



Fire Marshal Division

December 20, 2018

Mr. Brett Strickland

**Re: Day Hall Renovation
200 Day Dorm Road
Lillington, NC 27546**

Application Number BCOM1812-0007

Mr. Strickland,

Thank you for submitting the plans for the building alterations. The plans have been carefully reviewed by a qualified code enforcement official to examine for compliance with the North Carolina Fire Prevention Code and all other fire protection regulatory documents. There are some items that were found during the plan review process that need to be addressed before a final inspection of the facility can be given. These items are outlined and described below.

- **901.2.1 State of Compliance.**
 - Before requesting final approval of the installation, where required by the fire code official, the installing contractor shall furnish a written statement to the fire code official that the subject fire protection system has been installed in accordance with the manufacturer's specifications and the appropriate installation standard. Any deviations from the design standards shall be noted and copies of the approvals for such deviations shall be attached to the written statement.
 - All work shall be performed in accordance with NFPA 13 and the NCSFC.

- **906.1 Fire Extinguishers**
 - Minimum of (1) 2A10:BC fire extinguisher shall be installed not to exceed 75' distance of travel.
 - All Fire extinguishers shall be properly mounted and tagged by a fire extinguisher company.

- **1006.1 Means of Egress Illumination**
 - The means of egress, including the exit discharge, shall be illuminated at all time the building space is served by the means of egress is occupied.



- Means of egress consist of three separate and distinct parts: the exit access, the exit and the exit discharge.
- The means of egress illumination shall not be less than 1 foot-candle at the walking surface.
- **Penetrations**
 - All penetrations in fire rated construction must be UL listed and inspected.
- **Smoke Detectors**
 - A smoke detector shall be located in each office space. This may occur by relocating or adding additional detectors as required for coverage.
 - The detectors shall be compatible with existing detectors and alarm system.
 - All equipment and work shall be conducted per NFPA 72.
 - A certification of completion, from the alarm company and an acceptance test shall be provide at final inspection.
- **Notes**
 - **All additions to existing systems shall properly communicate to existing fire panel.**
 - **A fire alarm construction permit is required.**
 - **Please schedule all inspections through the Fire Marshal's Office. 910-984-4003.**

Thank you again for submitting the plans for the building alterations. Please review the plans and adhere to any notes and alterations that were made in addition to the original drawings. If you have any questions, please do not hesitate to call this office.

Again, thank you and we look forward to working with you during the construction period!

Sincerely,

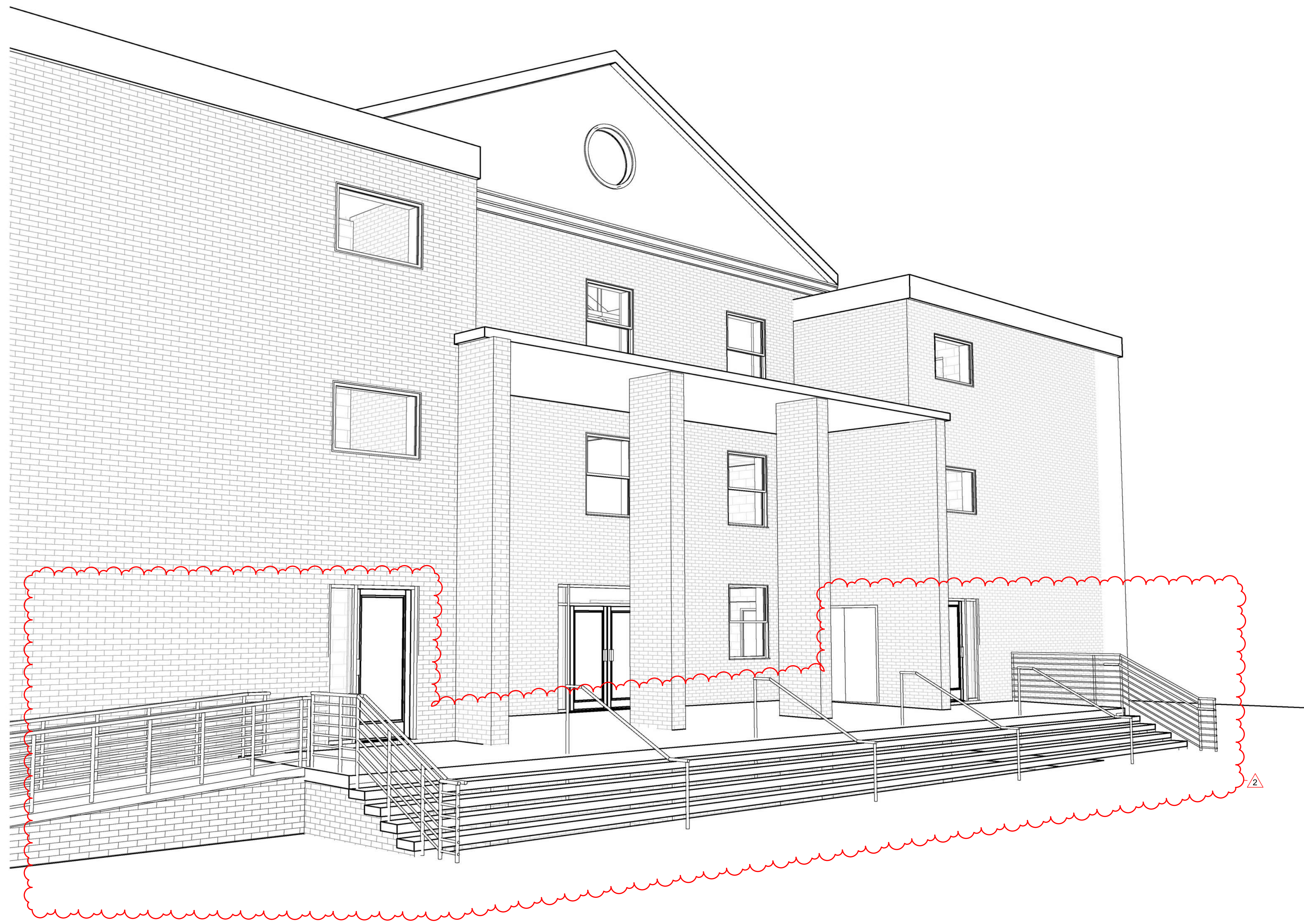


D. Banks Wallace
Chief Deputy Fire Marshal

CAMPBELL UNIVERSITY DAY HALL RENOVATIONS

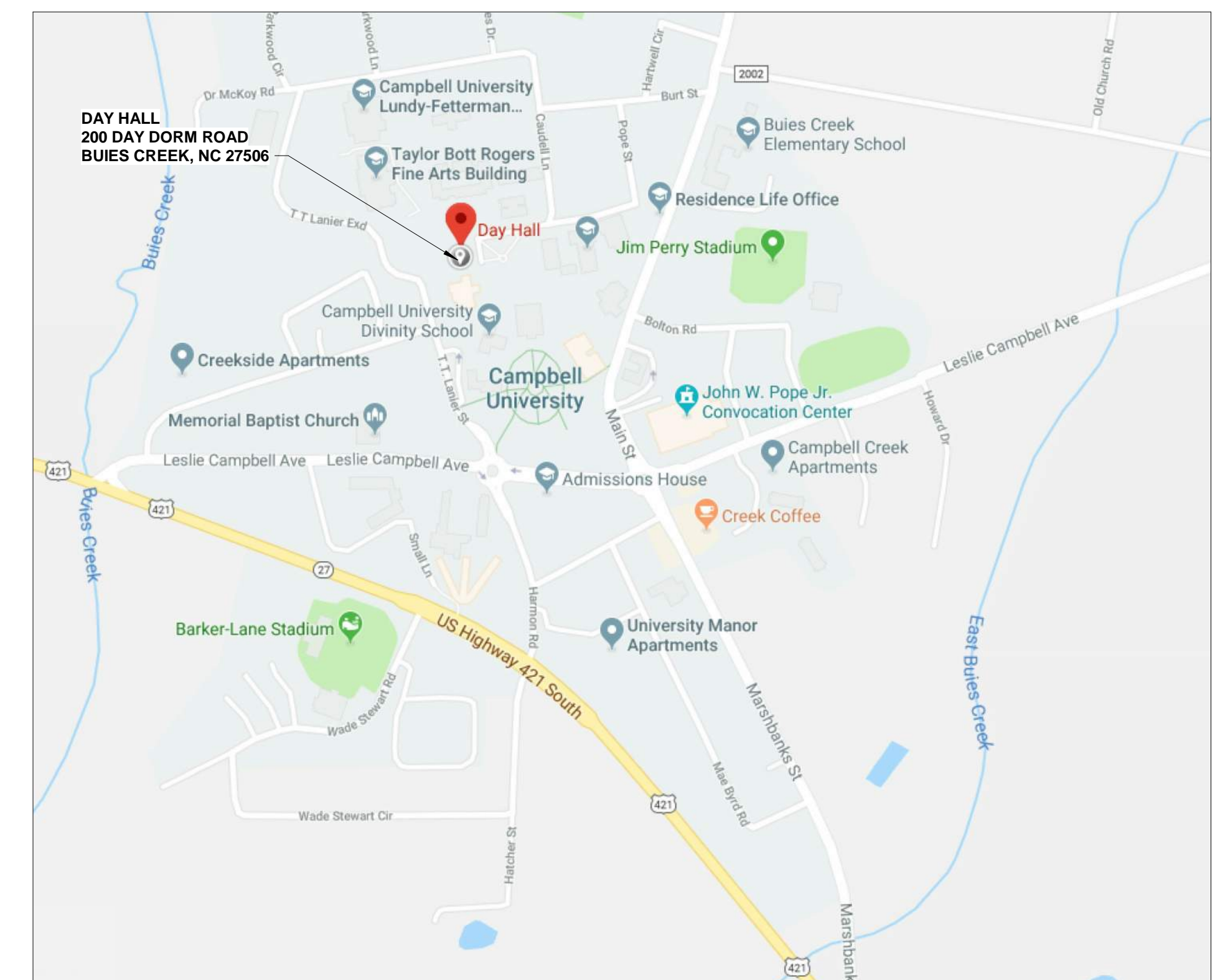
200 Day Dorm Road
Buies Creek, NC 27506

PERMIT SET - 09.11.2018



Reviewed For Code Compliance By:
D. Banks Wallace
Chief Deputy Fire Marshal
12/20/2018 2:05:10 PM

VICINITY MAP



LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

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ISSUE FOR
PERMIT SET

ISSUE DATE
09.11.2018

REVISIONS NO.	REASON	DATE
1	AV Revisions by Owner and Quality Control	08.20.18
2	Revisions by Owner	09.11.18

PROJECT TEAM
PRINCIPAL IN CHARGE
ROB KLINEDINST, AIA
PROJECT MANAGER
SHANE WEBSTER, AIA
DESIGN TEAM
LITTLE
PROJECT NAME

CAMPBELL UNIVERSITY DAY HALL RENOVATIONS

PROJECT NO.
513.9660.00

SHEET TITLE
COVER SHEET

SHEET NUMBER
CS

OWNER
Campbell University
143 Main Street
Buies Creek, NC 27506
(919) 893-1200
Jim Roberts

ARCHITECT
LITTLE
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(919) 474-2500
Shane Webster, AIA

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RMF Engineering
8081 Arco Corporate Drive, Suite 300
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Blake Smith, PE

MECHANICAL
RMF Engineering
8081 Arco Corporate Drive, Suite 330
Raleigh, NC 27617
(919) 941-9876
Blake Smith, PE

