. WHERE EQUIPMENT ENCLOSURE IS SUITABLE FOR USE AS A RACEWAY OR WIRE WAY, THE JUNCTION OR OUTLET BOX MAY BE OMITTED.
- PROVIDE CIRCUIT WIRING AND CONDUIT FROM THE APPROPRIATE PANEL (REFER TO PANEL SCHEDULES) TO THE EQUIPMENT (PASSING THROUGH ANY APPLICABLE CONTROLS AND LOCAL DISCONNECTING MEANS) AS PER THE EQUIPMENT SCHEDULES. PROVIDE INDIVIDUAL NEUTRAL (WHERE APPLICABLE) AND EQUIPMENT GROUNDING CONDUCTORS WITH EACH CIRCUIT.
- FEED FREE STANDING EQUIPMENT UNABLE TO BE SERVED BY WIRING RUN ON/ALONG WALLS OR COLUMNS WITH CONDUIT FROM THE CEILING OR UNDER THE FLOOR, SUITABLY SUPPORTED.

DESCRIPTION	LTS. VA.	EQUIP. VA.	HVAC VA.	BRK. AMPS	BUS CONNECTION	BRK. AMPS	HVAC VA.	EQUIP. VA.	LTS. VA.	DESCRIPTION		
(EX) EXISTING CIRCUIT				20	1	1	A	1	2	1	(EX) EXISTING CIRCUIT	
(EX) EXISTING CIRCUIT				20	1	1	B	1	4	2	1	(EX) EXISTING CIRCUIT
(EX) EXISTING CIRCUIT				20	1	1	C	6	20	1	(EX) EXISTING CIRCUIT	
(EX) EXISTING CIRCUIT				20	1	1	A	1	6	20	1	(EX) EXISTING CIRCUIT
(EX) EXISTING CIRCUIT				20	1	1	B	1	10	20	1	(EX) EXISTING CIRCUIT
(EX) EXISTING CIRCUIT				20	1	1	C	12	20	1	(EX) EXISTING CIRCUIT	
(EX) EXISTING CIRCUIT				20	1	1	A	1	14	20	1	(EX) EXISTING CIRCUIT
(EX) EXISTING CIRCUIT				20	1	1	B	1	16	20	1	(EX) EXISTING CIRCUIT
(EX) EXISTING CIRCUIT				20	1	1	C	18	20	1	(EX) EXISTING CIRCUIT	
(EX) EXISTING CIRCUIT				20	1	1	A	1	20	20	1	(EX) EXISTING CIRCUIT
(EX) EXISTING CIRCUIT				20	1	1	B	1	22	20	1	(EX) EXISTING CIRCUIT
(EX) EXISTING CIRCUIT				20	1	1	C	24	20	1	(EX) EXISTING CIRCUIT	
(EX) EXISTING CIRCUIT				20	1	1	A	1	26	20	1	(EX) EXISTING CIRCUIT
(EX) EXISTING CIRCUIT				20	1	1	B	1	28	20	1	(EX) EXISTING CIRCUIT
(EX) EXISTING CIRCUIT				20	1	1	C	30	20	1	(EX) EXISTING CIRCUIT	
(EX) EXISTING CIRCUIT				20	1	1	A	1	32	20	1	(EX) EXISTING CIRCUIT
(EX) EXISTING CIRCUIT				20	1	1	B	1	34	20	1	(EX) EXISTING CIRCUIT
(EX) EXISTING CIRCUIT				20	1	1	C	36	20	1	(EX) EXISTING CIRCUIT	
(EX) EXISTING CIRCUIT				20	1	1	A	1	38	20	1	(EX) EXISTING CIRCUIT
(EX) EXISTING CIRCUIT				20	1	1	B	1	40			SPACE
(EX) EXISTING CIRCUIT				20	1	1	C	42			SPACE	
NEW STORAGE ROOMS RECEPT.		400										
<b>TOTALS</b>	<b>0</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>TOTALS</b>	
LOAD DESCRIPTION (CONNECTED DEMAND)	CONN. VA.	DMD VA.	PANEL SCHEDULE		PHASE BALANCE VA							
LIGHTING	0	0	MULHERN CONSULTING ENGINEERS AND ASSOCIATES, INC.		A	0						
GENERAL POWER	400	200	321 SOUTH YORK ROAD		B	0						
HVAC EQUIPMENT	0	0	HATBORO, PENNSYLVANIA 19040-3417		C	400						
			PHONE: 215-293-9900/FX: 215-441-5984		TOTAL	400						
			www.MulhernEngineers.com		SD(1)	189						

NOTES:  
 1) THIS PANEL IS EXISTING. MODIFY AS SHOWN. EXISTING PANEL IS SQUARE-D TYPE "NOOD".  
 (EX) INDICATES EXISTING CIRCUIT TO REMAIN.  
 \* INDICATES NEW CIRCUIT. PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE OR IN SPACE FROM REMOVING AN EXISTING CIRCUIT BREAKER AS REQUIRED.  
 \*\* INDICATES NEW CIRCUIT. CONNECT TO EXISTING SPARE CIRCUIT BREAKER OR CIRCUIT BREAKER FROM REMOVING AN EXISTING CIRCUIT AS REQUIRED.



**ELECTRICAL KEY PLAN**  
 SCALE: 1" = 40'

**ELECTRICAL KEY PLAN**  
 SEE DRAWING '1/E1' FOR THE "PARTIAL LIGHTING PLAN"  
 SEE DRAWING '2/E1' FOR THE "PARTIAL POWER PLAN"

**REVISIONS**

a.	e.
b.	f.
c.	g.

Project No. 19-18L  
 Date: 05/13/19  
 Scale: AS NOTED

**ELECTRICAL PLAN**  
**LE2**



ELECTRICAL NOTES

- 1) PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), OSHA REQUIREMENTS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL OWNER REQUIREMENTS.
2) INCLUDE ALL TEMPORARY POWER AND LIGHTING, PERMIT, LICENSE, AND INSPECTION COSTS IN BID.
3) VERIFY EXACT LOCATIONS AND MOUNTING OF ALL LUMINAIRES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM, AND OTHER EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND IN THE FIELD PRIOR TO ROUGH IN.
...
25) FOR ALL ROOFTOP/ATTIC AND SIMILAR EQUIPMENT, LOCATE ALL EQUIPMENT DISCONNECTING MEANS AS REQUIRED SO THE DISCONNECTING MEANS IS ACCESSIBLE FROM, OPERABLE FROM, AND SERVICEABLE FROM...

ELECTRICAL SCOPE SPECIFICATIONS

- 1) PROVIDE ALL WIRING AS COPPER (CU) AND WITH INSULATION IDENTIFIED AS BOTH TYPES "THHN" AND "THWN", ALUMINUM (AL) IS NOT ACCEPTABLE, UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS.
2) RUN ALL NEW WIRING AS CONCEALED WHEREVER POSSIBLE, UNLESS OTHERWISE APPROVED BY THE ARCHITECT, OWNER, AND ENGINEER.
3) UTILIZE #10 AWG MINIMUM WIRING FOR ALL OUTDOOR POWER AND LIGHTING CIRCUITS, EMERGENCY POWER AND LIGHTING CIRCUITS AND WIRING, AND ALL CIRCUITS EXCEEDING 23 m (75'0"), FOR 120/208/240 V CIRCUITS) OR 46 m (150'0"), FOR 277/480 V CIRCUITS) TO CENTER OF LOAD.
...
25) UPON COMPLETION OF THE PROJECT, SUBMIT A COMPLETE SET OF BLUEPRINTS MARKED UP WITH ALL AS-BUILT CONDITIONS. PROVIDE AS-BUILT DRAWINGS INCLUDING DETAILED LOCATIONS AND ROUTING OF ALL CONCEALED WIRING.
...
29) GUARANTEE AND WARRANTY ALL WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL COMPLETION.

ELECTRICAL SYMBOL LIST

Table with 2 columns: Symbol and Description. Symbols include S, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35, S36, S37, S38, S39, S40, S41, S42, S43, S44, S45, S46, S47, S48, S49, S50, S51, S52, S53, S54, S55, S56, S57, S58, S59, S60, S61, S62, S63, S64, S65, S66, S67, S68, S69, S70, S71, S72, S73, S74, S75, S76, S77, S78, S79, S80, S81, S82, S83, S84, S85, S86, S87, S88, S89, S90, S91, S92, S93, S94, S95, S96, S97, S98, S99, S100.

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MCE #0609L
GARIPHERN ARCHITECTS
A Professional Corporation of Architects and Planners
715 CREEK ROAD, BELLMAR, NEW JERSEY 08031 (856) 395-6200

LOGAN ELEMENTARY SCHOOL/MIDDLE SCHOOL
NEW SECURITY VESTIBULES AND WINDOW REPLACEMENT
110 SCHOOL LANE
LOGAN TOWNSHIP, NEW JERSEY 08085

Table with 2 columns: Revision Number and Description. Revisions include: 1. e, 2. f, 3. g.

Project No. 19-18L
Date: 05/13/19
Scale: AS NOTED
ELECTRICAL NOTES AND DETAILS
LE3

Vertical text on the right margin: THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WITHOUT THE WRITTEN PERMISSION AND CONSENT OF GARIPHERN ARCHITECTS. WRITTEN DIMENSIONS ON THESE PLANS SHALL TAKE PRECEDENCE OVER DIMENSIONS SHOWN ON THE DRAWINGS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS.

ISSUED FOR BID: 05-13-2019



# CENTER SQUARE SCHOOL NEW SECURITY VESTIBULE

**100 PEACHWOOD DRIVE  
LOGAN TOWNSHIP, NEW JERSEY 08085**

## FOR THE LOGAN TOWNSHIP SCHOOL DISTRICT

**110 SCHOOL LANE  
LOGAN TOWNSHIP, NEW JERSEY 08085**

PROJECT NUMBER: 19-18C  
TYPE OF CONSTRUCTION: 2B  
USE GROUP: E



**BIRD EYES VIEW**

No.	INDEX OF DRAWINGS
	COVER SHEET & INDEX
<b>ARCHITECTURAL</b>	
CA-1	OVERALL FLOOR PLAN
CA-2	PARTIAL ENLARGED FLOOR PLANS
CA-3	DOOR SCHEDULE & DETAILS
<b>MECHANICAL</b>	
CM-1	MECHANICAL PLANS, NOTES, SCHEDULES & DETAILS
<b>ELECTRICAL</b>	
CE-1	ELECTRICAL PLAN
CE-2	ELECTRICAL NOTES & DETAILS

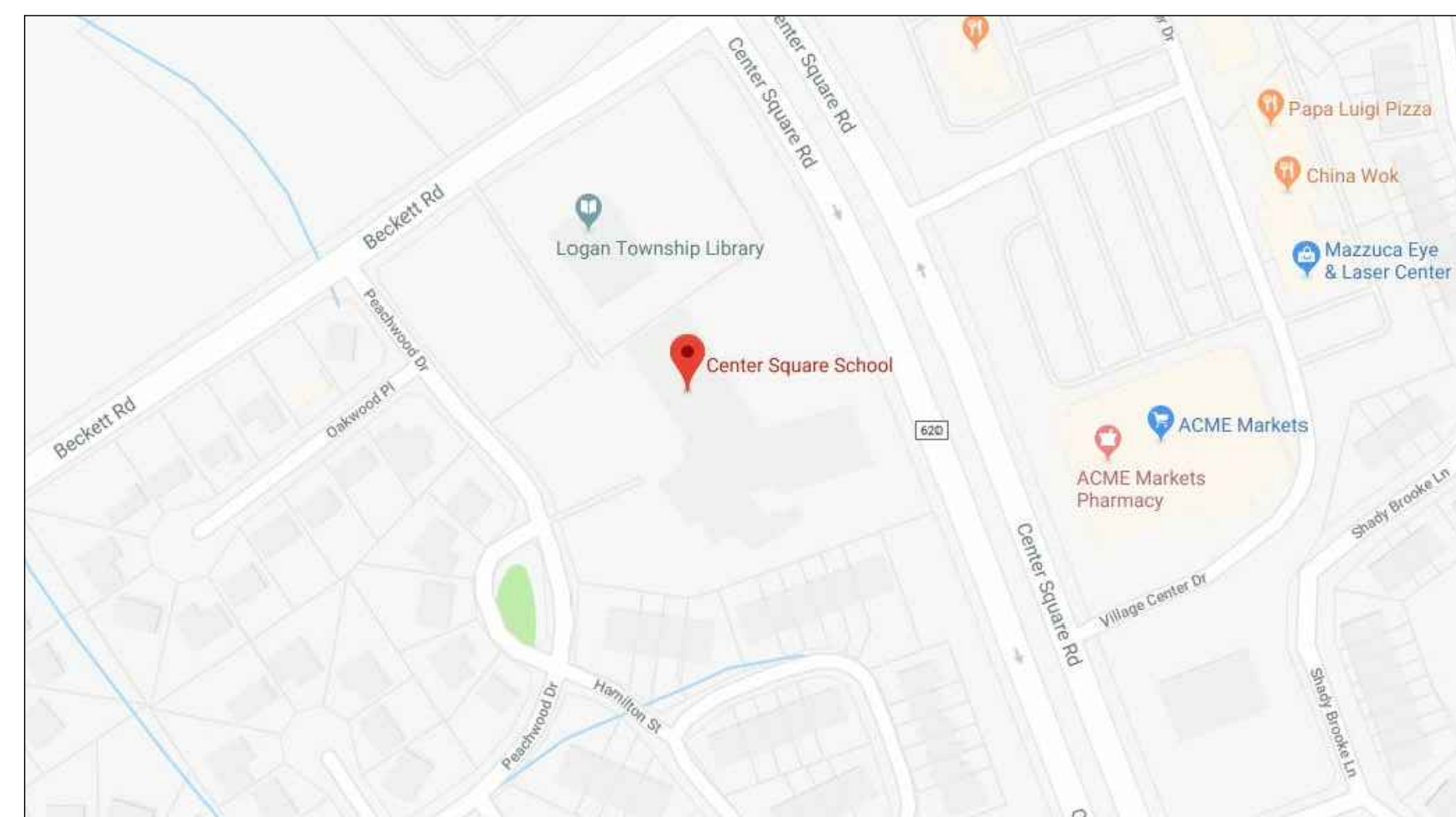
**NEW JERSEY MODEL CODE ADOPTIONS & STANDARDS:**  
 BUILDING SUBCODE: INTERNATIONAL BUILDING CODE/2015, NEW JERSEY EDITION  
 PLUMBING SUBCODE: NATIONAL STANDARD PLUMBING CODE/2015  
 ELECTRICAL SUBCODE: NATIONAL ELECTRICAL CODE (NFPA 70)/2014  
 ENERGY SUBCODE: ASHRAE STD. 90.1-2013 (COMMERCIAL)  
 MECHANICAL SUBCODE: INTERNATIONAL MECHANICAL CODE/2015  
 FUEL GAS SUBCODE: INTERNATIONAL FUEL GAS CODE/2015  
 REHABILITATION SUBCODE: NJUCC, SUBCHAPTER 6  
 BARRIER FREE SUBCODE: (SUB 7) - ICC/ANSI A117.1-2009  
 FIRE PROTECTION SUBCODE: INTERNATIONAL BUILDING CODE/2015, NEW JERSEY EDITION  
 NJ UCC BULLETIN 00-3: PUBLIC SCHOOLS-FACILITY PLANNING STANDARDS & UCC ENHANCEMENTS

