

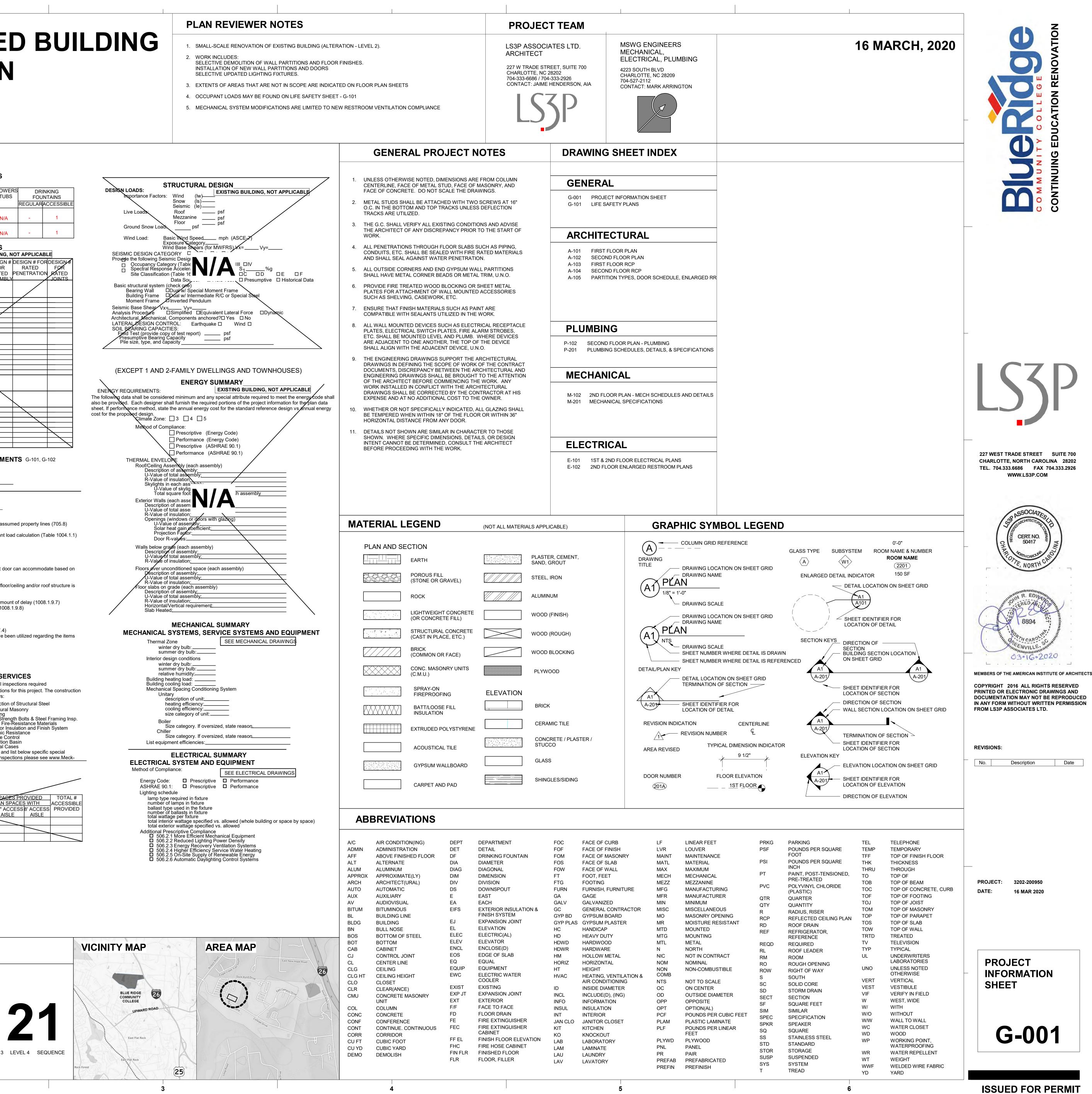
FLAT ROCK, NC 28731

BRCC CON ED BUILDING RENOVATION

3202-200950

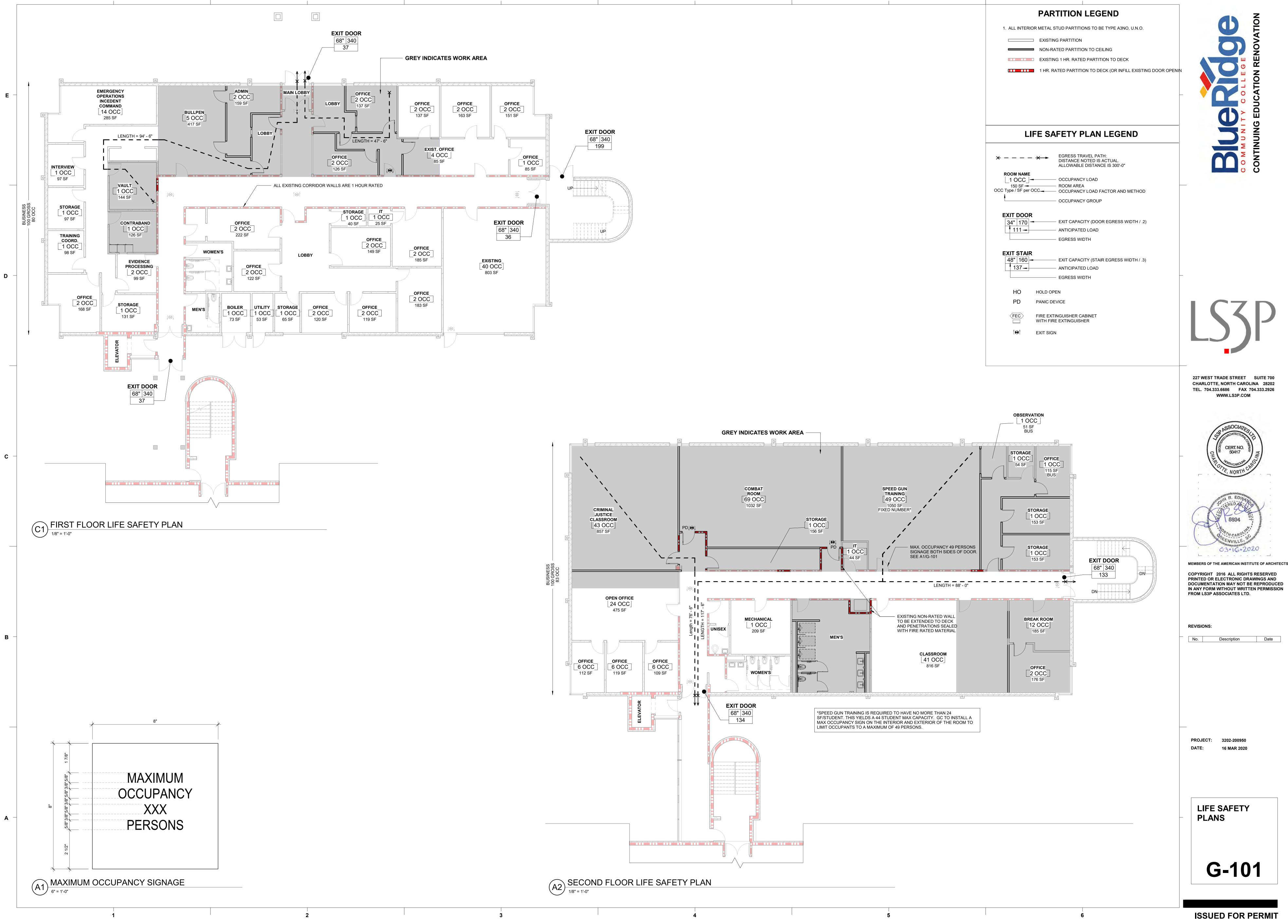
-	NORTH CAROLINA EXISTING BUILDING CODE	E - 2018 EDITION (APPENDIX B)
	Name of Project: CONTINUING EDUCATION RENOVATION Address: 180 W CAMPUS DR, FLAT ROCK, NC Zip Code 28731 Proposed Use: BUSINESS Owner or Authorized Agent: PETER HEMANSPhone #: 828-694-1723 E-Mail PETERH@ BLUERIDGE.EDU	PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) USE WATERCLOSETS LAVATORIES SHOW MALE FEMALE MALE FEMALE /TU
	Owned By: □ City/ County □ Private ■ State Code Enforcement Jurisdiction □ City ■ County <u>HENDERSON</u> □ State	1ST FLOOR BUSINESS11-12N/
	PROJECT SUMMARY Building description: Interior renovation of 7,200 SF of space within an existing administration building	2ND FLOOR 1 1 3 3 3 N
	Scope of work details: Work to include the renovation of exising office configuration (including finishes) and installation of new plumbing fixtures.	
	LEAD DESIGN PROFESSIONAL: LS3P ASSOCIATES, LTD. DESIGNER FIRM NAME LICENSE# TELEPHONE# E-MAIL Architectural LS3P Associates, LTD. JOHN EDWARDS 8894 864 235 0405 JOHNEDWARDS@LS3P.COM Civil N/A MSWG Engineers, Inc. MARK ARRINGTON 12490 704 527 2112 MARRINGTON@MSWG.COM	BUILDING ELEMENT FIRE RATING DETAIL # DESIG BUILDING ELEMENT SEPARATION Provided AND FOR DISTANCE Req'd (w/* SHEET # RATE (FEET) Reduction) ASSEM
	Fire Alarm MSWG Engineers, Inc. craig champion 17250 704 527 2112 cchampion@mswg.com Mechanical MSWG Engineers, Inc. craig champion 17250 704 527 2112 cchampion@mswg.com	girders, trusses Bearing walls Exterior North
	Sprinkler-Standpipe N/A	East West South Interior
D —	Other 2015 EDITION OF NC CODE FOR: New Construction Addition Upfit EXISTING: Reconstruction Alteration Repair Renovation CONSTRUCTED(date) 1975 ORIGINAL USE(S) (Ch. 3): BUSINESS CURRENT USE(S) (Ch. 3): BUSINESS RENOVATED: (date) 2002 CURRENT USE(S) (Ch. 3): BUSINESS	Nonbearing walls and partitions Exterior walls North East West South Interior walls and partitions
	BASIC BUILDING DATA Construction Type: I-A II-A III-A IV V-A (check all that apply) I-B II-B III-B V-B Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D Check all that apply) III-B III-B III-B III-B III-B III-B	Floor Construction Including supporting beams and joists Roof construction Including supporting beams and joists Shaft Enclosures-Exit Shaft Enclosures-Other
	Standpipes: No Yes Class: I II III III	Corridor Separation Occupancy Separation Occupancy Separation Image: Constraint of the separation Party/Fire Wall Separation Image: Constraint of the separation Smoke Barrier Separation Image: Constraint of the separation Tepant Separation Image: Constraint of the separation Indicate Section number permitting reduction
	1st Floor 7,968 7,968 7,968 TOTAL 16,242 16,242 16,242 ALLOWABLE AREA Occupancy: Assembly A-1 □ A-2 □ A-3 □ A-5 Business Educational □ □ □ □ □	LIFE SAFETY SYSTEM REQUIREM Emergency Lighting: No Exit Signs: No Fire Alarm: No Smoke Detection Systems: No Panic Hardware: No
	Factory F-1 Moderate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM Institutional I-1 I-2 I-3 Condition: 1 2 3 4 5 Mercantile Residential R-1 R-2 R-3 R-4	LIFE SAFETY PLAN REQUIREMENTS Life Safety Plan Sheet #:G-101 Fire and/or smoke rated wall locations (Chapter 7) N/A Assumed and real property line locations N/A Exterior wall opening area with respect to distance to as N/A Existing structures within 30' of the proposed building
c –	Storage S-1 Moderate S-2 Low High-Piled Parking Garage Open Enclosed Repair Garage Utility and Miscellaneous Accessory Occupancies: Assembly A-1 A-2 A-3	Occupancy types for each area as it relates to occupant Occupant loads for each area Exit access travel distances (1016) Common path of travel distances (1014.3 & 1028.8) Dead end lengths (1018.4) Clear exit widths for each exit door Maximum calculated occupant load capacity each exit of
	Business Educational Factory Factory H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM Institutional I-1 I-2 I-3 I-4 I-3 Condition: 1 2 I I I I I I I I I I	 egress width (1005.1) Actual occupant load for each exit door A separate schematic plan indicating where fire rated flot N/A provided for purposes of occupancy separation Location of doors with panic hardware (1008.1.10) N/A Location of doors with delayed egress locks and the am
	Mercantile □ Residential □R-1 □R-2 □R-3 □R-4 Storage □S-1 Moderate □S-2 Low □High-Piled □Parking Garage □Open □Enclosed □Repair Garage Utility and Miscellaneous □	 Location of doors with electromagnetic egress locks (100 N/A Location of doors equipped with hold-open devices Location of emergency escape windows (1029) N/A The square footage of each fire area (902) N/A The square footage of each smoke compartment (407.4 Note any code exceptions or table notes that may have above
	 Mixed Occupancy: ■ No □ Yes Separation: Exception: □ Incidental Use Separation (508.2.5) This separation is not exempt as a Non-Separated Use (see exceptions). □ Non-Separated Use (508.3) □ The required type of construction for the building shall be determined by applying the height a limitations for each of the applicable occupancies to the entire building. The most restrictive type 	vpe of
	construction, so determined, shall apply to the entire building. □ Separated Use (508.4) - See below for area calculations For each story, the area of the occupancy shall be such that the sum of the ratios of the actual area of each use divided by the allowable floor area for each use shall not exceed 1. <u>Actual Area of Occupancy A</u> + <u>Actual Area of Occupancy B</u> ≤ 1 Allowable Area of Occupancy A Allowable Area of Occupancy B + = + = ≤ 1.00	 ■ No special inspections required for this project □ Special inspections required schedule of special inspection divisions which require special inspections for this project are as follows: □ IT-1 Verification of Soils □ IT-10 Inspection □ IT-2 Excavation and Fill □ IT-12 Welding □ IT-4 Modular Retaining Walls □ IT-13 High St
	(A) (B) 5 (C) (D) (E) (F STORY NO AND USE PER STORY AREA OPEN SPACESPRINKLER AREA OR 3BUILT (ACTUAL) AREA OPEN SPACESPRINKLER AREA OR 3BUILT INCREASE INCREASE UNLIMITED ARE	IT-5 Reinforced Concrete IT-14 Spray F IT-6 Post Tension Slab IT-15 Exterior IT-7 Pre-cast Concrete Erection IT-16 Seismic IT-7 Smoke IT-8 Pre-Stressed Concrete IT-17 Smoke IT-9 Inspection of Pre-cast Fabricators IT-18 Detentio IT-19 Special Check the above boxes for the special inspection required for this project a
В —	EXISTING BUILDING, NOT APPLICABLE	inspections required under Chapter 17. For questions regarding Special Ins SI.com. LOT OR PARKING AREA
	¹ Frontage area increases from Section 506.2 are computed thus:	ACCESSIBLE PARKING (SECTION 1106)
	 a. Perimeter which fronts a public way or open space having 20 feet minimum width. (F).Total Building Perimeter =(P). c. Ratio (F/P) = (F/P). d. W = Minimum width of public way =(W). 	TOTAL # OF PARKING SPACES # OF ACCESSIBLE SPACES TOTAL REQUIRED PROVIDED REGULAR WITH 5 VAN TOTAL REQUIRED PROVIDED REGULAR WITH 5 VAN
	e. Percent of frontage increas ² The sprinkler increase per Secti a. Multi-story building $\frac{1}{5} = 200$ b. Single story building $\frac{1}{5} = 30$	
	³ Unlimited area applicable under ns 507. ⁴ Maximum Building Area = total number of stories in the building x E (506.4). ⁵ The maximum area of open parking garages must comply with Table 406.3.5. The maximum area of air traffic control towers must comply with Table 412.1.2. ALLOWABLE HEIGHT	
	ALLOWABLE HEIGHT ALLOWABLE INCREASE FOR SPRINKLERS SPRINKLERS Type of Construction Type	E
	Building Height in Feet Feet = H + 20' = Building Height in Stories Stories + 1=	Z
-	UDS SHEET DESIGNATORS AND SHEET ORDE	R
Α –	LEVEL 1 - DISCIPLINE DESIGNATORS	
	G GENERAL F FIRE PROTECTION 0 GENERAL / OVERALL H HAZARDOUS MATERIALS P PLUMBING 1 PLANS V SURVEY / MAPPING M MECHANICAL 2 ELEVATIONS R CEOTECHNICAL E ELECTRICAL 3 SECTIONS	 0 DEMOLITION PLAN 1 CONSTRUCTION PLAN 2 REFLECTED CEILING PLAN 3 EINISH PLAN
	B GEOTECHNICAL E ELECTRICAL 3 SECTIONS C CIVIL T TELECOM 4 LARGE SCALE VIEWS L LANDSCAPE R RESOURCE 5 DETAILS	 3 FINISH PLAN 4 FURNITURE PLAN 5 OUTLET LOCATION PLAN
	SSTRUCTURAL6SCHEDULES & DIAGRAMSAARCHITECTURAL7USER DEFINEDIINTERIORS8USER DEFINED	 6 EQUIPMENT PLAN 7 INTERIOR SIGNAGE 8 ACCESS FLOOR GRID PLAN
	Q EQUIPMENT 9 3D REPRESENTATIONS	9 BUILDING AUTOMATION PLAN LEVEL 1 LEVEL 2 LEVEL 3

- SELECTIVE DEMOLITION OF WALL PARTITIONS AND FLOOR FINISHES.

