

NORTHERN MIDDLE SCHOOL ALTERATIONS PERSON COUNTY SCHOOLS

1935 CARVER DR., ROXBORO, NC 27573

SMITHSINNETT
architecture

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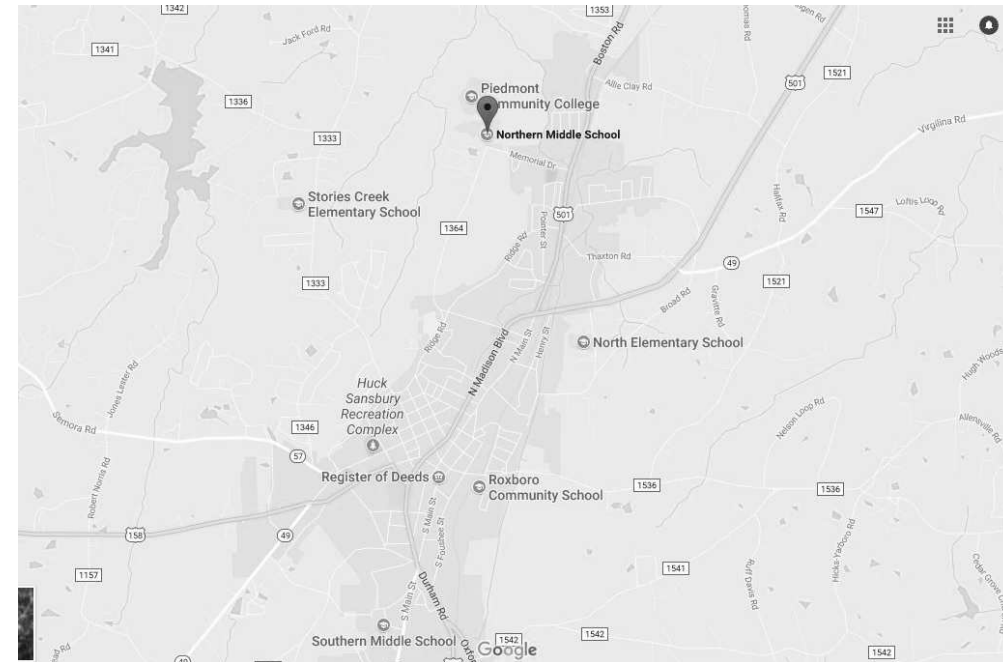
DESIGN PROFESSIONALS

ARCHITECTURE:
SMITH SINNETT ARCHITECTURE
4600 LAKE BOONE TRAIL, SUITE 205
RALEIGH, NC 27607
919.781.8582 (P)
919.781.3979 (F)
POC: PATRICK S. MCCONNELL, AIA
smcconnell@smithsinnett.com

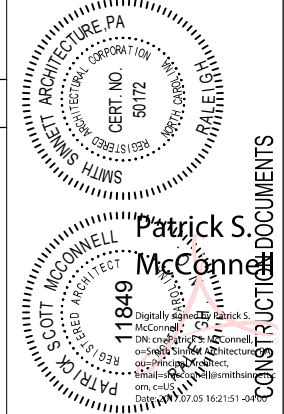
MECHANICAL AND ELECTRICAL:
PROGRESSIVE DESIGN COLLABORATIVE
3101 POPLARWOOD COURT, SUITE 320
RALEIGH, NC 27604
919.790.9989 (P)
POC: Steve Campbell, PE
scampbell@pdcengineers.com

OWNER:
Person County Schools
304 South Morgan St., Roxboro NC 27573
336.599.2191(P)
POC: LARRY KING
kingl@person.k12.nc.us

VICINITY MAP



SITE MAP



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NORTHERN MIDDLE SCHOOL ALTERATIONS
PERSON COUNTY SCHOOLS
1935 CARVER DR., ROXBORO, NC 27573

DRAWN BY: DW
CHECKED BY: PSM
COVER SHEET

2017020 5 JULY 2017

G0-01



CONSTRUCTION DOCUMENTS

2015 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

NAME OF PROJECT: NORTHERN MIDDLE SCHOOL ALTERATIONS
ADDRESS: 1935 CARVER DR., ROXBORO, NC
PROPOSED USE: EDUCATION
OWNER / AUTHORIZED AGENT: LARRY KING
CONTACT EMAIL: kingl@person.k12.nc.us
OWNED BY: CITY/COUNTY
CODE ENFORCEMENT JURISDICTION: CITY

Table with columns: FIRM, NAME, LICENSE #, TELEPHONE #, EMAIL. Lists firms like SMITH SINNETT ARCHITECTURE and PDC.

2015 EDITION OF NC CODE FOR: NEW CONSTRUCTION
EXISTING: RECONSTRUCTION
CONSTRUCTED (date): 1979
RENOVATED (date):

BASIC BUILDING DATA:
CONSTRUCTION TYPE: I-A, I-B, II-A, II-B, III-A, III-B, IV, V-A, V-B
SPRINKLERS: NO, PARTIAL, YES
FIRE DISTRICT: NO, YES (Primary)

Table with columns: FLOOR, EXISTING BUILDING (SF), ALTERATION (SF), SUBTOTAL. Shows 1st floor area.

TOTAL: 96,718 SF

PRIMARY OCCUPANCY: ASSEMBLY
ACCESSORY OCCUPANCY: ASSEMBLY
INCIDENTAL USES (Table 508.2.5): FURNACE ROOM, LABORATORIES, LAUNDRY ROOMS, etc.

ACCESSORY OCCUPANCY/ASSEMBLY
INCIDENTAL USES (Table 508.2.5): FURNACE ROOM, LABORATORIES, LAUNDRY ROOMS, etc.

INCIDENTAL USES (Table 508.2.5): FURNACE ROOM, LABORATORIES, LAUNDRY ROOMS, etc.

INCIDENTAL USES (Table 508.2.5): FURNACE ROOM, LABORATORIES, LAUNDRY ROOMS, etc.

SPECIAL USES: 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427
SPECIAL PROVISIONS: 509.2, 509.3, 509.4, 509.5, 509.6, 509.7, 509.8, 509.9
MIXED OCCUPANCY: NO
INCIDENTAL USE SEPARATION (508.2.5): THIS SEPARATION IS NOT EXEMPT AS A NON-SEPARATED USE...

Actual Area of Occupancy A, Allowable Area of Occupancy A, Actual Area of Occupancy B, Allowable Area of Occupancy B

Table with columns: STORY NO., DESCRIPTION AND USE, BLDG AREA PER STORY, TABLE 503, AREA FOR FRONTAGE INCREASE, AREA FOR SPRINKLER INCREASE, ALLOWABLE AREA OR UNLIMITED, MAXIMUM BUILDING AREA

DOES NOT APPLY

1 Frontage area increases from Section 506.2 are computed thus:
2 The sprinkler increase per Section 506.3 is as follows:

ALLOWABLE HEIGHT

Table with columns: TYPE OF CONSTRUCTION, BUILDING HEIGHT IN FEET, BUILDING HEIGHT IN STORIES

FIRE PROTECTION REQUIREMENTS

Table with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE, RATING, DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, DESIGN # FOR RATED PENETRATION, DESIGN # FOR RATED JOINTS

DOES NOT APPLY

LIFE SAFETY SYSTEM REQUIREMENTS

Table with columns: EMERGENCY LIGHTING, EXIT SIGNS, FIRE ALARM, SMOKE DETECTION SYSTEM, PANIC HARDWARE

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET #...G1-01
■ FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
□ ASSUMED AND REAL PROPERTY LINE LOCATIONS
□ EXISTING STRUCTURES WITHIN 30' OF THE PROPOSED BUILDING

Table with columns: TOTAL UNITS, ACCESSIBLE UNITS REQ'D, ACCESSIBLE UNITS PROVIDED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE UNITS PROVIDED

ENERGY SUMMARY

CLIMATE ZONE: 3 4 5

METHOD OF COMPLIANCE:
■ PRESCRIPTIVE (ENERGY CODE)
■ PERFORMANCE (ENERGY CODE)
■ PRESCRIPTIVE (ASHRAE 90.1)
■ PERFORMANCE (ASHRAE 90.1)

DOES NOT APPLY

THERMAL ENVELOPE

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY:
R-VALUE OF INSULATION:
SKYLIGHTS IN EACH ASSEMBLY:
U VALUE OF SKYLIGHT:
TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY:
EXTERIOR WALLS (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY:
R-VALUE OF INSULATION:
OPENINGS (WINDOWS OR DOORS WITH GLAZING) U VALUE OF ASSEMBLY:
SOLAR HEAT GAIN COEFFICIENT:
PROJECTION FACTOR:
DOOR R-VALUES:

WALLS BELOW GRADE (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY:
R-VALUE OF INSULATION:
FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY:
R-VALUE OF INSULATION:
FLOOR SLAB ON GRADE
DESCRIPTION OF ASSEMBLY:
R-VALUE OF INSULATION:
HORIZONTAL/VERTICAL REQUIREMENT:
SLAB HEATED:

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone:
Winter dry bulb:
Summer dry bulb:
Building heating load:
Building cooling load:
Mechanical Spacing Conditioning System
Unitary:
description of unit:
heating efficiency:
cooling efficiency:
Boiler:
Size category. If oversized, state reason:
Chiller:
Size category. If oversized, state reason:
List equipment efficiencies:

ELECTRICAL SUMMARY

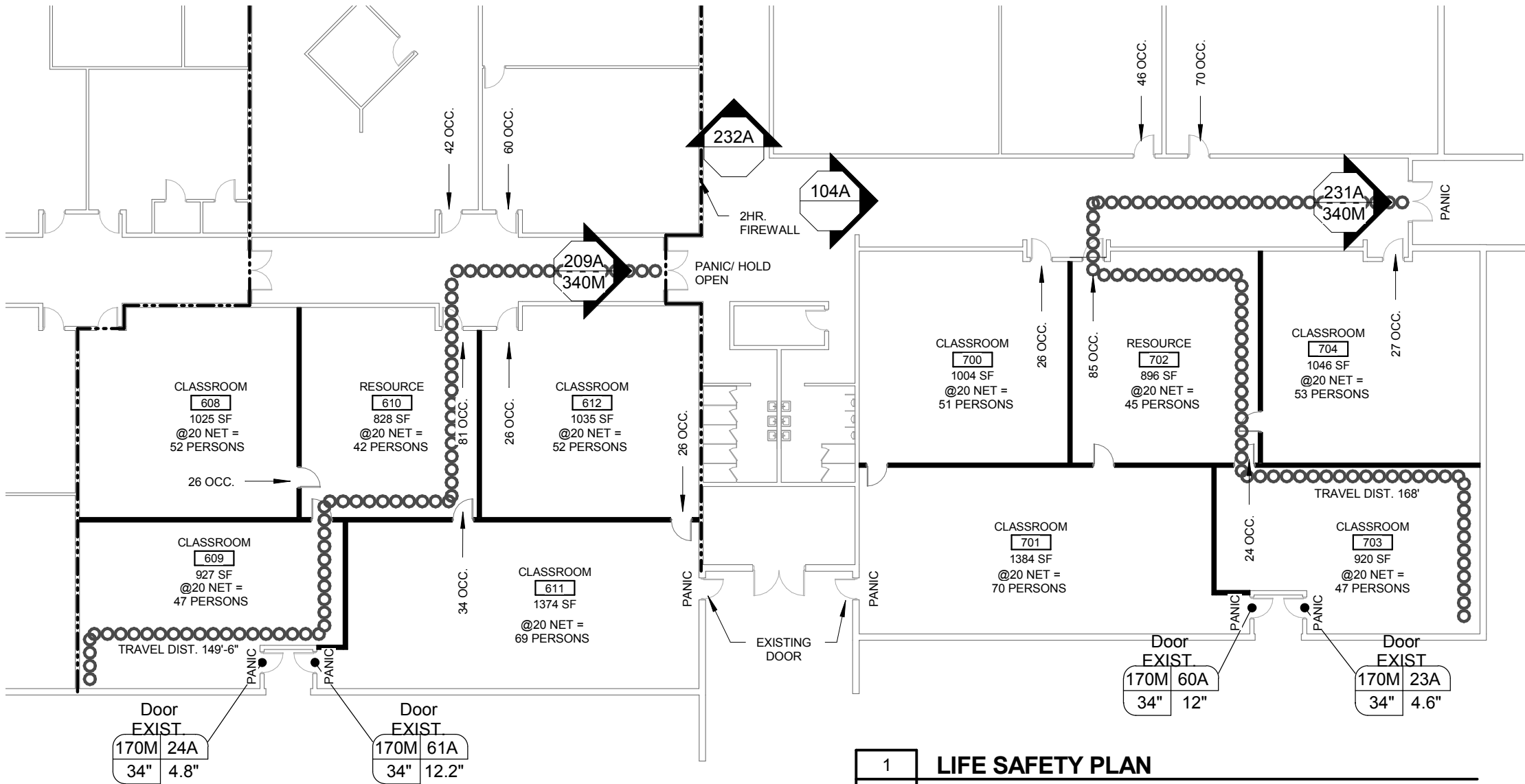
ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance:
Engery Code:
ASHRAE 90.1:
Lighting schedule (each fixture type)
Additional Prescriptive Compliance
506.2.1 More Efficient Mechanical Equipment
506.2.2 Reduced Lighting Power Density
506.2.3 Energy Recovery Ventilation Systems
506.2.4 Higher Efficiency Service Water Heating
506.2.5 On-Site Supply of Renewable Energy
506.2.6 Automatic Daylighting Control Systems



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NO CHANGE IN FLOOR AREA

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1 LIFE SAFETY PLAN
G1-01 1" = 20'-0"

LIFE SAFETY LEGEND

- EXISTING 2 HR RATED WALL
- ACCESSIBLE ROUTE
- MAXIMUM TRAVEL DISTANCE (200'-0" - NON SPRINKLED)
- DOOR MARK
- MAXIMUM EGRESS LOAD
- ANTICIPATED EGRESS LOAD
- REQUIRED WIDTH
- EGRESS WIDTH
- ACTUAL ROOM AREA
- OCCUPANCY FACTOR PER CODE
- TOTAL OCCUPANTS PER ROOM PER CODE
- VOLUME OF PERSONS - ACTUAL VS. CAPACITY

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Patrick S. McConnell
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PERSON COUNTY SCHOOLS
1935 CARVER DR., ROXBORO, NC 27573

DRAWN BY: xxx

CHECKED BY: PSM

LIFE SAFETY PLAN

2017020 5 JULY 2017

G1-01

AREA 600 & 700 : WORK INCLUDES REMOVAL OF EXISTING PARTITIONS, CARPET FLOORING AND LAY-IN CEILING TILE AND GRID. NEW PARTITIONS, FLOORING AND CEILING WORK IS SHOWN ON THE FOLLOWING DRAWING SHEETS.

AREA 2 : BACK WALL AT STAGE -- REMOVAL/REPLACEMENT OF EARTH BERM AND ADDITION OF NEW WATERPROOFING SYSTEMS AT EXTERIOR FACE OF WALL. REPAIR WATER DAMAGE ON INTERIOR FACE OF WALL.

AREA 3 : REMOVE SERIES OF FOUR(4) HOLLOW METAL DOORS. PATCH AND REPAIR ASSOCIATED FLOORING

AREA 2
(ALTERNATE 1)

3
A1-03

1
A1-03

AREA 3
(ALTERNATE 2)

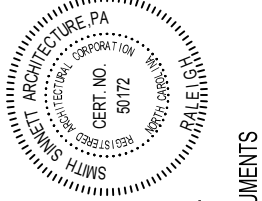
AREA 700
(BASE BID)

AREA 600
(BASE BID)

3
A0-01 **OVERALL FLOOR PLAN**
1" = 30'-0"

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DRAWN BY: DW

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OVERALL PLAN

2017020 5 JULY 2017

A0-01

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PRODUCT SPECIFICATIONS	
DOORS AND FRAMES	SEE DOOR SCHEDULE FOR DOOR AND FRAME SIZES. FRAMES SHALL COMPLY WITH ANSI/SDI A250.8 AND ANSI/SDI A250.6 . DOORS TO BE PREMIUM GRADE A CLEAR STAINED WHITE MAPLE, BOOK MATCH 5-PLY VENEER ON ALL VERTICAL FACES -- HOT-PRESS BONDED TO PARTICLEBOARD CORES (ANSI A208.1)-- WDMA I.S.1-A PERFORMANCE GRADE: HEAVY DUTY. HOLLOW METAL FRAMES MANUFACTURERS: 1. AMWELD BUILDING PRODUCTS, LLC. 2. CECO DOOR PRODUCTS; AN ASSA ABLOY GROUP COMPANY. 3. STEELCRAFT; AN INGERSOLL-RAND COMPANY SOLID CORE WOOD DOOR MANUFACTURERS: 1. EGGERS INDUSTRIES. 2. WEYERHAUSER, CO. 3. MOHAWK FLUSH DOORS, INC.; A MASONITE COMPANY.
HARDWARE	MATCH EXISTING HARDWARE - - HINGES AND HANDSETS. <u>CYLINDERS BY OWNER</u>
GYPSUM BOARD	5/8" TYPICAL. COMPLYING WITH ASTM C 36/C 36M OR ASTM C 1396/C 1396M, AS APPLICABLE TO TYPE OF GYPSUM BOARD INDICATED AND WHICHEVER IS MORE STRINGENT. MANUFACTURERS: CLARK STEEL FRAMING, INC. ; CONSOLIDATED SYSTEMS, INC. ; DIETRICH INDUSTRIES, INC. ; NATIONAL GYPSUM CO.- GOLD BOND BUILDING PRODUCTS DIVISION.
METAL FRAMING	INTERIOR METAL FRAMING TO COMPLY WITH ASTM C645, 24GA., SIZES AS INDICATED ON DRAWINGS. MANUFACTURERS: CLARK STEEL FRAMING, INC. ; CONSOLIDATED SYSTEMS, INC. ; DIETRICH INDUSTRIES, INC. ; NATIONAL GYPSUM CO.- GOLD BOND BUILDING PRODUCTS DIVISION.
CEILING GRID AND ACCOUSTICAL TILE	COMPLY WITH ASTM E 1264. 2'X2', 3/4" THICKNESS, SQUARE EDGE. BASIS OF DESIGN - ARMSTRONG 1713 SCHOOL ZONE FINE FISSURED, USG 22421 RADAR EDUCATION OR EQUAL BY CERTAINTEED HHF-454-HNR. MANUFACTURERS: CERTAINTEED ; USG INTERIORS, INC ; ARMSTRONG WORLD INDUSTRIES, INC.
PAINT	FIELD COLOR BASIS OF DESIGN: SHERWIN WILLIAMS #7006 - OTHER BRANDS TO COLOR MATCH. ACCENT COLOR(S) TO BE SELECTED BY OWNER MANUFACTURERS: DURON ; PITTSBURGH PAINTS ; SHERWIN WILLIAMS
ACCOUSTICAL SOUND BATTS	UNFACED, GLASS-FIBER BLANKET INSULATION COMPLYING WITH ASTM C 665 AND ASTM E 136 FOR COMBUSTION. 2 LAYERS OF 3 1/2" IN PARTITIONS AND 5 1/2" THICKNESS 48" EITHER SIDE OF PARTITIONS ABOVE CEILING AS SHOWN ON DRAWINGS. MANUFACTURERS: CERTAINTEED CORPORATION ; JOHNS MANVILLE ; OWENS CORNING.
SEALANT AND CAULK	INTERIOR GENERAL PURPOSE URETHANE SEALANTS AND CAULKS. MANUFACTURERS: CHEM-CALK 500; BOSTIK CONSTRUCTION PRODUCTS DIV. ; DUALTHANE; W.R. MEADOWS, INC. ; DYMERIC; TREMCO INC.
SPECIAL COATINGS	HIGH PERFORMANCE EPOXY PAINT MANUFACTURERS: GLIDDEN-"ICI" PAINT STORES, INC. (ICI) ; PPG INDUSTRIES, INC. (PPG) ; SHERWIN-WILLIAMS COMPANY (SW). MASONRY - BLOCK FILLER MANUFACTURERS: ICI 4000 INTERIOR/EXTERIOR HEAVY DUTY ACRYLIC BLOCK FILLER ; SW- B42W46 INTERIOR/EXTERIOR HEAVY DUTY ACRYLIC BLOCK FILLER ; APPROVED EQUAL BY BM, PPG, MAB.
DAMPROOFING	MANUFACTURERS: HENRY 789 FIBERED ASPHALT EMULSION DAMP PROOFING OR EQUAL
RESILIENT BASE	4" COVE BASE WITH TOE, .125" THICK. VULCANIZED RUBBER. COMPLYING WITH ASTM F 1861 MANUFACTURERS: ARMSTRONG WORLD INDUSTRIES, INC. ; JOHNSONITE. ; ROPPE CORPORATION, USA.
CARPET	24"X24" CARPET SQUARES, MULTI-LEVEL PATTERN LOOP PILE, DENSITY - 5,600 MIN., GAGE - 1/12", MIN 8 STITCHES/INCH. BASIS OF DESIGN - MILLIKEN 6.6 NYLON STAIN RESISTANT MANUFACTURERS: MILLIKEN 6.6 NYLON STAIN RESISTANT; BOLYU ; SHAW CONTRACT

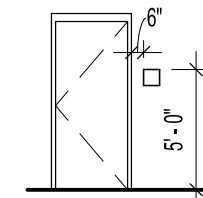
NOTE: 7'-0" DOORS WITH 4" HEAD FRAMES ARE ACCEPTABLE IF LEAD TIME IS PROBLEMATIC

DOOR SCHEDULE

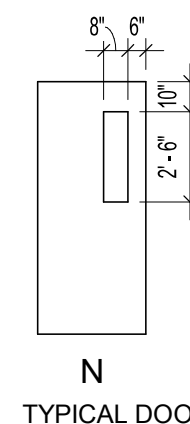
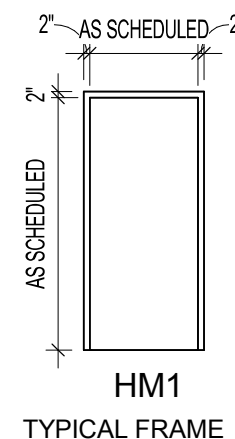
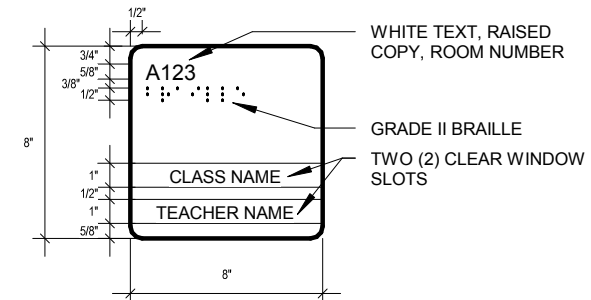
MARK	DOOR SIZE			FRAME					HARDWARE SET	FIRE RATING	REMARKS			
	WIDTH	HEIGHT	THK	MAT	TYPE	LVS	MAT	TYPE				DETAILS		
												HEAD	JAMB	THRESH
608A	3' - 0"	7' - 2"	1 3/4"	WD	N	1	HM	HM1	4/A1-01	3/A1-01	SEE SPEC.	--		
609	3' - 0"	7' - 2"	1 3/4"	WD	N	1	HM	HM1	4/A1-01	3/A1-01		--		
611	3' - 0"	7' - 2"	1 3/4"	WD	N	1	HM	HM1	4/A1-01	3/A1-01		--		
612A	3' - 0"	7' - 2"	1 3/4"	WD	N	1	HM	HM1	4/A1-01	3/A1-01		--		
700A	3' - 0"	7' - 2"	1 3/4"	WD	N	1	HM	HM1	4/A1-01	3/A1-01		--		
701	3' - 0"	7' - 2"	1 3/4"	WD	N	1	HM	HM1	4/A1-01	3/A1-01		--		
703	3' - 0"	7' - 2"	1 3/4"	WD	N	1	HM	HM1	4/A1-01	3/A1-01		--		
704A	3' - 0"	7' - 2"	1 3/4"	WD	N	1	HM	HM1	4/A1-01	3/A1-01		--		

