SITE LAYOUT PLAN MISC. DETAILS

FIRST FLOOR DEMOLITION PLAN SECOND FLOOR DEMOLITION PLAN BASEMENT FLOOR PLAN

FIRST FLOOR PLAN SECOND FLOOR PLAN

STAIR DETAILS / DOOR SCHEDULE / DOOR & FRAME TYPES & DETAILS

FIRST FLOOR REFLECTED CEILING PLAN SECOND FLOOR REFLECTED CEILING PLAN

BASEMENT FLOOR PLAN, NOTES & DETAILS FP101 FIRST FLOOR PLAN FP102 SECOND FLOOR PLAN

FIRST FLOOR PLANS M102 SECOND FLOOR PLANS

DETAILS, NOTES, SCHEDULE & LEGEND M201 E001 **ELECTRICAL SYMBOLS AND NOTES** E002 ELECTRICAL SITE PLAN

E101 FIRST FLOOR LIGHTING PLAN E102 SECOND FLOOR LIGHTING PLAN E201 BASEMENT POWER PLAN E501 FIRST FLOOR FIRE ALARM PLAN

GENERAL NOTES

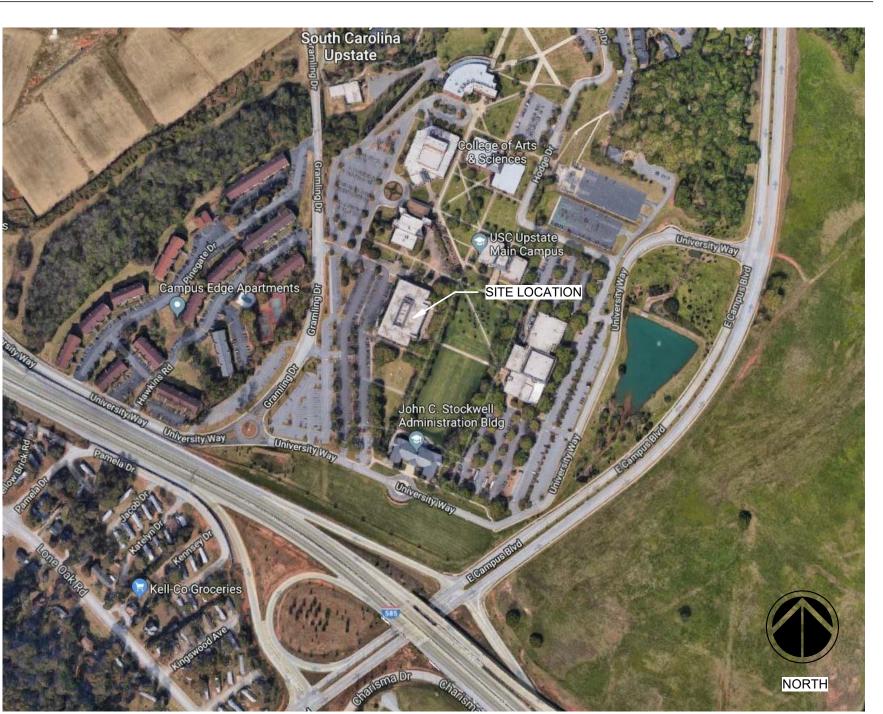
- THE TERM "WORK" AS USED IN THESE NOTES SHALL INCLUDE ALL PROVISIONS AS DRAWN OR SPECIFIED IN THESE DOCUMENTS AS WELL AS ALL
- SCOPE OF WORK: THE CONTRACTOR SHALL INCLUDE AND PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, AND PAY ALL EXPENSES INCURRED IN THE PROPER COMPLETION OF WORK UNLESS SPECIFICALLY NOTED TO BE THE WORK OF OTHERS. CONTRACTOR SHALL PERFORM ALL FIRE PROTECTION, PLUMBING, HVAC, AND ELECTRICAL.

- 6. IF A CONDITION EXISTS THAT REQUIRES OBSERVATION OR ACTION BY THE ARCHITECT, OR OTHER DESIGN PROFESSIONAL, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT.
- 7. CONTRACTOR SHALL BE FAMILIAR WITH PROVISIONS OF ALL APPLICABLE CODES AND SHALL ENSURE THE COMPLIANCE OF THE WORK WITH ALL LOCAL, STATE AND FEDERAL CODES, TRADE STANDARDS AND MANUFACTURER'S RECOMMENDATIONS. IN THE EVENT OF CONFLICT BETWEEN LOCAL. STATE AND NATIONAL CODES, THE MORE STRINGENT SHALL GOVERN. BEFORE COMMENCING WORK NOT SHOWN IN DOCUMENTS, BUT REQUIRED TO ACHIEVE FULL COMPLIANCE WITH CODES, CONTRACTOR SHALL NOTIFY ARCHITECT.
- 8. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SAFETY AND COMPLIANCE WITH REQUIREMENTS SPECIFIED IN THE OWNER/CONTRACTOR CONTRACT IS, AND SHALL BE,
- 9. CONTRACTOR SHALL PAY ALL TAXES, SECURE ALL PERMITS AND PAY ALL FEES INCURRED IN THE COMPLETION OF THE PROJECT
- 10. THE CONTRACTOR SHALL UNCONDITIONALLY WARRANTY ALL MATERIALS. AND WORKMANSHIP FURNISHED OR INSTALLED BY HIM OR HIS SUBCONTRACTORS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AND SHALL REPLACE ANY DEFECTIVE WORK WITHIN THAT PERIOD WITHOUT EXPENSE TO THE OWNER AND PAY FOR ALL DAMAGES TO OTHER PARTS OF THE BUILDING RESULTING FROM DEFECTIVE WORK OR ITS REPAIR. THE CONTRACTOR SHALL REPLACE DEFECTIVE WORK WITHIN A REASONABLE, AGREED UPON TIME FRAME, AFTER IT IS BROUGHT TO HIS ATTENTION.
- 11. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS AND RUBBISH AND AT THE COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE ALL RUBBISH, IMPLEMENTS, AND SURPLUS MATERIALS AND LEAVE THE BUILDING IN NEW AND CLEAN CONDITION.
- 12. CONTRACTOR IS TO PROVIDE TO THE OWNER A LIST OF ALL SUBCONTRACTORS USED, COMPLETE WITH ADDRESSES, PHONE NUMBERS AND COPIES OF ALL WARRANTIES AND OPERATIONS AND MAINTENANCE MANUALS.

DRAWING SYMBOL LEGEND



VICINITY MAP



ABBREVIATIONS

CT LUM LLUM LLKG LLKG CONST CO	ACOUSTICAL CEILING TILE ALUMINUM BOARD BLOCKING CHALK BOARD CONTROL JOINT CERAMIC TILE CONCRETE MASONRY UNIT CONCRETE CONSTRUCTION CONTINUOUS CARPET CLASSROOM DOUBLE DEEP SHELVES DETAIL DIMENSION ELEVATION EACH EXPANSION JOINT ELECTRICAL EQUAL EXISTING EXPANSION EXTERIOR FLOOR DRAIN FIRE EXTINGUISHER FINISH FLOOR FLOOR FLOOR FLOOR FLOOR GALVANIZED GRAB BAR GENERAL CONTRACTOR GLASS GYPSUM WALL BOARD HOLLOW METAL HORIZONTAL INSIDE DIAMETER	PL PLUMB PR PT RD REINF REQ'D SCHED SEC SHT SIM SS STL SWC TB TEMP TOIL TRTD TYP UL U.N.O. VCT VER VERT V.I.F. VW	MANUFACTURER MIRROR MASONRY OPENING METAL NOSING NOT IN CONTRACT ON CENTER OUTSIDE DIAMETER OPENING PLASTIC LAMINATE PLATE PLUMBING PAIR PAINT ROOF DRAIN REINFORCE (D) (ING) REQUIRED SCHEDULE SECTION SHEET SIMILAR STAINLESS STEEL STEEL SOLID WOOD CORE TACK BOARD TEMPERED TOILET TREATED TYPICAL UNDERWRITER'S LABORATORY UNLESS NOTED OTHERWISE VINYL COMPOSITION TILE VERIFY VERTICAL VERIFY IN FIELD VIEW WINDOW
NSUL	INSULATION	W/	WITH
NT	INTERIOR	W/O	WITH OUT
AV	LAVATORY	WD	WOOD
, . v	LI WILLOW	***	11000

PROJECT CONTACTS

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USC UPSTATE

CONTACT: FRED SCOTT

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CHRIS@SIMSGROUPUSA.COM

T: 803.765.1007

CIVIL

McCUTCHEN ENGINEERING ASSOCIATES 898 WEST SAINT JOHN ST SPARTANGBURG, SC 29301 CONTACT: DAVID McCUTCHEN, PE

T: 864.582.0585

DMCCUTCHEN@MCC-EA.COM

Jumper

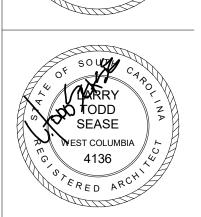
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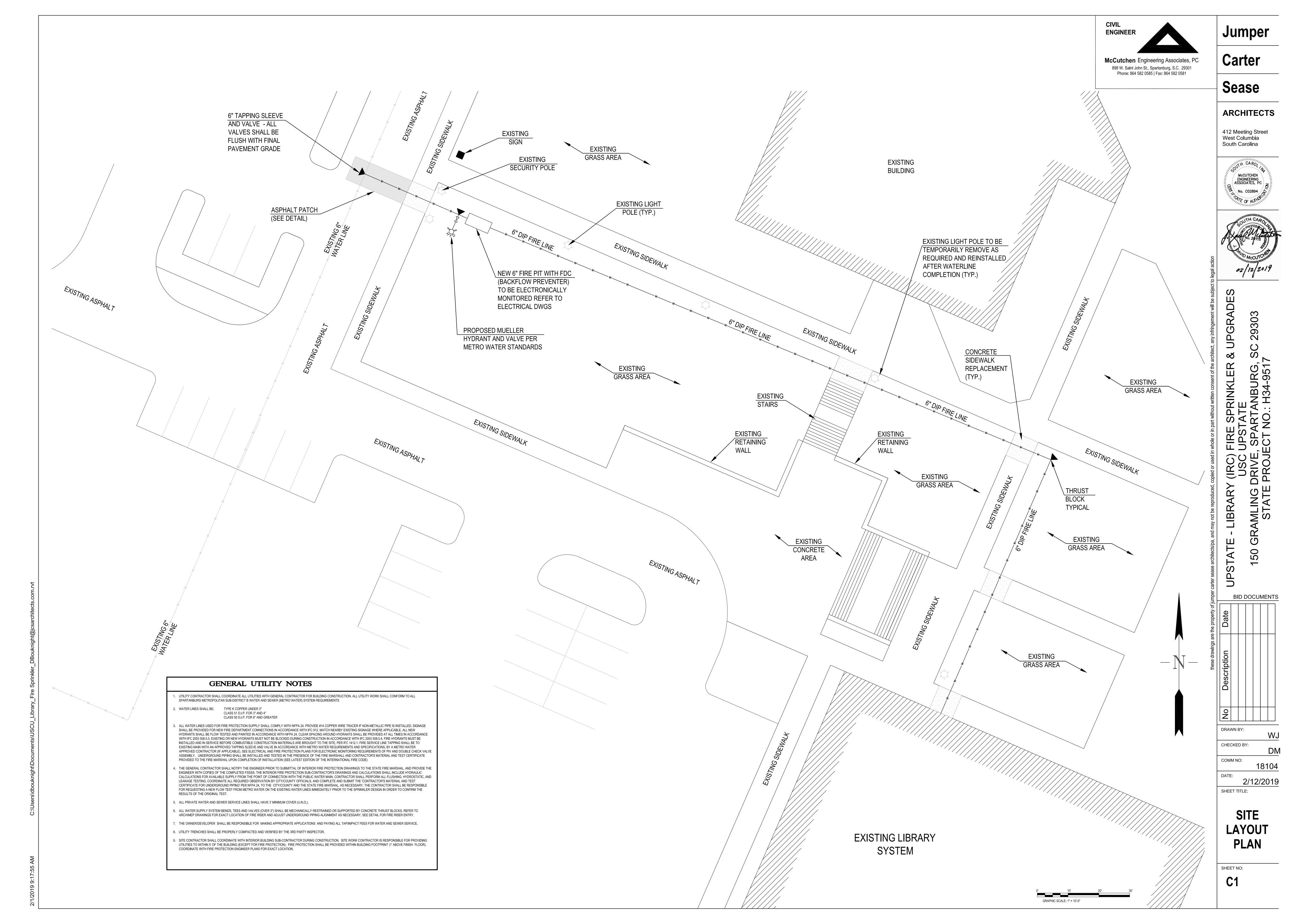


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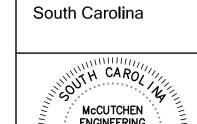


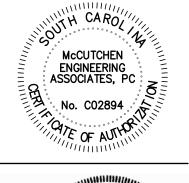
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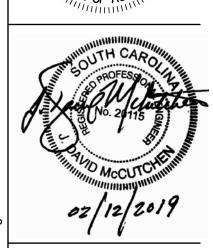
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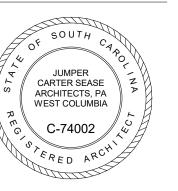
> MISC **DETAILS**

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29303

PRINKI TE TANBU D.: H34-

DEMOLITION PLAN LEGEND EXISTING WALL TO REMAIN

DEMOLITION GENERAL NOTES

= = = = EXISTING ITEM TO BE DEMOLISHED

- ALL HAZARDOUS MATERIALS SHALL BE REMOVED PRIOR TO START OF CONSTRUCTION UNDER SEPARATE CONTRACT.
- ALL MATERIALS THAT HAVE BEEN DEMOLISHED SHALL BE REMOVED IMMEDIATELY AND DISPOSED OF PROPERLY. NO DEMOLISHED MATERIALS SHALL BE STOCKPILED ON SITE.
- 3. PROTECT OWNER'S PROPERTY AND PERSONS AT ALL TIMES.
- ANY ITEMS NOT SHOWN TO BE DEMOLISHED THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.
- COORDINATE ANY SYSTEMS SHUTDOWNS WHICH MAY BE REQUIRED WITH THE OWNER.
- PRIOR TO COMMENCING WITH THE DEMOLITION, THE CONTRACTOR SHALL ASCERTAIN FROM THE OWNER WHETHER OR NOT THE OWNER WISHES TO RETAIN ANY ITEMS. ANY SUCH ITEMS SHALL BE REMOVED WITH CARE SO AS TO PREVENT UNNECESSARY DAMAGE AND TURNED OVER TO THE OWNER.
- THE CONTRACTOR SHALL CONTROL AND LIMIT DUST RESULTING FROM DEMOLITION AND PREVENT THE SPREAD OF DUST TO THE REMAINING BUILDING.
- 8. BURNING ON THE SITE WILL NOT BE PERMITTED.
- 9. EXPLOSIVES WILL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED.
- 10. WHERE DAMPERS, CONDUIT, PIPING, ETC. ARE REMOVED FROM RATED WALLS, WALLS SHALL BE PATCHED AND SEALED TO MAINTAIN FIRE AND SMOKE RATING INTEGRITY OF WALLS.
- 11. CONTRACTOR SHALL MAKE FUNCTIONAL ALL CIRCUITS
- DISRUPTED BY ANY DEMOLITION. 12. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR
- ADDITIONAL DEMOLITION REQUIREMENTS. 13. REMOVE ALL WIRING, CONDUIT, WIRING SYSTEMS AND EQUIPMENT MADE OBSOLETE BY DEMOLITION. ANY EXISTING CONDUIT SYSTEM THAT CAN BE REUSED IN PLACE IN THE NEW

WORK MAY BE REUSED PROVIDED IT IS IN A CONDITION

- ACCEPTABLE TO THE ARCHITECT. 14. PROVIDE NEW PANELBOARD DIRECTORY CARD IN EXISTING PANELBOARDS AS REQUIRED AFTER DEMOLITION/REWORKING OF EXISTING CIRCUITS.
- 15. ALL LIGHTING FIXTURES WHICH ARE TO BE RELOCATED SHALL BE CLEANED AND RE-LAMPED. FLOURESCENT LIGHTING SCHEDULED TO BE REMOVED SHALL BE RECYCLED OR DISPOSED OF IN A SUBTITLE D/MSW LANDFILL IN ACCORDANCE WITH THE SC POLLUTION CONTROL ACT AND FEDERAL REGULATIONS.
- 16. DEMOLITION INCLUDES REMOVAL OF ALL ITEMS NECESSARY TO FACILITATE THE NEW CONSTRUCTION, WHETHER SPECIFICALLY INDICATED OR NOT, UNLESS NOTED OTHERWISE.
- 17. ALL UTILITIES DEMOLISHED SHALL BE COMPLETELY REMOVED AND/OR CAPPED. ALL FINISHES TO REMAIN THAT ARE DISTURBED SHALL BE REPAIRED TO MATCH EXISTING.