**CONSTRUCTION MANAGER:**

GREYHAWK, LLC  
 2000 MIDLANTIC DRIVE, SUITE 210,  
 MOUNT LAUREL, NJ 08054  
 PHONE: 856-722-1800 FAX: 856-722-1806

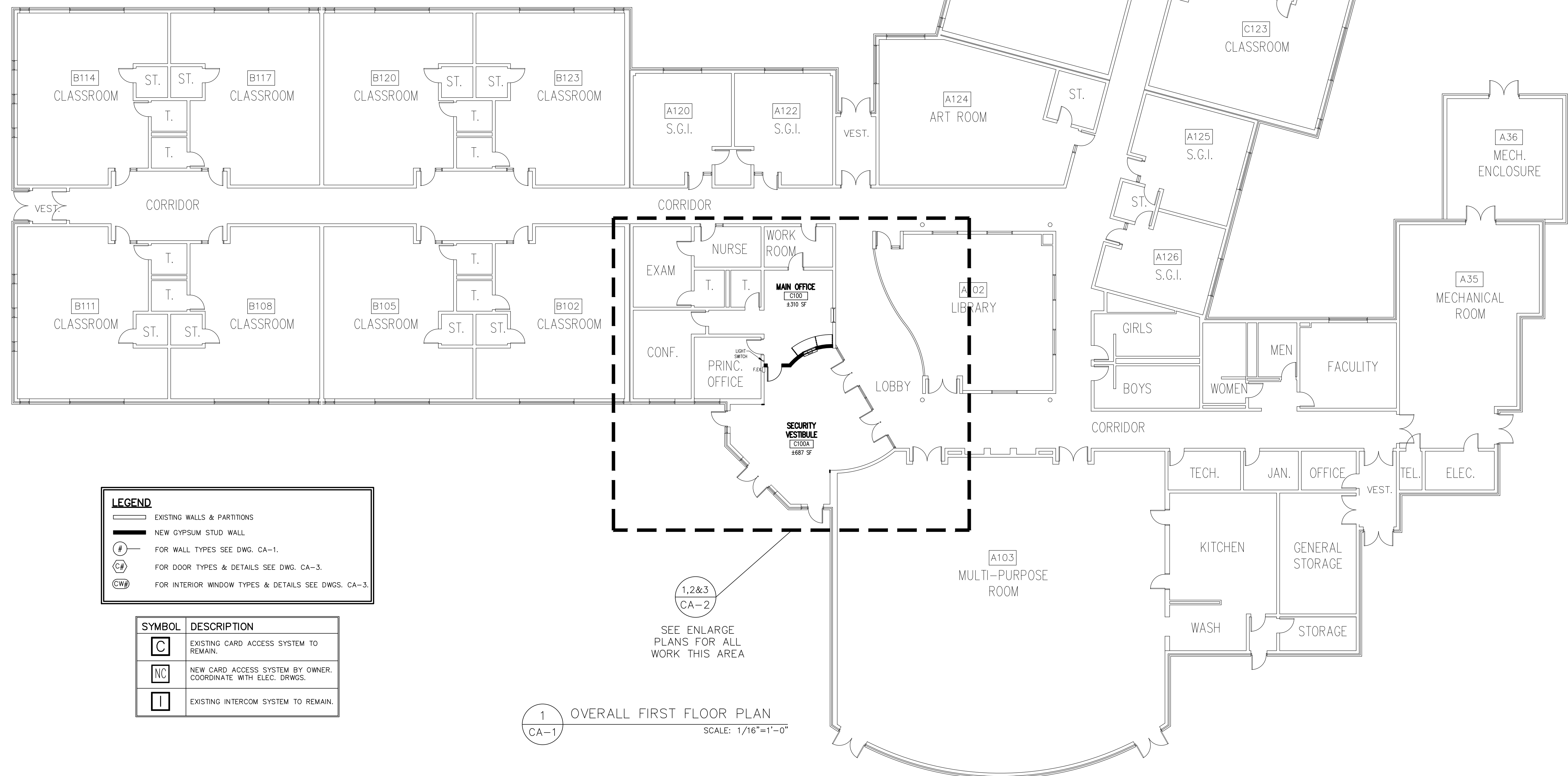
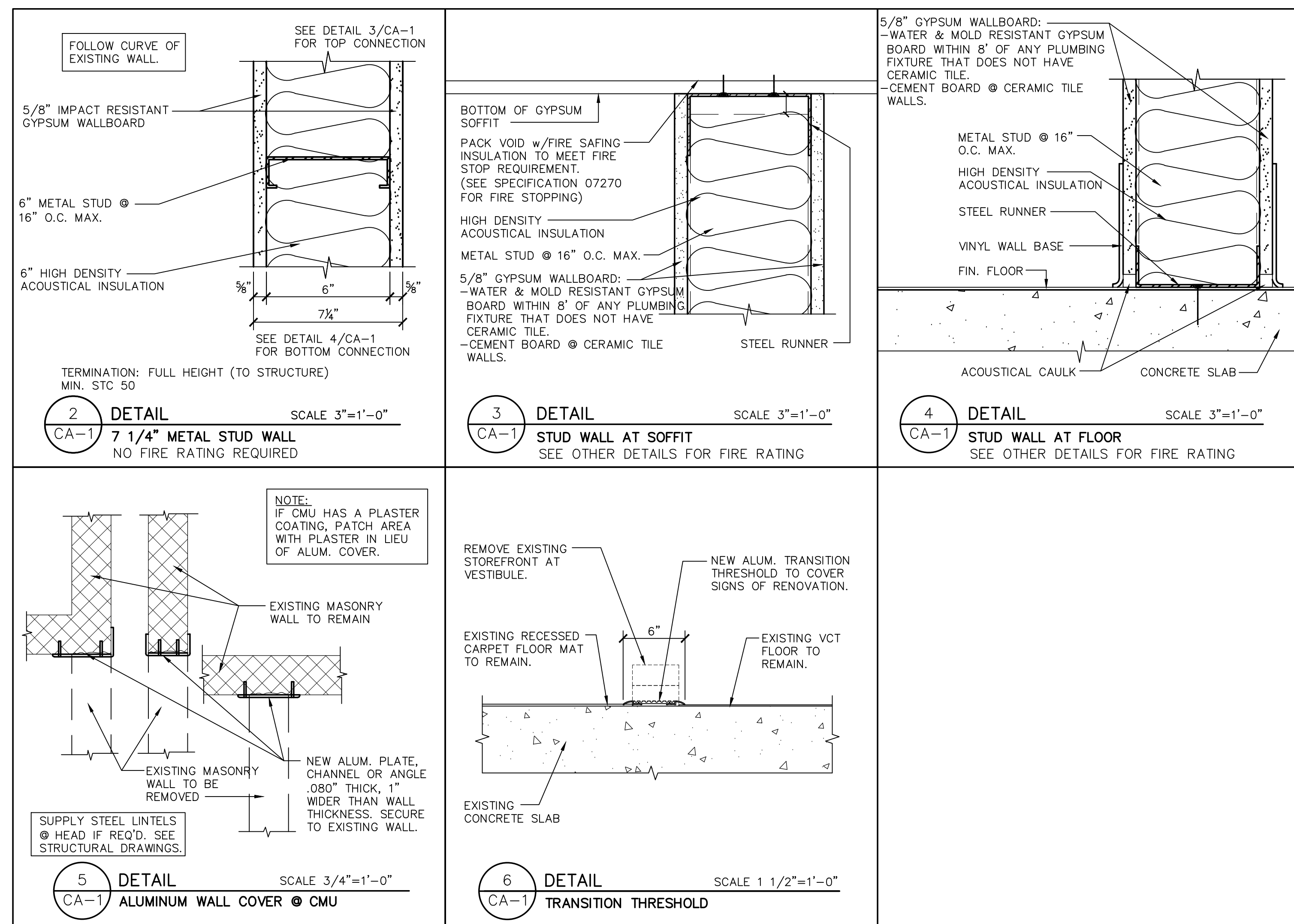
**MECHANICAL, PLUMBING,  
ELECTRICAL ENGINEER:**

MULHERN CONSULTING ENGINEERS  
 321 SOUTH YORK ROAD, HATBORO, PA 19040  
 PHONE: 215-293-9900 FAX: 215-441-5984



**LOCATION MAP**





**Garrison Architects**  
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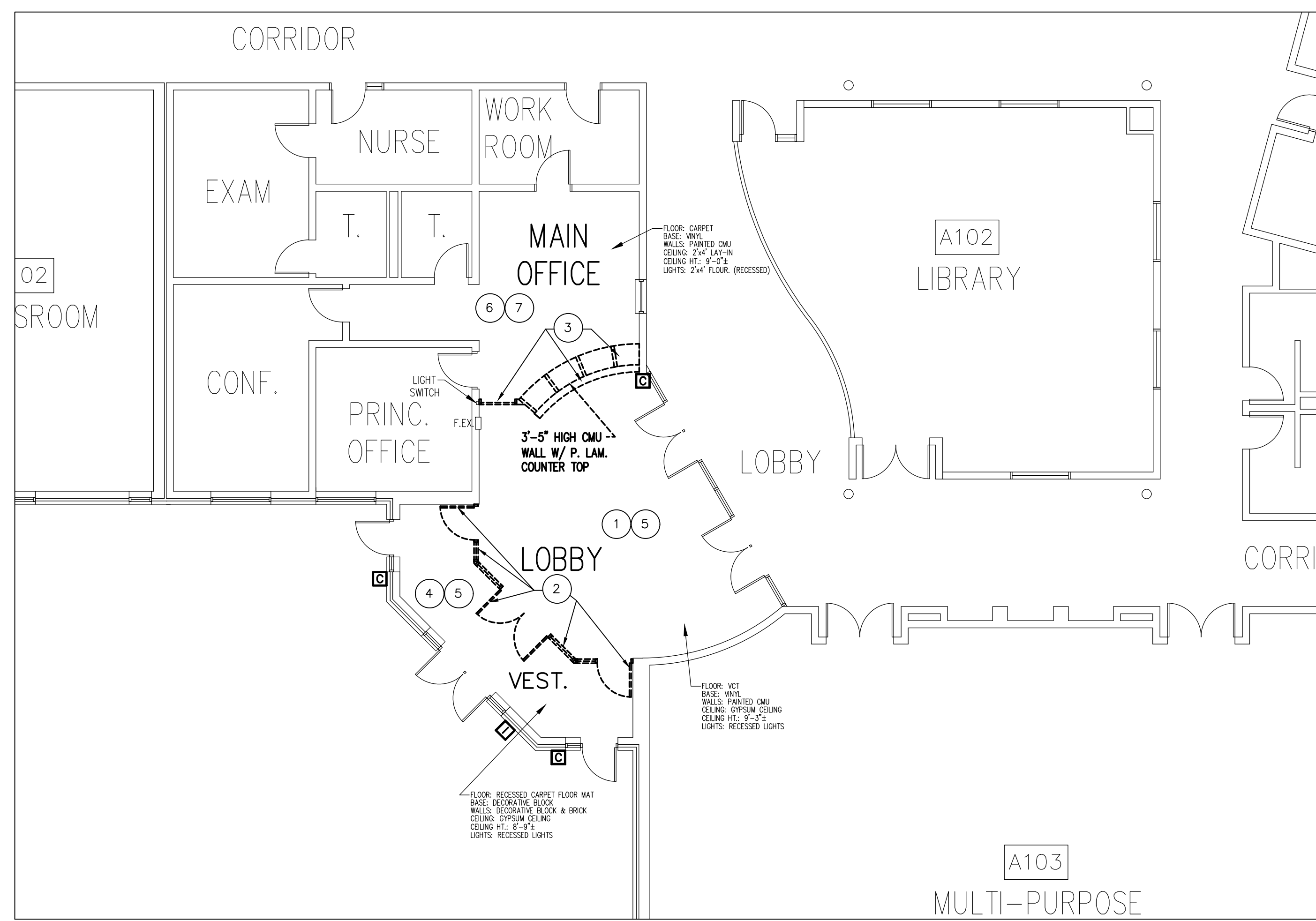
**CENTER SQUARE SCHOOL**  
**NEW SECURITY VESTIBULE**  
 100 PEACHWOOD DRIVE  
 LOGAN TOWNSHIP, NEW JERSEY 08085

REVISIONS  
 a. e.  
 b. f.  
 c. g.

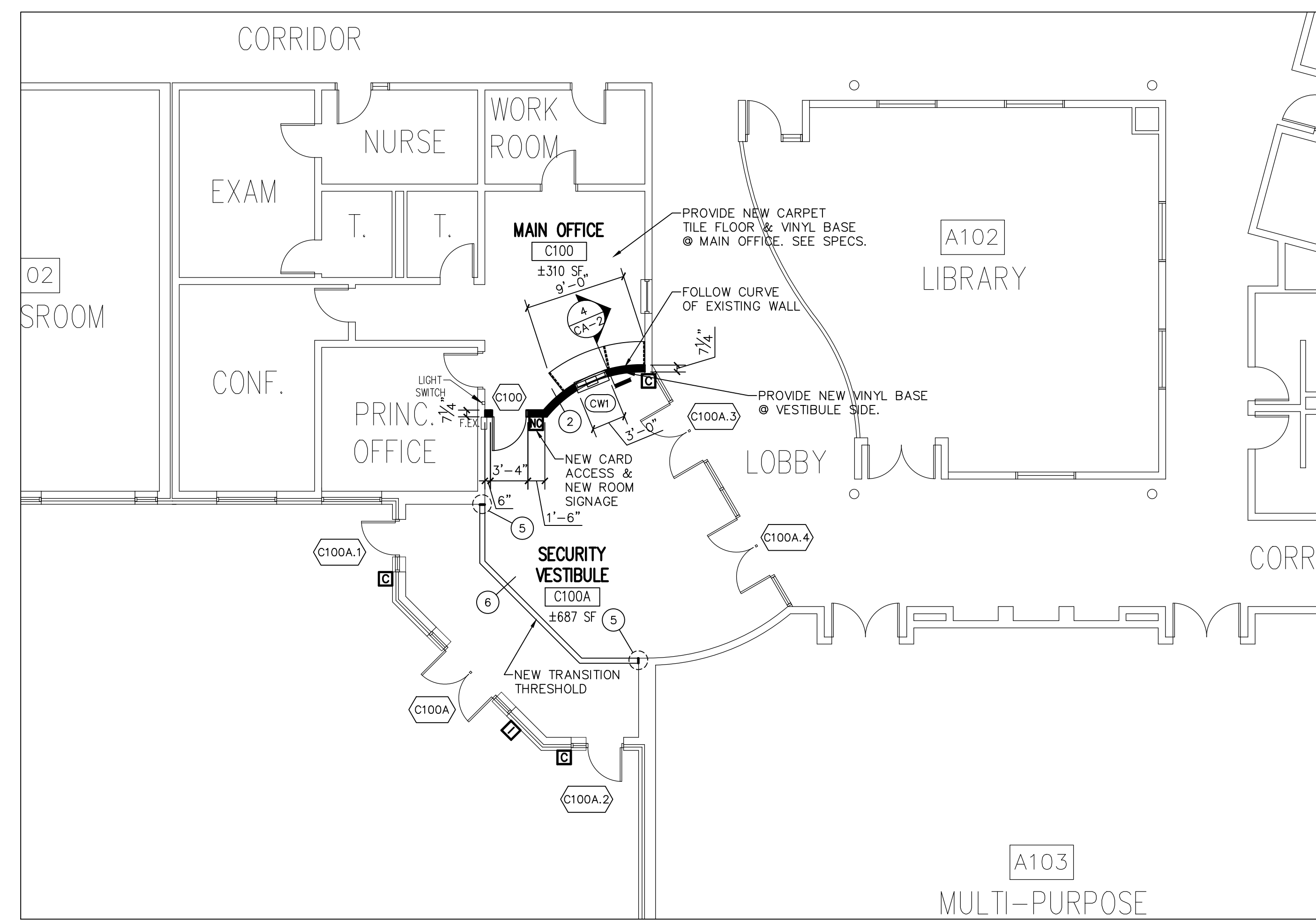
Project No: 9-18C  
 Date: 05/13/19  
 Scale: AS NOTED  
**OVERALL FLOOR PLAN (CENTER SQ.)**  
**CA-1**