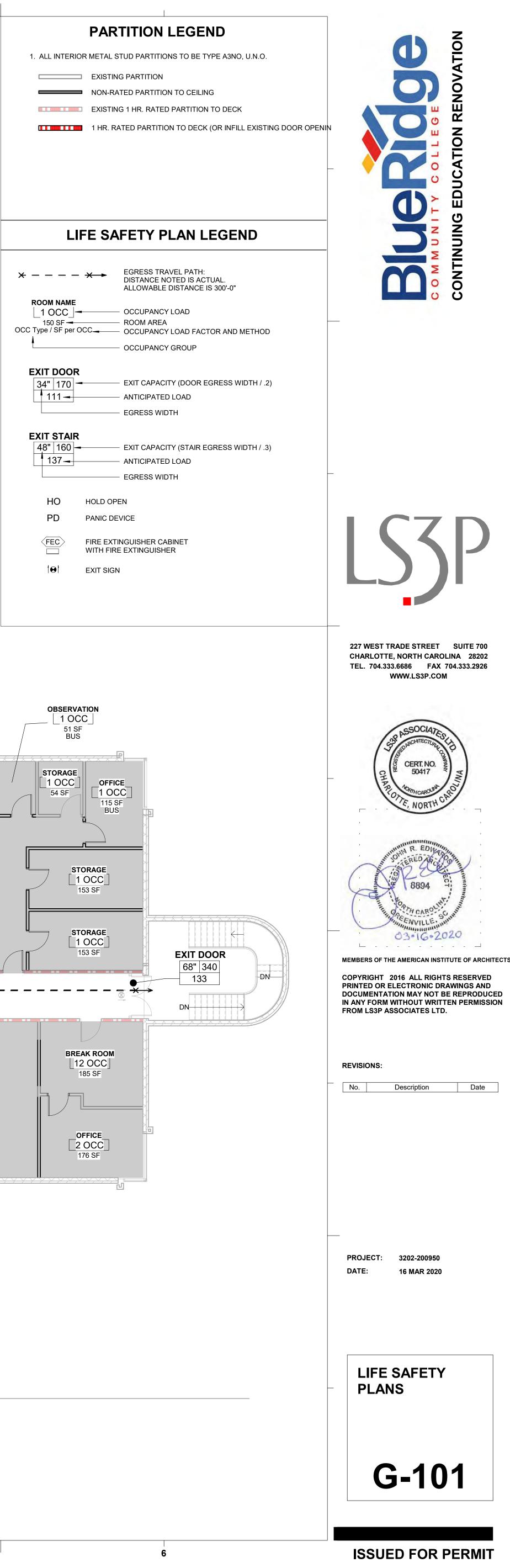


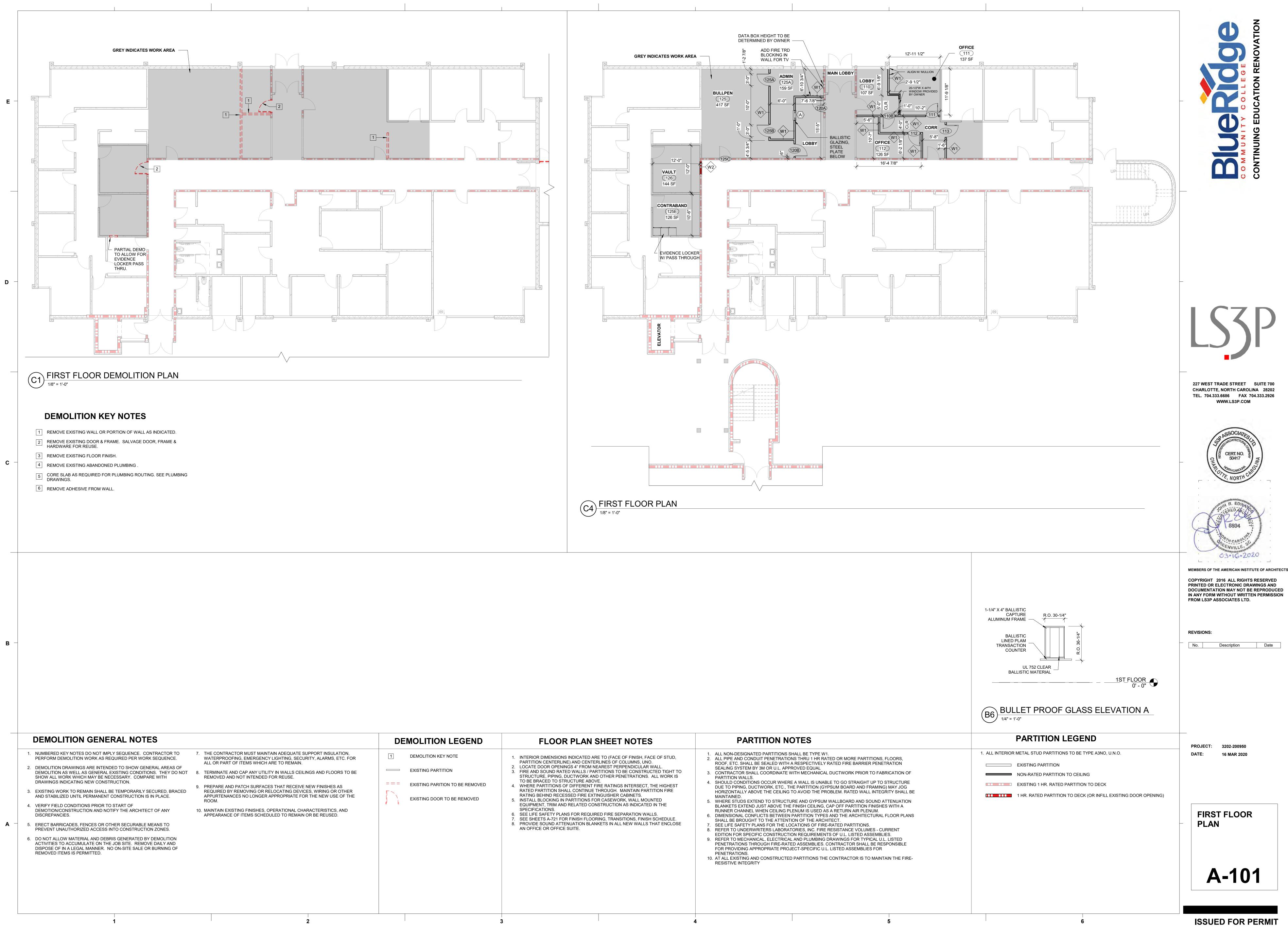
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	DEPARTMENT	FOC	FACE OF CURB	LF	LINEAR FEET	PRKG	PARKING	TEL	TELEPHONE
	DETAIL	FOF	FACE OF FINISH	LVR	LOUVER	PSF	POUNDS PER SQUARE	TEMP	TEMPORARY
	DRINKING FOUNTAIN	FOM	FACE OF MASONRY	MAINT	MAINTENANCE		FOOT	TFF	TOP OF FINISH F
	DIAMETER	FOS	FACE OF SLAB	MATL	MATERIAL	PSI	POUNDS PER SQUARE	THK	THICKNESS
	DIAGONAL	FOW	FACE OF WALL	MAX	MAXIMUM	DT		THRU	THROUGH
	DIMENSION	FT	FOOT, FEET	MECH	MECHANICAL	PT	PAINT, POST-TENSIONED, PRE-TREATED	TO	TOP OF
	DIVISION	FTG	FOOTING	MEZZ	MEZZANINE	PVC	POLYVINYL CHLORIDE	тов	TOP OF BEAM
	DOWNSPOUT	FURN	FURNISH, FURNITURE	MFG	MANUFACTURING	FVC	(PLASTIC)	TOC	TOP OF CONCRE
	EAST	GA	GAGE	MFR	MANUFACTURER	QTR	QUARTER	TOF	TOP OF FOOTIN
	EACH	GALV	GALVANIZED	MIN	MINIMUM	QTY	QUANTITY	TOJ	TOP OF JOIST
	EXTERIOR INSULATION &	GC	GENERAL CONTRACTOR	MISC	MISCELLANEOUS	R	RADIUS, RISER	ТОМ	TOP OF MASON
	FINISH SYSTEM	GYP BD	GYPSUM BOARD	MO	MASONRY OPENING	RCP	REFLECTED CEILING PLAN	TOP	TOP OF PARAPE
	EXPANSION JOINT		GYPSUM PLASTER	MR	MOISTURE RESISTANT	RD	ROOF DRAIN	TOS	TOP OF SLAB
	ELEVATION	HC	HANDICAP	MTD	MOUNTED	REF	REFRIGERATOR,	TOW	TOP OF WALL
	ELECTRIC(AL)	HD	HEAVY DUTY	MTG	MOUNTING		REFERENCE	TRTD	TREATED
		HDWD	HARDWOOD	MTL	METAL	REQD	REQUIRED	TV	TELEVISION
	ENCLOSE(D)	HDWR	HARDWARE	Ν	NORTH	RL	ROOF LEADER	TYP	TYPICAL
	EDGE OF SLAB	HM	HOLLOW METAL	NIC	NOT IN CONTRACT	RM	ROOM	UL	UNDERWRITERS
_	EQUAL	HORIZ	HORIZONTAL	NOM	NOMINAL	RO	ROUGH OPENING		LABORATORIES
)	EQUIPMENT	HT	HEIGHT	NON	NON-COMBUSTIBLE	ROW	RIGHT OF WAY	UNO	UNLESS NOTED OTHERWISE
	ELECTRIC WATER COOLER	HVAC	HEATING, VENTILATION &	COMB		S	SOUTH	VERT	VERTICAL
-	EXISTING	15		NTS	NOT TO SCALE	SC	SOLID CORE	VEST	VESTIBULE
т	EXPANSION JOINT	ID			ON CENTER	SD	STORM DRAIN	VIF	VESTIBULE VERIFY IN FIELD
1	EXTERIOR	INCL	INCLUDE(D), (ING)	OD	OUTSIDE DIAMETER	SECT	SECTION	W	WEST, WIDE
	FACE TO FACE	INFO		OPP	OPPOSITE	SF	SQUARE FEET	W/	WEST, WIDE WITH
	FLOOR DRAIN	INSUL	INSULATION INTERIOR	OPT PCF	OPTION(AL)	SIM	SIMILAR	W/O	WITHOUT
	FIRE EXTINGUISHER				POUNDS PER CUBIC FEET	SPEC	SPECIFICATION	W/W	WALL TO WALL
	FIRE EXTINGUISHER	JAN CLO KIT	JANITOR CLOSET KITCHEN	PLAM PLF	PLASTIC LAMINATE POUNDS PER LINEAR	SPKR	SPEAKER	WC	WATER CLOSET
	CABINET	KO	KNOCKOUT	PLF	FEET	SQ	SQUARE	WD	WOOD
	FINISH FLOOR ELEVATION	LAB	LABORATORY	PLYWD	PLYWOOD	SS	STAINLESS STEEL	WP	WORKING POINT
	FIRE HOSE CABINET	LAB LAM	LAMINATE	PNL	PANEL	STD	STANDARD		WATERPROOFIN
R	FINISHED FLOOR	LAM	LAUNDRY	PR	PAIR	STOR	STORAGE	WR	WATER REPELLI
	FLOOR, FILLER	LAU LAV	LAVATORY	PREFAB	PREFABRICATED	SUSP	SUSPENDED	WT	WEIGHT
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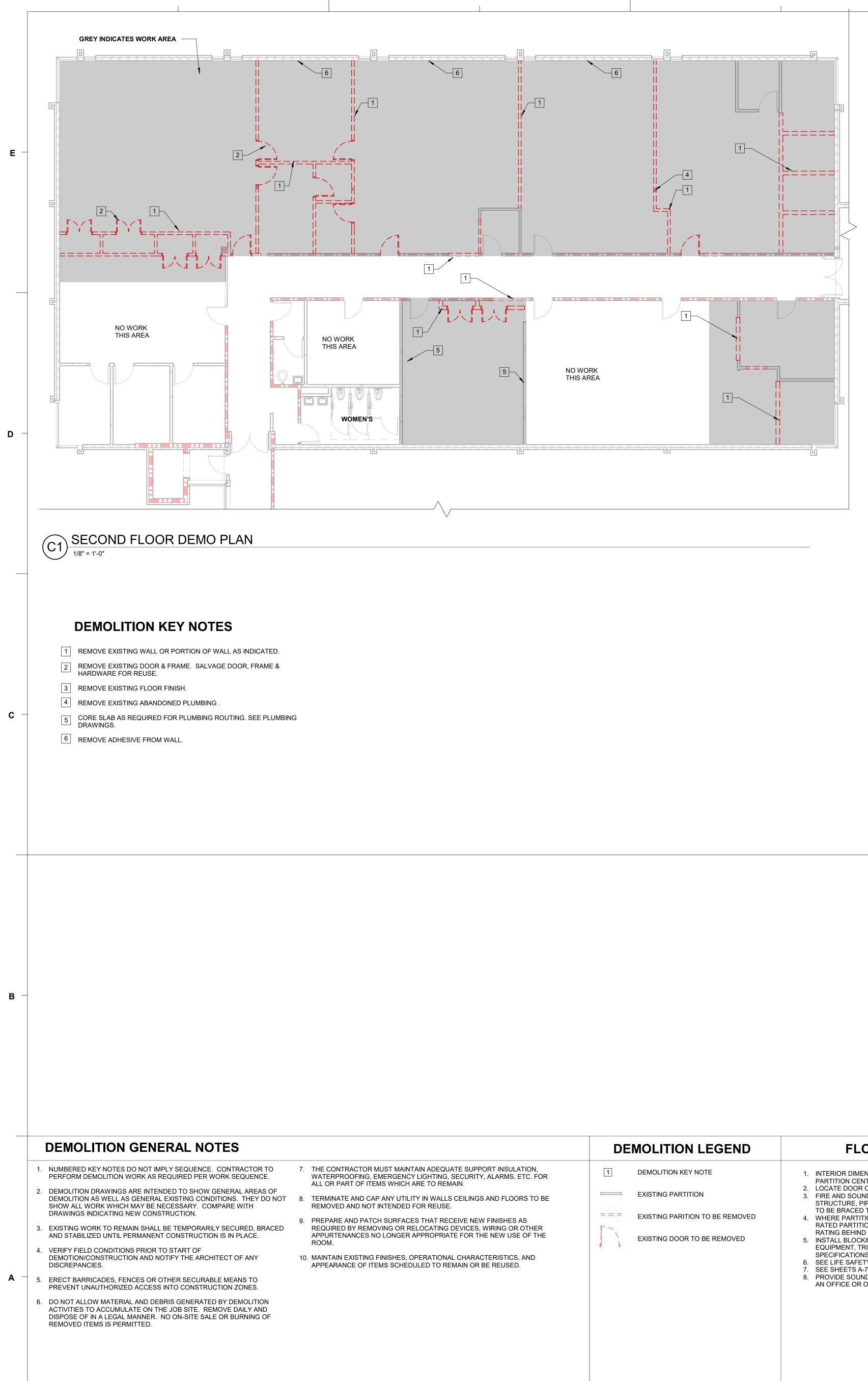


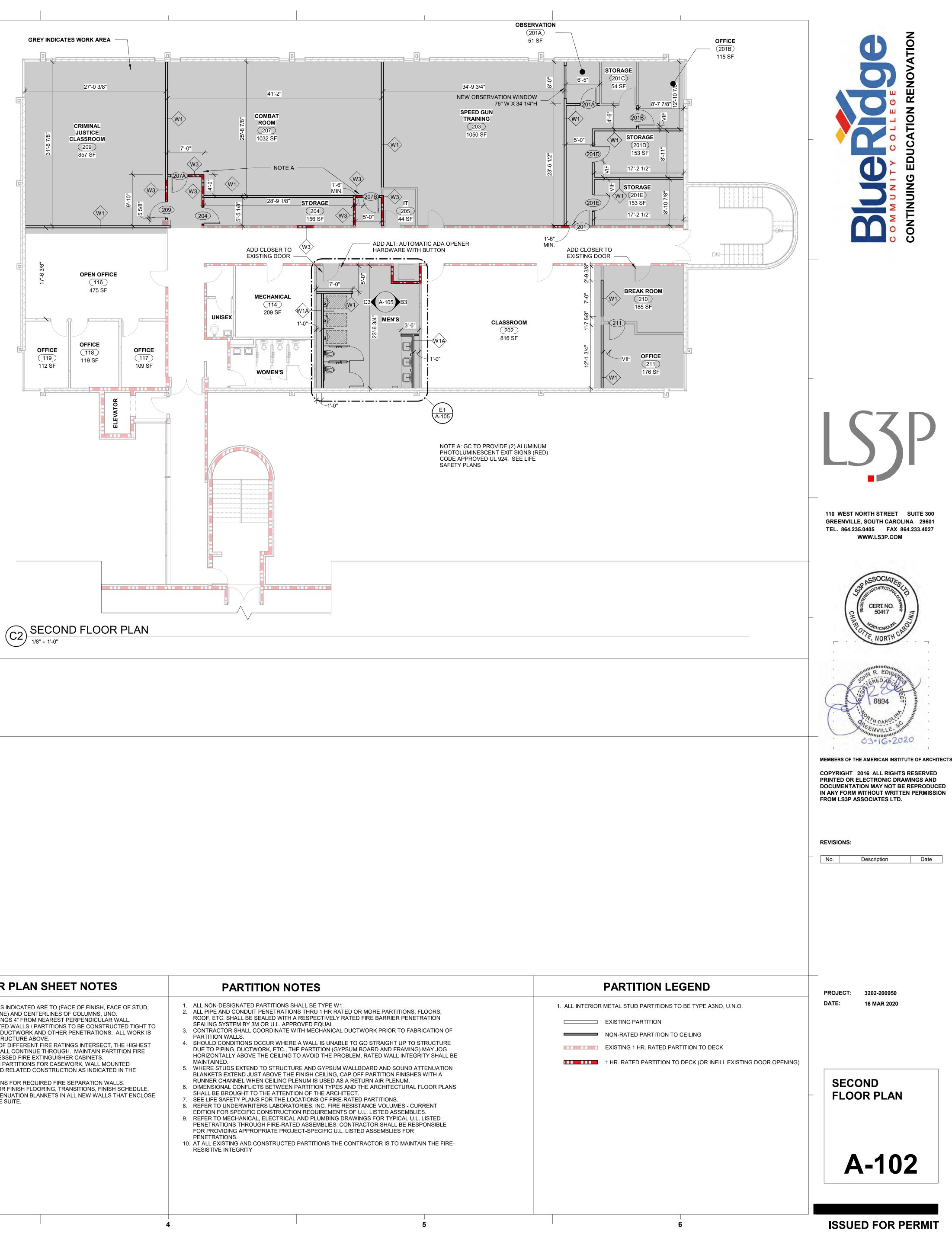
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DEMOLITION LEGEND FLOOR PLAN SHEET NOTES	PARTI
Image:	L NON-DESIGNATED L PIPE AND CONDUI OOF, ETC. SHALL BE EALING SYSTEM BY 3 ONTRACTOR SHALL ARTITION WALLS. HOULD CONDITIONS UE TO PIPING, DUCT ORIZONTALLY ABOVI AINTAINED. HERE STUDS EXTEN ANKETS EXTEND JL UNNER CHANNEL WH MENSIONAL CONFLI HALL BE BROUGHT T EE LIFE SAFETY PLAI EFER TO UNDERWRI DITION FOR SPECIFIC EFER TO MECHANIC/ ENETRATIONS THRO OR PROVIDING APPR ENETRATIONS. T ALL EXISTING AND ESISTIVE INTEGRITY