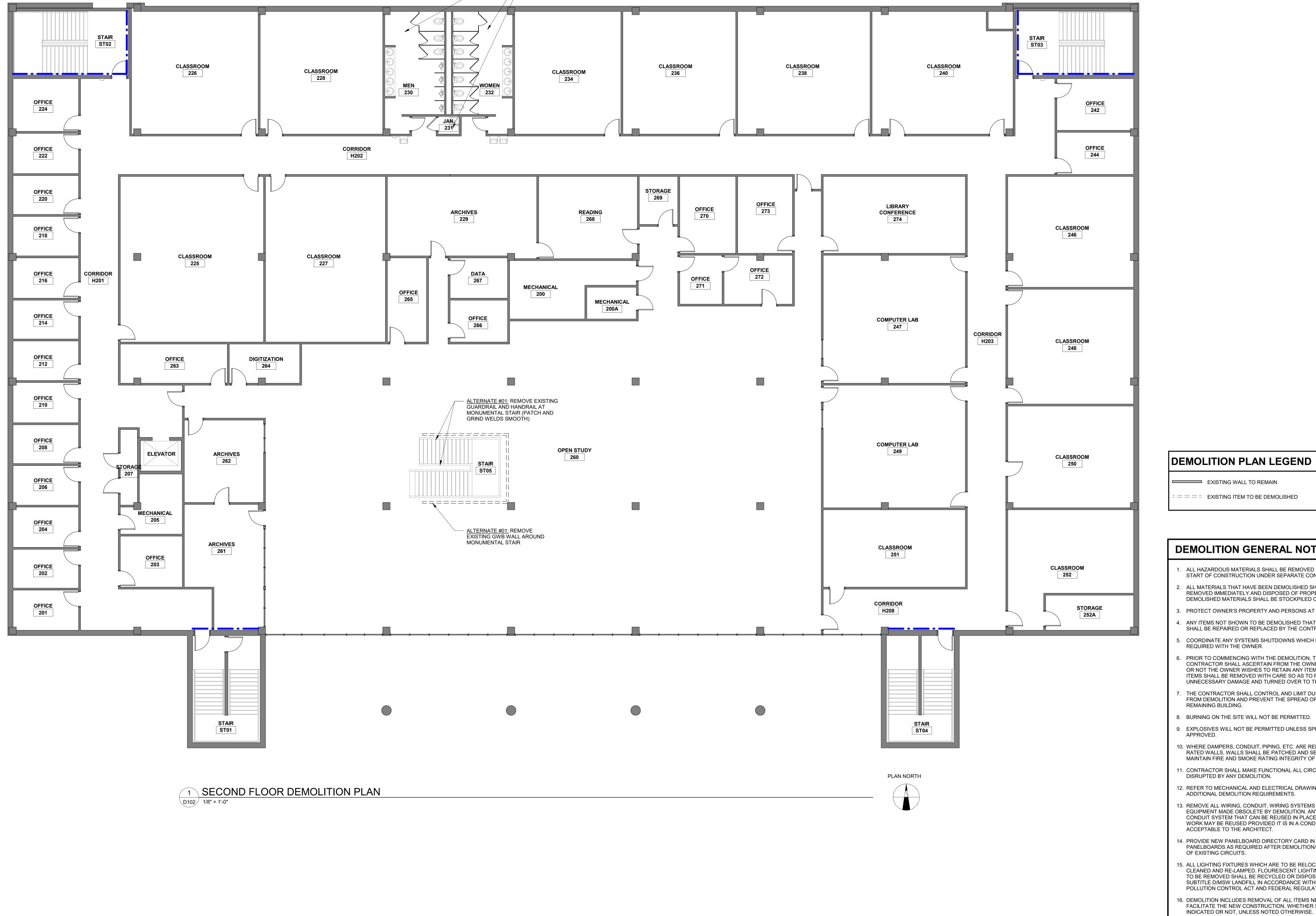
BID DOCUMENTS

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18104 DATE: 2/12/2019 SHEET TITLE:

FIRST FLOOR DEMOLITION PLAN



- REMOVE EXISTING GWB CEILINGS IN TOILETS/JANITOR

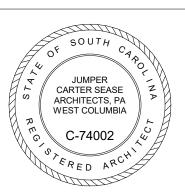
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29303) FIRE SPRINKLER (C) UPSTATE E, SPARTANBURG, JECT NO.: H34-9517 r (IRC) | USC DRIVE, PROJE 50

DEMOLITION GENERAL NOTES

- . ALL HAZARDOUS MATERIALS SHALL BE REMOVED PRIOR TO START OF CONSTRUCTION UNDER SEPARATE CONTRACT.
- ALL MATERIALS THAT HAVE BEEN DEMOLISHED SHALL BE REMOVED IMMEDIATELY AND DISPOSED OF PROPERLY. NO DEMOLISHED MATERIALS SHALL BE STOCKPILED ON SITE.
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- 17. ALL UTILITIES DEMOLISHED SHALL BE COMPLETELY REMOVED AND/OR CAPPED. ALL FINISHES TO REMAIN THAT ARE DISTURBED SHALL BE REPAIRED TO MATCH EXISTING.

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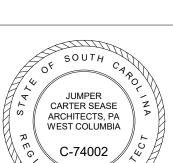
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SECOND **FLOOR DEMOLITION** PLAN

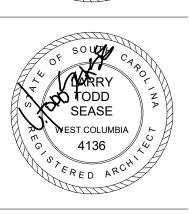
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29303 PRINK

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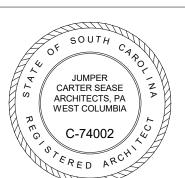
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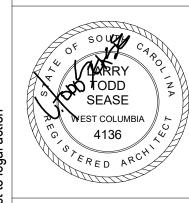
BASEMENT FLOOR PLAN

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BID DOCUMENTS

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SHEET TITLE:

2/12/2019 FIRST FLOOR PLAN

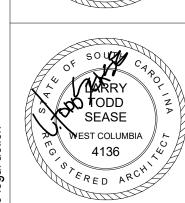
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29303 UP) FIRE SPRINKLER C) UPSTATE E, SPARTANBURG, JECT NO.: H34-9517 LER

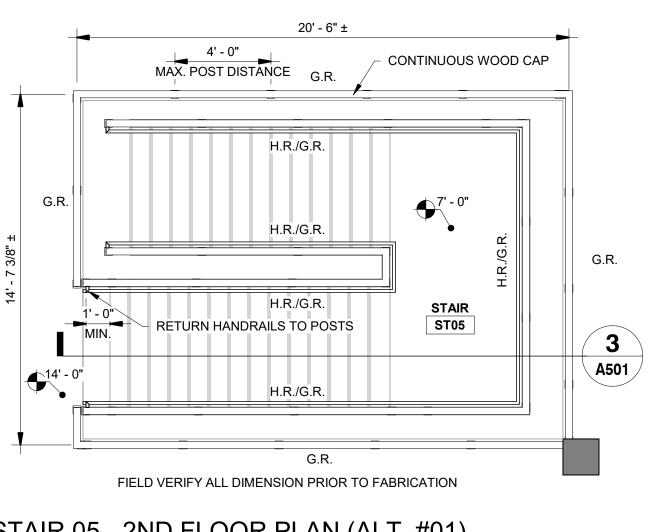
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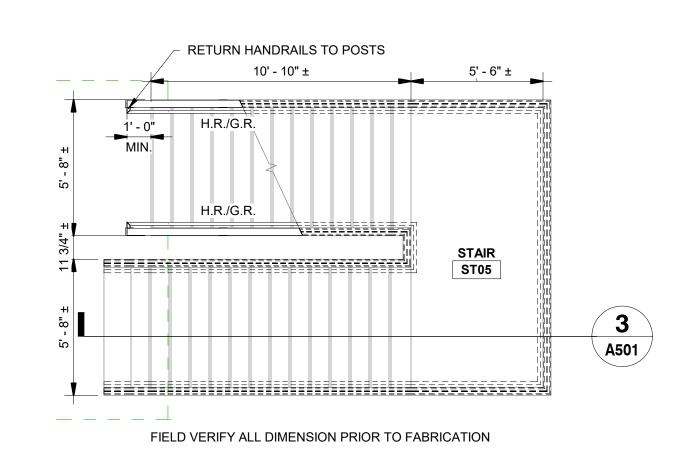
SECOND FLOOR PLAN



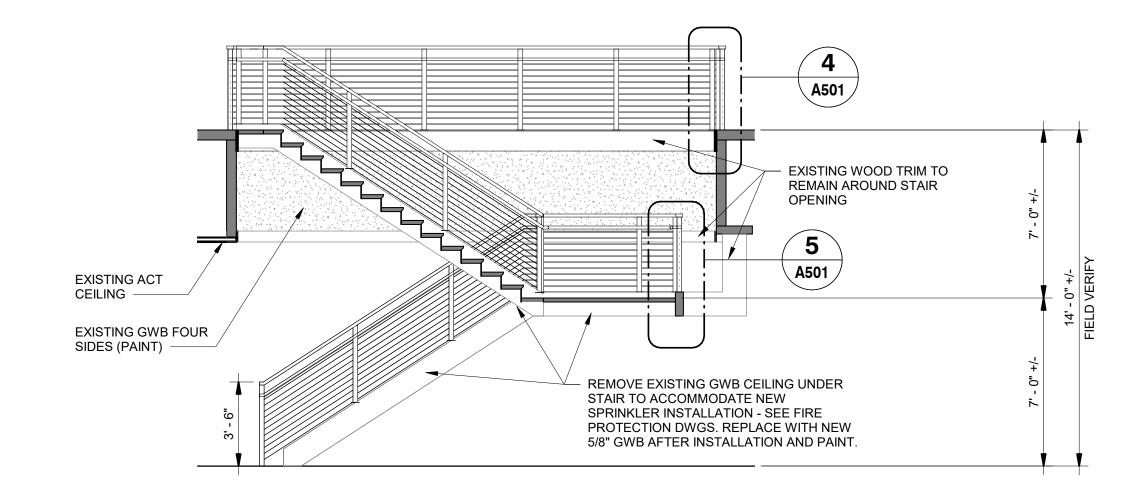


2 STAIR 05 - 2ND FLOOR PLAN (ALT. #01)

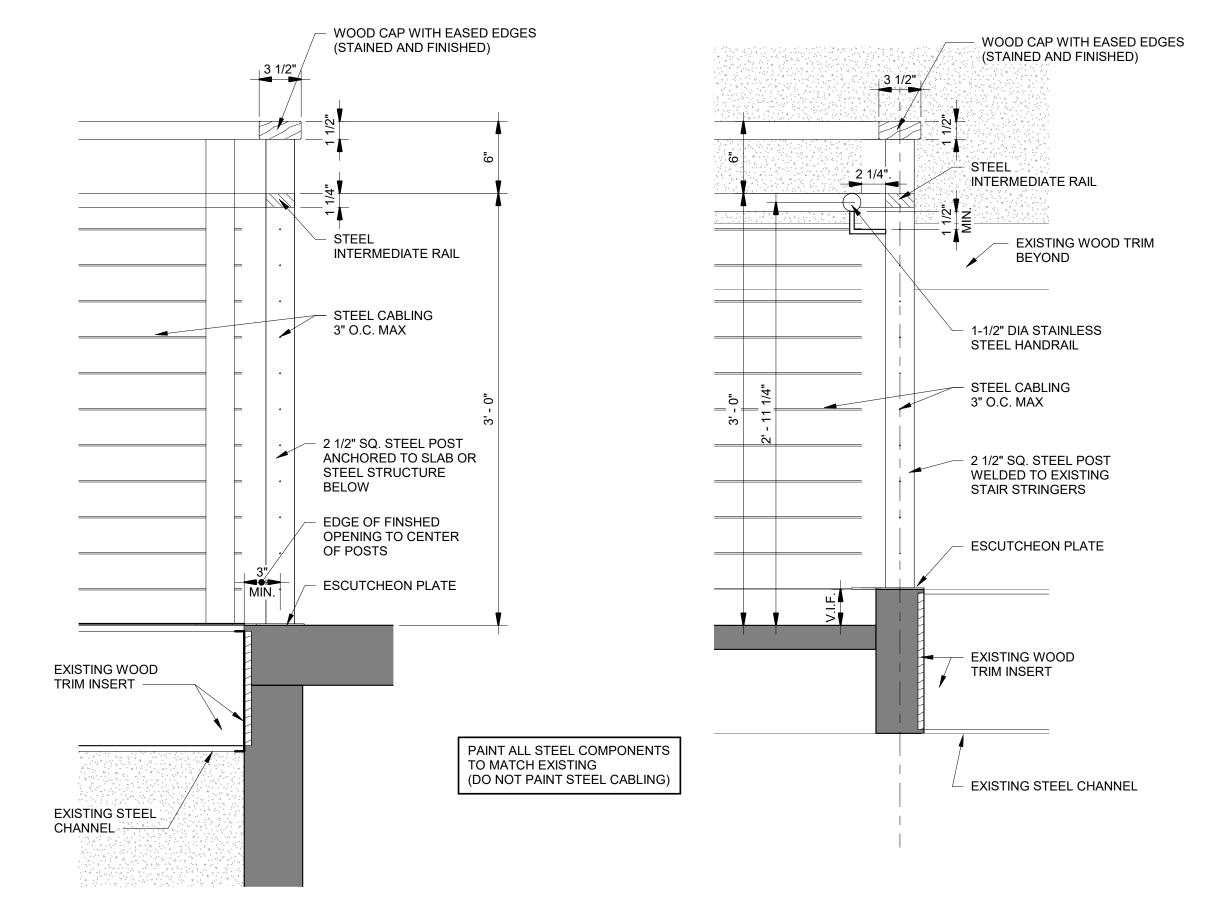
A501 1/4" = 1'-0"



1 STAIR 05 - 1ST FLOOR PLAN (ALT. #01)

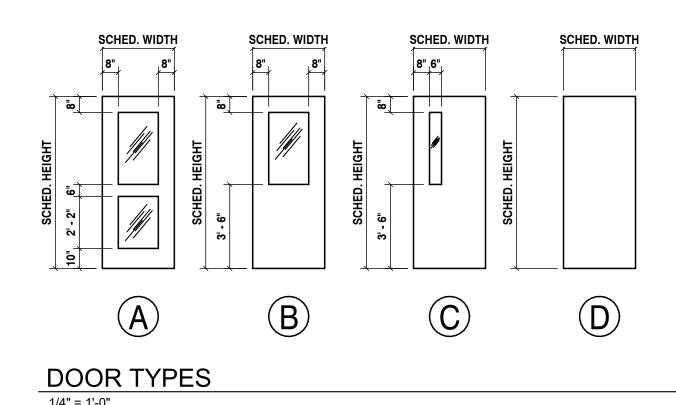


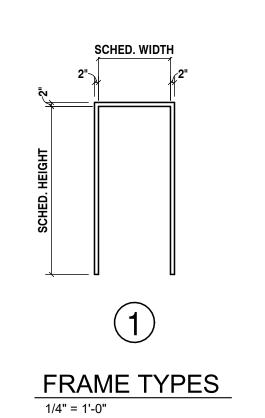
3 STAIR SECTION (ALT. #01)
A501 1/4" = 1'-0"

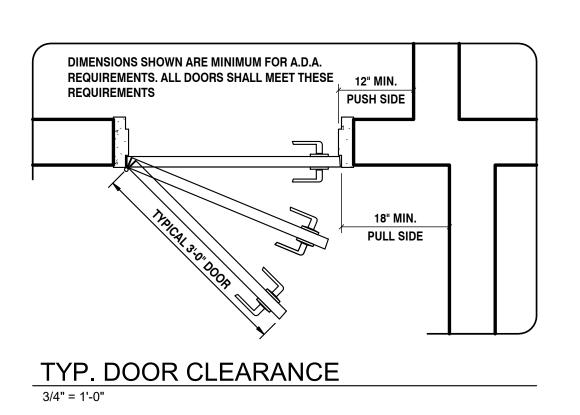


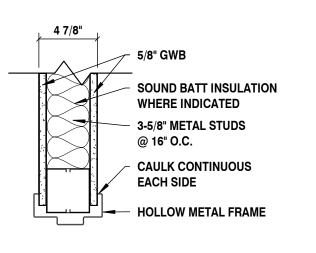
4 GUARDRAIL DETAIL (ALT. #01)
1 1/2" = 1'-0"











H-1	
լ 4 7/8"	
	5/8" GWB
	SOUND BATT INSULATION WHERE INDICATED
	3-5/8" METAL STUDS @ 16" O.C.
	CAULK CONTINUOUS EACH SIDE
	HOLLOW METAL FRAME WITH METAL JAMB ANCHORS

HEAD & JAMB DETAILS

	DOOR SCHEDULE												
DOOR	DOOR	DOOR	DOOR	DOOR	DOOR	FRAME		FRAME					
#	TYPE	WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL	RATING	REMARKS
011A	D	3'-0"	7' - 0"	НМ	PT	1	НМ	PT	H-1	J-1	-		
120	С	3'-0"	7' - 0"	SWC	ST	1	НМ	PT	H-1	J-1	-		

DOOR SCHEDULE NOTES
HM HOLLOW METAL PT PAINT (COLOR TO BE SELECTED BY ARCHITECT) ST STAIN (MATCH EXISTING DOORS) SWC SOLID WOOD CORE

SHEET NO:

DRAWN BY:

CHECKED BY:

18104

2/12/2019

TYPES &

DETAILS

STAIR DETAILS /

DOOR SCHED. /

DOOR & FRAME

COMM NO:

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> JUMPER CARTER SEASE ARCHITECTS, PA WEST COLUMBIA

> > C-74002

4136

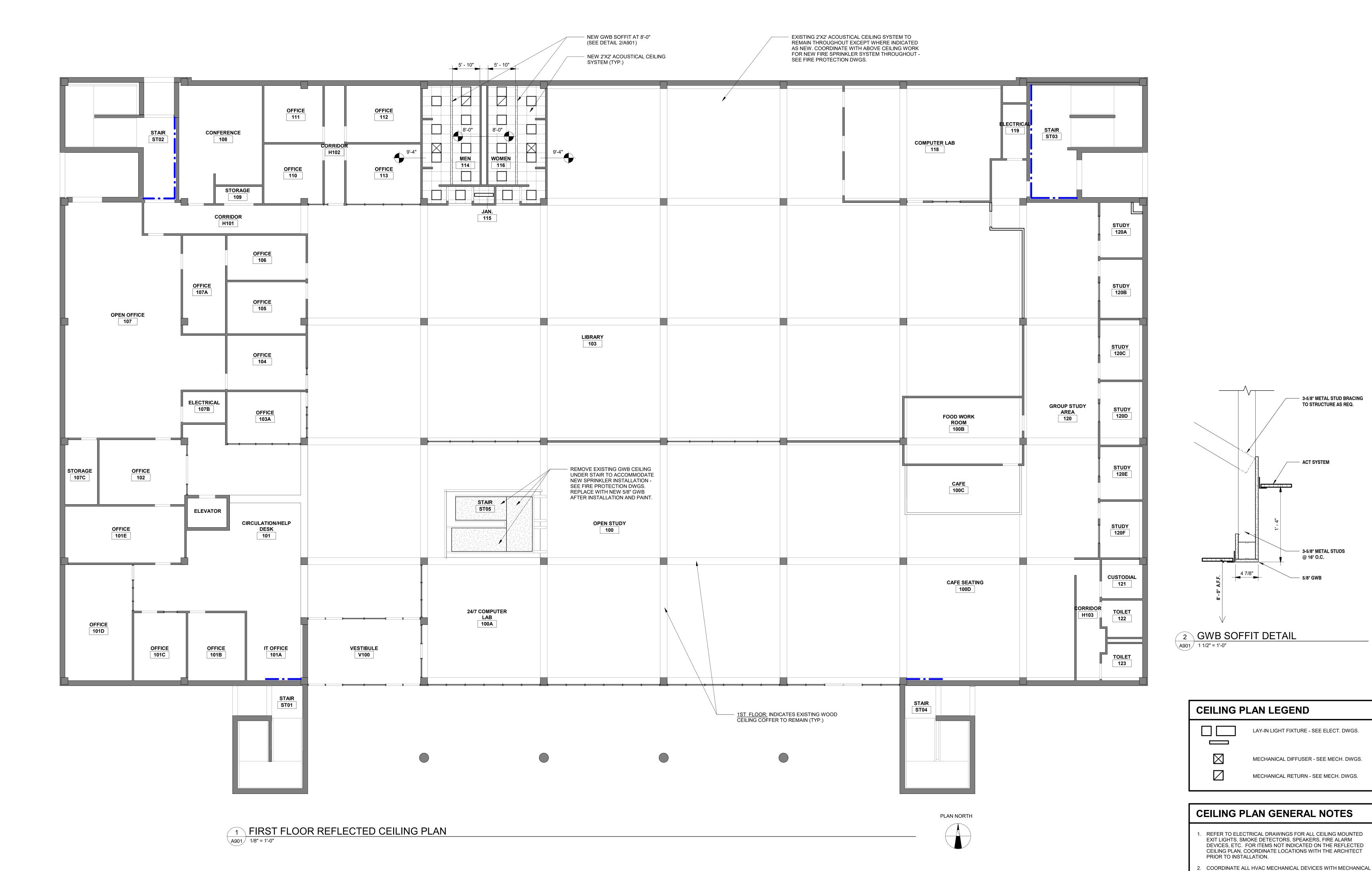
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BID DOCUMENTS

PRINK

A501

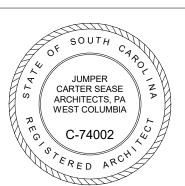


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- 3-5/8" METAL STUD BRACING

TO STRUCTURE AS REQ.

ACT SYSTEM

- 3-5/8" METAL STUDS

LAY-IN LIGHT FIXTURE - SEE ELECT. DWGS.

MECHANICAL DIFFUSER - SEE MECH. DWGS.

MECHANICAL RETURN - SEE MECH. DWGS.

3. IF AS-BUILT CONDITIONS DEMAND THAT A CEILING BOARD LARGER

CUT FROM A 2'X4' BOARD. A DOUBLE WALL ANGLE SHALL NOT BE

4. CEILING SUSPENSION SYSTEM TO MEET SEISMIC REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE CURRENT EDITION.

5. LOCATE ALL RECESSED FIXTURES AT THE CENTERLINE OF TILE UNLESS NOTED OTHERWISE. INSTALL ALL ELECTRICAL SYSTEM COMPONENTS WITHOUT INTERFERING WITH DUCTS, PIPES, BEAMS, ETC. LOCATE LIGHT FIXTURES SYMMETRICALLY, AS DIMENSIONED, OR AS INDICATED ON THE REFLECTED CEILING PLANS. IN THE EVENT OF CONFLICT, THE ARCHITECT WILL DECIDE WHICH ITEM TO RELOCATE WITHOUT REGARD TO WHICH WAS INSTALLED FIRST. SEE ELECTRICAL DWGS. FOR FIXTURE TYPES.

THAN 2'-0" IN ANY DIMENSION BE USED IN THE PERIMETER BOARDS OF A TYPICAL 2'X2' GRID, THEN THAT BOARD SHALL BE

USED IN THE CEILING GRID SYSTEM.

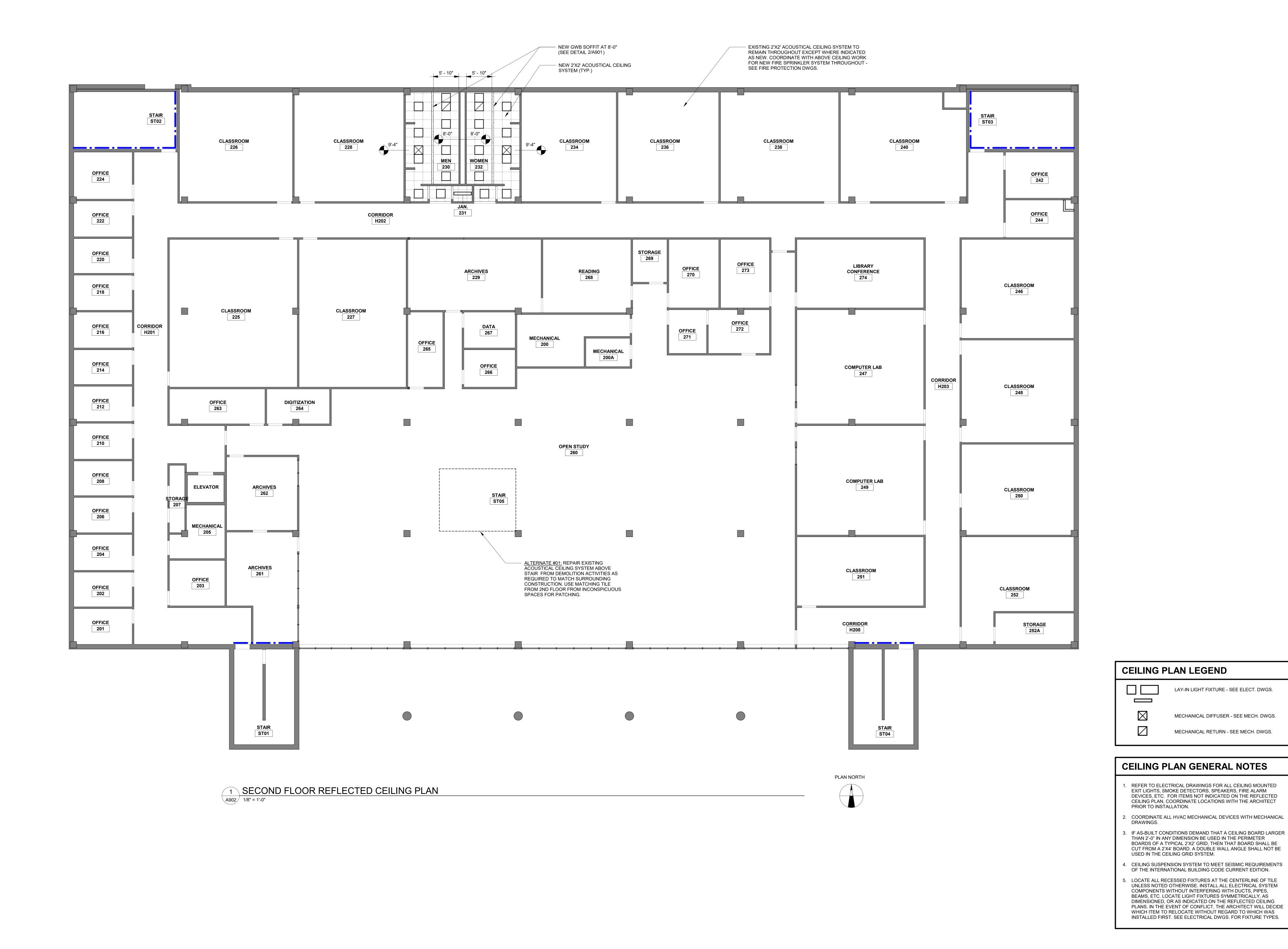
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BID DOCUMENTS

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2/12/2019 SHEET TITLE:

FIRST FLOOR **CEILING PLAN**



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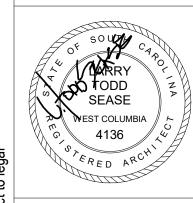
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29303) FIRE SPRINKLER C) UPSTATE E, SPARTANBURG, JECT NO.: H34-9517

BID DOCUMENTS

DRAWN BY:

CHECKED BY: COMM NO:

18104 2/12/2019

SHEET TITLE: SECOND

CEILING PLAN

- 1) RISER ROOM WILL HAVE A CEILING OVER IT TO ALLOW FOR RETURN AIR ABOVE THE SPACE. SEISMIC BRACING SHALL EXTEND UP TO BUILDING STRUCTURE FOR BRACING WHILE AVOIDING EXISTING DUCTWORK.
- (2) AREA WITH NO CEILING. UPRIGHT HEADS REQUIRED.
- 3 AREA WITH EXISTING HARD CEILINGS. PROVIDE COVERAGE WITH SIDEWALL HEAD WITH PIPING IN ADJACENT SPACE.
- (4) EXPOSED PIPING IN STAIRWELL WILL BE PERMITTED.

GENERAL NOTES

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SWYGERT AND ASSOCIATES, LTD.

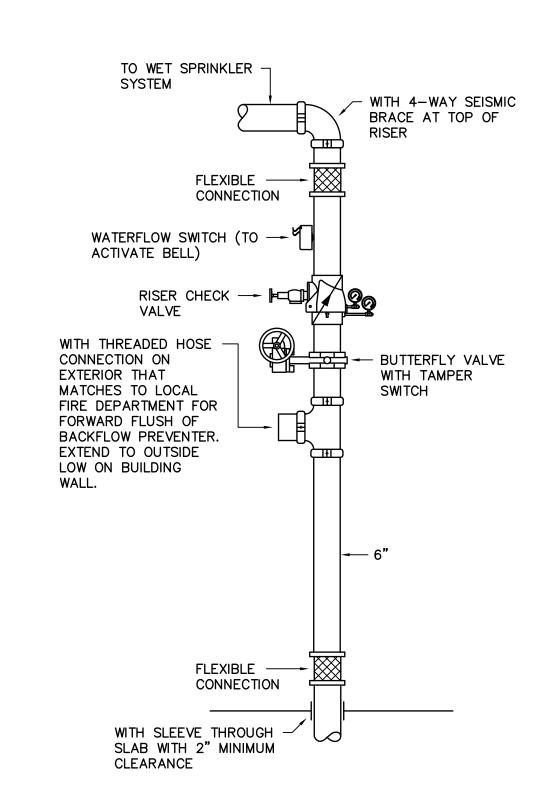
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West Columbia South Carolina

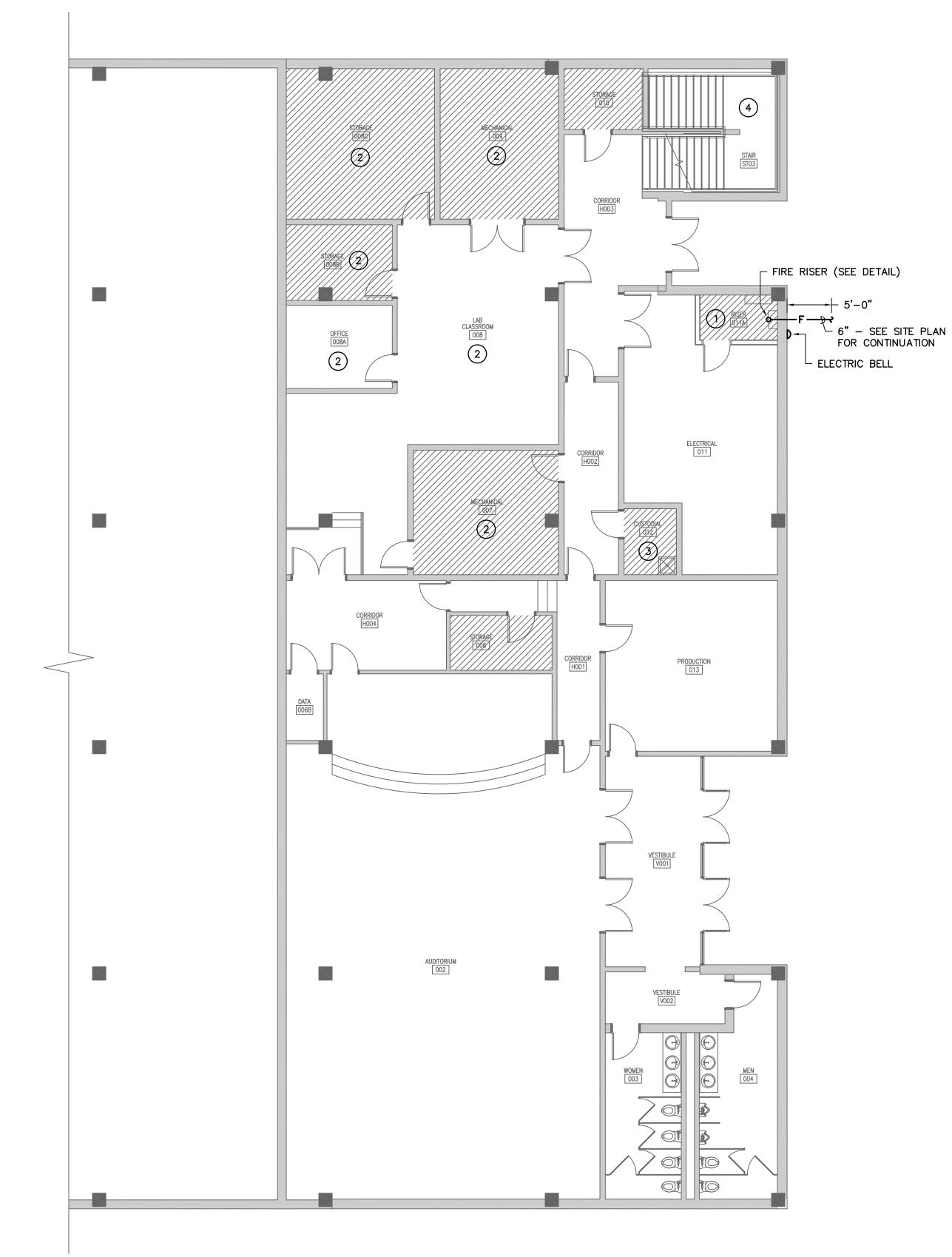
- 1. SUBMIT DRAWINGS INDICATING EXACT LOCATION OF ALL SPRINKLER HEADS FOR ARCHITECTS REVIEW AND BRING ALL FIELD CONFLICTS AND REQUIRED ADJUSTMENTS TO THE ARCHITECTS ATTENTION FOR VERIFICATION OF FINAL LOCATION OF ALL SPRINKLER HEADS.
- 2. SPRINKLER DRAWINGS PROVIDED ARE TO ASSIST THE CONTRACTOR. SUCCESSFUL CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF A COMPLETE SYSTEM PER THESE PLANS AND SPECIFICATIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES. CONTRACTOR SHALL BE RESPONSIBLE FOR
- SUBMISSION TO THE OFFICE OF THE STATE FIRE MARSHAL. 3. THE DESIGN TEAM, TO INSURE COMPATIBILITY WITH THE BUILDING DESIGN INTENT, WILL CAREFULLY REVIEW SPRINKLER PLANS. CORRECTIONS WILL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 4. SYSTEM DRAINS SHALL BE INSTALLED AS REQUIRED PER NFPA. DRAINS SHALL BE EXTENDED OUTSIDE THE BUILDING. DRAIN LOCATIONS SHALL BE APPROVED BY THE A/E TEAM AND SHALL BE INDICATED ON THE SHOP DRAWINGS.
- 5. PROVIDE NECESSARY GUARDS OVER EQUIPMENT IN ELECTRICAL ROOMS WHERE REQUIRED BY NFPA 13.
- WHERE PIPING IS TO BE RUN EXPOSED, SUCH AS STAIRWELLS, CARE SHALL BE TAKEN TO MINIMIZE THE ABILITY OF BUILDING OCCUPANTS TO TOUCH, HANG FROM, OR OTHERWISE VANDALIZE FIRE PROTECTION SYSTEM.
- 7. SPRINKLER HEADS SHALL BE LOCATED A MINIMUM OF 6" AWAY FROM CEILING GRID IN ALL ACOUSTICAL CEILING TILES.
- 8. SPRINKLER PIPING SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS WITH LATERAL SWAY BRACING, LONGITUDINAL SWAY BRACING, AND FOUR-WAY BRACING AS REQUIRED BY NFPA AND THE INTERNATIONAL BUILDING CODES.
- 9. ALL PIPING 2-1/2" AND LARGER SHALL BE SCHEDULE 10 STEEL PIPING AND ALL PIPING SMALLER THAN 2-1/2" SHALL BE SCHEDULE 40 STEEL PIPING.
- 10. EXISTING ACOUSTICAL CEILING TILES TO BE REMOVED AND REPLACED BY THIS CONTRACTOR AS REQUIRED FOR NEW FIRE SPRINKLER SYSTEM. CONTRACTOR
- SHALL REPLACE ANY DAMAGED TILES WITH NEW TILES OF SIMILAR TYPE. 11. PHASING OF INSTALLATION WILL BE REQUIRED. CONTRACTOR SHALL COORDINATE WITH OWNER AND USE FOR AN MUTUALLY AGREED UPON SCHEDULE.
- 12. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE WITH FIRE ALARM INSTALLER FOR LOCATIONS OF ALL VALVES THAT ARE TO BE MONITORED.