ISSUED FOR BID: 05-13-2019

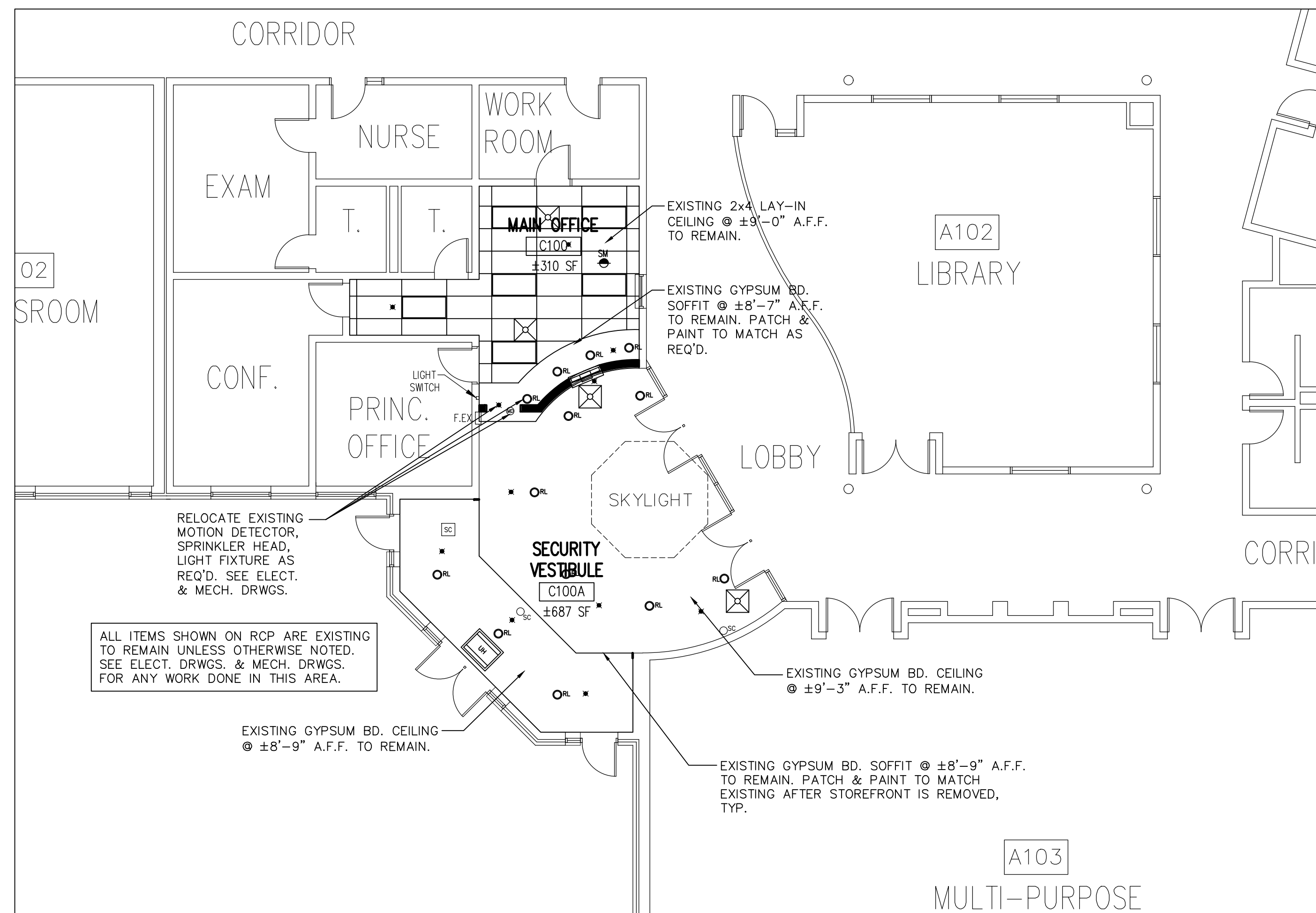




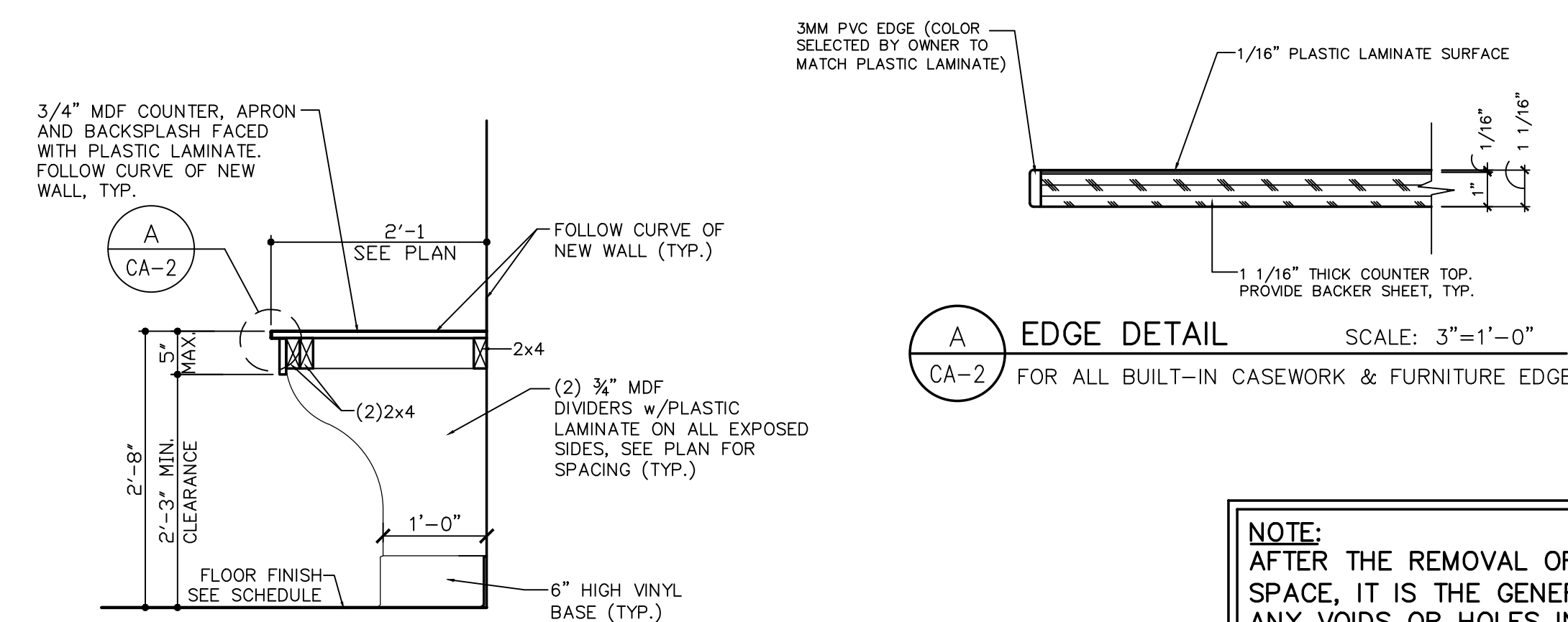
1 PARTIAL DEMOLITION FLOOR PLAN  
CA-2 SCALE: 1/8"=1'-0"



2 PARTIAL PROPOSED FLOOR PLAN  
CA-2 SCALE: 1/8"=1'-0"



3 PARTIAL REFLECTED CEILING PLAN  
CA-2 SCALE: 1/8"=1'-0"



4 SECTION COUNTER  
CA-2 SCALE: 3/4"=1'-0"

GENERAL DEMOLITION/ RENOVATION NOTES:

THE GENERAL CONTRACTOR SHALL REMOVE ALL ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO LOCKERS, DOORS AND FRAMES, WINDOWS AND FRAMES, CEILING SYSTEM, PARTITIONS, CARPET, STOREFRONT WINDOW SYSTEM, GUARDRAILS, HANDRAILS, TACK STRIPS, SHELVING/ CASEWORK AND TOILET PARTITIONS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE ARCHITECT FOR FURTHER CLARIFICATIONS.

THE PLUMBING CONTRACTOR SHALL DISCONNECT AND CAP ALL PLUMBING ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO WATER CLOSETS, LAVATORIES, DRINKING FOUNTAINS, SHOWERS AND CONTROLS, SUPPLY LINES FOR HOT AND COLD WATER, EYE WASH STATIONS, WASH BASINS, LIMITED SPRINKLER SYSTEM AND AIR COMPRESSOR SUPPLY LINES. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE PLUMBING ENGINEER FOR FURTHER CLARIFICATIONS.

THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND CAP ALL ELECTRICAL ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO LIGHT FIXTURES, SWITCHES, WALL OUTLETS, WIRING/ CONDUIT AND TELEPHONE SYSTEMS, REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE ELECTRICAL ENGINEER FOR FURTHER CLARIFICATIONS.

THE H.V.A.C. CONTRACTOR SHALL DISCONNECT AND CAP ALL H.V.A.C. ITEMS IN EXISTING SPACES THAT ARE BEING RENOVATED AND NO LONGER REQUIRED TO REMAIN IN THE DESIGN. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO UNIT VENTILATORS, THERMOSTATS, COOLING AND HEATING PIPES AND VALVE CONTROLS. THE H.V.A.C. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL AFOREMENTIONED ITEMS ABOVE. REFER TO THE DRAWINGS AND THE SPECIFICATIONS PREPARED BY THE H.V.A.C. ENGINEER FOR FURTHER CLARIFICATIONS.

ALL REMOVED ITEMS, IF REQUIRED TO BE SALVAGED BY OWNER, SHALL BE REMOVED BY OWNER BEFORE DEMOLITION WORK STARTS.

NOTE: DURING CONSTRUCTION/RENOVATION, IF ASBESTOS IS DETECTED, THE CONTRACTOR SHALL NOTIFY THE SCHOOL DISTRICT'S ASBESTOS CONSULTANT TO VERIFY ALL MATERIAL WHERE ASBESTOS MAY BE PRESENT. IT SHALL BE REMOVED BY ASBESTOS ABATEMENT CONTRACTOR. IT SHALL BE ABATED AS CHANGE ORDER WORK. ALL IDENTIFICATION TO BE DONE WITHIN 45 DAYS OF NOTICE TO PROCEED SO THIS CONTRACTOR'S WORK WILL NOT BE AFFECTED.

**LEGEND**

	EXISTING TO REMAIN
	EXISTING TO REMOVED

NOTE: WHEN THE REMOVAL OF ANY HVAC EQUIPMENT OCCURS IN AN EXISTING MASONRY WALL, INTERIOR OR EXTERIOR, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFILL OPENING WITH MATERIALS THAT MATCH ADJACENT OPENINGS. (COORDINATE ALL OPENINGS W/HVAC DRAWINGS PRIOR TO INFILL.)

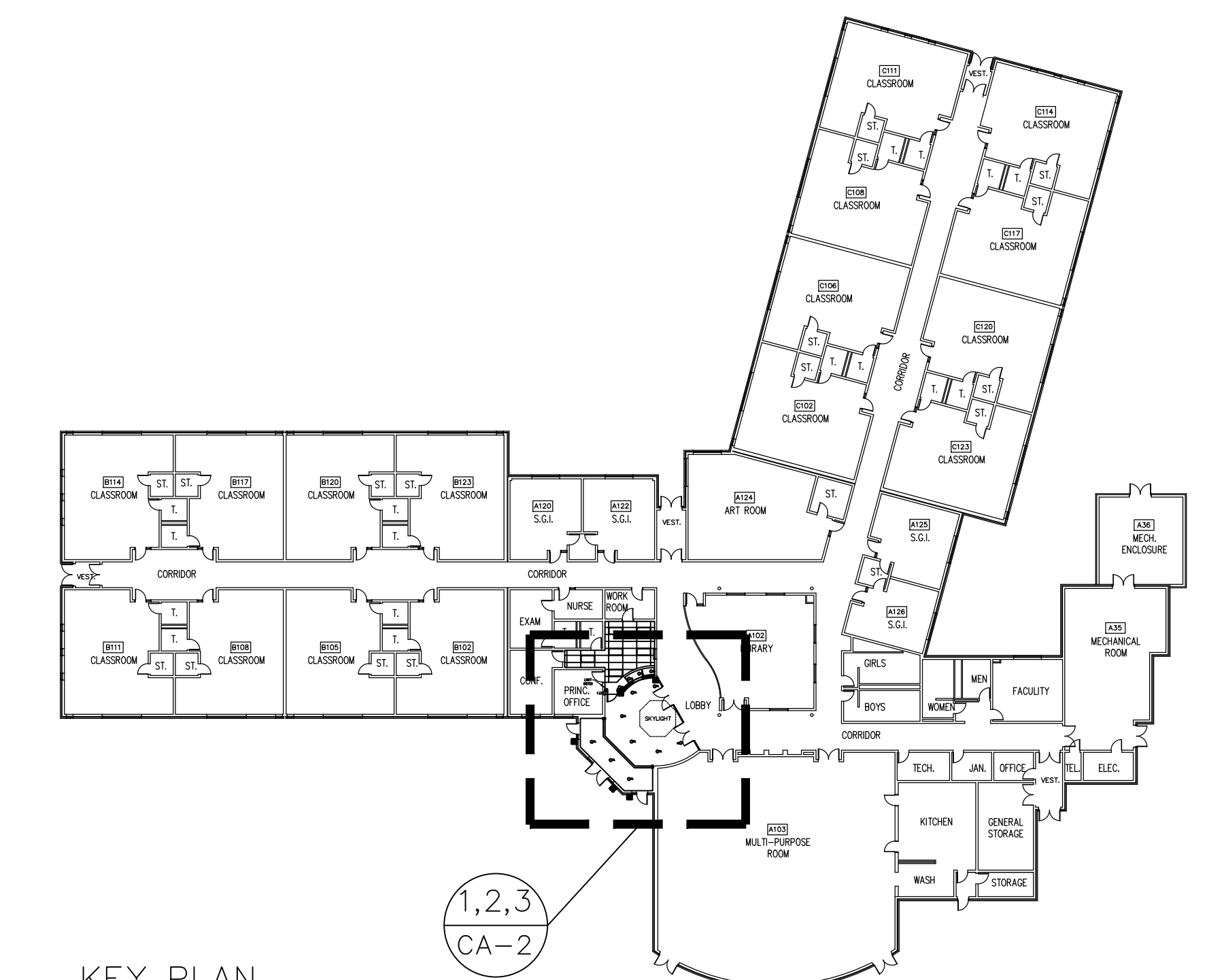
SEE MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES & DETAILS.