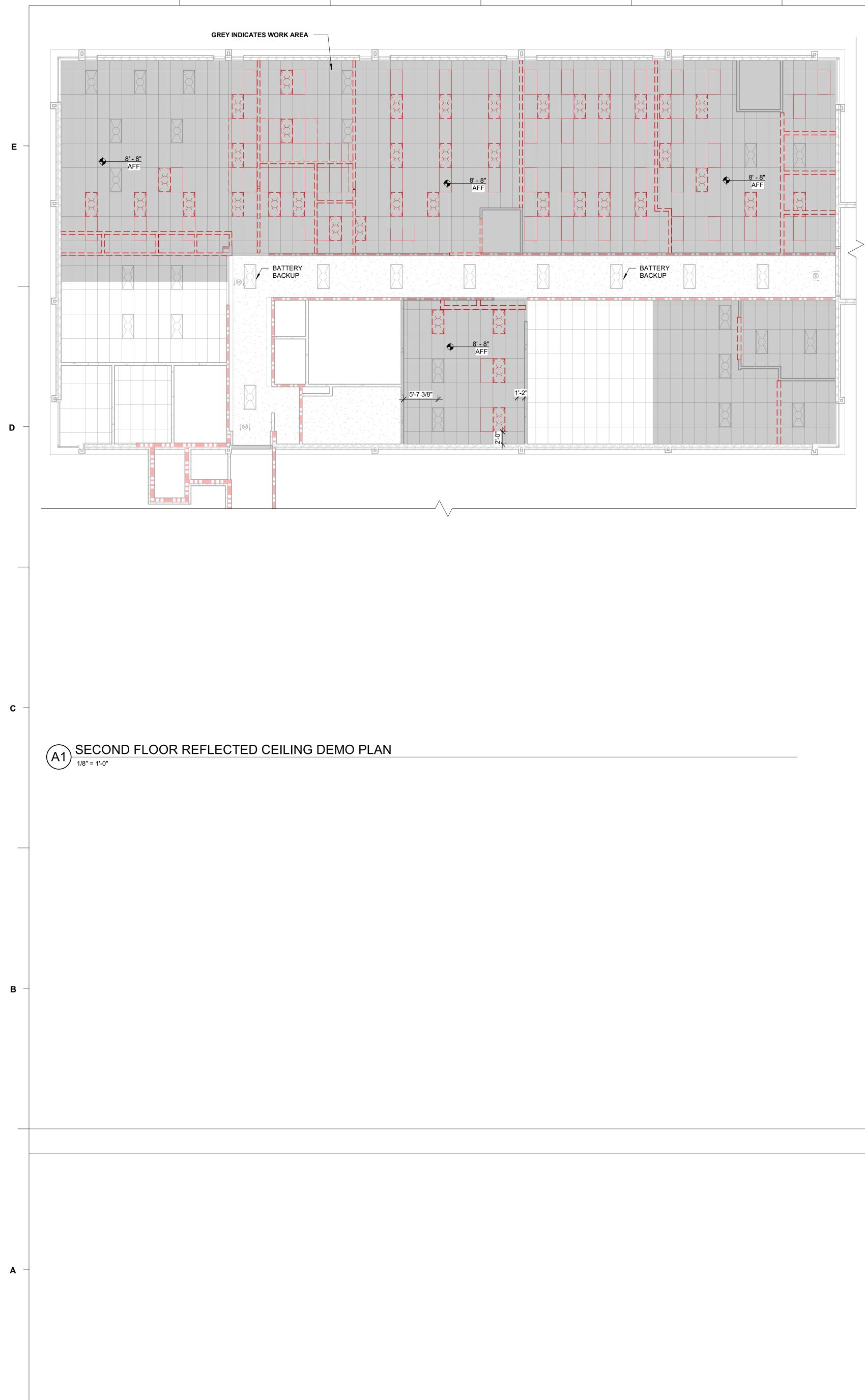


DEMOLITION LEGEND	FLOOR PLAN SHEET NOTES	PARTITION NOTES	PARTITION LEGEND
I DEMOLITION KEY NOTE EXISTING PARTITION EXISTING PARITION TO BE REMOVED Image: Comparison of the	 INTERIOR DIMENSIONS INDICATED ARE TO (FACE OF FINISH, FACE OF STUD, PARTITION CENTERLINE) AND CENTERLINES OF COLUMNS, UNO. LOCATE DOOR OPENINGS 4" FROM NEAREST PERPENDICULAR WALL. FIRE AND SOUND RATED WALLS / PARTITIONS TO BE CONSTRUCTED TIGHT TO STRUCTURE, PIPING, DUCTWORK AND OTHER PENETRATIONS. ALL WORK IS TO BE BRACED TO STRUCTURE ABOVE. WHERE PARTITIONS OF DIFFERENT FIRE RATINGS INTERSECT, THE HIGHEST RATED PARTITION SHALL CONTINUE THROUGH. MAINTAIN PARTITION FIRE RATING BEHIND RECESSED FIRE EXTINGUISHER CABINETS. INSTALL BLOCKING IN PARTITIONS FOR CASEWORK, WALL MOUNTED EQUIPMENT, TRIM AND RELATED CONSTRUCTION AS INDICATED IN THE SPECIFICATIONS. SEE LIFE SAFETY PLANS FOR REQUIRED FIRE SEPARATION WALLS. SEE SHEETS A-721 FOR FINISH FLOORING, TRANSITIONS, FINISH SCHEDULE. PROVIDE SOUND ATTENUATION BLANKETS IN ALL NEW WALLS THAT ENCLOSE AN OFFICE OR OFFICE SUITE. 	 ALL NON-DESIGNATED PARTITIONS SHALL BE TYPE W1. ALL PIPE AND CONDUIT PENETRATIONS THRU 1 HR RATED OR MORE PARTITIONS, FLOORS, ROOF, ETC. SHALL BE SEALED WITH A RESPECTIVELY RATED FIRE BARRIER PENETRATION SEALING SYSTEM BY 3M OR U.L. APPROVED EQUAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL DUCTWORK PRIOR TO FABRICATION OF PARTITION WALLS. SHOULD CONDITIONS OCCUR WHERE A WALL IS UNABLE TO GO STRAIGHT UP TO STRUCTURE DUE TO PIPING, DUCTWORK, ETC., THE PARTITION (GYPSUM BOARD AND FRAMING) MAY JOG HORIZONTALLY ABOVE THE CEILING TO AVOID THE PROBLEM. RATED WALL INTEGRITY SHALL BE MAINTAINED. WHERE STUDS EXTEND TO STRUCTURE AND GYPSUM WALLBOARD AND SOUND ATTENUATION BLANKETS EXTEND TO STRUCTURE AND GYPSUM WALLBOARD AND SOUND ATTENUATION BLANKETS EXTEND JUST ABOVE THE FINISH CEILING, CAP OFF PARTITION FINISHES WITH A RUNNER CHANNEL WHEN CEILING PLENUM IS USED AS A RETURN AIR PLENUM. DIMENSIONAL CONFLICTS BETWEEN PARTITION TYPES AND THE ARCHITECT. SEE LIFE SAFETY PLANS FOR THE LOCATIONS OF FIRE-RATED PARTITIONS. REFER TO UNDERWRITERS LABORATORIES, INC. FIRE RESISTANCE VOLUMES - CURRENT EDITION FOR SPECIFIC CONSTRUCTION REQUIREMENTS OF U.L. LISTED ASSEMBLIES. REFER TO MDERWRITERS LABORATORIES, INC. FIRE RESISTANCE VOLUMES - CURRENT EDITION FOR SPECIFIC CONSTRUCTION REQUIREMENTS OF OR TYPICAL U.L. LISTED PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE PROJECT-SPECIFIC U.L. LISTED ASSEMBLIES FOR PENETRATIONS. AT ALL EXISTING AND CONSTRUCTED PARTITIONS THE CONTRACTOR IS TO MAINTAIN THE FIRE- RESISTIVE INTEGRITY 	1. ALL INTERIOR METAL STUD PARTITIONS TO BE TYPE A3NO, U.N.O. EXISTING PARTITION NON-RATED PARTITION TO CEILING EXISTING 1 HR. RATED PARTITION TO DECK Image: Transmission of the second
	3	4 5	6

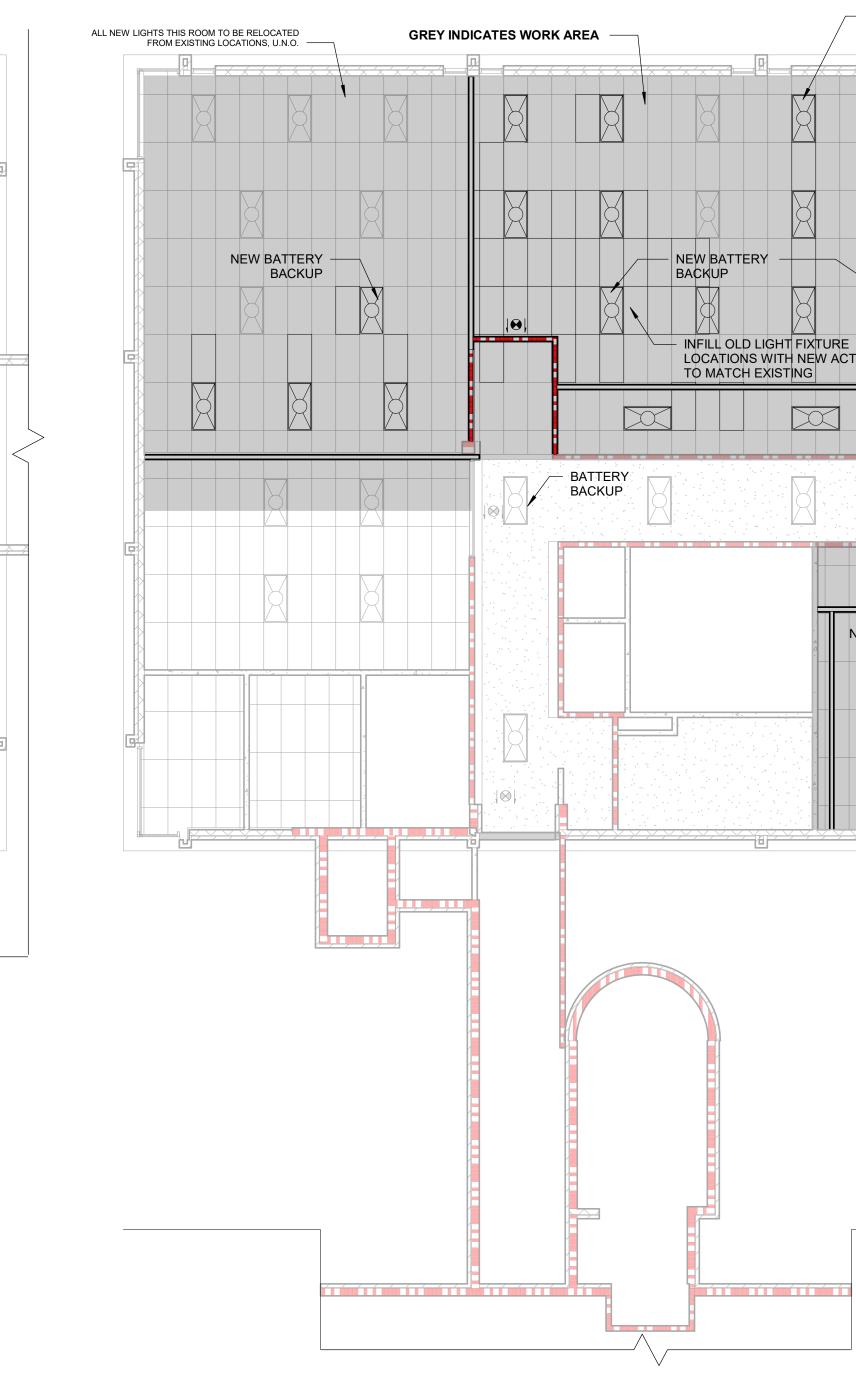


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RCP LEGEND	
Image: Descent of the second seco	F ABOVE FINISHED FI 9'-0" U.N.O.



C



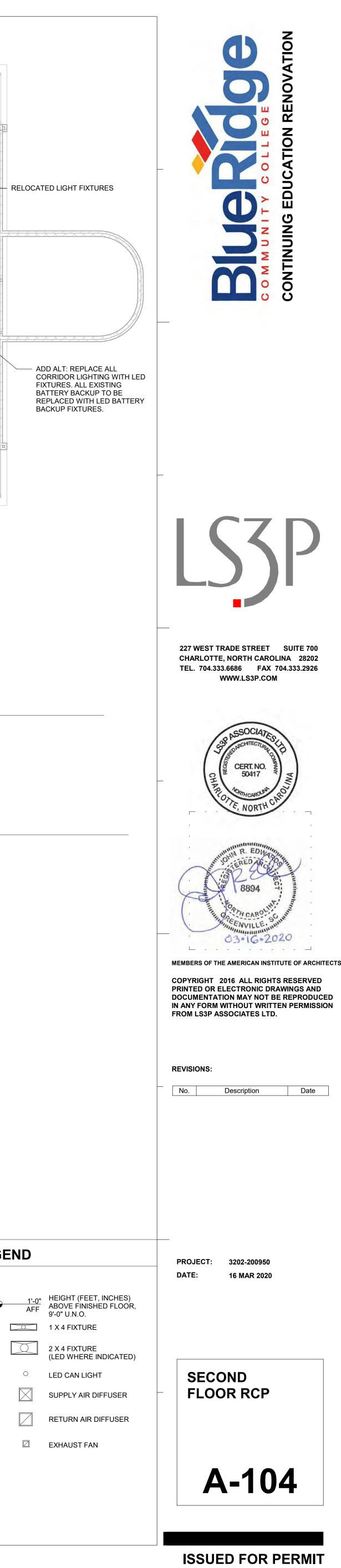
A2 SECOND FLOOR REFLECTED CEILING PLAN

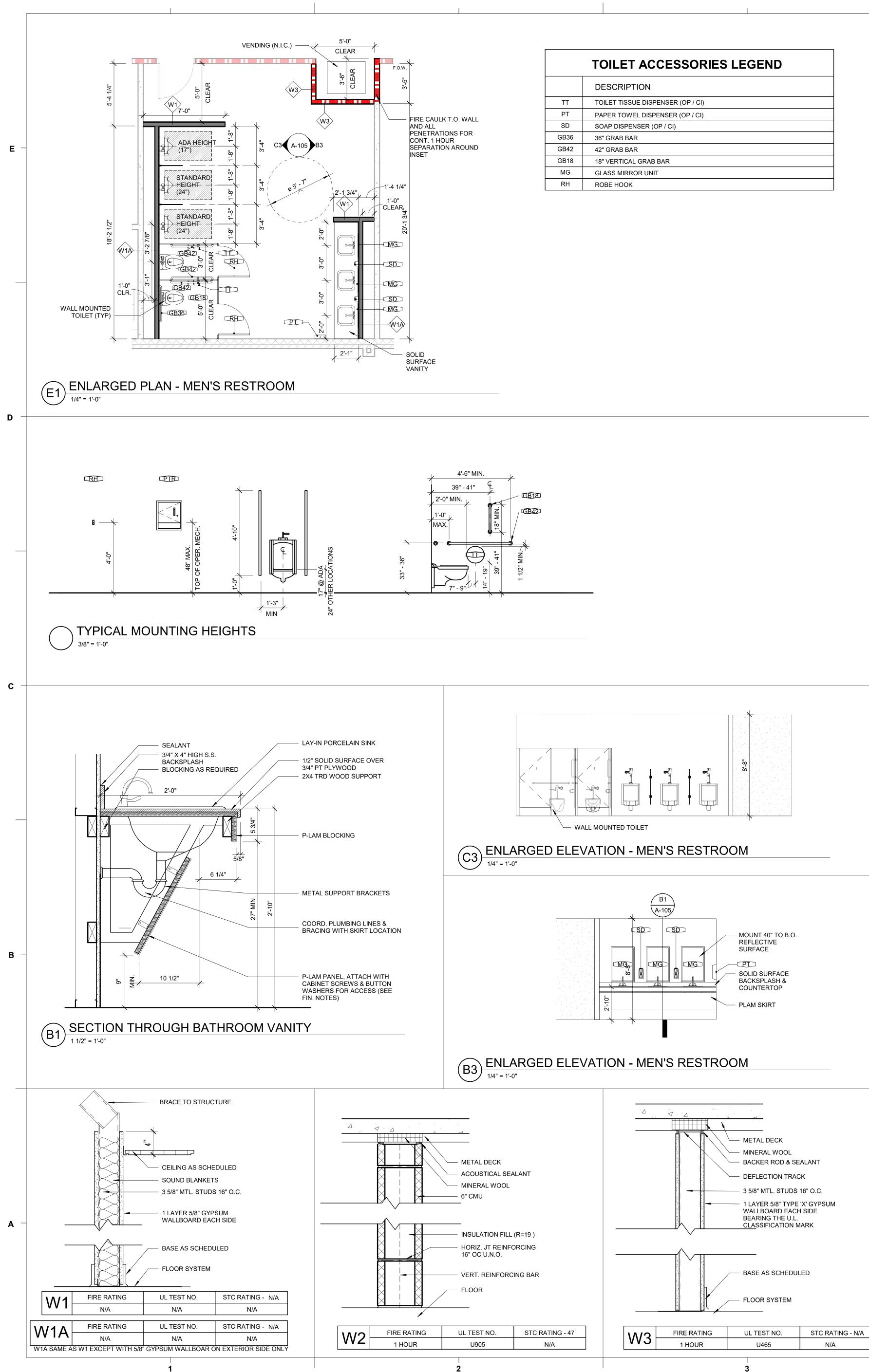
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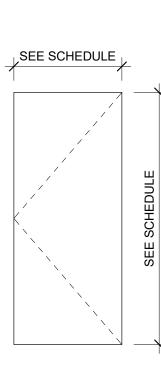
		ALL NEW LIGH TO BE RELOC EXISTING LOC	ATED FROI	М		ALL NEW 2> TO BE NEW				FIXTURE
	Ř		X							
NEW BATTERY - BACKUP										
INFILL OLD LIGH LOCATIONS WIT TO MATCH EXIS	H NEW AC	T SYSTEM								
					BATTER BACKU	RY. P.		BATTER BACKU	Y P	
		O O NEW BATTERY BACKUP -			TO BE AND P WITH	ING NON-RA EXTENDED PENETRATIO FIRE RATED GWB CEILING	TO DECK NS SEALED MATERIAL			

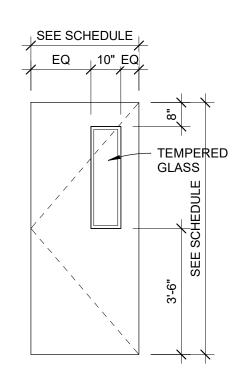
RCP LEGEND Image: Strate in the str		
GYPSUM BOARD 1 X 4 FIXTURE GYPSUM BOARD 1 X 4 FIXTURE D 2 X 4 FIXTURE LED WHERE INDIC 2 LED CAN LIGHT PAINTED 0 LED CAN LIGHT	RCP L	EGEND
	2X2 LAY-IN CEILING TILE (EXISTING) GYPSUM BOARD EXPOSED STRUCTURE - PAINTED	 <u>1'-0</u>" HEIGHT (FEET, INC ABOVE FINISHED F 9'-0" U.N.O. 1 X 4 FIXTURE 2 X 4 FIXTURE 2 X 4 FIXTURE (LED WHERE INDIC LED CAN LIGHT SUPPLY AIR DIFFUE RETURN AIR DIFFUE





	TOILET ACCESSORIES LEGEND
	DESCRIPTION
TT	TOILET TISSUE DISPENSER (OP / CI)
PT	PAPER TOWEL DISPENSER (OP / CI)
SD	SOAP DISPENSER (OP / CI)
GB36	36" GRAB BAR
GB42	42" GRAB BAR
GB18	18" VERTICAL GRAB BAR
MG	GLASS MIRROR UNIT
RH	ROBE HOOK





screws spaced 12 in. OC.