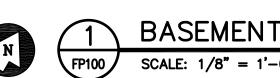


NEW RISER ROOM LOCATION NO SCALE



RISER DETAIL NO SCALE





NOTE: BUILDING SHALL BE FULLY SPRINKLERED PER THE REQUIREMENTS OF NFPA 13

- 2013 FOR A WET PIPE SPRINKLER

WATER FLOW INFORMATION

LEGEND

- ORDINARY HAZARD - GROUP I

SYSTEM.

STATIC: 70 PSI RESIDUAL: 48 PSI FLOW: 1268 GPM DATE: 12/04/2018

INFORMATION PROVIDED BY METROPOLITAN WATER & SEWER DISTRICT (864) 503-0822.

- LIGHT HAZARD



DBA Swygert & Assoc., Ltd.
Post Office Box 11686
Columbia, S.C. 29211

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DATE:

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COMM NO:

CHECKED BY:

FLOOR PLAN, NOTES, AND DETAIL

2/12/2019

BASEMENT

BID DOCUMENTS

Swygert & Associates CONSULTING ENGINEERS

NOTES TO SHEET 1 AREA WITH EXISTING HARD CEILINGS. FIRE SPRINKLER CONTRACTOR SHALL REMOVE AS REQUIRED FOR INSTALLATION OF FIRE SPRINKLER SYSTEM. NEW CEILING INSTALLED BY OTHERS. 2 EXPOSED PIPING IN STAIRWELL WILL BE PERMITTED. NOTE:
BUILDING SHALL BE FULLY SPRINKLERED
PER THE REQUIREMENTS OF NFPA 13 (3) AREA WITH EXISTING HARD CEILINGS BELOW STAIRS. FIRE SPRINKLER CONTRACTOR SHALL REMOVE AS REQUIRED FOR INSTALLATION OF FIRE SPRINKLER SYSTEM. NEW CEILING INSTALLED BY OTHERS. - 2013 FOR A WET PIPE SPRINKLER SYSTEM. LEGEND - LIGHT HAZARD - ORDINARY HAZARD - GROUP I - ORDINARY HAZARD - GROUP II STAIR ST03 FIRE SPRINKLER SYSTEM TO UPPER FLOORS IN THIS LOCATION GROUP STUDY AREA 120 SPRINKLER PIPING FOR BENEATH STAIRS TO SLOPE DOWN WITH STAIRS

Jumper

Carter

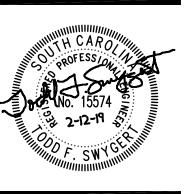
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2/12/2019

FIRST FLOOR PLAN

Swygert & Associates CONSULTING ENGINEERS DBA Swygert & Assoc., Ltd.
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mail@swygert-associates.com

NOTES TO SHEET 1 AREA WITH EXISTING HARD CEILINGS. FIRE SPRINKLER CONTRACTOR SHALL REMOVE AS REQUIRED FOR INSTALLATION OF FIRE SPRINKLER SYSTEM. NEW CEILING INSTALLED BY OTHERS. 2 EXPOSED PIPING IN STAIRWELL WILL BE PERMITTED. NOTE:
BUILDING SHALL BE FULLY SPRINKLERED
PER THE REQUIREMENTS OF NFPA 13
— 2013 FOR A WET PIPE SPRINKLER
SYSTEM. LEGEND - LIGHT HAZARD - ORDINARY HAZARD - GROUP I CLASSROOM 226 CLASSROOM 236 CLASSROOM 238 CLASSROOM 240 FIRE SPRINKLER SYSTEM
RISES TO UPPER FLOORS
IN THIS LOCATION CORRIDOR H202 CLASSROOM 246 OFFICE 216 OFFICE 203

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29303

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2/12/2019

SHEET TITLE:
SECOND FLOOR
PLAN

Swygert & Associates
CONSULTING ENGINEERS

DEMOLITION NOTES

1 REMOVE EXISTING CEILING GRILLE AND DUCTWORK AS SHOWN.

 $race{2}$ REMOVE EXISTING CEILING GRILLE AND VERIFY SERVICE. CAP EXISTING DUCT AT MAIN TRUNK AS REQUIRED.

Jumper

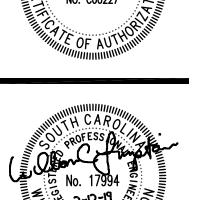
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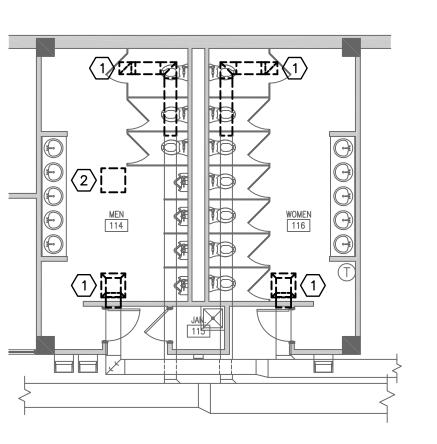
DATE: 2/12/2019 SHEET TITLE:

FIRST FLOOR PLANS

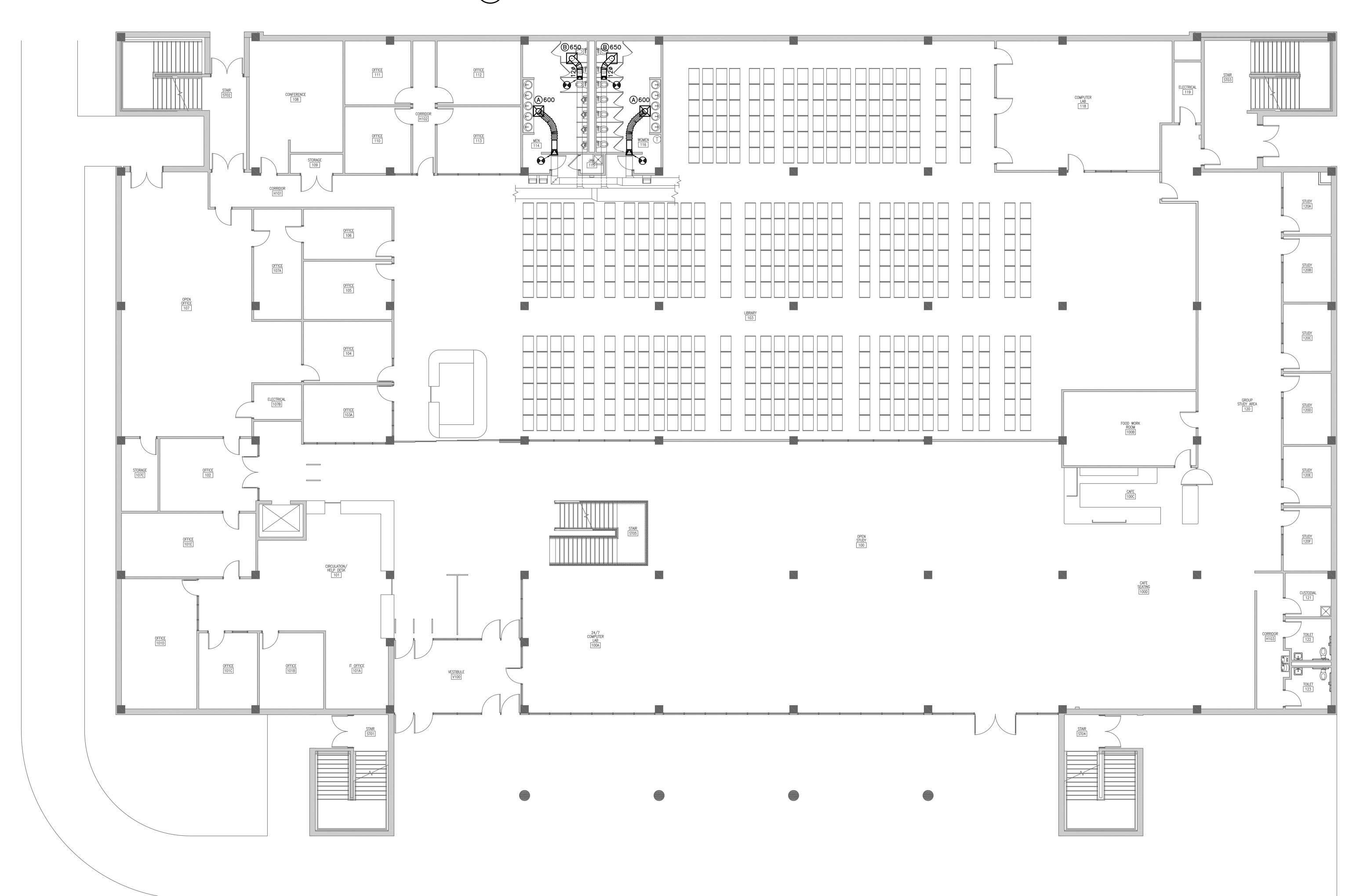
Swygert & Associates CONSULTING ENGINEERS

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2 FIRST FLOOR DEMOLITION PLAN M101 SCALE: 1/8" = 1'-0"



DEMOLITION NOTES

1 REMOVE EXISTING CEILING GRILLE AND DUCTWORK AS SHOWN.

OFFICE 244

CLASSROOM 246

CLASSROOM 248

CLASSROOM 250

STORAGE 252A

Jumper

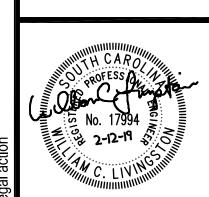
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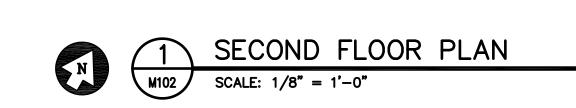


BID DOCUMENTS

DATE: 2/12/2019

SHEET TITLE:
SECOND FLOOR
PLANS

M102



SECOND FLOOR DEMOLITION PLAN

CLASSROOM 236

CLASSROOM 234

MECHANICAL 200A

CLASSROOM 238

CLASSROOM 240

CORRIDOR H203

M102 SCALE: 1/8" = 1'-0"

CORRIDOR H202

CLASSROOM 226

MECHANICAL 205

OFFICE 203

OFFICE 224

OFFICE 220

OFFICE 218

OFFICE 216

OFFICE 210

OFFICE 204

OFFICE 201

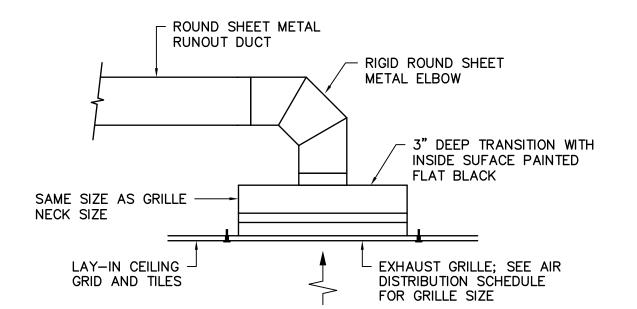
	AIR DISTRIBUTION SCHEDULE									
TAG	DESCRIPTION	MANUFACTURER	MODEL	FRAME	CFM	NECK SIZE	FACE SIZE	MAX NC	REMARKS	
A	UNI-FLOW SUPPLY	PRICE	ASPD	LAY-IN	600	12 " ø	24"x24"	30	1, 2	
B	PERFORATED EXHAUST	PRICE	APDDR	LAY-IN	0-1000	22"x22"	24"x24"	30	1, 2	

1. PROVIDE WITH STANDARD WHITE FINISH. 2. PROVIDE ALUMINUM OR ALUMINIZED STEEL CONSTRUCTION.

LEGEND						
SYMBOL	DESCRIPTION					
(A)100	TYPE "A" DIFFUSER, 100 CFM					
Ť	THERMOSTAT					
\boxtimes	RECTANGULAR SUPPLY DUCTWORK					
N	RETURN, EXHAUST, FRESH AIR DUCTWORK					
48x24	48"x24" RECTANGULAR DUCT					
•	CONNECTION POINT OF NEW TO EXISTING					

SPIN-IN FITTING WITH 45° EXTRACTOR AND MANUAL BALANCING DAMPER WITH - L.P. SUPPLY STANDOFF LOCKING QUADRANT (INSULATED) TRUNK DUCT - ROUND SHEET METAL (INSULATED) RUNOUT (INSULATED) - FLEXIBLE DUCT RUNOUT (SAME SIZE AS DIFFUSER NECK) 8'-O" LONG MAX. RIGID ROUND SHEET METAL ELBOW (INSULATED) INSULATE BACKPAN OF ALL DIFFUSERS AND GRILLES DIFFUSER (SEE SCHEDULE — FOR MODEL AND SIZE) CEILING DIFFUSER DETAIL

NO SCALE



EXHAUST GRILLE DETAIL NO SCALE

GENERAL NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL MECHANICAL CODE, 2015 INTERNATIONAL FUEL GAS CODE, 2009 INTERNATIONAL ENERGY CONSERVATION CODE, AND 2005 SMACNA HVAC DUCT CONSTRUCTION STANDARD. ALL LOCAL CODES OR REQUIREMENTS STILL APPLY.
- 2. VISIT SITE PRIOR TO BIDDING. THIS CONTRACTOR SHALL DETERMINE DIFFICULTY OF INSTALLATION AND REFLECT THIS IN HIS BIDDING.
- 3. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS, AIR DISTRIBUTION,
- 4. DO NOT SCALE DRAWINGS. THIS CONTRACTOR SHALL VERIFY ALL EXISTING ITEMS AND LOCATIONS IN THE FIELD.
- 5. ALL DUCTWORK LOCATIONS SHALL BE COORDINATED WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE. 6. EXISTING PIPE, DUCTWORK, CONDUIT, ETC. THAT INTERFERES WITH THE ROUTING
- OF NEW SYSTEMS SHALL BE RELOCATED. THIS CONTRACTOR SHALL INCLUDE THE COST OF SUCH IN HIS BID UNLESS NOTED OTHERWISE.
- 7. ALL DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH PARTITIONS. 8. ALL MECHANICAL ITEMS EXTENDING THROUGH WALLS SHALL BE FLASHED.
- 9. SPACE ABOVE CEILING TO BE USED AS RETURN AIR PLENUM WHERE DUCT IS NOT INDICATED ABOVE RETURN AIR GRILLES.
- 10. ALL OPEN END DUCTS SHALL HAVE 1/4-INCH MESH GALVANIZED SCREEN IN REMOVABLE FRAME.
- 11. WHERE 2'X2' LAY IN GRILLES ARE SPECIFIED IN HARD CEILINGS, A PLASTER FRAME SHALL BE PROVIDED SO THE GRILLE CAN LAY IN THE CEILING.
- 12. PROVIDE FOR ACCESS TO ALL EQUIPMENT REQUIRING CLEANING OR ADJUSTMENT PER MANUFACTURER'S INSTRUCTIONS. PROVIDE FULL SPACE FOR COIL REMOVAL AND REPLACEMENT FOR ALL HOT WATER AND CHILLED WATER AIR HANDLING
- 13. THIS CONTRACTOR SHALL PROVIDE ALL ITEMS OF MISCELLANEOUS STEEL AS REQUIRED FOR INSTALLATION OF ALL MECHANICAL ITEMS.
- 14. REMOVAL AND REPLACEMENT OF CEILING, AS REQUIRED FOR INSTALLATION OF NEW WORK, SHALL BE DONE BY GENERAL CONTRACTOR.
- 15. CORRECT SETTINGS ON ALL BALANCING FITTINGS SHALL BE PERMANENTLY MARKED. PROVIDE ORANGE FLAGGING RIBBON ON EACH DAMPER HANDLE FOR EASY IDENTIFICATION.
- 16. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY DISMANTLING OF EQUIPMENT TO BE REMOVED.
- 17. ITEMS REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.
- 18. THIS CONTRACTOR SHALL PATCH ALL WALLS AND FINISHES TO MATCH EXISTING WHERE ALL ITEMS OR EQUIPMENT ARE REMOVED.

