School of Hotel Administration

East Avenue Entry and Second Floor Infill

Cornell University

Ithaca, NY 14853

ARCHITECT:
KSS Architects LLP
150 S. Independence Mall West
Philadelphia, Pennsylvania 19106
Tel: 215-320-3000

Structural Engineer
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

Civil Engineer
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

MEP Engineer
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

Acoustical Design
Metropolitan Acoustics
40 West Evergreen Avenue, Suite 108
Philadelphia, Pennsylvania 19118
215.248.4352

Landscape Design
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

ABBREVIATIONS

ABOVE FINISHED FLOOR	AFF	EACH	EA	LENGTH	LG	RUBBER	RUB
ACCESS DOOR	AD	EAST	E	LIGHTING	LTG	RUBBER BASE	RB
ACOUSTICAL	ACOUS	ELASTOMERIC	ELAST	LIGHTWEIGHT	LTWT	RUBBER NAILER FASTENING STRIP	RNFS
ACOUSTICAL CEILING BOARD	ACB	ELECTRIC, ELECTRICAL	ELEC	LIVING ROOM	LR	SANITARY	SAN
ACOUSTIC CEILING TILE	ACT	ELECTRIC WATER COOLER	EWC	LONG	LNG	SCHEDULE	SCHED
ADHESIVE	ADH	ELEVATION	EL	LOUVER	LVR	SCORED JOINT	SCD JT
ADJACENT	ADJ	ELEVATOR	ELEV	LOW POINT	LP	SEALED	SLD
ADJUSTABLE	ADJUST	EMERGENCY	EMERG	MACHINE	MACH	SECTION	SECT
AIR CONDITIONING	AC	ENCLOSURE	ENCL	MAINTENANCE	MAINT	SHEET	SHT
ALTERNATE	ALT	ENTRANCE	ENTR	MANUFACTURER	MFR	SIMILAR	SIM
ALUMINUM	ALUM	EQUAL	EQ	MARKER BOARD	MB	SOFTWOOD	SFTWD
ANCHOR BOLT	AB	EQUIPMENT	EQUIP	MASONRY	MAS	SOLID CORE	SC
ANGLE	L	EXHAUST	EXH	MASONRY OPENING	MO	SOUND ATTENUATION BLANKET	SAB
ANODIZED	ANOD	EXISTING	EXIST	MATERIAL	MATL	SOUND TRANSMISSION CLASSIFICATION	STC
APARTMENT	APT	EXPANSION JOINT	EJ	MECHANICAL	MECH	SOUTH	S
ARCHITECT, ARCHITECTURAL	ARCH	EXPOSED	EXP	MEMBRANE	MEMB	SPACES	SP
ASPHALT	ASPH	EXTERIOR	EXT	METAL	MTL	SPECIFICATION	SPEC
AUTOMATIC	AUTO	EXTRUSION, EXTRUDED	EXTR	METAL CEILING PANEL	MCP	SQUARE	SQ
AVERAGE	AVG	FEET	FT	MEZZANINE	MEZZ	SQUARE FOOT	SQ FT
BALANCE	BAL	FIBERGLASS	FIB	MINIMUM	MIN	STANDARDQ	STD
BALLED & BAGGED	B&B	FIBERGLASS REINFORCED	FRP	MISCELLANEOUS	MISC	STEEL	STL
BARRIER FREE	BF	FILLER PANEL	FP	MODIFIED BITUMINOUS	MOD BIT	STAINLESS STEEL	SST
BASEMENT	BSMT	FINISH	FIN	MOLDING	MLDG	STORAGE	STOR
BEAM	BM	FINISH TO FINISH	FTF	MOUNTED	MTD	STORM	ST
BEARING	BRG	FIRE EXTINGUISHER CABINET	FEC	MOVABLE	MVBL	STRAIGHT	STR
BEDROOM	BR	FIRERETARDANT TREATED	FTD	MULLION	MULL	STRUCTURAL	STRUC
BETWEEN	BTWN	FLOOR DRAIN	FD	MULTIPLE	MULT	STUCCO	STC
BEVELED	BEV	FLOOR	FL	NATURAL	NAT	SUBFLOOR	SUBFL
BITUMINOUS	BIT	FLUORESCENT	FLUOR	NOMINAL	NOM	SURFACE	SURF
BLOCK	BLK	FOOTING	FTG	NOMINAL INSIDE DIAMETER	NID	SUSPENDED	SUSP
BLOCKING	BLKG	FOUNDATION	FDN	NORTH	N	SWITCH	SW
BOARD	BD	FRAME	FR	NOT IN CONTACT	NIC	SYSTEM	SYS, SYST
BY OTHERS	BO	FULL SIZE	FS	NOT TO SCALE	NTS	TACKBOARD	TB
BOTTOM	BOT,B	FURNISH	FURN	NUMBER	NOM	TEMPORARY	TEMP
BOTTOM OF CURB	BOC	FURRING	FUR	OFFICE	OFF	TERRAZZO	TER
BOTTOM OF STEEL	BOS	GAGE, GUAGE	GA	ON CENTER	OC	TEMPERATURE	TEMP
BRACKET	BRKT	GALLON	GAL	OPENING	OPNG	THERMAL	THERM
BRICK	BRK	GALVANIZED	GALV	OPPOSITE	OPP	THRESHOLD	THRESH
BRICK COURSE	BC	GENERAL CONCRETE	GC	OUNCE	OZ	TONGUE AND GROOVE	T & G
BUILDING	BLDG	GLASS	GL	OUTSIDE DIAMETER	OUT DIA	TOP OF BEAM	TOB
BUILT-UP ROOFING	BUR	GLASS FIBER REINFORCED CONC	GFRC	OVERFLOW DRAIN	OD	TOP OF CURB	TC
CABINET	CAB	GLAZE	GLZ	OVERALL	OA	TOP OF WALL	TW
CARPET	CPT	GLUE LAMINATED	GLU LAM	OVERHEAD	OH	TOP OF STEEL	TOS
CASING BEAD	CASING BD	GRADE	GD	PAINTED	PTD	TREAD	T
CHALK BOARD	CB	GROUND	GND	PAIR	PR	TREATED	TRTD
CAST IRON	CI	GYPSUM	GYP	PANEL	PNL	TYPICAL	TYP
CEILING	CLG	GYPSUM WALLBOARD	GWB	PARTITION	PTN	UNFINISHED	UNFIN
CEMENT, CEMENTITIOUS	CEM	HAND	HND	PARTICLE BOARD	PART BD	UTILITY	UTIL
CEMENT PLASTER	CEM PLAS	HANDICAPPED	HCP	PAVEMENT	PVMT	UNLESS OTHERWISE NOTED	UON
CENTER	CTR	HANDRAIL	HNDRL	PERFORATED	PERF	VALUE	VAL
CENTER LINE	CLG	HARDBOARD	HDBD	PHILLIP'S HEAD SCREW	PHS	VENEER	VEN
CERAMIC TILE	CT	HARDWARE	HDWE	PHOTOVOLTAIC	PV	VENTILATING	VENT
CHANNEL	CH	HEAD	HD	PLANT	PLT	VERIFY IN FIELD	VIF
CLEAR, CLEARANCE	CLR	HEAT	HT	PLATE	PL	VERTICAL	VERT
CLEAR TEMPERED PLATE GLASS	CTP	HEATING, VENTILATING AND A/C	HVAC	PLASTER	PLAS	VINYL BASE	VB
CLOSET	CLOS	HIGH	H	PLASTIC LAMINATE	PLAM	VINYL COMPOSITION TILE	VCT
COLUMN	COL	HIGHPOINT	HPT	PLYWOOD	PLYWD	VOLUME	VOL
COLD ROLLED CHANNEL	CRC	HIGHWAY	HWY	POUNDS PER SQUARE FOOT	PSF	WAINSCOT	WA
COMPOSITE	COMP	HOLLOW CORE	HC	POUNDS PER SQUARE INCH	PSI	WATER CLOSET	WC
COMPRESSIBLE	COMPR	HOLLOW METAL	HM	PRESSURE	PRES	WALL COVERING	W COV
CONCRETE	CONC	HOLLOW STRUCTURAL SECTION	HSS	PRESSURE TREATED	PT, PRTD	WATERPROOF	WP
CONCRETE MASONRY UNIT	CMU	HORRIZONTAL	HORZ	PROTECTION	PROT	WATERRESISTANT	WR
CONFERENCE	CONF	HORSEPOWER	HP	QUARRY TILE	QT	WEIGHT	WT
CONSTRUCTION	CONST	HOUR	HR	RADIUS	R, RAD	WELDED WIRE FABRIC	WWF
CONTINUOUS	CONT	HYDRANT	HYD	RAIN WATER CONDUCTOR	RWC	WEST	W
CONTROL	CONTR	INCHES	IN	RAIN WATER LEADER	RWL	WIDE FLANGE	WF
CONTROL JOINT	CJ	INCLUDE	INCL	RECESSED	REC	WINDOW	WDW
CONVECTOR	CONV	INSIDE DIAMETER	ID	RECTANGULAR	RECT	WITH	W/
CORRIDOR	CORR	INSULATION	INSUL	REFERENCE	REF	WITHOUT	W/O
COUNTER FLASHING	CTR FLASH'G	INTERIOR	INT	REFRIGERATOR	REFR	WOOD	WDW
COURSE	C	INVERT	INV	REINFORCING	REINF	YARD	YD
CUBIC FEET	CF	JANITOR	JAN	REINFORCING BAR	REBAR		
DAMPPROOFING	DP	JOINT	JT	REMOVABLE	REM		
DEPARTMENT	DEPT	JANITOR CLOSET	JC	REQUIRED	REQD		
DETAIL	DTL	KILN DRIED	KD	REVISION, REVISED	REV		
DIAGONAL	DIAG	KITCHEN	KIT	RIGHT	RT		
DIAMETER	DIA	KNOCKOUT	KO	RIGHT HAND	RH		
DIFFUSER	DIFF	KICK PLATE	KP	RISER	R		
DIMENSION	DIM	LAMINATED	LAM	ROOF DRAIN	RD		
DISPENSER	DISP	LAVATORY	LAV	ROOFING	RFG		
DIVISION	DIV	LEAD COATED COPPER	LCC	ROOM	RM		
DOOR	DR	LEFT	L	ROUGH OPENING	RO		
DOUBLE	DBL	LEFT HAND	LH	ROUND	RND		
DOWN	DN						
DRAWING	DWG						

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CODES, ALL LOCAL, STATE AND FEDERAL REGULATIONS, AND IN A PROFESSIONAL WORKMAN LIKE MANNER.