ELECTRICAL
RMF Engineering
8081 Arco Corporate Drive, Suite 300
Raleigh, NC 27617
(919) 941-9876
Anastasiya Smurygina, PE

ABBREVIATIONS

Abbr.	Abbreviated Phrase	Abbr.	Abbreviated Phrase	Abbr.	Abbreviated Phrase
ACT	ACOUSTIC CEILING TILE	FOS	FACE OF SHEATHING	PED	PEDESTAL, PEDESTRIAN, PEDIATRIC
ADA	AMERICANS WITH DISABILITIES ACT	FR	FIRE RETARDANT TREATED	PERF	PERFORATE(D)
ADJ	ADJUSTABLE	FT	FOOT, FEET	PFB	PREFABRICATE(D)
AED	AUTOMATED EXTERNAL DEFIBRILLATOR	FURR	FURRED, (ING)	PFN	PREFINISHED
AFB	ABOVE FINISH FLOOR	FUT	FUTURE	PL, PLAM	PLASTIC LAMINATE
AL	ALUMINUM	FWC	FABRIC WALL COVERING	PLAS	PLASTER, PLASTIC
ALT	ALTERNATE	FWP	FABRIC WRAPPED PANEL	PLWD	PLYWOOD
AMC	ACOUSTICAL METAL CEILING	GA	GAUGE	PNL	PANEL
APPROX	APPROXIMATE	GALV	GALVANIZED	PNT	PAINT(ED)
ARCH	ARCHITECT(URAL)	GB	GLASS BOARD	PR	PAIR
AWC	ACOUSTICAL WOOD CEILING	GC	GENERAL CONTRACTOR	PT	PRESSURE TREATED
		GL	GLASS, GLAZING	PTN	PARTITION
BBD	BULLETIN BOARD	GR	GROUT	QT	QUARRY TILE, QUART
BD	BOARD	GRAN	GRANITE	RB	RUBBER BASE
BO	BOTTOM OF	GWB	GYP SUM WALL BOARD	RBT	RUBBER TILE
BOT	BOTTOM	GYP	GYP SUM	RCC	RECEPTACLE
				REF	REFERENCE, REFER
CL, CL	CENTERLINE	HC	HOLLOW CORE	REFR	REFRIGERATOR
CAB	CABINET	HD	HAND DRYER	REM	REMOVE
CC	CUBICLE CURTAIN	HDR	HEADER	REQD	REQUIRED
CIR	CIRCLE	HDW	HARDWARE	RM	ROOM
CLG	CEILING	HGT	HEIGHT	RS	RESILIENT
CLOS	CLOSET	HORIZ	HORIZONTAL(LY)		
CLR	CLEAR(ANCE)	HR	HOUR		
COL	COLUMN	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	S&R	SHELF AND ROD
CON	CONCRETE	HW	HARDWOOD	SCW	SOLID CORE WOOD
CONC	CONCRETE	HWD	HARDWOOD	SECT	SECTION
CONST	CONSTRUCTION			SF	SQUARE FEET
CONT	CONTINUOUS / CONTINUE	IBC	INTERNATIONAL BUILDING CODE	SFRM	SPRAYED FIRE RESISTIVE MATERIAL
CONTR	CONTRACTOR	ID	INSIDE DIAMETER	SHR	SHOWER
COORD	COORDINATE	INCL	INCLUDE(D), (ING)	SM	SIMILAR
CPT	CARPET	INSUL	INSULATE(D), (ING)	SPEC	SPECIFICATION(S)
CRB	COVED RUBBER BASE	INT	INTERIOR	SS	STAINLESS STEEL
CT	CERAMIC OR PORCELAIN TILE			SSM	SOLID SURFACE MATERIAL
CTR	CENTER	JAN	JANITOR'S CLOSET	ST	STONE
		JT	JOINT	STD	STANDARD
D	DRYER			STOR	STORAGE
DBL	DOUBLE	KIT	KITCHEN	SUSP	SUSPENDED
DEG	DEGREE	KPL	KICK PLATE	SUSP CLG	SUSPENDED CEILING
DEMO	DEMOLISH / DEMOLITION			SV	SHEET VINYL
DET, DTL	DETAIL	L	LENGTH	SVS	SYSTEM
DIA	DIAMETER	LAM	LAMINATE(D)		
DIM	DIMENSION	LBL	LABEL	TEMP	TEMPERED, TEMPORARY
DR	DOOR	LCKR	LOCKER	TME	TO MATCH EXISTING
DS	DOWNSPOUT	LIN	LINOLEUM	TYP	TYPICAL
DWG	DRAWING(S)	LT	LIGHT		
DWN	DOWN	LVL	LAMINATED VENEER LUMBER	UNO	UNLESS NOTED OTHERWISE
DWR	DRAWER	LVT	LUXURY VINYL TILE		
				VB	VINYL BASE
EA	EACH	MATL	MATERIAL(S)	VCT	VINYL COMPOSITE TILE
EL	ELEVATION	MAX	MAXIMUM	VERT	VERTICALLY
ELEC	ELECTRICAL	MB	MARKER BOARD	VIF	VERIFY IN FIELD
ELEV	ELEVATOR	MECH	MECHANICAL	VIN	VINYL
EDS	EDGE OF SLAB	MFR	MANUFACTURE(R)	VT	VINYL TILE
EP	EPOXY FLOORING	MIN	MINIMUM	VWC	VINYL WALL COVERING
EQ	EQUAL(LY)	MISC	MISCELLANEOUS		
EQPT	EQUIPMENT	MP	METAL PANEL	W	WIDTH
EW	EACH WAY	MTD	MOUNTED	W/	WITH
EWC	ELECTRIC WATER COOLER	MTL	METAL	W/O	WITHOUT
EXIST	EXISTING	MULL	MULLION	WB	WOOD BASE
EXP	EXPANSION	MWK	MILLWORK	WC	WATER CLOSET
EXT	EXTERIOR	N	NORTH	WD	WOOD
		FAAP	FIRE ALARM ANNUNCIATOR PANEL	WGT	WEIGHT
		FBO	FURNISHED BY OTHERS	WIN	WINDOW
		FE	FIRE EXTINGUISHER	WTW	WALL TO WALL
		FEC	FIRE EXTINGUISHER CABINET		
		FF	FINISH FLOOR		
		FIN	FINISHED		
		FLR	FLOOR(ING)		
		FLUOR	FLUORESCENT		
		FO	FACE OF		
		F0B	FACE OF BRICK		
		FOG	FACE OF GLASS		

GENERAL NOTES

- FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS.
- WHERE NEW PARTITION ALIGNS WITH THE FACE OF AN EXISTING FURRED COLUMN OR PARTITION, REMOVE CORNER BEAD, TAPE AND SPACKLE NEW PARTITION TO EXISTING GYP SUM BOARD.
- ALL EXISTING WALL SURFACES AND PARTITIONS TO REMAIN SHALL BE PATCHED, SPACKLED AND SANDED SMOOTH SO AS NOT TO LEAVE ANY EVIDENCE OF DEMOLITION OR REPAIR WORK. PREPARE SURFACES FOR NEW FINISHES AS REQUIRED.
- PROVIDE SEMI-RECESSED FIRE EXTINGUISHER CABINETS, SMOKE DETECTORS, AND ALL OTHER LIFE SAFETY DEVICES AS INDICATED ON DRAWINGS. DO NOT PLACE IN FIRE RATED PARTITIONS.
- ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS WHICH INCLUDE THE OWNER/CONTRACTOR AGREEMENT, THE DRAWINGS AND ALL ADDENDA AND MODIFICATIONS ISSUED BY THE ARCHITECT.
- THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL CONFIRM THAT WORK IS BUILDABLE AS SHOWN. ANY CONFLICTS OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF ANY WORK IN QUESTION.
- CONTRACTOR SHALL COORDINATE WITH OWNER THE SCHEDULE FOR ALL TELEPHONE COMPANY AND DATA INSTALLATIONS.
- "ALIGN" SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE.
- CONTRACTOR SHALL COORDINATE AND PROVIDE METAL BACKING PLATES OR SOLID WOOD BLOCKING (FIRE TREATED) IN PARTITIONS AND CEILING FOR ALL MILLWORK, WALL AND CEILING ATTACHED ITEMS AS REQUIRED BY EACH SPECIFIC ITEM.
- ALL WORK NOTED "BY OTHERS" OR "NIC" SHALL BE PROVIDED BY OWNER OR UNDER SEPARATE CONTRACT.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. ALL PARTITION LOCATIONS, DIMENSIONS AND TYPES, ALL DOOR AND WINDOW LOCATIONS SHALL BE AS SHOWN ON PARTITION PLAN. IN CASE OF CONFLICT, NOTIFY ARCHITECT; PARTITION PLAN BY DESIGN INTENT ARCHITECT SUPERSEDES OTHER PLANS.
- ALL PARTITIONS ARE DIMENSIONED FROM FINISH FACE TO FINISH FACE, UNLESS OTHERWISE NOTED. ALL DIMENSIONS MARKED "CLEAR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF ALL FINISHES INCLUDING CARPET, CERAMIC TILE, VCT, ETC.
- PARTITIONS AT BUILDING PERIMETER SHALL BE CENTERED ON CENTER LINE OF COLUMN OR WINDOW MULLION, UNLESS OTHERWISE NOTED.
- COLUMN CENTER LINES (OR GRID LINES) ARE SHOWN FOR DIMENSIONING, VERIFY EXACT LOCATIONS IN FIELD.
- PARTITION TYPES ENCLOSING ROOMS AND SPACES SHALL BE CONTINUOUS THROUGHOUT ENTIRE ROOM OR SPACE.
- PROVIDE ACOUSTICAL CAULKING AROUND ALL PERIMETER EDGES AND/OR PENETRATIONS AT SOUND INSULATED WALLS, OFFSET ELECTRICAL AND TELEPHONE OUTLETS 16" MINIMUM IN SEPARATE STUD CAVITIES.