- 1 EXISTING FLOOR FINISH TO REMAIN. PROTECT DURING RENOVATION/CONSTRUCTION. SEE ROOM FINISH SCHEDULE.
- 2 REMOVE EXISTING STOREFRONT SYSTEM & DOORS IN IT'S ENTIRETY. PROVIDE NEW FLOOR TRANSITION THRESHOLD TO COVER GAP BETWEEN EXISTING VCT FLOOR & EXISTING RECESSED CARPET FLOOR MAT. PATCH & PAINT EXISTING GYPSUM SOFFIT & PROVIDE ALUM. JAMB CLOSURES TO COVER SIGNS OF RENOVATION. SEE FLOOR PLAN FOR NEW LAYOUT.
- 3 REMOVE EXISTING 3'-5" HIGH CMU WALL, P.LAM. COUNTERTOP W/ SUPPORT POSTS & DOUBLE ACTING DOOR IN IT'S ENTIRETY. SEE FLOOR PLAN FOR NEW LAYOUT.
- 4 EXISTING RECESSED CARPET FLOOR MAT OVER CONCRETE FLOOR TO REMAIN.
- 5 EXISTING PAINTED GYPSUM CEILING & EXISTING LIGHTING TO REMAIN.
- 6 REMOVE EXISTING CARPET FLOOR & VINYL BASE. PROVIDE NEW CARPET TILE FLOOR & VINYL BASE.
- 7 EXISTING LAY-IN CEILING ASSEMBLY & EXISTING LIGHTING TO REMAIN.

**LEGEND**

	EXISTING WALLS & PARTITIONS
	NEW GYPSUM STUD WALL
	FOR WALL TYPES SEE DWG. CA-1.
	FOR DOOR TYPES & DETAILS SEE DWG. CA-3.
	FOR INTERIOR WINDOW TYPES & DETAILS SEE DWGS. CA-3.

SYMBOL	DESCRIPTION
	EXISTING CARD ACCESS SYSTEM TO REMAIN.
	NEW CARD ACCESS SYSTEM BY OWNER. COORDINATE WITH ELEC. DRWS.
	EXISTING INTERCOM SYSTEM TO REMAIN.



KEY PLAN  
SCALE: NTS

**Garrison Architects**  
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**CENTER SQUARE SCHOOL**  
**NEW SECURITY VESTIBULE**  
 100 PEACHTWOOD DRIVE  
 LOGAN TOWNSHIP, NEW JERSEY 08085

**REVISIONS**  
 a. e.  
 b. f.  
 c. g.

Project No: 9-18C  
 Date: 05/13/19  
 Scale: 1/8"=1'-0"  
**PARTIAL FLOOR PLANS (CENTER SQ.)**  
**CA-2**



DOOR AND FRAME SCHEDULE													REMARKS				
DR. NO.	FROM ROOM NO.	TO ROOM NO.	TYPE OF ROOM	DOOR	FRAME	HARDWARE SET NO.							REMARKS				
				1 3/4" THICK DOOR U.N.O.													
				SIZE													
				MATERIAL	GAGE	DEPTH	TYPE										
				TYPE	THICKNESS	SIZE	THRESHOLD										

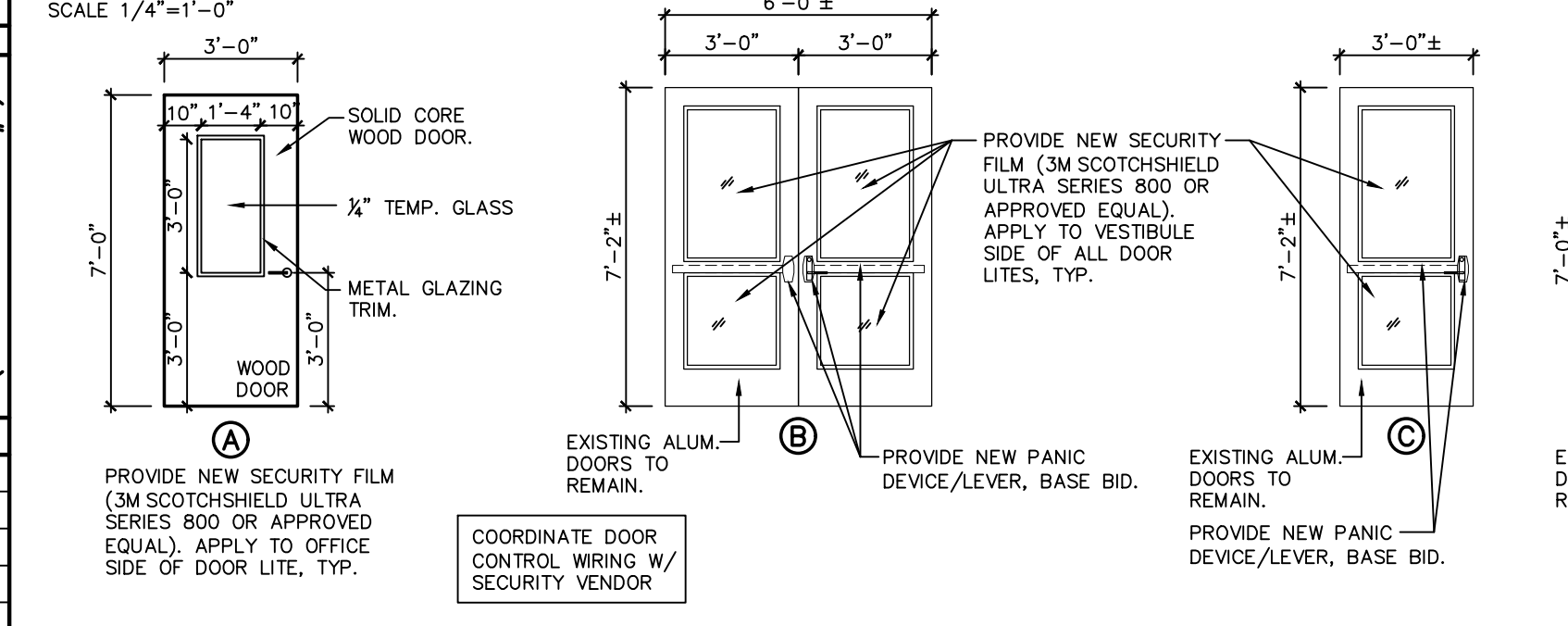
  

BASE BID																									
C100	MAIN OFFICE	SECURITY VEST	MAIN OFFICE	3'-0"	7'-0"	WOOD	A	TEMP	1/4"	16x36	001-C	HM	16	6"	1	1	2	3							
C100A	SECURITY VEST	EXTERIOR	SECURITY VESTIBULE	(2)3'-0"	7'-2"	ALUM	B	TEMP	1/4"	16x36	002-C	ALUM	16	6"	2	1	1	1							
C100A.1	SECURITY VEST	EXTERIOR	SECURITY VESTIBULE	3'-0"	7'-2"	ALUM	C	TEMP	1/4"	16x36	005-C	ALUM	16	6"	3A	1	1	1							
C100A.2	SECURITY VEST	EXTERIOR	SECURITY VESTIBULE	3'-0"	7'-2"	ALUM	C	TEMP	1/4"	16x36	005-C	ALUM	16	6"	3A	1	1	1							
C100A.3	CORRIDOR	SECURITY VEST	SECURITY VESTIBULE	(2)3'-0"	7'-0"	FRP	D	TEMP	1/4"	16x36	003-C	ALUM	16	6"	4	1	1	1							
C100A.4	CORRIDOR	SECURITY VEST	SECURITY VESTIBULE	(2)3'-0"	7'-0"	FRP	D	TEMP	1/4"	16x36	004-C	ALUM	16	6"	4	1	1	1							

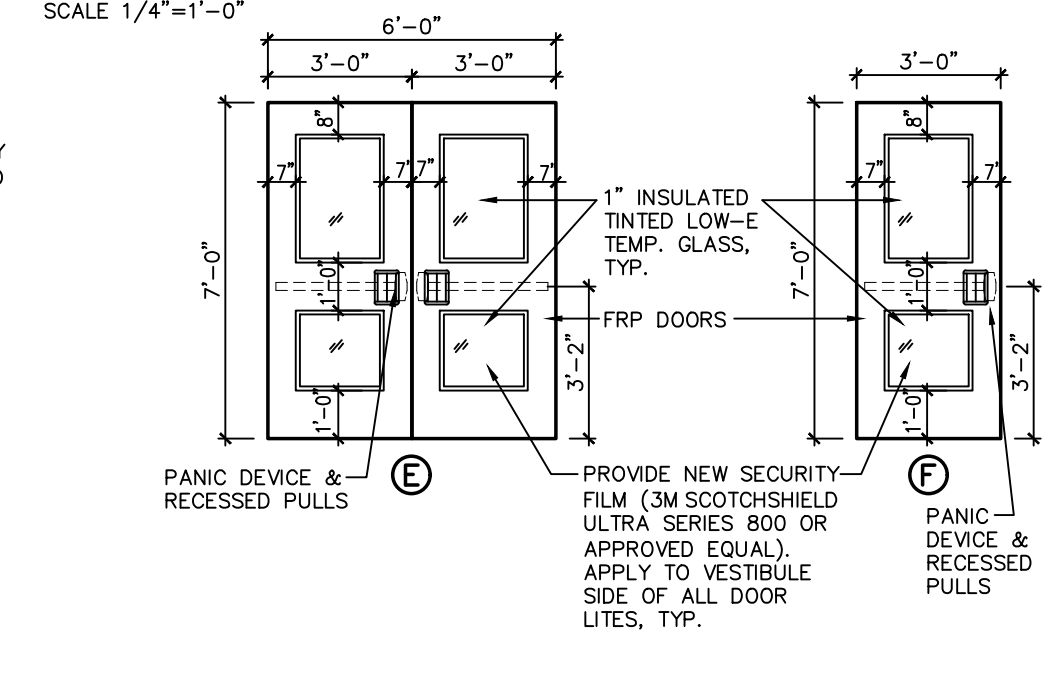
  

ALTERNATE BID #1																									
C100A	SECURITY VEST	EXTERIOR	SECURITY VESTIBULE	(2)3'-0"	7'-0"	FRP	E	TEMP	1"	FULL	ALUM	001-C-ALT	ALUM	4 1/2"	5	4	5	6							
C100A.1	SECURITY VEST	EXTERIOR	SECURITY VESTIBULE	3'-0"	7'-0"	FRP	F	TEMP	1"	FULL	ALUM	003-C-ALT	ALUM	4 1/2"	6	4	5	6							
C100A.2	SECURITY VEST	EXTERIOR	SECURITY VESTIBULE	3'-0"	7'-0"	FRP	F	TEMP	1"	FULL	ALUM	003-C-ALT	ALUM	4 1/2"	6A	4	5	6							