2. CONTRACTORS AND THEIR STAFF ARE CONSIDERED BY THE OWNER AND ARCHITECT, THROUGHOUT THE PREPARATION OF DOCUMENTS AND THE CONSTRUCTION SEQUENCE, TO BE KNOWLEDGEABLE PROFESSIONALS SKILLED IN THEIR TRADE, AND THAT THEY ALONG WITH THE ARCHITECT SHALL ENDEAVOR TO PRODUCE A QUALITY PRODUCT.

3. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE AFFECTING THE WORK DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS. BRING TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES WHICH MAY ALTER OR IMPEDE THE ORIGINAL OR INTENDED DESIGN.

4. OBTAIN, FILE AND PAY FEES FOR ALL REQUIRED PERMITS, INSPECTIONS, AND CERTIFICATES.

5. PROVIDE ALL NECESSARY DEMOLITION OR REMOVAL OF EXISTING WORK AS REQUIRED IN CONNECTION WITH THIS PROJECT, INCLUDING SHORING, BRACING, ETC. AND LEGALLY REMOVE UNWANTED MATERIAL AND DEBRIS FROM THE SITE. PROVIDE ADEQUATE BARRICADES AND OTHER TEMPORARY PROTECTION TO PREVENT INJURY TO PERSONS.

6. DO NOT SCALE THE DRAWINGS.

GRAPHIC SYMBOLS

MATERIAL SYMBOLS

EARTH		RIGID INSULATION	
POROUS FILL		ROUGH WOOD CONTINUOUS	
CONCRETE MASONRY UNIT		ROUGH WOOD INTERMITTENT	
BRICK		ROUGH WOOD CONTINUOUS	
CONCRETE		FINISHED WOOD	
CAST STONE		INSULATED METAL PANEL	
STEEL		GROUT	
ALUMINIUM		BATT INSULATION	
PLYWOOD		GYPSUM WALLBOARD	

DRAWING INDEX

GENERAL
CS1 COVER SHEET
CS2 CODE NOTES
CS3 EGRESS & LIFE SAFETY

CIVIL
C101 SITE UTILITY PLAN
C201 SITE UTILITY DETAILS

LANDSCAPE
L101 DEMOLITION PLAN
L201 LAYOUT PLAN
L301 GRADING PLAN
L401 PLANTING PLAN
L402 TURF SOILS AND MULCH PLAN
L501 SITE DETAILS

ARCHITECTURAL
AD101 DEMOLITION PLANS
AD102 DEMOLITION PLANS
AD301 DEMOLITION ELEVATIONS

A101 FLOOR PLANS
A102 FLOOR PLANS
A201 REFLECTED CEILING PLANS
A202 REFLECTED CEILING PLANS
A301 EXTERIOR ELEVATIONS
A411 WALL SECTIONS
A412 WALL SECTIONS
A413 WALL SECTIONS
A414 WALL SECTIONS
A415 INFILL ENTRY DETAILS
A416 WALL SECTIONS
A420 SECTION DETAILS
A601 ENLARGED PLANS
A602 ENLARGED CANOPY PLANS
A603 ENLARGED CANOPY PLANS
A701 INTERIOR ELEVATIONS
A902 CURTAIN WALL ELEVATIONS
A903 DOOR SCHEDULE

STRUCTURAL
S101 FOUNDATION PLAN
S102 FIRST FLOOR LEVEL FRAMING
S103 SECOND FLOOR FRAMING PLAN
S104 ROOF FRAMING PLAN
S401 BRACING ELEVATION
S510 TYPICAL FRAMING DETAILS
SD101 FOUNDATION DEMOLITION PLAN
SD102 STRUCTURAL DEMOLITION PLAN

HVAC
H000 GENERAL NOTES & SYMBOLS LIST
H100 FLOOR PLANS - HVAC DEMOLITION
H101 FLOOR PLANS - HVAC DEMOLITION
H200 FLOOR PLANS - HVAC NEW WORK
H201 FLOOR PLANS - HVAC NEW WORK
H202 FLOOR PLANS - HVAC NEW WORK
H300 SNOW MELT
H301 DETAILS - HVAC
H400 HVAC DETAILS
H500 CONTROL DRAWINGS - HVAC
H501 CONTROL DRAWINGS - HVAC

ELECTRICAL
E000 SYMBOLS & GENERAL NOTES
ED100 FLOOR PLAN - ELECTRICAL DEMO
ED101 FLOOR PLAN - ELECTRICAL DEMO
ED102 FLOOR PLAN - ELECTRICAL DEMO
EL100 FLOOR PLAN - LIGHTING NEW WORK
EL101 FLOOR PLAN - LIGHTING NEW WORK
EL102 SITE PLAN - ELECTRICAL
EP100 FLOOR PLAN - POWER NEW WORK
EP101 FLOOR PLAN - POWER NEW WORK
EP102 FLOOR PLAN - POWER NEW WORK
E500 ELECTRICAL DETAILS
E600 ELECTRICAL SCHEDULES

FIRE PROTECTION
FP000 GENERAL NOTES & SYMBOLS LIST
FPD100 FLOOR PLAN - FIRE PROTECTION DEMO
FPD101 FLOOR PLAN - FIRE PROTECTION DEMO
FP100 FLOOR PLAN - FIRE PROT. NEW WORK
FP101 FLOOR PLAN - FIRE PROT. NEW WORK

CODE REVIEW

Location: 130 Statler Drive in Ithaca, 14853, Tompkins County, State of New York

Applicable Codes and Standards

- 2010 Building Code of New York State
- 2010 Existing Building Code of New York State
- 2010 Fire Code of New York State
- ICC/ANSI 117.1-2003 Accessible and Usable Buildings and Facilities
- Energy Conservation Construction Code of New York State
- Americans with Disabilities Act Architectural Guidelines (ADAAG)

Occupancy Group Classification (303.1 and 304.1)

Mixed Occupancy, Non-separated Use
- Use Group A3 Assembly
- Use Group B Business

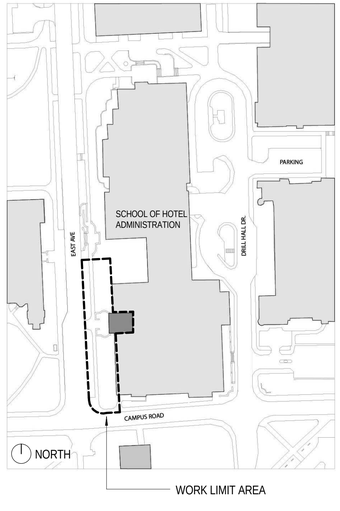
Construction Type (602.2) and Fire Protections (Chapter 9)

- Type IB Protected
- Fully Sprinklered – Complies with 903

Classification of Work (2010 Existing Building Code of New York State)

- Alteration - Level 2

SITE LOCATION PLAN



School of Hotel Administration
East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
KSS ARCHITECTS LLP
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1/8" = 1'-0"

COVER SHEET

CS1

Applicable Sections from 2010 Existing Building Code of New York State

This Review assumes that the area of work is in an 'A3' Use group:

CHAPTER 4 CLASSIFICATION OF WORK

Section 403 ALTERATIONS – LEVEL 1

403.1 Scope. Level 1 alterations include the removal and replacement or the covering of existing materials, elements, equipment, or fixtures using new materials, elements, equipment, or fixtures that serve the same purpose.

Section 404 ALTERATIONS – LEVEL 2

404.1 Scope. Level 2 alterations include the reconfiguration of space, the addition or elimination of any door or window, the reconfiguration or extension of any system, or the installation of any additional equipment.
404.2 Application. Level 2 alterations shall comply with the provisions of Chapter 6 for Level 1 alterations as well as the provisions of Chapter 7.

CHAPTER 6 ALTERATIONS – LEVEL 1

Section 601 General

Table 601 Fire-Resistance Rating Requirements For Building Elements (hours)

Building Element	Type I
	B
Structural frame	2[b]
Bearing walls Exterior [g] Interior	 2 2 [b]
Nonbearing walls and patitions Exterior	See Table 602
Nonbearing walls and partitions Interior [f]	0
Floor construction Including supporting beams and joists	2
Roof construction Including supporting beams and joists	1 [c, d]

For SI: 1 foot = 304.8 mm.

a The structural frame shall be considered to be the columns and the girders, beams, trusses and spandrels having direct connections to the columns and bracing members designed to carry gravity loads. The members of floor or roof panels which have no connection to the columns shall be considered secondary members and not a part of the structural frame.

b. Roof supports: Fire-resistance ratings of structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only.

c. Except in Group F-1, H, M and S-1 occupancies, fire protection of structural members shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members.

d. In all occupancies, heavy timber shall be allowed where a 1-hour or less fire-resistance rating is required.

e. An approved automatic sprinkler system in accordance with Section 903.3.1.1 shall be allowed to be substituted for 1-hour fire-resistance-rated construction, provided such system is not otherwise required by other provisions of the code or used for an allowable area increase in accordance with Section 506.3 or an allowable height increase in accordance with Section 504.2. The 1-hour substitution for the fire resistance of exterior walls shall not be permitted.

f. Not less than the fire-resistance rating required by other sections of this code.

g. Not less than the fire-resistance rating based on fire separation distance (see Table 602).

601.2 Conformance. An existing building or portion thereof shall not be altered such that the building becomes less safe than its existing condition.

Section 603 Fire Protection

603.1 General. Alterations shall be done in a manner that maintains the level of fire protection provided.

Section 604 Means of Egress

604.1 General. Repairs shall be done in a manner that maintains the level of protection provided for the means of egress.

Section 605 Accessibility

605.1 General. A building, facility or element that is altered shall comply with the applicable provisions in section 605.1.1 through 605.1.12, Chapter 11 of the Building Code of New York State and ICC/ANSI A117.1 unless it is technically infeasible. Where compliance with this section is technically infeasible, the alteration shall provide access to the maximum extent that is technically feasible.

A building, facility, or element that is constructed or altered to be accessible shall be maintained accessible during occupancy.

605.1.1 Entrances. Where an alteration includes alterations to an entrance, and the building or facility has an accessible entrance on an accessible route, the altered entrance is not required to be accessible unless required by Section 605.2. Signs complying with Section 1110 of the Building Code of New York State shall be provided.

605.1.11 Thresholds. The maximum height of thresholds at doorways shall be ¾" inch. Such thresholds shall have beveled edges on each side.