LIST OF DRAWING SHEETS

Sheet Number	Sheet Name	Current Revision	Current Revision Date
00 - COVER SHEET			
CS	COVER SHEET	2	09.11.18
01 - GENERAL / LIFE SAFETY			
G001	GENERAL INFORMATION AND SHEET INDEX	2	09.11.18
G002	BUILDING CODE SUMMARY	2	09.11.18
G003	DECISION DIAGRAM	1	08.20.18
G011	FIRE RESISTANCE DESIGNS		
G012	FIRE RESISTANCE DESIGNS		
G111	LIFE SAFETY PLANS - LEVELS 0 AND 1	2	09.11.18
G112	LIFE SAFETY PLANS - LEVELS 2 AND 3	2	09.11.18
04 - ARCHITECTURE			
AD111	DEMOLITION FLOOR PLANS - LEVELS 0 AND 1	3	09.11.18
AD112	DEMOLITION FLOOR PLANS - LEVELS 2 AND 3, DEMOLITION ROOF PLAN	3	09.11.18
A010	WALL TYPES - INTERIOR PARTITIONS		
A111	FLOOR PLANS - BASE BID - LEVELS 0 AND 1	2	09.11.18
A112	FLOOR PLANS - BASE BID - LEVELS 2 AND 3	2	09.11.18
A113	ENLARGED COURTYARD / MECHANICAL YARD PLAN AND DETAILS	2	09.11.18
A114	ROOF PLAN - BASE BID	1	08.20.18
A121	REFLECTED CEILING PLANS - BASE BID - LEVELS 0 AND 1	2	09.11.18
A122	REFLECTED CEILING PLANS - BASE BID - LEVELS 2 AND 3	2	09.11.18
A211	EXTERIOR ELEVATIONS - BASE BID	2	09.11.18
A321	WALL SECTIONS	2	09.11.18
A322	WALL SECTIONS AND DETAILS	2	09.11.18
A401	ENLARGED TOILET PLANS AND ELEVATIONS, ENLARGED WORKROOM PLAN	1	09.11.18
A601	VERTICAL CIRCULATION	2	09.11.18
A602	VERTICAL CIRCULATION	2	09.11.18
A801	FINISH PLAN - LEVEL 1, FINISH SCHEDULE AND DETAILS	2	09.11.18
A802	FINISH PLAN - LEVELS 2 AND 3	2	09.11.18
A821	INTERIOR ELEVATIONS	2	09.11.18
A831	INTERIOR SECTIONS	1	08.20.18
A851	FURNITURE PLANS - BASE BID - LEVEL 1	2	09.11.18
A852	FURNITURE PLANS - BASE BID - LEVELS 2 AND 3	2	09.11.18
A901	DOOR SCHEDULE, DOOR AND FRAME TYPES AND DETAILS	2	09.11.18

Sheet Number	Sheet Name	Current Revision	Current Revision Date
06 - STRUCTURAL			
S001	GENERAL NOTES		
S002	STATEMENT OF SPECIAL INSPECTIONS		
S101	FLOOR PLANS - LEVELS 0 AND 1	2	09.11.18
S102	FLOOR PLANS - LEVELS 2 AND 3	2	09.11.18
S103	ROOF FRAMING PLAN		
S201	FOUNDATION DETAILS		
S202	FOUNDATION DETAILS	2	09.11.18
S211	FLOOR FRAMING DETAILS		
S221	ROOF FRAMING DETAILS		
S301	MASONRY DETAILS		

Sheet Number	Sheet Name	Current Revision	Current Revision Date
P001 - PLUMBING NOTES, SYMBOLS AND ABBREVIATIONS			
P101	SANITARY/DOMESTIC WATER DEMOLITION FLOOR PLANS - LEVELS 0 AND 1		
P102	SANITARY/DOMESTIC WATER DEMOLITION FLOOR PLANS - LEVELS 2 AND 3		
P201	SANITARY FLOOR PLANS - LEVELS 0 AND 1	1	08.20.18
P202	SANITARY FLOOR PLANS - LEVELS 2 AND 3	1	09.11.18
P211	DOMESTIC WATER FLOOR PLANS - LEVELS 0 AND 1		
P212	DOMESTIC WATER FLOOR PLANS - LEVELS 2 AND 3	1	09.11.18
P401	PLUMBING ENLARGED PLANS	1	09.11.18
P501	PLUMBING DETAILS		
P601	PLUMBING SCHEDULES	1	09.11.18
P701	PLUMBING RISER DIAGRAMS	1	09.11.18

Sheet Number	Sheet Name	Current Revision	Current Revision Date
M001 - MECHANICAL NOTES, SYMBOLS AND ABBREVIATIONS			
M101	MECHANICAL DEMOLITION FLOOR PLANS - LEVELS 0 AND 1		
M102	MECHANICAL DEMOLITION FLOOR PLANS - LEVELS 2 AND 3		
M103	MECHANICAL DEMOLITION PLANS - ROOF LEVEL		
M201	MECHANICAL FLOOR PLANS - LEVELS 0 AND 1	2	09.11.18
M202	MECHANICAL FLOOR PLANS - LEVELS 2 AND 3	2	09.11.18
M203	MECHANICAL FLOOR PLANS - ROOF LEVEL	1	09.11.18
M301	MECHANICAL SECTIONS	2	09.11.18
M501	MECHANICAL DETAILS		
M502	MECHANICAL DETAILS		
M601	MECHANICAL SCHEDULES	2	09.11.18
M701	MECHANICAL CONTROLS		
M702	MECHANICAL CONTROLS	1	09.11.18

Sheet Number	Sheet Name	Current Revision	Current Revision Date
E001 - ELECTRICAL SYMBOLS AND ABBREVIATIONS			
E002	ELECTRICAL SPECIFICATIONS		
E003	ELECTRICAL GENERAL NOTES	1	08.20.18
E101	ELECTRICAL POWER FLOOR PLANS - LEVELS 0 AND 1	1	08.20.18
E102	ELECTRICAL POWER FLOOR PLANS - LEVELS 2 AND 3	2	09.11.18
E103	ELECTRICAL POWER FLOOR PLANS - LEVEL 3 PHASE 2	2	09.11.18
E201	ELECTRICAL LIGHTING FLOOR PLANS - LEVELS 0 AND 1	2	09.11.18
E202	ELECTRICAL LIGHTING FLOOR PLANS - LEVELS 2 AND 3	1	08.20.18
E203	ELECTRICAL LIGHTING FLOOR PLANS - LEVEL 3 PHASE 2	1	08.20.18
E301	ELECTRICAL SPECIAL SYSTEMS FLOOR PLANS - LEVELS 0 AND 1	1	08.20.18
E302	ELECTRICAL SPECIAL SYSTEMS FLOOR PLANS - LEVELS 2 AND 3	2	09.11.18
E303	ELECTRICAL SPECIAL SYSTEMS FLOOR PLANS - LEVEL 3 PHASE 2	1	08.20.18
E401	ELECTRICAL ENLARGED PLANS	2	09.11.18
E501	ELECTRICAL DETAILS		
E502	ELECTRICAL DETAILS		
E503	ELECTRICAL DETAILS	2	09.11.18
E504	ELECTRICAL DETAILS		
E601	ELECTRICAL SCHEDULES	2	09.11.18
E602	ELECTRICAL PANELBOARD SCHEDULES	1	08.20.18
E603	ELECTRICAL PANELBOARD SCHEDULES	2	09.11.18
E701	ELECTRICAL SINGLE LINE DIAGRAM	2	09.11.18
E702	ELECTRICAL FIRE ALARM RISER DIAGRAM		

SYMBOLS

ARCHITECTURAL ELEMENTS	VIEW ELEMENTS	SITE & LOCATION ELEMENTS
ROOM NAME 101	CEILING TYPE ACT-1 FINISH ELEVATION +1'-0"	Level Name 0'-0"
DOOR NUMBER 2222	DETAIL MARKER A301	ELEVATION DATUM POINT
WALL TAG 0A00A.XX	SECTION MARKER SIM A101	COLUMN GRID AND GRID BUBBLES AA
ALUMINUM FRAMING SYSTEM TAG AFS-20	EXTERIOR ELEVATION MARKER 1 AS.0.2B	NORTH ARROW
WINDOW TAG A	INTERIOR ELEVATION MARKER 1 AS.0.2B	ANNOTATIONS (00)
TOILET ACCESSORIES TAG X		SHEET KEYNOTE (00)
MATERIALS TAG ?		
EQUIPMENT TAG PTD		
CARD READER CR		

UPDATED LIST OF DRAWING SHEETS

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09/11/2018

ISSUE FOR PERMIT SET

ISSUE DATE 09.11.2018

NO.	REASON	DATE
1	AV Revisions by Owner and Quality Control	08.20.18
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PROJECT TEAM
PRINCIPAL IN CHARGE
ROB KLINEDINST, AIA
PROJECT MANAGER
SHANE WEBSTER, AIA
DESIGN TEAM
LITTLE
REGISTERED NAME

CAMPBELL UNIVERSITY
DAY HALL RENOVATIONS

PROJECT NO.
513.9660.00

SHEET TITLE
GENERAL INFORMATION AND SHEET INDEX

SHEET NUMBER
G001

2012 APPENDIX B FOR ALL COMMERCIAL PROJECTS

Name of Project: **CAMPBELL DAY HALL RENOVATIONS**
 Address: **CAMPBELL UNIVERSITY, BUIES CREEK, NC**
 Proposed Use: **BUSINESS**
 Owner or Authorized Agent: **LITTLE / SHANE WEBSTER** Phone # **919-474-2524**
 Code Enforcement Jurisdiction: City County State

LEAD DESIGN PROFESSIONAL: Little Diversified Architectural Consulting

DESIGNER	FIRM	NAME	LICENSE #	PHONE #	E-MAIL
Architectural	LITTLE	Shane Webster	6452	919-474-2524	swebster@littleonline.com
Civil	NA	-	-	-	-
Electrical	RMF	Anastasiya Smurygina	04480	919-941-9876	anastasiya.smurygina@rmf.com
Fire Alarm	NA	-	-	-	-
Plumbing	RMF	Blake Smith	041471	919-941-9876	blake.smith@rmf.com
Mechanical	RMF	Blake Smith	041471	919-941-9876	blake.smith@rmf.com
Sprinkler-Standpipe	NA	-	-	-	-
Structural	LITTLE	David Blankford	027106	919-474-2549	david.blankford@littleonline.com
Retaining walls > 5' high:	-	-	-	-	-
Other:	-	-	-	-	-

2012 EDITION OF NC CODE FOR:
 New Construction Renovation (Existing Bldg) Addition Upfit Alteration Reconstruction Repair
 CONSTRUCTED: (date) **1937** ORIGINAL USE(S): (ch.3) **RESIDENTIAL** PROPOSED USE(S): (ch.3) **BUSINESS**
 RENOVATED: (date) **AUG. 1959** CURRENT USE(S) (ch.3) **NOT OCCUPIED**
 * 1958 NCSBC used for 1959 Additions to original building.
 * 2015 EXISTING BUILDING CODE

BASIC BUILDING DATA

Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B

Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
 Standpipes: No Yes Class: I II III Wet Dry
 Fire District: No Yes (Primary) Flood Hazard Area: No Yes
 Building Height: **40'** Feet

Gross Building Area (sq. ft.):	19.616	sf	RENO/UPFIT	FLOOR	EXISTING	NEW	RENO/UPFIT
6th Floor				14th Floor			
5th Floor				13th Floor			
4th Floor				12th Floor			
3rd Floor	5,929	269	5,929	11th Floor			
2nd Floor	5,929	269	5,929	10th Floor			
1st Floor	5,929	269	5,929	9th Floor			
Basement	963	59	963	8th Floor			
TOTAL --SF	18,750	866	18,750	7th Floor			

ALLOWABLE AREA

Primary Occupancy: Assembly A-1 A-2 A-3 A-4 A-5
 Business Educational Factory F-1 F-2 F-3 F-4 F-5
 Hazardous H-1 H-2 H-3 H-4 H-5 H-6
 Institutional I-1 I-2 I-3 I-4 I-5
 I-3 Use Condition I-1 I-2 I-3 I-4 I-5
 Mercantile Residential R-1 R-2 R-3 R-4
 Storage S-1 S-2 S-3 S-4 S-5
 Utility and Miscellaneous Parking Garage Open Enclosed Repair

Accessory Occupancy: Assembly A-1 A-2 A-3 A-4 A-5
 Business Educational Factory F-1 F-2 F-3 F-4 F-5
 Hazardous H-1 H-2 H-3 H-4 H-5 H-6
 Institutional I-1 I-2 I-3 I-4 I-5
 I-3 Use Condition I-1 I-2 I-3 I-4 I-5
 Mercantile Residential R-1 R-2 R-3 R-4
 Storage S-1 S-2 S-3 S-4 S-5
 Utility and Miscellaneous Parking Garage Open Enclosed Repair