****SIGNAGE TO BE PROVIDED BY OWNER****

SIGNAGE ELEVATION & NOTES

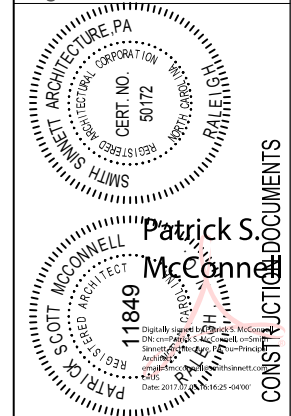


- ROOM SIGNAGE TO BE LOCATED ON THE WALL ADJACENT TO THE STRIKE SIDE OF THE DOOR
- MOUNTING LOCATION AND HEIGHT SHOWN IS TYPICAL AND TO THE CENTERLINE OF THE SIGN
- VERIFY NON-TYPICAL SIGN LOCATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION
- AT DOORS WITH SIDELIGHTS ON THE STRIKE SIDE OF JAMB, USE DOUBLE SIDED TAPE ONLY. PROVIDE A BLANK SOLID SIGN OF SAME COLOR AND SIZE ON OPPOSITE SIDE
- COORDINATE ROOM NAME AND NUMBER WITH OWNER
- FOR ROOMS ACCESSED BY A VESTIBULE, LOCATE ROOM SIGNAGE OUTSIDE VESTIBULE



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NORTHERN MIDDLE SCHOOL ALTERATIONS
PERSON COUNTY SCHOOLS

1935 CARVER DR., ROXBORO, NC 27573

DRAWN BY: Author
CHECKED BY: PSM

PROJECT NOTES

2017020 5 JULY 2017

A0-02

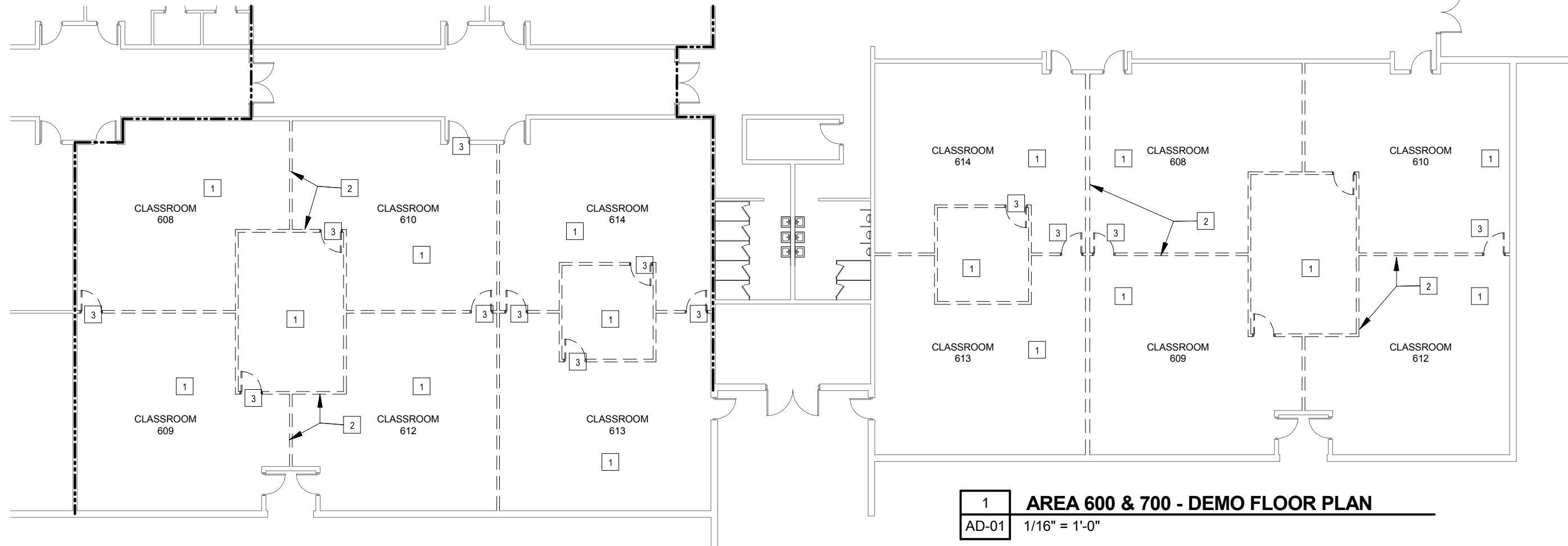
CONSTRUCTION DOCUMENTS

GENERAL DEMOLITION NOTES

1. ALL CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY INCONSISTENCIES IN WRITING PRIOR TO STARTING ANY WORK.
2. FIELD VERIFY ALL SHOWN DIMENSION W/ EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION ACTIVITIES. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WEEKLY AND/OR DAILY REMOVAL AND PROPER DISPOSAL OF ALL DEBRIS ACCUMULATED DURING DEMOLITION & CONSTRUCTION.
4. ANY FLOOR, CEILING, WALL, OR OTHER MATERIALS, INCLUDING FINISHES, IN AREAS TO REMAIN ARE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT. ANY MATERIALS DAMAGED DURING CONSTRUCTION OR DEMOLITION, SHALL BE RETURNED TO THEIR ORIGINAL STATE, OR IMPROVED AS INDICATED BY THE OWNER OR ARCHITECT, OR REPLACED WITH A NEW MATERIAL TO MATCH ADJACENT MATERIALS, TYPICAL.
5. THE DRAWING REPRESENTS THE GENERAL CHARACTER OF THE EXISTING CONDITIONS. BIDDERS ARE REQUIRED TO FIELD VERIFY AND QUANTIFY THE EXISTING CONDITIONS AND BID THE WORK ACCORDINGLY.
6. CONTRACTOR SHALL PATCH & REPAIR ALL EXISTING SURFACES TO REMAIN & MATERIALS EXPOSED TO VIEW WHERE OTHER ITEMS OR MATERIALS HAVE BEEN REMOVED.
7. CONTRACTOR SHALL REMOVE ALL WALL MOUNTED FIXTURES OR ITEMS UNLESS OTHERWISE NOTED. ALL WALLS SHALL BE REPAIRED & VOIDS FILLED AFTER FIXTURE REMOVAL. ALL FINISHES SHALL MATCH ADJACENT SURFACES. REMOVE ALL FOREIGN MATTER, SHELVING, LOOSE DEBRIS INCLUDING TAPE, ADHESIVE, NAILS, SCREWS, ETC. FROM WALLS. SCRAPE, WIRE BRUSH, AND SAND SMOOTH. WASH ALL PAINTED SURFACES TO REMOVE ANY "FILM OR RESIDUE". PREPARE SURFACES TO PROVIDE A MAXIMUM DEGREE OF NEW PAINT ADHESION. PATCH & REPAIR ALL VOIDS IN PREPARATION FOR NEW FINISHES.
8. REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL & COMPLETE SCOPE OF DEMOLITION THAT MAY OR MAY NOT BE NOTED ON THE ARCHITECTURAL DEMOLITION PLANS & NOTES.
9. ALL FIXTURES, WALLS, & PORTIONS OF WALLS SHOWN AS DASHED LINES OR LABELED SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED. PROVIDE STRUCTURAL SHORING & BRACING AS REQUIRED FOR WALLS, FLOORS, OR STRUCTURAL ELEMENTS REMOVED OR REPLACED. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING & BRACING AND IS RESPONSIBLE FOR ANY FAILURE DUE TO LACK OF PROPER BRACING.
10. DURING THE BIDDING PROCESS, CONTRACTORS SHALL TAKE NOTE OF EXISTING MECHANICAL, & ELECTRICAL ITEMS IN AREAS TO BE RENOVATED. ITEMS INCLUDE BUT ARE NOT LIMITED TO WIRES, CONDUITS, THERMOSTATS, FIRE ALARM DEVICES, PANEL CANS, ETC. THESE HAVE BEEN IDENTIFIED IN THE DEMOLITION DRAWINGS FOR ARCHITECTURAL, MECHANICAL, &/OR ELECTRICAL. FOR ITEMS NOT SHOWN, CONTRACTOR SHALL WORK WITH THE ARCHITECT AND THE OWNER TO DETERMINE IF THE ITEM IS STILL IN USE. ITEMS WHICH ARE NOTED TO BE REMOVED & STORED FOR LATER REINSTALLATION SHALL BE TAGGED & LISTED ON AN ITEMIZED LIST GIVEN TO THE OWNER & ARCHITECT.
11. WHETHER SHOWN OR NOT, COORDINATE THE DEMOLITION OF NEW OPENINGS IN EXISTING MASONRY WALLS WITH THE FLOOR PLAN.
12. THE CONTRACTOR SHALL COORDINATE AFTER HOURS WORK AND OBTAIN WRITTEN OWNER PERMISSION FOR NIGHT & WEEKEND WORK AND ANY WORK DISRUPTING UTILITIES.
13. EXISTING STRUCTURAL FRAME, ROOF FRAME, ROOF DECK, ROOF, EXTERIOR WALLS, AND CONCRETE SLABS TO REMAIN UNLESS OTHERWISE NOTED.
14. THE CONTRACTOR SHALL ENSURE WATER-TIGHT INTEGRITY OF THE TEMPORARY ENCLOSURE SYSTEMS & MAINTAIN THEM THROUGH THE ENTIRETY OF CONSTRUCTION TO PREVENT THE INTRUSION OF WATER & THE ELEMENTS INTO THE BUILDING.
15. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO PROTECT THE EXISTING ROOF DURING THE DEMOLITION PHASE, CONSTRUCTION, AND THROUGHOUT THE ENTIRE PROJECT. DAMAGE TO THE ROOF SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. EXCESS DIRT AND DEBRIS SHALL BE REMOVED BY CONTRACTOR AT THE END OF CONSTRUCTION ACTIVITIES.
16. CONTRACTOR SHALL PATCH AND FILL IN ANY VOIDS LEFT FROM THE DEMOLITION OF ANY ARCHITECTURAL, MECHANICAL &/OR ELECTRICAL ITEMS. REFER TO MECHANICAL, & ELECTRICAL DRAWINGS FOR COMPLETE SCOPE OF DEMOLITION.
17. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING & PATCHING OF WALLS AFFECTED BY NEW WIRING.
18. REMOVAL OF HAZARDOUS MATERIAL & DEBRIS SHALL BE AS FOLLOWS:
 1) BULBS - FLUORESCENT, MERCURY VAPOR, SODIUM, ETC. BULBS WILL BE HANDLED AS UNIVERSAL WASTE UPON REMOVAL FROM LIGHTING DEVICES, THEY IMMEDIATELY MUST BE PUT INTO APPROPRIATE CONTAINERS AND LABELED AS USED LAMPS. A UNIVERSAL WASTE LABEL WILL BE ATTACHED AND ACCUMULATION DATE FILLED IN ON THE LABEL. BOX MUST BE CLOSED AND TAPED SHUT AT ALL TIMES UNLESS BULBS ARE BEING ADDED. BULBS, UNLESS BROKEN, SHALL BE RECYCLED. ANY BROKEN OR DAMAGED BULBS WILL BE CONTAINERIZED IN PLASTIC OR METAL CONTAINERS FOR DISPOSAL AS HAZARDOUS WASTE
 2) BALLAST - ALL BALLAST WILL BE CONTAINERIZED AND RECYCLED.
19. GC WILL DEMO AND HAND OVER TO THE OWNER THE FOLLOWING: 1. CARPET TILE ; 2. DOORS ; 3. HARDWARE ; LIGHT FIXTURES

DEMOLITION PLAN KEYNOTES

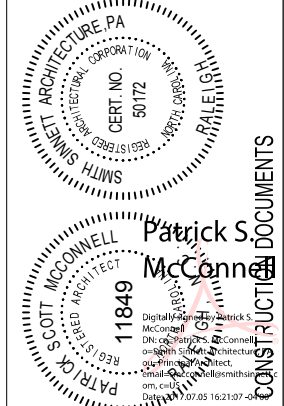
- | | |
|---|---------------------------------------------------------------------------------------------------------|
| 1 | REMOVE AND STOCKPILE CARPET FLOORING FOR OWNER |
| 2 | DASHED LINES INDICATED EXISTING WALL TO BE DEMOLISHED IN ITS ENTIRETY - EXISTING WALL ASSEMBLY AS NOTED |
| 3 | REMOVE DOOR, DOOR FRAME AND HARDWARE IN ITS ENTIRETY. STOCKPILE AND HAND OVER TO THE OWNER |



1 AREA 600 & 700 - DEMO FLOOR PLAN
 AD-01 1/16" = 1'-0"

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NORTHERN MIDDLE SCHOOL ALTERATIONS
PERSON COUNTY SCHOOLS
 1935 CARVER DR., ROXBORO, NC 27573

DRAWN BY: DW
 CHECKED BY: PSM
 DEMO PLAN

2017020 5 JULY 2017

AD-01

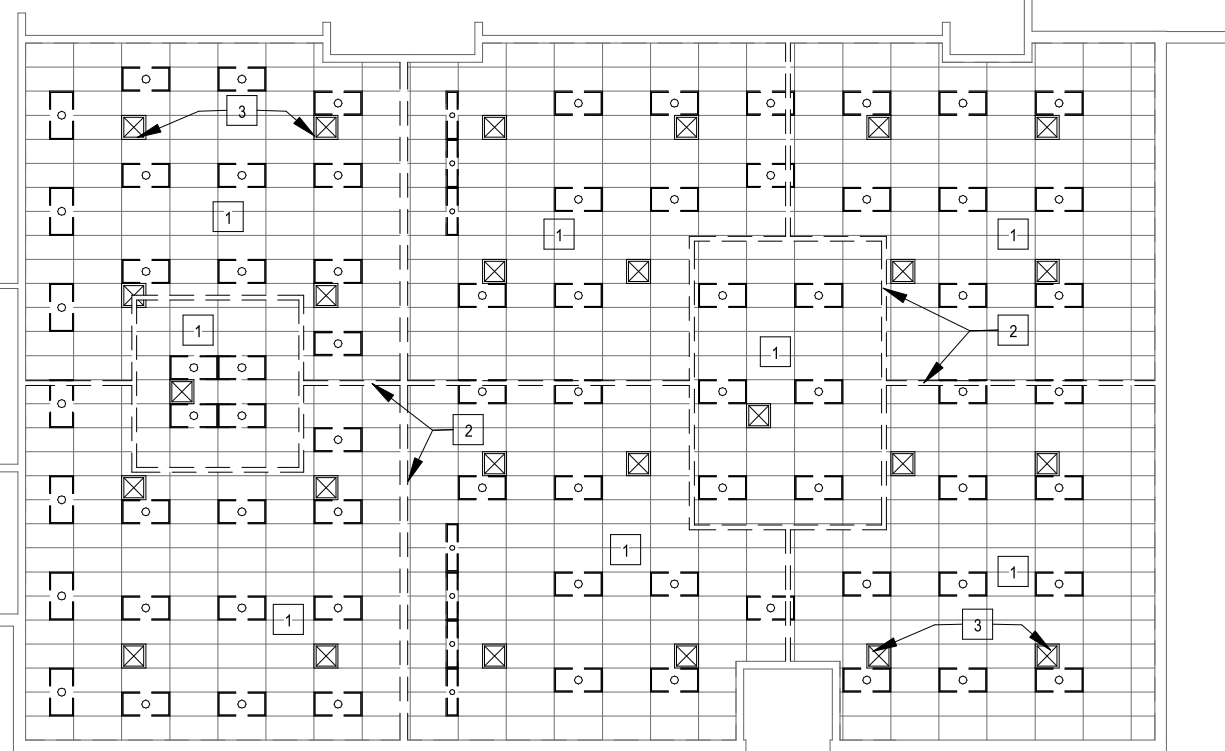
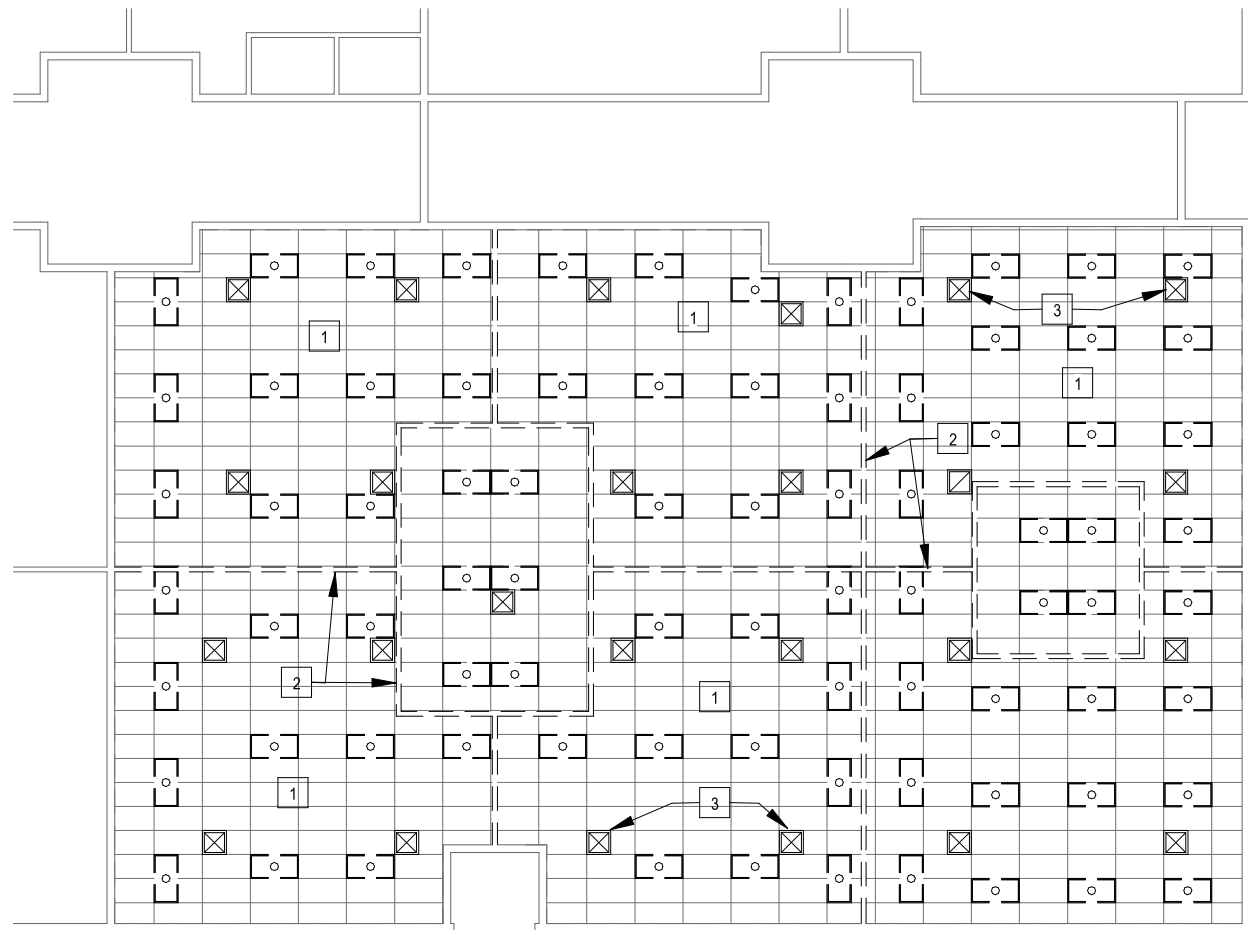
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GENERAL DEMOLITION NOTES

1. ALL CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY INCONSISTENCIES IN WRITING PRIOR TO STARTING ANY WORK.
2. FIELD VERIFY ALL SHOWN DIMENSION W/ EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION ACTIVITIES. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WEEKLY AND/OR DAILY REMOVAL AND PROPER DISPOSAL OF ALL DEBRIS ACCUMULATED DURING DEMOLITION & CONSTRUCTION.
4. ANY FLOOR, CEILING, WALL, OR OTHER MATERIALS, INCLUDING FINISHES, IN AREAS TO REMAIN ARE THE RESPONSIBIUTY OF THE CONTRACTOR TO PROTECT. ANY MATERIALS DAMAGED DURING CONSTRUCTION OR DEMOLITION, SHALL BE RETURNED TO THEIR ORIGINAL STATE, OR IMPROVED AS INDICATED BY THE OWNER OR ARCHITECT, OR REPLACED WITH A NEW MATERIAL TO MATCH ADJACENT MATERIALS, TYPICAL.
5. THE DRAWING REPRESENTS THE GENERAL CHARACTER OF THE EXISTING CONDITIONS. BIDDERS ARE REQUIRED TO FIELD VERIFY AND QUANTIFY THE EXISTING CONDITIONS AND BID THE WORK ACCORDINGLY.
6. CONTRACTOR SHALL PATCH & REPAIR ALL EXISITING SURFACES TO REMAIN & MATERIALS EXPOSED TO VIEW WHERE OTHER ITEMS OR MATERIALS HAVE BEEN REMOVED.
7. CONTRACTOR SHALL REMOVE ALL WALL MOUNTED FIXTURES OR ITEMS UNLESS OTHERWISE NOTED. ALL WALLS SHALL BE REPAIRED & VOIDS FILLED AFTER FIXTURE REMOVAL. ALL FINISHES SHALL MATCH ADJACENT SURFACES. REMOVE ALL FOREIGN MATTER, SHELVING, LOOSE DEBRIS INCLUDING TAPE, ADHESIVE, NAILS, SCREWS, ETC. FROM WALLS. SCRAPE, WIRE BRUSH, AND SAND SMOOTH. WASH ALL PAINTED SURFACES TO REMOVE ANY "FILM OR RESIDUE". PREPARE SURFACES TO PROVIDE A MAXIMUM DEGREE OF NEW PAINT ADHESION. PATCH & REPAIR ALL VOIDS IN PREPARATION FOR NEW FINISHES.
8. REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL & COMPLETE SCOPE OF DEMOLITION THAT MAY OR MAY NOT BE NOTED ON THE ARCHITECTURAL DEMOLITION PIANS & NOTES.
9. ALL FIXTURES, WALLS, & PORTIONS OF WALLS SHOWN AS DASHED LINES OR LABELED SHALL BE DEMOLISHED UNLESS OTHERWISE NOTED. PROVIDE STRUCTURAL SHORING & BRACING AS REQUIRED FOR WALLS, FLOORS, OR STRUCTURAL ELEMENTS REMOVED OR REPLACED. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING & BRACING AND IS RESPONSIBLE FOR ANY FAILURE DUE TO LACK OF PROPER BRACING.
10. DURING THE BIDDING PROCESS. CONTRACTORS SHALL TAKE NOTE OF EXISTING , MECHANICAL, & ELETRICAL ITEMS IN AREAS TO BE RENOVATED. ITEMS INCLUDE BUT ARE NOT LIMITED TO WIRES, CONDUITS, THERMOSTATS, FIRE ALARM DEVICES, PANEL CANS, ETC. THESE HAVE BEEN IDENTIFIED IN THE DEMOLITION DRAWINGS FOR ARCHITECTURAL, MECHANICAL, &/OR ELECTRICAL. FOR ITEMS NOT SHOWN, CONTRACTOR SHALL WORK WITH THE ARCHITECT AND THE OWNER TO DETERMINE IF THE ITEM IS STILL IN USE. ITEMS WHICH ARE NOTED TO BE REMOVED & STORED FOR LATER REINSTALLATION SHALL BE TAGGED & LISTED ON AN ITEMIZED LIST GIVEN TO THE OWNER & ARCHITECT.
11. WHETHER SHOWN OR NOT, COORDINATE THE DEMOLITION OF NEW OPENINGS IN EXISTING MASONRY WALLS WITH THE FLOOR PLAN.
12. THE CONTRACTOR SHALL COORDINATE AFTER HOURS WORK AND OBTAIN WRITTEN OWNER PERMISSION FOR NIGHT & WEEKEND WORK AND ANY WORK DISRUPTING UTILITIES.
13. EXISTING STRUCTURAL FRAME, ROOF FRAME, ROOF DECK, ROOF, EXTERIOR WALLS, AND CONCRETE SLABS TO REMAIN UNLESS OTHERWISE NOTED.
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19. GC WILL DEMO AND HAND OVER TO THE OWNER THE FOLLOWING: 1. CARPET TILE ; 2. DOORS ; 3. HARDWARE ; LIGHT FIXTURES