605.2 Alterations affecting an area containing a primary function. Where an alteration affects the accessibility to a, or contains an area of, primary function, the route to the primary function area shall be accessible. The accessible route to the primary function area shall include toilet facilities or drinking fountains serving the area of primary function.

Exceptions:

1. The costs of providing the accessible route are not required to exceed 20 percent of the costs of the alterations affecting the area of primary function.

Section 607 Energy Conservation

Energy conservation measures in existing buildings shall be in conformance with Section 101 of the Energy Conservation Construction Code of New York State.

CHAPTER 7 ALTERATIONS – LEVEL 2

Section 701 General

701.2 Alteration Level 1 compliance. In addition to the requirements of this chapter, all work shall comply with the requirements of Chapter 6.

Section 703 Building Elements and Materials

703.1 Existing Vertical openings. All existing interior vertical openings connecting two or more floors shall be enclosed with approved assemblies having a fire-resistance rating of not less than 1 hour with approved opening protectives.

Exceptions:
3. The enclosure shall not be required where:

3.1 Connecting the main floor and mezzanines;
Or:

3.2. All of the following conditions are met:

3.2.1 The communicating area has low hazard occupancy or has a moderate hazard occupancy that is protected throughout by an automatic sprinkler system.

3.2.2. The lowest or next to the lowest level is a street floor.

3.2.3. The entire area is open and unobstructed in a manner such that it may be assumed that a fire in any part of the interconnected spaces will be readily obvious to all of the occupants.

3.2.4. Exit capacity is sufficient to provide egress simultaneously for all the occupants of all levels by considering all areas to be a single floor area for the determination of required exit capacity.

3.2.5. Each floor level, considered separately, has at least one half of its individual required exit capacity provided by an exit or exits leading directly out of that level without having to traverse another communicating floor level or be exposed to the smoke or fire spreading from another communicating floor level.

4. In Group A occupancies, a minimum 30 minute enclosure shall be provided to protect all vertical openings not exceeding three stories.

5. In Group B occupancies, a minimum 30 minute enclosure shall be provided to protect all vertical openings not exceeding three stories. This enclosure shall not be required in the following locations:

5.2. Buildings protected throughout by an approved automatic fire sprinkler system.

703.4 Interior Finish. The interior finish of walls and ceilings in exits and corridors in any work area shall comply with the requirements of the *Building Code of New York State*.

703.5 Guards. The requirements of Sections 703.5.1 and 703.5.2 shall apply in all work areas

703.5.1. Minimum requirement. Every portion of a floor, such as a balcony or a loading dock, that is more than 30 inches above the floor or grade below and is not provided with guards, shall be provided with guards.

703.5.2. Design. Where there are no guards or where existing guards must be replaced, the guards shall be designed and installed in accordance with the *Building Code of New York State*.

Section 704 Fire Protection

704.2 Automatic sprinkler systems. Automatic sprinkler systems shall be provided in accordance with the requirements of Sections 704.2.1 through 704.2.5. Installation requirements shall be in accordance with the *Building Code of New York State*.

704.4 Fire Alarm and detection. An approved fire alarm system shall be installed in accordance with Sections 704.4.1 through 704.4.3. Where automatic sprinkler protection is provided in accordance with Section 704.2 and is connected to the building fire alarm system, automatic heat detection shall not be required.

Section 705 Means of Egress

705.3 Number of exits. The number of exits shall be in accordance with Sections 705.3.1 through 705.3.3.

705.3.1. Minimum number. Every story utilized for human occupancy on which there is a work area that includes exits or corridors shared by more than one tenant within the work area shall be provided with the minimum number of exits based on the occupancy and the occupant load in accordance with the *Building Code of New York State*.

705.4 Egress doorways. Egress doorways in any work area shall comply with sections 705.4.1 through 705.4.5.
705.4.1. Two egress doorways required. Work areas shall be provided with two egress doorways in accordance with the requirements of sections 705.4.1.1 and 705.4.1.2

705.4.1.1 Occupant load and travel distance. In any work area, all rooms and spaces having an occupant load greater than 50 or in which the travel distance to an exit exceeds 75 feet shall have a minimum of two egress doorways.

705.4.2 Door swing. In the work area and in the egress path from any work area to the exit discharge, all egress doors serving an occupant load greater than 50 shall swing in the direction of exit travel.

705.4.4 Panic Hardware. In any work area, and in the egress path from any work area to the exit discharge, in buildings or portions thereof of Group A assembly occupancies with an occupant load greater than 100, all required exit doors equipped with latching devices shall be equipped with approved panic hardware.

705.7 Means-of-egress lighting. Means-of-egress lighting shall be in accordance with this section, as applicable.

705.7.2 Artificial Lighting required. Means of egress in all work areas shall be provided with emergency lighting. In the event of a power failure, illumination shall be automatically provided with an emergency power system for the following occupancies where such occupancies require two or more means of egress.

705.8 Exit signs. Exit signs shall be in accordance with this section, as applicable.

Section 707 Structural

707.2 Reduction of strength. Alterations shall not reduce the structural strength or stability of the building, structure, or any individual member thereof.

707.4 Existing structural members. Existing structural components supporting additional equipment or subjected to additional loads based on the *Building Code of New York State* Table 1607.1 and 1607.6 as a result of a reconfiguration of spaces shall comply with sections 707.4.1 through 707.4.3.

707.4.1 Gravity loads. Existing structural elements supporting any additional gravity loads as a result of additional equipment or space reconfiguration shall comply with the *Building Code of New York State*.

Exceptions:

1. Structural elements whose stress is not increased by more than 5 percent.

707.4.2 Lateral loads. Buildings in which Level 2 alterations increase the seismic base shear by more than 10 percent or decrease the seismic base shear capacity by more than 10 percent shall comply with the structural requirements specified in sections 807.5 and 807.7. Changes in base shear and base shear capacity shall be calculated relative to conditions at the time of the original construction.

707.4.3 Snow drift loads. Any structural element of an existing building subjected to additional loads from the effects of snow drift as a result of additional equipment shall comply with the *Building Code of New York State*.

Exceptions:

1. Structural elements whose stress is not increased by more than 5 percent.

Section 708 Electrical

708.1 New installations. All newly installed electrical equipment and wiring relating to work done in any work area shall comply with the materials and methods requirements of Chapter 6.

708.2 Existing installations. Existing in all work areas in Group A-1 and A-2 occupancies shall be upgraded to meet the materials of methods requirements of Chapter 6.

Section 709 Mechanical

709.2 Altered existing systems. In mechanically ventilated spaces, existing mechanical ventilation systems that are altered, reconfigured, or extended shall provide not less than 5 cubic feet per minute per person of outdoor air and not less than 15 cfm of ventilation air per person; or not less than the amount of ventilation air determined by the Indoor Air Quality Procedure of ASHRAE 62.

Section 711 Energy Conservation

Energy conservation measures in existing buildings shall be in conformance with section 101 of the Energy Conservation Construction Code of New York State.

Applicable Sections from 2010 Building Code of New York State

This Review assumes that the area of work is in an 'A3' Use group:

CHAPTER 4 SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

Section 404 ATRIUMS

404.1.1 Definition. The following word and term shall, for the purposes of this chapter and as used elsewhere in this code, have the meaning shown herein.

ATRIUM. An opening connecting two or more stories other than enclosed stairways, elevators, hoist ways, escalators, plumbing, electrical, air-conditioning or other equipment, which is closed at the top and not defined as a mall. Stories, as used in this definition, do not include balconies within assembly groups or mezzanines that comply with Section 505.

404.4 Smoke Control. A smoke control system shall be installed in accordance with section 909.

Exception: Smoke control is not required for atriums that connect only two stories.

404.5 Enclosure of Atriums. Atrium spaces shall be separated from adjacent spaces by a 1-hour fire barrier constructed in accordance with Section 706 or a horizontal assembly constructed in accordance with section 711, or both.

Exceptions:
1. A glass wall forming a smoke partition where automatic sprinklers are spaced 6 feet or less along both sides of the separation wall, or on the room side only if there is not a walkway on the atrium side, and between 4 inches and 12 inches away from the glass and designed so that the entire surface of the glass is wet upon activation of the sprinkler system without obstruction. The glass shall be installed in a gasketed frame so that the framing system deflects without breaking (loading) the glass before the sprinkler system operates.

404.6 Standby Power. Equipment required to provide smoke control shall be conne standby power system in accordance with section 909.11.

404.7 Interior finish. The interior finish of walls and ceilings of the atrium shall not be than Class B with no reduction in class for sprinkler protection.

404.8 Travel distance. In other than the lowest level of the atrium, where the require of egress is through the atrium space, the portion of exit access travel distance with atrium space shall not exceed 200 feet.

CHAPTER 7 FIRE-RESISTANCE-RATED CONSTRUCTION

Section 704 EXTERIOR WALLS

704.5 Fire-resistance ratings. Exterior walls shall be fire-resistance rated in accorda Tables 601 and 602. The fire-resistance rating of exterior walls with a fire separatic distance of greater than 5 feet shall be treated for exposure to fire from the inside. resistance rating of exterior walls with a fire separation distance of 5 feet or less sh rated for exposure to fire from both sides.

704.6 Structural stability. The wall shall extend to the height required by section 70- shall have sufficient structural stability such that it will remain in place for the durati indicated by the required fire-resistance rating.

Section 715 OPENING PROTECTIVES

715.4 Fire door and shutter assemblies. Approved fire door and fire shutter assemt be constructed of any material or assembly of component materials that conforms t requirements of Section 715.4.1, 715.4.2 or 715.4.3 ad the fire protection rating ind Table 715.4.

715.4.3 Door assemblies in corridors and smoke barriers. Fire door assemblies re have a minimum fire protection rating of 20 minutes where located in corridor walls smoke-barrier walls having a fire-resistance rating in accordance with Table 715.4 tested in accordance with NFPA 252 or UL 10C without the hose stream test.

715.4.3.1 Smoke and draft control. Fire door assemblies shall also meet the requir for a smoke and draft control door assembly tested in accordance with UL 1784. L shall be prohibited. Installation of smoke doors shall be in accordance with NFPA

CHAPTER 8 INTERIOR FINISHES

Section 803 WALL AND CEILING FINISHES

803.1 General. Interior wall and ceiling finishes shall be classified in accordance with AS E 84. Such interior finish materials shall be grouped in the following classes in accordan with their flame spread and smoke-developed indexes:

Class A: Flame spread 0-25; smoke-developed 0-450
Class B: Flame spread 36-75; smoke-developed 0-450
Class C: Flame spread 76-200; smoke-developed 0-450.