Incidental Uses: (Table 508.2.5)
 Furnace room where any piece of equipment is over 400,000 Btu per hour input
 Rooms with boilers where the largest piece of equipment is over 15 ps and 10 horsepower
 Refrigerant machine room
 Hydrogen cutoff rooms, not classified as Group H
 Incinerator rooms
 Paint shops not classified as Group H, located in occupancies other than Group F
 Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy
 Laundry rooms over 100 square feet
 Group I-3 cells equipped with padded surfaces
 Group I-2 waste and linen collection rooms over 100 square feet
 Waste and linen collection rooms over 100 square feet
 Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power or uninterrupted power supplies.
 Rooms containing fire pumps
 Group I-2 storage rooms over 100 square feet
 Group I-2 commercial kitchens
 Group I-2 handrails equal to or less than 100 square feet
 Group I-2 rooms or spaces that contain fuel-fired heating equipment

Special Provisions: 402 403 404 405 406 407 408 409 410
 411 412 413 414 415 416 417 418 419
 420 421 422 423 424 425 426 427 428 429

Mixed Occupancy: No Yes Separation: **HR** Exception: _____

Incidental Use Separation (508.2.5)
 This separation is not exempt as a Non-Separated Use (see exceptions)
 Non-Separated Mixed Occupancy (508.3)
 The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
 Separated Mixed Occupancy (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 floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area of Occupancy A	Actual Area of Occupancy B	Allowable Area of Occupancy A	Allowable Area of Occupancy B	Ratio
				< 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 AREA	(C) AREA FOR OPEN SPACE INCREASE ¹	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA OR UNLIMITED ³	(F) MAXIMUM BUILDING AREA ⁴
LEVEL 1	-	-	-	NA	NOT USED		
LEVEL 2	-	-	-	NA	NOT USED		
LEVEL 3	-	-	-	NA	NOT USED		

¹ Frontage area increases from Section 506.2 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = (P)
 b. Total Building Perimeter = (P)
 c. Ratio (P/P) = (P/P)
 d. W = Minimum width of public way = (W)
 e. Percent of frontage increase = 1 + 100 [(P/P) - 0.25] x W/30 = (%)
² The sprinkler increase per Section 506.3 is as follows:
 a. Multi-story building = 200 percent
 b. Single story building = 300 percent
³ Unlimited area applicable under conditions of Section 507
⁴ Maximum Building Area = total number of stories in the building x E (506.4)
⁵ The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

ALLOWABLE HEIGHT

Type of Construction	ALLOWABLE (TABLE 503) Type	INCREASE FOR SPRINKLERS	SHOWN ON PLANS Type IIB	CODE REFERENCE
Building Hgt. in Feet	Feet 55	Feet+H=20'	NA	602.2
Building Hgt. in Stories	Stories 3	Stories+1=	NA	Stories 3

FIRE PROTECTION REQUIREMENTS (EXISTING)

Life Safety Plan Sheets: G111, G112

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQD	RATING PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATED JOINTS	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		0 HR	0 HR				
Bearing Walls		NA	NA				
Exterior	> 30'						
North	> 30'	0 N.C.	NA				
East	> 30'	0 N.C.	NA				
West	> 30'	0 N.C.	NA				
South	> 30'	0 N.C.	NA				
Interior		0 N.C.	NA				
Nonbearing walls and Partitions							
Exterior	> 30'						
North	> 10'	0 N.C.	0 N.C.				
East	> 30'	0 N.C.	0 N.C.				
West	> 30'	0 N.C.	0 N.C.				
South	> 30'	0 N.C.	0 N.C.				
Interior Walls and Partitions		0 N.C.	0 N.C.				
Floor Construction including supporting beams and joists		0 N.C.	0 N.C.				
Roof Construction including supporting beams and joists		0 HR	0 HR				
Shafts - Exit	G012	1 HR	1 HR	LK L0410 LK L0505			
Shafts - Other	G011	1 HR	1 HR	LK L0415			
Corridor Separation	N.R.	N.R.	N.R.				
Occupancy Separation	NA	NA	NA				
Party/Fire Wall Separation	NA	NA	NA				
Smoke Barrier Separation	N.R.	N.R.	N.R.				
Tenant Separation	N.R.	N.R.	N.R.				
Incidental Use Separation	1 HR						

*PER 508.2.5 ** Ceiling panels are not a part of floor assembly.

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: No Yes
 Exit Signs: No Yes
 Fire Alarm: No Yes
 Smoke Detection Systems: No Yes Partial
 Panic Hardware: No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # _____

Fire and/or smoke rated wall locations (chapter 7)
 Assumed and real property line locations
 Exterior wall opening area with respect to distance to assumed property lines (706.8)
 Existing Structures within 30' of the proposed building
 Occupancy types for each area as it related to occupant load calculation (Table 1004.1.1)
 Occupant loads for each area
 Exit access 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 door can accommodate based on egress width (1005.1)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 Location of doors with panic hardware (1008.1.10)
 Location of doors with delayed egress locks and the amount of delay (1008.1.9.7)
 Location of doors with electromagnetic egress locks (1008.1.9.8)
 Location of doors with hold-open devices
 Location of emergency escape windows (1029)
 The square footage of each smoke compartment (407.4)
 Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
NA	-	-	-	-	-	-	-

ACCESSIBLE PARKING

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	
Business	Existing	Existing	Existing	Existing	Existing	Existing
TOTAL	Existing	Existing	Existing	Existing	Existing	Existing

STRUCTURAL DESIGN

No Change to Building Structural Design

DESIGN LOADS:

Importance Factors:
 Wind (V) _____
 Snow (S) _____
 Seismic (I) _____

Live Load:
 Roof _____ psf
 Mezzanine _____ psf
 Floor _____ psf

Ground Snow Load: _____ psf

Wind Load: Basic Speed _____ mph (ASCE-7)
 Exposure Category _____
 Wind Base Shears (for MWFRS) Vx = _____ Vy = _____

SEISMIC DESIGN CATEGORY: A B C D

Provide the following Seismic Design Parameters:
 Occupancy Category (Table 1604.4) I II III IV
 Spectral Response Acceleration Sa _____ %g S1 _____ %g
 Site Classification (Table 1613.3.2) A B C D E F
 Data Source: Field Test Presumptive Historical Data

Basic Structural System (check one)
 Bearing Wall Dual w/ Special Moment Frame
 Building Frame Dual w/ Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum

Seismic Base Shear: V = _____
 Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
 Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:
 Field Test (provide copy of test report) _____ psf
 Presumptive Bearing Capacity _____ psf
 Pile size, type, and capacity _____

SPECIAL INSPECTIONS REQUIRED: Yes No

PLUMBING FIXTURE REQUIREMENTS (Table 2902.1)

USE	WATER CLOSETS		URINALS		LAVATORIES		SHOWERS/ TUBS	DRINKING FOUNTAINS
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	REGULAR	ACCESSIBLE
SPACE	EXISTING	-	-	-	-	-	-	-
	NEW	-	-	-	-	-	-	-
	REQUIRED	-	-	-	-	-	-	-

SPECIAL APPROVALS

Special Approval: (Local Jurisdiction, Department of Insurance, ICC, etc., describe below)

ENERGY SUMMARY

ENERGY REQUIREMENTS:
 The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs. annual energy cost for the proposed design.
 Climate Zone: 3 4 5

Method of Compliance:

Prescriptive (Energy Code) Performance (Energy Code) Prescriptive (ASHRAE 90.1) Performance (ASHRAE 90.1)

THERMAL ENVELOPE (ADDITION / EXISTING NO CHANGE)

Roof/ceiling assembly (each assembly)

Description of assembly	Membrane roof on Polyiso on metal deck
U-Value of total assembly	
R-Value of insulation	R-30
Skylights in each assembly	n/a
U-Value of skylight	n/a
total square footage of skylights in each assembly	n/a

Exterior Walls

Description of assembly	Brick/Veneer over airspace over 2" Rigid Insulation over CMU
U-Value of total assembly	
R-Value of insulation	R-15
Openings (windows or doors with glazing)	n/a
U-Value of assembly	
N.C. = Non Combustible	
N.R. = Not Required	
NA = Not Applicable	
S = Section	
low e required, if applicable	
Door R-Value	

Walls below grade (each assembly)

Description of assembly	Brick/CMU Veneer over air space over weather barrier over 2" Rigid Insulation over CMU
U-Value of total assembly	
R-Value of insulation	R-15

Floors over unconditioned space (each assembly)

Description of assembly	5" Slab on Grade
U-Value of total assembly	
R-Value of insulation	R-15
Horizontal/vertical requirement	Vertical
Slab heated	n/a

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
 winter dry bulb _____
 summer dry bulb _____
 relative humidity _____

Interior design conditions
 winter dry bulb _____
 summer dry bulb _____
 relative humidity _____

Building heating load _____
Building cooling load _____

Mechanical Spacing Conditioning System

Unitary description of unit heating efficiency _____
 cooling efficiency _____
 size category of unit _____

Boiler size category, if oversized, state reason _____
 Chiller size category, if oversized, state reason _____

List equipment efficiencies

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: No Change to Building System
 Energy Code: Prescriptive Performance
 ASHRAE 90.1: Prescriptive Performance

Lighting schedule (each fixture type)
 Lamp type required in future _____
 number of lamps in future _____
 ballast type used in the future _____
 number of ballasts in future _____
 total wattage per fixture _____
 total interior wattage specified vs. allowed (whole building or space by space) _____
 total exterior wattage specified vs. allowed _____

Additional Prescriptive Compliance

- 506.2.1 More efficient mechanical equipment
- 506.2.2 Reduced lighting power density
- 506.2.3 Energy Recovery Ventilation Systems
- 506.2.4 Higher efficiency service water heating
- 506.2.5 On-site supply of renewable energy
- 506.2.6 Automatic daylighting control systems

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PROJECT TEAM
 PRINCIPAL IN CHARGE: **ROB KLINEDINST, AIA**
 PROJECT MANAGER: **SHANE WEBSTER, AIA**
 DESIGN TEAM: **LITTLE**
 PROJECT NAME: **CAMPBELL UNIVERSITY DAY HALL RENOVATIONS**

PROJECT NO.: **513.9660.00**
 SHEET TITLE: **BUILDING CODE SUMMARY**

ISSUE FOR: **PERMIT SET**

ISSUE DATE: **09.11.2018**

REVISIONS:

NO.	REASON	DATE
1	AV Revisions by Owner and Quality Control	08.20.18
2	Revisions by Owner	09.11.18