CEILING DEMOLITION PLAN KEYNOTES

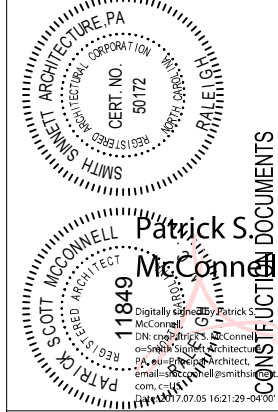
1	REMOVE ALL EXISTING 2x4 CEILING TILE, GRID AND LIGHT FIXTURES. STOCKPILE AND HAND OVER EXISTING LIGHT FIXTURES TO THE OWNER PLENUM CEILING ABOVE LAY-IN CEILING IS TO REMAIN. PATCH AND REPAIR ANY DAMAGE TO HARD PLENUM CEILING AS A RESULT OF DEMOLITION ACTIVITIES
2	DEMOLISHED WALL
3	DEMOLISH ALL EXISTING MECH DIFFUSERS/GRILLS WITHIN DEMOLISHED CEILING AREA. SEE MECH. PLANS FOR EXTENTS OF MECHANICAL DEMOLITION



1 AREA 600 & 700 - DEMO REFLECTED CEILING PLAN
 AD-02 1/16" = 1'-0"

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PERSON COUNTY SCHOOLS
 1935 CARVER DR., ROXBORO, NC 27573

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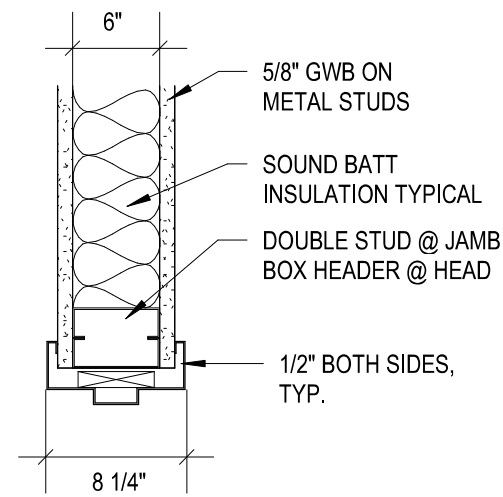
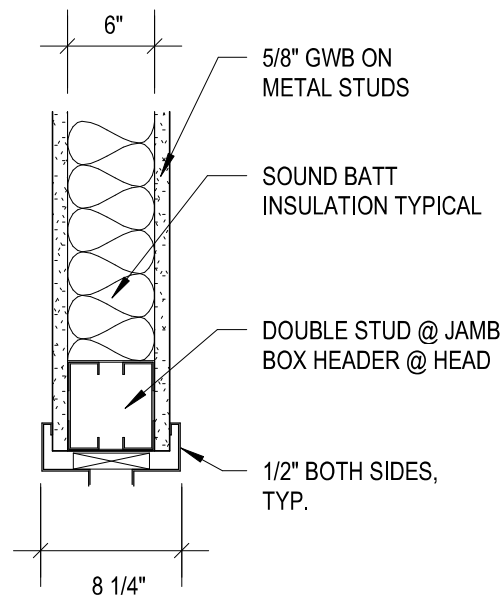
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DEMO REFLECTED CEILING PLAN

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AD-02

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GENERAL FLOOR PLAN NOTES

1. WALL DIMENSIONS ARE TO FACE OF METAL STUD, FACE OF CONCRETE MASONRY UNIT (CMU), OR CENTERLINE OF COLUMN.
2. ALL RATED WALL CONSTRUCTION TO COMPLY W/ UL REQUIREMENTS.
3. ALL METAL STUD WALLS TERMINATING AT BOTTOM OF DECK ARE TO PROVIDE A DEFLECTION TRACK SECURED TO THE UNDERSIDE OF THE DECKING, NEST TOP TRACK BUT DO NOT ATTACH TO DEFLECTION TRACK. FILL FLUTE IN METAL DECK WHERE REQUIRED.
4. ALL WALLS EXTEND 8" ABOVE LAYIN CEILING AND ARE BRACED TO DECK AT HEAD ON ALTERNATE STUDS OR 32" OC FOR CMU WALLS, UNLESS OTHERWISE NOTED.
5. CONTROL JOINTS SHALL BE LOCATED AT THE EACH CORNER AND BOTH SIDES OF DOORS FOR NEW INTERIOR GYPSUM WALLS THERE SHALL BE NO PENETRATIONS IN THROUGH WALL FLASHING.
6. DOOR JAMB FROM INTERSECTING WALLS:
7. CMU - 8" UNLESS OTHERWISE NOTED
8. STUD - 4" UNLESS OTHERWISE NOTED
9. PATCH AND REPAIR ANY DAMAGED MASONRY WITHIN THE AREAS DEFINED ON SHEET A0-01
10. PATCH AND REPAIR FLOOR SLAB DAMAGE - ESPECIALLY AS A RESULT OF DEMOUNTABLE WALL REMOVAL

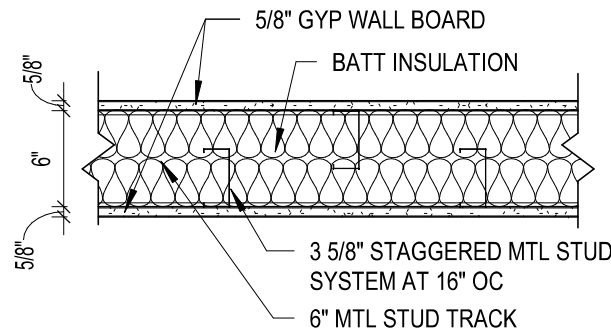
FINISH NOTES

1. ALL GWB CEILINGS AND BULKHEADS TO BE PT-1, U.O.N.
2. FINISH MATERIALS SUBMITTED AS EQUALS TO THE BASIS OF DESIGN WILL BE APPROVED OR REJECTED BASED ON COLOR INTEGRITY AND TACTILE CHARACTERISTICS IN ADDITION TO TECHNICAL SPECIFICATIONS.
3. FINISHES ARE CONTINGENT ON FINAL OWNER AND ARCHITECT APPROVAL.
4. RUBBER WALL TILE TYPICAL THROUGHOUT FOR NEW PARTITIONS AND EXISTING WALLS AT NEW CLASSROOMS

FINISH LEGEND:

INDICATES ACCENT PAINT OR WALL TILE

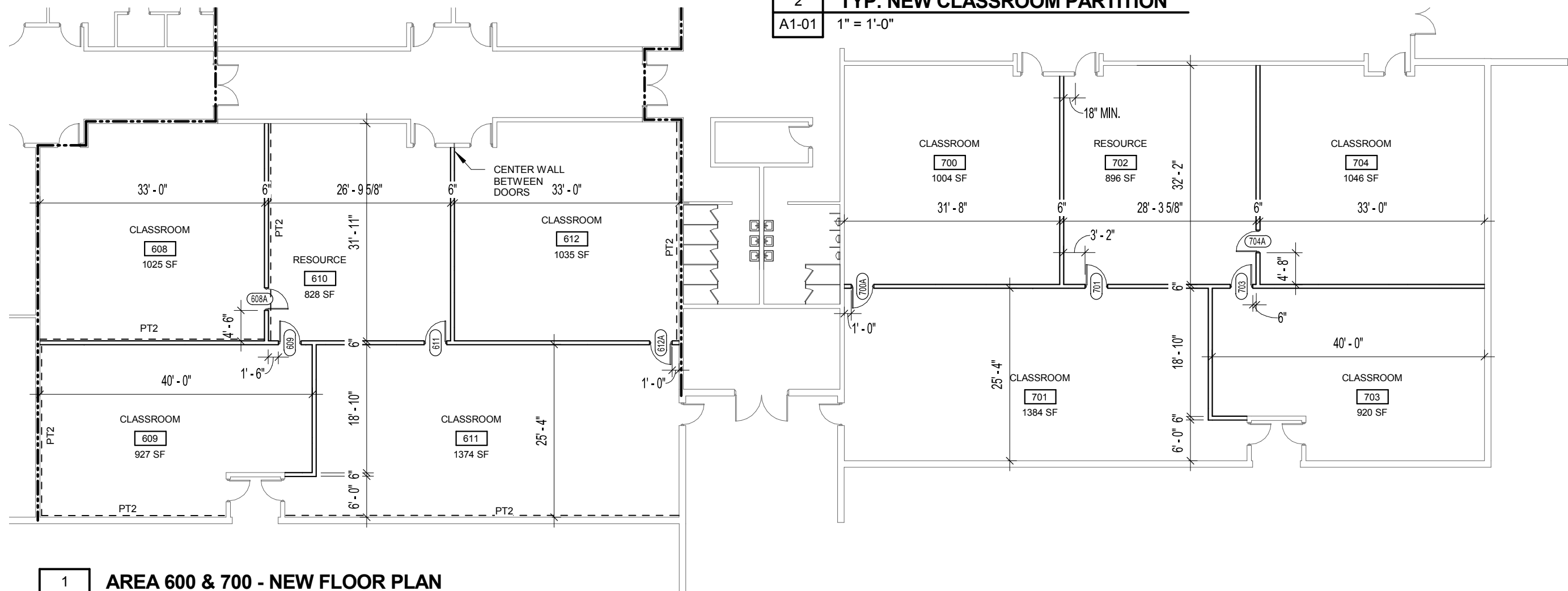
- PT1 INTERIOR FIELD PAINT 1
- PT1A INTERIOR FIELD EPOXY PAINT 1
- PT2 ACCENT PAINT 1
- PT3 ACCENT PAINT 2



4 HM HEAD AT STUD WALL
A1-01 1 1/2" = 1'-0"

3 HM JAMB AT STUD WALL
A1-01 1 1/2" = 1'-0"

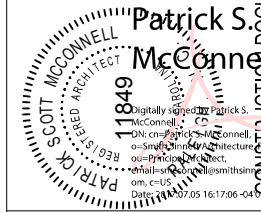
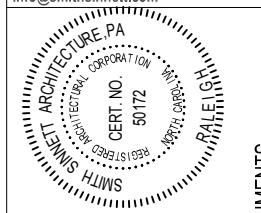
2 TYP. NEW CLASSROOM PARTITION
A1-01 1" = 1'-0"



1 AREA 600 & 700 - NEW FLOOR PLAN
A1-01 1/16" = 1'-0"

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PERSON COUNTY SCHOOLS
1935 CARVER DR., ROXBORO, NC 27573

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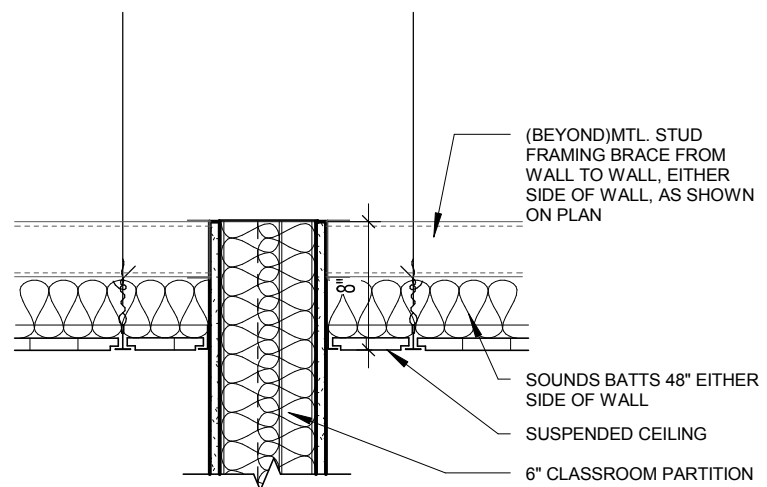
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NEW FLOOR PLAN

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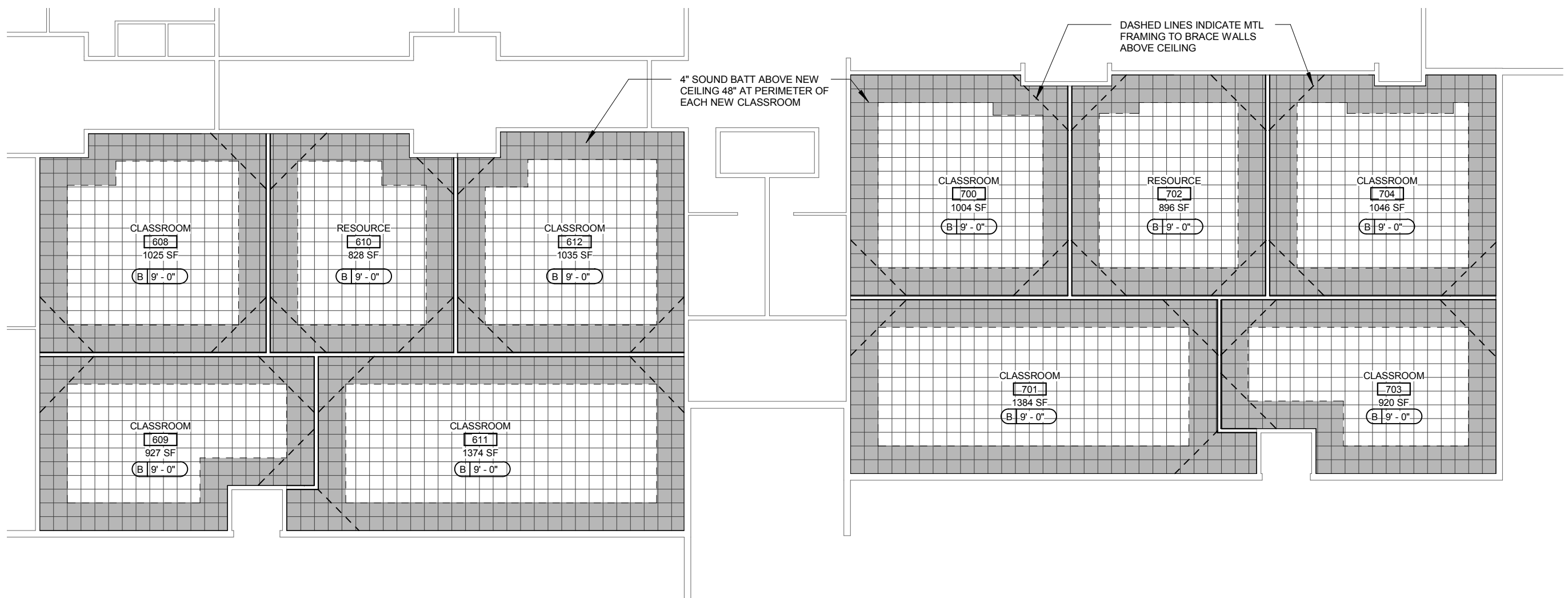
A1-01

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2 **NEW PARTITION @ CEILING**
A1-02 1" = 1'-0"

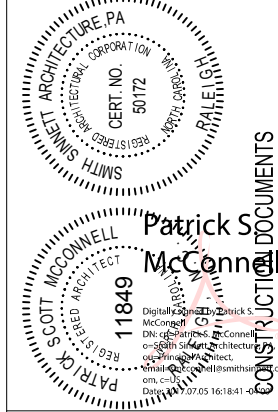
REFLECTED CEILING LEGEND AND NOTES		
	CEILING TYPE	CEILING HEIGHT
	CEILING TYPE	CEILING HEIGHT
SYMBOL	TYPE	DESCRIPTION
	A	EXISTING 2x4 LAY-IN CEILING TILE AND GRID TO BE REMOVED ENTIRELY
	B	NEW 2x2 LAY-IN CEILING TILE AND GRID
	D	GYPSUM WALLBOARD CEILING/HEADER
1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPLETE SCOPE OF CEILING PENETRATIONS AND FIXTURES. 2. SOUND BATTS SHALL NOT BE INSTALLED OVER LIGHT FIXTURES		



1 **AREA 600 & 700 - NEW REFLECTED CEILING PLAN**
A1-02 1/16" = 1'-0"

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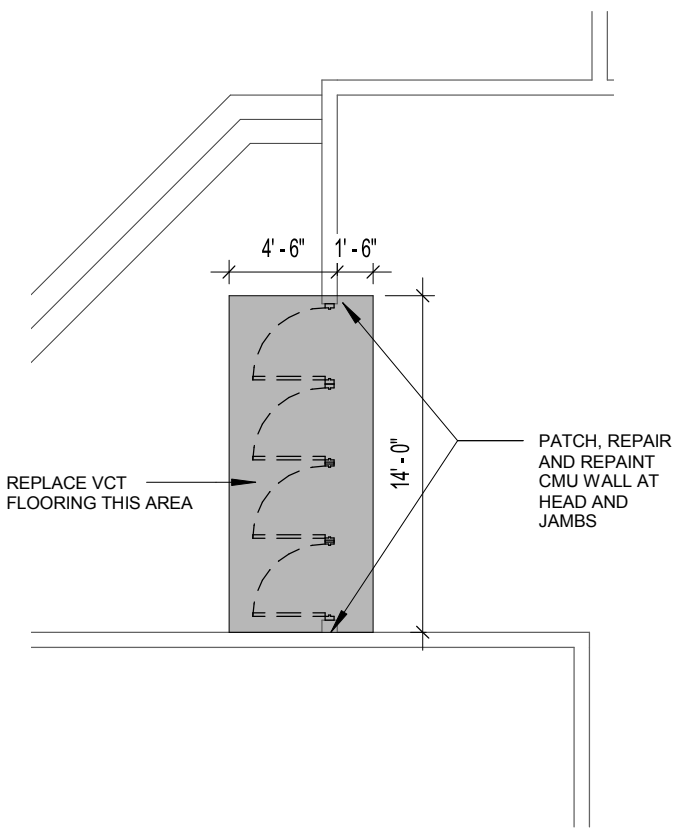
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NEW REFLECTED CEILING PLAN

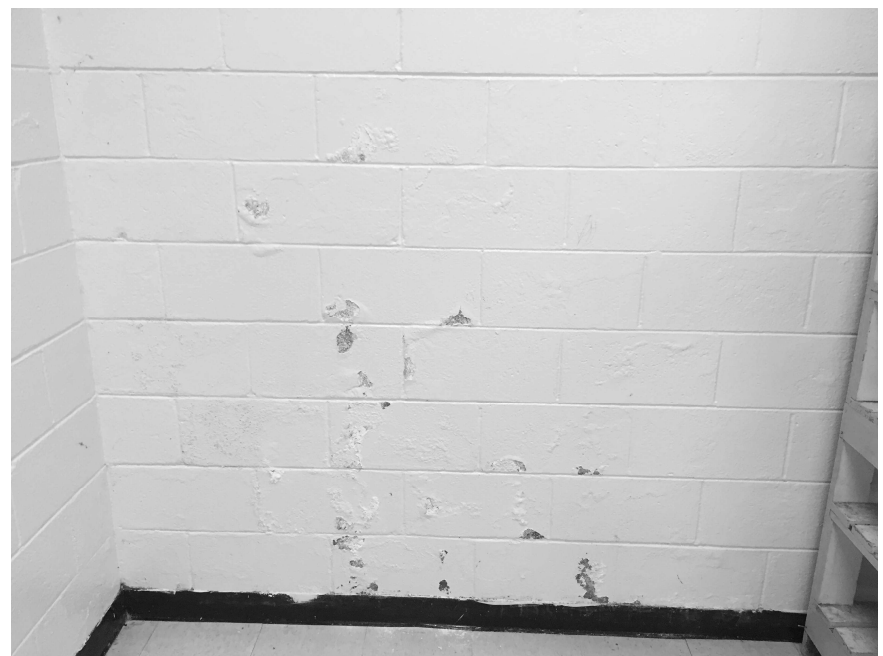
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A1-02

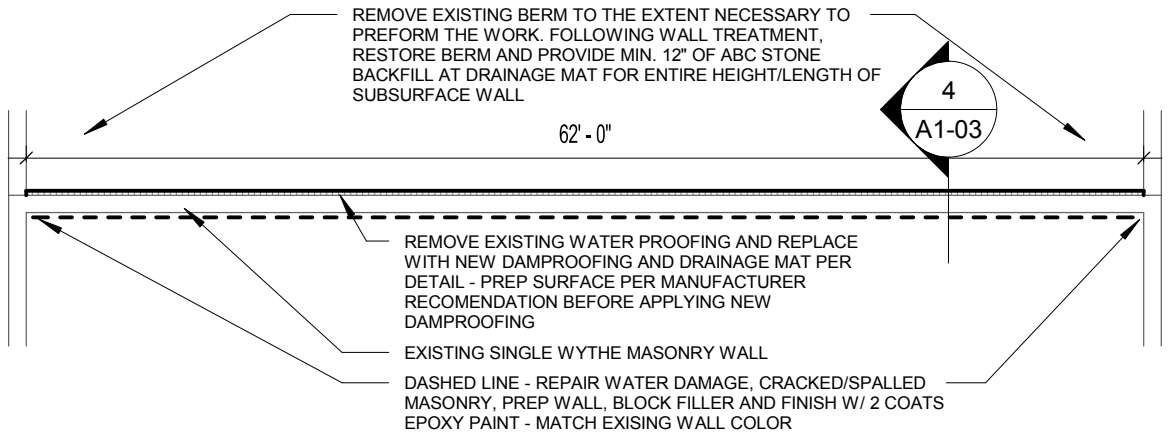
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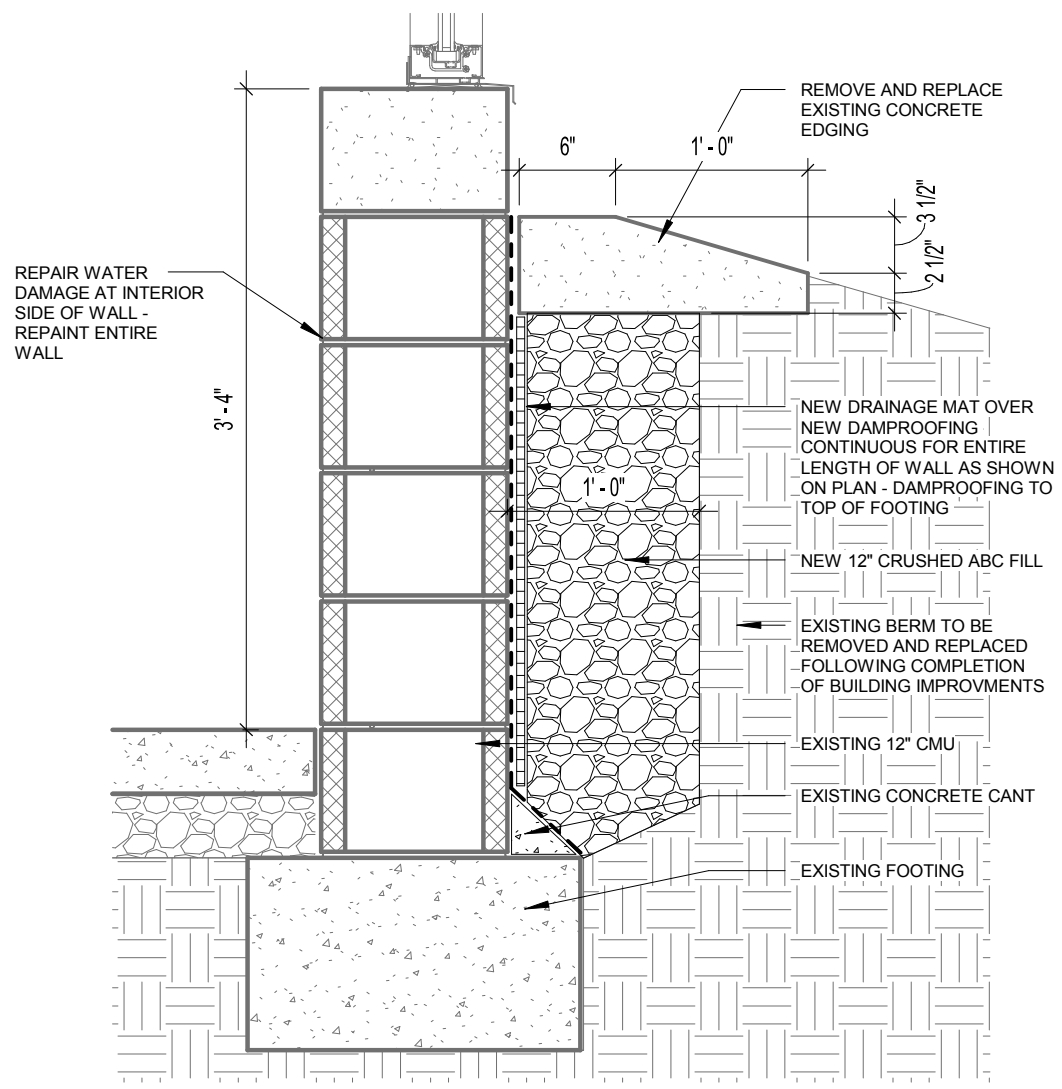
1 **AREA 3 PLAN** TO BE INCLUDED IN ALTERNATE 2
A1-03 1/8" = 1'-0"