SPECIFICATIONS

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL MECHANICAL CODE, 2009 INTERNATIONAL ENERGY CONSERVATION CODE, AND 2005 SMACNA HVAC DUCT CONSTRUCTION STANDARD. ALL LOCAL CODES OR REQUIREMENTS STILL APPLY.
- 2. ALL RECTANGULAR DUCT SHALL BE TYPE G-60 GALVANIZED SHEET METAL, SEALED WITH LOW PRESSURE DUCT MASTIC. ROUND DUCTS SHALL BE GALVANIZED SHEET METAL SEALED WITH LOW PRESSURE DUCT MASTIC. LOCKING QUADRANT BALANCING DAMPERS SHALL BE INSTALLED IN EACH BRANCH TAKEOFF AT THE MAIN TRUNK DUCT. FLEXIBLE DUCT SHALL NOT EXCEED 5' IN LENGTH AND SHALL BE EQUAL TO FLEXMASTER TYPE 1M.
- 3. SUPPLY AND RETURN DUCTS SHALL BE INSULATED WITH 2" THICK, 3/4# DENSITY DUCT WRAP. DUCT WRAP SHALL BE SEALED WITH FIBERGLASS REINFÓRCING MESH, STAPLES AND MASTIC AT THE JOINTS.
- 4. SUBMIT ALL EQUIPMENT AND PRODUCTS PROPOSED TO BE USED FOR THIS PROJECT PRIOR TO ORDERING. SUBMIT SIX COPIES OF DATA SHEETS TO THE ENGINEER, BOUND IN A SINGLE VOLUME FOR APPROVAL.
- 5. SUBMIT A TEST AND BALANCE REPORT AT PROJECT COMPLETION PRIOR TO FINAL ACCEPTANCE. BALANCE FAN AIR VOLUMES TO WITHIN 5% OF DESIGN AND DIFFUSER AIR VOLUMES TO WITHIN 10% OF DESIGN.
- 6. ALL EQUIPMENT, PRODUCTS AND WORK SHALL BE GUARANTEED TO BE FREE OF DEFECTS IN MANUFACTURE AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. ALL REPAIRS WILL BE MADE AT NO COST TO THE OWNER.

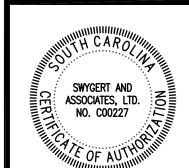
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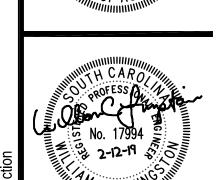
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West Columbia

South Carolina





BB 32

BID DOCUMENTS

DRAWN BY: CHECKED BY:

COMM NO: DATE:

2/12/2019 SHEET TITLE: DETAILS, NOTES, SCHEDULE, AND

LEGEND

	STANDARD FIRE ALARM SYMBOLS
FAC	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR
FPE FPE	FIRE ALARM POWER EXTENDER PANEL
FSD	FIRE/SMOKE DAMPER LOCATION
E	FIRE ALARM MANUAL PULL STATION. 48" AFF.
\frac{\frac}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}}}}{\frac}}}}}}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fir}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	FIRE ALARM WALL MOUNTED HORN WITH STROBE LIGHT, CANDELA RATING AS NOTED. MOUNT BETWEEN 80" AND 96" AFF PER NFPA 72 AND ADA REQUIREMENTS.
7 15	CEILING MOUNTED FIRE ALARM HORN WITH STROBE LIGHT, CANDELA RATING AS NOTED.
<u></u>	FIRE ALARM WALL MOUNTED STROBE LIGHT, CANDELA RATING AS NOTED. MOUNT BETWEEN 80" AND 96" AFF PER NFPA 72 AND ADA REQUIREMENTS.
() (15)	CEILING MOUNTED FIRE ALARM STROBE LIGHT, CANDELA RATING AS NOTED.
<u>S</u>	MULTI SENSOR (PHOTOELECTRIC, THERMAL) DETECTOR. CEILING MOUNTED, UNLESS NOTED.
\bigoplus	HEAT DETECTOR. CEILING MOUNTED, UNLESS NOTED OTHERWISE.
0	DUCT MOUNTED SMOKE DETECTOR.
A	DUCT SMOKE DETECTOR REMOTE ALARM INDICATOR WITH INTEGRATED KEYED TEST SWITCH.
Ю	WALL MOUNTED MAGNETIC DOOR HOLDER, 120V. 76" AFF, UNLESS NOTED — FIELD VERIFY WITH ARCHITECT.
(MM)	FIRE ALARM MONITORING MODULE.
⟨CM⟩	FIRE ALARM CONTROL MODULE.
TS	SPRINKLER SYSTEM TAMPER SWITCH MONITORING MODULE
(FS)	SPRINKLER SYSTEM FLOW SWITCH MONITORING MODULE
WP	WEATHERPROOF DEVICE. PROVIDE BACKBOX AND COVER U.L. LISTED AS WEATHERPROOF.
	DM SYMBOL SCHEDULE NOTES:

FIRE ALARM SYMBOL SCHEDULE NOTES: WALL MOUNTED NOTIFICATION DEVICES SHALL BE LOCATED AT UNIFORM HEIGHT ABOVE FINISHED FLOOR WHERE CEILING HEIGHTS ALLOW.

2. PROVIDE MINIMUM 3/4" C. WITH FIRE ALARM CABLING AND CONNECT ALL NEW DEVICES TO THE EXISTING EDWARDS SYSTEM TECHNOLOGY FIRE ALARM SYSTEM.

3. ALL NEW FIRE ALARM DEVICES SHALL MATCH THE EXISTING TYPE.

STANDARD LIGHTING SYMBOLS

SINGLE ZONE SWITCHING AND DIMMING CLOSED LOOP DIGITAL PHOTOSENSOR,

WATTSTOPPER LMLS-400 OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON.

1⊗ ⊗		WALL OR CEILING MOUNTED LED EXIT LIGHT, SHADED AREA DENOTES FACE.		1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE 2014 NATIONAL ELECTRICAL CODE (NEC), THE 2 INTERNATIONAL BUILDING CODE (IBC), AND ANY LOCAL CODES, LAWS AND ORDINANCES WHICH MAY APPLY. WHERE DIFFERENCES				
н	\$ \$	WALL OR CEILING MOUNTED LED EXIT LIGHT, SHADED AREA DENOTES FACE.		EXIST BETWEEN THE CODES, THÈ STRICTER CODE SHALL APPLY.				
	4_4	WALL MOUNTED EMERGENCY LIGHTING FIXTURE. PROVIDE AS SCHEDULED.	:	2. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR REGARDLESS OF USE.				
	S S _{WP} SINGLE POLE SWITCH, 20A, 120/277V, 48" AFF TO TOP OF OUTLET BOX. SUBSCRIPT DENOTES OUTLETS CONTROLLED. WP DENOTES SWITCH WITH LOCKABLE SHALLOW IN-USE STYLE WEATHERPROOF COVER PLATE, SEE 260500.			3. THE CONTRACTOR FOR THE WORK UNDER THIS SECTION SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, AND LICENSES REQUIRED FOR THE EXECUTION OF THIS WORK. SATISFACTORY EVIDENCE OF COMPLIANCE WITH THE REQUIREMENT AND ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER PROMPTLY UPON REQUEST.				
	S_3	SAME, EXCEPT THREE WAY.		4. TYPE MC CABLE MAY BE USED FOR INTERIOR, CONCEALED BRANCH CIRCUITS. WHERE CABLE WOULD OTHERWISE BE EXPOSED, IT SHALL BE INSTALLED IN CONDUIT. REDHEAD BUSHINGS SHALL BE PROVIDED AT EACH CABLE TERMINATION. TYPE MC MAY NOT BE				
	S ₄	SAME, EXCEPT FOUR WAY.		USED UNDERGROUND OR UNDER SLAB. TYPE MC CABLE MAY NOT PENETRATE RATED WALLS OR FLOORS.				
	S_{k}	SAME, EXCEPT SINGLE POLE KEYED SWITCH, 20A, 120/277V, 48" AFF.	;	5. ALL LOW VOLTAGE WIRING FOR OCCUPANCY SENSOR APPLICATIONS SHALL BE RUN IN METAL CONDUIT.				
	S_D	120/277V, 0-10V LED WALL BOX DIMMER WITH INTEGRAL ON/OFF BUTTON, 48" AFF TO TOP OF OUTLET BOX. RATING=1200W (120V) & 1660W (277V). ON/OFF TO BE ACCOMPLISHED WITHOUT THE USE OF SEPARATE POWER PACKS, UNLESS NOTED OTHERWISE. GREENGATE WBSD-010SLD OR EQUIVALENT OF WATTSTOPPER, ACUITY, CRESTRON, LEVITON, OR LUTRON. SEE DETAIL ON E605.		6. UNLESS OTHERWISE NOTED FOR 120-VOLT, 20-AMP CKTS: #10 AWG SHALL BE USED FOR HOMERUNS LONGER THAN 75 FEET #12 AWG SHALL BE USED FOR HOMERUNS 75 FEET OR SHORTER				
	S _{D3}	SAME, EXCEPT WIRED PER THE MANUFACTURER'S INSTRUCTIONS FOR FOR THREE WAY SWITCHING.		7. MULTIWIRE BRANCH CIRCUITS USING A SHARED OR COMMON NEUTRAL ARE NOT PERMITTED ON THIS PROJECT. THE CONTRACTOR SHALL PULL A SEPARATE NEUTRAL FOR ALL 120V AND 277V CIRCUITS.				
	S _{DE} S _{DN}	SLIDE—TO—OFF WALL BOX DIMMER, 48" AFF TO TOP OF OUTLET BOX. "DE" DENOTES ELECTRONIC		B. MOUNT RECEPTACLES 16" AFF UNLESS OTHERWISE NOTED.				
	S ₁₅₀₀ S ₆₀	LOW VOLTAGE DIMMER, "DM" DENOTES MAGNETIC VOLTAGE DIMMER, "600", "1000", "1500", OR "2000" DENOTES 600W, 1000W, 1500W, OR 2000W INCANDESCENT DIMMER. LUTRON NOVA T SERIES, OR EQUIVALENT. ALL DIMMERS TO BE SLIDE—TO—OFF UNLESS NOTED OTHERWISE.		9. ALL LIGHT SWITCHES AND RECEPTACLES SHALL BE BY THE SAME MANUFACTURER. COVER PLATES SHALL BE JUMBO STAINLESS STEEL. DEVICE COLOR TO BE SELECTED BY THE ARCHITECT UNLESS STATED WITH THE DEVICE SYMBOL.				
	S_{WA}	WALL MOUNTED IR SENSOR WITH BUILT-IN SWITCH, 48" AFF. SEE OCCUPANCY SENSOR DETAILS. WATTSTOPPER PW-100 (A) OR PW-200 (AB), OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON.	,	10. ELECTRICAL METALLIC TUBING AND RIGID GALVANIZED STEEL CONDUIT SHALL BE THE ONLY TYPES OF CONDUIT INSTALLED WITHIN THE BUILDING. PVC IS PERMITTED UNDERGROUND.				
	S _{TS}	WALL MOUNTED PRESET COUNTDOWN TIME SWITCH, 48" AFF. SEE OCCUPANCY SENSOR DETAILS. WATTSTOPPER RT-50 OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON.		I1. BRANCH CIRCUITS SHALL BE RUN CONCEALED WHERE PRACTICAL. BRANCH CIRCUITS RUN EXPOSED TO WEATHER ON EXTERIOR WALLS OR ON ROOFS SHALL BE RUN IN GRC OR IMC WITH SCREWED FITTINGS. BRANCH CIRCUITS RUN CONCEALED IN WALLS OR CEILINGS SHALL BE RUN IN EMT, GRC, OR IMC. BRANCH CIRCUITS RUN EXPOSED IN DRY, FINISHED SPACES SHALL BE RUN IN WIREMOLD SURFACE METAL RACEWAY. BRANCH CIRCUITS RUN EXPOSED IN DAMP LOCATIONS, UNFINISHED SPACES (ATTICS), AND UNOCCUPIED				
	DT WG	CEILING MOUNTED 360° DUAL TECHNOLOGY OCCUPANCY SENSOR. FURNISH, INSTALL, AND WIRE POWER PACK(S) PER THE MANUFACTURER'S INSTRUCTIONS. POWER PACKS NOT SHOWN ON DRAWINGS, BUT ARE REQUIRED, SEE OCCUPANCY SENSOR DETAILS AND NOTES FOR ADDITIONAL INFORMATION. WATTSTOPPER DT-300 (1000SF) WITH BZ-150 POWER PACK(S), OR EQUIVALENT		SPACES (STORAGE ROOM, EQUIPMENT ROOMS, JANITOR'S CLOSET, ETC.) MAY BE RUN IN EMT IN LIEU OF WIREMOLD. 12. CONDUIT HOMERUNS TO PANELBOARDS AND CONDUITS SHOWN WITH MULTIPLE CIRCUITS SHALL BE 3/4" MINIMUM, OTHERWISE RACEWAYS SHALL BE 1/2" MINIMUM, EXCEPT THAT FLEXIBLE CONDUIT SHALL BE 3/8" MINIMUM.				
	(IR)	OF ACUITY, EATON, CRESTRON, OR LUTRON. "WG" DENOTES WIRE GUARD. CEILING MOUNTED 360° INFRARED TECHNOLOGY OCCUPANCY SENSOR. FURNISH, INSTALL, AND WIRE		13. INTERIOR CONDUIT HOMERUNS TO PANELBOARDS SHALL BE RUN OVERHEAD IN EMT, GRC, OR IMC UNLESS NOTED OTHERWISE ON THE DRAWINGS.				
	(IR2)	POWER PACK(S) PER THE MANUFACTURER'S INSTRUCTIONS. POWER PACKS NOT SHOWN ON DRAWINGS, BUT ARE REQUIRED, SEE OCCUPANCY SENSOR DETAILS AND NOTES FOR ADDITIONAL INFORMATION. WATTSTOPPER CI-300-1 (IR, 500SF) AND CI-300 (IR2, 1200SF) WITH BZ-150 POWER PACK(S), OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON.		14. FIRE ALARM SYSTEM CONDUITS AND COMMUNICATIONS SYSTEM CONDUITS TO BE EMT RUN OVERHEAD CONCEALED IN WALLS OR CEILING UNLESS NOTED OTHERWISE.				
	(U) ∢ (U)≫	CEILING MOUNTED 360° ULTRASONIC SENSOR, FURNISH, INSTALL, AND WIRE POWER PACK(S) PER THE MANUFACTURER'S INSTRUCTIONS. POWER PACKS NOT SHOWN ON DRAWINGS, BUT ARE REQUIRED, SEE OCCUPANCY SENSOR DETAILS AND NOTES FOR ADDITIONAL INFORMATION. ARROWS DENOTE SENSOR FOR CORRIDORS WITH 90° LINEAR COVERAGE PATTERN. WATTSTOPPER UT-300-3 (2000SF OR 90LF) WITH BZ-150 POWER PACK(S), OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON.		15. ALL FIRE RATED WALLS, FLOORS, ETC WHICH HAVE A CONDUIT OR OTHER ELECTRICAL PENETRATION SHALL BE SEALED TO EQUAL THE RATING OF THE WALL, FLOOR, ETC. THAT IS PENETRATED. CONTRACTOR SHALL USE A U.L. RATED AND LISTED ASSEMBLY FOR THE SEALING MATERIAL AND METHOD. COORDINATE MANUFACTURER WITH THE GENERAL CONTRACTOR SO THAT ALL TRADES ON THE PROJECT USE THE SAME MANUFACTURER. THROUGH PENETRATIONS OF CONDUITS AND CABLES OF FIRE RESISTANCE RATED WALLS MUST COMPLY WITH SECTION 714.3.1 OF THE IBC. THROUGH PENETRATIONS OF FIRE RESISTANCE CEILING ASSEMBLIES MUST COMPLY WITH SECTION 714.4.1.1 OF THE IBC.				
		SAME AS ABOVE, EXCEPT DENOTES SENSOR TO BE PROVIDED WITH AUXILIARY RELAY FOR CONTROL OF SEPARATE LOAD SUCH AS A TOILET EXHAUST FAN, SEE OCCUPANCY SENSOR DETAILS AND	-	16. METALLIC WATER PIPING SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM (SEE NEC 250-104).				
`	UT)R	NOTES FOR ADDITIONAL INFORMATION. WATTSTOPPER \$120/277/347E-P RELAY, OR EQUIVALENT. OF ACUITY, EATON, CRESTRON, OR LUTRON.		17. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, LOCATIONS, CABINETS, ETC.				
	\$ D	DIGITAL DIMMING WALL SWITCH, 48" AFF. WATTSTOPPER LMDM—101 OR EQUIVALENT OF	-	18. CONCEAL ALL CONDUIT AND FITTINGS EXCEPT WHERE THE ARCHITECT GRANTS SPECIFIC PERMISSION.				
	₩υ	ACUITY, EATON, CRESTRON, OR LUTRON.		19. ALL WORK AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE.				
	\$2 \$4	DIGITAL WALL SWITCH, 48" AFF. "2" DENOTES 2-BUTTON SWITCH, "4" DENOTES 4-BUTTON SWITCH. WATTSTOPPER LMSW-102 (2-BUTTON), LMSW-104 (4-BUTTON), OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON. SWITCHES TO INCLUDE FACTORY ENGRAVED BUTTONS.		20. PROVIDE ONE COMPLETE SET OF ELECTRICAL DRAWINGS MARKED UP FOR RECORD DRAWINGS. SHOW ALL LOCATIONS OF EQUIPMENT AND MATERIALS.				
	\$2WP \$4\	SAME AS ABOVE, EXCEPT "WP" DENOTES SHALLOW IN-USE STYLE COVER WITH LOCKABLE CLEAR COVER. TAYMAC/HUBBELL MM110C COVER OR ACCEPTABLE EQUIVALENT.		21. INSTALL ALL MATERIALS PER MANUFACTURER'S INSTRUCTIONS. 22. IDENTIFY MAJOR EQUIPMENT INSTALLED WITH LAMICOR LABELS (SEE SPECS). PROVIDE FLASH HAZARD SIGN AT ALL ELECTRICAL				
	\$5	5-BUTTON DIGITAL SCENE SWITCH, 48" AFF. WATTSTOPPER LMSW-105 OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON. SWITCH TO INCLUDE FACTORY ENGRAVED BUTTONS.		PANELS. PROVIDE A TYPED DIRECTORY IN ALL PANEL BOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS.				
	(DDT)	DIGITAL DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR, WATTSTOPPER LMDC-100 OR	:	23. VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.				
	DIR	EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON. DIGITAL INFRARED CEILING MOUNT OCCUPANCY SENSOR WITH HIGH-DENSITY LENS, WATTSTOPPER LMPC-100-1 OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON.	:	24. ALL RACEWAYS, FIXTURES, WIRING, DEVICES, AND EQUIPMENT RENDERED USELESS BY THIS WORK SHALL BE REMOVED AND DELIVERED TO THE OWNER'S STORAGE FACILITY AS DIRECTED. ANY MATERIAL NOT WANTED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.				
	LMRC1	ONE, TWO, OR THREE RELAY WITH 0-10V DIMMING ROOM CONTROLLER, WATTSTOPPER LMRC-211 OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON. MOUNT ABOVE ACOUSTICAL TILE		25. ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING AND PATCHING AS REQUIRED TO INSTALL HIS WORK. FINISH PATCHING AND PAINTING WILL BE DONE BY THE GENERAL CONTRACTOR.				
	LMRC3	CEILING NEAR WALL SWITCH, SEE DETAILS ON DRAWINGS. - 1-RELAY (LMRC1) = WATTSTOPPER LMRC-211 OR EQUIVALENT OF ACUITY OR GREENGATE. - 2-RELAY (LMRC2) = WATTSTOPPER LMRC-212 OR EQUIVALENT OF ACUITY OR GREENGATE. - 3-RELAY (LMRC3) = WATTSTOPPER LMRC-213 OR EQUIVALENT OF ACUITY OR GREENGATE.		26. PRIOR TO DIGGING ANY TRENCHES, NOTIFY ALL UTILITIES AND OBTAIN LOCATIONS OF UNDERGROUND UTILITIES. ANY DAMAGES DONE TO UNDERGROUND UTILITIES OR PIPING BY THIS CONTRACTOR WILL BE REPAIRED BY THE OWNER OF THE LINE IN A SATISFACTORY MANNER. THIS CONTRACTOR WILL BEAR ALL COSTS FOR REPAIRS.				
	(MIO)	DIGITAL I/O INTERFACE, WATTSTOPPER LMIO-101 OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON.		27. CONDUITS TO BE RUN UNDER WALKWAYS AND PAVINGS SHALL BE INSTALLED BY JACKING OR BORING, UNLESS NOTED. DO NOT CUT WALKWAYS OR PAVEMENTS, UNLESS ACCEPTABLE TO THE ENGINEER. ALLOWED CUTS IN PAVEMENT OR CONCRETE SHALL BE MADE USING A PAVEMENT SAW. AND SHALL BE PATCHED TO MATCH THE EXISTING SURFACE.				