PROJECT NO.: **513.9660.00**
 SHEET TITLE: **BUILDING CODE SUMMARY**

ISSUE FOR: **PERMIT SET**

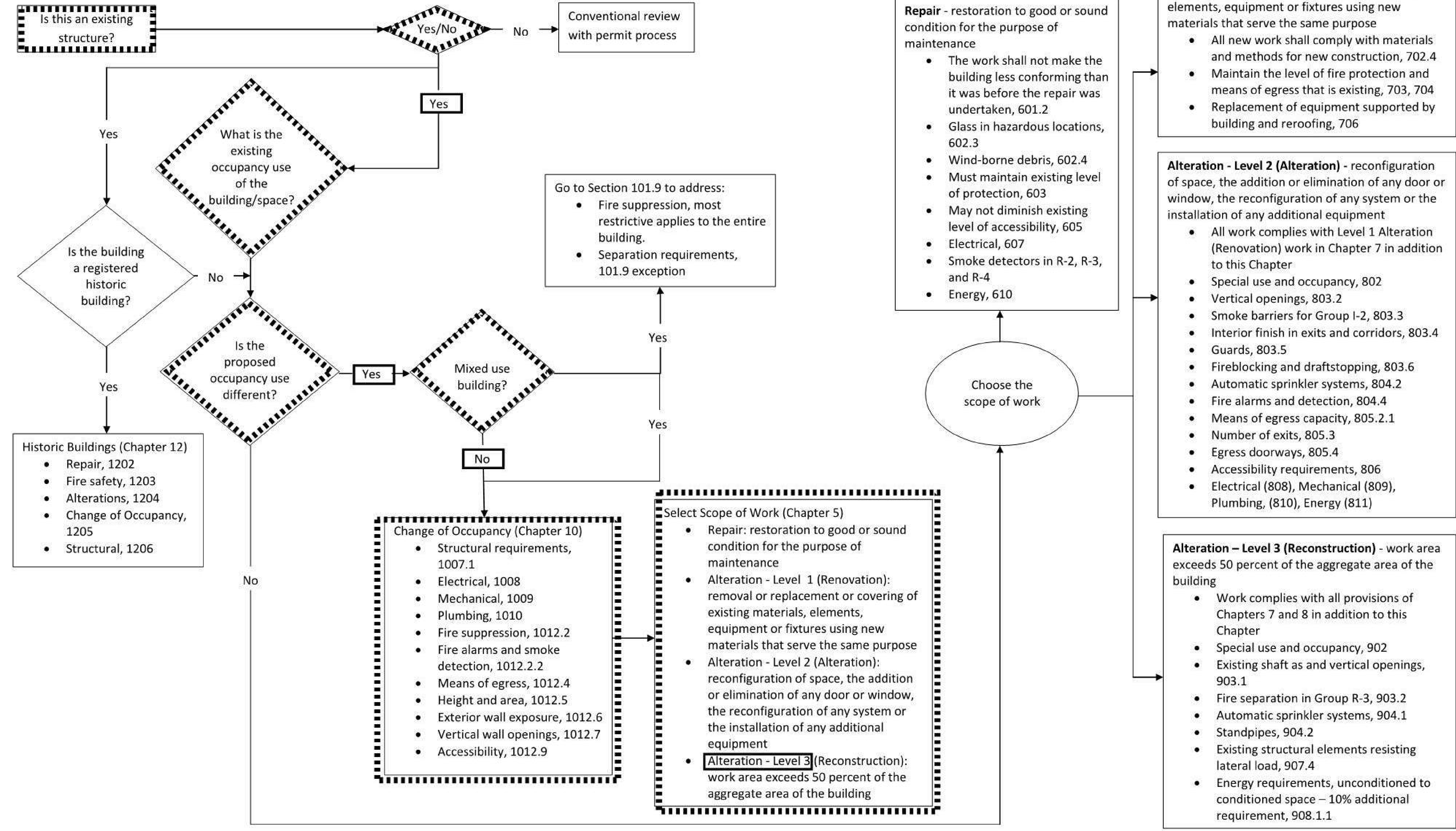
ISSUE DATE: **09.11.2018**

REVISIONS:

NO.	REASON	DATE
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3/11/15

NC Existing Building Code Decision Diagram (Work Area Compliance Method)



09/11/2018

ISSUE FOR PERMIT SET

ISSUE DATE 09.11.2018

REVISIONS

NO.	REASON	DATE
1	AV Revisions by Owner and Quality Control	08.20.18

PROJECT TEAM

PRINCIPAL IN CHARGE: ROB KLINEINST, AIA

PROJECT MANAGER: SHANE WEBSTER, AIA

DESIGN TEAM Designer

PROJECT NAME

CAMPBELL UNIVERSITY DAY HALL RENOVATIONS

PROJECT NO.

513.9660.00

SHEET TITLE

DECISION DIAGRAM

SHEET NUMBER

G003

Design No. U415
BXUV.U415
Fire Resistance Ratings - ANSI/UL 263

Page Bottom

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot address every construction nuance encountered in the field.
When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer not for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specific alternate materials and alternate methods of construction.
Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variations
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variations

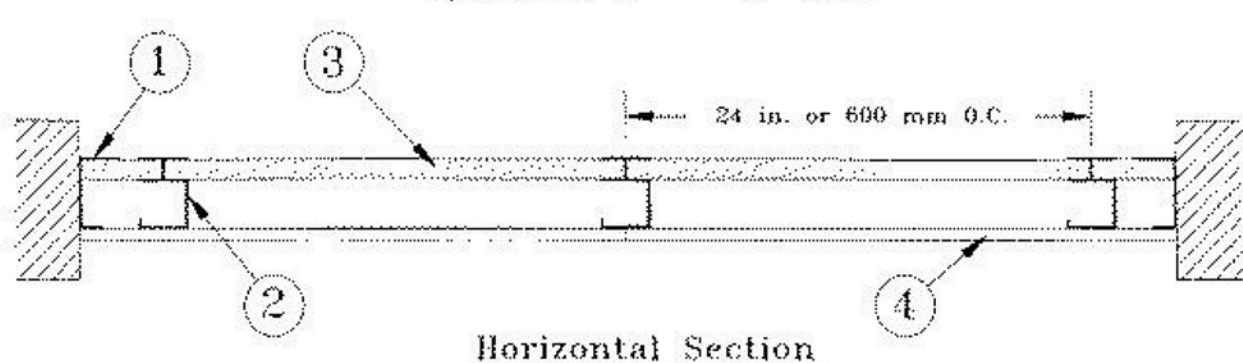
Design No. U415

March 06, 2018

Nonbearing Wall Ratings - 1, 2, 3 or 4 Hr

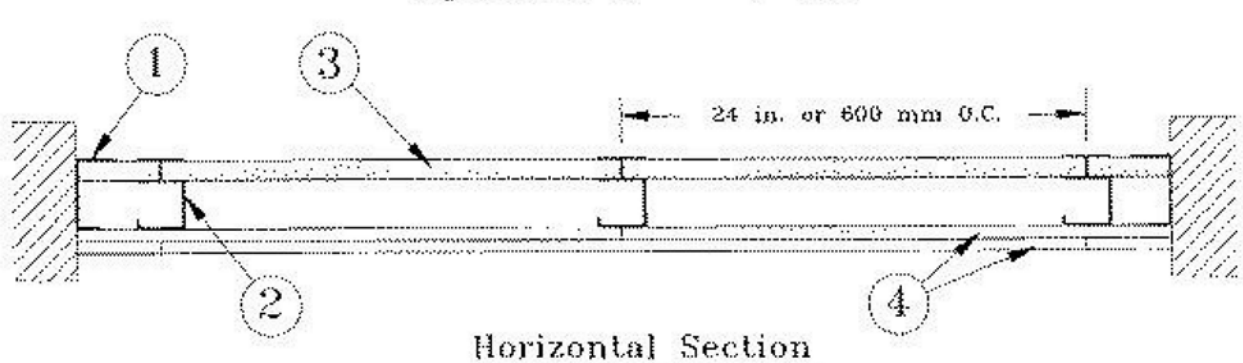
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

System A - 1 Hr.



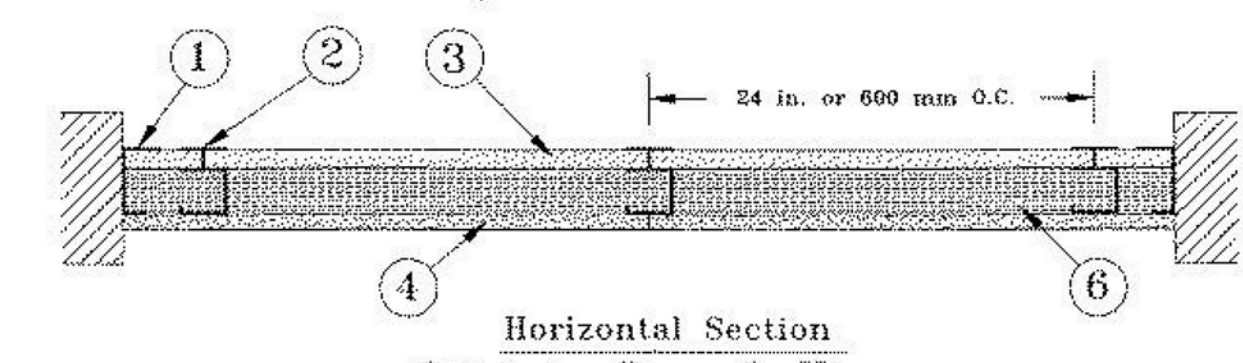
Horizontal Section

System B - 2 Hr.



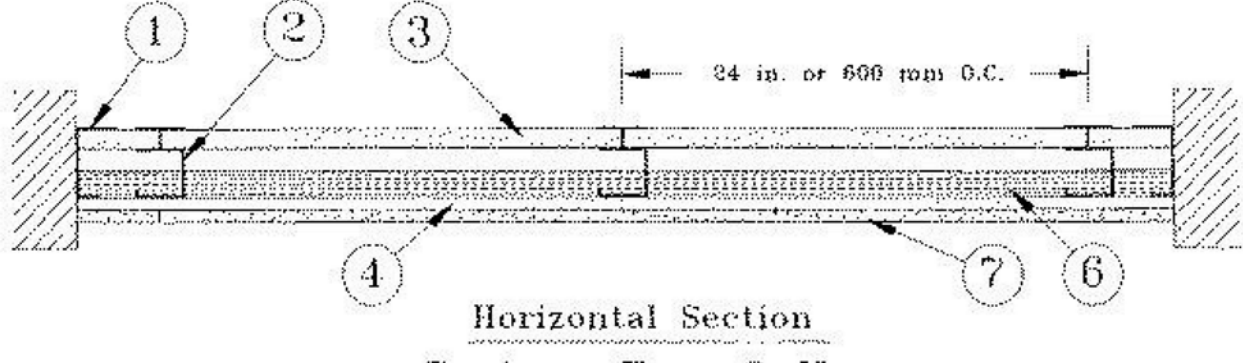
Horizontal Section

System C - 2 Hr.



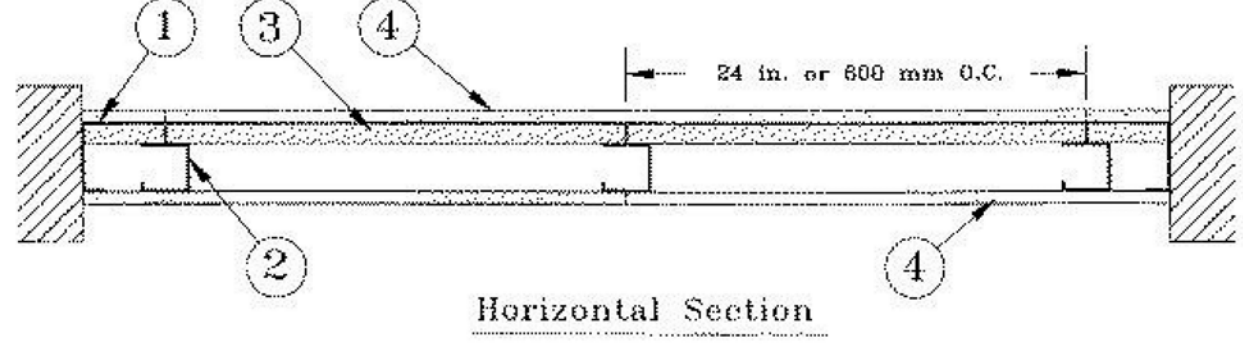
Horizontal Section

System D - 2 Hr.