2 **EXAMPLE OF STAGE WALL DAMAGE**
A1-03 1" = 1'-0"



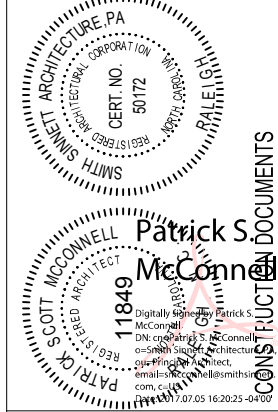
3 **AREA 2 FLOOR PLAN** TO BE INCLUDED IN ALTERNATE 3
A1-03 3/32" = 1'-0"



4 **STAGE WALL DETAIL (ALTERNATE 3)**
A1-03 1" = 1'-0"

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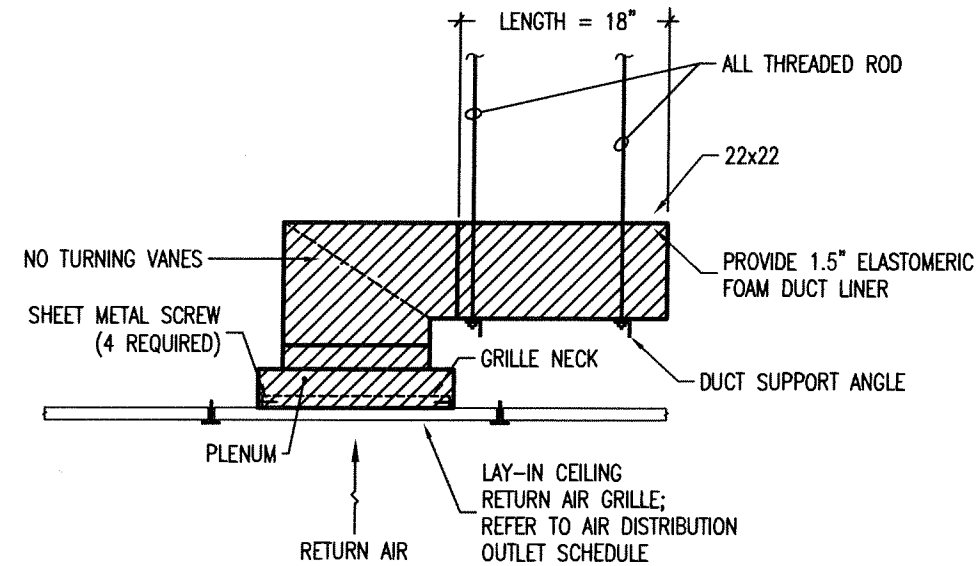
AREAS 2 AND 3

2017020 5 JULY 2017

A1-03

GENERAL NOTES

- COORDINATE WORK WITH THAT OF THE OTHER DISCIPLINES PRIOR TO THE INSTALLATION OF ANY PIPING, DUCTWORK, OR EQUIPMENT.
- PERFORM A COMPLETE REVIEW OF THE DIVISION 23 CONTRACT DOCUMENTS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS WITH THE ENGINEER.
- DIVISION 23 SHALL ENSURE THAT ITEMS TO BE FURNISHED OR PROVIDED WILL FIT IN THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND PROVIDE SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS. PROVIDE THE ENGINEER WITH SCALED COORDINATION DRAWINGS OF ALL MECHANICAL SPACES AND ABOVE CEILING INSTALLATIONS.
- ALL INSTALLATIONS SHALL PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE.
- PROVIDE ALL SUPPORT DEVICES NECESSARY FOR DIVISION 23 WORK. COORDINATE ALL LOCATIONS WITH OTHER DISCIPLINES PRIOR TO INSTALLATION.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR PLAN DIMENSIONS AND ELEVATIONS. DO NOT SCALE THESE DRAWINGS.
- PROVIDE ALL PENETRATIONS (PERTAINING TO THE DIVISION 23 WORK) THROUGH WALLS.
- PROVIDE ALL CUTTING AND PATCHING OF WALLS FOR THE DIVISION 23 WORK, UNLESS OTHERWISE INDICATED.
- DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR UNLESS OTHERWISE INDICATED.
- PROVIDE SHEET METAL COLLAR AT ALL LOCATIONS WHERE DUCTS PENETRATE WALLS. COLLARS SHALL BE OF A GAGE EQUIVALENT TO THE DUCTWORK.
- PROVIDE BALANCING DAMPERS IN ALL LOW PRESSURE DUCTS FOR SYSTEM BALANCING.
- ALL ELBOWS IN DUCTWORK SHALL BE 1-1/2W RADIUS ELBOWS, UNLESS INDICATED OTHERWISE. WHERE SQUARE ELBOWS ARE INDICATED, INSTALL DOUBLE WIDTH TURNING VANES.
- INSTALL THERMOSTATS, CO2 SENSORS, AND OTHER CONTROLS 48" ABOVE FINISHED FLOOR OR AS INDICATED ON THE DRAWINGS. COORDINATE WITH OTHER DISCIPLINES TO ALIGN EXACTLY WITH ADJACENT DEVICES SUCH AS LIGHT SWITCHES AND CONTROLS.
- ALL DUCT LAYOUT AND LOCATIONS INDICATED ARE DIAGRAMMATIC. VISIT THE SITE, BECOME FAMILIAR WITH THE EXISTING CONDITIONS, AND COORDINATE THE DUCT LAYOUT WITH ALL DISCIPLINES PRIOR TO INSTALLATION.
- SUPPORT ALL DUCTWORK AND APPURTENANCES FROM THE BUILDING SUPPORT STRUCTURE AND NOT THE ROOF.
- INSULATE ALL SUPPLY DIFFUSERS AND DUCTED RETURN DIFFUSERS WITH 2.5" - 1 LB R.6 DUCT WRAP. CUT DIFFUSERS SO THERE IS A FOLDED 2" LAP ON ALL FOUR SIDES. TAPE WITH FSK TAPE WHERE INSULATED FLEX MEETS DUCT INSULATION, AND SO THERE ARE NO RAW EDGES OF FIBERGLASS.
- ALL EQUIPMENT REMOVED FROM THE BUILDING DURING DEMOLITION SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER FOR DISPOSAL. CARE SHOULD BE TAKEN IN REMOVAL OF ITEMS TO MINIMIZE DAMAGE. ANY ITEM NOT WANTED BY THE OWNER SHALL BECOME THE PROPERTY OF DIVISION 23 AND SHALL BE REMOVED FROM THE PREMISES IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.



TYPICAL DETAIL FOR RETURN AIR GRILLE SOUND TRAP

INSTALLATION NOTES

- ORIENT DUCT OPENINGS AWAY FROM ADJACENT ROOMS AND OPEN OFFICE AREAS, TYPICAL.
- TYPICAL OF ALL RETURN GRILLES OPEN TO PLENUM IN CLASSROOMS.

DETAIL

NOT TO SCALE

01

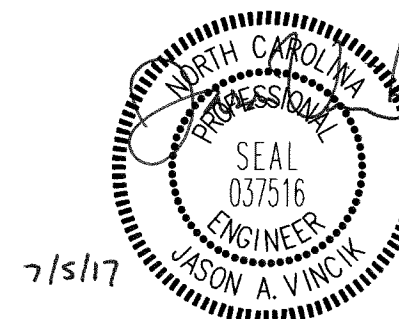
TESTING, ADJUSTING, AND BALANCING:

PRE-CONSTRUCTION

PRIOR TO STARTING CONSTRUCTION, PROVIDE HOOD AIR FLOW MEASUREMENTS FOR ALL EXISTING DIFFUSERS AND GRILLES IN AREA OF WORK. PROVIDE A PRE-CONSTRUCTION TAB REPORT TO THE ENGINEER WITH ALL DATA RECORDED.

POST-CONSTRUCTION

FOLLOW TAB PROCEDURE OUTLINED IN SPECIFICATION SECTION 23 05 95.



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NORTHERN MIDDLE SCHOOL ALTERATIONS
PERSON COUNTY SCHOOLS

1935 CARVER DR., ROXBORO, NC 27573

DRAWN BY: JAV

CHECKED BY: JAV

MECHANICAL
GENERAL NOTES
SOUND TRAP DETAIL

2017020 5 JULY 2017

M0-01

AIR DISTRIBUTION OUTLET SCHEDULE

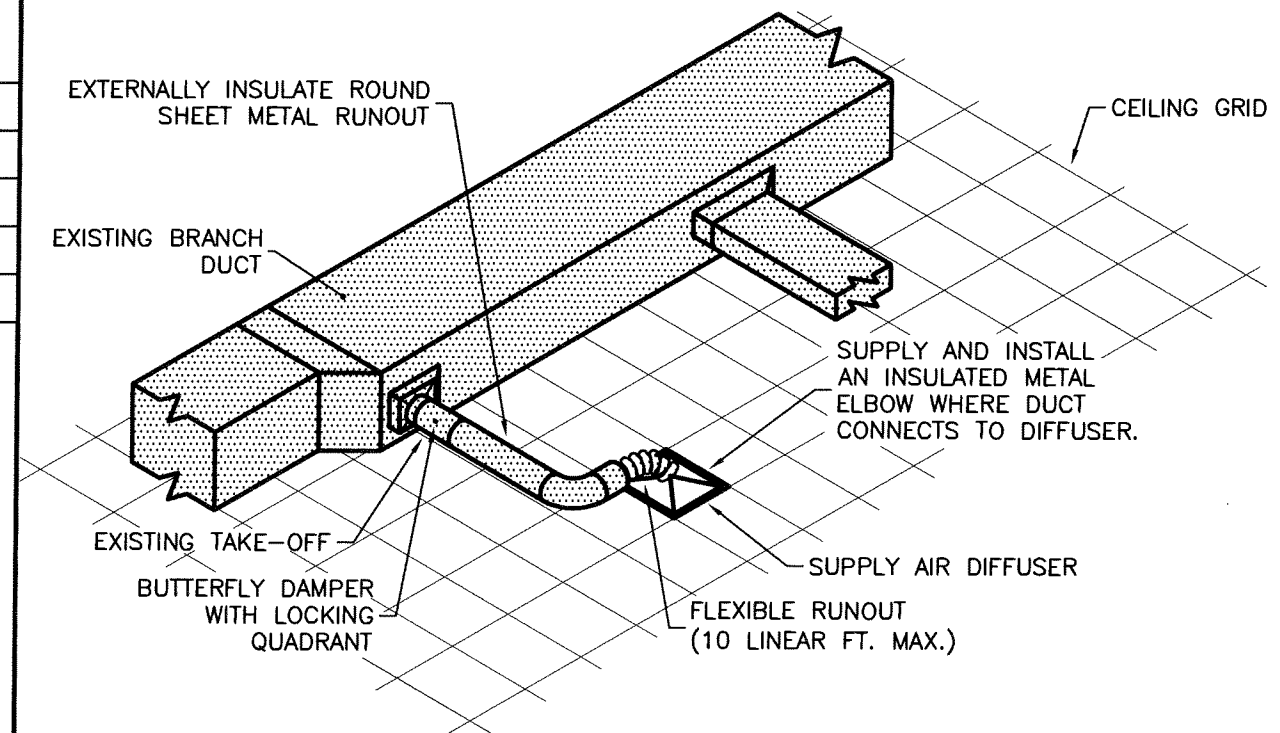
MARK	PURPOSE	CFM	SIZE	DUCT	MAKE	MODEL	REMARKS
A	SUPPLY	300-380	24 x 24	10ø	PRICE	ASPD	①②④
Z	RETURN	0-1200	24 x 24	22 x 22	PRICE	APDR	①②③
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	

GENERAL NOTES:

- A. PROVIDE SOUND TRAP FOR EACH RETURN GRILLE. REFER TO DETAIL.
- B. AIR DEVICE COLORS SHALL BE CHOSEN BY ARCHITECT.
- C. EQUIVALENTS LISTED IN THE SPECIFICATIONS.

REMARKS:

- ① SUPPLY WITH OFF-WHITE ENAMEL FINISH.
- ② SUPPLY WITH TRIM TO MATCH CEILING TYPE.
- ③ ALL CEILING MOUNTED RETURN GRILLES SHALL BE FULL-FACED. NO LAY-IN PANELS ALLOWED. PROVIDE PLENUM AND SOUND TRAP ON BACK OF GRILLE PER DETAIL.
- ④ PROVIDE ROUND CONNECTION OR SUPPLY WITH RECTANGULAR TO ROUND TRANSITION.

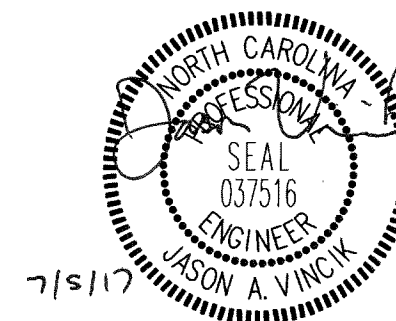


NOTE:
 PROVIDE TAPERED TAKE-OFF WITH ADJUSTABLE VOLUME DAMPER, AIR DISTRIBUTING GRID, OR RADIUS TAKE-OFF WITH STRAIGHTENING VANES AT TAKE-OFF.

SUPPLY AIR TAKE-OFF

DETAIL
 NOT TO SCALE

01



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**NORTHERN MIDDLE SCHOOL ALTERATIONS
 PERSON COUNTY SCHOOLS**
 1935 CARVER DR., ROXBORO, NC 27573

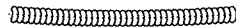
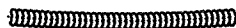
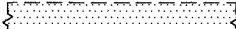

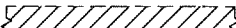







DRAWN BY: JAV
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AIR DISTRIBUTION SCHEDULE RUNOUT DETAIL

2017020 5 JULY 2017

M0-02

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	EXISTING FLEXIBLE DUCT
	FLEXIBLE DUCT
	EXISTING SUPPLY DUCT
	SUPPLY DUCT
	EXISTING RETURN DUCT
	EXISTING SUPPLY GRILLE
	SUPPLY GRILLE
	EXISTING RETURN GRILLE
	RETURN GRILLE
	EXISTING THERMOSTAT
	POINT OF DISCONNECT
	POINT OF CONNECTION

MECHANICAL SUMMARY MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Code

2012 NC ENERGY CODE: PRESCRIPTIVE X PERFORMANCE _____
ASHRAE 90.1-2010: PRESCRIPTIVE _____ PERFORMANCE _____

Additional Prescriptive Compliance N/A

- ____ 506.2.1 More Efficient Mechanical Equipment
- ____ 506.2.2 Reduced Lighting Power Density
- ____ 506.2.3 Energy Recovery Ventilation Systems
- ____ 506.2.4 Higher Efficiency Service Water Heating
- ____ 506.2.5 On-Site Supply of Renewable Energy
- ____ 506.2.6 Automatic Daylighting Control Systems

Thermal Zone 4A

Winter Dry Bulb: 18.3 degrees F
Summer Dry Bulb: 91.3 degrees F

Interior Design Conditions

Winter Dry Bulb: N/A degrees F
Summer Dry Bulb: N/A degrees F
Relative Humidity: N/A %

Building Heating Load: EXISTING MBH NO NEW COOLING OR HEATING EQUIPMENT.
REARRANGING AIR DISTRIBUTION ONLY.

Building Cooling Load: EXISTING TONS

Mechanical Spacing Conditioning System

Unitary

Description of Unit: }
Heating Efficiency: } All equipment is existing.
Cooling Efficiency: }
Size Category of Unit: }

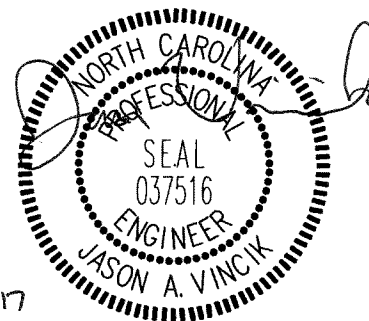
Boiler: Total boiler output. If oversized, state reason. N/A

Chiller: Total chiller capacity. If oversized, state reason. N/A

Refer to Equipment Schedules for Unit Efficiencies.

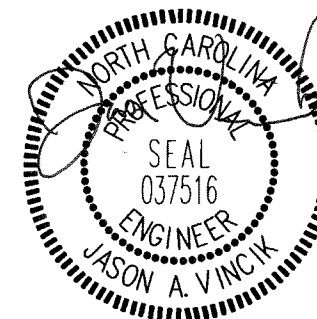
Designer Statement:

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina State Energy Code (or ASHRAE 90.1-2010) as listed above.



7/5/17

NAME: Jason A. Vincik, P.E.



7/5/17

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PERSON COUNTY SCHOOLS

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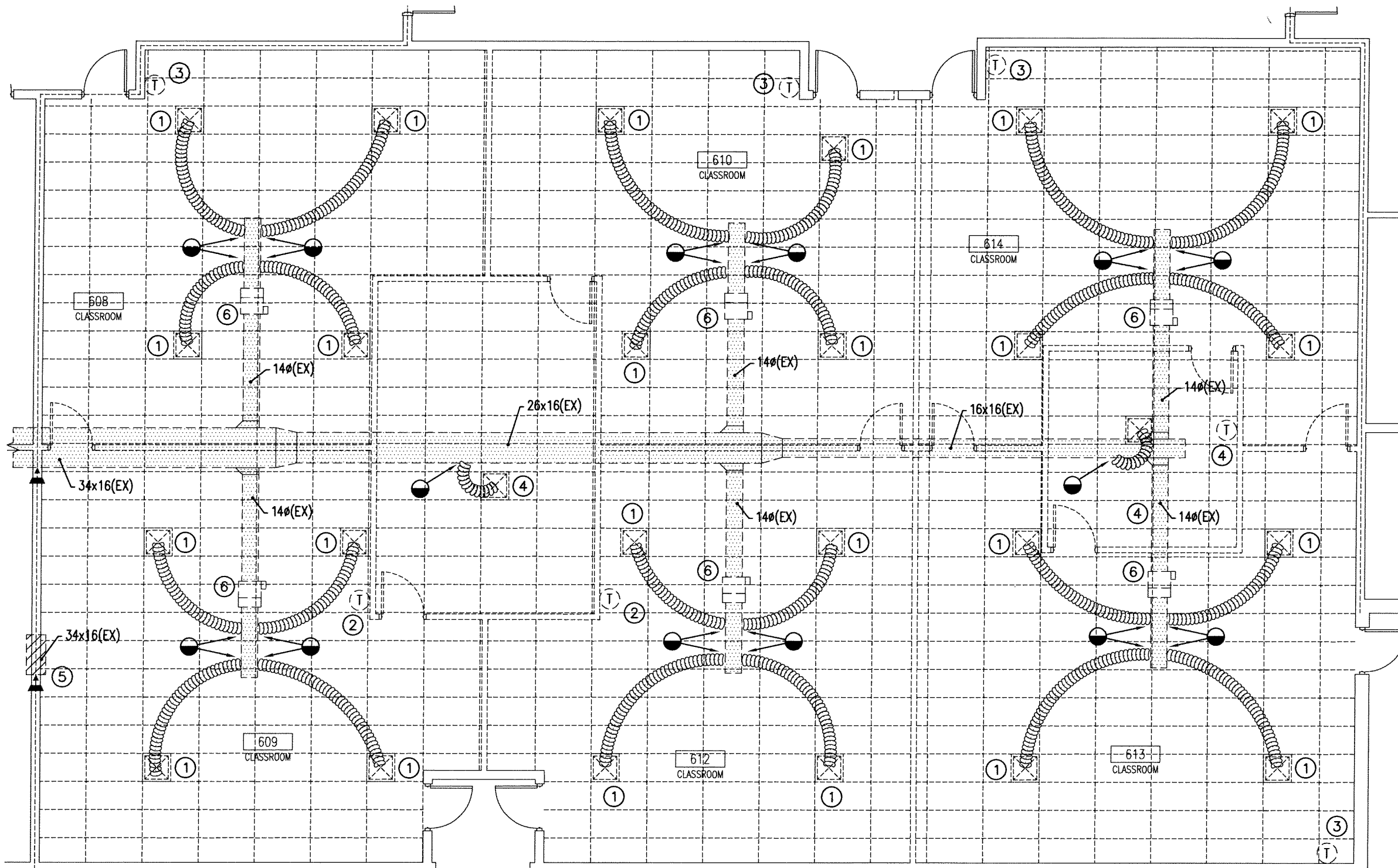
DRAWN BY: JAV

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MECHANICAL
SYMBOL LEGEND
ENERGY SUMMARY

2017020 5 JULY 2017

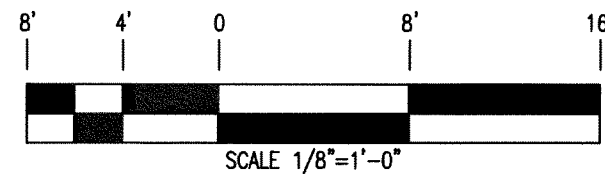
M0-03



NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

- ① DISCONNECT AND REMOVE EXISTING DIFFUSER AND ASSOCIATED FLEXIBLE DUCT BACK TO BRANCH.
- ② RELOCATE EXISTING THERMOSTAT.
- ③ EXISTING THERMOSTAT TO REMAIN.
- ④ REMOVE "THERMA-FUSER" AND ASSOCIATED THERMOSTAT AND BRANCH DUCT. SEAL TAKE-OFF AT MAIN AIR TIGHT.
- ⑤ EXISTING RETURN TRANSFER DUCT TO REMAIN.
- ⑥ EXISTING VARIABLE VOLUME BOX TO REMAIN.

NOTE: PROVIDE A PRE-CONSTRUCTION TAB REPORT WITH HOOD AIRFLOW MEASUREMENT FOR EACH EXISTING DIFFUSER IN AREA OF WORK.