	STANDARD LIGHTING SYMBOLS	SCOPE OF WORK					
·	RECESSED FIXTURE, WIRE THRU GREENFIELD FROM OUTLET BOX ABOVE CEILING, PROVIDE AS SCHEDULED. "NL" DENOTES FIXTURE WIRED TO A SEPARATE 24/7 NIGHT LIGHT CIRCUIT.	RAC MIS OP	IE WORK OF THIS SECTION SHALL PROVIDE COMPLETE ELECTRICAL SYSTEMS WHICH SHALL INCLUDE THE PROVIDING OF ALL CONDUCTORS, ICEWAYS, FITTINGS, CIRCUIT PROTECTIVE DEVICES, LIGHT FIXTURES, BOXES, SUPPORTS, AND ALL ASSOCIATED APPURTENANCES AND SCELLANEOUS EQUIPMENT NECESSARY, ALL OF WHICH SHALL BE COMPLETELY CONNECTED, TESTED, ADJUSTED AND LEFT IN PROPER PERATING CONDITION. THE ELECTRICAL SYSTEM TO BE PROVIDED SHALL INCLUDE SERVICE AND DISTRIBUTION FACILITIES POWER FOR DOTOR OPERATED EQUIPMENT, LIGHTING SYSTEMS, AND ALL OUTLETS AS COVERED HEREINAFTER.				
	HALF—SHADED FIXTURE DENOTES EMERGENCY LIGHTING FIXTURE. PROVIDE EMERGENCY BALLASTS OR GENERATOR TRANSFER DEVICES WHERE SCHEDULED.	G	ENERAL NOTES:				
H⊗ ⊗ H⊗	WALL OR CEILING MOUNTED LED EXIT LIGHT, SHADED AREA DENOTES FACE. WALL OR CEILING MOUNTED LED EXIT LIGHT, SHADED AREA DENOTES FACE.	1.	ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE 2014 NATIONAL ELECTRICAL CODE (NEC), THE 2015 INTERNATIONAL BUILDING CODE (IBC), AND ANY LOCAL CODES, LAWS AND ORDINANCES WHICH MAY APPLY. WHERE DIFFERENCES EXIST BETWEEN THE CODES, THE STRICTER CODE SHALL APPLY.				
44	WALL MOUNTED EMEDOENCY LIGHTING FIVTHIRE DROWNE AS COHEDULED	2.	ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR REGARDLESS OF USE.				
S S _{WP}	WALL MOUNTED EMERGENCY LIGHTING FIXTURE. PROVIDE AS SCHEDULED. SINGLE POLE SWITCH, 20A, 120/277V, 48" AFF TO TOP OF OUTLET BOX. SUBSCRIPT DENOTES OUTLETS CONTROLLED. WP DENOTES SWITCH WITH LOCKABLE SHALLOW	3.	THE CONTRACTOR FOR THE WORK UNDER THIS SECTION SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, AND LICENSES REQUIRED FOR THE EXECUTION OF THIS WORK. SATISFACTORY EVIDENCE OF COMPLIANCE WITH THE REQUIREMENT AND ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER PROMPTLY UPON REQUEST.				
S ₃	IN-USE STYLE WEATHERPROOF COVER PLATE, SEE 260500. SAME, EXCEPT THREE WAY.	4.	TYPE MC CABLE MAY BE USED FOR INTERIOR, CONCEALED BRANCH CIRCUITS. WHERE CABLE WOULD OTHERWISE BE EXPOSED, IT SHALL BE INSTALLED IN CONDUIT. REDHEAD BUSHINGS SHALL BE PROVIDED AT EACH CABLE TERMINATION. TYPE MC MAY NOT BE USED UNDERGROUND OR UNDER SLAB. TYPE MC CABLE MAY NOT PENETRATE RATED WALLS OR FLOORS.				
S ₄	SAME, EXCEPT FOUR WAY.	5.					
S _K	SAME, EXCEPT SINGLE POLE KEYED SWITCH, 20A, 120/277V, 48" AFF.	6.	UNLESS OTHERWISE NOTED FOR 120-VOLT, 20-AMP CKTS:				
S _D	120/277V, 0-10V LED WALL BOX DIMMER WITH INTEGRAL ON/OFF BUTTON, 48" AFF TO TOP OF OUTLET BOX. RATING=1200W (120V) & 1660W (277V). ON/OFF TO BE ACCOMPLISHED WITHOUT THE USE OF SEPARATE POWER PACKS, UNLESS NOTED OTHERWISE. GREENGATE WBSD-010SLD OR EQUIVALENT OF WATTSTOPPER, ACUITY, CRESTRON, LEVITON, OR LUTRON. SEE DETAIL ON E605.	0.	#10 AWG SHALL BE USED FOR HOMERUNS LONGER THAN 75 FEET #12 AWG SHALL BE USED FOR HOMERUNS 75 FEET OR SHORTER				
S _{D3}	SAME, EXCEPT WIRED PER THE MANUFACTURER'S INSTRUCTIONS FOR FOR THREE WAY SWITCHING.	7.	MULTIWIRE BRANCH CIRCUITS USING A SHARED OR COMMON NEUTRAL ARE NOT PERMITTED ON THIS PROJECT. THE CONTRACTOR SHALL PULL A SEPARATE NEUTRAL FOR ALL 120V AND 277V CIRCUITS.				
S_{DE} S_{DM}	SLIDE-TO-OFF WALL BOX DIMMER, 48" AFF TO TOP OF OUTLET BOX. "DE" DENOTES ELECTRONIC LOW VOLTAGE DIMMER, "DM" DENOTES MAGNETIC VOLTAGE DIMMER, "600", "1000", "1500", OR	8.	MOUNT RECEPTACLES 16" AFF UNLESS OTHERWISE NOTED.				
S ₁₅₀₀ S ₆₀₀	"2000" DENOTES 600W, 1000W, 1500W, OR 2000W INCANDESCENT DIMMER. LUTRON NOVA T SERIES, OR EQUIVALENT. ALL DIMMERS TO BE SLIDE—TO—OFF UNLESS NOTED OTHERWISE.	9.	ALL LIGHT SWITCHES AND RECEPTACLES SHALL BE BY THE SAME MANUFACTURER. COVER PLATES SHALL BE JUMBO STAINLESS STEEL. DEVICE COLOR TO BE SELECTED BY THE ARCHITECT UNLESS STATED WITH THE DEVICE SYMBOL.				
S _{WA}	WALL MOUNTED IR SENSOR WITH BUILT-IN SWITCH, 48" AFF. SEE OCCUPANCY SENSOR DETAILS. WATTSTOPPER PW-100 (A) OR PW-200 (AB), OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON.		ELECTRICAL METALLIC TUBING AND RIGID GALVANIZED STEEL CONDUIT SHALL BE THE ONLY TYPES OF CONDUIT INSTALLED WITHIN THE BUILDING. PVC IS PERMITTED UNDERGROUND.				
S _{TS}	WALL MOUNTED PRESET COUNTDOWN TIME SWITCH, 48" AFF. SEE OCCUPANCY SENSOR DETAILS. WATTSTOPPER RT-50 OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON.	11.	. BRANCH CIRCUITS SHALL BE RUN CONCEALED WHERE PRACTICAL. BRANCH CIRCUITS RUN EXPOSED TO WEATHER ON EXTERIOR WALLS OR ON ROOFS SHALL BE RUN IN GRC OR IMC WITH SCREWED FITTINGS. BRANCH CIRCUITS RUN CONCEALED IN WALLS OR CEILINGS SHALL BE RUN IN EMT, GRC, OR IMC. BRANCH CIRCUITS RUN EXPOSED IN DRY, FINISHED SPACES SHALL BE RUN IN WIREMOLD SURFACE METAL RACEWAY. BRANCH CIRCUITS RUN EXPOSED IN DAMP LOCATIONS, UNFINISHED SPACES (ATTICS), AND UNOCCUPIED				
(DT) WG	CEILING MOUNTED 360° DUAL TECHNOLOGY OCCUPANCY SENSOR. FURNISH, INSTALL, AND WIRE POWER PACK(S) PER THE MANUFACTURER'S INSTRUCTIONS. POWER PACKS NOT SHOWN ON DRAWINGS, BUT ARE REQUIRED, SEE OCCUPANCY SENSOR DETAILS AND NOTES FOR ADDITIONAL INFORMATION. WATTSTOPPER DT—300 (1000SF) WITH BZ—150 POWER PACK(S), OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON. "WG" DENOTES WIRE GUARD.	12.	SPACES (STORAGE ROOM, EQUIPMENT ROOMS, JANITOR'S CLOSET, ETC.) MAY BE RUN IN EMT IN LIEU OF WIREMOLD. CONDUIT HOMERUNS TO PANELBOARDS AND CONDUITS SHOWN WITH MULTIPLE CIRCUITS SHALL BE 3/4" MINIMUM, OTHERWISE RACEWAYS SHALL BE 1/2" MINIMUM, EXCEPT THAT FLEXIBLE CONDUIT SHALL BE 3/8" MINIMUM.				
(R)	CEILING MOUNTED 360° INFRARED TECHNOLOGY OCCUPANCY SENSOR. FURNISH, INSTALL, AND WIRE POWER PACK(S) PER THE MANUFACTURER'S INSTRUCTIONS. POWER PACKS NOT SHOWN ON	13.	INTERIOR CONDUIT HOMERUNS TO PANELBOARDS SHALL BE RUN OVERHEAD IN EMT, GRC, OR IMC UNLESS NOTED OTHERWISE ON THE DRAWINGS.				
(IR2)	DRAWINGS, BÙT ARE REQUIRED, SEE OCCUPANCY SENSOR DETAILS AND NOTES FOR ADDITIONAL INFORMATION. WATTSTOPPER CI-300-1 (IR, 500SF) AND CI-300 (IR2, 1200SF) WITH BZ-150 POWER PACK(S), OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON.	14.	FIRE ALARM SYSTEM CONDUITS AND COMMUNICATIONS SYSTEM CONDUITS TO BE EMT RUN OVERHEAD CONCEALED IN WALLS OR CEILING UNLESS NOTED OTHERWISE.				
<u>□></u>	CEILING MOUNTED 360° ULTRASONIC SENSOR, FURNISH, INSTALL, AND WIRE POWER PACK(S) PER THE MANUFACTURER'S INSTRUCTIONS. POWER PACKS NOT SHOWN ON DRAWINGS, BUT ARE REQUIRED, SEE OCCUPANCY SENSOR DETAILS AND NOTES FOR ADDITIONAL INFORMATION. ARROWS DENOTE SENSOR FOR CORRIDORS WITH 90° LINEAR COVERAGE PATTERN. WATTSTOPPER UT-300-3 (2000SF OR 90LF) WITH BZ-150 POWER PACK(S), OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON.	15.	ALL FIRE RATED WALLS, FLOORS, ETC WHICH HAVE A CONDUIT OR OTHER ELECTRICAL PENETRATION SHALL BE SEALED TO EQUAL THE RATING OF THE WALL, FLOOR, ETC. THAT IS PENETRATED. CONTRACTOR SHALL USE A U.L. RATED AND LISTED ASSEMBLY FOR THE SEALING MATERIAL AND METHOD. COORDINATE MANUFACTURER WITH THE GENERAL CONTRACTOR SO THAT ALL TRADES ON THE PROJECT USE THE SAME MANUFACTURER. THROUGH PENETRATIONS OF CONDUITS AND CABLES OF FIRE RESISTANCE RATED WALLS MUST COMPLY WITH SECTION 714.4.1.1 OF THE IBC. THROUGH PENETRATIONS OF FIRE RESISTANCE CEILING ASSEMBLIES MUST COMPLY WITH SECTION 714.4.1.1 OF THE IBC.				
	SAME AS ABOVE, EXCEPT DENOTES SENSOR TO BE PROVIDED WITH AUXILIARY RELAY FOR CONTROL	16.	METALLIC WATER PIPING SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM (SEE NEC 250-104).				
UT/R	OF SEPARATE LOAD SUCH AS A TOILET EXHAUST FAN, SEE OCCUPANCY SENSOR DETAILS AND NOTES FOR ADDITIONAL INFORMATION. WATTSTOPPER S120/277/347E-P RELAY, OR EQUIVALENT.	17.	REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, LOCATIONS, CABINETS, ETC.				
	OF ACUITY, EATON, CRESTRON, OR LUTRON.	18.	CONCEAL ALL CONDUIT AND FITTINGS EXCEPT WHERE THE ARCHITECT GRANTS SPECIFIC PERMISSION.				
\$ D	DIGITAL DIMMING WALL SWITCH, 48" AFF. WATTSTOPPER LMDM-101 OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON.	19.	. ALL WORK AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE.				
\$2 \$4	DIGITAL WALL SWITCH, 48" AFF. "2" DENOTES 2—BUTTON SWITCH, "4" DENOTES 4—BUTTON SWITCH. WATTSTOPPER LMSW—102 (2—BUTTON), LMSW—104 (4—BUTTON), OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON. SWITCHES TO INCLUDE FACTORY ENGRAVED BUTTONS.	20.	D. PROVIDE ONE COMPLETE SET OF ELECTRICAL DRAWINGS MARKED UP FOR RECORD DRAWINGS. SHOW ALL LOCATIONS OF EQUIPMENT AND MATERIALS.				
\$2WP \$4WP			. INSTALL ALL MATERIALS PER MANUFACTURER'S INSTRUCTIONS.				
\$ 5	5-BUTTON DIGITAL SCENE SWITCH, 48" AFF. WATTSTOPPER LMSW-105 OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON. SWITCH TO INCLUDE FACTORY ENGRAVED BUTTONS.	22.	2. IDENTIFY MAJOR EQUIPMENT INSTALLED WITH LAMICOR LABELS (SEE SPECS). PROVIDE FLASH HAZARD SIGN AT ALL ELECTRICAL PANELS. PROVIDE A TYPED DIRECTORY IN ALL PANEL BOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS.				
(DDT)	DIGITAL DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR, WATTSTOPPER LMDC-100 OR	23.	3. VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.				
(DIR)	EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON. DIGITAL INFRARED CEILING MOUNT OCCUPANCY SENSOR WITH HIGH-DENSITY LENS, WATTSTOPPER LMPC-100-1 OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON.	24.	ALL RACEWAYS, FIXTURES, WIRING, DEVICES, AND EQUIPMENT RENDERED USELESS BY THIS WORK SHALL BE REMOVED AND DELIVERED TO THE OWNER'S STORAGE FACILITY AS DIRECTED. ANY MATERIAL NOT WANTED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.				
LMRC1	ONE, TWO, OR THREE RELAY WITH 0-10V DIMMING ROOM CONTROLLER, WATTSTOPPER LMRC-211 OR EQUIVALENT OF ACUITY, EATON, CRESTRON, OR LUTRON. MOUNT ABOVE ACOUSTICAL TILE CEILING NEAR WALL SWITCH, SEE DETAILS ON DRAWINGS.	25.	5. ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING AND PATCHING AS REQUIRED TO INSTALL HIS WORK. FINISH PATCHING AND PAINTING WILL BE DONE BY THE GENERAL CONTRACTOR.				