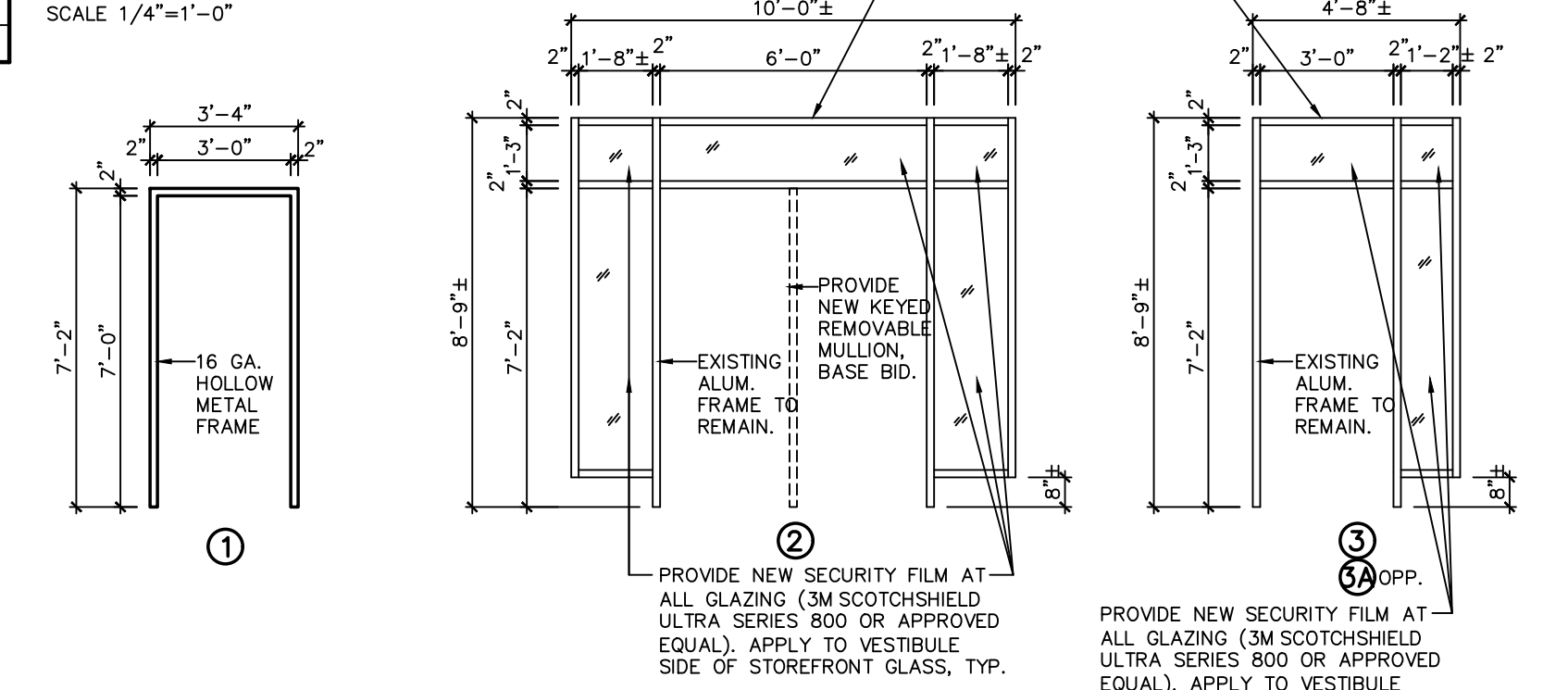
**DOOR TYPES: (BASE BID)**



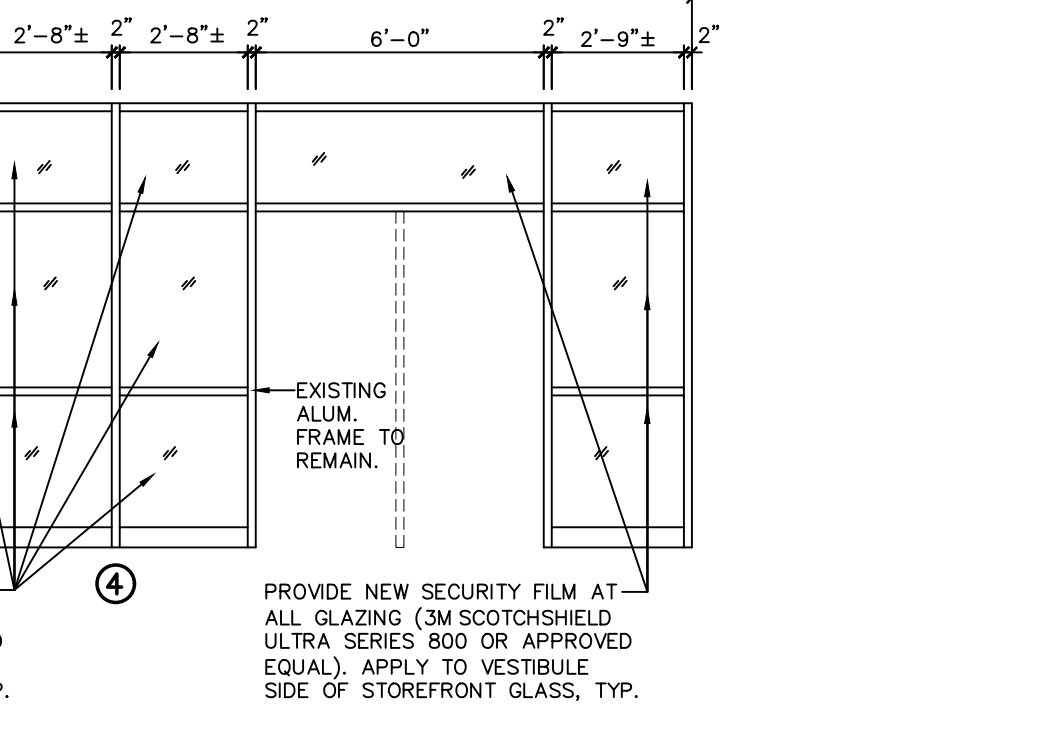
**DOOR TYPES: (ALT. BID #1)**



**FRAME TYPES: (BASE BID)**



**FRAME TYPES: (ALT. BID #1)**



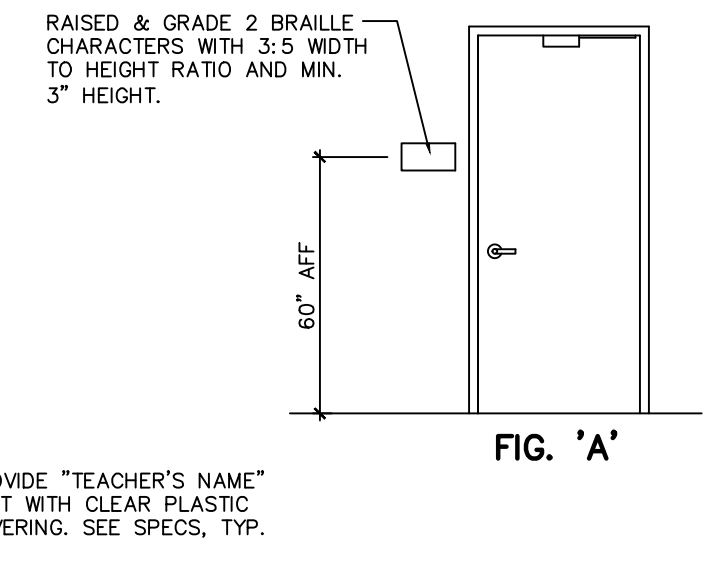
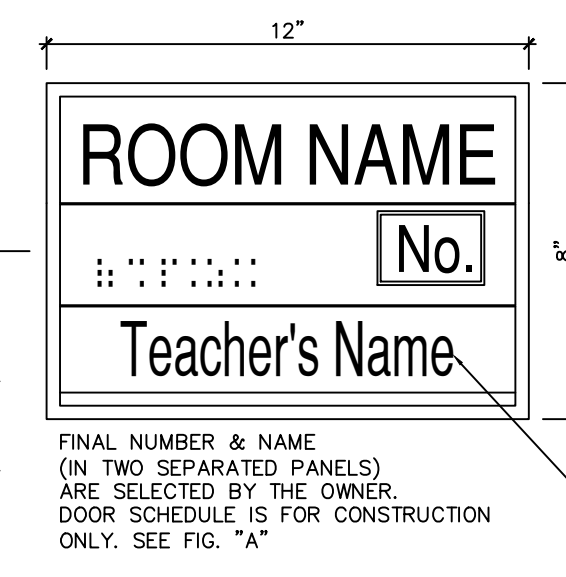
PROVIDE NEW ROOM SIGNAGE AT DOOR C100.

**SIGNAGE:** ALL SIGNAGE SHALL COMPLY WITH CABO/ANSI A117.1 ALL INTERIOR DOORS ARE TO RECEIVE SIGNAGE

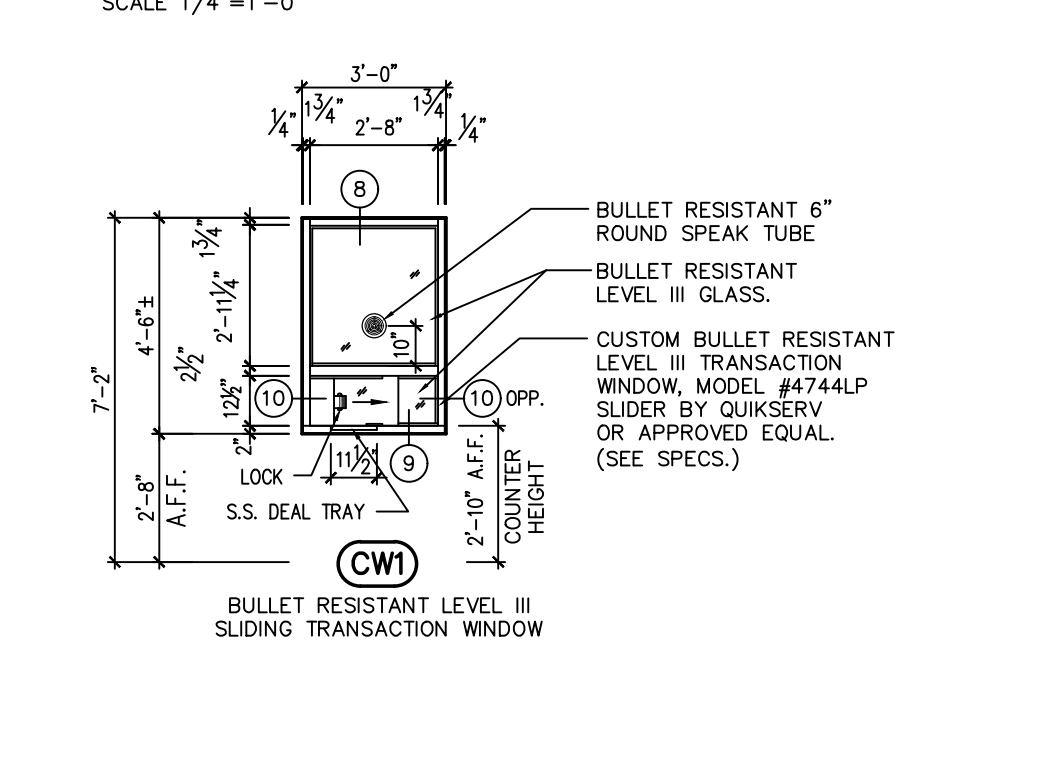
INSTALL PERMANENT SIGNS ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR AT MAX. 60" ABOVE FLOOR TO CENTER LINE OF SIGN. OVERHEAD SIGN SHALL BE INSTALLED AT 80" MIN. HEIGHT ABOVE FLOOR. SEE FIG. 9 & FIG. 8.

LETTERS AND NUMBERS SHALL HAVE WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1.

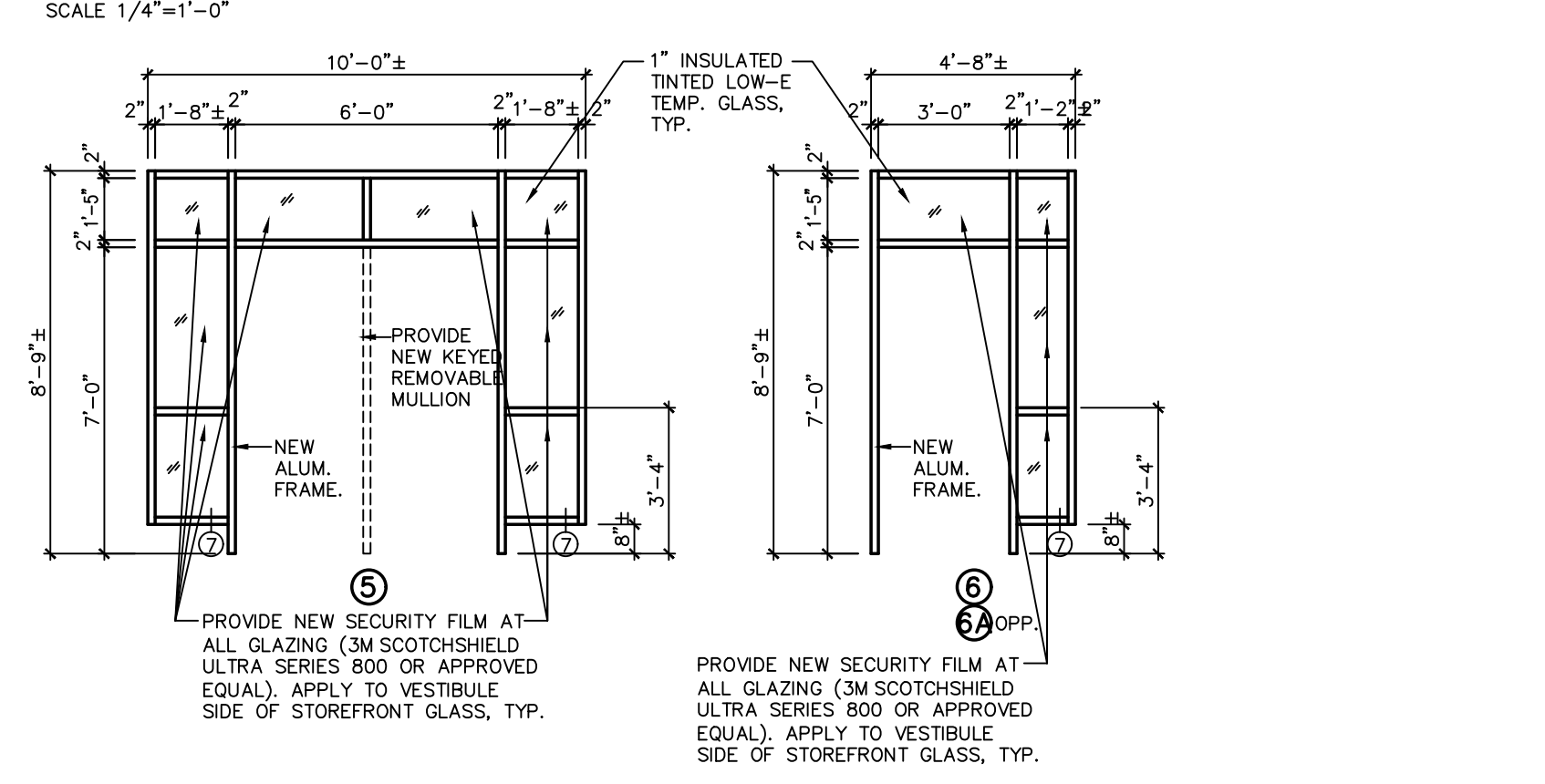
ALL LETTERS AND NUMBERS SHALL BE GRADE 2 BRAILLE, PROVIDE INTERNATIONAL SYMBOL FOR ACCESSIBILITY.