01
MD-01

AREA 600 MECHANICAL DEMOLITION PLAN

1/8" = 1'-0"

FIRE LEGEND

2-HOUR RATED FIRE WALLS

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NORTHERN MIDDLE SCHOOL ALTERATIONS
PERSON COUNTY SCHOOLS

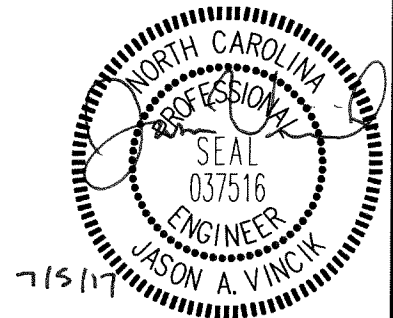
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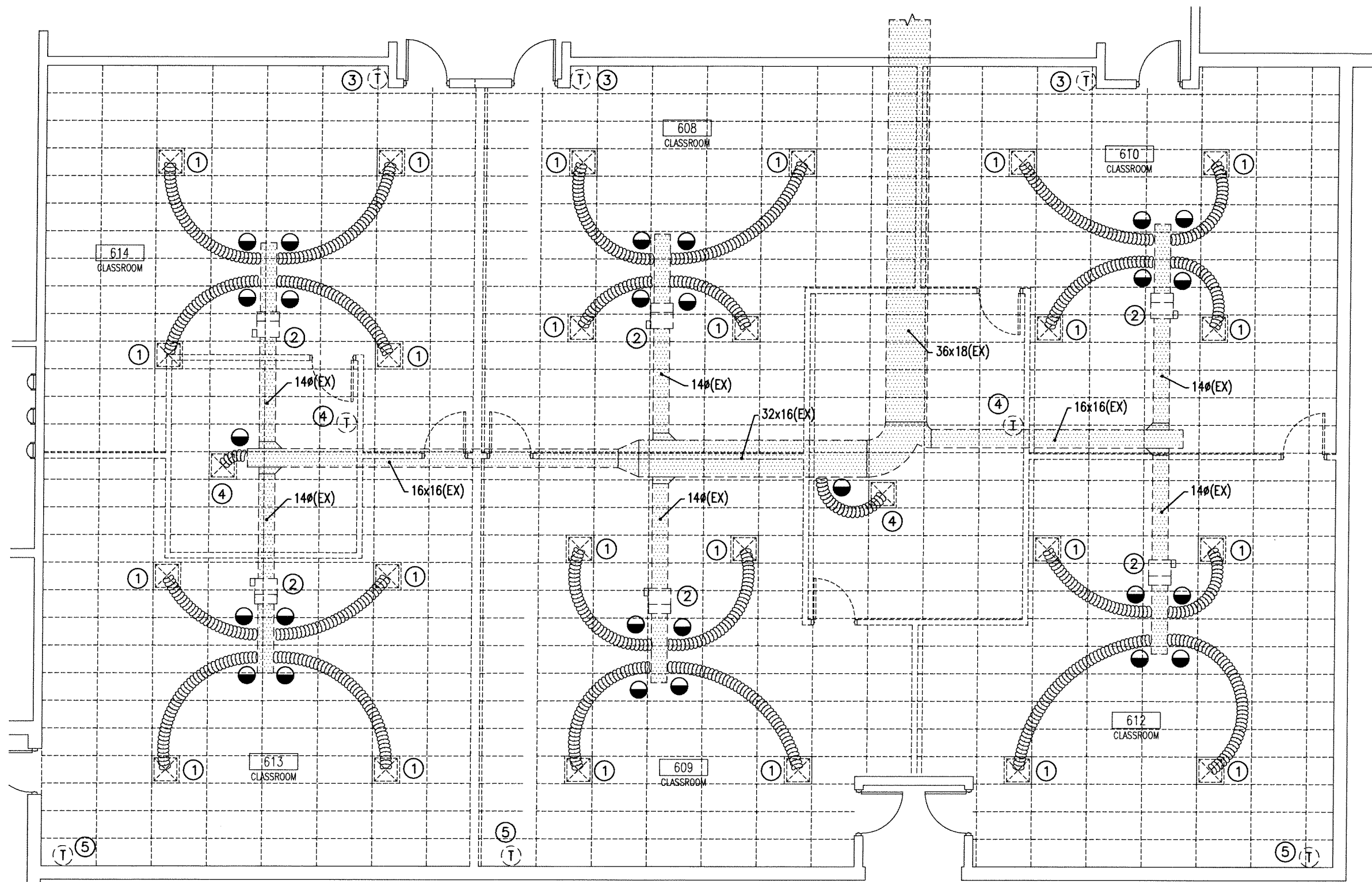
DRAWN BY: JAV
CHECKED BY: JAV

AREA 600
MECHANICAL
DEMOLITION PLAN

2017020 5 JULY 2017

MD-01

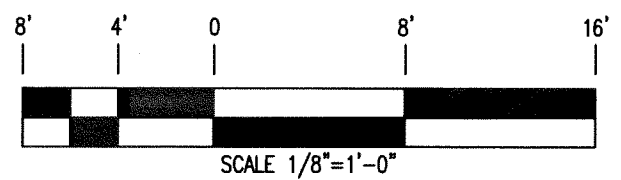




NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

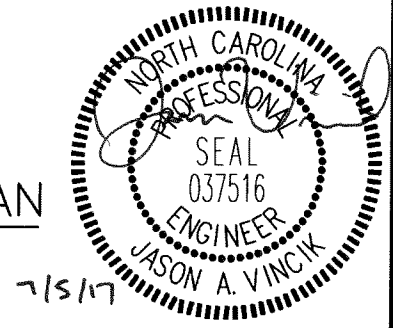
- ① DISCONNECT AND REMOVE EXISTING DIFFUSER AND ASSOCIATED FLEXIBLE DUCT BACK TO BRANCH.
- ② EXISTING VARIABLE VOLUME BOX TO REMAIN.
- ③ EXISTING THERMOSTAT TO REMAIN.
- ④ REMOVE "THERMA-FUSER" AND ASSOCIATED THERMOSTAT AND BRANCH DUCT. SEAL TAKE-OFF AIR TIGHT.
- ⑤ RELOCATE EXISTING THERMOSTAT.

NOTE: PROVIDE A PRE-CONSTRUCTION TAB REPORT WITH HOOD AIRFLOW MEASUREMENT FOR EACH EXISTING DIFFUSER IN AREA OF WORK.



01
MD-02 1/8" = 1'-0"

AREA 700 MECHANICAL DEMOLITION PLAN



FIRE LEGEND

2-HOUR RATED FIRE WALLS

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PERSON COUNTY SCHOOLS

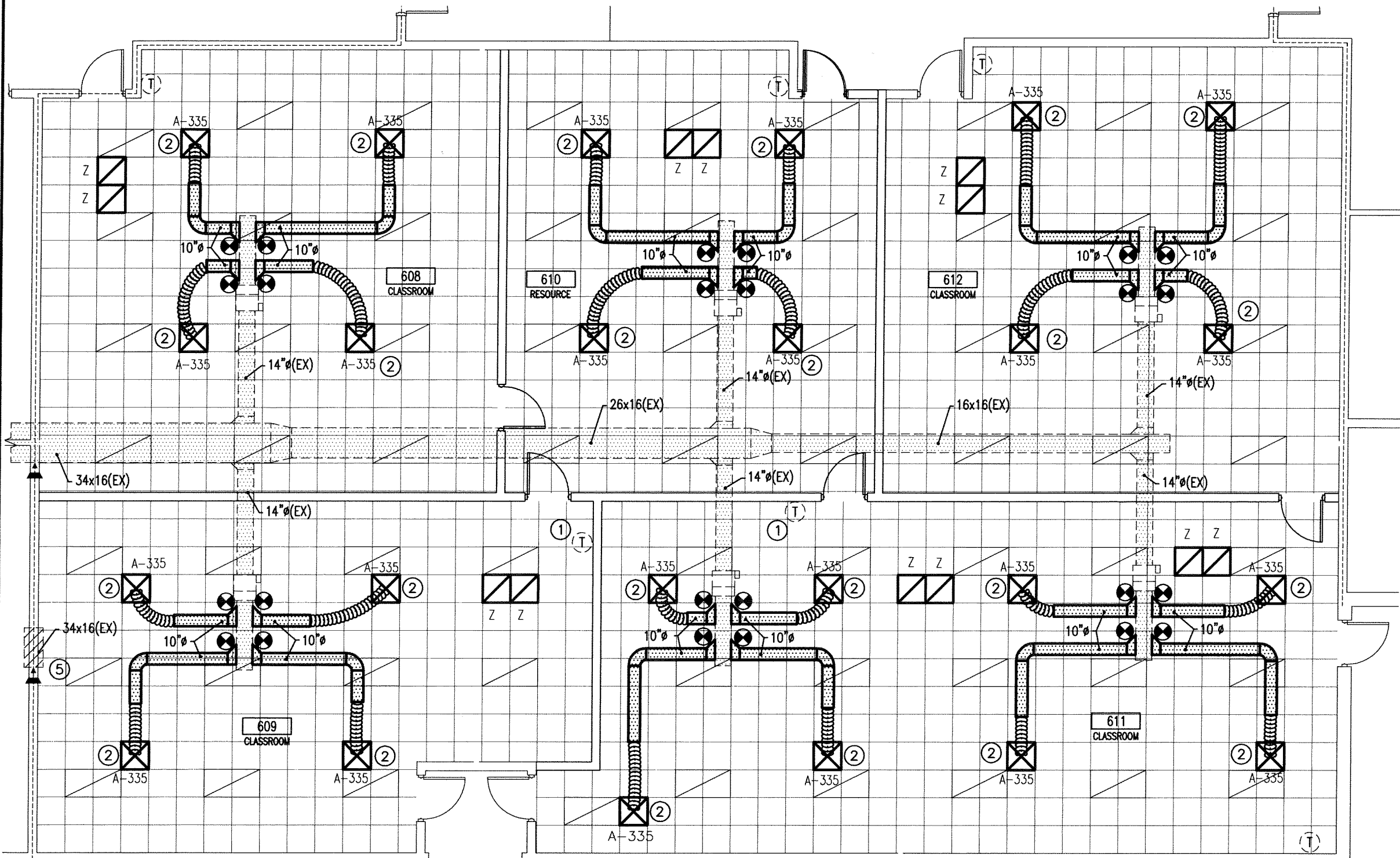
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AREA 700
MECHANICAL
DEMOLITION PLAN

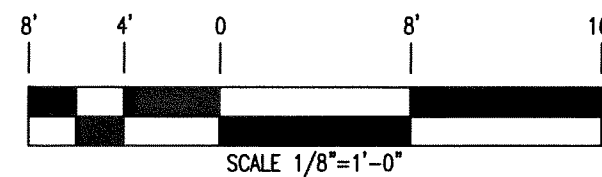
2017020 5 JULY 2017

MD-02



NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

- ① RELOCATE EXISTING THERMOSTAT TO THIS LOCATION.
- ② PROVIDE SUPPLY DIFFUSER AND EXTEND FLEXIBLE DUCT AND ROUND SHEET METAL DUCT BACK TO EXISTING TAKEOFF. PROVIDE BALANCING DAMPER AND BALANCE TO CFMS SHOWN.

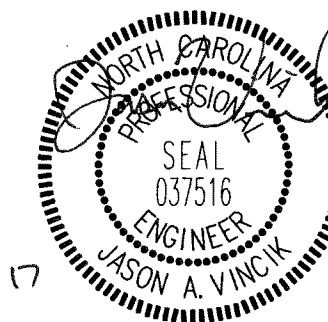


01
M1-01

AREA 600 MECHANICAL RENOVATION PLAN

1/8" = 1'-0"

71517



FIRE LEGEND

2-HOUR RATED FIRE WALLS

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PERSON COUNTY SCHOOLS

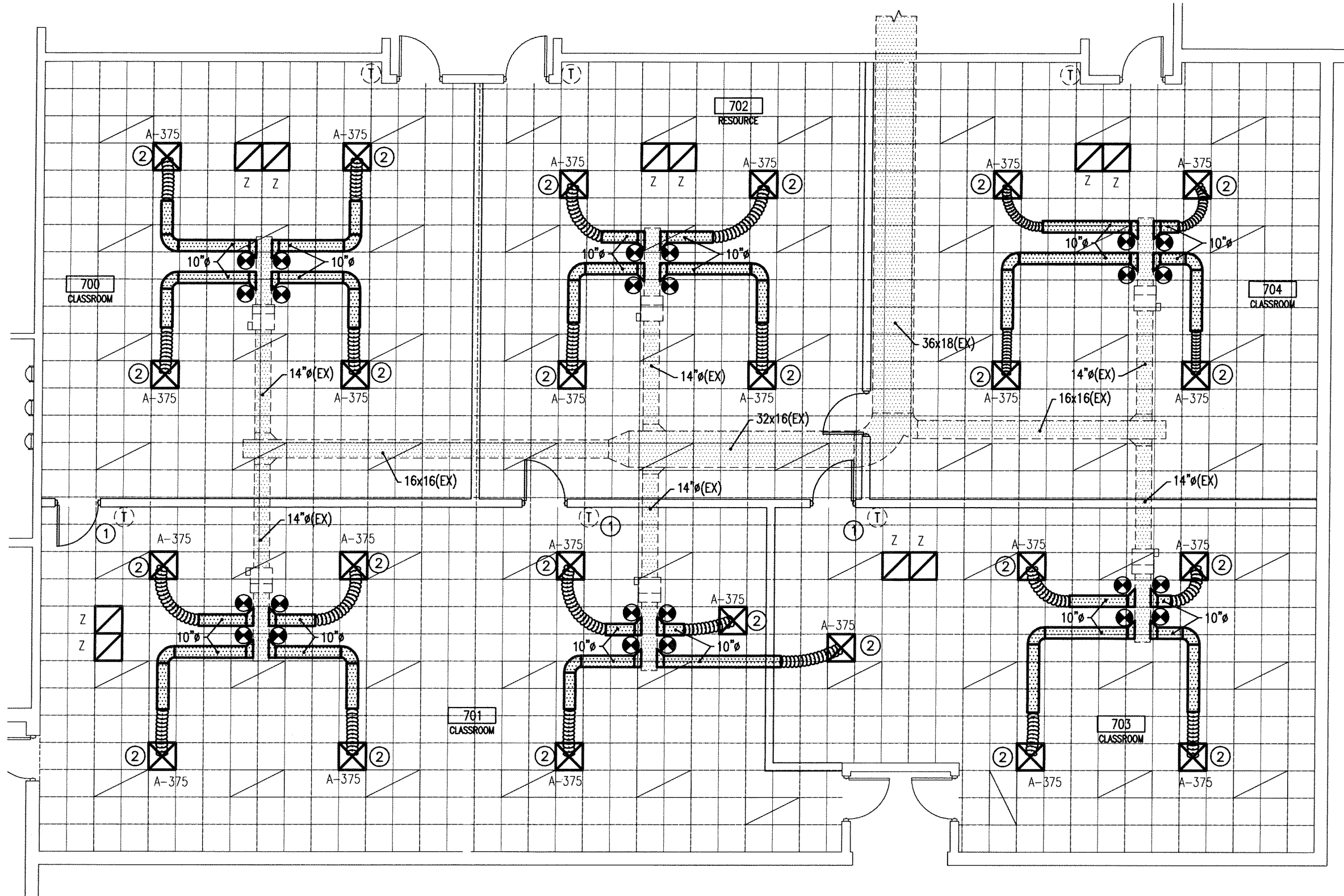
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DRAWN BY: JAV
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AREA 600
MECHANICAL
RENOVATION PLAN

2017020 5 JULY 2017

M1-01



FIRE LEGEND

2-HOUR RATED FIRE WALLS

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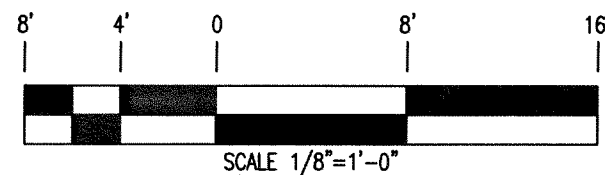
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PERSON COUNTY SCHOOLS
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DRAWN BY: JAV
CHECKED BY: JAV
AREA 700 MECHANICAL RENOVATION PLAN

2017020 5 JULY 2017
M1-02

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

- ① RELOCATE THERMOSTAT TO THIS LOCATION.
- ② PROVIDE SUPPLY DIFFUSER AND EXTEND FLEXIBLE DUCT AND ROUND SHEET METAL DUCT BACK TO EXISTING TAKEOFF. PROVIDE BALANCING DAMPER AND BALANCE TO CFMS SHOWN.



01
M1-02 1/8" = 1'-0"

AREA 700 MECHANICAL RENOVATION PLAN



ELECTRICAL ENERGY FORM

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

ENERGY CODE: PRESCRIPTIVE PERFORMANCE _____

ASHRAE 90.1: PRESCRIPTIVE _____ PERFORMANCE _____

LIGHTING SCHEDULE

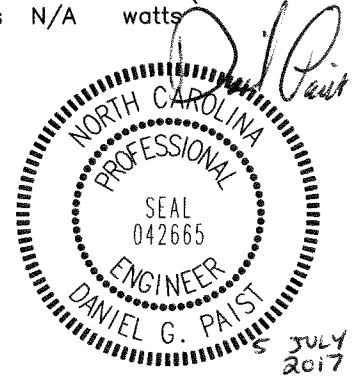
Lamp type required in fixture – See Fixture Schedule.
 Number of lamps in fixture – See Fixture Schedule.
 Ballast type used in the fixture – See Specifications.
 Number of ballasts in fixture – See Specifications.
 Total wattage per fixture – Varies – See Fixture Schedule
 Total interior wattage specified versus allowed: 5670 watts versus 13566 watts (SPACE BY SPACE)
 Total exterior wattage specified versus allowed: N/A watts versus N/A watts

ADDITIONAL PRESCRIPTIVE COMPLIANCE

- 506.2.1 More Efficient Mechanical Equipment
- 506.2.2 Reduced Lighting Power Density
- ____ 506.2.3 Energy Recovery Ventilation Systems
- ____ 506.2.4 Higher Efficiency Service Water Heating
- ____ 506.2.5 On-Site Supply of Renewable Energy
- ____ 506.2.6 Automatic Daylighting Control Systems

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the 2012 North Carolina State Building Code, Energy Conservation Code.



NAME: Daniel G. Paist, P.E.

SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
	LIGHT FIXTURE – LETTER DESIGNATES TYPE	SEE FIXTURE SCHEDULE
	COMBINATION EXIT/EGRESS LIGHT – ARROW INDICATES DIRECTION	SEE FIXTURE SCHEDULE
S	SINGLE POLE TOGGLE SWITCH – +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET, UNLESS OTHERWISE NOTED.	HUBBELL 1221-I WITH 97071 COVER
S ₃	3-WAY TOGGLE SWITCH – INSTALL +48" ABOVE FINISHED FLOOR TO TOP OF OUTLET	HUBBELL 1223-I WITH 97071 COVER
	DUPLEX RECEPTACLE – SPECIFICATION GRADE—INSTALL +16" AFF TO BOTTOM OF OUTLET, UNLESS OTHERWISE NOTED	HUBBELL 5262-I WITH STAINLESS STEEL PLATE
	DATA OUTLET – +16" AFF TO BOTTOM OF OUTLET, UNLESS OTHERWISE NOTED. STUB 1" CONDUIT 12" ABOVE THE NEAREST ACCESSIBLE CEILING.	SINGLE GANG BOX WITH STAINLESS STEEL COVER.
—	WIRING AND CONDUIT INSTALLED CONCEALED UNLESS OTHERWISE NOTED.	SEE SPECIFICATIONS
- - -	UNSWITCHED WIRING LEG AND CONDUIT INSTALLED CONCEALED UNLESS OTHERWISE NOTED.	SEE SPECIFICATIONS
	HOMERUN CIRCUIT PANELBOARD – NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS	SEE SPECIFICATIONS
	DUAL-TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR WATTSTOPPER "DT305" EQUALS BY HUBBELL & PASS & SEYMOUR	SEE SPECIFICATIONS
	WALL MOUNT EMERGENCY EGRESS BATTERY BACKUP FIXTURE	SEE FIXTURE SCHEDULE
	PA SYSTEM LOUD SPEAKER	
	SECURITY MOTION SENSOR	
	CEILING MOUNTED FIRE ALARM STROBE – # CD INDICATES CANDELLA RATING OF STROBE	SEE SPECIFICATIONS
	CEILING MOUNTED FIRE ALARM HORN/STROBE – # CD INDICATES CANDELLA RATING OF STROBE	SEE SPECIFICATIONS
	WALL MOUNTED OCCUPANCY SENSOR	
	WALL MOUNTED PHONE OUTLET	

LOAD SUMMARY

	TOTAL KVA	TOTAL DIVERSITY	CONNECTED KVA
INTERIOR LIGHTING REMOVED	13.44		
GENERAL PURPOSE RECEPTACLES REMOVED	7.2		
TOTAL REMOVED:	20.64KVA		
INTERIOR LIGHTING ADDED	5.67	x1.25	7.09
GENERAL PURPOSE RECEPTACLES ADDED	7.2	{ x1.0 }	7.2
	12.87		14.29

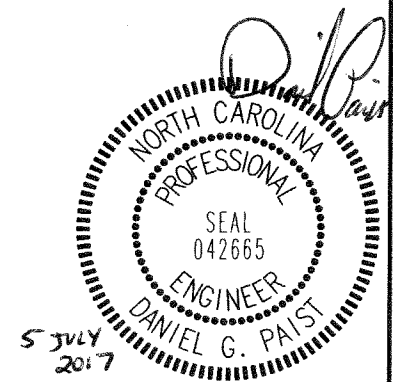
20.64KVA – 14.29 KVA = 6.35 KVA BUILDING LOAD REMOVED

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 PERSON COUNTY SCHOOLS
 1935 CARVER DR., ROXBORO, NC 27573



DRAWN BY: JPT
 CHECKED BY: DGP
ELECTRICAL SYMBOL LEGEND
 2017020 5 JULY 2017
E0-01

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER & CATALOG #	LAMPS	VOLTAGE	WATTS/ FIXTURE	EQUALS	NOTES
A	2'x4" LED 3500K LAY-IN (5600 LUMENS)	COLUMBIA LJT-24-35-HL-G-FS-A12-ED-U	LED	UNIVERSAL	45	COOPER, LITHONIA	②
X3	COMBINATION EXIT/EMERGENCY FIXTURE WITH BATTERY BACKUP	COMPASS# CCR	2-4W LED	UNIVERSAL	24	DUALLITE, LITHONIA	①
Z	TWO HEAD WALL PACK WITH BATTERY BACKUP	COMPASS# CU2SQ	2-4W LED	UNIVERSAL	24	DUALLITE, LITHONIA	①

NOTES:

- ① COORDINATE MOUNTING HEIGHT OF FIXTURE WITH ARCHITECT.
- ② ELECTRICAL CONTRACTOR SHALL SUPPORT LAY-IN LIGHT FIXTURES AS INDICATED IN DETAIL E0-04/02.

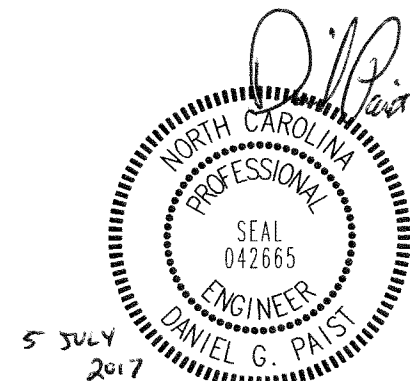
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**NORTHERN MIDDLE SCHOOL ALTERATIONS
PERSON COUNTY SCHOOLS**
1935 CARVER DR., ROXBORO, NC 27573

DRAWN BY: JPT
CHECKED BY: DGP
LIGHTING
FIXTURE
SCHEDULE
2017020 5 JULY 2017



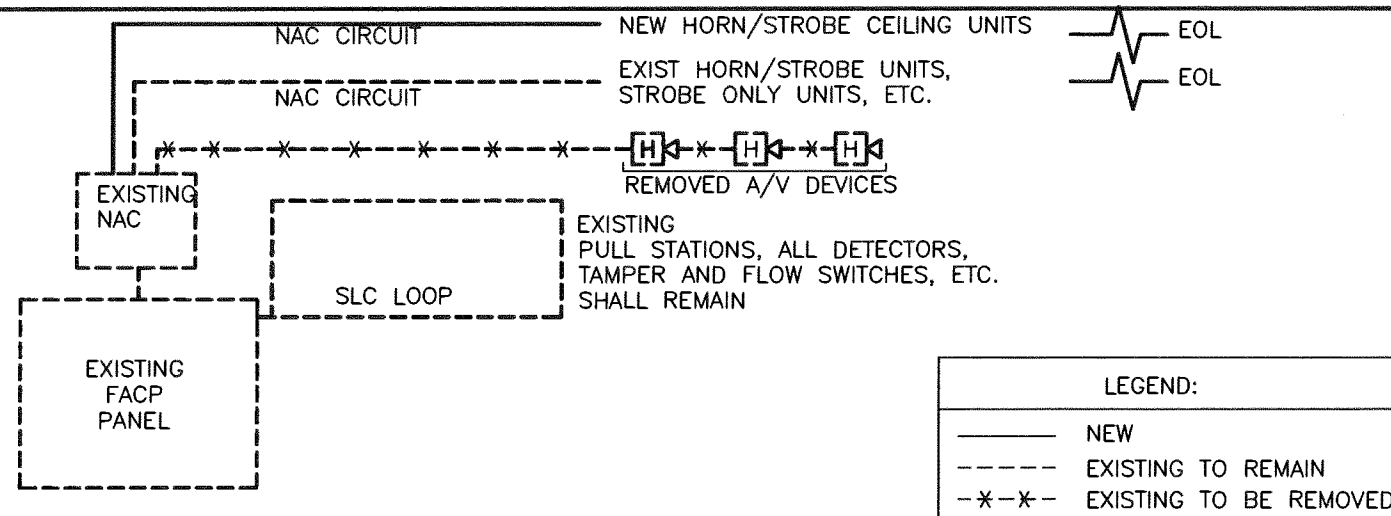
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GENERAL NOTES (CONTINUED)

15. CONDUCTORS FOR BRANCH CIRCUITS SHALL BE SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST OUTLET OF POWER, HEATING AND LIGHTING LOADS, OR ANY COMBINATION OF SUCH LOADS. THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET SHALL NOT EXCEED 5%.
 - A. WHERE THE CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 120V CIRCUIT EXCEEDS 50'-0" THE BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL NOT BE SMALLER THAN #10AWG. INCREASE THE BRANCH CIRCUIT CONDUCTOR SIZE AN ADDITIONAL WIRE SIZE FOR EACH 125' OF ADDITIONAL LENGTH OF THE ENTIRE CIRCUIT. THE GROUND CONDUCTOR SIZE SHALL BE INCREASED PROPORTIONATELY TO THE INCREASE IN THE PHASE CONDUCTORS PER 2011 NEC 250.122(B).
16. "NEW WORK" WHERE MULTI-WIRE BRANCH CIRCUITS EXIST AND ARE BEING REUSED FOR NEW RECEPTACLES THE CONTRACTOR SHALL PROVIDE AND INSTALL EITHER A DEDICATED NEUTRAL CONDUCTOR PER EACH CIRCUIT OR USE HANDLE TIES TO SERVE THE MULTI-WIRE BRANCH CIRCUITS. IF BREAKERS REQUIRE REARRANGING IN THE PANEL TO ACCOMMODATE THE HANDLE TIES, THEN THE CONTRACTOR SHALL REARRANGE AS NEEDED AND ADD THE HANDLE TIE OR A 3-POLE BREAKER.
17. NO CONDUITS SHALL BE LESS THAN 3/4" IN SIZE.
18. PROVIDE UPDATED TYPE WRITTEN PANEL SCHEDULES FOR AFFECTED PANELS.
19. ALL EXISTING AND NEW RECEPTACLES/SWITCHES SHALL BE IDENTIFIED WITH THE PANEL-CIRCUIT NO# ON ITS COVER PLATE UPON COMPLETION OF THE PROJECT. THE LABEL SHALL BE BLACK LETTERING ON WHITE BACKGROUND.
20. ALL FIRE ALARM EQUIPMENT SHALL BE NEW AND COMPATIBLE WITH THE EXISTING SYSTEM.
21. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A NEW FIRE ALARM ZONE MAP REFLECTING THE NEW REVISED FLOOR PLAN.
22. THE CONTRACTOR SHALL COORDINATE LOCATION OF NEW NAC PANEL IF NEEDED WITH THE OWNER/ARCHITECT. THE 120V CIRCUIT FOR THE NAC PANEL SHALL BE PROVIDED FROM THE NEAREST 120V PANEL. THAT BREAKER SHALL HAVE A BREAKER LOCK "ON" POSITION TO PREVENT SOMEONE FROM ACCIDENTALLY TURNING POWER OFF TO THE NAC PANEL.
23. BOLD REPRESENTS NEW WORK SCOPE. THIN AND LIGHT REPRESENTS EXISTING TO REMAIN.