Last Updated on 2007-02-09

TYPE F

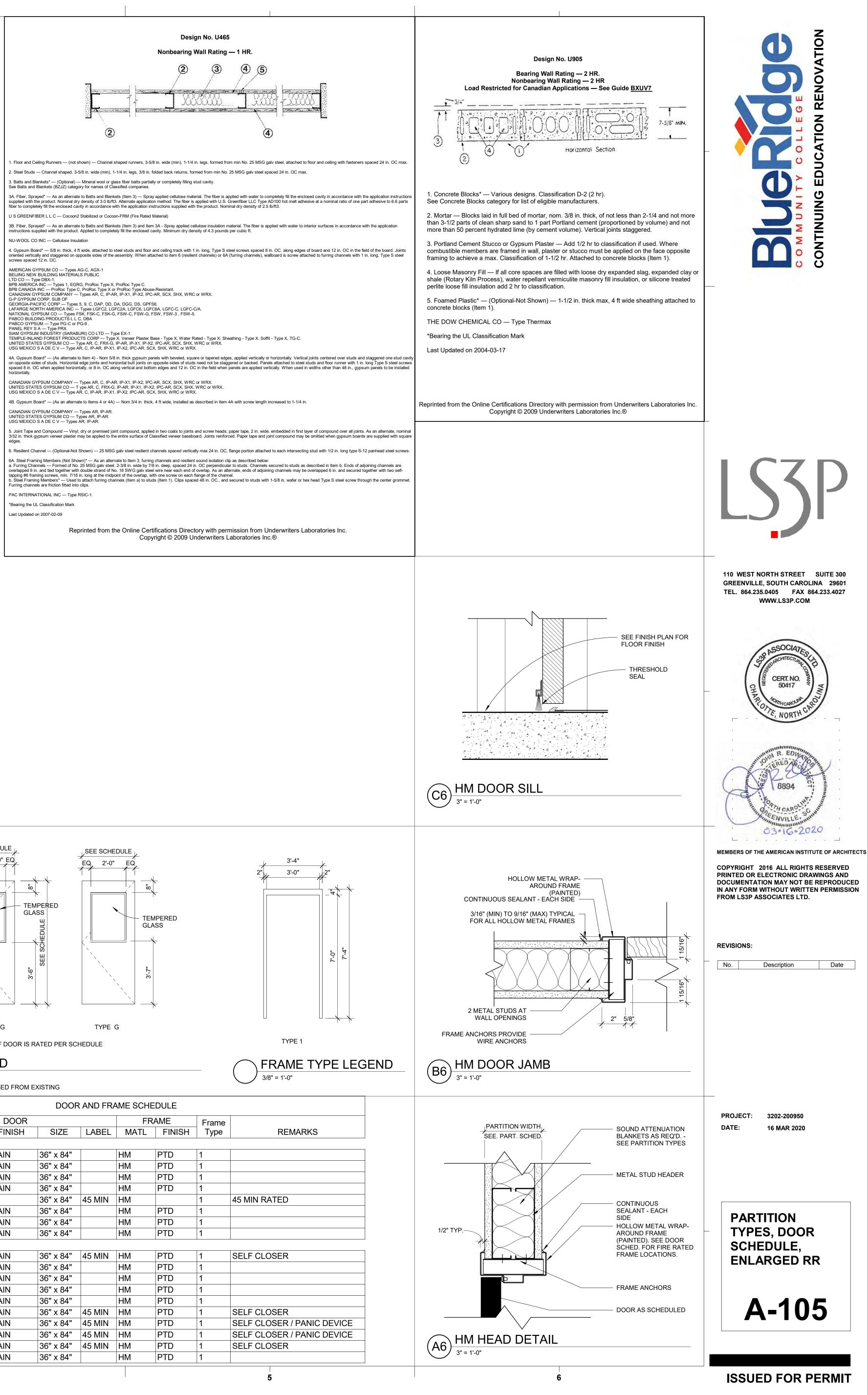
TYPE FG

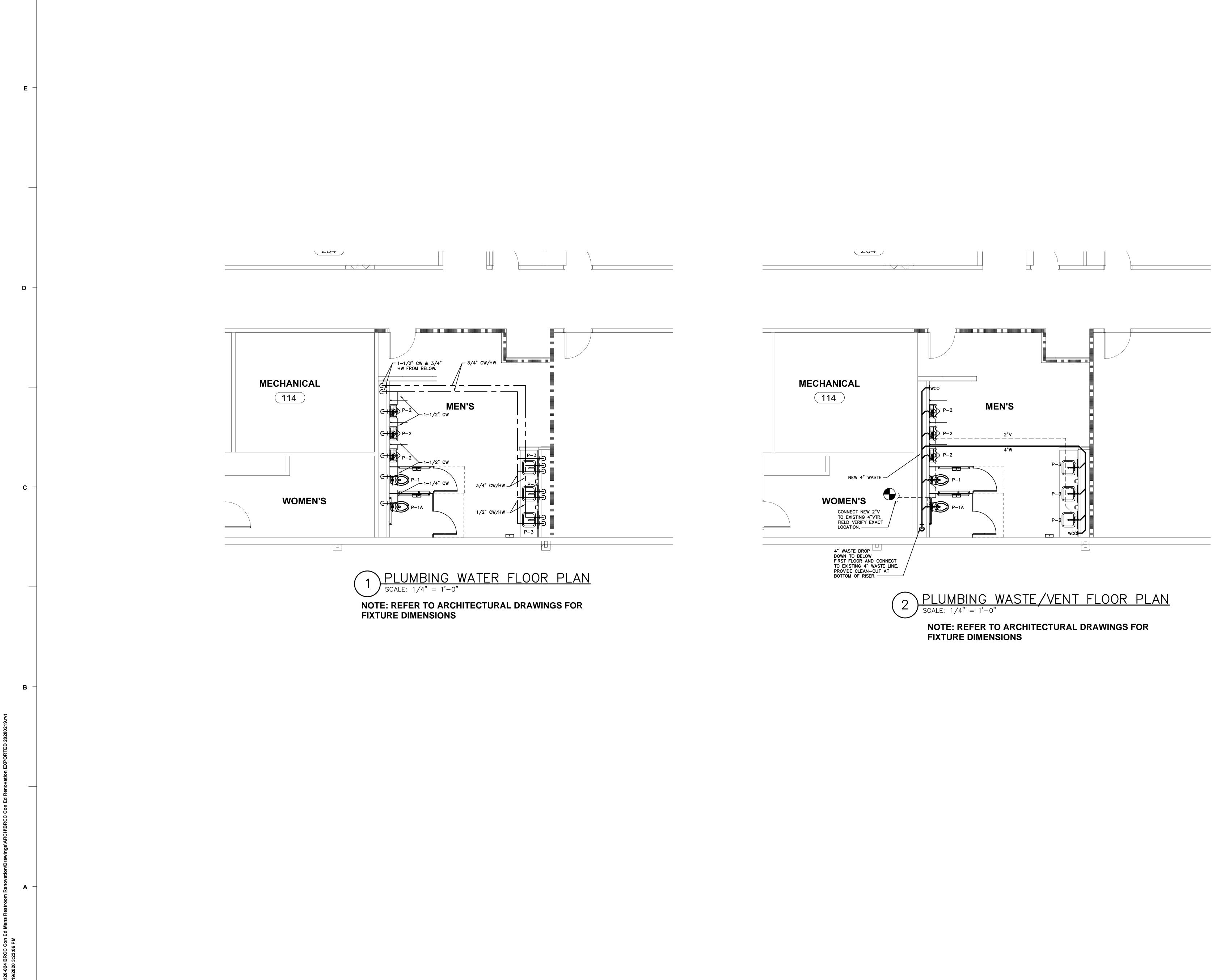
NOTE: GLASS TO BE RATED IF DOOR IS RATED PER SCHEDULE

DOOR TYPE LEGEND 3/8" = 1'-0"

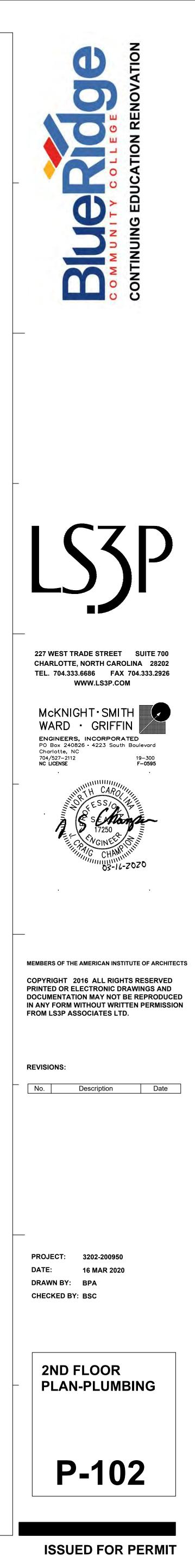
NOTE: ALL NON-RATED DOORS ARE REUSED FROM EXISTING

					DOC
	DOOR			DOOR	
	NUMBER	MATL	TYPE	FINISH	SIZE
_	1ST FLOOR				
	110B	WOOD	FG	STAIN	36" x 84'
	111	WOOD	FG	STAIN	36" x 84'
	112	WOOD	FG	STAIN	36" x 84'
-	113	WOOD	FG	STAIN	36" x 84'
	120A	MTL	G		36" x 84'
	120B	WOOD	F	STAIN	36" x 84'
	125A	WOOD	F	STAIN	36" x 84'
	125B	WOOD	F	STAIN	36" x 84'
	2ND FLOOF	R			
4	201	WOOD	F	STAIN	36" x 84'
ľ	201A	WOOD	F	STAIN	36" x 84'
	201B	WOOD	F	STAIN	36" x 84'
	201D	WOOD	F	STAIN	36" x 84'
	201E	WOOD	F	STAIN	36" x 84'
	204	WOOD	F	STAIN	36" x 84'
	207A	WOOD	FG	STAIN	36" x 84'
	207B	WOOD	FG	STAIN	36" x 84'
	209	WOOD	FG	STAIN	36" x 84'
4	211	WOOD	F	STAIN	36" x 84'





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	SCOPE THE CONTRACTOR SHALL COORDINATE THE WORK AND EQUIPMENT OF THIS DIVISION WITH THE WORK AND EQUIPMENT SPECIFIED ELSEWHERE TO ASSURE A COMPLETE AND SATISFACTORY INSTALLATION. WORK SUCH AS EXCAVATION, BACKFILL, CONCRETE, FLASHING, WIRING, ETC., REQUIRED BY THE WORK OF THIS SECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE SECTION SPECIFICATIONS.
	IT IS THE INTENTION OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. WHEN WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE". THE WORD "PROVIDE" MEANS FURNISH, FABRICATED, COMPLETE, INSTALL, ERECT, INCLUDING LABOR AND INCIDENTAL MATERIALS NECES COMPLETE IN PLACE AND READY FOR OPERATION OR USE THE ITEM REFERRED TO OR DESCRIBED HEREIN AND/OR SHOWN OR REFERRED TO CONTRACT DRAWINGS.
	EQUIPMENT APPLICATION AND PERFORMANCE THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL BE RESPONSIBLE TO SEE THAT EQUIPMENT SUPPLIED IS CORRECT FOR THE APPLICATION AND WILL PERFORM WITHIN THE LIMITS OF CAPACITY, NOISE, LIFE EXPECTANCY, PRESSURE DROP AND SPACE LIMITATIONS INTE THAT EQUIPMENT AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIFICATIONS. THE SHOP DRAWINGS SHALL SHOW THE CAPA OPERATING CHARACTERISTICS OF THE EQUIPMENT.
	WHERE THE CONTRACTOR PROPOSES TO USE AN ITEM OF EQUIPMENT OTHER THAN THAT SPECIFIED OR DETAILED ON THE DRAWING REQUIRES ANY REDESIGN OF THE STRUCTURE, PARTITIONS, FOUNDATIONS, PIPING, WIRING OR ANY OTHER PART OF THE MECHANICAL, ELECT ARCHITECTURAL LAYOUT, ALL SUCH REDESIGN, AND ALL NEW DRAWINGS AND DETAILING REQUIRED THEREFORE, SHALL BE PREPARED SUBCONTRACTOR AT HIS OWN EXPENSE AND SUBMITTED FOR APPROVAL BY THE ARCHITECT.
	WHERE SUCH APPROVED DEVIATION REQUIRES A DIFFERENT QUANTITY AND ARRANGEMENT OF DUCTWORK, PIPING, WIRING, CONDUIT, AND E FROM THAT SPECIFIED OR INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL FURNISH AND INSTALL ANY SUCH DUCTWORK, PIPING, ST SUPPORTS, INSULATION, CONTROLLERS, MOTORS, STARTERS, ELECTRICAL WIRING AND CONDUIT, AND ANY OTHER ADDITIONAL EQUIPMENT REC THE SYSTEM, AT NO ADDITIONAL COST TO THE OWNER.
-	DIELECTRIC CONNECTIONS DIELECTRIC CONNECTIONS SHALL BE USED AT ANY POINTS WITHIN THE PIPING SYSTEMS WHERE DISSIMILAR METALS MEET. CAREFUL A SHALL BE GIVEN TO SUPPORT BRACKETS AND HANGERS TO SELECT PROPER MATERIALS TO AVOID DISSIMILAR METAL CONTACT AT THESE PO DUTIES OF CONTRACTOR
	CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS CALLED FOR IN THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS, A FURNISH THE APPARATUS COMPLETE IN EVERY RESPECT. ANYTHING CALLED FOR IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRA SHOWN ON THE DRAWINGS AND NOT CALLED FOR IN THE SPECIFICATIONS MUST BE FURNISHED BY THE CONTRACTOR.
	CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE DETAILS OF THE CONSTRUCTION OF THE BUILDING. WORK UND SPECIFICATIONS INSTALLED IMPROPERLY OR WHICH REQUIRES CHANGING DUE TO IMPROPER READING OR INTERPRETATION OF BUILDING PLA BE CORRECTED AND CHANGED AS DIRECTED BY THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER. CONDITIONS SOMETIMES OCCUR WHICH REQUIRE CERTAIN CHANGES IN DRAWINGS AND SPECIFICATIONS. IN THE EVENT THAT SUCH CH
	DRAWINGS AND SPECIFICATIONS ARE NECESSARY, THE SAME ARE TO BE MADE BY THE CONTRACTOR WITHOUT EXPENSE TO THE OWNER, SUCH CHANGES DO NOT REQUIRE FURNISHING MORE MATERIALS, OR PERFORMING MORE LABOR THAN THE TRUE INTENT OF THE DRAW SPECIFICATIONS DEMANDS. IT IS UNDERSTOOD THAT WHILE THE DRAWINGS ARE TO BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PE CONTRACTOR IS HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEM ACCORDING TO THE TRUE INTENT AND MEANING OF THE I ANYTHING NOT ENTIRELY CLEAR IN THE DRAWINGS AND SPECIFICATION WILL BE FULLY EXPLAINED IF APPLICATION IS MADE TO THE A SHOULD, HOWEVER, CONDITIONS ARISE WHERE IN THE JUDGMENT OF THE CONTRACTOR CERTAIN CHANGES WILL BE ADVISABLE, THE CONTRACT COMMUNICATE WITH THE ARCHITECT AND SECURE HIS APPROVAL OF THESE CHANGES BEFORE GOING AHEAD WITH THE WORK.
	RESERVED BY THE ARCHITECT WITHOUT INVOLVING ANY ADDITIONAL EXPENSE TO THE OWNER. IT SHALL BE THE DUTY OF PROSPECTIVE CONTRACTORS TO VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH JOB CONDITIONS. N WILL BE ALLOWED BECAUSE OF ADDITIONAL WORK NECESSITATED BY, OR CHANGES IN PLANS REQUIRED BECAUSE OF EVIDENT JOB CONDITIONAL ARE NOT INDICATED ON THE DRAWINGS.
	CODES, RULES, PERMITS AND FEES ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE NATIONAL FIRE CODES OF THE NATIONAL FIRE PE ASSOCIATION, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION. ALL MATERIALS AND EQUIPMENT FOR THE ELECTRICAL PORTION OF THE MECHANICAL SYSTEM SHALL BEAR THE APPROVAL LABEL, AND
	LISTED BY THE UNDERWRITERS' LABORATORIES, INC. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE, AND REQUIREMENTS OF GOVERNMENTAL HAVING JURISDICTION.
	COOPERATION WITH OTHER TRADES THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES AND SHALL FURNISH ANY INFORMATION NECESSARY TO PERMIT THE ALL TRADES TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY.
	WHERE THE WORK OF THE CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR MAY INTERFERE WITH THE WORK OF OTHER TR SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF SO DIRECTED BY THE ARCHITECT, THE CO SHALL PREPARE COMPOSITE WORKING DRAWINGS AND SECTIONS AT A SUITABLE SCALE NOT LESS THAN $3/8$ " = 1'-0", CLEARLY SHOWING WORK IS TO BE INSTALLED IN RELATION TO THE WORK OF OTHER TRADES. IF THE CONTRACTOR INSTALLS HIS WORK BEFORE COORDINA OTHER TRADES, OR SO AS TO CAUSE ANY INTERFERENCE WITH WORK OF OTHER TRADES, HE SHALL MAKE THE NECESSARY CHANGES IN TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.
	THE CONTRACTOR SHALL FURNISH TO OTHER TRADES, AS REQUIRED, ALL NECESSARY TEMPLATES, PATTERNS, SETTING PLANS, AND SHOP FOR THE PROPER INSTALLATION OF WORK AND FOR THE PURPOSE OF COORDINATING ADJACENT WORK. SAFETY REQUIREMENTS
	ALL SYSTEMS SHALL BE INSTALLED SO AS TO BE SAFE OPERATING AND ALL MOVING PARTS SHALL BE COVERED WHERE SUBJECT T CONTACT. ALL ROUGH EDGES OF EQUIPMENT AND MATERIALS SHALL BE MADE SMOOTH. ALL SAFETY CONTROLS SHALL BE CHECKED UNDER THE SUPERVISION OF THE ARCHITECT'S REPRESENTATIVE AND EIGHT (8) COPIES OF T
	SHOWING SETTING AND PERFORMANCE OF SAFETY CONTROLS SHALL BE SUBMITTED TO THE ARCHITECT. ALL PRESSURE VESSELS SHALL STAMPED AND SHALL HAVE STAMPED RELIEF VALVES. WATER HEATERS SHALL BE PROVIDED WITH ASME STAMPED T & P RELIEF VALVE.
	IN GENERAL, ALL PIPES IN FINISHED SPACES SHALL BE RUN CONCEALED IN FLOORS, WALLS, PARTITIONS AND ABOVE CEILINGS. UNLESS ON NOTED, ALL PIPE SHALL RUN INSIDE THE INSULATED PERIMETER OF THE BUILDING. EXCAVATING AND BACKFILLING
	IN BACKFILLING PIPE TRENCHES, APPROVED FILL SHALL FIRST BE COMPACTED FIRMLY AND EVENLY ON BOTH SIDES OF PIPE IN 6" LAYE DEPTH OF 12" OVER THE TOP OF THE PIPE. REMAINDER OF TRENCH SHALL BE BACKFILLED TO ESTABLISHED GRADE IN 6" LAYERS. BETWEEN EACH LAYER WITH A HIGH-FREQUENCY VIBRATOR TAMPER SUCH AS DART SOIL COMPACTOR (AS MANUFACTURED BY DART MANUF COMPANY, DENVER, COLORADO). FILL SHALL BE COMPACTED TO DENSITY SPECIFIED UNDER EARTH WORK SECTION OF SPECIFICATIONS FOR AREA THROUGH WHICH TRENCH PASSES. COMPACT FILL TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT ALL OTHER AREAS BEARING PRESSURE AS INDICATED SHALL BE VERIFIED BY A TESTING LABORATORY, WHICH FOLLOWING THE CRITERIA SPECIFIED FOR FO WALL TRENCH, ETC. IN THE EARTH WORK SECTION OF THE SPECIFICATIONS. THE REPORTS SHALL BE FORWARDED TO THE ARCHITECT FOR JUNLESS OTHERWISE SPECIFIED, THE COST WILL BE BORNE BY THIS CONTRACTOR, BEFORE ANY WORK IS PERFORMED. IF THE EARTH PRESSURE IS LESS THAN THAT REQUIRED, THE CONTRACTOR SHALL NOT BEGIN ADDITIONAL WORK UNTIL NOTIFIED BY THE ARCHITECT TO COPY OF THE REPORT SHALL BE FORWARDED TO THE ARCHITECT IN TRIPLICATE. PROTECTION
	THE CONTRACTOR SHALL PROTECT ALL WORK AND MATERIAL FROM DAMAGE, AND SHALL BE LIABLE FOR ALL DAMAGE DURING CONSTRUCTIO THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK AND EQUIPMENT UNTIL ALL CONSTRUCTION IS FINALLY INSPECTED, TESTED AND ACCEPT
	SHALL PROTECT WORK AGAINST THEFT, INJURY OR DAMAGE; AND SHALL CAREFULLY STORE MATERIAL AND EQUIPMENT RECEIVED ON SITE NOT IMMEDIATELY INSTALLED. HE SHALL CLOSE OPEN ENDS OF WORK INCLUDING PIPE, DUCT, OR EQUIPMENT WITH TEMPORARY COVERS DURING STORAGE AND CONSTRUCTION TO PREVENT ENTRY OF OBSTRUCTING MATERIALS OR DUST AND DEBRIS. PROVIDE A PROTECTIVE COVERING OF NOT LESS THAN 0.004" THICK VINYL SHEETING (OR A SIMILAR APPROVED MATERIAL) TO BE USED IN
	ALL ITEMS OF EQUIPMENT, IMMEDIATELY AFTER THE EQUIPMENT HAS BEEN SET IN PLACE, (OR IF IN A PLACE OF STORAGE WITHIN THE UNDER CONSTRUCTION) TO PREVENT THE ACCUMULATION OF DIRT, SAND, CEMENT, PLASTER, PAINT OR OTHER FOREIGN MATERIALS FROM CON THE EQUIPMENT AND/OR FOULING WORKING PARTS.
	CLEAN FROM ALL EXPOSED INSULATION AND METAL SURFACES GREASE, DEBRIS OR OTHER FOREIGN MATERIAL. CHROME PLATED FITTINGS, FIXTURES, PIPING AND TRIM SHALL BE POLISHED UPON COMPLETION. EQUIPMENT SERVICEABILITY
	ALL EQUIPMENT SHALL BE SERVICEABLE. ALL EQUIPMENT SHALL BE INSTALLED SO THAT IT CAN BE REMOVED. ALL EQUIPMENT IN OR C TO PIPING SYSTEMS SHALL HAVE VALVES TO ISOLATE THIS EQUIPMENT FROM THE PIPING SYSTEM. THIS INCLUDES, BUT NOT NECESSARIL TO CONTROL VALVES, WATER HEATERS, SENSORS, SWITCHES, PUMPS, TRAPS AND STRAINERS. UNIONS (SCREWED OR FLANGED) SHALL BE SO THAT ALL EQUIPMENT IS REMOVABLE. ACCEPTANCE OF EQUIPMENT
	CONTRACTOR SHALL MAKE ALL NECESSARY TESTS, TRIAL OPERATION BALANCING AND BALANCE TESTS, ETC., AS MAY BE REQUIRED AS DIR THE ENGINEER TO PROVE THAT ALL WORK UNDER THESE PLANS AND SPECIFICATION IS IN COMPLETE SERVICEABLE CONDITION AND WILL FUN INTENDED. OIL BURNERS, GAS BURNERS, AND WATER CHILLERS SHALL BE STARTED BY A REPRESENTATIVE OF THE EQUIPMENT MANUFACTU COSTS OF THESE PROCEDURES SHALL BE BORNE BY THIS CONTRACTOR.
	UPON COMPLETION OF ALL WORK THE SYSTEM SHALL BE TESTED TO DETERMINE IF ANY EXCESS NOISE OR VIBRATION IS APPAREN OPERATION OF THE SYSTEM. IF ANY SUCH OBJECTIONS ARE DETECTED IN THE SYSTEM OR NOISY EQUIPMENT FOUND, THE CONTRACTOR RESPONSIBLE FOR CORRECTING SAME. DUCTS, PLENUMS AND CASINGS SHALL BE CLEANED OF ALL DEBRIS AND BLOWN FREE OF ALL PAR
	RUBBISH AND DUST BEFORE INSTALLING OUTLET FACES. EQUIPMENT SHALL BE CLEANED OF ALL DEBRIS AND BLOWN TREE OF ALL FACE SPOTS REMOVED. TEMPORARY FILTERS SHALL BE PROVIDED FOR ALL FANS THAT ARE OPERATED DURING CONSTRUCTION AND A CONSTRUCTION DIRT HAS BEEN REMOVED FROM THE BUILDING, NEW FILTERS SHALL BE INSTALLED. BEARINGS SHALL BE LUBRIC RECOMMENDED BY THE EQUIPMENT MANUFACTURER. ALL CONTROL VALVES AND EQUIPMENTS SHALL BE ADJUSTED TO SETTING INDICATE SHALL BE ADJUSTED TO THE SPEED INDICATED BY THE MANUFACTURER TO MEET SPECIFIED CONDITIONS.