**INTERIOR WINDOW TYPES:**

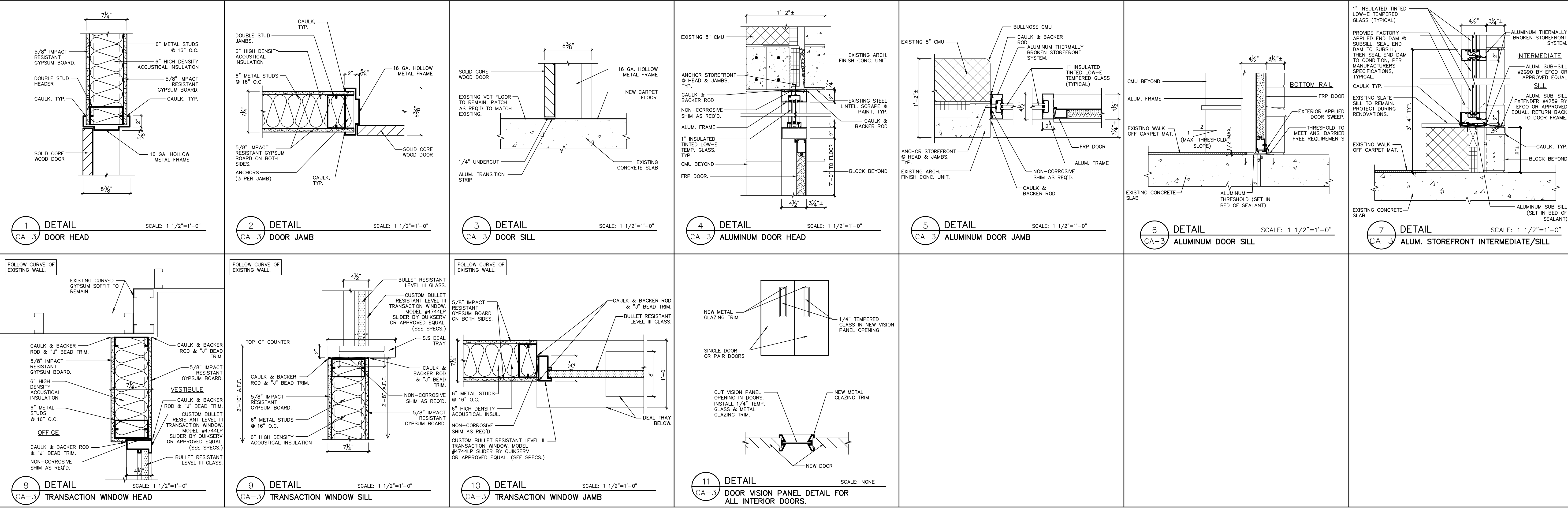


**FRAME TYPES: (ALT. BID #1)**



**GENERAL NOTES:**

- CUT VISION PANEL OPENING INTO NEW DOORS & INSTALL METAL GLAZING TRIM & TEMPERED GLASS, TYPICAL FOR ALL DOORS W/ VISION PANEL. SEE DETAIL 11/CA-3.
- ALL GLAZING OPENINGS ON WOOD DOORS SHALL BE MIN. 5" TO ANY HARDWARE.
- NEW SOLID CORE WOOD DOORS, FINISH TO BE SELECTED BY OWNER. SEE DOOR SCHEDULE FOR RATING.
- NEW HOLLOW METAL FRAME, FINISH TO BE SELECTED BY OWNER. SEE DOOR SCHEDULE FOR RATING.
- ALL DOOR HARDWARE TO BE A.D.A. COMPLIANT WITH UCC BARRIER FREE CODE IN CONJUNCTION WITH ICC/ANSI A117.1-2009.
- NEW FRP DOORS, COLOR TO BE SELECTED BY OWNER.
- NEW ALUMINUM STOREFRONT FRAMES, COLOR TO BE SELECTED BY OWNER.
- ALL DIMENSIONS OR SCALES SHOWN AS PLUS OR MINUS (±) ARE FOR INFORMATIONAL PURPOSES AND SHALL NOT BE TAKEN AS EXACT. CONTRACTOR SHALL FIELD VERIFY ALL OPENINGS.
- MODIFY OR REFURBISH AND PAINT ADJACENT SURFACES DAMAGED OR DISTURBED DURING RENOVATION, PROVIDE TRIM AS REQUIRED TO COVER SIGNS OF RENOVATION, TYP.
- EXISTING DOOR CONTACTS SHALL BE DISCONNECTED & THEN RE-ATTACHED TO NEW DOORS.
- EXISTING CARD READERS & INTERCOM SYSTEMS SHALL BE RE-USED IN NEW DOORS, PROVIDE NEW WIRING AS REQUIRED. SEE HARDWARE SCHEDULE FOR NEW ELECTRIC STRIKES, ETC.

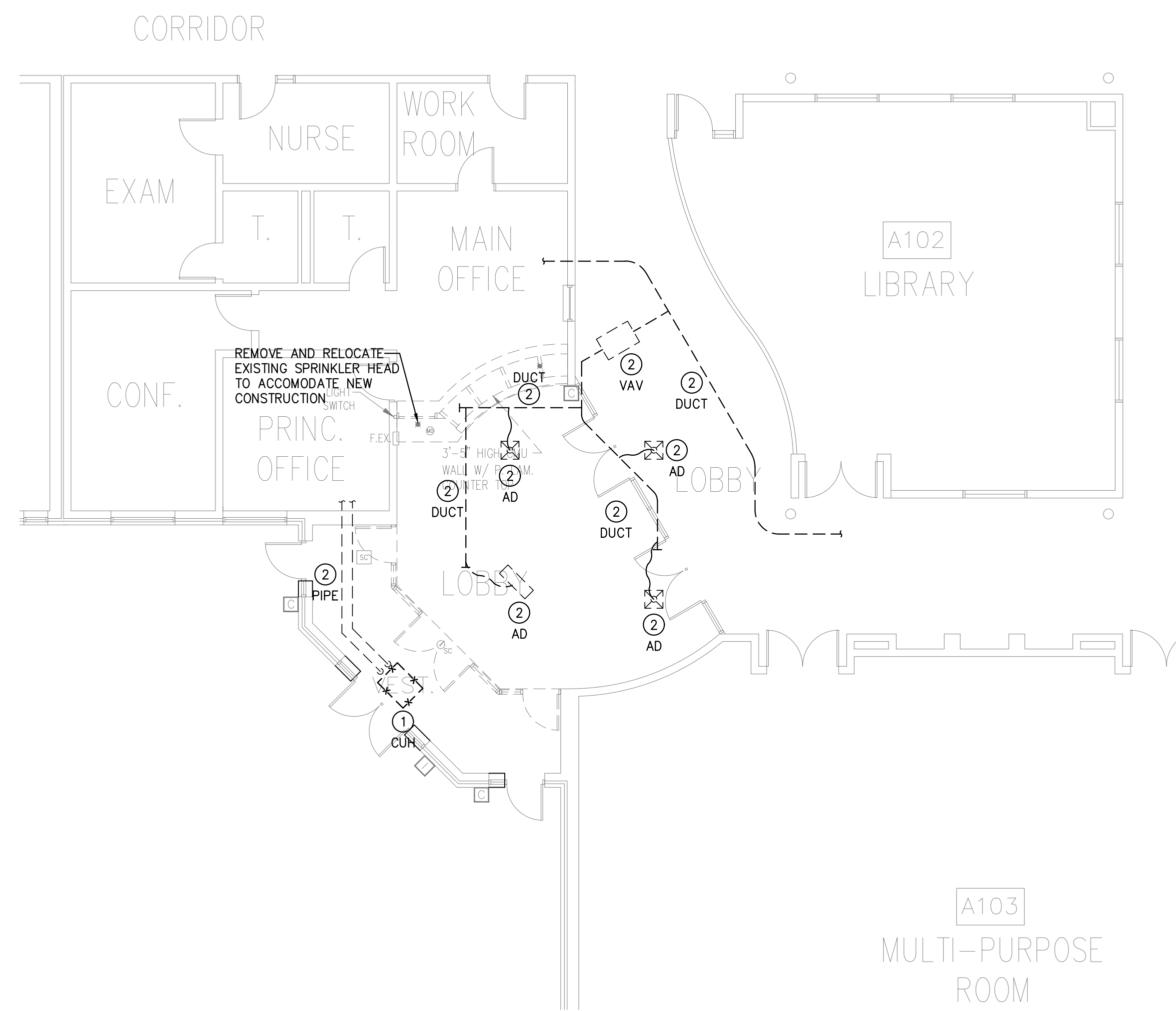


**CENTER SQUARE SCHOOL**  
**NEW SECURITY VESTIBULE**  
 100 PEACHTREE DRIVE  
 LOGAN TOWNSHIP, NEW JERSEY 08085

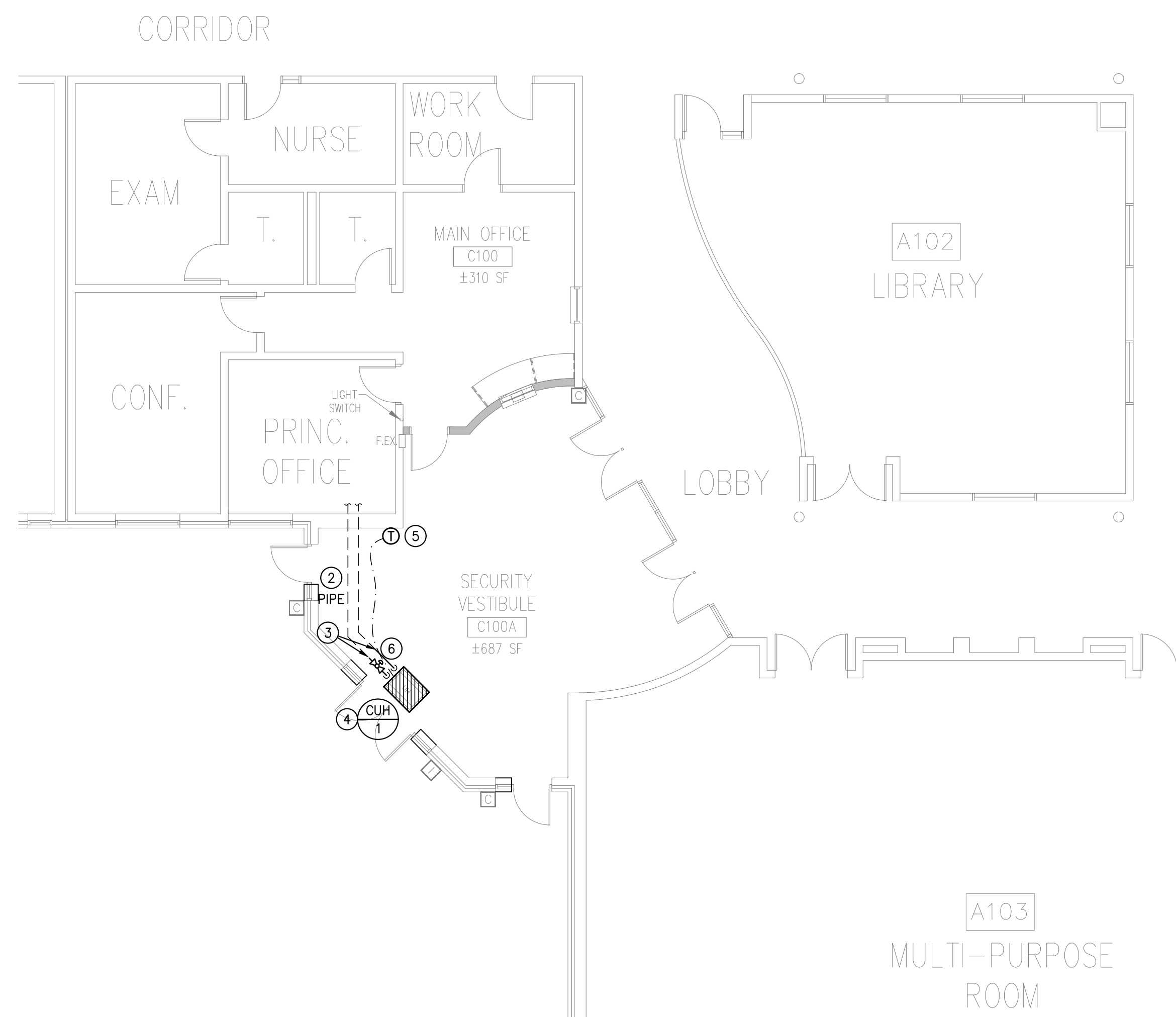
REVISIONS	
a.	e.
b.	f.
c.	g.

Project No: 9-18C  
 Date: 05/13/19  
 Scale: AS NOTED  
**DOOR SCHEDULE & DETAILS**  
**CA-3**





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



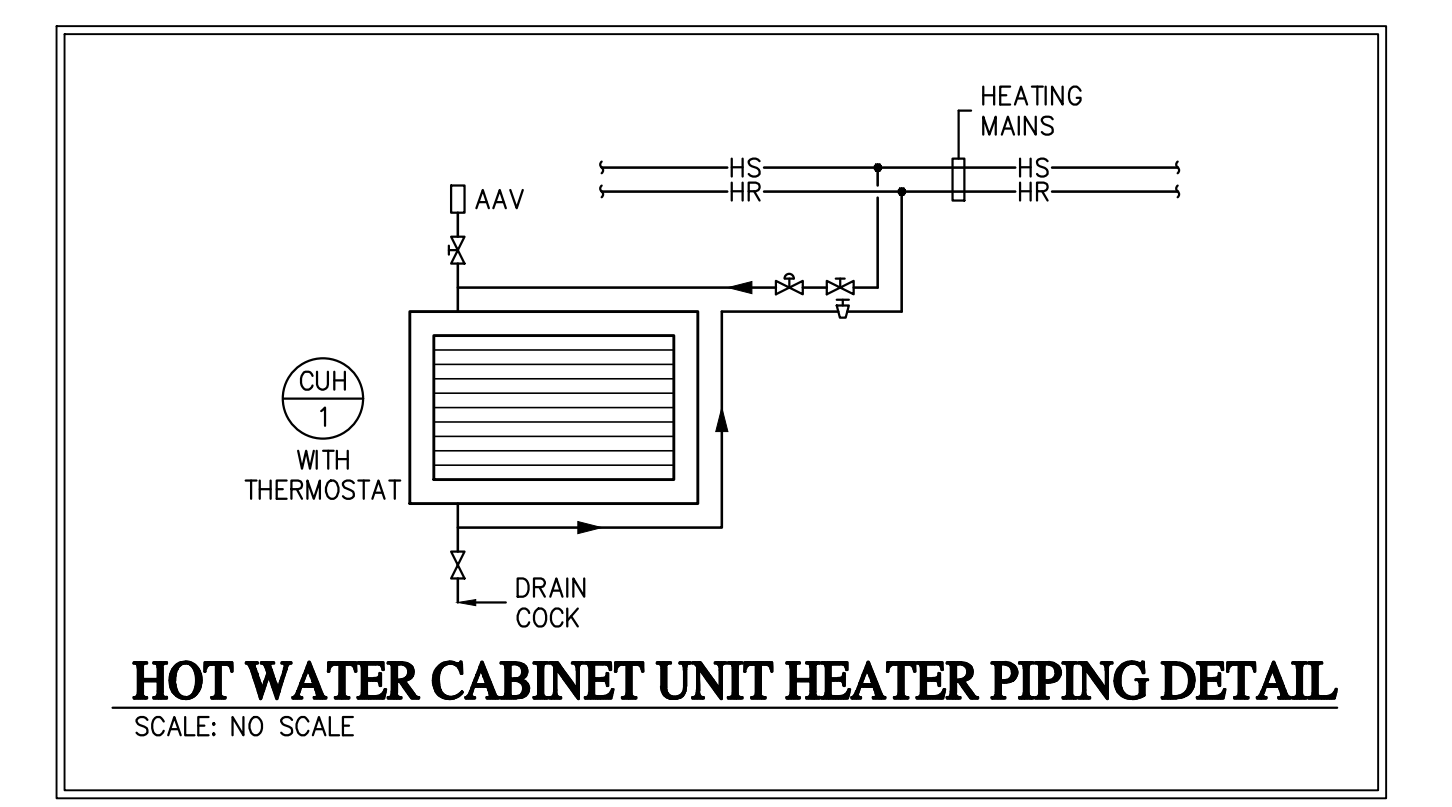
2 PARTIAL MECHANICAL FIRST FLOOR NEW WORK PLAN  
SCALE: 1/8" = 1'-0"