GENERAL NOTES

1. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
3. USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS TO FORM A REDUNDANT GROUNDING SYSTEM.
4. IN ALL AREAS WHERE FIRE RATED WALLS, FLOOR SLABS, ROOF SLABS, OR CEILINGS ARE INSTALLED, ALL PENETRATIONS OF ELECTRICAL CONDUITS OR OTHER RELATED ELECTRICAL MATERIAL SHALL BE PROPERLY SEALED WITH APPROVED FIRE RATED MATERIALS TO MAINTAIN THE RATINGS OF THE BUILDING CONSTRUCTION.
5. ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES AND ORDINANCES.
6. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND FINISHES BEFORE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR THE CEILING TO BE INSTALLED. ANY DIFFERENCES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
7. EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
8. THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK AND MILLWORK TO BE FURNISHED.
9. WIRE SIZE TO ALL NEW RECEPTACLES SHALL BE #10 AWG.
10. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS.
11. WHERE MULTIPLE SWITCHES ARE SHOWN IN THE SAME LOCATION, THEY SHALL BE GANGED TOGETHER IN ONE MULTIPLE GANG BOX WITH MATCHING COVER.
12. WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHOD.
13. WIRE SIZE TO ALL EXIT/EMERGENCY LIGHTING SHALL BE #10 AWG. ALL EXIT/EMERGENCY FIXTURES SHALL BE WIRED AHEAD OF ALL SWITCHES.
14. WHERE NEW DEVICES/FIXTURES ARE ADDED OR ARE REMOVED/RELOCATED, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR CUTTING AND PATCHING OF THE EXISTING FLOORS, WALLS, CEILINGS AND ROOF. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING AND FLOOR FINISHING.



- NOTE:
- ① REFER TO FIRE ALARM SPECIFICATIONS.
 - ② PROVIDE ADDITIONAL NAC PANEL IF REQUIRED TO SUPPORT ADDITIONAL NOTIFICATION DEVICES.
 - ③ REFER TO GENERAL NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION.

DETAIL
NOT TO SCALE

FIRE ALARM RISER

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PERSON COUNTY SCHOOLS
 1935 CARVER DR., ROXBORO, NC 27573

D. Paist

NORTH CAROLINA
 PROFESSIONAL
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 042665
 ENGINEER
 DANIEL G. PAIST

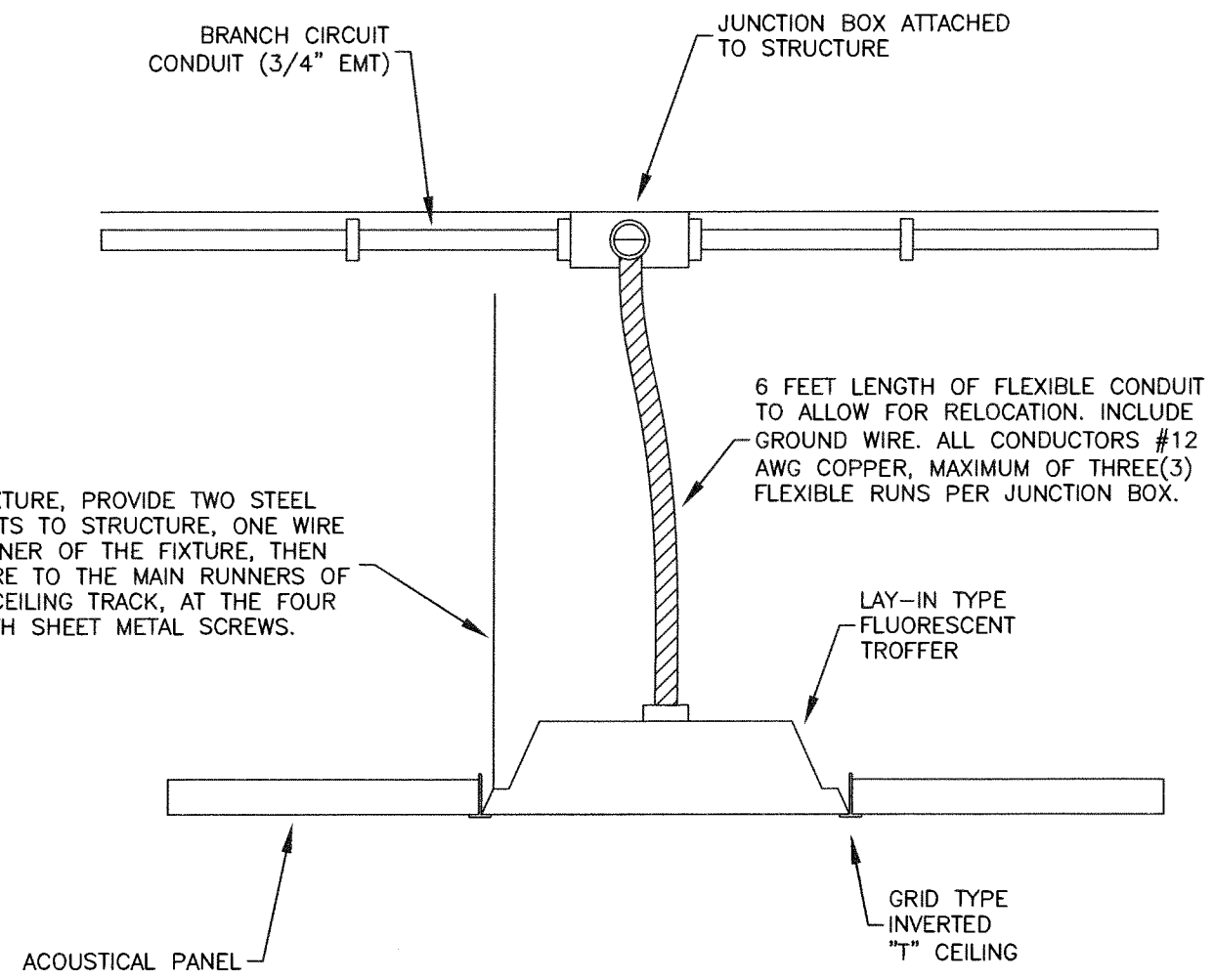
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ELECTRICAL GENERAL NOTES
FIRE ALARM RISER

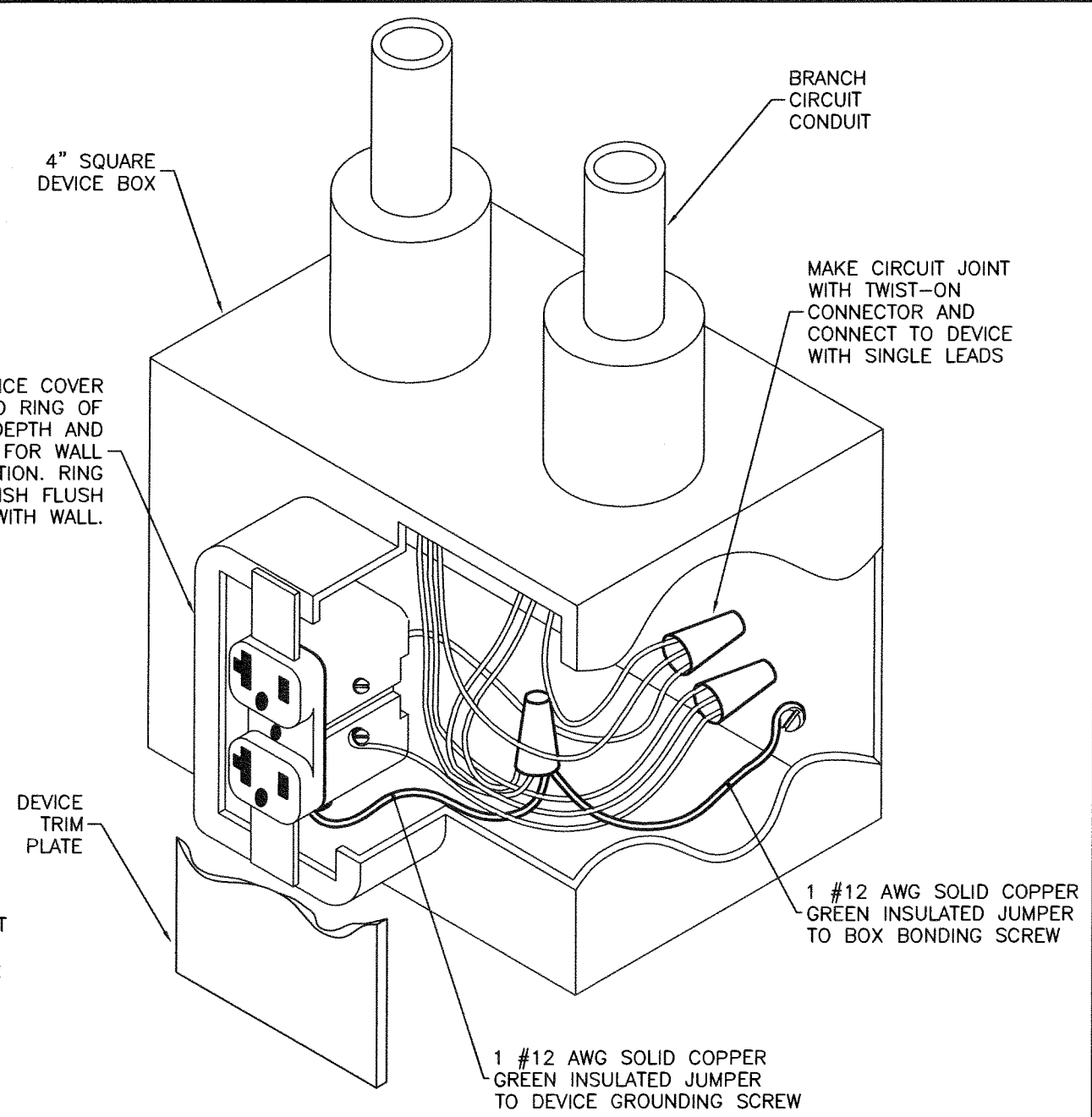
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E0-03



LAY-IN FIXTURE MOUNTING DETAIL

02 ELECTRICAL DETAIL
E0-04 NO SCALE



RECEPTACLE GROUNDING DETAIL

01 ELECTRICAL DETAIL
E0-04 NO SCALE

NOTE:
1. GROUND PIN ORIENTATION FOR NEW RECEPTACLES SHALL MATCH EXISTING RECEPTACLES AT SITE.

5 JULY 2017

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042665 DANIEL G. PAIST

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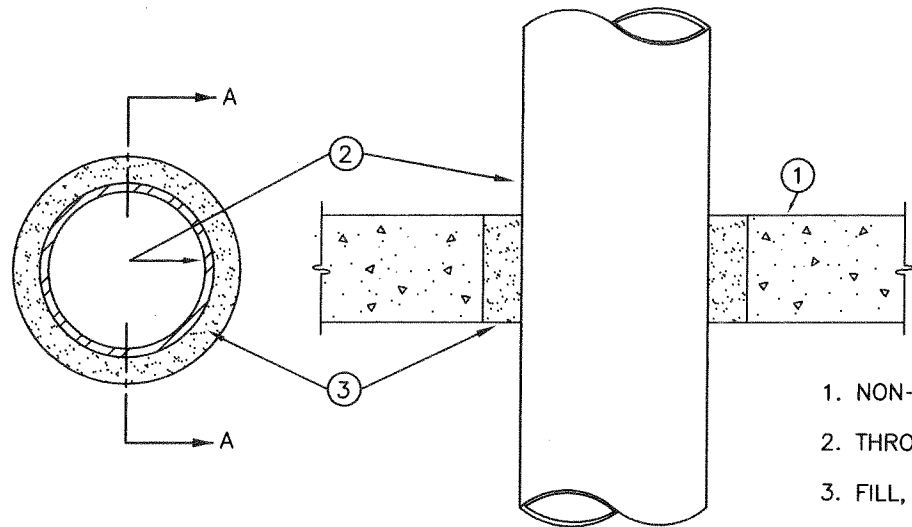
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ELECTRICAL DETAILS

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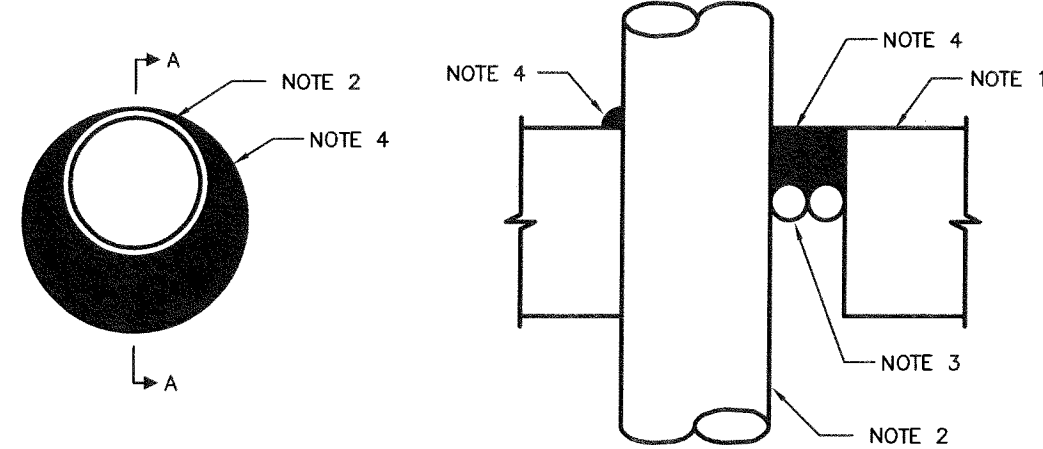
E0-04



SECTION A-A

1. NON-RATED FLOOR OR WALL.
2. THROUGH PENETRANTS - ONE PIPE, OR CONDUIT.
3. FILL, VOID, OR CAVITY MATERIAL: FIRE CAULK.

NON-RATED WALL PIPE PENETRATION



SECTION A-A

- F RATING - 2, 3 AND 4 HR. (SEE ITEMS 2A AND 4)
 T RATING - 0 HR.
 L RATING AT AMBIENT - 2 CFM/SQ FT
 L RATING AT 400 F - LESS THAN 1 CFM/SQ FT
 W RATING - CLASS 1 (SEE ITEM 4)

3. PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOM 1 IN. THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4).
- 3A. FORMING MATERIAL* - AS AN ALTERNATE TO THE PACKING MATERIAL IN ITEM 3, NOM 4 IN WIDE STRIPS OF MIN 1/2 IN THICK COMPRESSIBLE MAT TO BE STACKED TO A THICKNESS GREATER THAN THE WIDTH OF THE ANNULAR SPACE AND COMPRESSION-FITTED, EDGE-FIRST, TO FILL THE ANNULAR SPACE TO A MIN 4 IN DEPTH. AS AN OPTION, THE STRIPS OF MIN 1/2 IN THICK COMPRESSIBLE MAT MAY BE FOLDED IN HALF, LENGTHWISE, AND STACKED TO A THICKNESS GREATER THAN THE WIDTH OF THE ANNULAR SPACE AND COMPRESSION-FITTED, EDGE-FIRST, TO FILL THE ANNULAR SPACED TO A MIN 2 IN DEPTH. TOP OF THE FORMING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS NECESSARY TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL.
4. FILL, VOID OR CAVITY MATERIAL* - CAULK, SEALANT - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE. AT POINT CONTACT LOCATION BETWEEN PENETRANT AND SLEEVE OR BETWEEN PENETRANT AND CONCRETE, A MIN 1/4 IN BEAD OF CAULK SHALL BE APPLIED AT TOP SURFACE OF FLOOR AND AT BOTH SURFACES OF WALL. THE HOURLY F RATINGS AND THE MIN REQUIRED CAULK THICKNESSES ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN IN THE FOLLOWING TABLE:

MIN FLOOR OR WALL THKNS. IN	NOM PIPE TUBE OR CONDUIT DIAM. IN	MAX ANNULAR SPACE, IN	MIN CAULK THKNS. IN	F RATING, HR
2-1/2	1/2 - 12	1-3/8	1/2	2
2-1/2	1/2 - 12	3-1/4	1	2
4-1/2	1/2 - 6	1-3/8	1/4(a)	2
4-1/2	1/2 - 12	1-1/4	1/2	3
4-1/2	1/2 - 20	2	1	3
4-1/2	1/2 - 20	2	1	3
4-1/2	1/2 - 12	3-1/4	1	3
4-1/2	22 - 30	2	2	3
5-1/2	1/2 - 6	1-3/8	1(b)	4

(a) MIN 2 IN THICKNESS OF MINERAL WOOL BATT INSULATION OR FORMING MATERIAL (ITEM 3A) REQUIRED IN ANNULAR SPACE.
 (b) MIN 1 IN THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MIN 1 IN THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.

*BEARING THE UL CLASSIFICATION MARKING.

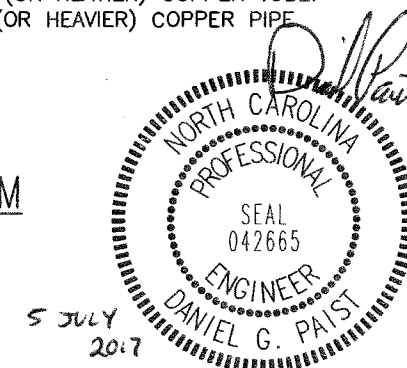
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1. FLOOR OR WALL ASSEMBLY - LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. EXCEPT AS NOTED IN TABLE UNDER ITEM 4, MIN THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4-1/2 IN. FLOOR MAY ALSO BE CONSTRUCTED OF ANY MIN 6 IN. THICK UL CLASSIFIED HOLLOW CORE PRECAST CONCRETE UNITS*. WHEN FLOOR IS CONSTRUCTED OF HOLLOW CORE PRECAST CONCRETE UNITS, PACKING MATERIAL (ITEM 3) AND CAULK FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF FLOOR, FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS IN SOLID LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE. FLOOR IS 32 IN. MAX DIAM OF OPENING IN FLOOR CONSTRUCTED OF HOLLOW-CORE PRECAST CONCRETE UNITS IS 7 IN.

SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

- 1A. STEEL SLEEVE - (OPTIONAL, NOT SHOWN) - NOMINAL 16 IN. DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2 IN. ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. AS AN ALTERNATE, NOMINAL 16 IN. DIAMETER (OR SMALLER) MIN 0.028 WALL THICKNESS (OR HEAVIER) GALVANIZED STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY FLUSH WITH FLOOR OR WALL SURFACES.
2. THROUGH PENETRATES - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. MAX ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND EDGE OF THROUGH OPENING OR SLEEVE IS DEPENDENT ON THE PARAMETERS SHOWN IN ITEM 4. MIN ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS ZERO IN. (POINT CONTACT). MAX ANNULAR SPACE TO BE AS SHOWN IN THE TABLE IN ITEM 4. PIPE CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - A. STEEL PIPE - NOM 30 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - B. IRON PIPE - NOM 30 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - C. CONDUIT - NOM 6 IN. DIAM (OR SMALLER) RIGID STEEL CONDUIT.
 - D. CONDUIT - NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
 - E. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE.
 - F. COPPER PIPE - NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

THROUGH - PENETRATION FIRESTOP SYSTEM
NO. CAJ1044 - BLOCK WALL



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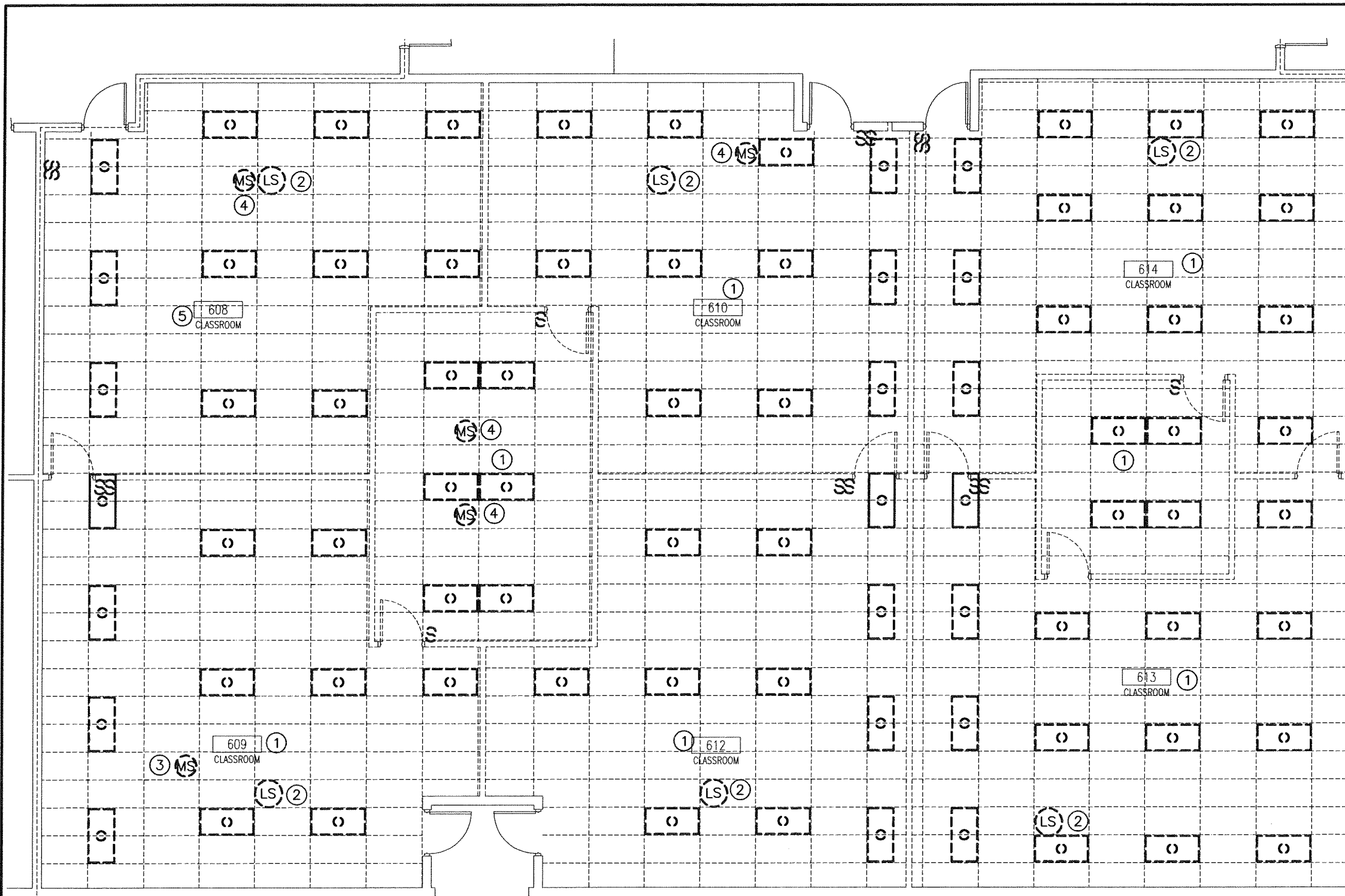
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PENETRATION DETAILS

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E0-05



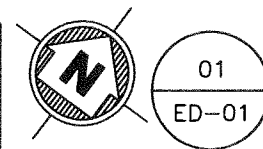
DEMOLITION NOTES:

1. UNLESS NOTED OTHERWISE, ALL EXISTING PANELS ARE SHOWN FOR REFERENCE ONLY AND SHALL REMAIN.
2. ANY ITEMS REMOVED SHALL BE OFFERED TO THE OWNER. THE OWNER MAY RETAIN ANY ITEM REMOVED. ANY ITEM THAT THE OWNER DOES NOT RETAIN BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ANY HOLES IN REMAINING WALLS RESULTING FROM THE REMOVAL OF ELECTRICAL DEVICES.
4. REMOVE ALL ELECTRICAL DEVICES, WHETHER SHOWN ON PLANS OR NOT, WHICH ARE LOCATED IN WALLS SUBJECT TO REMOVAL OR IN AREAS SPECIFICALLY REFERRED TO IN NOTES.
5. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ALL CIRCUIT CONTINUITY TO ALL REMAINING CIRCUITS IN AREAS WHERE PART, BUT NOT ALL, OF THE CIRCUIT IS BEING REMOVED.
6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE PRIOR TO THE BID TO DETERMINE FIELD CONDITIONS AND TO FIELD VERIFY THE EXTENT OF THE DEMOLITION WORK.
7. ALL ITEMS SHOWN ON DEMOLITION PLANS SHALL BE REMOVED IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED.
8. BOLD AND DASHED REPRESENT DEMOLITION. LIGHT AND THIN REPRESENT EXISTING TO REMAIN.