	TEST	
ERE IN ORDER TC., WHICH IS CTION OF THE	R S	TEST PRESSURE BY CAPPING LINES OR WITH VALVES DURING
WHENEVER THE	PIPING SYSTEM REGARDLESS OF WHETHER OR NOT IT IS LEAKING.	ING IS NOTED, THE CONTS STALL BE KENOVED FORM THE
IECESSARY TO		
THE INTENDED	E STERILIZATION OF WATER PIPING SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION SYSTEM SHALL BE FLUSHED WITH WATER. THE CHLORINATING MATERIAL SHALL BE LIC SODIUM HYPOCHLORITE, OR CHLORINATED LIME-WATER MIXTURE. THE SOLUTION SHAL DISINFECTING SOLUTION SHALL BE ALLOWED TO REMAIN IN THE SYSTEM FOR A MINIMU	QUID CHLORINE-WATER MIXTURE CALCIUM HYPOCHLORITE, L HAVE NOT LESS THAN 50 PPM AVAILABLE CHLORINE. THE JM PERIOD OF 24 HOURS. AFTER DISINFECTION, THE SYSTEM
INTENDED FOR CAPACITY AND	R WATER SAMPLES SHALL BE TAKEN AND TESTED AT THE CONTRACTOR'S EXPENSE BY	
WINGS, WHICH LECTRICAL, OR	R	
ARED BY THE		
ND EQUIPMENT		' ABOVE GRADE, TYPE "K" BELOW GRADE.
REQUIRED BY		
UL ATTENTION E POINTS.	TESTED IN ACCORDANCE WITH ASTM D2765, METHOD B. PIPING SHALL BE MANUFAC TESTED FOR COMPLIANCE BY AN INDEPENDENT, THIRD-PARTY AGENCY. PIPING SHAL SHALL COMPLY WITH NSF 14 AND NSF 61 AND BEAR THE "NSF-PW" MARKING. ACCORDANCE WITH PPI TR-3: 73.4° AT 80PSI. 180° AT 100PSI AND 200° AT 80PSI	DEGREE OF CROSS-LINKING SHALL BE BETWEEN 70-89% WI TURED IN ACCORDANCE WITH ASTM F876 AND ASTM F877 / LL HAVE A MINIMUM MATERIAL DESIGNATION OF PEX 5106 / TEMPERATURE AND PRESSURE REQUIREMENTS SHALL BE
S, AND MUST DRAWINGS OR		
UNDER THESE PLANS SHALL	 20% GLASS-FILLED POLYSULFONE AS SPECIFIED IN ASTM D6394 UNREINFORCED POLYSULFONE (GROUP 01, CLASS 1, GRADE 2) AS SPECIFIED IN ASTM D6 POLYPHENYLSULFONE (GROUP 03, CLASS 1, GRADE 2) AS SPECIFIED IN ASTM D6 	6394
I CHANGES IN ER, PROVIDING		YSULFONE (REM.) AS SPECIFIED IN ASTM D6394
DRAWINGS AND L PERMIT, THE THE DRAWINGS.	FITTINGS SHALL COMPLY WITH NSF 14 AND NSF 61 AND BEAR THE 'NSF-PW' MARKING	
HE ARCHITECT. ITRACTOR WILL	L ALL PIPING SHALL BE SUPPORTED ON NOT LESS THAN 10' CENTERS AND WITHIN 30"	OF EACH CHANGE OF DIRECTION EXCEPT THAT PIPING 1 1/4
DUGHING IN, IS	PIPE HANGERS SHALL BE SUPPORTED BY MEANS OF IRON HANGER RODS FROM THE B	
NO EXTRAS DITIONS, THAT	Т	LE IRON CLIPS OR SUITABLE BRACKETS ATTACHED TO SIDES (
	PIPE INSULATION	
E PROTECTION	ALL WATER PIPING SHALL BE INSULATED WITH HEAVY DENSITY FIBERGLASS WITH AN VINYL, FIBERGLASS SCRIM CLOTH, ALUMINUM FOIL, AND KRAFT PAPER, IN THAT ORDEF N THICKNESS SHALL BE 1"FOR ALL PIPING.	
ND SHALL BE	VALVES E BALL VALVES SHALL BE CAST RED BRONZE WITH TWO PIECE BODY, FULL PORT. WHEN	I INSTALLED IN INSULATED PIPING FURNISH EXTENDED TEE
TAL AGENCIES	HANDLE. ALL ISOLATION VALVES INSTALLED ABOVE CEILINGS SHALL BE BALL VALVES. S SOIL, WASTE, VENT AND DRAIN PIPING SHALL BE SOLID WALL PVC PLASTIC PIPE AND	FITTINGS CONFORMING TO ASTM D 2665. JOINTS FOR PVC PI
	SHALL BE SOLVENT CEMENT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION	
THE WORK OF	F	
R TRADES, HE CONTRACTOR	R	
WING HOW HIS DINATION WITH IN HIS WORK	H	
SHOP DETAILS	S	
CT TO HUMAN	Ν	
OF TEST DATE IALL BE ASME		
SS OTHERWISE	Ε	
LAYERS TO A S. COMPACT		

COMPACT NUFACTURING OR SPECIFIED EAS. EARTH FOUNDATION OR APPROVAL RTH BEARING TO DO SO. A

TION. CCEPTED. HE SITE WHICH IS RS OR PLUGS

IN COVERING THE BUILDING

R CONNECTED ARILY LIMITED BE PROVIDED

DIRECTED BY FUNCTION AS ACTURER. ALL

RENT DURING OR SHALL BE PARTICLES OF T AND PAINT O AFTER ALL BRICATED AS CATED. FANS

KMANSHIP OR LUBRICATION, EPTANCE AND MANSHIP AND

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RW		

EN MADE, THE CHLORITE, LORINE. THE THE SYSTEM FLUSHED, IALL BE CEDURE SHALL

S FOR PVC PIPE

AND FITTINGS

CROSSLINKED 70-89% WHEN ASTM F877 AND PEX 5106 AND SHALL BE IN

OTABLE WATER

STEEL MEMBERS, D TO SIDES OF

S FOR PVC PIPE

PLUMBING SPECIALITIES SCHEDULE

SYM	DESCRIPTION	MODEL NUMBER
HB	HOSE BIBB	WOODFORD #24 WITH LOOSE KEY ,CHROME PLATED, VACUUM BREAKER. (use #b24 for HB in box)
WCO	WALL CLEANOUT	ZURN Z-1446 W/STAINLESS STEEL COVER

EQUALS BY JOSAM, JAY R.SMITH, WADE, PRIER.

PLUMBING FIXTURE SCHEDULE							
SYM	DESCRIPTION	CW	HW	w	V	MODEL NUMBER	REMARKS
P-1	WATER CLOSET (WALL HUNG)	1 1/4"	_	3"	2"	KOHLER "KINGSTON" K–4325; BENEKE 527SS SEAT; SLOAN ROYAL 115–1.6–YK FLUSH VALVE;	1,2,3,4,5 6,7
P–1A	WATER CLOSET (WALL HUNG ADA)	1 1/4"	_	3"	2"	KOHLER "KINGSTON" K-4325; BENEKE 527SS SEAT; SLOAN ROYAL 111 FLUSH VALVE FOR H/C	1,2,3,4,5 6,7
P-2	URINAL	3/4"	_	2"	2"	KOHLER "DEXTER" K–5016–ET W/SLOAN ROYAL 186–1 FLUSH VALVE	1,2,3,5
P-3	LAVATORY (COUNTER GRID)	1/2"	1/2"	2"	2"	KOHLER "FARMINGTON" K-2905-4; CHICAGO 802-665ABCP FAUCET; K-7607 SUPPLY; K-8998 TRAP, K-7129-A DRAIN.	1,8,9

1. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL FIXTURES.

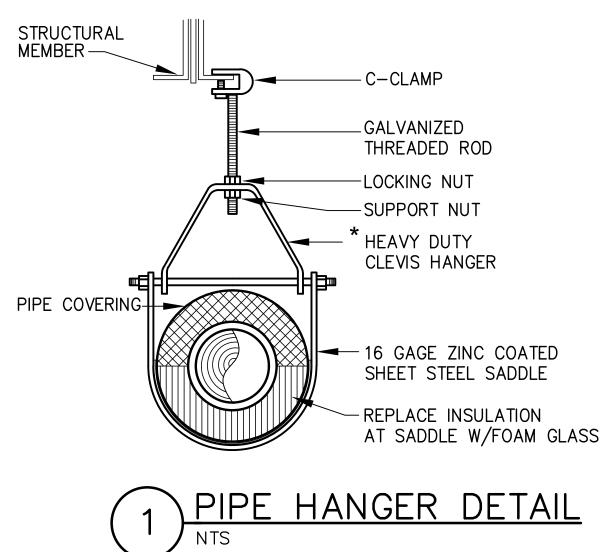
2. PROVIDE CARRIERS FOR ALL WALL MOUNTED FIXTURES. FOR LAVATORIES: SINGLE HANGER FOR BLOCK WALLS; FOR GYPBOARD WALL, PROVIDE FLOOR-MOUNT ARM CARRIERS (CONCEALED OR EXPOSED PER MFR'S REQUIREMENTS).

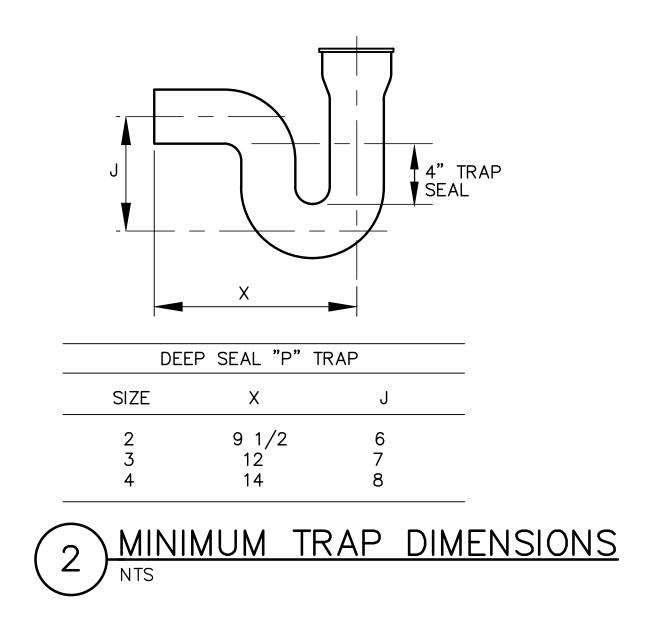
3. EQUAL CHINA FIXTURE BY AMERICAN STANDARD, ZURN & SLOAN. 4. EQUAL TOILET SEAT BY BEMIS, OLSONITE & BENEKE.

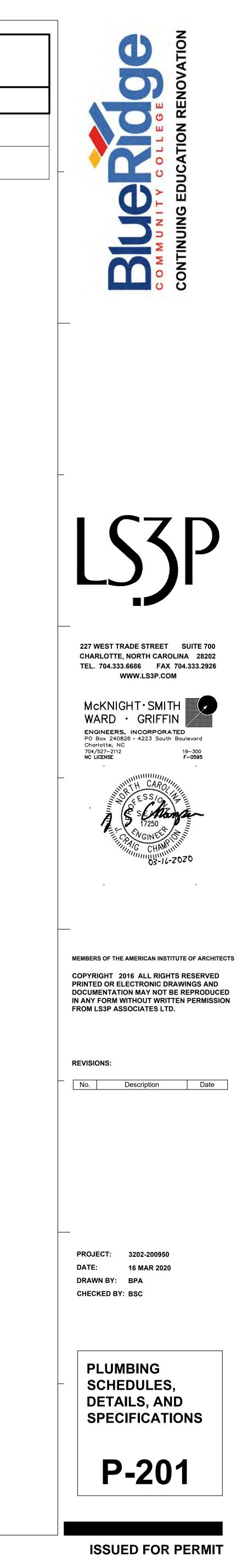
5. EQUAL FLUSH VALVES BY ZURN & TOTO. 6. TOP OF FLUSH VALVE SHALL BE LOCATED MINIMUM 3" BELOW BOTTOM OF GRAB BAR. P.C. TO CUT

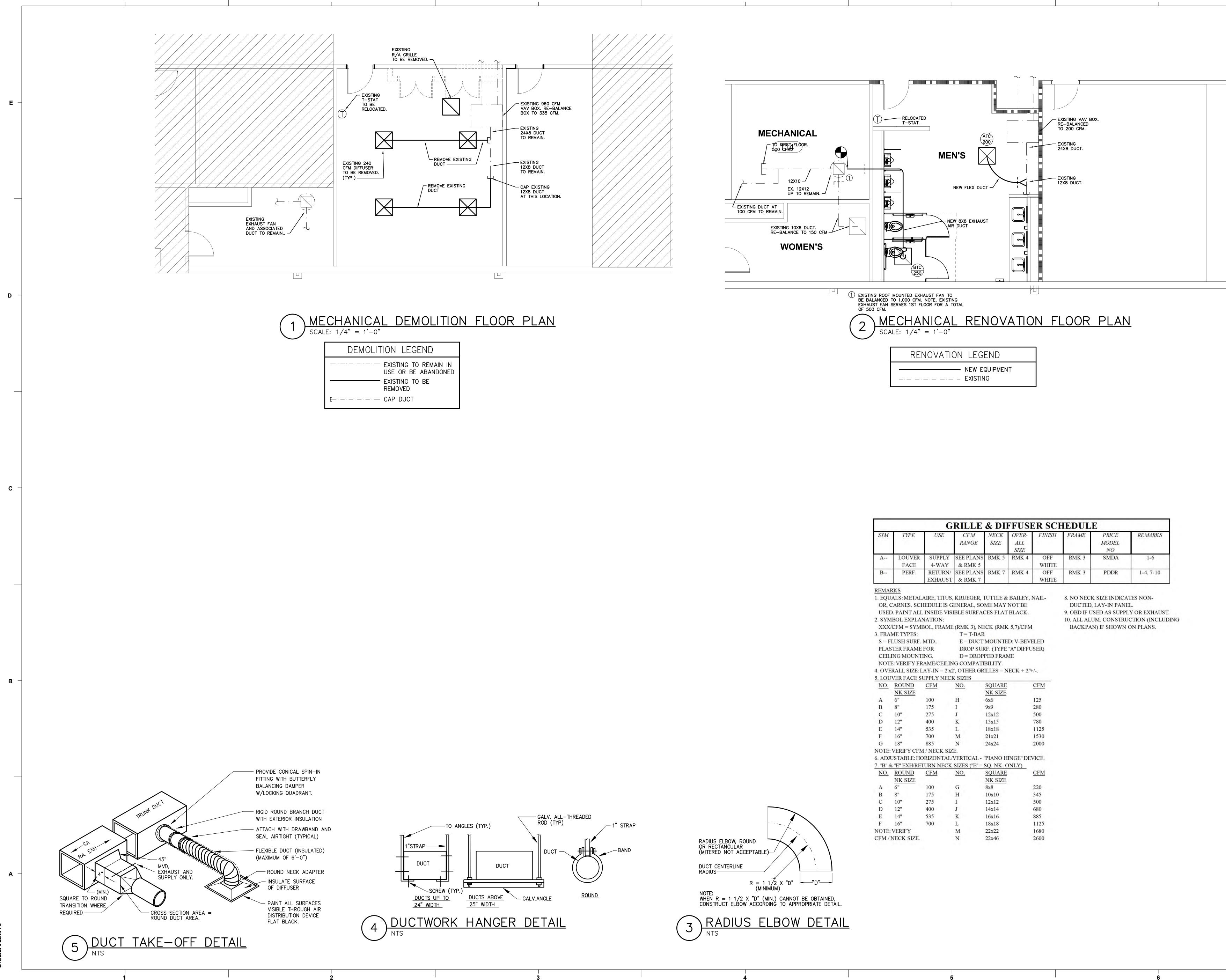
OUTLET TUBE AS REQUIRED. 7. FLUSH VALVE MECHANISM SHALL BE LOCATED OPPOSITE OF HAND RAIL AS PER ADA REQUIREMENT.