CHAPTER 9 FIRE PROTECTION SYSTEMS

Section 907 FIRE ALARM AND DETECTION SYSTEMS

907.2 Where required-new buildings and structures. An approved manual fire alarm system, automatic fire detection system or automatic heat detection system installed in accordance with the provisions of this code and NFPA 72 shall be provided in new buildings and structures in accordance with Sections 907.2.1 through 907.2.23 and provide occupant notification in accordance with Section 907.9 unless other requirements are provided by ano section of this code. Where automatic sprinkler protection installed in accordance with Sectio 903.3.1.1 or 903.3.1.2 is provided and connected to the building fire alarm system, automati heat detection required by this section shall not be required.
The automatic fire detectors shall be smoke detectors.
907.2.1 Group A. A manual fire alarm system and automatic fire detection system sh be installed in Group A occupancies.

Section 907 SMOKE CONTROL SYSTEMS

[F] 909.7 Airflow design method. When approved by the code enforcement official, smoke migration through openings fixed in a permanently open position, which are located between smoke control zones by the use of the airflow method, shall be permitted. The desig airflow shall be in accordance with this section. Airflow shall be directed to limit smoke migra from the fire zone. The geometry of openings shall be considered to prevent flow reversal fro turbulent effects.
909.8 Exhaust Method. When approved by the code enforcement official, mechanica smoke control for large enclosed volumes shall be permitted to utilize the exhaust method. Smoke control systems using the exhaust method shall be designed in accordance with NFP 92B.

909.8.1 Smoke layer. The height of the lowest horizontal surface of the accumula smoke layer shall be maintained at least 6 feet above any walking surface that forms a p a required egress system with the smoke zone.
909.16 Firefighter's smoke control panel. A fire-fighter's smoke control panel for department emergency response purposes only shall be provided and shall include mar control or override of automatic control for mechanical smoke control systems. The pane be installed in an approved location adjacent to the fire alarm control panel. The fire-figh smoke control panel shall comply with section 909.16.1 through 909.16.3.

CHAPTER 10 MEANS OF EGRESS

Section1003 GENERAL MEANS OF EGRESS

1003.1 Applicability. The general requirements specified in sections 1003 through 1013 shall apply to all three elements of the means of egress system, in addition to those specific requirements for the exit access, the exit and the exit discharge.
1003.2 Ceiling Height. The means of egress shall have a ceiling height of not less than 7 feet 6 inches.
1003.3.2 Horizontal projections. Structural elements, fixtures or furnishings shall not project horizontally from either side more than 4 inches over any walking surface between the heights of 27 inches and 80 inches above the walking surface.
1003.6 Means of egress continuity. The path of egress travel along a means of egress shall not be interrupted by any building element other than a means of egress component as specified in this chapter. Obstructions shall not be placed in the required width of a means of egress except projections permitted by this chapter. The required capacity of a means of egress system shall not be diminished along the path of egress travel.

Section1004 OCCUPANT LOAD

1004.1 Design occupant load. In determining means of egress requirements, the number of occupants for whom means of egress facilities shall be provided shall be determined in accordance with this section. Where occupants from accessory areas egress through a primary space, the calculated occupant load for the primary space shall include the total occupant load of the primary space plus the number of occupants egressing through it from the accessory area.

1004.1.1 Areas without fixed seating. The number of occupants shall be computed at the rate of one occupant per unit of area as prescribed in Table 1004.1.1. For areas without fixed seating, the occupant load shall not be less than that number determined by dividing the floor area under consideration by the occupant per unit of area factor assigned to the occupancy as set forth in Table 1004.1.1

Table 1004.1.1 Maximum Floor Area Allowances per Occupant

FUNCTION OF SPACE	FLOOR AREA IN SQ. FT. PER OCCUPANT
Assembly without fixed seats	
Concentrated (chairs only –not fixed)	7 net
Standing space	5 net
Unconcentrated (tables and chairs)	15 net
Educational	
Classroom area	20 net
Shops and other vocational room areas	50 net
Library	
Reading rooms	50 net
Stack area	100 gross

1004.3 Posting of occupant load. Every room or space that is an assembly occupancy shall have the occupant load of the room or space posted in a conspicuous place, near the main exit or exit access doorway from the room or space. Posted signs shall be of an approved legible permanent design and shall be maintained by the owner or authorized agent.

1004.4 Exiting from multiple levels. Where exits serve more than one floor, only the occupant load of each floor considered individually shall be used in computing the required capacity of the exits at that floor, provided that the exit capacity shall not decrease in the direction of egress travel.

Table 1005.1.1 Egress Width per Occupant served

OCCUPANCY	WITHOUT SPRINKLER SYSTEM		WITH SPRINKLER SYSTEM	
	Stairways (inches per occupant)	Other egress components (inches per occupant)	Stairways (inches per occupant)	Other egress components (inches per occupant)
Occupancies other than those listed below	.3	.2	.2	.15

Section1005 EGRESS WIDTH

1005.1 Minimum required egress width. The means of egress width shall not be less than required by this section. The total width of means of egress in inches shall not be less than the total occupant load served by the means of egress multiplied by the factors in Table 1005.1 and not less than specified elsewhere in this code. Multiple means of egress shall be sized such than the loss of any one means of egress shall not reduce the available capacity to less than 50 percent of the required capacity. The maximum capacity required from any story of a building shall be maintained to the termination of the means of egress.

1005.2 Door encroachment. Doors opening into the path of egress travel shall not reduce the required width to less than one-half during the course of the swing. When fully open, the door shall not project more than 7 inches into the required width.

Section1007 ACCESSIBLE MEANS OF EGRESS

1007.1 Accessible means of egress required. Accessible means of egress shall comply with this section. Accessible spaces shall be provided with not less than one accessible means of egress. Where more than one means of egress is required by section 1015.1 or 1019.1 from any accessible space, each accessible portion of the space shall be served by not less than two accessible means of egress.

Section1008 DOORS, GATES AND TURNSTILES

1008.1 Doors. Means of egress doors shall meet the requirements of this section. Doors serving a means of egress system shall meet the requirements of this section and section 1018.2 Doors provided for egress purposes in numbers greater than required by this code shall meet the requirements of this section.

1008.1.1 Size of doors. The minimum width of each door opening shall be sufficient for the occupant load thereof and shall provide a clear with of not less than 32 inches. Clear opening of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Where this section requires a minimum clear width of 32 inches and a door opening includes two door leaves with a mullion, one leaf shall provide a clear opening width of 21 inches. The height of doors shall not be less than 80 inches.

1008.1.1.1 Projections into clear width. There shall not be projections into the required clear width lower than 34 inches above the floor or ground. Projections into the clear opening width between 34 inches and 80 inches above the floor or ground shall not exceed 4 inches.

1008.1.2 Door swing. Egress doors shall be side – hinged swinging. Doors shall swing in the direction of egress travel where serving an occupant load of 50 or more persons. The opening force for interior side-swinging doors without closers shall not exceed a 5-pound force. For other side-swinging doors, the door latch shall release when subjected a 15-pound force. The door shall be set in motion when subjected to a 30 pound force. The door shall swing to a full-open position when subjected to a 15 pound forces. Forces shall be applied to the latch side.

1008.1.3.1 Revolving Doors. Revolving doors shall comply with the following:

1008.1.3.1.1 Egress component. A revolving door used as a component of a means of egress shall comply with section 1008.1.3.1 and the following three conditions:

1. Revolving doors shall not be given credit for more than 50 percent of the required egress capacity.
2. Each revolving door shall be credited with no more than a 50-person capacity.

1008.1.3.2 Power-operated doors. Where means of egress doors are operated by power, such as doors with a photoelectric-actuated mechanism to open the door upon the approach of a person, or doors with power-assisted manual operation, the design shall be such that in the event of power failure, the door is capable of being opened manually to permit means of egress travel or closed where necessary to safeguard means of egress. The forces required to open these doors manually shall not exceed those specified in section 1008.1.12 except that the force to set the door in motion shall not exceed 50 pounds.

1008.1.6 Thresholds. Thresholds at doorways shall not exceed .5 inches. Raised thresholds and floor level changes greater than .25 inches at doorways shall be beveled with a slope not greater than one unit vertical in two units horizontal.

1008.1.9 Panic and fire exit hardware. Where panic and fire exit hardware is installed, it shall comply with the following:

1. The actuating portion of the releasing device shall extend at least one-half of the door leaf width.
2. The maximum unlatching force shall not exceed 15 pounds.

Section1011 EXIT SIGNS

1011.1 Where required. Exits and exit access doors shall be marked bay an approved exit sign readily visible from any direction of egress travel.

1011.2 Illumination. Exit signs shall be internally or externally illuminated.

Section1013 GUARDS

1013.1 Where required. Guards shall be located along open-sided walking surfaces, mezzanines, and landings that are more than 30 inches above the floor or grade below. Guards shall be adequate in strength and attachment in accordance with section 1607.7.

1013.2 Height. Guards shall form a protective barrier not less than 42 inches high, measured vertically above the leading edge of the tread, or the adjacent walking surface.

1013.3 Opening limitations. Open guards shall have balusters or ornamental patterns such that a 4 inch diameter sphere cannot pass through any opening up to a height of 34 inches. From a height of 34 to 42 inches above the adjacent walking surfaces a sphere 8 inches in diameter shall not pass.

Section1015 EXIT AND EXIT ACCESS DOORWAYS

1015.1 Exit or exit access doorways required. Two exits or exit access doorways from any space shall be provided where one of the following conditions exists:

OCCUPANCY	MAXIMUM OCCUPANT LOAD
A, B	49

1. The occupant load of the space exceeds the values in Table 1015.1.

2. The common path of egress travel exceeds the limitations of Section 1014.3.

3. Where required by Sections 1015.3, 1015.4 and 1015.5.

1015.2 Exit or exit access doorway arrangement. Required exits shall be located in a manner that makes their availability obvious. Exits shall be unobstructed at all times. Exit and exit access doorways shall be arranged in accordance with Sections 1015.2.1 and 1015.2.2.

1015.2.1 Two exits or exit access doorways. Where two exits or exit access doorways are required from any portion of the exit access, the exit doors or exit access doorways shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between exit doors or exit access doorways. Interlocking or scissor stairs shall be counted as one exit stairway.

Exceptions:
1. Where exit enclosures are provided as a portion of the required exit and are interconnected by a 1-hour fire-resistance-rated corridor conforming to the requirements of Section 1017, the required exit separation shall be measured along the shortest direct line of travel within the corridor.