- NOTES:** (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
- ④ REMOVE EXISTING MOTION SENSOR AND ITS ASSOCIATED WIRING.
 - ⑤ REMOVE ALL EXISTING LIGHT FIXTURES AND ASSOCIATED CONDUIT, WIRING AND SWITCHES. THE EXISTING CIRCUITS THAT SERVED THIS ROOM SHALL BE REUSED & EXTENDED TO THE NEW LIGHTS AND SWITCHES SHOWN ON NEW WORK PLAN E1-01.
 - ① REMOVE ALL EXISTING LIGHT FIXTURES AND ASSOCIATED CONDUIT, WIRING AND SWITCHES IN THEIR ENTIRETY.
 - ② REMOVE LOUDSPEAKER, STORE AND PROTECT DEVICE FOR REINSTALLATION, EXISTING WIRING SHALL REMAIN AND BE PROTECTED. REFER NEW WORK PLAN E1-01.
 - ③ REMOVE MOTION SENSOR, STORE AND PROTECT DEVICE FOR REINSTALLATION, EXISTING WIRING SHALL REMAIN AND BE PROTECTED. REFER NEW WORK PLAN E1-01.

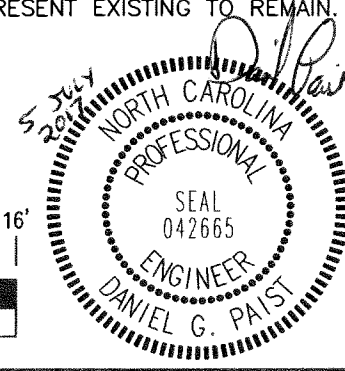
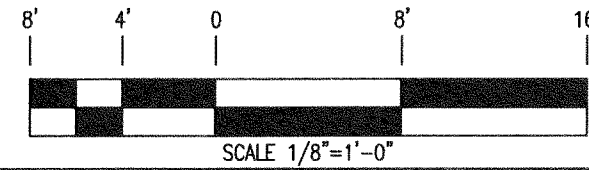
FIRE LEGEND

2-HOUR RATED FIRE WALLS



AREA 600 LIGHTING DEMOLITION PLAN

ED-01 1/8" = 1'-0"



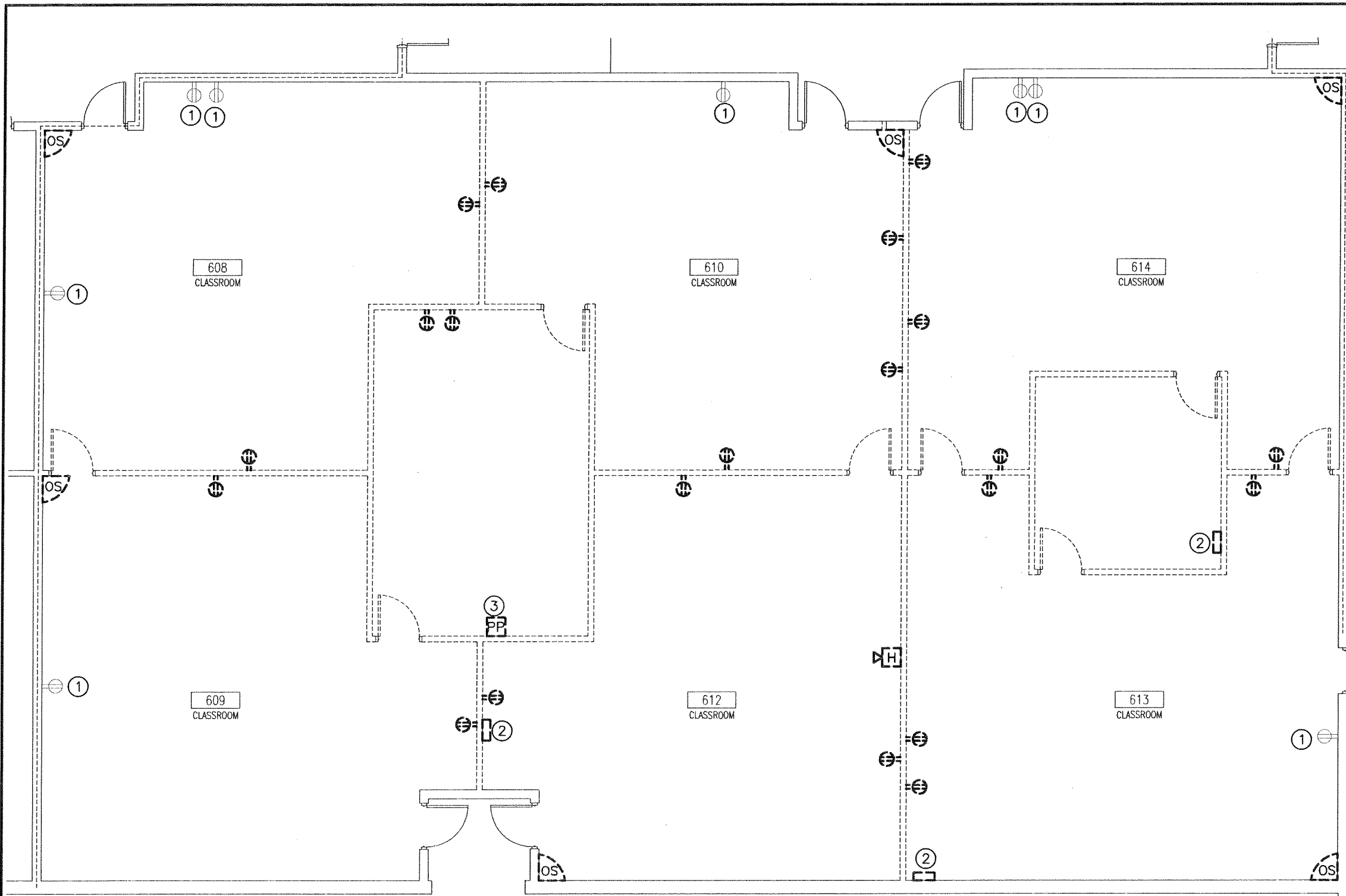
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AREA 600 LIGHTING DEMOLITION PLAN
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3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ANY HOLES IN REMAINING WALLS RESULTING FROM THE REMOVAL OF ELECTRICAL DEVICES.
4. REMOVE ALL ELECTRICAL DEVICES, WHETHER SHOWN ON PLANS OR NOT, WHICH ARE LOCATED IN WALLS SUBJECT TO REMOVAL OR IN AREAS SPECIFICALLY REFERRED TO IN NOTES.
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6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE PRIOR TO THE BID TO DETERMINE FIELD CONDITIONS AND TO FIELD VERIFY THE EXTENT OF THE DEMOLITION WORK.
7. ALL ITEMS SHOWN ON DEMOLITION PLANS SHALL BE REMOVED IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED.
8. BOLD AND DASHED REPRESENTS DEMOLITION. LIGHT AND THIN REPRESENT EXISTING TO REMAIN.

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

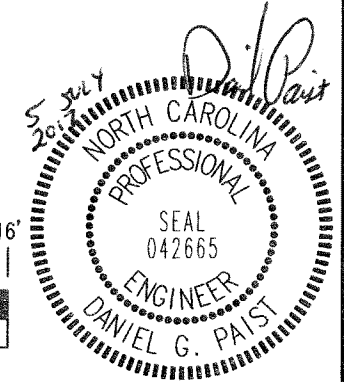
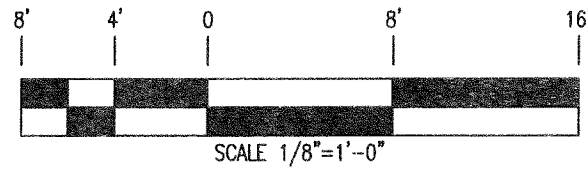
- ① REMOVE EXISTING RECEPTACLE AND COVERPLATE. EXISTING BACKBOX AND WIRING SHALL REMAIN.
- ② REMOVE EXISTING WIREMOLD SURFACE RACEWAY IN ITS ENTIRETY.
- ③ REMOVE EXISTING POWER POLE IN ITS ENTIRETY.

FIRE LEGEND

2-HOUR RATED FIRE WALLS



01 AREA 600 POWER DEMOLITION PLAN
ED-02 1/8" = 1'-0"



NORTHERN MIDDLE SCHOOL ALTERATIONS
 PERSON COUNTY SCHOOLS
 1935 CARVER DR., ROXBORO, NC 27573

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AREA 600
POWER
DEMOLITION PLAN

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ED-02

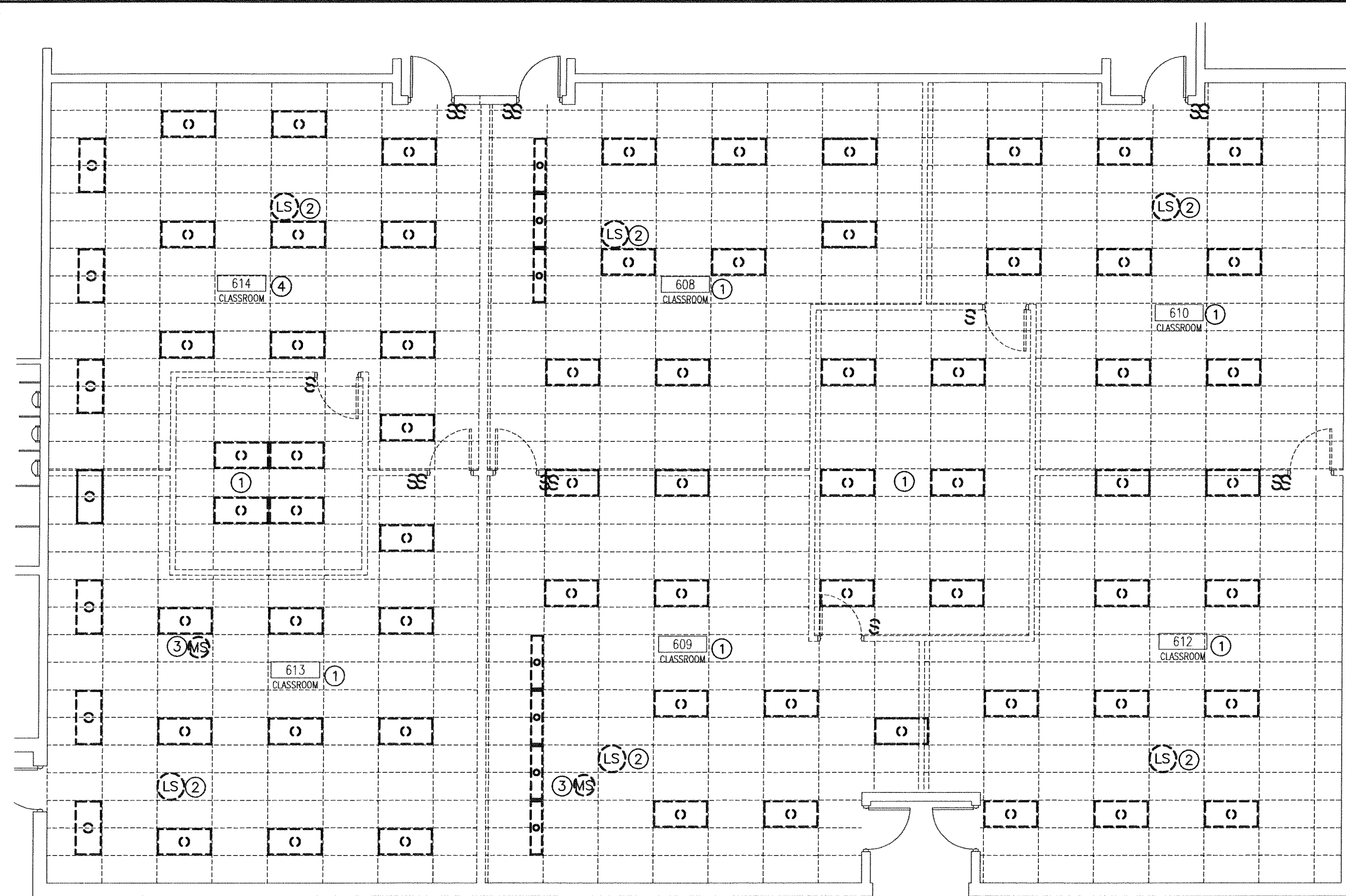
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DEMOLITION NOTES:

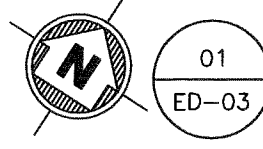
1. UNLESS NOTED OTHERWISE, ALL EXISTING PANELS ARE SHOWN FOR REFERENCE ONLY AND SHALL REMAIN.
2. ANY ITEMS REMOVED SHALL BE OFFERED TO THE OWNER. THE OWNER MAY RETAIN ANY ITEM REMOVED. ANY ITEM THAT THE OWNER DOES NOT RETAIN BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ANY HOLES IN REMAINING WALLS RESULTING FROM THE REMOVAL OF ELECTRICAL DEVICES.
4. REMOVE ALL ELECTRICAL DEVICES, WHETHER SHOWN ON PLANS OR NOT, WHICH ARE LOCATED IN WALLS SUBJECT TO REMOVAL OR IN AREAS SPECIFICALLY REFERRED TO IN NOTES.
5. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ALL CIRCUIT CONTINUITY TO ALL REMAINING CIRCUITS IN AREAS WHERE PART, BUT NOT ALL, OF THE CIRCUIT IS BEING REMOVED.
6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE PRIOR TO THE BID TO DETERMINE FIELD CONDITIONS AND TO FIELD VERIFY THE EXTENT OF THE DEMOLITION WORK.
7. ALL ITEMS SHOWN ON DEMOLITION PLANS SHALL BE REMOVED IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED.
8. BOLD AND DASH REPRESENT DEMOLITION. LIGHT AND THIN REPRESENT EXISTING TO REMAIN.

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

- ④ REMOVE ALL EXISTING LIGHT FIXTURES AND ASSOCIATED CONDUIT, WIRING AND SWITCHES. THE EXISTING CIRCUITS THAT SERVED THIS ROOM SHALL BE REUSED & EXTENDED TO THE NEW LIGHTS AND SWITCHES SHOWN ON NEW WORK PLAN E1-03.
- ① REMOVE ALL EXISTING LIGHT FIXTURES AND ASSOCIATED CONDUIT, WIRING AND SWITCHES IN THEIR ENTIRETY.
- ② REMOVE EXISTING LOUDSPEAKER, STORE AND PROTECT DEVICE FOR REINSTALLATION. EXISTING WIRING SHALL REMAIN AND BE PROTECTED. REFER TO NEW WORK PLAN E1-03.
- ③ REMOVE EXISTING MOTION SENSOR, STORE AND PROTECT DEVICE FOR REINSTALLATION. EXISTING WIRING SHALL REMAIN AND BE PROTECTED. REFER TO NEW WORK PLAN E1-03.

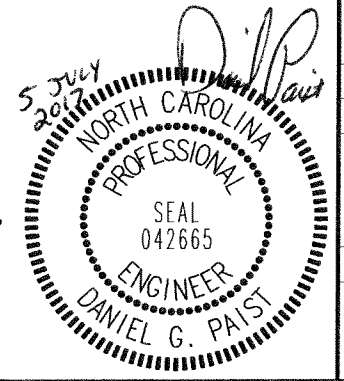
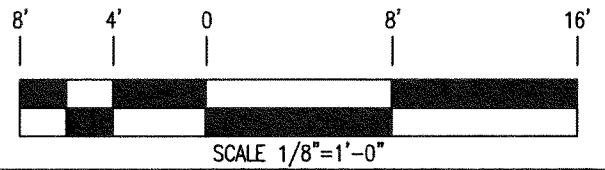
FIRE LEGEND

2-HOUR RATED FIRE WALLS



AREA 700 LIGHTING DEMOLITION PLAN

1/8" = 1'-0"



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PERSON COUNTY SCHOOLS

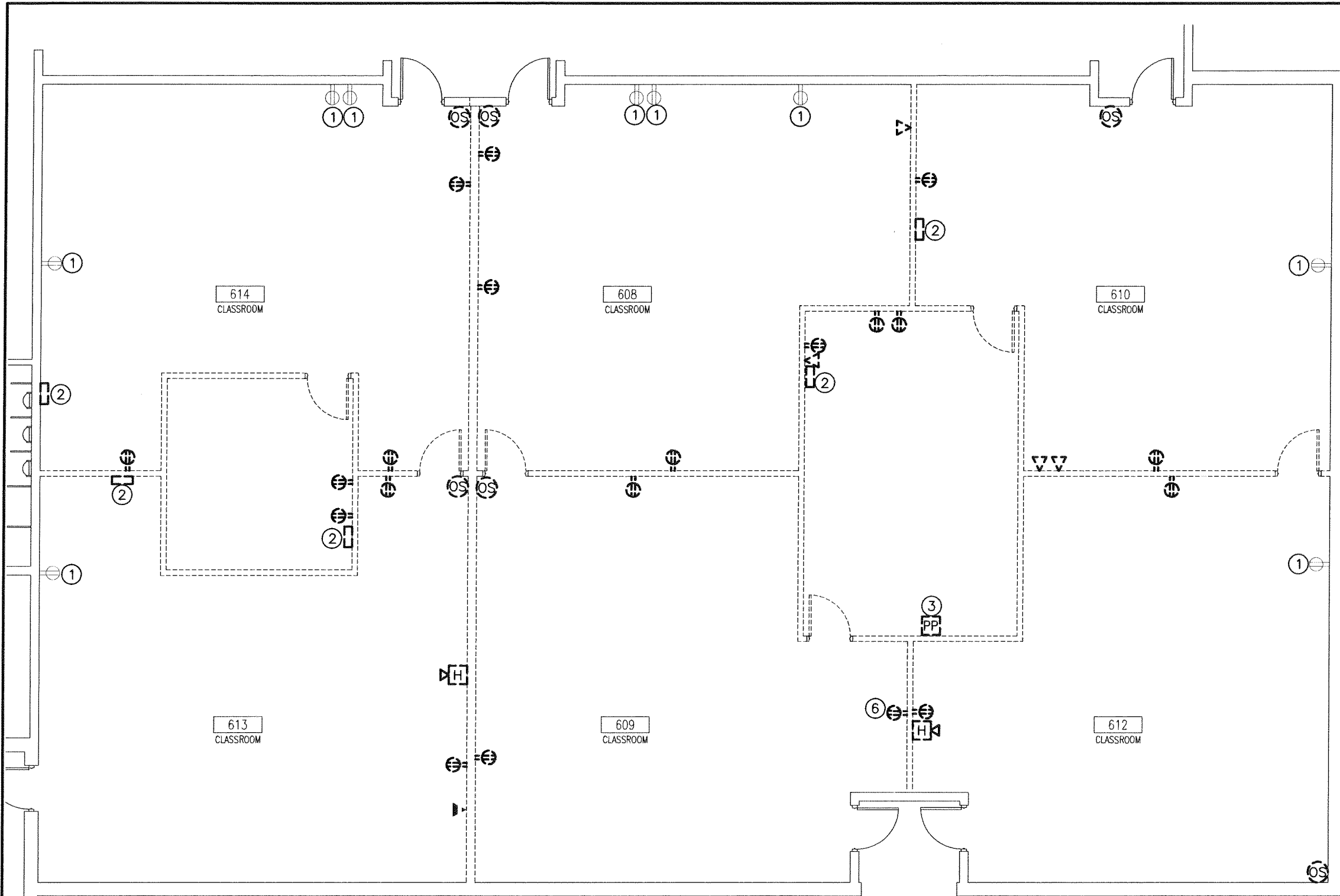
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DRAWN BY: JPT
CHECKED BY: DGP

AREA 700 LIGHTING DEMOLITION PLAN

2017020 5 JULY 2017

ED-03



DEMOLITION NOTES:

1. UNLESS NOTED OTHERWISE, ALL EXISTING PANELS ARE SHOWN FOR REFERENCE ONLY AND SHALL REMAIN.
2. ANY ITEMS REMOVED SHALL BE OFFERED TO THE OWNER. THE OWNER MAY RETAIN ANY ITEM REMOVED. ANY ITEM THAT THE OWNER DOES NOT RETAIN BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ANY HOLES IN REMAINING WALLS RESULTING FROM THE REMOVAL OF ELECTRICAL DEVICES.
4. REMOVE ALL ELECTRICAL DEVICES, WHETHER SHOWN ON PLANS OR NOT, WHICH ARE LOCATED IN WALLS SUBJECT TO REMOVAL OR IN AREAS SPECIFICALLY REFERRED TO IN NOTES.
5. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ALL CIRCUIT CONTINUITY TO ALL REMAINING CIRCUITS IN AREAS WHERE PART, BUT NOT ALL, OF THE CIRCUIT IS BEING REMOVED.
6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE PRIOR TO THE BID TO DETERMINE FIELD CONDITIONS AND TO FIELD VERIFY THE EXTENT OF THE DEMOLITION WORK.
7. ALL ITEMS SHOWN ON DEMOLITION PLANS SHALL BE REMOVED IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED.
8. BOLD AND DASHED REPRESENT DEMOLITION. LIGHT AND THIN REPRESENT EXISTING TO REMAIN.

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

- ① REMOVE EXISTING RECEPTACLE AND COVERPLATE. EXISTING BACKBOX AND WIRING SHALL REMAIN.
- ② REMOVE EXISTING WIREMOLD SURFACE RACEWAY IN ITS ENTIRETY.
- ③ REMOVE EXISTING POWER POLE IN ITS ENTIRETY.