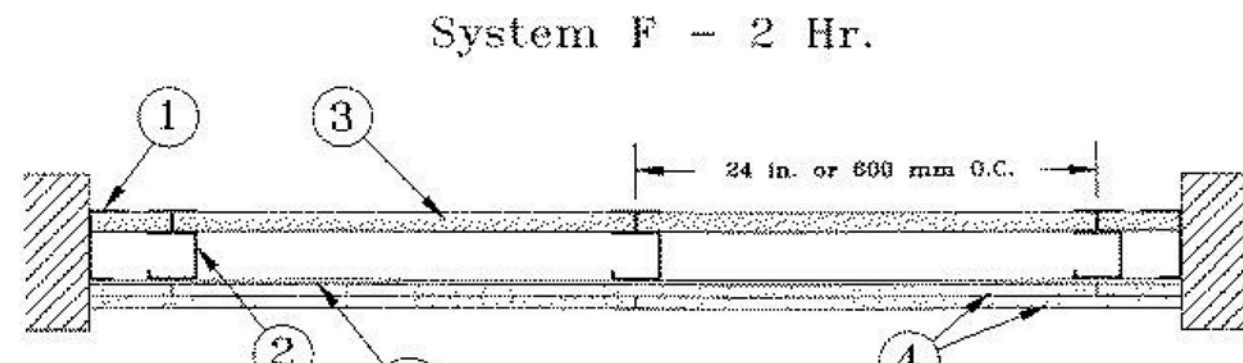
Horizontal Section

System E - 2 Hr.



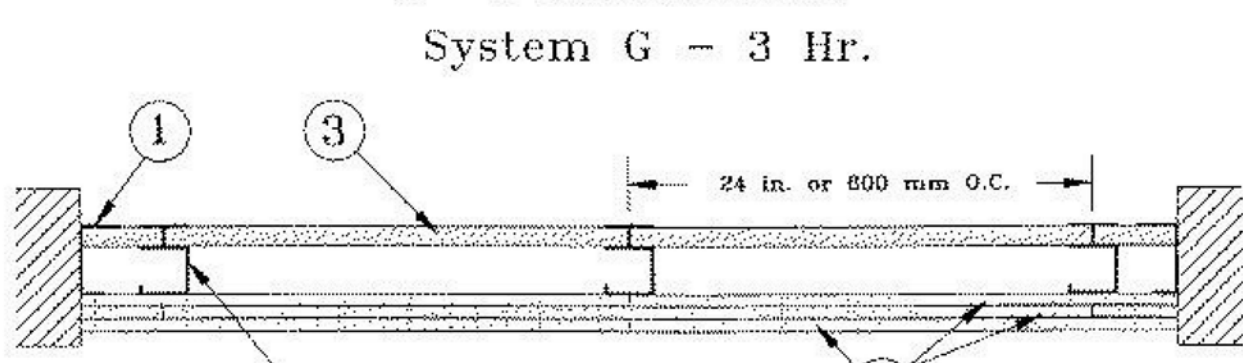
Horizontal Section

System F - 2 Hr.



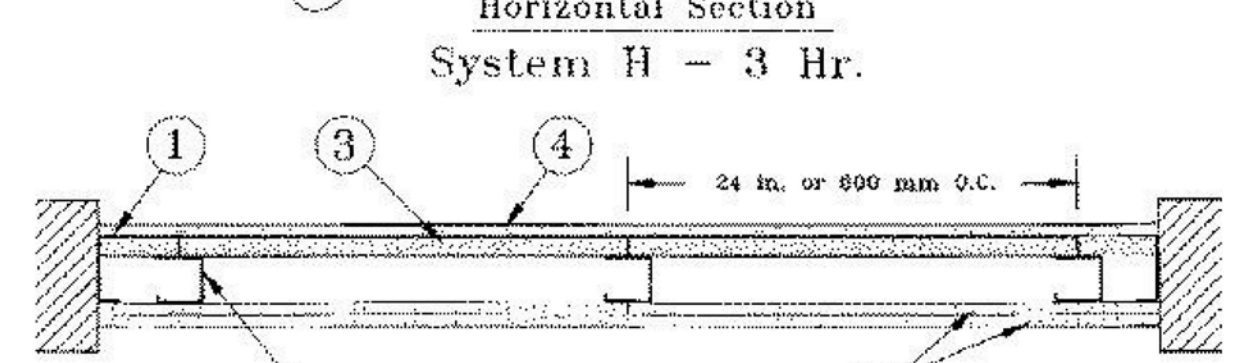
Horizontal Section

System G - 3 Hr.



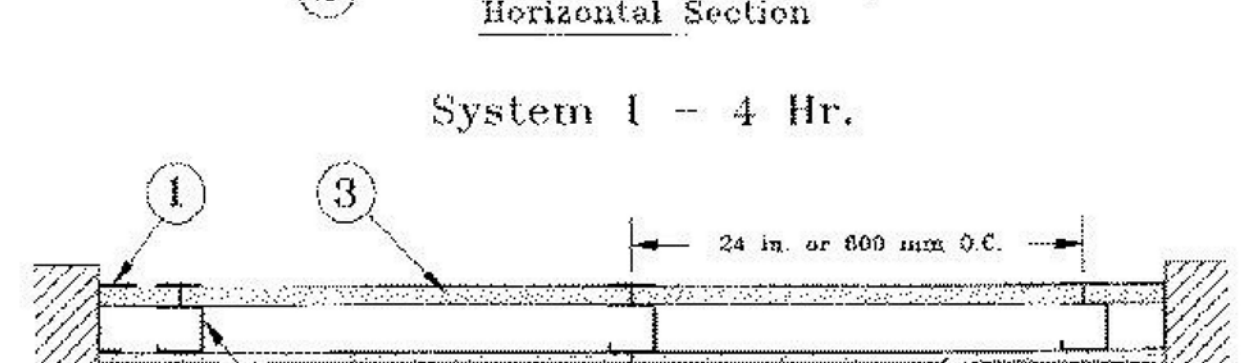
Horizontal Section

System H - 3 Hr.



Horizontal Section

System I - 4 Hr.



Horizontal Section

1. Floor, Side and Ceiling Runners - "J" shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with...

http://database.ul.com/cgi-bin/XYV/templateLISEXT1/FRAME/showpage.html?name=BXUV.U415&conshortTitle=Fire+Resistance+Ratings+ANSIUL... 3/9

6/25/2018

BXUV.U415 - Fire Resistance Ratings - ANSIUL 263

steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - Type U-shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. Steel Studs - "C" shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 24 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, 4D or 4E are used).

2. Steel Studs - (Not Shown) - "E" shaped studs installed back to back in place of "C" shaped studs (Item 2) "E" shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 24 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. Furring Channels - (Optional, Not Shown) - For use with single or double layer systems. Resilient furring channels fabricated from min 20MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type 5 or 5-1/2 pan head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7).

2C. Furring Channels - For use with System 1 - "hat" shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type 5 pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. Steel Framing Members - (Optional, Not Shown) - For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7):

a. Furring Channels - Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screws through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

b. Steel Framing Members - Used to attach furring channels (Item 2D) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screws through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C - Types RSIC-1, RSIC-1 (2.75)

2E. Steel Framing Members - (Optional, Not Shown) - Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B), Type X-Ray Shielded Gypsum (Item 4C), Type RPP-Lead Lined Drywall (Item 4F) or cementitious backer units (Item 7):

a. Furring Channels - Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screws through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

b. Steel Framing Members - Used to attach furring channels (Item 2Ea) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screws through the center grommet. Furring channels are friction fitted into clips.

STUCCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A2378

2F. Steel Framing Members - (Optional, Not Shown) - For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B) or cementitious backer units (Item 7):

a. Furring Channels - Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screws through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

b. Steel Framing Members - Used to attach furring channels (Item 2F) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screws through the center grommet. Furring channels are friction fitted into clips.

PLITIQ INC - Type GENIECLIP

2G. Steel Framing Members - (Optional, Not Shown) - Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelco (Item 4B), Type X-Ray Shielded Gypsum (Item 4C), Type RPP-Lead Lined Drywall (Item 4F) or cementitious backer units (Item 7):

a. Furring Channels - Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screws through the center grommet. Furring channels are friction fitted into clips.

b. Steel Framing Members - Used to attach furring channels (Item 2G) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screws through the center grommet. Furring channels are friction fitted into clips.

REGPOLAMERICA - Type SonuClip

6/25/2018

BXUV.U415 - Fire Resistance Ratings - ANSIUL 263

4. Gypsum Board - System A - 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type 5 steel screws spaced 12 in. OC when installed vertically or 8 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

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http://database.ul.com/cgi-bin/XYV/templateLISEXT1/FRAME/showpage.html?name=BXUV.U415&conshortTitle=Fire+Resistance+Ratings+ANSIUL... 5/9

6/25/2018

BXUV.U415 - Fire Resistance Ratings - ANSIUL 263

System C - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type 5 steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool bats per Item 6.

CGC INC - Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO - Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC - Type ULTRACODE

USG MEXICO S A DE CV - Types IP-X3 or ULTRACODE

System D - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type 5 steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool bats per Item 6.

CGC INC - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO - Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - Types C, SCX, SGX, USGX

USG MEXICO S A DE CV - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

6/25/2018

BXUV.U415 - Fire Resistance Ratings - ANSIUL 263

System E - 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type 5 steel screws spaced 12 in. OC when installed vertically or 8 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

UNITED STATES GYPSUM CO - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE CV - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE CV - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE CV - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE CV - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C; 5/8 in. Types C, SCX

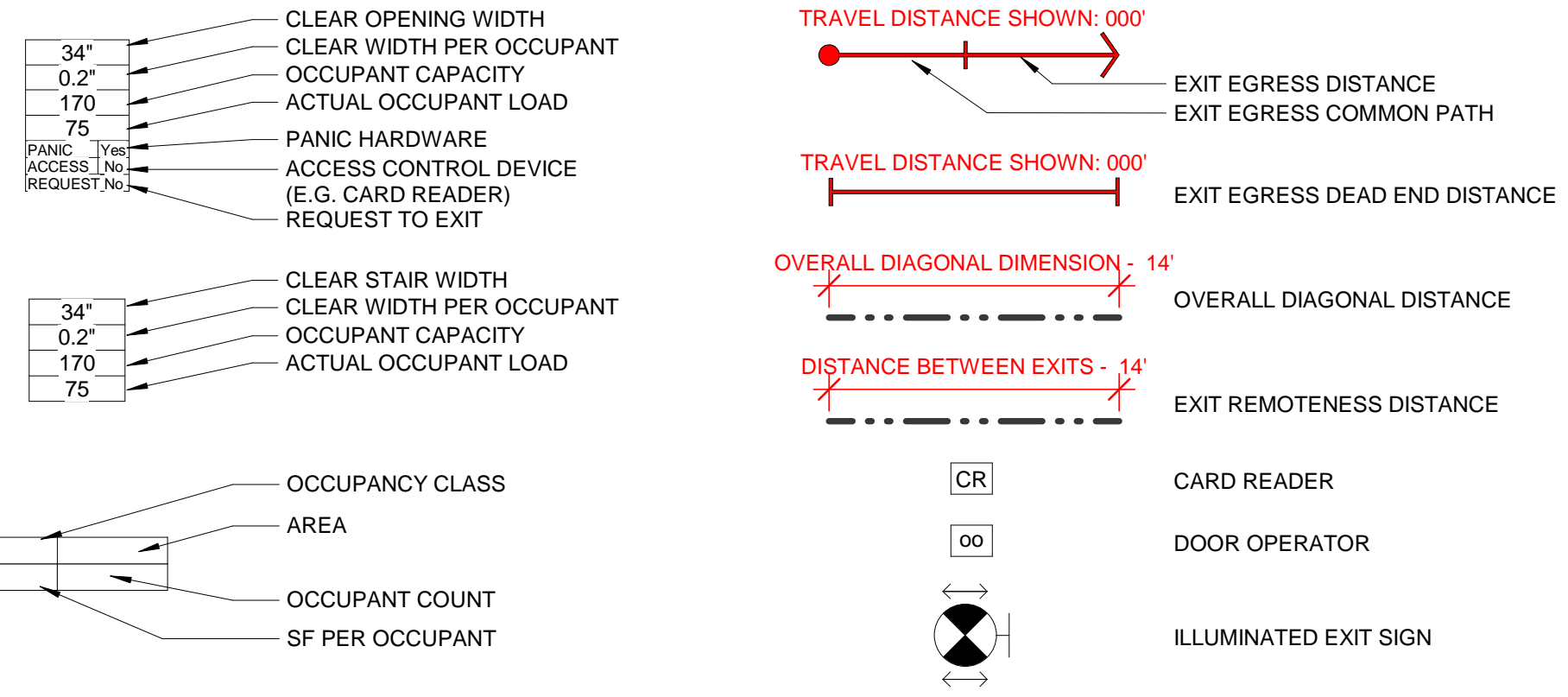
USG MEXICO S A DE CV - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE CV - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C; 5/8 in. Types C, SCX