**MECHANICAL LEGEND**

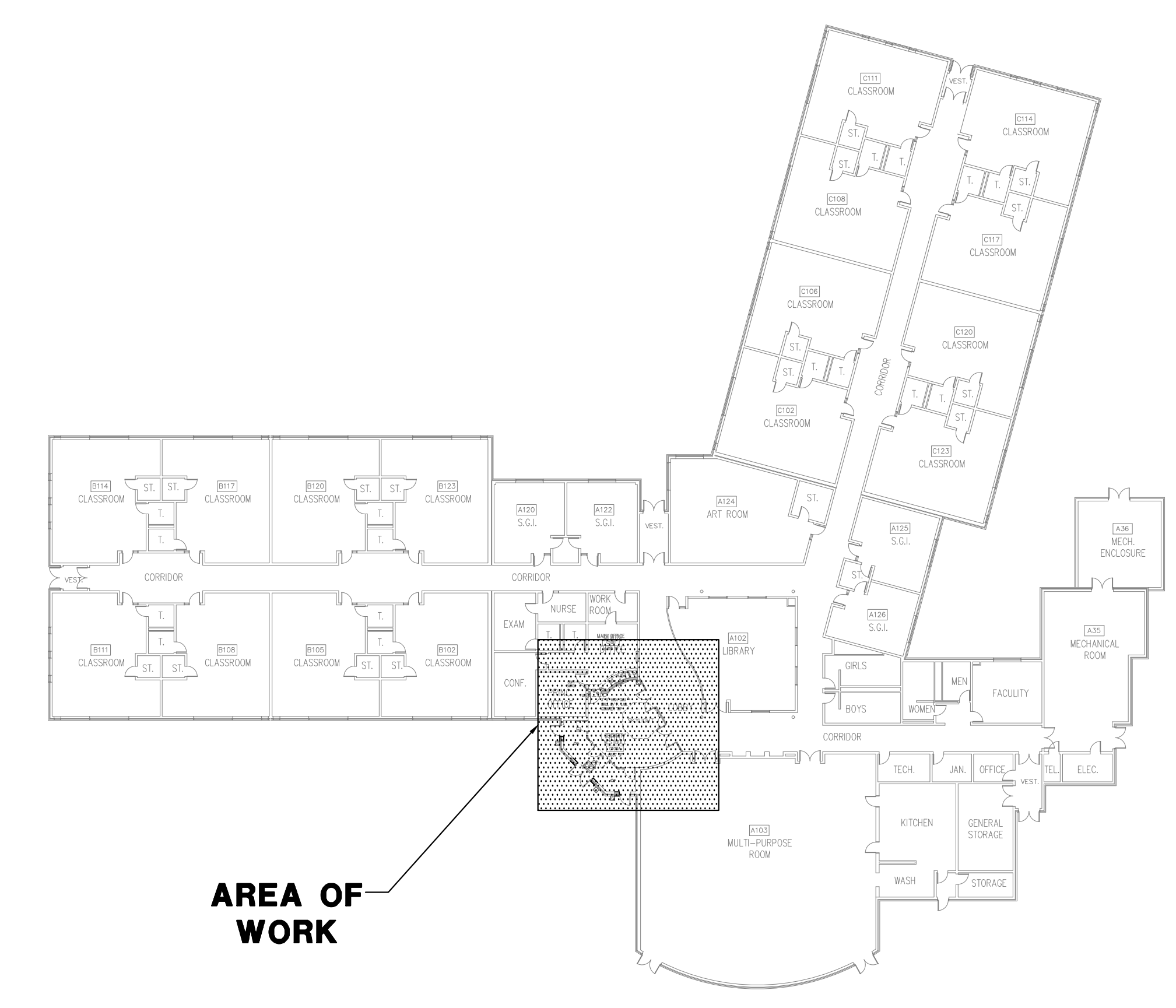
A/L	ACOUSTICALLY LINED	—C—	CONDENSATE PIPE
AP	ACCESS PANEL	—HWS—	HOT WATER HEATING SUPPLY (SYSTEM)
AD	AIR DEVICE	—HWR—	HOT WATER HEATING RETURN (SYSTEM)
ADR	AUTOMATIC DAMPER	—CHWR—	CHILLED WATER RETURN (SYSTEM)
BDD	BACK DRAFT DAMPER	—CHWS—	CHILLED WATER SUPPLY (SYSTEM)
BTJ	BETWEEN THE JOISTS	—CWR—	CONDENSER WATER RETURN
CS	CHILLED WATER SUPPLY	—CWS—	CONDENSER WATER SUPPLY
CR	CHILLED WATER RETURN	—R—	REFRIGERANT PIPE
CD	CEILING DIFFUSER	—G—	GATE VALVE
CU	CONDENSING UNIT	—C—	CHECK VALVE
CUH	CABINET UNIT HEATER	—R—	RELIEF VALVE
DBR	DOWN BLOW REGISTER	—C—	CONTROL VALVE
DL	DOOR LOUVER	—A—	AUTOMATIC THREE-WAY VALVE
DN	DOWN	—G—	GLOBE VALVE
DX	DIRECT EXPANSION COIL	—P—	PRESSURE REDUCING VALVE
(E)	EXISTING	—A—	AUTOMATIC TWO-WAY VALVE
EF	EXHAUST FAN	—P—	PLUG OR BALL VALVE
EG	EXHAUST GRILLE	—B—	BALANCING VALVE
ER	EXHAUST REGISTER	—S—	STRAINER
FDR	FIRE DAMPER	—U—	UNION
FVAV	FAN POWERED VAV UNIT	—H—	HEATING THERMOSTAT
GV	GATE VALVE	—HC—	HEATING & COOLING THERMOSTAT
HR	HOT WATER HEATING RETURN	—C—	COOLING THERMOSTAT
HS	HOT WATER HEATING SUPPLY	—T—	THERMOMETER
LAD	LOUVER/AUTO DAMPER	—P—	PRESSURE GAUGE W/GAUGE COCK
LBD	LOUVER/BACKDRAFT DAMPER	—A—	AUTOMATIC AIR VENT
LID	LINEAR DIFFUSER	—F—	FLEXIBLE CONNECTION
LMD	LOUVER/MANUAL DAMPER	—N—	NEW CONNECTION TO EXISTING
LVR	LOUVER	—P—	POINT OF DEMOLITION
MJA	MAKEUP AIR UNIT	—D—	DUCT REDUCER
MVD	MANUAL VOLUME DAMPER		
OAI	OUTSIDE AIR INTAKE		
RG	RETURN GRILLE		
RR	RETURN REGISTER		
SG	SUPPLY GRILLE		
SF	SUPPLY FAN		
SR	SUPPLY REGISTER		
SDR/FDR	SMOKE/FIRE DAMPER		
TF	TRANSFER FAN		
TWJ	THROUGH WEB OF JOIST		
TYP	TYPICAL (OF QUANTITY)		
UNO	UNLESS NOTED OTHERWISE		
VAV	VARIABLE AIR VOLUME TERMINAL UNIT		
VVT	VARIABLE AIR VOLUME TEMPERATURE UNIT		
WMS	WIRE MESH SCREEN		

**UNIT HEATER & CABINET UNIT HEATER SCHEDULE**

NO.	MBH	GPM	P.D. FT. WATER	ENTER AIR TEMP.	ENTER WATER TEMP.	CFM	FINAL AIR TEMP.	FAN H.P.	REMARKS
1	49.7	5	0.93	60	180	608	120	1/10	CABINET UNIT HEATER RECESSED, HORIZ. BOTTOM OUTLET/INLET



- MECHANICAL SHEET NOTES**
- EXISTING TO BE REMOVED. REMOVE ALL APPURTENANCES. CAP ALL FINISHED SURFACES. PATCH EXISTING SURFACES DISTURBED TO MATCH ADJACENT SURFACES.
  - EXISTING TO REMAIN. ITEM AS INDICATED. VERIFY ALL CONDITIONS IN FIELD. PROTECT DURING CONSTRUCTION.
  - CONNECT NEW HOT WATER PIPE TO EXISTING PIPE. VERIFY EXACT LOCATION OF EXISTING PIPE IN FIELD.
  - NEW RECESSED CABINET UNIT HEATER IN CEILING. VERIFY EXACT LOCATION IN FIELD.
  - NEW THERMOSTAT WITH LOCKABLE COVERS.
  - NEW HOT WATER SUPPLY AND RETURN PIPE ABOVE CEILING.



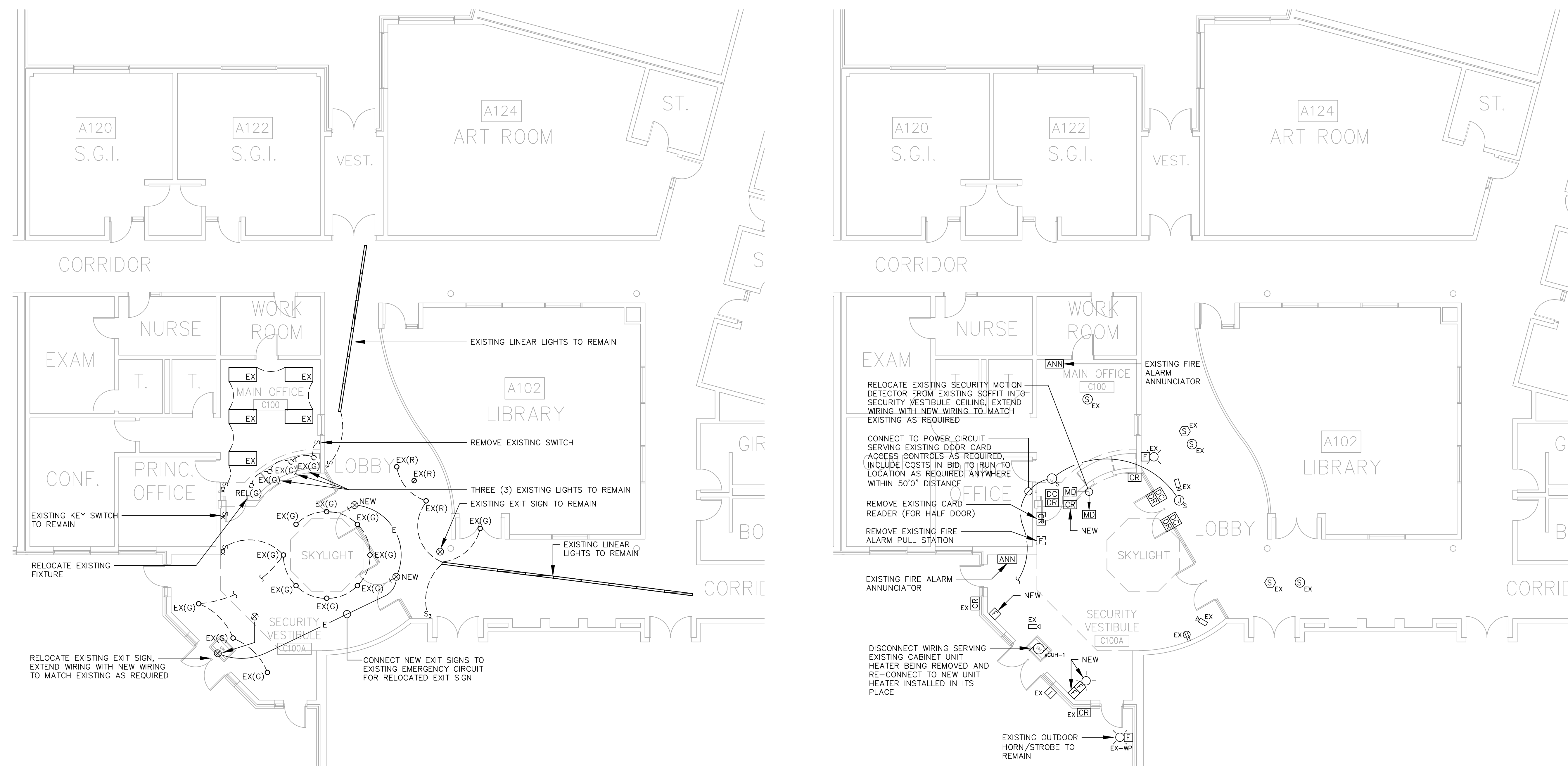
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a.	e.
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Scale: AS NOTED

**MECHANICAL PLANS NOTES & DETAILS**  
**CM-1**





**1 LIGHTING PLAN**  
 CE1  
 GRAPHIC SCALE (FEET)

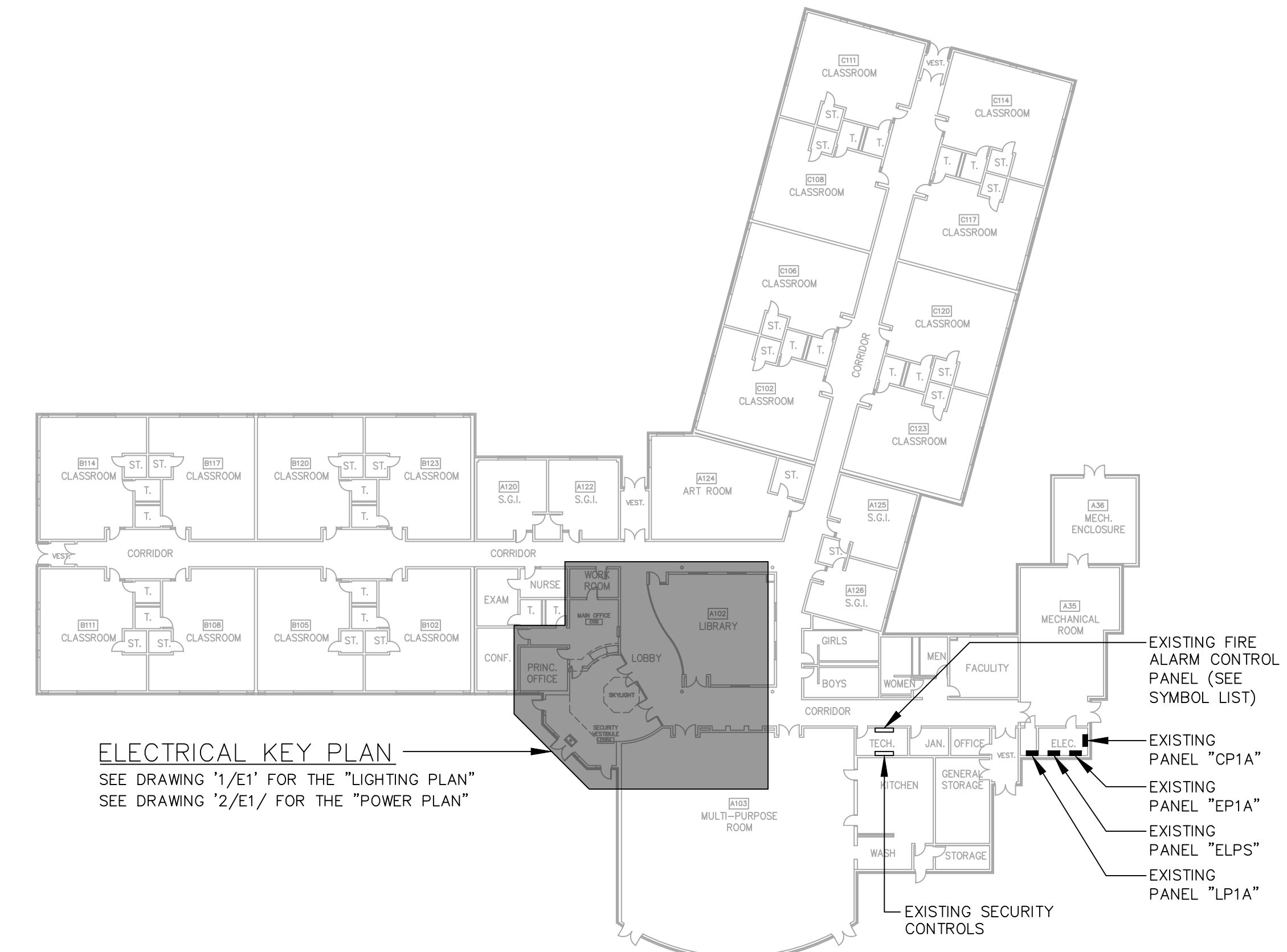
**2 POWER PLAN**  
 CE1  
 GRAPHIC SCALE (FEET)