8. EQUAL FAUCETS BY SYMMONS, DELTA, MOEN, ZURN & AMERICAN STANDARD. 9. PROVIDE INTEGRAL CHECK STOPS AT ALL WALL FAUCETS.









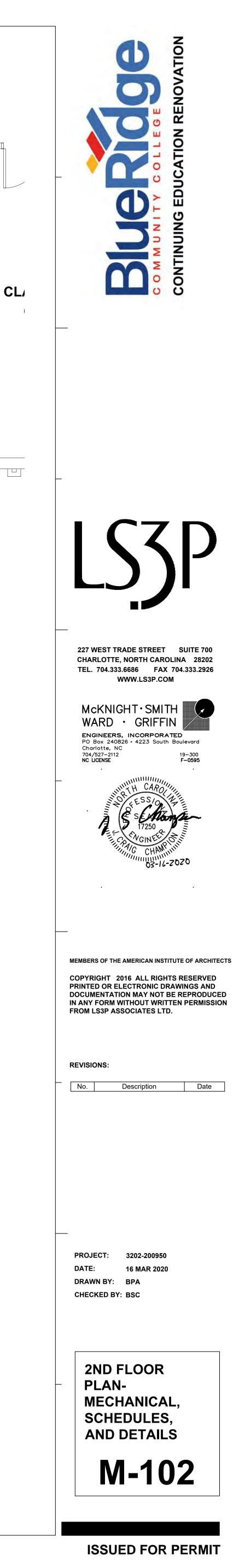
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N LEGEND	
SE OR BE ABANDONED	
XISTING TO BE	
AP DUCT	

	GRILLE & DIFFUSER SCHEDULE								
SYM	TYPE	USE	CFM RANGE	NECK SIZE	OVER- ALL SIZE	FINISH	FRAME	PRICE MODEL NO	REMARKS
A	LOUVER FACE	SUPPLY 4-WAY	SEE PLANS & RMK 5	RMK 5	RMK 4	OFF WHITE	RMK 3	SMDA	1-6
В	PERF.	RETURN/ EXHAUST	SEE PLANS & RMK 7	RMK 7	RMK 4	OFF WHITE	RMK 3	PDDR	1-4, 7-10

NO.	ROUND	CFM	NO.	SQUARE	CFM
	NK SIZE			NK SIZE	
Α	6"	100	H	6x6	125
В	8"	175	Ι	9x9	280
С	10"	275	J	12x12	500
D	12"	400	K	15x15	780
Е	14"	535	L	18x18	1125
F	16"	700	Μ	21x21	1530
G	18"	885	N	24x24	2000
NOTE	VERIFY CF	M / NECK	SIZE.		
5. ADJ	USTABLE: H	ORIZONTA	AL/VERTICA	L - "PIANO HING	E" DEVICE

7. "B" 8	& "E" EXH/RI	ETURN NEO	CK SIZES ("I	E'' = SQ. NK. ONLY)	
NO.	ROUND	CFM	NO.	SQUARE	CFM
	NK SIZE			NK SIZE	
A	6"	100	G	8x8	220
В	8"	175	Н	10x10	345
C	10"	275	I	12x12	500
D	12"	400	J	14x14	680
Е	14"	535	K	16x16	885
F	16"	700	L	18x18	1125
NOTE:	VERIFY		М	22x22	1680
CFM /	NECK SIZE	•	Ν	22x46	2600



	SCOPE
	THE CONTRACTOR SHALL COORDINATE THE WORK AND EQUIPMENT OF THIS DIVISION WITH THE WORK AND EQUIPMENT SPECIFIED ELSEWHERE IN ORDER TO ASSURE A COMPLETE AND SATISFACTORY INSTALLATION. WORK SUCH AS EXCAVATION, BACKFILL, CONCRETE, FLASHING, WIRING, ETC., WHICH IS REQUIRED BY THE WORK OF THIS SECTION SHALL BE
	PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE SECTION OF THE SPECIFICATIONS. IT IS THE INTENTION OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. WHENEVER THE WORD "PROVIDE" IS USED, IT
	SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE".
	THE WORD "PROVIDE" MEANS FURNISH, FABRICATED, COMPLETE, INSTALL, ERECT, INCLUDING LABOR AND INCIDENTAL MATERIALS NECESSARY TO COMPLETE IN PLACE AND READY FOR OPERATION OR USE THE ITEM REFERRED TO OR DESCRIBED HEREIN AND/OR SHOWN OR REFERRED TO ON THE CONTRACT DRAWINGS.
	EQUIPMENT APPLICATION AND PERFORMANCE THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL BE RESPONSIBLE TO SEE THAT EQUIPMENT SUPPLIED IS CORRECT FOR THE INTENDED APPLICATION AND WILL PERFORM
E -	WITHIN THE LIMITS OF CAPACITY, NOISE, LIFE EXPECTANCY, PRESSURE DROP AND SPACE LIMITATIONS INTENDED FOR THAT EQUIPMENT AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIFICATIONS. THE SHOP DRAWINGS SHALL SHOW THE CAPACITY AND OPERATING CHARACTERISTICS OF THE EQUIPMENT.
	WHERE THE CONTRACTOR PROPOSES TO USE AN ITEM OF EQUIPMENT OTHER THAN THAT SPECIFIED OR DETAILED ON THE DRAWINGS, WHICH REQUIRES ANY REDESIGN OF THE STRUCTURE, PARTITIONS, FOUNDATIONS, PIPING, WIRING OR ANY OTHER PART OF THE MECHANICAL, ELECTRICAL, OR ARCHITECTURAL LAYOUT, ALL SUCH REDESIGN, AND ALL NEW DRAWINGS AND DETAILING REQUIRED THEREFORE, SHALL BE PREPARED BY THE SUBCONTRACTOR AT HIS OWN EXPENSE AND SUBMITTED FOR APPROVAL BY THE ARCHITECT.
	WHERE SUCH APPROVED DEVIATION REQUIRES A DIFFERENT QUANTITY AND ARRANGEMENT OF DUCTWORK, PIPING, WIRING, CONDUIT, AND EQUIPMENT FROM THAT SPECIFIED OR INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL FURNISH AND INSTALL ANY SUCH DUCTWORK, PIPING, STRUCTURAL SUPPORTS, INSULATION, CONTROLLERS, MOTORS,
	STARTERS, ELECTRICAL WIRING AND CONDUIT, AND ANY OTHER ADDITIONAL EQUIPMENT REQUIRED BY THE SYSTEM, AT NO ADDITIONAL COST TO THE OWNER.
	DIELECTRIC CONNECTIONS DIELECTRIC CONNECTIONS SHALL BE USED AT ANY POINTS WITHIN THE PIPING SYSTEMS WHERE DISSIMILAR METALS MEET. CAREFUL ATTENTION SHALL BE GIVEN TO SUPPORT BRACKETS AND HANGERS TO SELECT PROPER MATERIALS TO AVOID DISSIMILAR METAL CONTACT AT THESE POINTS.
	DUTIES OF CONTRACTOR
	CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS CALLED FOR IN THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS, AND MUST FURNISH THE APPARATUS COMPLETE IN EVERY RESPECT. ANYTHING CALLED FOR IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS OR SHOWN ON THE DRAWINGS AND NOT CALLED FOR IN THE SPECIFICATIONS MUST BE FURNISHED BY THE CONTRACTOR.
	CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE DETAILS OF THE CONSTRUCTION OF THE BUILDING. WORK UNDER THESE SPECIFICATIONS INSTALLED IMPROPERLY OR WHICH REQUIRES CHANGING DUE TO IMPROPER READING OR INTERPRETATION OF BUILDING PLANS SHALL BE CORRECTED AND CHANGED AS DIRECTED BY THE
	ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER. CONDITIONS SOMETIMES OCCUR WHICH REQUIRE CERTAIN CHANGES IN DRAWINGS AND SPECIFICATIONS. IN THE EVENT THAT SUCH CHANGES IN DRAWINGS AND SPECIFICATIONS ARE
	NECESSARY, THE SAME ARE TO BE MADE BY THE CONTRACTOR WITHOUT EXPENSE TO THE OWNER, PROVIDING SUCH CHANGES DO NOT REQUIRE FURNISHING MORE MATERIALS, OR PERFORMING MORE LABOR THAN THE TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS DEMANDS. IT IS UNDERSTOOD THAT WHILE THE DRAWINGS ARE TO BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, THE CONTRACTOR IS HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEM ACCORDING TO THE TRUE INTENT AND MEANING OF
	THE DRAWINGS. ANYTHING NOT ENTIRELY CLEAR IN THE DRAWINGS AND SPECIFICATION WILL BE FULLY EXPLAINED IF APPLICATION IS MADE TO THE ARCHITECT. SHOULD HOWEVER, CONDITIONS ARISE WHERE IN THE JUDGMENT OF THE CONTRACTOR CERTAIN CHANGES WILL BE ADVISABLE, THE CONTRACTOR WILL COMMUNICATE WITH THE ARCHITECT AND SECURE HIS APPROVAL OF THESE CHANGES BEFORE GOING AHEAD WITH THE WORK.
	THE RIGHT TO MAKE ANY RESPONSIBLE CHANGE IN LOCATION OF APPARATUS, EQUIPMENT, ROUTING OF PIPING UP TO THE TIME OF ROUGHING IN, IS RESERVED BY THE ARCHITECT
- c	WITHOUT INVOLVING ANY ADDITIONAL EXPENSE TO THE OWNER. IT SHALL BE THE DUTY OF PROSPECTIVE CONTRACTORS TO VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH JOB CONDITIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF
	ADDITIONAL WORK NECESSITATED BY, OR CHANGES IN PLANS REQUIRED BECAUSE OF EVIDENT JOB CONDITIONS, THAT ARE NOT INDICATED ON THE DRAWINGS. CODES, RULES, PERMITS AND FEES
	ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.
	ALL MATERIALS AND EQUIPMENT FOR THE ELECTRICAL PORTION OF THE MECHANICAL SYSTEM SHALL BEAR THE APPROVAL LABEL, AND SHALL BE LISTED BY THE UNDERWRITERS' LABORATORIES, INC.
	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE, AND REQUIREMENTS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION.
	COOPERATION WITH OTHER TRADES THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES AND SHALL FURNISH ANY INFORMATION NECESSARY TO PERMIT THE WORK OF ALL TRADES TO BE INSTALLED
	SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY. WHERE THE WORK OF THE CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR MAY INTERFERE WITH THE WORK OF OTHER TRADES, HE SHALL ASSIST IN WORKING OUT
	SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF SO DIRECTED BY THE ARCHITECT, THE CONTRACTOR SHALL PREPARE COMPOSITE WORKING DRAWINGS AND SECTIONS AT A SUITABLE SCALE NOT LESS THAN 3/8" = 1'-0", CLEARLY SHOWING HOW HIS WORK IS TO BE INSTALLED IN RELATION TO THE WORK OF OTHER TRADES. IF THE
	CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATION WITH OTHER TRADES, OR SO AS TO CAUSE ANY INTERFERENCE WITH WORK OF OTHER TRADES, HE SHALL MAKE THE NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.
	THE CONTRACTOR SHALL FURNISH TO OTHER TRADES, AS REQUIRED, ALL NECESSARY TEMPLATES, PATTERNS, SETTING PLANS, AND SHOP DETAILS FOR THE PROPER INSTALLATION OF WORK AND FOR THE PURPOSE OF COORDINATING ADJACENT WORK.
	SAFETY REQUIREMENTS ALL SYSTEMS SHALL BE INSTALLED SO AS TO BE SAFE OPERATING AND ALL MOVING PARTS SHALL BE COVERED WHERE SUBJECT TO HUMAN CONTACT. ALL ROUGH EDGES OF
	EQUIPMENT AND MATERIALS SHALL BE MADE SMOOTH. ALL SAFETY CONTROLS SHALL BE CHECKED UNDER THE SUPERVISION OF THE ARCHITECT'S REPRESENTATIVE AND EIGHT (8) COPIES OF TEST DATE SHOWING SETTING AND
с –	PERFORMANCE OF SAFETY CONTROLS SHALL BE SUBMITTED TO THE ARCHITECT. ALL PRESSURE VESSELS SHALL BE ASME STAMPED AND SHALL HAVE STAMPED RELIEF VALVES. WATER HEATERS SHALL BE PROVIDED WITH ASME STAMPED T & P RELIEF VALVE.
	CONCEALED PIPE IN GENERAL, ALL PIPES IN FINISHED SPACES SHALL BE RUN CONCEALED IN FLOORS, WALLS, PARTITIONS AND ABOVE CEILINGS. UNLESS OTHERWISE NOTED, ALL PIPE SHALL RUN
	INSIDE THE INSULATED PERIMETER OF THE BUILDING.
	THE CONTRACTOR SHALL PROTECT ALL WORK AND MATERIAL FROM DAMAGE AND SHALL BE LIABLE FOR ALL DAMAGE DURING CONSTRUCTION.
	THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK AND EQUIPMENT UNTIL ALL CONSTRUCTION IS FINALLY INSPECTED, TESTED AND ACCEPTED. HE SHALL PROTECT WORK AGAINST THEFT, INJURY OR DAMAGE; AND SHALL CAREFULLY STORE MATERIAL AND EQUIPMENT RECEIVED ON SITE WHICH IS NOT IMMEDIATELY INSTALLED. HE SHALL CLOSE OPEN
	ENDS OF WORK INCLUDING PIPE, DUCT, OR EQUIPMENT WITH TEMPORARY COVERS OR PLUGS DURING STORAGE AND CONSTRUCTION TO PREVENT ENTRY OF OBSTRUCTING MATERIALS OR DUST AND DEBRIS.
	PROVIDE A PROTECTIVE COVERING OF NOT LESS THAN 0.004" THICK VINYL SHEETING (OR A SIMILAR APPROVED MATERIAL) TO BE USED IN COVERING ALL ITEMS OF EQUIPMENT, IMMEDIATELY AFTER THE EQUIPMENT HAS BEEN SET IN PLACE, (OR IF IN A PLACE OF STORAGE WITHIN THE BUILDING UNDER CONSTRUCTION) TO PREVENT THE ACCUMULATION OF DIRT, SAND, CEMENT, PLASTER, PAINT OR OTHER FOREIGN MATERIALS FROM COLLECTING ON THE EQUIPMENT AND/OR FOULING WORKING PARTS.
	CLEANING
	CLEAN FROM ALL EXPOSED INSULATION AND METAL SURFACES GREASE, DEBRIS OR OTHER FOREIGN MATERIAL. CHROME PLATED FITTINGS, FIXTURES, PIPING AND TRIM SHALL BE POLISHED UPON COMPLETION.
	EQUIPMENT SERVICEABILITY
	ALL EQUIPMENT SHALL BE SERVICEABLE. ALL EQUIPMENT SHALL BE INSTALLED SO THAT IT CAN BE REMOVED. ALL EQUIPMENT IN OR CONNECTED TO PIPING SYSTEMS SHALL HAVE VALVES TO ISOLATE THIS EQUIPMENT FROM THE PIPING SYSTEM. THIS INCLUDES, BUT NOT NECESSARILY LIMITED TO CONTROL VALVES, WATER HEATERS, SENSORS, SWITCHES, PUMPS, TRAPS AND STRAINERS. UNIONS (SCREWED OR FLANGED) SHALL BE PROVIDED SO THAT ALL EQUIPMENT IS REMOVABLE.
в —	ACCEPTANCE OF EQUIPMENT
	CONTRACTOR SHALL MAKE ALL NECESSARY TESTS, TRIAL OPERATION BALANCING AND BALANCE TESTS, ETC., AS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER TO PROVE THAT ALL WORK UNDER THESE PLANS AND SPECIFICATION IS IN COMPLETE SERVICEABLE CONDITION AND WILL FUNCTION AS INTENDED. OIL BURNERS, GAS BURNERS, AND WATER CHILLERS SHALL BE STARTED BY A REPRESENTATIVE OF THE EQUIPMENT MANUFACTURER. ALL COSTS OF THESE PROCEDURES SHALL BE BORNE BY THIS CONTRACTOR.
	UPON COMPLETION OF ALL WORK THE SYSTEM SHALL BE TESTED TO DETERMINE IF ANY EXCESS NOISE OR VIBRATION IS APPARENT DURING OPERATION OF THE SYSTEM. IF ANY SUCH OBJECTIONS ARE DETECTED IN THE SYSTEM OR NOISY EQUIPMENT FOUND, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING SAME. DUCTS, PLENUMS AND
	CASINGS SHALL BE CLEANED OF ALL DEBRIS AND BLOWN FREE OF ALL PARTICLES OF RUBBISH AND DUST BEFORE INSTALLING OUTLET FACES. EQUIPMENT SHALL BE WIPED CLEAN WITH ALL TRACES OF OIL, DUST, DIRT AND PAINT SPOTS REMOVED. TEMPORARY FILTERS SHALL BE PROVIDED FOR ALL FANS THAT ARE OPERATED DURING CONSTRUCTION AND AFTER ALL CONSTRUCTION DIRT HAS BEEN REMOVED FROM THE BUILDING, NEW FILTERS SHALL BE INSTALLED. BEARINGS SHALL BE LUBRICATED AS RECOMMENDED BY THE
	EQUIPMENT MANUFACTURER. ALL CONTROL VALVES AND EQUIPMENTS SHALL BE ADJUSTED TO SETTING INDICATED. FANS SHALL BE ADJUSTED TO THE SPEED INDICATED BY THE MANUFACTURER TO MEET SPECIFIED CONDITIONS.
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TION.

GUARANTEE

CONDENSATE DRAIN PIPING

THE CONTRACTOR SHALL GUARANTEE THE COMPLETE MECHANICAL SYSTEM AGAINST DEFECT DUE TO FAULTY MATERIALS, FAULTY WORKMANSHIP OR FAILURE DUE TO NEGLIGENCE OF THE CONTRACTOR. THIS GUARANTEE WILL EXCLUDE NORMAL WEAR AND TEAR, MAINTENANCE LUBRICATION, REPLACEMENT OF EXPENDABLE COMPONENTS, OR ABUSE. THE GUARANTEE PERIOD SHALL BEGIN ON THE DATE OF THE FINAL ACCEPTANCE AND SHALL CONTINUE FOR A PERIOD OF 12 MONTHS DURING WHICH TIME THE CONTRACTOR SHALL MAKE GOOD SUCH DEFECTIVE WORKMANSHIP AND MATERIALS AND ANY DAMAGE RESULTING THERE FROM, WITHIN A REASONABLE TIME OF NOTICE GIVEN BY THE OWNER. REFRIGERATION COMPRESSORS SHALL HAVE A FIVE (5) YEAR WARRANTY. DUCTWORK

DUCTWORK SHALL BE CONSTRUCTED OF ZINC COATED SHEET STEEL AND SHALL CONFORM TO THE 1ST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS -METAL AND FLEXIBLE, 1985 AS FOLLOWS:

RECTANGULAR DUCT: 1" W.G. PRESSURE CLASS - TABLE 1-4.