LEGEND

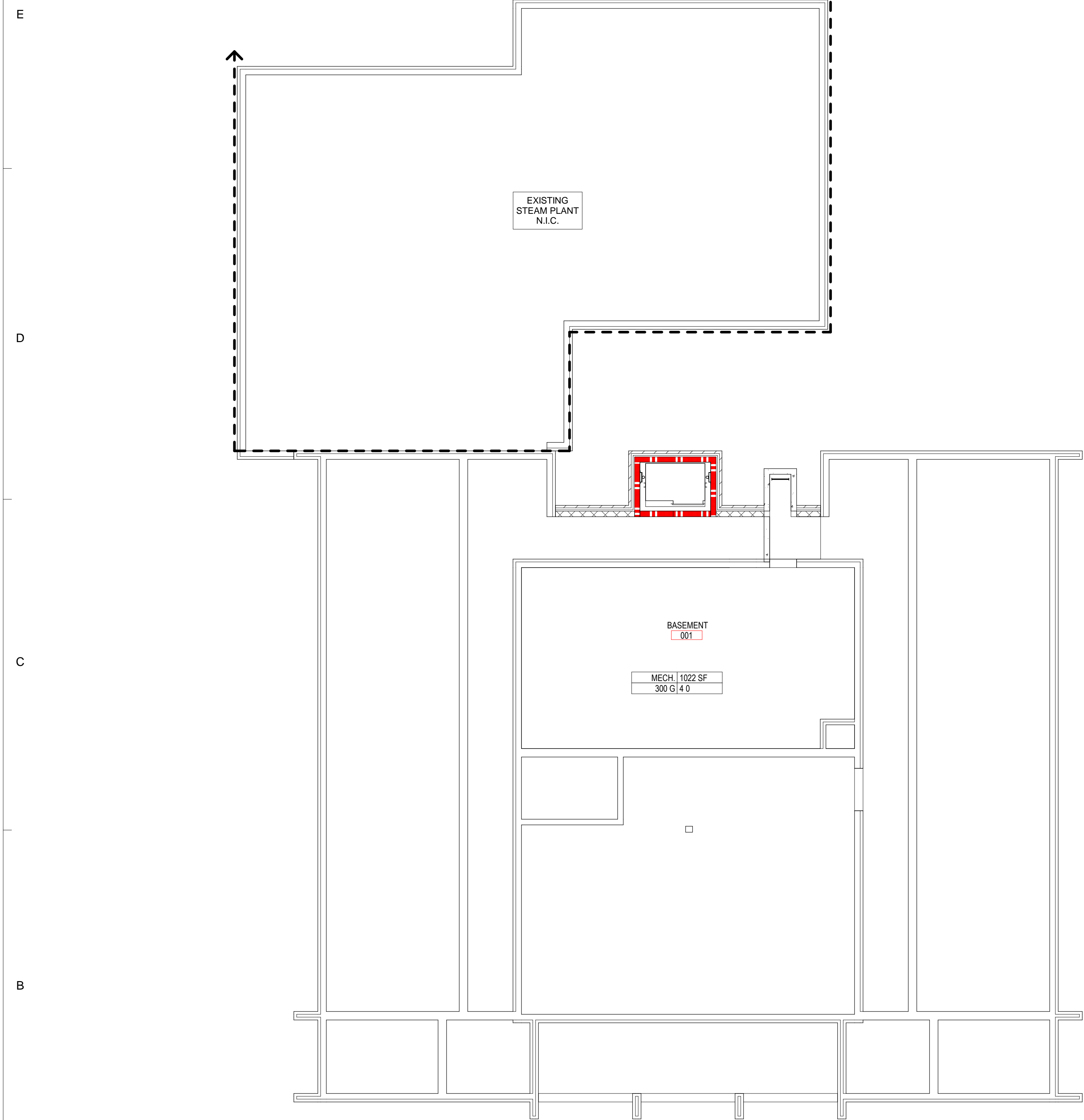


GENERAL NOTES

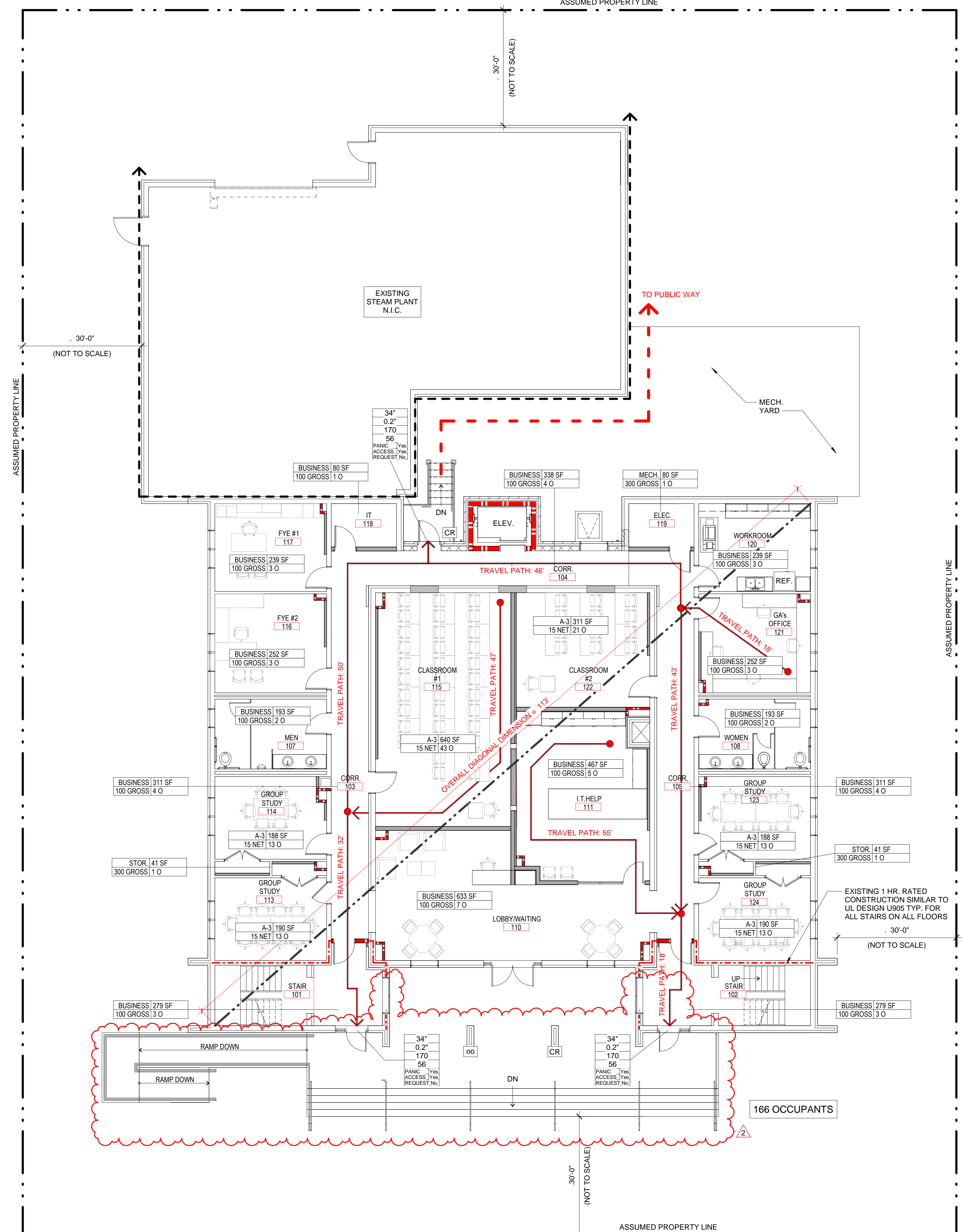
A. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS.

SHEET KEYNOTES

VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS, TYPICAL



1A Level 0 - Base Bid Life Safety
G111 1/8" = 1'-0"



4A Level 1 - Base Bid Life Safety
G111 1/8" = 1'-0"



ISSUE FOR PERMIT SET

ISSUE DATE: 09.11.2018

REVISIONS NO.	REASON	DATE
1	AV Revisions by Owner and Quality Control	08.20.18
2	Revisions by Owner	09.11.18

EXISTING 1 HR. RATED CONSTRUCTION SIMILAR TO UL DESIGN U905 TYP. FOR ALL STAIRS ON ALL FLOORS

PROJECT TEAM
PRINCIPAL IN CHARGE: ROB KLINEINST, AIA
PROJECT MANAGER: SHANE WEBSTER, AIA
DESIGN TEAM: LITTLE
PROGRAM NAME: CAMPBELL UNIVERSITY DAY HALL RENOVATIONS