	TO THE OWNER.								
LIG	LIGHTING FIXTURE SCHEDULE								
TYPE	SYMB0L	LAMP	DESCRIPTION	MODEL	WATTS	VOLTS	NOTE 1		
B39		(1) LED	2x2 SPEC GRADE RECESSED LED FIXTURE WITH 0-10V DIMMING CAPABILITY AND THE FOLLOWING MINIMUM CRITERIA: 3900 LUMEN OUTPUT, 115LPW, 80CRI, 4000K.	FIDELUX FFP22-30W-40-UNV-D OR EQUIVALENT OF LITHONIA EPANL SERIES, METALUX 24FP SERIES, OR COLUMBIA CFP SERIES	32	MULTIPLE	RECESSED-CEILING.		
B39E		(1) LED	SAME AS TYPE B39 EXCEPT PROVIDE EMERGENCY BATTERY BACKUP. BODINE B50 OR EQUAL.	FIDELUX FFP22-30W-40-UNV-D OR EQUIVALENT OF LITHONIA EPANL SERIES, METALUX 24FP SERIES, OR COLUMBIA CFP SERIES	32	MULTIPLE	RECESSED-CEILING.		
F32		(1) LED	4-FOOT SPEC GRADE SURFACE LED FIXTURE WITH THE FOLLOWING MINIMUM CRITERIA: 3200 LUMEN OUTPUT, 110LPW, 80CRI, 4000K.	WILLIAMS 75R-4-L30/840-DRV-UNV OR EQUIVALENT OF LITHONIA ZL1D SERIES OR METALUX SNLED SERIES	23	MULTIPLE	SURFACE-CEILING.		
X1C	8	(1) LED	CEILING MOUNT SINGLE FACE LED EXIT SIGN WITH EVEN ILLUMINATION RED DIFFUSER, WHITE THERMOPLASTIC HOUSING. PROVIDE WITH BATTERY BACKUP. 90 MIN. RATING. MINIMUM.	EMERGILITE ELX400-RN LITHONIA LQM-S-W-3-R-120/277 SURELITES LPX-6	2	MULTIPLE			
X1W	8	(1) LED	SAME AS TYPE X1C EXCEPT FLAT WALL MOUNTED.	ADJUST CATALOG NUMBERS FOR FLAT WALL MOUNTED EXIT	2	MULTIPLE			

USING A PAVEMENT SAW, AND SHALL BE PATCHED TO MATCH THE EXISTING SURFACE.

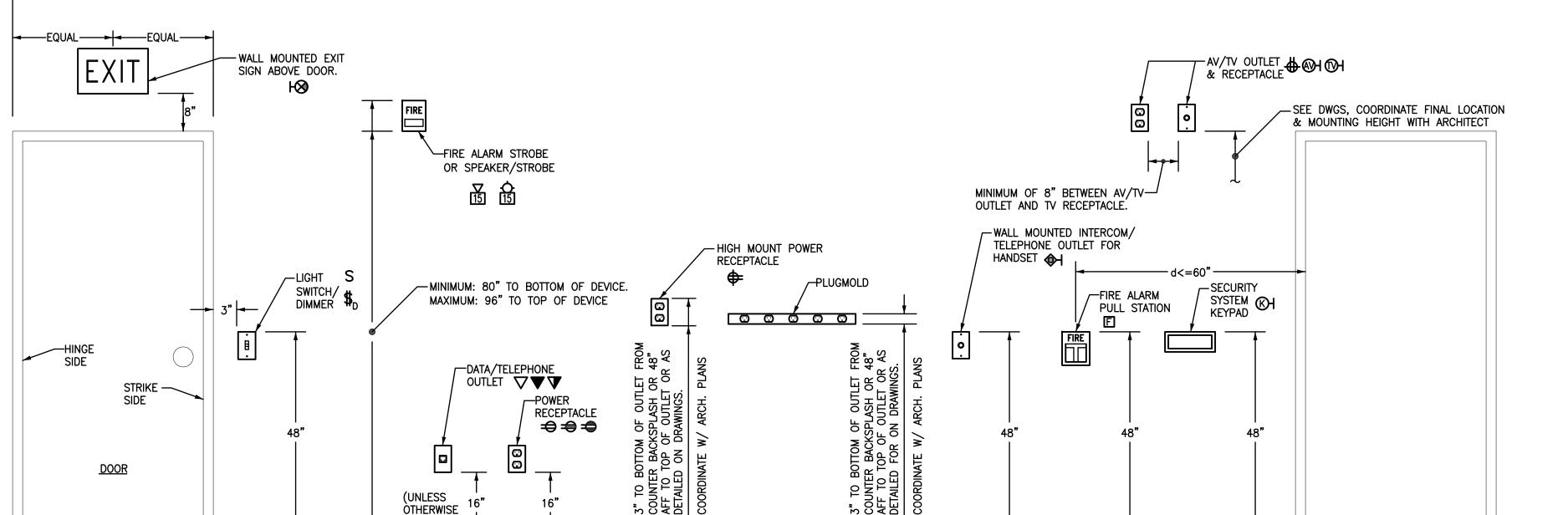
WHERE DISAGREEMENTS EXISTS ON THE DESIGN DOCUMENTS, THE ITEM OR ARRANGEMENTS OF BETTER QUALITY, GREATER QUANTITY,

CONDITIONS SHALL BE RESOLVED WITH THE ENGINEER PRIOR TO COMMENCING WORK. ALL AGREEMENTS SHALL BE VERIFIED IN

ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH OTHER TRADES TO INSURE PROPER LOCATION OF OUTLETS AND

OR HIGHER COST SHALL BE INCLUDED IN THE BASE BID. ANY DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS, AND FIELD

EQUIPMENT CONNECTIONS, AND TO MINIMIZE CONFLICTS WITH STRUCTURAL MEMBERS, DUCT WORK, PIPING, ETC. CONFLICTS BETWEEN EQUIPMENT AND/OR MATERIAL LOCATIONS SHALL BE CORRECTED AS DIRECTED BY THE ARCHITECT-ENGINEER AT NO ADDITIONAL COST



ELECTRICAL SHEET LIST

E001 - ELECTRICAL SYMBOLS & NOTES

E002 - ELECTRICAL SITE PLAN

E101 - FIRST FLOOR LIGHTING E102 - SECOND FLOOR LIGHTING PLAN

E201 — BASEMENT POWER PLAN E501 - FIRST FLOOR FIRE ALARM PLAN

ELECTRICAL SUBMITTALS

ELECTRICAL SHOP DRAWINGS SHALL BE SUBMITTED IN ONE COMPLETE PACKAGE CONTAINING ALL ITEMS REQUIRED BY THE ELECTRICAL DRAWINGS AND THE DIVISION 26-28 SPECIFICATIONS. PARTIAL SHOP DRAWING SUBMITTALS MAY BE REJECTED BY THE ARCHITECT-ENGINEER. REFER TO SECTION 260510 OF THE ELECTRICAL SPECIFICATIONS FOR REQUIRED SUBMITTAL FORMAT AND FOR ADDITIONAL REQUIREMENTS.

	ABBREV	/IATIC	ONS
Α	AMPERES		
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
		MFR	MANUFACTURER
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRICAL CODE
AHJ	AUTHORITY HAVING JURISDICTION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIO
CKT	CIRCUIT	NIC	NOT IN CONTRACT
CU	COPPER		
EC	EMPTY CONDUIT	PH,ø	PHASE
EQPT	EQUIPMENT	RCPT	RECEPTACLE
		RE:	REFER TO
EXST	EXISTING	TYP	TYPICAL
FWE	FURNISHED WITH EQUIPMENT	UNO	UNLESS NOTED OTHERWISE
GFI	GROUND FAULT INTERRUPTER	V	
IAW	IN ACCORDANCE WITH		VOLTS
KVA	KILOVOLTAMPERES	W	WIRE OR WATTS

FINISHED CEILING

FLOOR

ELECTRICAL DEMOLITION NOTES

KW KILOWATTS

A. IT IS THE GENERAL INTENTION OF THESE DRAWINGS TO COVER ALL TO BE A LIGHT FIXTURE, DUPLEX RECEPTACLE, LIGHT SWITCH, FIRE ALARM DEVICE, OR OTHER ELECTRICAL ITEM. THE ELECTRICAL CONTRACTOR SHALL ASSIST THE MECHANICAL AND GENERAL CONTRACTORS IN REMOVAL OF EQUIPMENT WITH ELECTRICAL CONNECTIONS BEING REMOVED BY THESE CONTRACTORS.

PRIOR TO SUBMITTING BID. THE CONTRACTOR SHALL SURVEY THE EXISTING BUILDING AND MAKE NOTE OF ANY ADDITIONAL DEMOLITION AND/OR ANY ADDITIONAL REMOVAL AND RELOCATION WHICH MAY BE REQ'D IN ORDER TO ACCOMPLISH RENOVATIONS INDICATED IN CONTRACT DOCUMENTS. NO CHANGE ORDER WILL BE ISSUED FOR ADDITIONAL WORK REQUIRED FOR DEMOLITION, REMOVAL, OR RELOCATION WORK NOT INDICATED ON THESE DRAWINGS BUT NECESSARY TO COMPLETE

IN ALL AREAS WHERE EXISTING WALLS ARE BEING REMOVED, NEW WALLS ARE BEING ADDED, AND WHERE OTHER DEMOLITION WORK IS OCCURRING, REMOVE ALL EXISTING RECEPTACLES, LIGHTS, AND OTHER ELECTRICAL DEVICES, AND ALL WIRING AND CONDUIT NOT BEING REUSED. EXISTING CONDUIT RUN CONCEALED IN EXISTING WALLS NOT BEING REMOVED AND/OR REPLACED MAY BE ABANDONED. ALL DEMOLITION MUST BE COORDINATED WITH THE ARCHITECT AND WITH ALL OTHER TRADES TO AVOID CONFLICTS. REFER TO THE ARCHITECTURAL

NO EXISTING ELECTRICAL MATERIALS, EQUIPMENT, WIRING, OR CONDUIT BEING REMOVED MAY BE REUSED ON THIS PROJECT UNLESS SPECIFICALLY NOTED OTHERWISE ON THESE DRAWINGS. ALL EXISTING ELECTRICAL MATERIALS AND EQUIPMENT NOT BEING REUSED SHALL BE

C18073

BID SET

Phone: (803) 765-1007 Fax: (803) 765-1030

SIMS GROUP ENGINEERS, INC.

800 Columbiana Drive, Suite 208

Irmo, South Carolina 29063

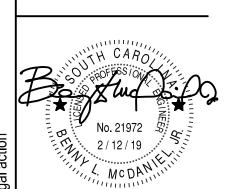
www.simsgroupusa.com

Sease

ARCHITECTS

412 Meeting Street West Columbia South Carolina





ZRINK)
TE

WP WEATHERPROOF

SITUATIONS WHERE AN ITEM IS TO BE REMOVED, WHETHER IT HAPPENS

DEMOLITION PLAN.

DISPOSED OF AS INDICATED IN GENERAL NOTES.

LIGHTING FIXTURE SCHEDULE NOTES

- . FIXTURE BODIES MANUFACTURED FROM PRE-PAINTED STEEL SHALL BE PAINTED AFTER FABRICATION, UNLESS
- WARRANTY FOR ALL LED FIXTURES SHALL BE A MINIMUM OF 10-YEARS FROM DATE OF SUBSTANTIAL COMPLETION UNLESS NOTED OTHERWISE.
- 3. REFER TO LUMINAIRE SCHEDULE FOR LED DESIGN CRITERIA (DELIVERED LUMENS, LUMENS PER WATT, CRI, COLOR TEMPERATURE, LUMEN MAINTENANCE FACTOR). LISTED CRITERIA REPRESENTS THE MINIMUM
- ACCEPTABLE VALUES. FIXTURES NOT MEETING THE LISTED MINIMUM REQUIREMENTS ARE NOT ACCEPTABLE.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING SCHEDULE AND/OR REFLECTED CEILING PLAN.
- WIRE RECESSED LED OR FLUORESCENT FIXTURES THRU GREENFIELD FROM OUTLET BOX ABOVE CEILING, EXCEPT THAT TYPE MC CABLE MAY BE USED FOR LIGHT FIXTURE WIRING ABOVE ACCESSIBLE LAY-IN CEILINGS.
- . PULL UNSWITCHED HOT LEG, SAME CIRCUIT IN ROOM, TO ALL EXIT LIGHTS AND EMERGENCY BATTERY LIGHTS AS REQUIRED. ALL EMERGENCY BATTERIES SHALL BE SEALED, MAINTENANCE-FREE, HIGH TEMPERATURE NICKEL CADMIUM BATTERIES, UNLESS NOTED.
- WHERE SPECIFIED FOR DIGITAL SWITCHING SYSTEMS, LOW VOLTAGE LIGHTING CONTROL SYSTEMS, AND OCCUPANCY SENSORS - PROVIDE ALL POWER PACKS. POWER SUPPLIES. RELAYS. PROGRAMMING. CABLING. MOUNTING HARDWARE, ETC. NECESSARY TO PROVIDE COMPLETE AND OPERABLE LIGHTING CONTROL SYSTEMS.
- 8. FIXTURE MOUNTING HEIGHTS REFER TO ARCHITECTURAL DRAWINGS & ELEVATIONS FOR MOUNTING HEIGHTS OF WALL MOUNTED LIGHT FIXTURES. MOUNTING HEIGHTS INDICATED ON ELECTRICAL DRAWINGS ARE FOR
- BIDDING PURPOSES, FIELD VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN. 9. 0-10V LED DIMMERS SHALL INCLUDE AN INTEGRAL ON/OFF SWITCH UNLESS NOTED OTHERWISE.
- 10. PROVIDE SEPARATE SHOP DRAWING SUBMITTALS FOR LIGHT FIXTURES AND LIGHTING CONTROLS AS INDICATED IN SECTION 260510.
- 11. LIGHT FIXTURES MOUNTED IN ACOUSTICAL CEILING GRID OR SIMILAR CEILING SYSTEMS SHALL BE SECURELY FASTENED TO THE CEILING FRAMING MEMBER BY MECHANICAL MEANS SUCH AS BOLTS, SCREWS, RIVETS, OR LISTED CLIPS PER THE REQUIREMENTS OF NEC 410.36(B), WITHIN 6" OF EACH CORNER.
- . ALL SCREWS, BOLTS, ETC. FOR LIGHT FIXTURES LOCATED OUTDOORS SHALL BE STAINLESS STEEL, INCLUDING MOUNTING HARDWARE FOR LIGHT FIXTURE ACCESSORIES.