ROUND DUCT: 2" W.G. PRESSURE CLASS - TABLE 3-2.

ALL DUCTWORK MUST BE SEALED IN ACCORDANCE WITH SEAL CLASS C AS DEFINED IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE, 1985. DUCT HANGERS AND SUPPORTS SHALL CONFORM TO THOSE SHOWN IN TABLES 4-1 AND 4-2 OF SMACNA HVAC DUCTWORK 1985, 1ST EDITION. DUCT INSULATION

INSULATION SHALL BE OWENS-CORNING, CERTAIN-TEED/ST. GOBAIN, MANVILLE OR APPROVED EQUIVALENT. ADHESIVES SHALL BE AS MANUFACTURED BY 3-M FOSTER OR INSULATION MANUFACTURER. INSULATION SHALL HAVE COMPOSITE (INSULATION, JACKET AND ADHESIVE) FIRE AND SMOKE HAZARD RATING AS TESTED BY ASTM E-84, NOT EXCEEDING FLAME SPREAD -25 AND SMOKE DEVELOPED -50. ALL VAPOR BARRIERS AND JOINTS SHALL BE SEALED TO PREVENT CONDENSATION. CLEAN AND DRY ALL DUCTWORK BEFORE INSTALLING INSULATION. ALL WELD

JOINTS SHALL BE WIRE BRUSHED AND GIVE ONE (1) COAT OF RED LEAD BEFORE INSULATING. STAPLES WILL NOT BE PERMITTED IN INSULATION. ALL SUPPLY AIR DUCTS UNLESS NOTED OTHERWISE ON PLANS SHALL BE INSULATED BY WRAPPING WITH 2" THICK, 3/LB. DENSITY FIBERGLASS WITH VAPOR BARRIER

APPLIED IN 4" STRIPS, 8" ON CENTER. ALL JOINTS SHALL BE SECURED WITH FLARE DOOR STAPLES ON 3" CENTERS THROUGH ALL LAPS OVER DUCT TAPE. DUCTWORK EXPOSED TO WEATHER SHALL BE INSULATED AS FOLLOWS: SEAL ALL JOINTS WITH HARD CAST SEALER, APPLY 2" THICK POLYSTYRENE INSULATION (MIN R-8), COVER WITH TWO (2) INDIVIDUAL LAYERS OF GLASSFAB AND WHITE MASTIC. PAINT TO MATCH BACKGROUND COLOR. IN LIEU OF MASTIC AND PAINTING, DUCT MAY BE COVERED WITH ALUMINUM JACKET. CONTROLS

SPLIT SYSTEM HEAT PUMPS SHALL BE CONTROLLED BY MANUFACTURER SUPPLIED SEVEN DAY PROGRAMMABLE THERMOSTATS EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHT SWITCH. REFRIGERANT PIPING

CONNECT SPLIT SYSTEM AIR HANDLING UNITS TO HEAT PUMPS WITH REFRIGERANT PIPING, TYPE "K" HARD DRAWN COPPER "ACR" TUBING WITH WROUGHT COPPER SWEAT FITTINGS. ALL JOINTS ARE TO BE MADE WITH HARD SOLDER SUCH AS "SIL-FOS" OR "SILVER SOLDER."

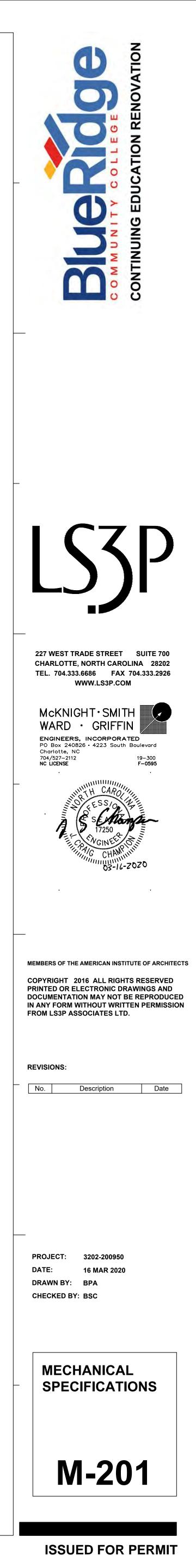
PIPE INSULATION - REFRIGERANT SUCTION PIPING - FLEXIBLE FOAMED ELASTOMERIC PLASTIC TUBING WITH A DENSITY OF 6 LBS./CF, K OF 0.27 @ 70 DEGREES F., SELF-EXTINGUISHING, AND A WATER VAPOR TRANSMISSION OF LESS THAN 0.05 PERM IN., FLAME SPREAD RATING 25 OR LESS, SMOKE DEVELOPED RATING OF 50 OR LESS (ASTM E84-75).

ALL DRAIN LINES SHALL BE TYPE K COPPER CONFORMING TO ASTM D 2665. DRAINS SHALL BE RUN IN A NEAT MANNER AS SHOWN. TESTING AND BALANCING

WORK SHALL BE PERFORMED BY TECHNICIANS COMPETENT IN THE TRADE OF TESTING AND BALANCING ENVIRONMENTAL SYSTEMS AND SHALL BE DONE IN AN ORGANIZED MANNER UTILIZING APPROPRIATE TEST AND BALANCE FORMS. ALL EQUIPMENT SHALL BE BALANCED TO WITHIN +/- 10% OF THE SCHEDULED VALUE. INSTRUMENTS FOR USE IN THE TEST AND BALANCING PROCEDURES SHALL BE OF FIRST QUALITY AND BE ACCURATELY CALIBRATED AT THE TIME OF USE. ALL FIELD INSTRUMENTS USED IN THE BALANCE SHOULD HAVE BEEN CALIBRATED AT LEAST WITHIN THE PREVIOUS THREE MONTHS. STARTING DATE FOR MECHANICAL SYSTEM SHALL BE SCHEDULED WELL IN ADVANCE OF EXPECTED COMPLETION DATE AND SHALL BE ESTABLISHED A MINIMUM OF TWO WEEKS PRIOR TO ACCEPTANCE DATE. THE SYSTEM SHALL BE IN FULL OPERATION WITH ALL EQUIPMENT FUNCTIONAL PRIOR TO ACCEPTANCE DATE. ADES, HE SHALL ASSIST IN WORKING OUT PERFORMANCE READINGS SHALL BE TAKEN AND RECORDED ON ALL AIR DISTRIBUTION DEVICES AND THE SYSTEM SHALL BE BALANCED OUT PRIOR TO ACCEPTANCE. BALANCING OF THE SYSTEM SHALL BE ACCOMPLISHED WITH DUCT DAMPERS AND ONLY MINOR ADJUSTMENTS MADE WITH GRILLE DAMPERS. RECORD AND SUBMIT RESULTS IN TABLE FORM ALONG SIDE OF SCHEDULED QUANTITIES.

ALL UNITS SHALL BE CHECKED OUT THOROUGHLY AND THE INFORMATION RECORDED ON EACH MACHINE. CHECK SHEETS SHALL BE INCLUDED IN OPERATING AND MAINTENANCE INSTRUCTIONAL MANUAL.

JACKET WITH JOINTS OVERLAPPED A MINIMUM OF TWO INCHES. INSULATION SHALL BE ADHERED TO DUCT WITH NON-COMBUSTIBLE INSULATION BONDING ADHESIVE



	SYMBOL SCHEDULE
SYMBOL	SYMBOLS DESCRIPTION
STINDOL	
	CONDUIT RUN CONCEALED ABOVE CEILINGS OR IN WALLS.
	CONDUIT RUN CONCEALED IN OR BELOW FLOORS OR UNDERGROUND. CONDUIT RUN EXPOSED.
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	SQUARE ON CONDUIT SYMBOL INDICATES THAT CIRCUIT CONTINUES BUT NOT SWITCHLEG.
	HOMERUN TO PANEL AND CIRCUIT(S) DESIGNATED. ARROW(S) INDICATE QUANTITY OF CIRCUITS.
J	JUNCTION BOX PER N.E.C.
•	
$\langle \rangle$	SPECIAL NOTE, NUMERALS IDENTIFY, SEE SCHEDULE.
LIGHTING	
SYMBOL	DESCRIPTION
•	LED OR FLUORESCENT LIGHTING FIXTURE, DRAWN TO SCALE.
0	COMPACT FLUORESCENT, LED OR HID LIGHTING FIXTURE, CEILING MOUNTED.
•	COMPACT FLUORESCENT, LED OR HID LIGHTING FIXTURE, CONNECTED TO AN EMERGENCY CIRCUIT OR EMERGENCY BALLAST.
¤	COMPACT FLUORESCENT, LED OR HID LIGHTING FIXTURE. UTILIZED AS A NIGHT-LIGHT. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT.
×	COMPACT FLUORESCENT, LED OR HID LIGHTING FIXTURE. CONNECTED TO AN EMERGENCY CIRCUIT OR EMERGENCY BALLAST. CONNECT TO THE UNSWITCHED LEG OF THE CIRCUIT.
DISTRIBU	ΠΟΝ
SYMBOL	DESCRIPTION
	ELECTRICAL PANELBOARD, FLUSH MOUNTED.
	ELECTRICAL PANELBOARD, SURFACE MOUNTED.
	RM SYSTEM
SYMBOL	DESCRIPTION
Ø	FIRE ALARM SYSTEM VISUAL ONLY NOTIFICATION APPLIANCE DEVICE. PROVIDE SYNCHRONIZED STROBES WHERE 2 OR MORE STROBES ARE LOCATED IN ONE ROOM OR VISIBLE FROM ONE LOCATION.
S	LIGHT SWITCH, SINGLE-POLE,
S3	LIGHT SWITCH, 3-WAY,
09	OCCUPANCY SENSOR, CEILING MOUNTED. PROVIDE WITH 10 FEET WHIP TO ALLOW FIELD ADJUSTMENT OF LOCATION. COORDINATE EXACT LOCATION WITH MANUFACTURERS RECOMMENDATION.
Ð	DUPLEX RECEPTACLE, 125V, 3-WIRE GROUNDING TYPE.
	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTING.
▼	WALL OUTLET FOR TELECOMMUNICATIONS. PROVIDE 1"EC TO ABOVE ACCESSIBLE CEILING SPACE.

ABBREVIATIONS

MOUNTING HEIGHTS

ABOVE COUNTER TOP

TELECOMMUNICATIONS

ABOVE COUNTER TOP

STROBE DEVICE ONLY

AUDIBLE/STROBE COMBINATION OR

RECEPTACLE

LIGHT SWITCH

GENERAL

GENERAL

TELEVISION

FIRE ALARM

PULL STATION

WALL

С

AMPERES ARMORED CLAD CABLE ACC ABOVE FINISHED FLOOR AFF ABOVE FINISHED GRADE AFG FIRE ALARM ANNUNCIATOR CABINET ANN CONDUIT CIRCUIT BREAKER CB CKT CIRCUIT CLG CEILING DN DOWN DISHWASHER DW EMPTY CONDUIT EM1 ELECTRICAL METALLIC TUBING ELECTRICAL NON-METALLIC TUBING ENT ELECTRIC WATER COOLER EWC FACP FIRE ALARM CONTROL PANEL FMC FLEXIBLE METAL CONDUIT GROUND FAULT INTERRUPTER HOA HAND OFF AUTOMATIC HORSEPOWER HIGH POWER FACTOR HPF HIGH REACTANCE HX ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTANT START JUNCTION BOX KILOVOLT-AMPERES KVA FPN FUSE PER NAMEPLATE

KW

LFNC LFMC

LVC

MCB

MCC

MLO

MTD

NMC

PB

PNL

PRS

PWR

REC RMC

SW

SWBD TTB

XFMR

18" AFF. (UNLESS OTHERWISE NOTED)

44" AFF. (UNLESS OTHERWISE NOTED)

46" AFF. (UNLESS OTHERWISE NOTED)

18" AFF. (UNLESS OTHERWISE NOTED)

44" AFF. (UNLESS OTHERWISE NOTED)

46" AFF. (UNLESS OTHERWISE NOTED)

46" AFF. (UNLESS OTHERWISE NOTED)

80" AFF. TO BOTTOM OF APPLIANCE

(DISTANCE FROM FINISHED FLOOR TO CENTER OF DEVICE UNLESS OTHERWISE NOTED)

KILOWATTS LIQUIDTIGHT FLEXIBLE NON-METALLIC CONDUIT LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT LOW VOLTAGE CONTROL CABINET MAIN CIRCUIT BREAKER METAL CLAD CABLE MAIN LUGS ONLY MOUNTED NON-METALLIC CLAD CABLE PULLBOX PANELBOARD PROGRAM RAPID START PROGRAM START POWER RECEPTACLE RIGID METAL CONDUIT RAPID START FIRE ALARM PULL STATION SWITCH SWITCHBOARD ELEPHONE TERMINAL BOARD ELEPHONE TELEVISION TYPICAL VOLTS VAPOR PROOF WALL MOUNTED WIRE GUARD WEATHER PROOF TRANSFORMER

ELECTRICAL SPECIFICATIONS PROVIDE ALL WORK AND MATERIALS REQUIRED FOR A COMPLETE AND WORKMANLIKE INSTALLATION AS SHOWN BY THE THE DRAWINGS AND SPECIFIED HEREIN. 2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, STATE, AND LOCAL

AND ICEA STANDARDS. ANY DAMAGE DONE AS A RESULT OF THIS WORK.

5. ALL ELECTRICAL CONDUIT AND CONDUCTORS WHICH ARE ABANDONED SHALL EITHER BE REMOVED COMPLETELY OR MECHANICALLY AND ELECTRICALLY SECURED. BACK BOXES OF OUTLETS AND SWITCHES SHOWN TO BE REMOVED FROM REQUIRED BY THIS WORK.

MADE WITH PLASTIC WIRE NUTS.

8. OUTLET BOXES SHALL BE GALVANIZED SHEET STEEL. FIXTURE OUTLET BOXES ON CEILINGS SHALL NOT BE LESS SQUARE-CUT COVER EXTENSIONS. HUBBELL. PLATES SHALL BE 302 STAINLESS STEEL.

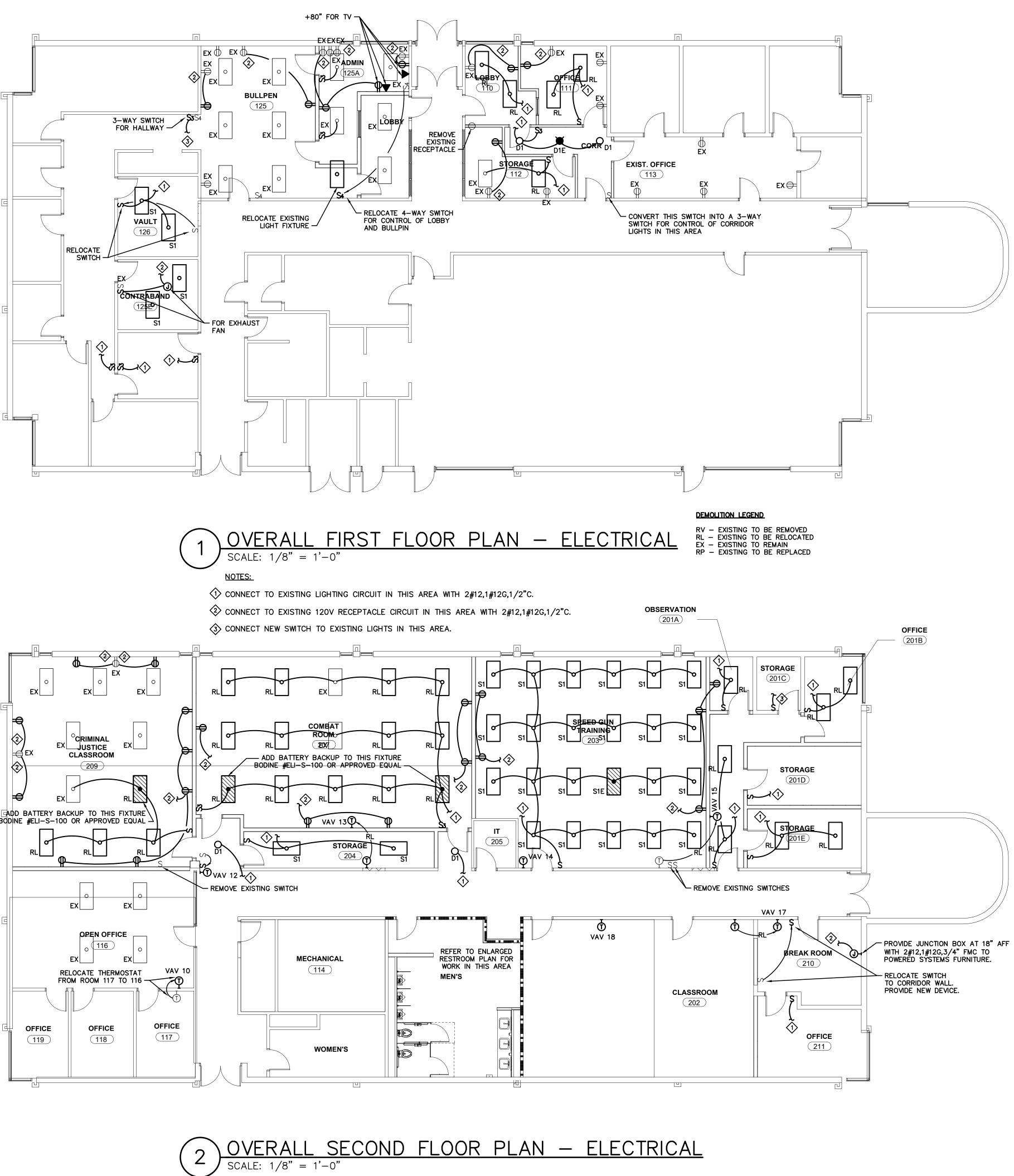
THAN 5 INCHES SQUARE SHALL BE NEMA 12.