2. Where a building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2, the separation distance of the exit doors or exit access doorways shall not be less than one-third of the length of the maximum overall diagonal dimension of the area served.

Section1025 ASSEMBLY

1025.2 Assembly main exit. Group A occupancies that have an occupant load of greater than 300 shall be provided with a main exit. The main exit shall be of sufficient width to accommodate not less than one half of the occupant load, but such width shall not be less than the total required width of all means of egress leading to the exit. Where the building is classified as a Group A occupancy, the main exit shall front on at least one street or an unoccupied space of not less than 10 feet in width that adjoins a street or public way.

CHAPTER 11 ACCESSIBILITY

Section1103 GENERAL MEANS OF EGRESS

1105 Applicability. In addition to accessible entrances required by sections 1105.1.1 through 1105.1.6 at least 60 percent of all public entrances shall be accessible.

Table 1108.2.2.1 ACCESSIBLE WHEELCHAIR SPACES

CAPACITY OF SEATING IN ASSEMBLY AREAS	MINIMUM REQUIRED NUMBER OF WHEELCHAIR SPACES
4 to 25	1
26 to 50	2
51 to 100	4
101 to 300	5

ICC/ANSI 117.1-2003 Accessible & Usable Buildings and Facilities

CHAPTER 8 SPECIAL ROOMS AND SPACES

802.7 Companion Seat. A companion seat, complying with Section 802.7, shall be provided beside each wheelchair space.

802.7.1 Companion Seat Type. The companion seat shall be comparable in size and quality to assure equivalent comfort to the seats within the seating area adjacent to the wheelchair space location. Companion seats shall be permitted to be moveable.

802.7.2 Companion Seat Alignment. In row seating, the companion seat shall be located to provide shoulder alignment with the wheelchair space occupant. The shoulder of the wheelchair space occupant is considered to be 36 inches from the front of the wheelchair space. The floor surface for the companion seat shall be at the same elevation as the wheelchair space floor surface.

END OF CODE REVIEW

[redacted]

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

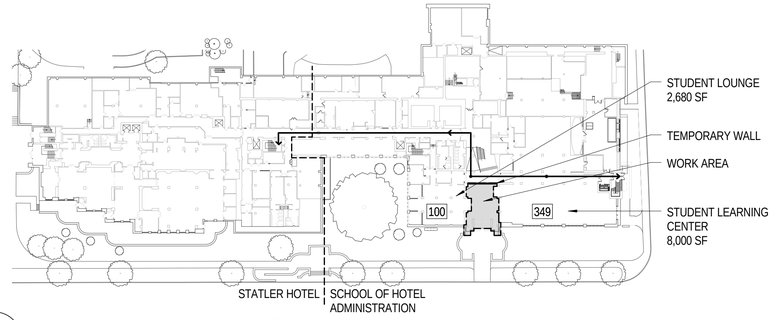
50% CONSTRUCTION DOCUMENTS

Project No.: 2012.21786
Issued: 10/23/2013
Scale:

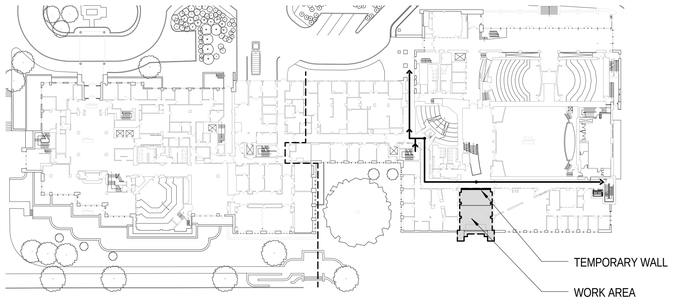
CODE NOTES

CS2

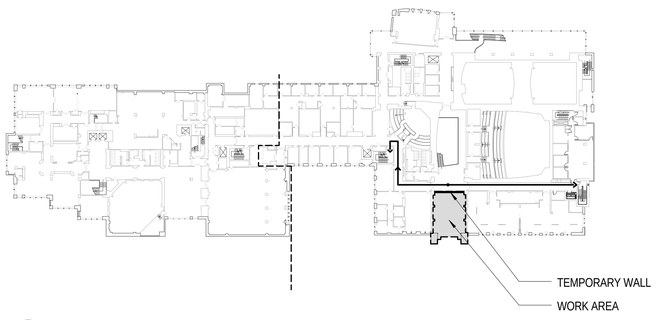
[redacted]



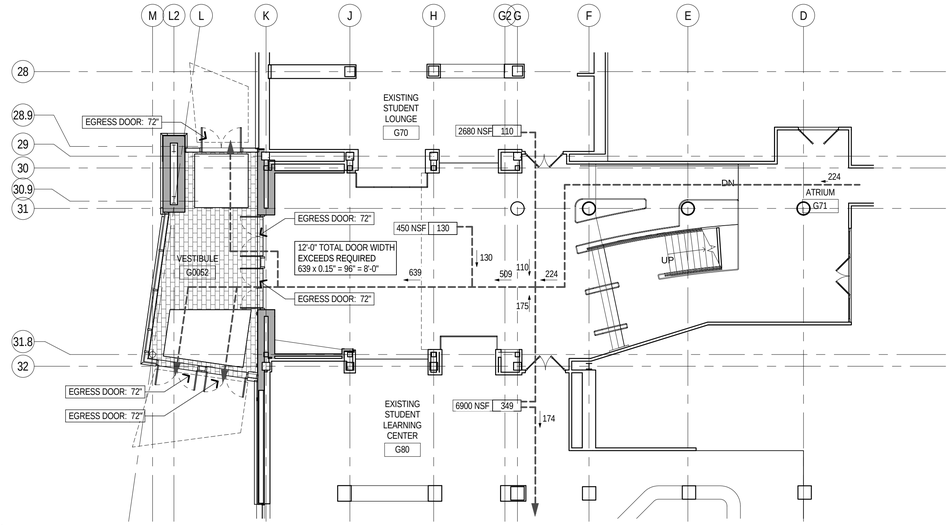
1 CS3 Temporary Egress Diagram - Ground Floor
1/64" = 1'-0"



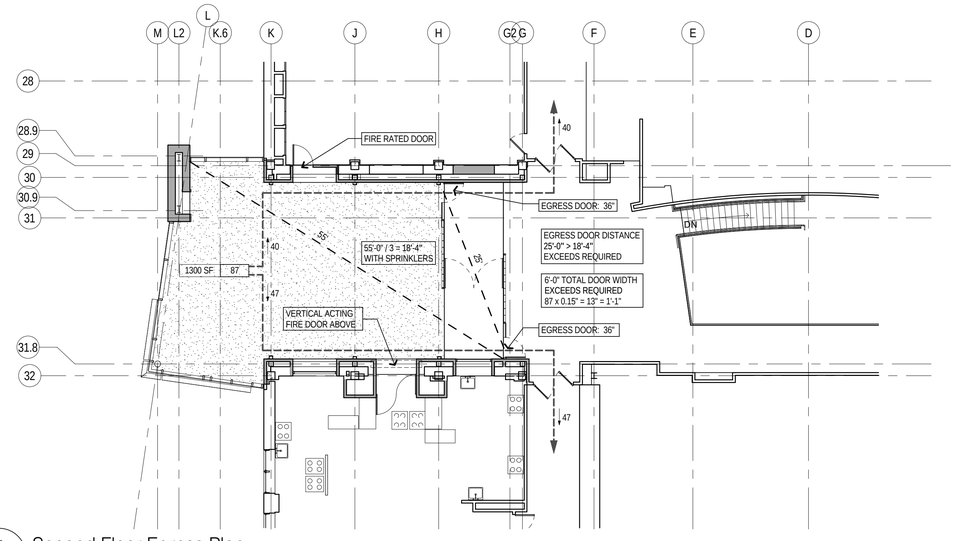
2 CS3 Temporary Egress Diagram - First Floor
1/64" = 1'-0"



3 CS3 Temporary Egress Diagram - Second Floor
1/64" = 1'-0"



4 CS3 Ground Floor Egress Plan
3/32" = 1'-0"



5 CS3 Second Floor Egress Plan
3/32" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

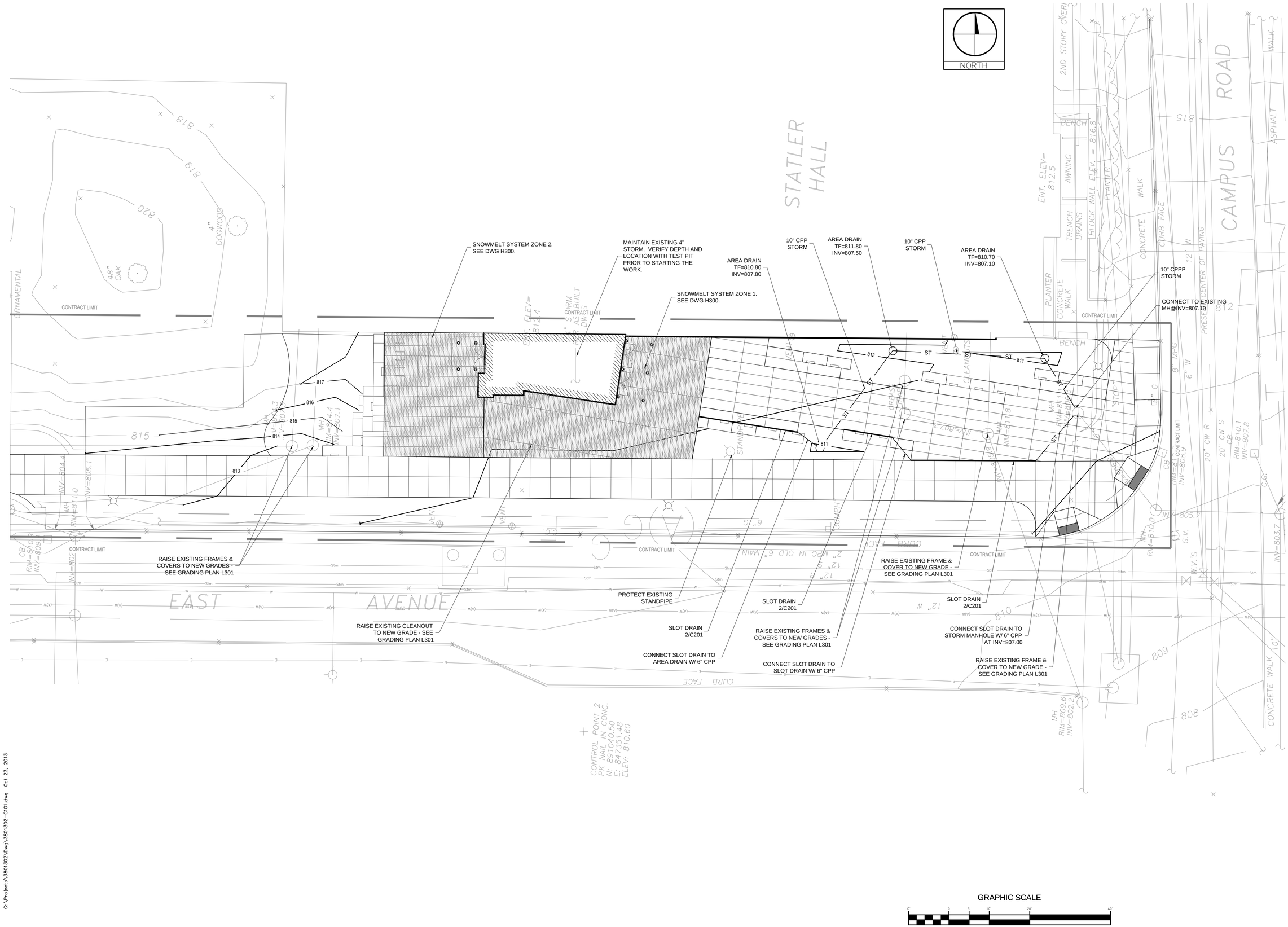
Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 2012.21786
Issued: 10/23/2013
Scale: As indicated