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DRAWN BY: JPT
CHECKED BY: DGP

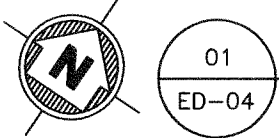
AREA 700
POWER
DEMOLITION PLAN

2017020 5 JULY 2017

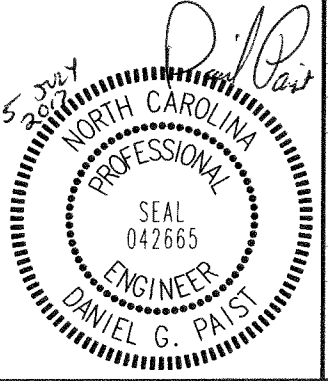
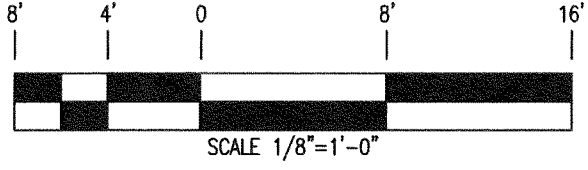
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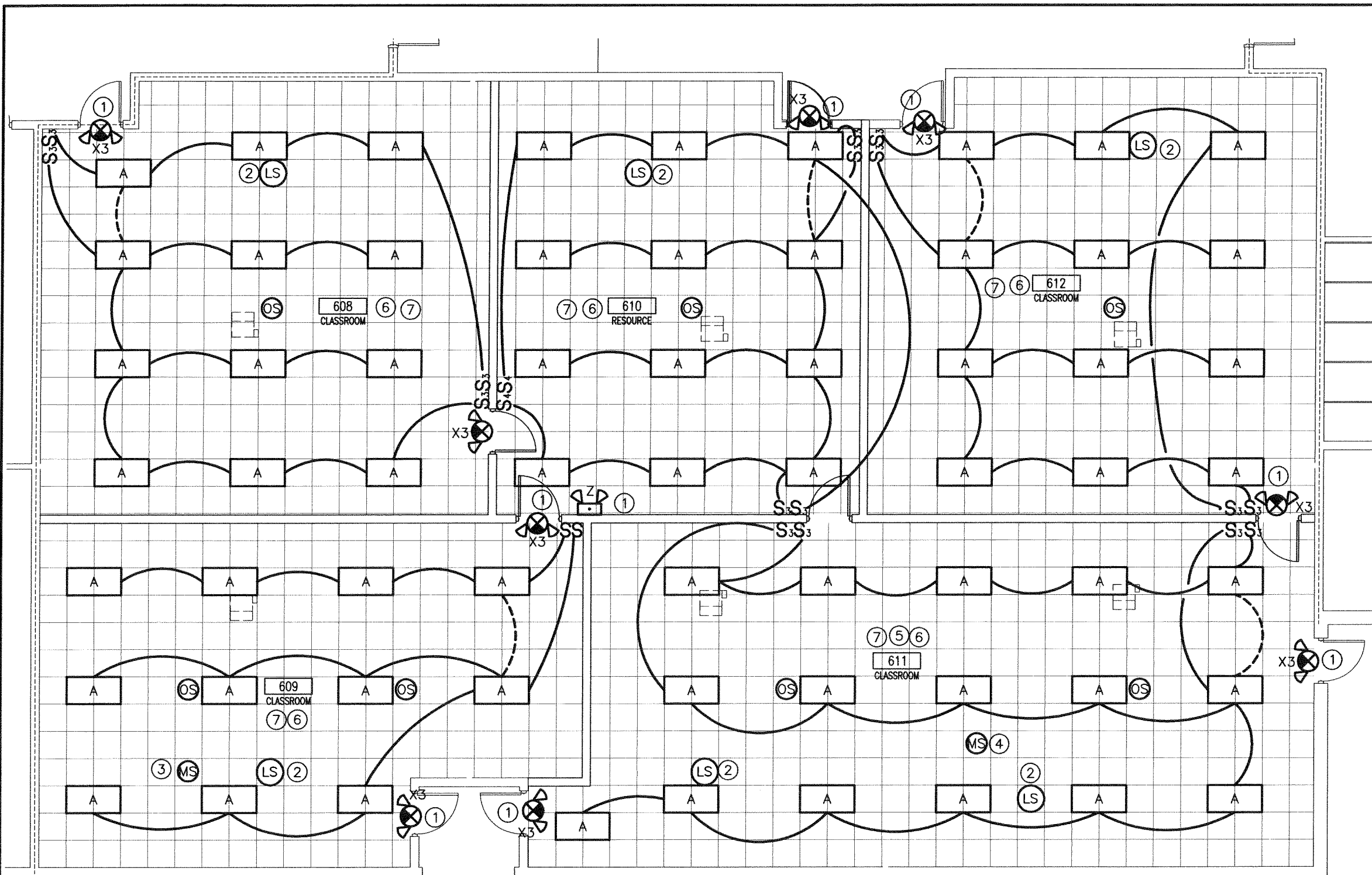
FIRE LEGEND

2-HOUR RATED FIRE WALLS



01 AREA 700 POWER DEMOLITION PLAN
ED-04 1/8" = 1'-0"





- ⑤ CONTRACTOR SHALL WIRE THESE SPEAKERS IN ROOM TOGETHER. THE SPEAKERS SHALL OPERATE WITH THE PUSH TO CALL BUTTON THAT IS ASSIGNED TO THAT ROOM.
- ⑥ PROVIDE AND INSTALL NEW LIGHT FIXTURES, OCCUPANCY SENSORS, SWITCHES, COVERPLATES, CONDUIT, WIRING AND SUPPORTS. TIE INTO THE LIGHTING CIRCUIT PREVIOUSLY SERVING THIS AREA.
- ⑦ COORDINATE BATT INSULATION WITH ARCHITECTS PLANS, NO INSULATION SHALL BE PLACED OVER LIGHT FIXTURES.

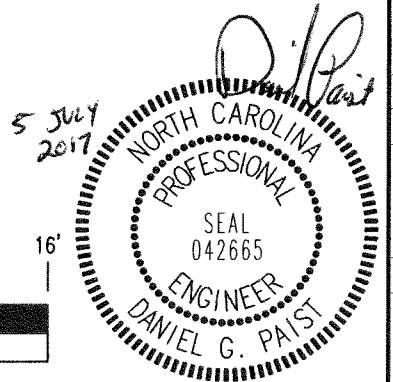
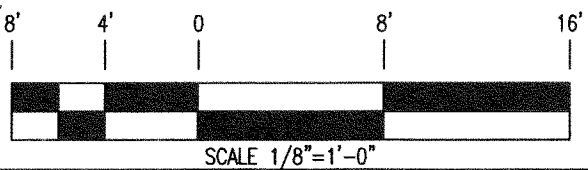
- NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)
- ① WIRE EMERGENCY FIXTURE AHEAD OF SWITCH AND TIE INTO LIGHTING CIRCUIT IN ROOM.
 - ② REINSTALL EXISTING LOUDSPEAKER AT LOCATION AS SHOWN. REUSE EXISTING SPEAKER WIRING WHERE AVAILABLE.
 - ③ REINSTALL EXISTING MOTION SENSOR AT LOCATION AS SHOWN. REUSE EXISTING MOTION SENSOR WIRING.
 - ④ REUSE EXISTING LEFTOVER MOTION SENSORS AND INSTALL WITH NEW WIRING AT LOCATION AS SHOWN.

FIRE LEGEND

 2-HOUR RATED FIRE WALLS



01 AREA 600 LIGHTING RENOVATION PLAN
 E1-01 1/8" = 1'-0"



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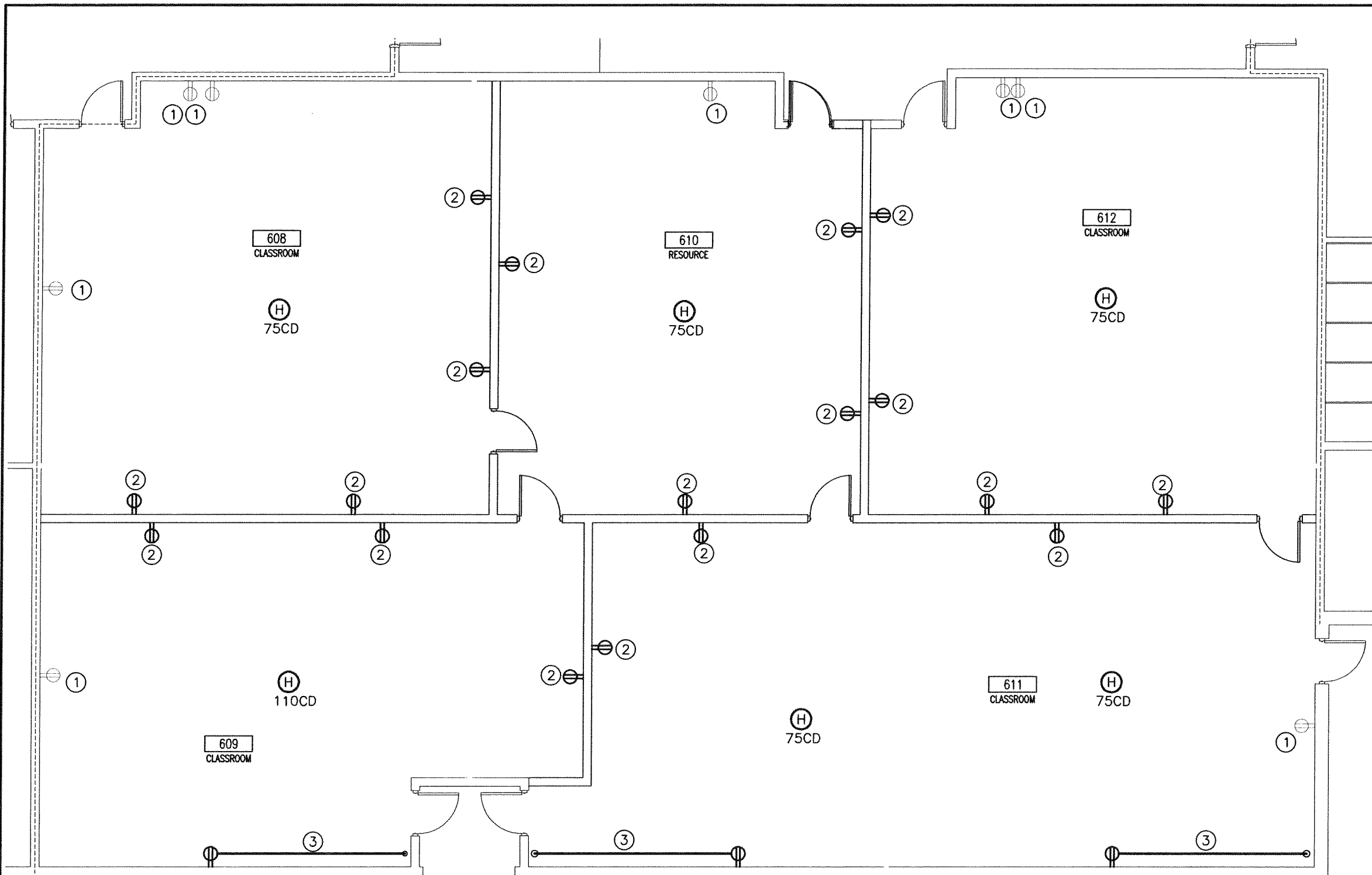
NORTHERN MIDDLE SCHOOL ALTERATIONS
PERSON COUNTY SCHOOLS
 1935 CARVER DR., ROXBORO, NC 27573

DRAWN BY: JPT
 CHECKED BY: DGP

AREA 600 LIGHTING RENOVATION PLAN

2017020 5 JULY 2017

E1-01



③ PROVIDE AND INSTALL NEW RECEPTACLE, COVERPLATE, SURFACE RACEWAY AND WIRING. TIE INTO THE EXISTING RECEPTACLE CIRCUIT THAT IS IN AREA. THE CONTRACTOR SHALL ROUTE SURFACE RACEWAY ALONG WALL AND UP TO ABOVE LAY-IN CEILING, CONTINUE WITH CONDUIT TO EXISTING RECEPTACLE AND OR PANEL FOR CIRCUIT.

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

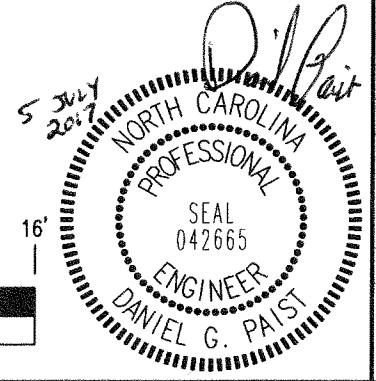
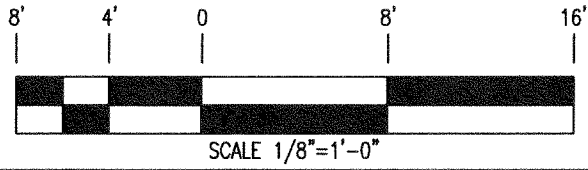
- ① PROVIDE AND INSTALL NEW RECEPTACLE AND COVERPLATE. REUSE EXISTING BACKBOX AND WIRING.
- ② EXTEND EXISTING RECEPTACLE CIRCUIT IN AREA TO NEW RECEPTACLE.

FIRE LEGEND

2-HOUR RATED FIRE WALLS



01 AREA 600 POWER RENOVATION PLAN
E1-02 1/8" = 1'-0"



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DRAWN BY: JPT
 CHECKED BY: DGP
 AREA 600
 POWER
 RENOVATION PLAN

2017020 5 JULY 2017

E1-02

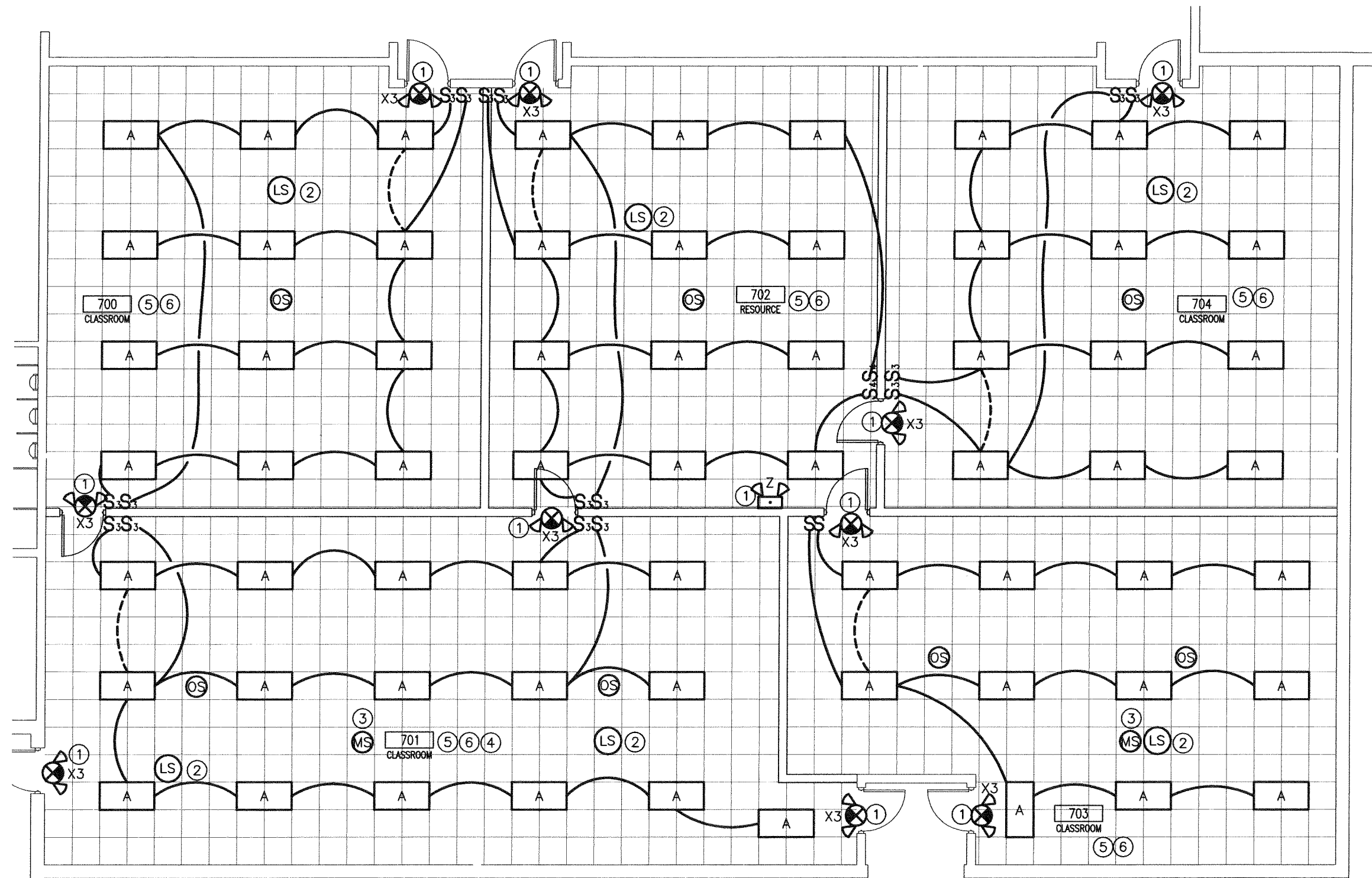
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- ④ CONTRACTOR SHALL WIRE SPEAKERS TOGETHER. THE SPEAKERS SHALL OPERATE WITH THE PUSH-TO-CALL BUTTON THAT IS ASSIGNED TO THAT ROOM.
- ⑤ PROVIDE AND INSTALL NEW LIGHT FIXTURES, OCCUPANCY SENSORS, SWITCHES, COVERPLATES, CONDUIT, WIRING AND SUPPORTS. TIE INTO THE LIGHTING CIRCUIT PREVIOUSLY SERVING THIS AREA.
- ⑥ COORDINATE BATT INSULATION WITH ARCHITECTS PLANS, NO INSULATION SHALL BE PLACED OVER LIGHT FIXTURES.

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

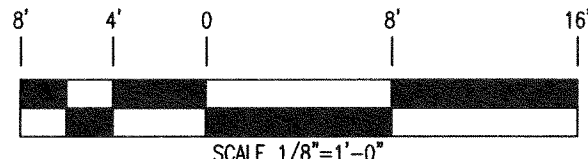
- ① WIRE EMERGENCY FIXTURE AHEAD OF SWITCH. TIE INTO LIGHTING CIRCUIT IN ROOM.
- ② REINSTALL EXISTING LOUDSPEAKER AT LOCATION AS SHOWN. REUSE EXISTING SPEAKER WIRING.
- ③ REINSTALL EXISTING MOTION SENSOR AND INSTALL WITH NEW WIRING AT LOCATION AS SHOWN.

FIRE LEGEND

2-HOUR RATED FIRE WALLS



01 AREA 700 LIGHTING RENOVATION PLAN
E1-03 1/8" = 1'-0"



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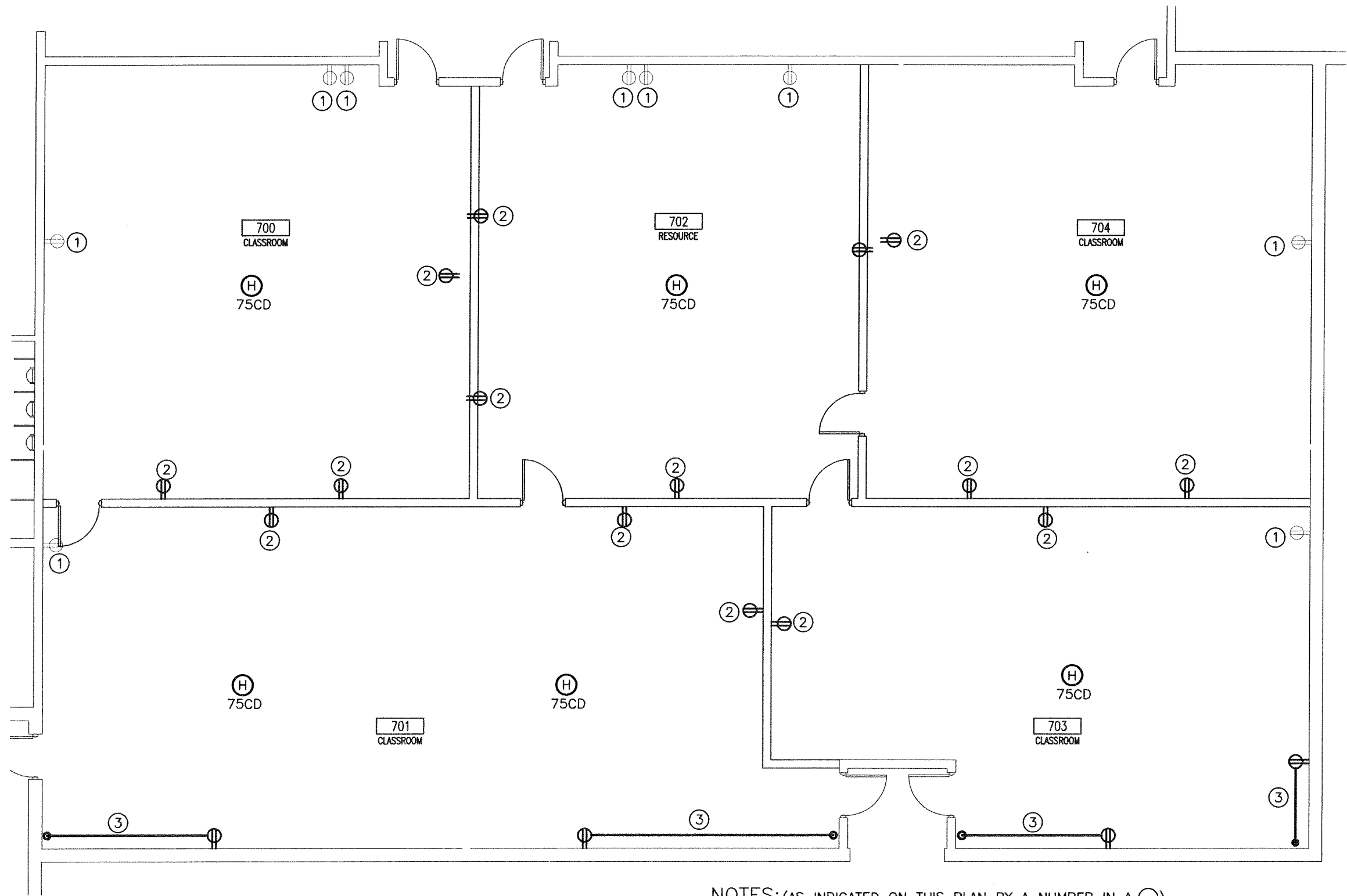
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AREA 700 LIGHTING RENOVATION PLAN

2017020 5 JULY 2017
E1-03



③ PROVIDE AND INSTALL NEW RECEPTACLE, COVERPLATE, SURFACE RACEWAY AND WIRING. TIE INTO THE EXISTING RECEPTACLE CIRCUIT THAT IS IN AREA. THE CONTRACTOR SHALL ROUTE SURFACE RACEWAY ALONG WALL AND UP TO ABOVE LAY-IN CEILING, CONTINUE WITH CONDUIT TO EXISTING RECEPTACLE AND OR PANEL FOR CIRCUIT.

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ○)

- ① PROVIDE AND INSTALL NEW RECEPTACLE AND COVERPLATE REUSE EXISTING BACKBOX AND WIRING.
- ② EXTEND EXISTING RECEPTACLE CIRCUIT IN AREA TO NEW RECEPTACLE.

FIRE LEGEND

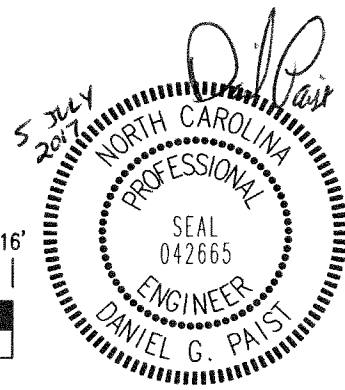
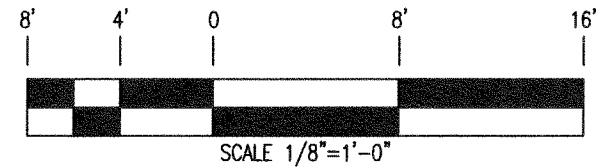
2-HOUR RATED FIRE WALLS



01
E1-04

AREA 700 POWER RENOVATION PLAN

1/8" = 1'-0"



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