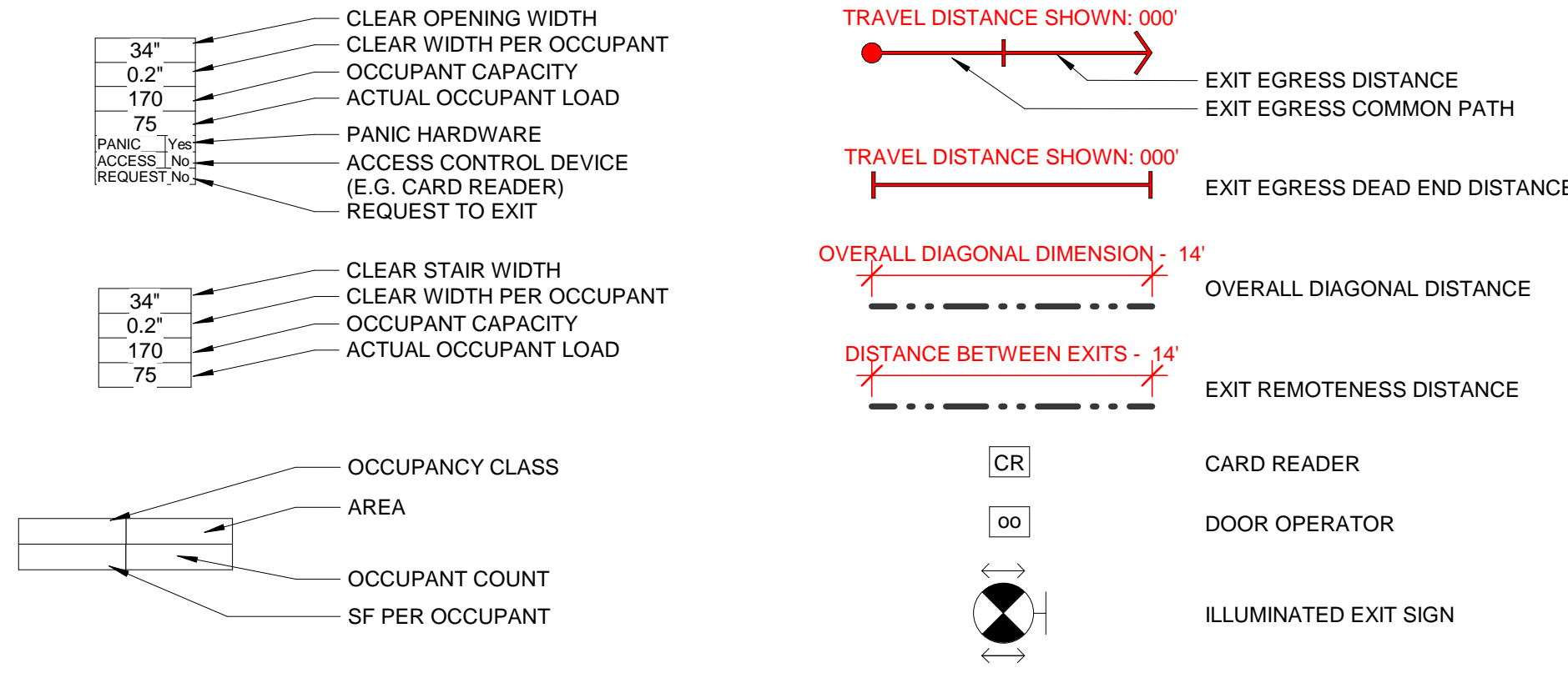
PROJECT NO.: 513.9660.00

SHEET TITLE: LIFE SAFETY PLANS - LEVELS 0 AND 1

SHEET NUMBER: G111

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LEGEND

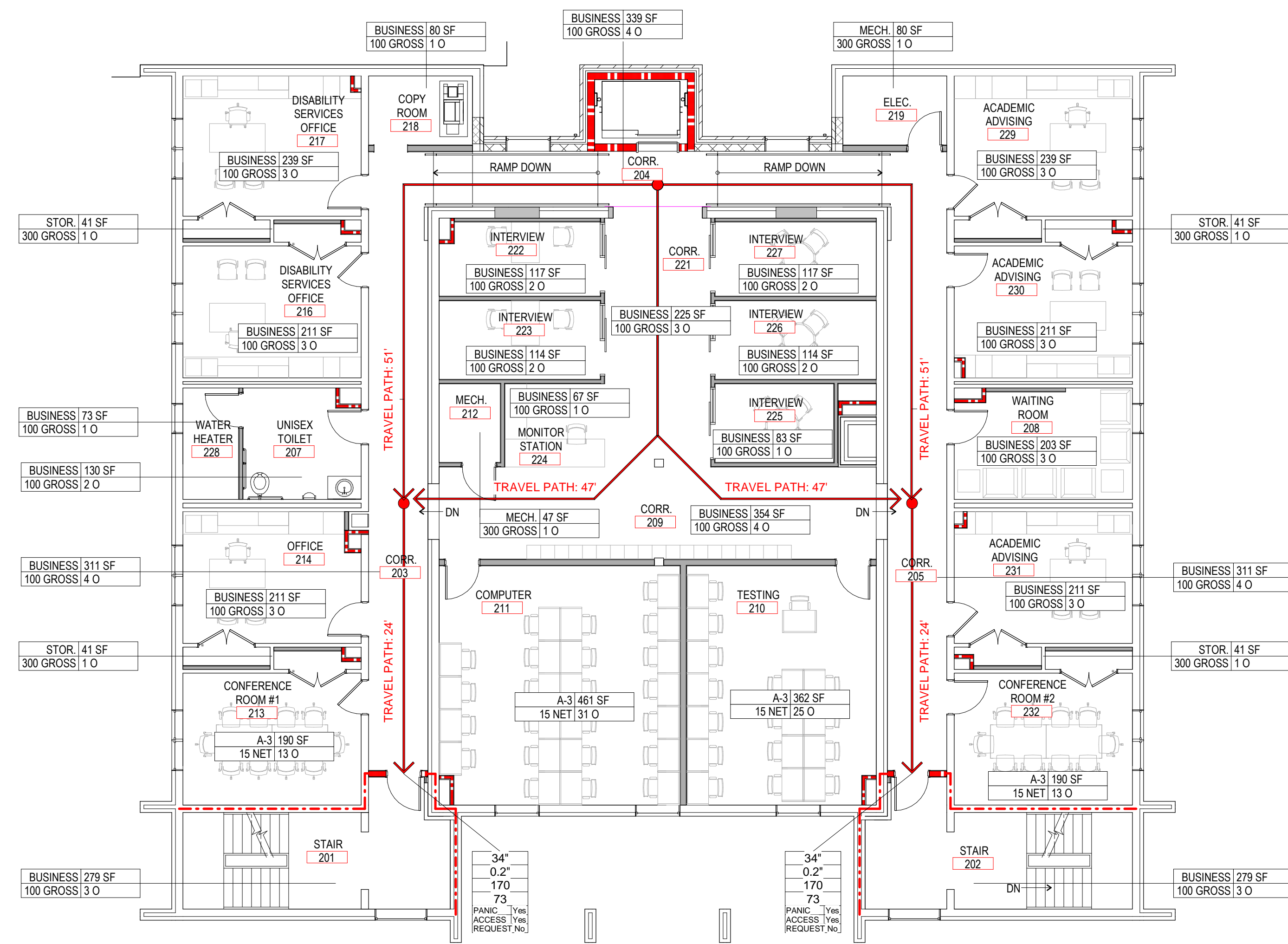


GENERAL NOTES

A. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS.

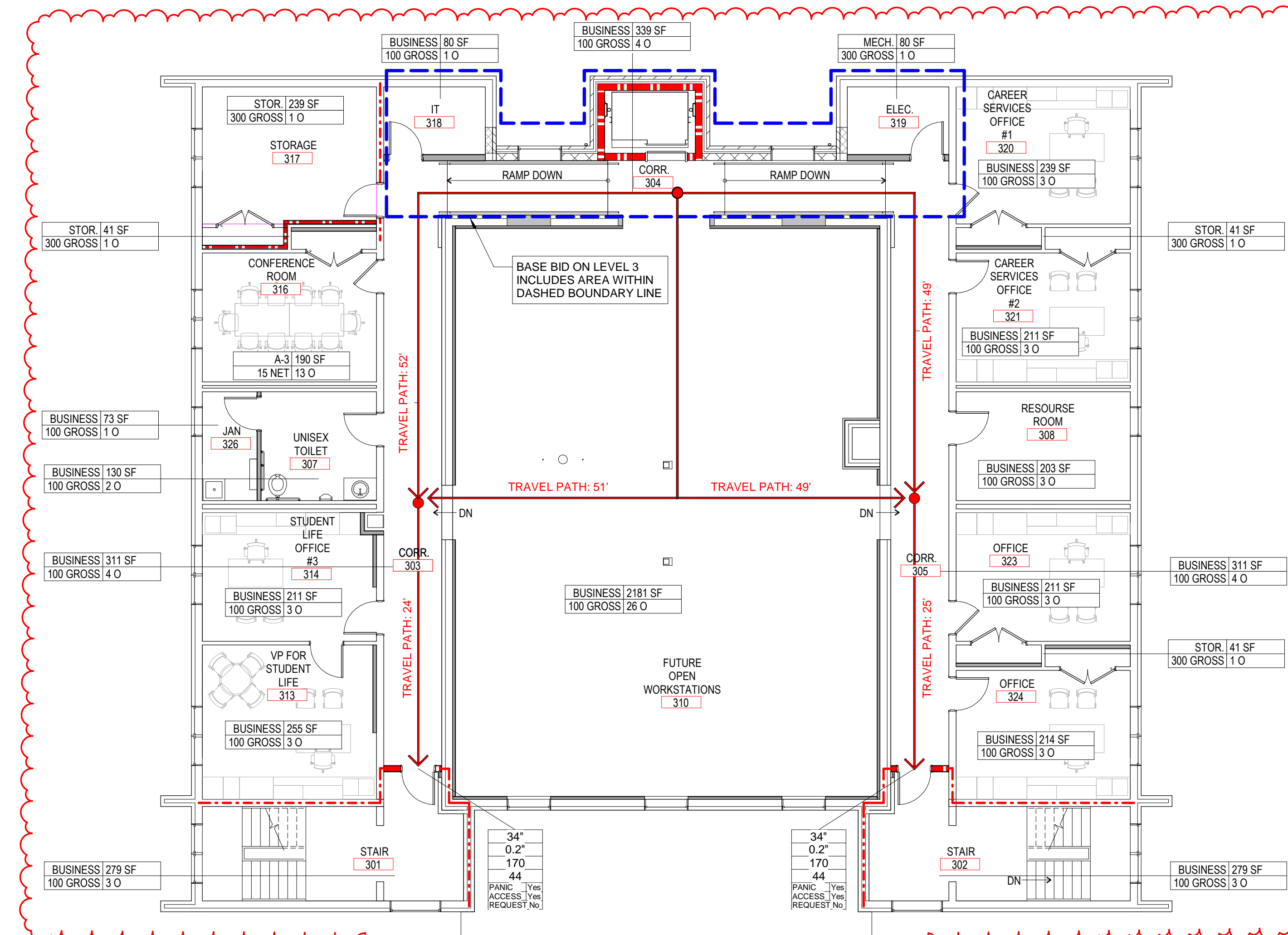
SHEET KEYNOTES

VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS, TYPICAL



1A Level 2 - Base Bid Life Safety
G112 1/8" = 1'-0"

145 OCCUPANTS



4A Level 3 - Base Bid Life Safety
G112 1/8" = 1'-0"

87 OCCUPANTS

NOTES:
1. BASE BID ON LEVEL 3 INCLUDES: NEW ELEVATOR SHAFT AND ROOF, NEW ELEVATOR, NEW EXTERIOR CORRIDOR WALL WITH SALVAGED WINDOWS, NEW CORRIDOR ROOF, NEW CONCRETE RAMP, WORK IN IT AND ELEC. ROOMS.
2. ALL OTHER WORK ON LEVEL 3 IS TO BE INCLUDED IN FUTURE PHASE 2 UNLESS OTHERWISE NOTED.

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09/11/2018

ISSUE FOR PERMIT SET

ISSUE DATE: 09.11.2018

REVISIONS

NO.	REASON	DATE
1	AV Revisions by Owner and Quality Control	08.20.18
2	Revisions by Owner	09.11.18

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PROJECT MANAGER: SHANE WEBSTER, AIA
DESIGN TEAM: LITTLE
PROJECT NAME: CAMPBELL UNIVERSITY DAY HALL RENOVATIONS

PROJECT NO.: 513.9660.00

SHEET TITLE: LIFE SAFETY PLANS - LEVELS 2 AND 3

SHEET NUMBER: G112