DRAWN BY: BLM CHECKED BY: COMM NO:

DATE: 2/12/2019

ELECTRICAL

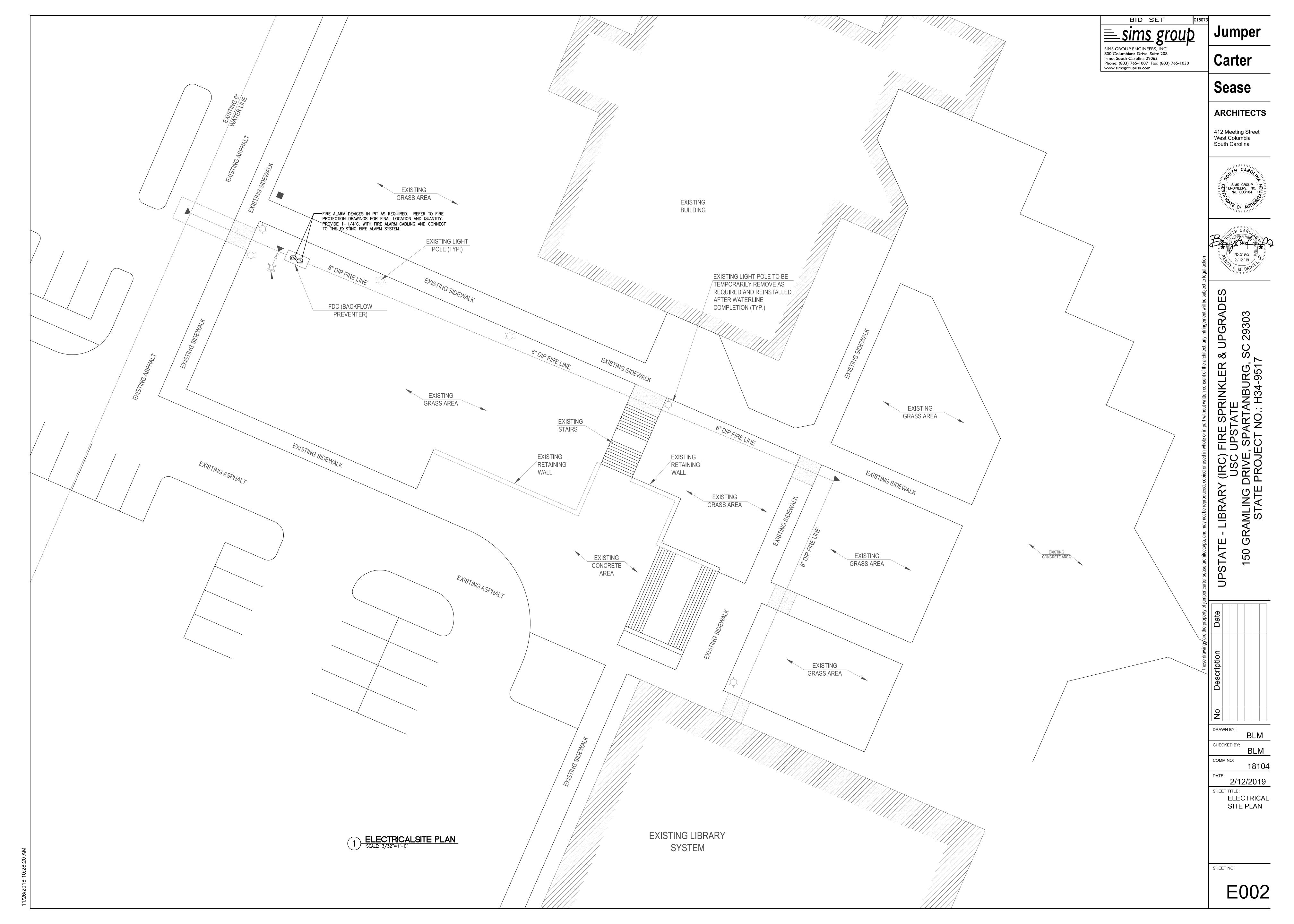
SYMBOLS AND NOTES

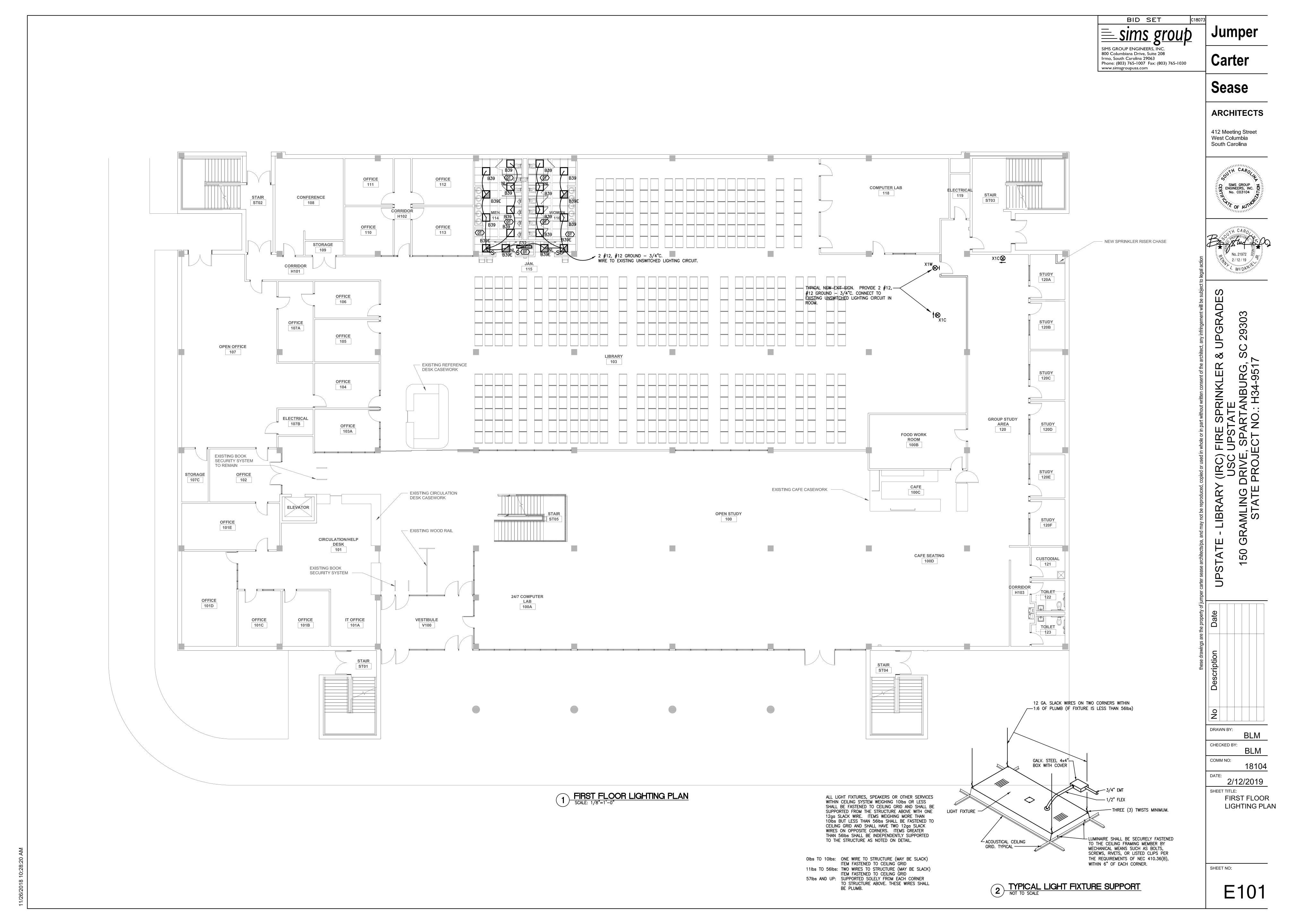
SHEET NO:

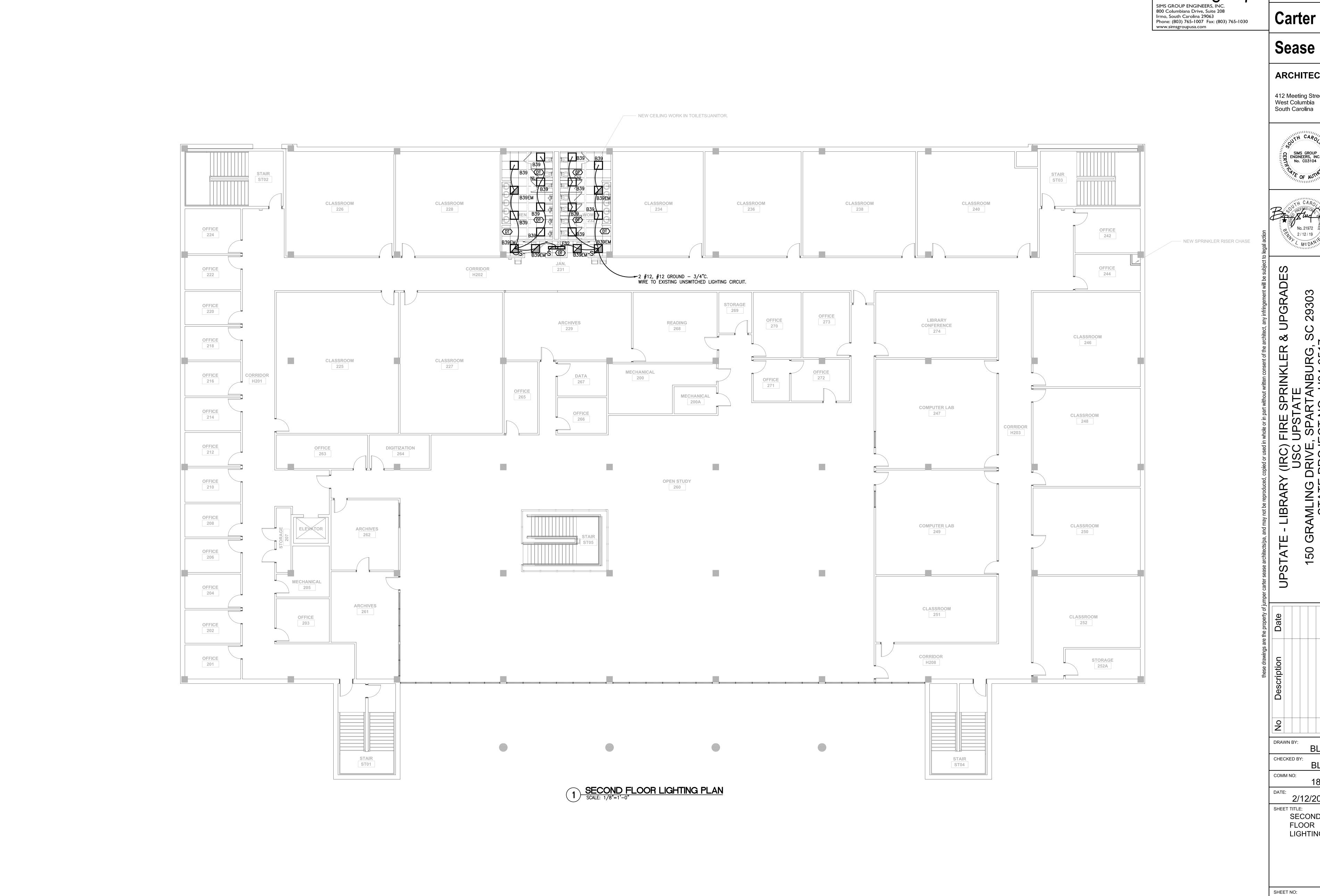
1) TYPICAL MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES

NOT TO SCALE

E001



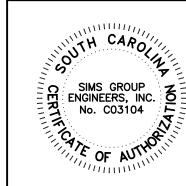


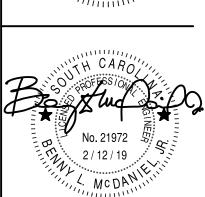


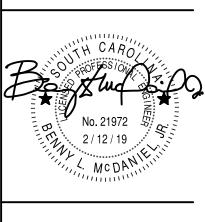
BID SET

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412 Meeting Street West Columbia South Carolina







BLM

DATE: 2/12/2019

SHEET TITLE:
SECOND
FLOOR
LIGHTING PLAN

E102

RISER

2 BASEMENT PLAN - RISER ROOM 011A SCALE: 1/2"=1'-0"

FIRE ALARM DEVICES IN PIT AS REQUIRED. REFER TO FIRE PROTECTION DRAWINGS FOR FINAL LOCATION AND QUANTITY.
PROVIDE 1"C. WITH FIRE ALARM CABLING AND CONNECT TO THE EXISTING FIRE ALARM SYSTEM.

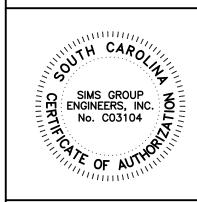
Jumper

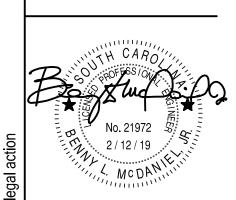
Carter

Sease

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RINKLER

DRAWN BY

COMM NO:

2/12/2019

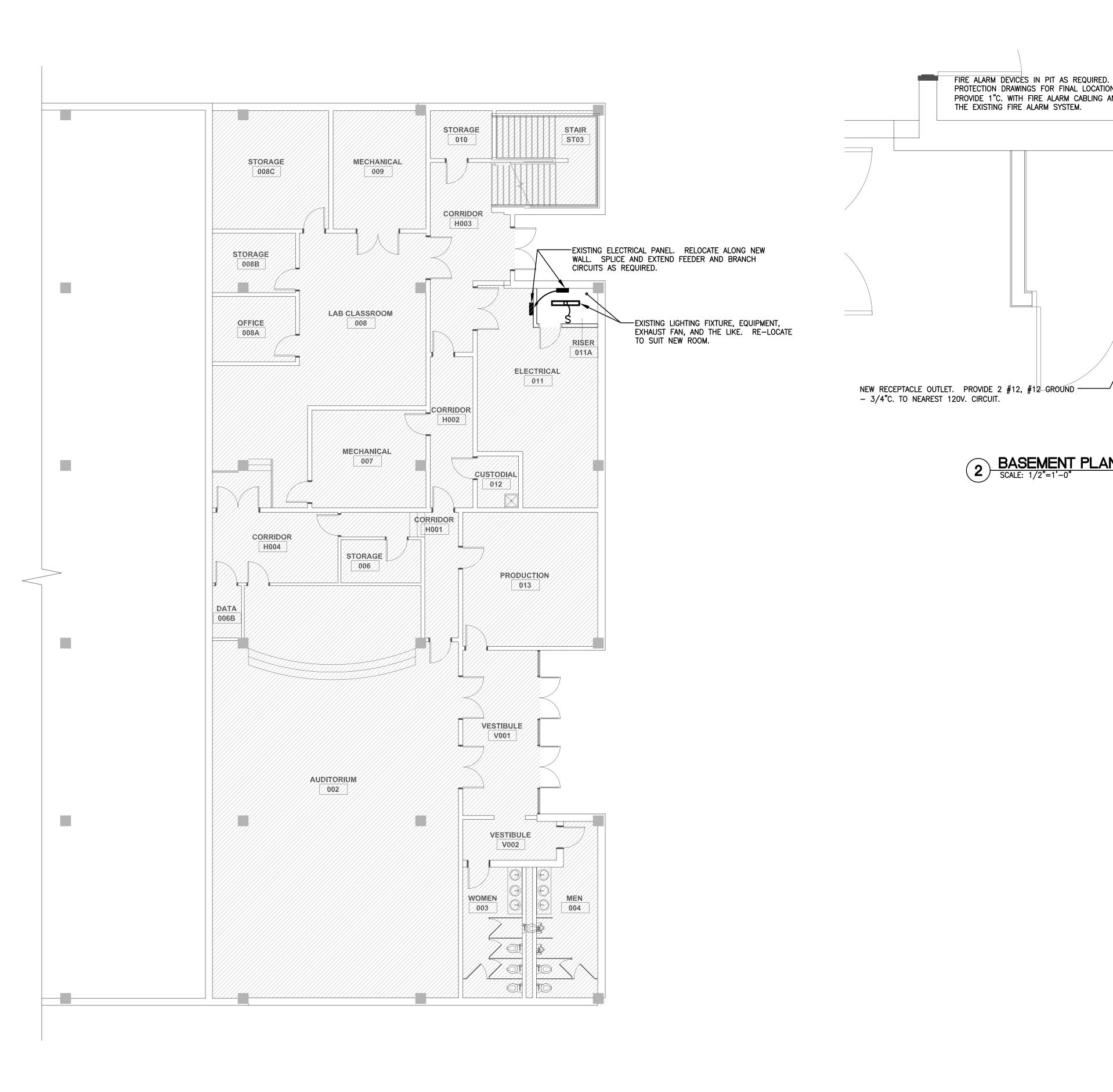
SHEET TITLE:

BASEMENT

POWER PLAN

SHEET NO:

E201



1 BASEMENT POWER PLAN
SCALE: 1/8"=1'-0"

Carter

Sease

ARCHITECTS

412 Meeting Street West Columbia South Carolina

DRAWN BY:

CHECKED BY:

COMM NO:

DATE: 2/12/2019

FIRST FLOOR FIRE ALARM PLAN

SHEET NO:

E501