**EQUIPMENT CONNECTION NOTES**

- EXACT DETAILS OF EQUIPMENT CONNECTIONS ARE NOT INDICATED ON THE ELECTRICAL FLOOR PLAN DRAWINGS. EQUIPMENT CONNECTIONS DETAILS ARE INDICATED ON THE EQUIPMENT CONNECTION SCHEDULES ON THE ELECTRICAL DRAWINGS. APPROXIMATE EQUIPMENT LOCATIONS ONLY ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
- THE EQUIPMENT SCHEDULES INDICATE THE EQUIPMENT NAMEPLATE ELECTRICAL CHARACTERISTICS (VOLTAGE, PHASE, AND LOAD AS WELL AS HORSEPOWER, WHERE APPLICABLE), PANEL CIRCUIT BREAKER AMPERES, LOCAL DISCONNECTING MEANS (CORD-AND-PLUG [INCLUDING NEMA CONFIGURATION] OR SWITCH), AND CIRCUIT WIRE AND CONDUIT.
- PRIOR TO ROUGH-IN, VERIFY EXACT POINT OF ELECTRICAL CONNECTION TO EACH PIECE OF EQUIPMENT IN THE FIELD TO AVOID PLACING SERVICE AT THE WRONG LOCATION.
- ELECTRICAL INFORMATION SHOWN IS BASED ON NAMEPLATE AND/OR CATALOG CUT INFORMATION, AND IS ACCURATE TO THE BEST OF THE KNOWLEDGE OF THE ENGINEER AND OWNER. HOWEVER, NO GUARANTEES ARE MADE TO ITS ACCURACY. VERIFY EXACT ELECTRICAL, OPERATING, AND CONNECTION CHARACTERISTICS AND REQUIREMENTS IN THE FIELD PRIOR TO PURCHASING ASSOCIATED ELECTRICAL EQUIPMENT (PANEL BRANCH CIRCUIT BREAKERS, RECEPTACLES, SWITCHES, ETC.) AND PRIOR TO PULLING OR WIRING IN CONDUITS AND/OR ROUGHING-IN CABLE WIRING METHODS (WHERE PERMITTED).
- PROVIDE CIRCUIT BREAKERS IN PANELS AS PER THE BREAKER AMPS ON THE EQUIPMENT SCHEDULES. FOR EXACT CIRCUITING AND CONNECTIONS AT PANELS, REFER TO THE APPROPRIATE PANEL SCHEDULES.
- PROVIDE ALL EQUIPMENT WITH A LOCAL DISCONNECTING MEANS, CONSISTING OF ONE OF THE FOLLOWING, AS INDICATED ON THE EQUIPMENT SCHEDULE (OR AS OTHERWISE VERIFIED IN THE FIELD).
  - CORD-AND-PLUG CONNECTED EQUIPMENT: PROVIDE RECEPTACLE OF NEMA CONFIGURATION OR SPECIFIC TYPE INDICATED ON THE EQUIPMENT SCHEDULE. PROVIDE SINGLE RECEPTACLES UNLESS INDICATED AS DUPLEX (DUP.), QUADRUPEX (QUAD.), OR OTHERWISE NOTED. PROVIDE RECEPTACLE TYPES COMPATIBLE WITH PLUG TYPES ON EQUIPMENT CORDS; VERIFY IN FIELD. LOCATE RECEPTACLE NEAR EQUIPMENT AS REQUIRED. WHERE EQUIPMENT CORD IS NOT LONG ENOUGH TO REACH RECEPTACLE (OR WHERE EQUIPMENT DOES NOT INCLUDE CORD), PROVIDE A NEW CORD AND PLUG (TO MATCH EXISTING) AS REQUIRED. PROVIDE MAXIMUM CORD LENGTH NOT EXCEEDING 1.8 m (6'0").
  - THERMAL OVERLOAD SWITCH (O/L SWITCH, MANUAL MOTOR STARTER): FOR ALL DIRECT CONNECTED (WITHOUT CORD AND PLUG) EQUIPMENT RATED 120 V OR 277 V AND 20 A OR LESS, PROVIDE A HORSEPOWER RATED THERMAL OVERLOAD SWITCH LOCATED AT OR ADJACENT TO THE EQUIPMENT. WHERE EQUIPMENT IS NOT POWERED OR IS POWER OPERATED BY SOURCES OTHER THAN ELECTRICITY (I.E. PNEUMATIC OPERATION, GAS FIRED, ETC.) AND WHERE ELECTRICITY IS REQUIRED ONLY FOR LOW VOLTAGE OR SOLID STATE CONTROLS, A SINGLE POLE 120/277 V SWITCH MAY BE UTILIZED.
  - DISCONNECT SWITCH: FOR ALL DIRECT CONNECTED EQUIPMENT OVER 120 V (EXCEPT 277 V SINGLE-PHASE EQUIPMENT) OR OVER 20 A, PROVIDE A SUITABLE HEAVY DUTY SAFETY SWITCH. PROVIDE AMPERE RATING AND POLES AS PER THE EQUIPMENT SCHEDULES. PROVIDE SWITCHES OF THE UN-FUSED TYPE, EXCEPT WHERE FUSE SIZES (AFU) ARE INDICATED ON THE SCHEDULE. PROVIDE FUSED DISCONNECT SWITCHES WITH FUSES WHERE INDICATED ON THE SCHEDULE. WHERE INDICATED AS (ECB), PROVIDE AN ENCLOSED CIRCUIT BREAKER WITH TRIP RATING AS SHOWN.
  - HARD WIRED DIRECT CONNECTION (J-BOX ONLY): FOR ALL DIRECT CONNECTED EQUIPMENT WHERE A DISCONNECTING MEANS IS NOT REQUIRED BY CODE AND NOT DESIRED BY THE OWNER FOR THE EQUIPMENT SERVED, PROVIDE A DIRECT HARD WIRED CONNECTION UTILIZING A SUITABLE JUNCTION OR OUTLET BOX. WHERE EQUIPMENT ENCLOSURE IS SUITABLE FOR USE AS A RACEWAY OR WIRE WAY, THE JUNCTION OR OUTLET BOX MAY BE OMITTED.
- PROVIDE CIRCUIT WIRING AND CONDUIT FROM THE APPROPRIATE PANEL (REFER TO PANEL SCHEDULES) TO THE EQUIPMENT (PASSING THROUGH ANY APPLICABLE CONTROLS AND LOCAL DISCONNECTING MEANS) AS PER THE EQUIPMENT SCHEDULES. PROVIDE INDIVIDUAL NEUTRAL (WHERE APPLICABLE) AND EQUIPMENT GROUNDING CONDUCTORS WITH EACH CIRCUIT.
- FEED FREE STANDING EQUIPMENT UNABLE TO BE SERVED BY WIRING RUN ON/ALONG WALLS OR COLUMNS WITH CONDUIT FROM THE CEILING OR UNDER THE FLOOR, SUITABLY SUPPORTED.

LUMINAIRE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	ILLUMINATION LAMPS	REMARKS
EXIT	EXIT SIGN, RED LETTERS ON WHITE FACE AND HOUSING	EMERGLITE	WW PDN "R	INTEGRAL DIFFUSED LED	INTEGRAL NCG BATTERY BACKUP; DIE CAST ALUMINUM HOUSING; CONNECT TO NEARBY LIGHTING CIRCUIT; UNIVERSAL MOUNTING (COORDINATE MOUNTING WITH ARCHITECT); QUANTITY OF FACES AS REQUIRED; PROVIDE DIRECTIONAL ARROWS WHERE SHOWN ON DRAWINGS

- NOTES:
- PROVIDE ALL LUMINAIRES AS UNIVERSAL 120 V AND 277 V OPERATION, UNLESS INDICATED OTHERWISE.
  - VERIFY ALL DEPTHS OF RECESSED LUMINAIRES PRIOR TO ORDERING, COORDINATE WITH CEILING DEPTHS.
  - WHERE LUMINAIRES ARE SPECIFIED OR OTHERWISE FURNISHED WITH TAMPER RESISTANT HARDWARE, SEE SPECIFICATIONS.
  - PROVIDE ALL LIGHT EMITTING DIODE (LED) AND FLUORESCENT LUMINAIRES WITH UNIVERSAL VOLTAGE (120-277 V) SOLID STATE ELECTRONIC DRIVERS/BALLASTS, UNLESS INDICATED OTHERWISE. PROVIDE ALL LINEAR FLUORESCENT LUMINAIRES WITH T8 ENERGY SAVING LAMPS, UNLESS INDICATED OTHERWISE.
  - FOR ALL LED AND FLUORESCENT LUMINAIRES SHOWN ON THIS SCHEDULE WITH 0-10 V DIMMABLE DRIVERS/BALLASTS (WHEREVER 0-10 V DIMMING IS INDICATED IN THE DESCRIPTION, LAMPS, OR REMARKS ABOVE OR WHERE A CATALOG NUMBER IS USED ABOVE WHICH DENOTES 0-10 V DIMMABLE DRIVERS/BALLASTS IN MANUFACTURER'S DATA), PROVIDE BOTH POWER WIRING AND 0-10 V CONTROL WIRING TO ALL LUMINAIRES. RUN CONTROL WIRING AS REQUIRED FROM ALL LIGHTS WITH 0-10 V DIMMABLE DRIVERS/BALLASTS TO THE RESPECTIVE DIMMER OR SWITCH CONTROLLING THE LIGHTING. WHERE DIMMERS ARE SHOWN ON THE DRAWINGS (INCLUDING COMBINATION SENSORS/DIMMERS), INTERCONNECT CONTROL WIRING WITH DIMMERS AS PER MANUFACTURER. WHERE DIMMERS ARE NOT SHOWN ON THE DRAWINGS, INSTALL CONTROL WIRING TO THE SWITCH (NON-DIMMED) LOCATION AND SAFELY INSULATE AND CAP OFF CONTROL WIRING AS REQUIRED (TO FACILITATE FUTURE REPLACEMENT OF NON-DIMMED SWITCH WITH DIMMER).
  - FOR ALL LUMINAIRES SHOWN ON THIS SCHEDULE AS DLC LISTED, PROVIDE ONLY LUMINAIRES QUALIFIED AND LISTED IN THE DESIGN LIGHTS CONSORTIUM (DLC) QUALIFIED PRODUCTS LISTING (QPL) AVAILABLE AT THE DLC WEBSITE (SEE BELOW). SUBMIT INFORMATION SHOWING LISTING IN THE DLC QPL AS PART OF SHOP DRAWINGS FOR REVIEW AND APPROVAL.  
[HTTP://WWW.DESIGNLIGHTS.ORG/SEARCH/](http://www.designlights.org/search/)
  - PROVIDE ALL HIGH INTENSITY DISCHARGE LUMINAIRES WITH MULTIPLE TAP TYPE BALLASTS.
  - MANUFACTURERS SHOWN ABOVE INDICATE THE BASIS OF DESIGN. OTHER MANUFACTURERS (INCLUDING, BUT NOT LIMITED, TO THOSE SHOWN IN THE LIGHTING SPECIFICATIONS) SHALL BE CONSIDERED.



**ELECTRICAL KEY PLAN**  
 SEE DRAWING '1/E1' FOR THE "LIGHTING PLAN"  
 SEE DRAWING '2/E1' FOR THE "POWER PLAN"

**ELECTRICAL KEY PLAN**  
 SCALE: 1/32" = 1'0"

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b.	f.
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**ELECTRICAL PLAN**

**CE1**



ELECTRICAL NOTES

- 1) PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), OSHA REQUIREMENTS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL OWNER REQUIREMENTS.
2) INCLUDE ALL TEMPORARY POWER AND LIGHTING, PERMIT, LICENSE, AND INSPECTION COSTS IN BID.
3) VERIFY EXACT LOCATIONS AND MOUNTING OF ALL LUMINAIRES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM, AND OTHER EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND IN THE FIELD PRIOR TO ROUGH IN.
...
25) FOR ALL ROOFTOP/ATTIC AND SIMILAR EQUIPMENT, LOCATE ALL EQUIPMENT DISCONNECTING MEANS AS REQUIRED SO THE DISCONNECTING MEANS IS ACCESSIBLE FROM, OPERABLE FROM, AND SERVICEABLE FROM...

ELECTRICAL SCOPE SPECIFICATIONS

- 1) PROVIDE ALL WIRING AS COPPER (CU) AND WITH INSULATION IDENTIFIED AS BOTH TYPES "THHN" AND "THWN", ALUMINUM (AL) IS NOT ACCEPTABLE, UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS.
2) RUN ALL NEW WIRING AS CONCEALED WHEREVER POSSIBLE, UNLESS OTHERWISE APPROVED BY THE ARCHITECT, OWNER, AND ENGINEER. WHERE WIRING IS SPECIFICALLY PERMITTED TO RUN EXPOSED IN FINISHED INTERIOR OR EXTERIOR AREAS, PAINT RACEWAYS AS DIRECTED BY THE ARCHITECT. PROVIDE ALL WIRING AS #12 AWG MINIMUM, PROVIDE ALL CONDUIT AS 21 mm (3/4") MINIMUM, UNLESS INDICATED OTHERWISE.
...
25) UPON COMPLETION OF THE PROJECT, SUBMIT A COMPLETE SET OF BLUEPRINTS MARKED UP WITH ALL AS-BUILT CONDITIONS. PROVIDE AS-BUILT DRAWINGS INCLUDING DETAILED LOCATIONS AND ROUTING OF ALL CONCEALED WIRING. SUBMIT OPERATING AND MAINTENANCE (O&M) MANUALS FOR ALL NEW EQUIPMENT SUPPLIED.
...
29) GUARANTEE AND WARRANTY ALL WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL COMPLETION.

ELECTRICAL SYMBOL LIST

Table with 2 columns: Symbol and Description. Includes symbols for switches (S, S3, S4), luminaires (L, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31, L32, L33, L34, L35, L36, L37, L38, L39, L40, L41, L42, L43, L44, L45, L46, L47, L48, L49, L50, L51, L52, L53, L54, L55, L56, L57, L58, L59, L60, L61, L62, L63, L64, L65, L66, L67, L68, L69, L70, L71, L72, L73, L74, L75, L76, L77, L78, L79, L80, L81, L82, L83, L84, L85, L86, L87, L88, L89, L90, L91, L92, L93, L94, L95, L96, L97, L98, L99, L100), and other electrical components like junction boxes, breakers, and annunciators.

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ELECTRICAL NOTES AND DETAILS
CE2

ISSUED FOR BID: 05-13-2019

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