EGRESS & LIFE SAFETY

CS3



School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

Trowbridge Wolf Micheals
Landscape Architects
1001 West Seneca Street, Suite 101
Ithaca, New York 14850
607.277.1400

Clark Engineering & Surveying P.C.
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

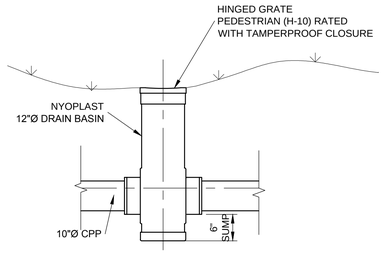
Cornell University

50% Construction Documents
Project No.: 2012.21786
Issued: 10/23/2013
Scale: As Shown

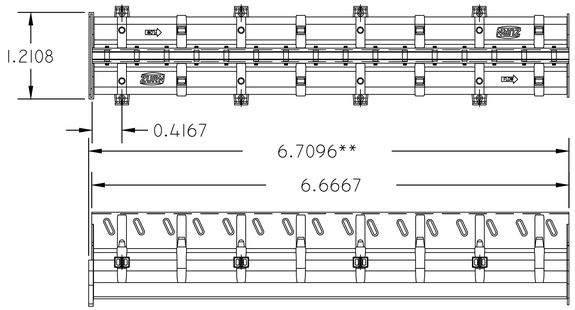
SITE UTILITY PLAN

C101

G:\Projects\3801302\Dwg\3801302-C101.dwg Oct 23, 2013



4	AREA DRAIN DETAIL
REF: C101	SCALE: NTS

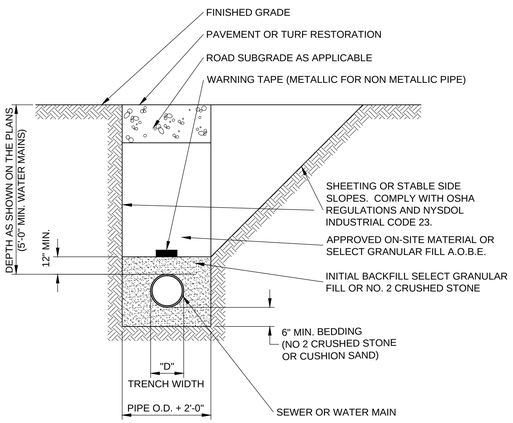


** 80½ [2045] LENGTH INCLUDES
MALE/FEMALE JOINT OVERLAP

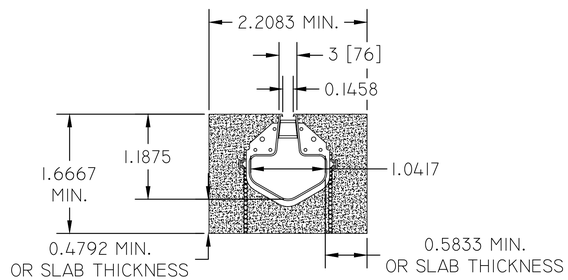
2	SLOT DRAIN LONGITUDINAL SECTION AND TOP VIEW
REF: C101	SCALE: NTS

6	NOT USED
REF: C101	SCALE: NTS

NOTES:
1. COMPACT ALL BACKFILL TO 95% PROCTOR (ASTM D1557)



1	TYPICAL TRENCH DETAIL
REF: C101	SCALE: NTS



2	SLOT DRAIN SECTION VIEW
REF: C101	SCALE: NTS

3	NOT USED
REF:	SCALE: NTS

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

Trowbridge Wolf Micheals
Landscape Architects
1001 West Seneca Street, Suite 101
Ithaca, New York 14850
607.277.1400

Clark Engineering & Surveying P.C.
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

50% Construction Documents
Project No.: 2012.21786
Issued: 10/23/2013
Scale: As Shown

SITE UTILITY DETAILS

C201

G:\Projects\3801302\Dwg\3801302-C201.dwg Oct 23, 2013

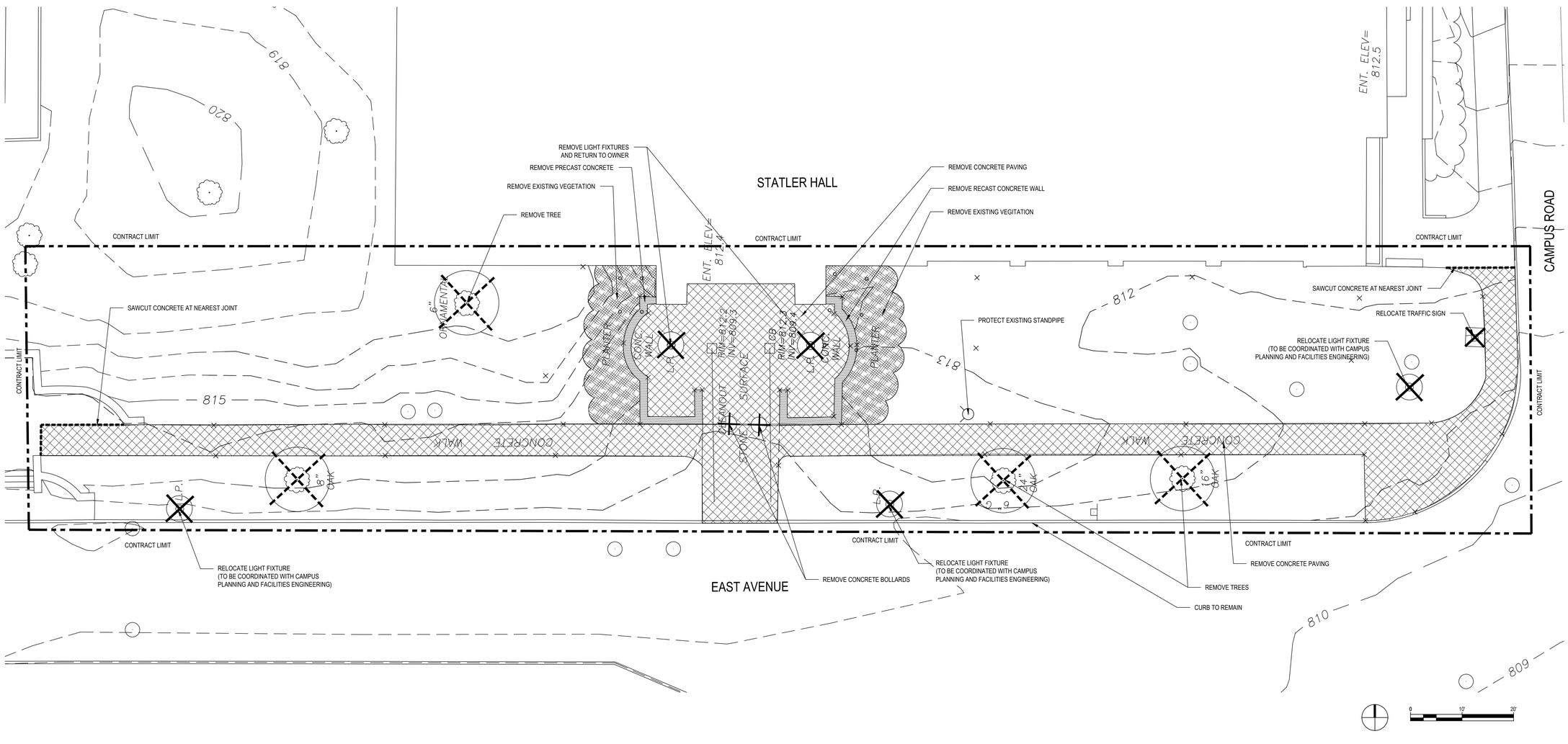
LEGEND

- PRECAST CONCRETE WALLS TO BE REMOVED
- CONCRETE PAVEMENT TO BE REMOVED
- REMOVE EXISTING VEGETATION
- TREE PROTECTION FENCE
- TREE TO BE REMOVED
- REMOVE LIGHT POLE
- REMOVE CONCRETE BOLLARDS
- RELOCATE VEHICULAR TRAFFIC SIGN
- SAWCUT PAVEMENT
- CONTRACT LIMIT LINE

GENERAL NOTES - DEMOLITION

DEMOLITION NOTES:

1. CONSTRUCTION FENCING TO BE INSTALLED AS NECESSARY TO PROTECT PEDESTRIANS, CONTROL VEHICULAR TRAFFIC AND PROTECT ON-SITE CONSTRUCTION MATERIALS.
2. CONTRACTOR TO SCHEDULE WITH THE OWNER AND FOLLOW ANY APPLICABLE PROCEDURES WHEN WORK NEAR ANY ADJACENT BUILDING INGRESS OR EGRESS, OR PUBLIC SIDEWALK WILL TAKE PLACE AND IF TEMPORARY/PARTIAL CLOSURE NEEDS TO OCCUR.
3. GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS HAVING UNDERGROUND UTILITIES ON SITE PRIOR TO EXCAVATION.
4. AS PER N.Y.S. INDUSTRIAL CODE 753: CONTRACTOR TO CALL DIG SAFELY NEW YORK (1-800-962-7962) TO LOCATE BURIED CABLES OR OTHER UNDERGROUND UTILITIES NO LESS THAN TWO OR MORE THAN TEN WORKING DAYS PRIOR TO DIGGING, DRILLING, EXCAVATING, DRIVING POSTS, ETC.
5. EXISTING STRUCTURE FOOTINGS TO BE REMOVED COMPLETELY UNLESS OTHERWISE NOTED ON PLAN.
6. PROVIDE SEDIMENTATION CONTROLS AT ALL EXISTING CATCH BASINS AFFECTED BY CONSTRUCTION. SEE CIVIL DRAWING C103 EROSION AND SEDIMENT CONTROL PLAN AND WRITTEN SPECIFICATIONS.
7. BASE MATERIAL IN AREAS TO RECEIVE ASPHALT OR CONCRETE TO BE EXCAVATED TO SUB-GRADE ELEVATIONS AS REQUIRED TO ACCOMMODATE BASE COURSE.
8. PROTECT ALL SURFACE AND SUBSURFACE UTILITIES TO REMAIN DURING DEMOLITION WORK.
9. ALL REMOVED/DEMOLISHED MATERIAL SHALL BECOME CONTRACTOR'S PROPERTY AND REMOVED FROM SITE, UNLESS NOTED OTHERWISE. OWNER TO RESERVE RIGHT OF FIRST REFUSAL ON ALL DEMOLISHED MATERIAL.
10. ALL TREE STUMPS ARE TO BE REMOVED COMPLETELY, ALONG WITH ALL ROOTS 6" AND LARGER.
11. PROTECT EXISTING TREES TO REMAIN. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN THE DRIPLINE OF TREES.
12. PROTECT BENCHMARKS.



School of Hotel Administration

East Avenue Entry and Second Floor Infill

Cornell University

Ithaca, NY 14853

REVISIONS

No.	Date	Description

M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

Trowbridge Wolf Micheals
Landscape Architects
1001 West Seneca Street, Suite 101
Ithaca, New York 14850
607.277.1400

K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

50% Construction Documents

Project No.:	2012.21786
Issued:	10.23.2013
Scale:	AS NOTED

DEMOLITION PLAN

L101

C:\Users\JKonicek\Documents\SHA East Entry_786_JKonicek(Recovery).rvt
9/25/2013 8:34:23 AM

LEGEND

- CONCRETE PAVEMENT (EXPOSED AGGREGATE FINISH)
- CONCRETE PAVEMENT (BROOM FINISH)
- ADA DETECTABLE WARNING PLATES
- STONE SLAB SEATING & RETAINING WAL
- SAWCUT PAVEMENT
- EXTENT OF SNOW MELT SYSTEM
- CONTRACT LIMIT LINE

GENERAL SHEET NOTES - LAYOUT

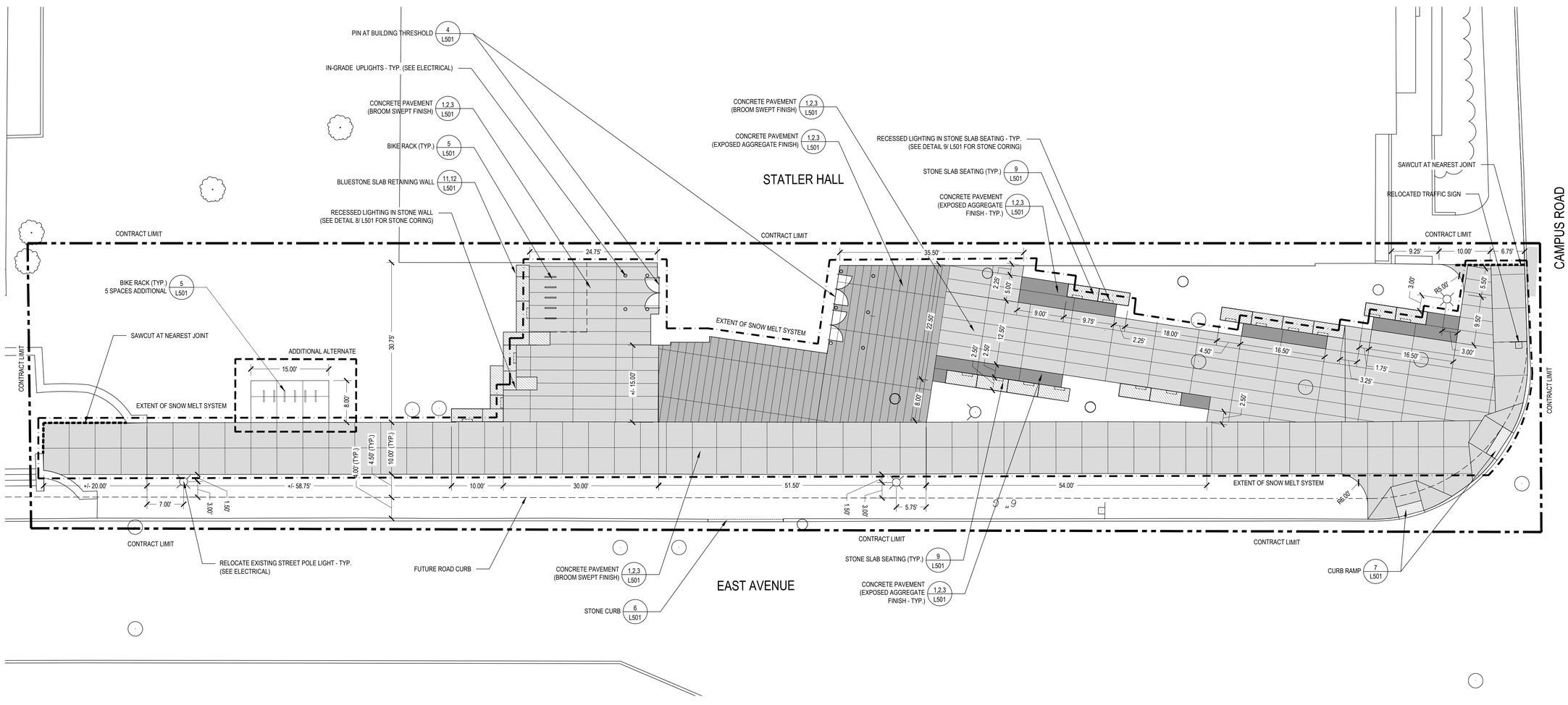
1. SEE CIVIL DRAWINGS FOR LAYOUT OF UNDERGROUND UTILITIES.
2. VERIFY DIMENSIONS AND ACCEPT CONDITIONS BEFORE PROCEEDING WITH WORK. REPORT DISCREPANCIES TO LANDSCAPE ARCHITECT FOR INSTRUCTION BEFORE PROCEEDING. DO NOT MEASURE DRAWINGS.
3. WALKS, DRIVES, PARKING & BUILDING LOCATIONS TO BE LAID OUT IN THE FIELD BY A LICENSED SURVEYOR.
4. DIMENSIONS TO CURBS ARE TO EXPOSED FACES UNLESS NOTED OTHERWISE.
5. SEE GRADING PLAN L301 FOR SPOT ELEVATIONS AT SITE FEATURES INCLUDING TOP AND BOTTOM OF SITE WALLS AND CORNERS OF PAVEMENTS.
6. THERE IS NO GUARANTEE THAT ALL EXISTING UNDERGROUND OR OVERHEAD UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT AREA ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES BEFORE STARTING WORK AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THE WORK AS SHOWN ON THE DRAWINGS .
7. CONTRACTOR TO PROVIDE TEMPORARY TRAFFIC SIGNS WHERE NECESSARY, CONSISTENT WITH ALL RELEVANT BUILDING CODES.
8. INSTALL EXPANSION JOINTS EVERY 30' IN CONCRETE AND IN AREAS WHERE CONCRETE ABUTS CURBS AND OTHER FIXED OBJECTS.

SITE FURNISHINGS SCHEDULE

SYMBOL	QTY	ITEM	MANUFACTURER / MODEL	COMMENTS
	6	BICYCLE RACK	DERO / CORNELL HOOP RACK	FINSHES: SEE SPECIFICATIONS

LIGHT FIXTURE SCHEDULE

SYMBOL	QTY	ITEM	MANUFACTURER / MODEL
	18	RECESSED LIGHT	BEGA - 2005P
	10	INGRADE LIGHT	MODA - 12 G2
	3	STREET LIGHT	(RELOCATE EXISTING)



School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

Trowbridge Wolf Micheals
Landscape Architects
1001 West Seneca Street, Suite 101
Ithaca, New York 14850
607.277.1400

K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

50% Construction Documents

Project No.:	2012.21786
Issued:	10.23.2013
Scale:	AS NOTED

LAYOUT PLAN

L201

C:\Users\JKonicek\Documents\SHA East Entry_786_JKonicek(Recovery).rvt
9/25/2013 8:34:23 AM