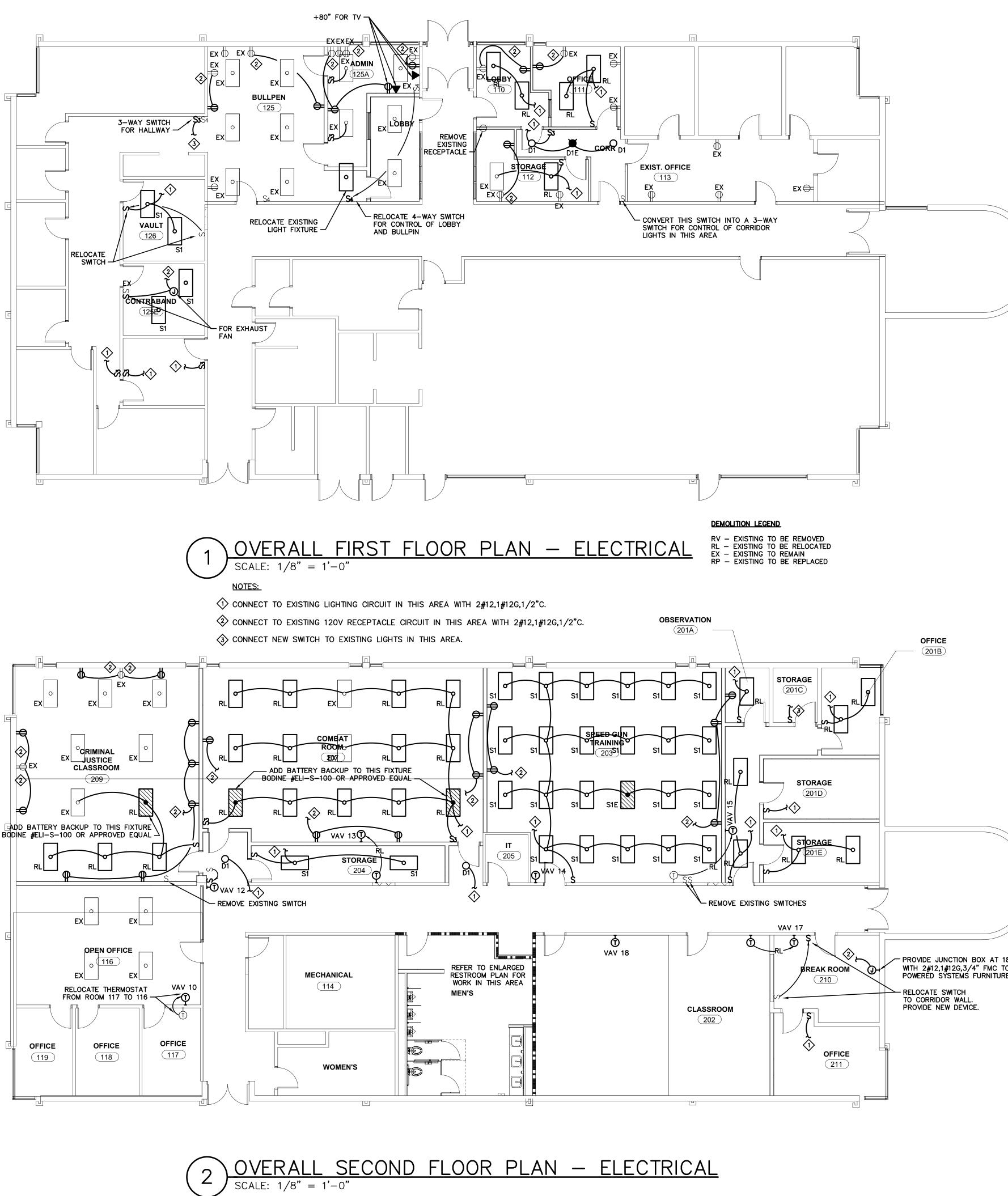
METHOD OTHERWISE.

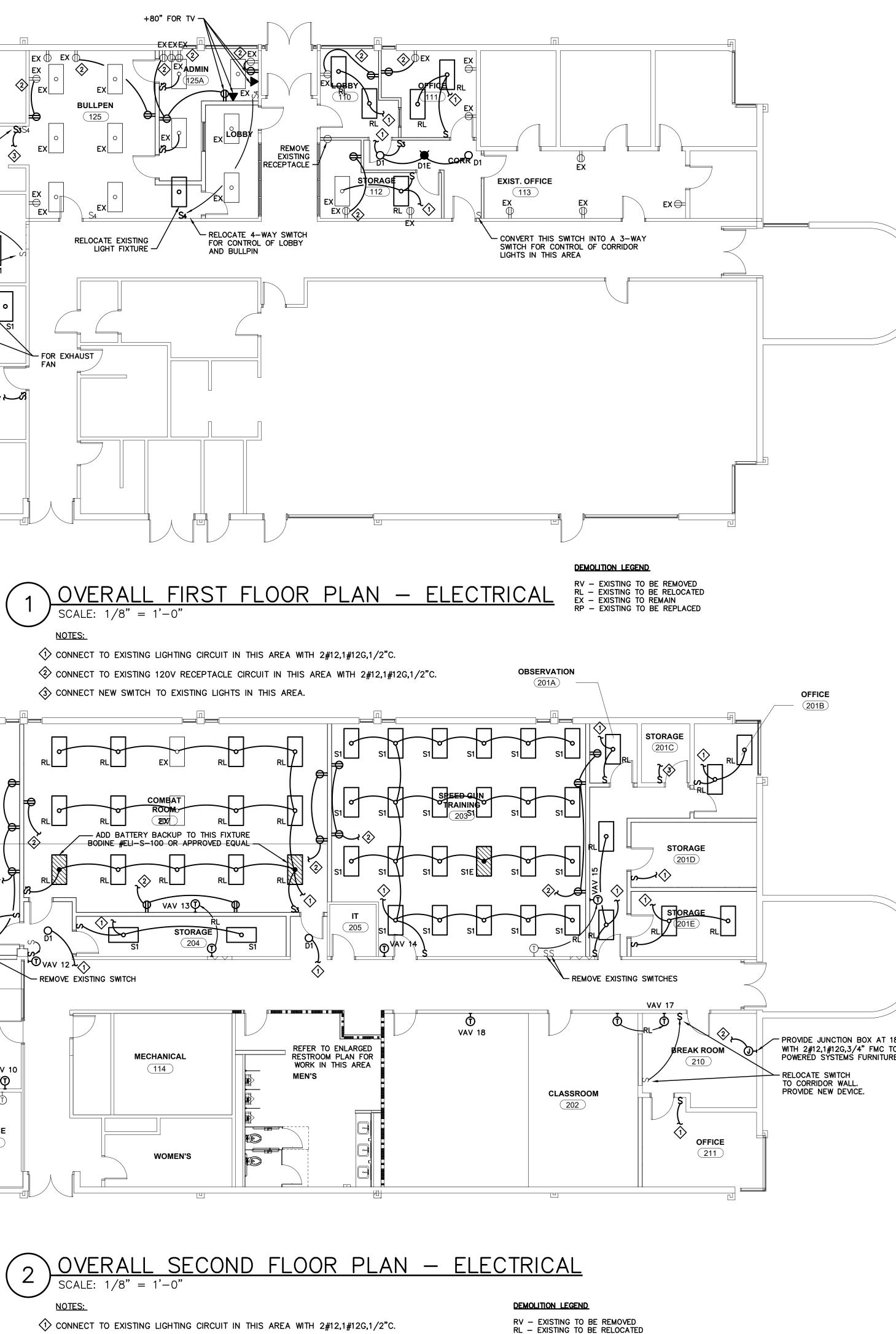
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TYPE	DESCRIPTION
S1	2'X4' SURFACE MOUNTED LED TROFFER. GRID TYPE FOR LAY-IN CEIL HOUSING AND REFLECTORS ARE DIE FORMED COLD ROLLED STEEL, A LINEAR PRISMATIC DIFFUSER, CONTOUR SHIELDING, WHITE POWDER CO FINISH. 3000 LUMENS NOMINAL.
S1E	2'X4' SURFACE MOUNTEDLED TROFFER. GRID TYPE FOR LAY-IN CEILII HOUSING AND REFLECTORS ARE DIE FORMED COLD ROLLED STEEL, A LINEAR PRISMATIC DIFFUSER, CONTOUR SHIELDING, WHITE POWDER CO FINISH. 3000 LUMENS NOMINAL. PROVIDE WITH 1400 LUMEN BATTERY
D1	LED RECESSED DOWNLIGHT, 6 INCH DIAMETER HOUSING, SELF-FLANG STYLE, CLEAR APERTURE/TRIM COLOR, SEMI-SPECULAR FINISH, DIMM
D1E	LED RECESSED DOWNLIGHT, 6 INCH DIAMETER HOUSING, SELF-FLANG STYLE, CLEAR APERTURE/TRIM COLOR, SEMI-SPECULAR FINISH, DIMM PROVIDE WITH 10 WATT EMERGENCY BATTERY PACK,
RL	EXISTING LIGHT FIXTURE RELOCATED AS A PART OF THIS WORK. CLE AND REINSTALL AS INDICATED. REFER TO ARCHITECTURAL DEMOLITION FOR LIGHT FIXTURES TO BE RELOCATED.
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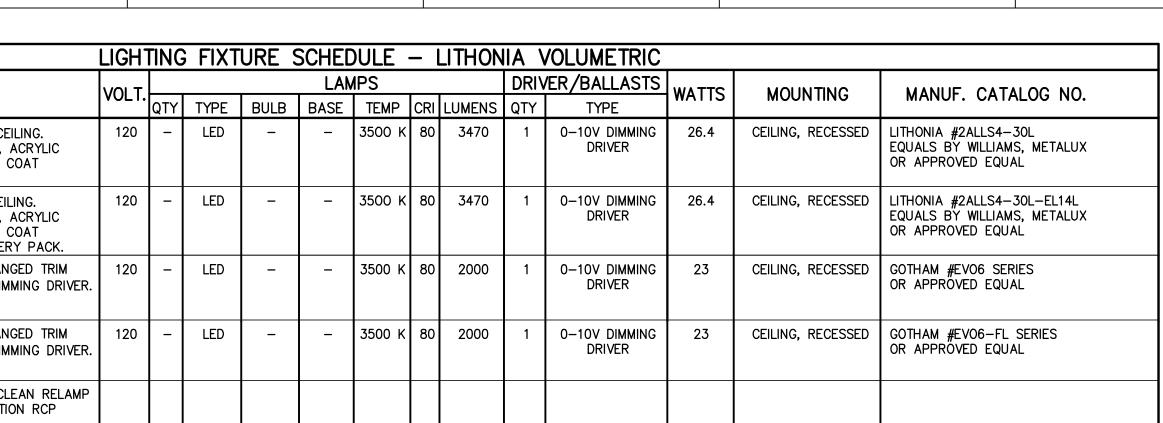




3. PERFORM ALL CUTTING AND PATCHING NECESSARY FOR THE PROPER INSTALLATION OF THIS WORK AND REPAIR 4. AN ELECTRICAL INSPECTION CERTIFICATE SHALL BE ISSUED BY THE AUTHORITIES HAVING JURISDICTION BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.

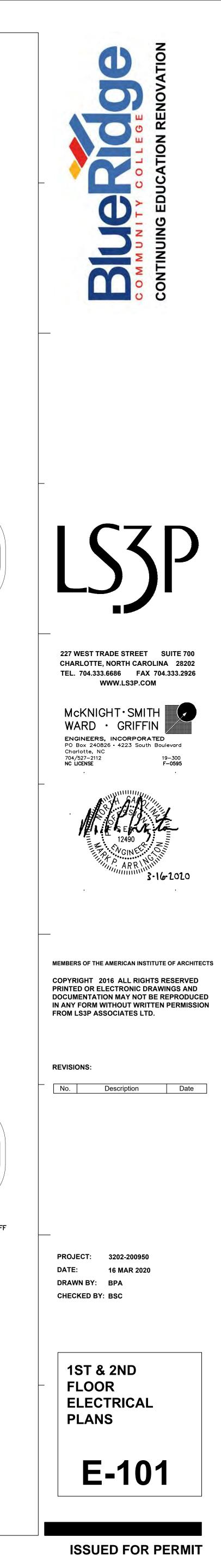
CODES. ELECTRICAL MATERIALS SHALL BE NEW AND SHALL COMPLY WITH ALL APPLICABLE NEMA, U.L., ANSI, OSHA,

- THE WALLS REMAINING SHALL BE REMOVED AND THE WALL PROPERLY PATCHED. ALL EXISTING ELECTRICAL OUTLETS NOT SHOWN TO BE REMOVED SHALL BE RECONNECTED. ALL MATERIALS AND EQUIPMENT NOTED TO BE REUSED IN THE NEW WORK SHALL BE CLEANED AND, IF NECESSARY, REPAIRED AND SHALL BE STORED AND PROTECTED ON THE SITE. ALL REUSED FIXTURES SHALL BE RELAMPED. PROVIDE OUTLET BOX EXTENSIONS WHERE NEW WALL FINISHES REQUIRED ADDITIONAL OUTLET BOX DEPTH. RELOCATE ANY EXISTING CONDUITS, CONDUCTORS, FIXTURES, AND OUTLETS WHERE
- 6. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN, AND SOLID OF #10, #12, AND #14 AWG AND STRANDED FOR #8 AWG AND LARGER. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG. CONDUCTORS SHALL BE COLOR CODED BLACK/RED/BLUE FOR 120/208 VOLT SYSTEMS. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET. NO SPLICES SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES. SPLICES SHALL BE MADE BY TWISTING SECURELY AND FASTENING WITH U.L. LISTED, PRESSURE-TYPE TWIST ON INSULATED-WIRE CONNECTORS OF THE SAME TEMPERATURE RATING AS THE CONDUCTORS. SPLICES TO LIGHT FIXTURE LEADS SHALL BE
- 7. ALL WIRING SHALL BE IN CONDUIT. WHERE CONCEALED WIRING SHALL BE METAL CLAD (MC) CABLE UNLESS OTHERWISE NOTED. WHERE EXPOSED, WIRING SHALL BE IN ELECTRICAL METALLIC TUBING (EMT), i-INCH TRADE SIZE MINIMUM. WHERE EMT IS USED, FITTINGS SHALL BE THREADLESS-COMPRESSION TYPE GALVANIZED STEEL. WHERE FLEXIBLE METAL CONDUIT IS USED, CONNECTORS SHALL BE T & B NYLON-INSULATED "TITE-BITE".
- THAN 4 INCHES OCTAGONAL OUTLET BOXES ON NEW GYPSUM DRYWALL WALLS SHALL BE 4 INCHES SQUARE WITH 9. SWITCHES AND RECEPTACLES SHALL BE SPECIFICATION GRADE BY ARROW-HART, GENERAL ELECTRIC, BRYANT, OR
- 10. TELEPHONE SYSTEM CONDUIT SHALL BE 1-INCH TRADE-SIZE MINIMUM, UNLESS OTHERWISE NOTED. EXTEND TO ABOVE CEILING AND TERMINATE WITH PLASTIC BUSHING. PROVIDE PULLCORD.
- 11. OUTLET AND JUNCTION BOXES SHALL BE CAST TYPE WITH THREADED HUBS. BOXES AND ENCLOSURES LARGER
- 12. ALL CONDUIT SHALL BE RUN AS HIGH AS POSSIBLE, PARALLEL WITH STRUCTURAL MEMBERS, SUPPORTED ON APPROVED TYPES OF GALVANIZED TRAPEZES, HANGERS, OR STRAPS. 13. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR EQUIPMENT CONNECTIONS, BUT NOT AS A WIRING
- 14. A CONTINUOUS GREEN GROUND WIRE SHALL BE RUN WITH EACH CIRCUIT.
- 15. SHOP DRAWINGS SHALL BE SUBMITTED FOR DRY-TYPE TRANSFORMERS AND PANELBOARDS.
- 16. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR PANELBOARDS.
- 17. UPDATE PANEL DIRECTORY TO REFLECT ALL CHANGES REQUIRED BY THIS WORK.



CONNECT TO EXISTING 120V RECEPTACLE CIRCUIT IN THIS AREA WITH 2#12,1#12G,1/2"C. (3) CONNECT NEW SWITCH TO EXISTING LIGHTS IN THIS AREA.

RV — EXISTING TO BE REMOVED RL — EXISTING TO BE RELOCATED EX — EXISTING TO REMAIN RP — EXISTING TO BE REPLACED

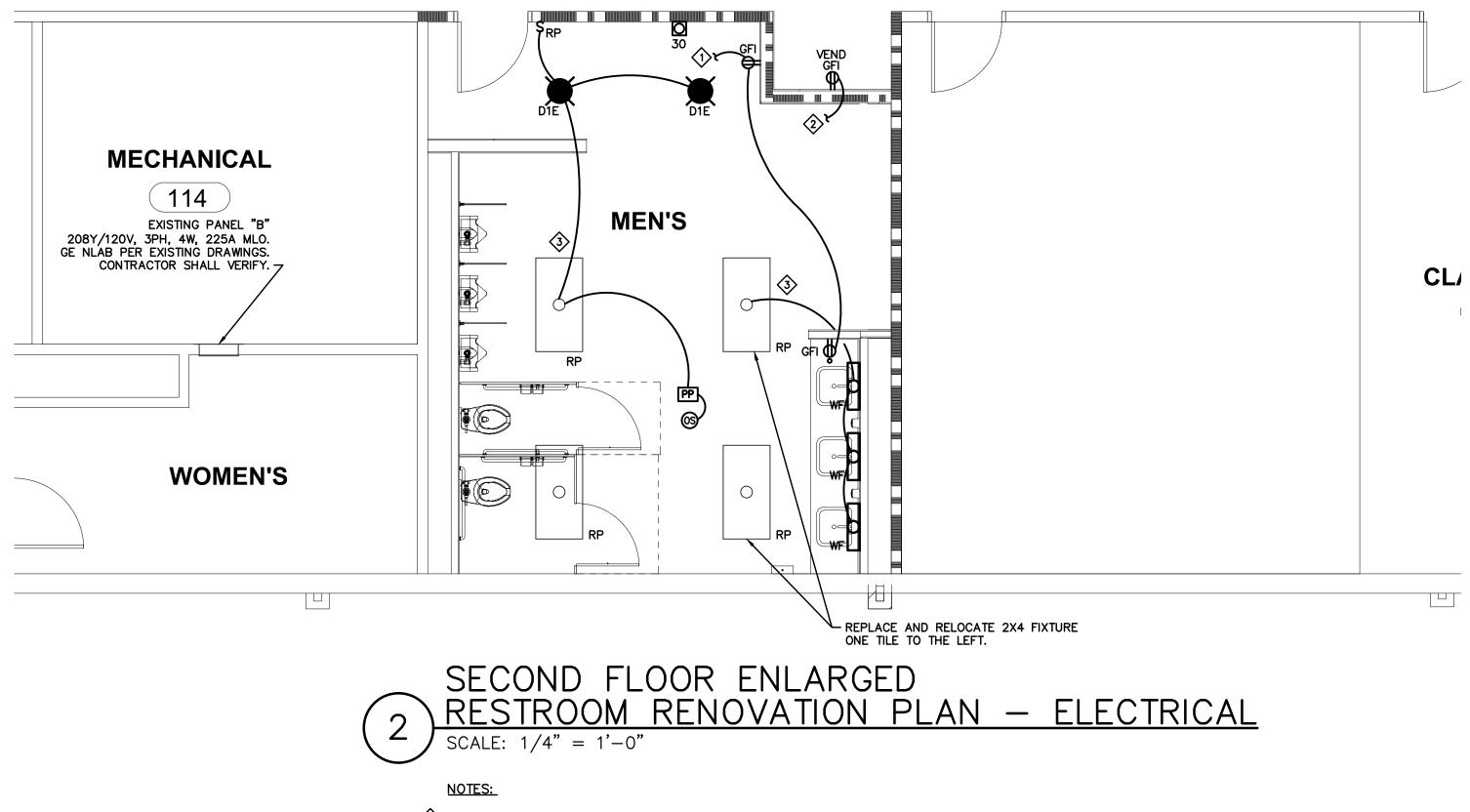




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CONNECT TO EXISTING RECEPTACLE CIRCUIT IN THIS SPACE (PANEL B, CIRCUIT 16 PER EXISTING DRAWINGS) WITH 2#12,1#12G,1/2"C.

CONNECT TO EXISTING RECEPTACLE CIRCUIT IN THIS SPACE (PANEL B, CIRCUIT 1 PER EXISTING DRAWINGS) WITH 2#12,1#12G,1/2"C.

CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT IN THIS SPACE (PANEL B, CIRCUIT 9 PER EXISTING DRAWINGS) WITH 2#12,1#12G,1/2"C.