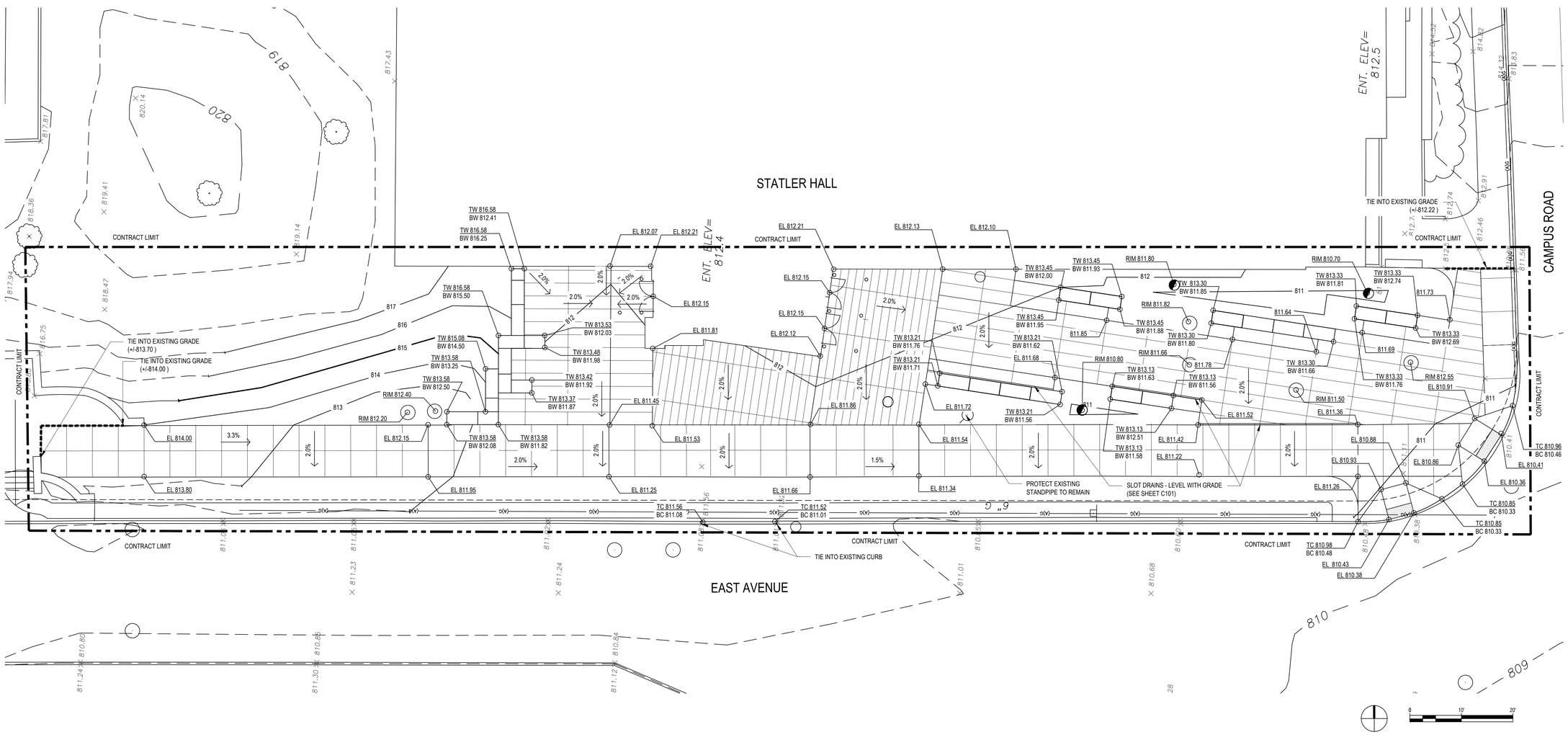
LEGEND

— — — — —	EXISTING CONTOUR
———	MAJOR CONTOUR
———	CONTOUR
◐	AREA DRAIN
○	MANHOLE
+846.00	SPOT ELEVATION
× TC911.60 BC911.17	EXISTING SPOT ELEVATION

EL	=	SPOT ELEVATION
TC	=	TOP OF CURB
BC	=	BOTTOM OF CURB
TW	=	TOP OF WALL
BW	=	BOTTOM OF WALL
RIM	=	RIM ELEVATION

GENERAL SHEET NOTES - GRADING

1. GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY AND LOCATE ALL UTILITIES PRIOR TO GRADING START.
2. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE SWPPP.
3. GRADING AROUND EXISTING TREES TO BE MINIMIZED.
4. MINIMIZE IMPACT TO EXISTING, REMAINING LANDSCAPE WHILE EXCAVATING. GREAT CARE IS TO BE TAKEN TO AVOID DISTURBING ROOTS OF EXISTING TREES. HAND EXCAVATION AND/OR EXCAVATION WITH AN AIR SPADE WILL BE REQUIRED WHERE EXISTING TREE ROOTS ARE PRESENT.
5. ALL EXISTING UTILITY COVERS AND GRATES WITHIN THE AREA OF DISTURBANCE ARE TO BE ADJUSTED TO MEET GRADES.
6. SEE CIVIL, ELECTRICAL AND PLUMBING DRAWINGS FOR UTILITIES.
7. THE CONTRACTOR SHALL FIELD VERIFY EXISTING TOPOGRAPHY PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS. ANY DISCREPANCIES WHICH WILL AFFECT THE WORK REQUIRED AS PART OF THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT.
8. ALL EXISTING UTILITY COVERS AND GRATES WITHIN THE AREA OF DISTURBANCE ARE TO BE ADJUSTED TO MEET PROPOSED



School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

Trowbridge Wolf Micheals
Landscape Architects
1001 West Seneca Street, Suite 101
Ithaca, New York 14850
607.277.1400

KSS ARCHITECTS LLP
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

50% Construction Documents

Project No.:	2012.21786
Issued:	10.23.2013
Scale:	AS NOTED

GRADING PLAN

L301

C:\Users\JKonicek\Documents\SHA East Entry_786_JKonicek(Recovery).rvt
9/25/2013 8:34:23 AM

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
SHRUBS						
IV		Ilex x 'Mondo'	Little Rascal Holley	#5	Cont	Male
PO		Physocarpus opulifolius	Tiny Wine Ninebark	#3	Cont	
RT		Rosa x 'Taniripsa'	Glacier Magic Shrub Rose	#3	Cont	
SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
PERENNIALS & BULBS						
DID		Diantus deltoides 'Arctic Fire'	Arctic Fire Maiden Pinks	#5	Cont	
GSA		Geranium sanguineum 'Album'	White Bloody Cranesbill	#5	Cont	
TPB		Tulipa 'Bastogne'	Bastogne Tulip		Bulb	4" O.C.
NPD		Narcissus poeticus var. Mount Hood	Mount Hood Daffodil		Bulb	4" O.C.
IHB		Iris hollandica 'Blue Pearl'	Blue Pearl Dutch Iris		Bulb	Clusters (25 ea)
MSA		Miscanthus sinensis 'Little Kitten'	Little Kitten Maidenhair Grass	#3	Cont.	
PAH		Pennisetum alopecuroides 'Hamlin'	Dwarf Fountain Grass	#2	Cont.	

LEGEND

TREE
SEE 4/L502 & 11/L502

SHRUBS / PERENNIALS
SEE 3/L502 & 11/L502

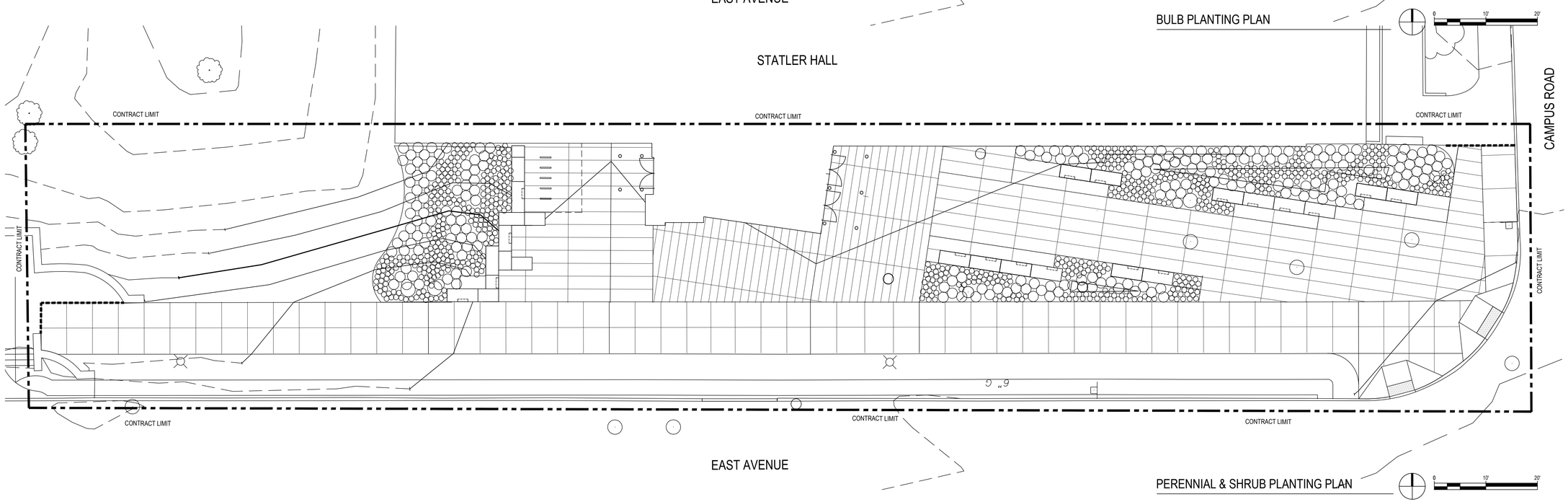
TREE PROTECTION FENCE

CONTRACT LIMIT LINE

GENERAL SHEET NOTES - PLANTING

1. TOPSOIL MUST BE SCREENED AND AMENDED TO MEET PROJECT SPECIFICATIONS. SEE WRITTEN SPECIFICATIONS FOR REQUIREMENTS OF VARIOUS SOIL MIXES.
2. ALL PLANTING BEDS TO BE PREPARED AS SPECIFIED: SHRUB BEDS TO BE PREPARED IN THEIR ENTIRETY WITH 18" OF PLANTING SOIL MIX. LAWN AREAS TO BE PREPARED WITH 4" OF TOPSOIL PER SPECIFICATIONS.
3. AFTER BEDS ARE PREPARED, THE LANDSCAPE CONTRACTOR IS TO LOCATE SHRUBS AND PERENNIALS AS SHOWN ON PLANS. SHRUB AND PERENNIAL LOCATIONS ARE TO BE APPROVED BY LANDSCAPE ARCHITECT BEFORE THEY ARE PLANTED.
4. NO PLANTS ARE TO BE PLANTED UNDER ROOF OVERHANGS OR CANOPIES.
5. ALL DISTURBED AREAS THAT ARE NOT SHOWN AS PAVED OR PLANTED BED ARE TO BE SEEDED AS LAWN. PREPARE AND SEED LAWN AS PER SPECIFICATIONS, UNLESS OTHERWISE INDICATED.
6. ALL PLANTS TO COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI 260.1 "AMERICAN STANDARD FOR NURSERY STOCK".
7. MAINTAIN AND WARRANTY ALL LIVING PLANT MATERIAL AS PER SPECIFICATIONS.
8. APPLY EROSION CONTROL BLANKET TO ALL SLOPES 3:1 OR GREATER AS SPECIFIED.
9. SEE DRAWING L402 FOR LIMITS OF LAWN PLANTING
10. SEE DRAWING L402 FOR LIMITS OF VARIOUS SOIL MIXES.

BULB PLANTING PLAN



PERENNIAL & SHRUB PLANTING PLAN

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

Trowbridge Wolf Micheals
Landscape Architects
1001 West Seneca Street, Suite 101
Ithaca, New York 14850
607.277.1400

K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

50% Construction Documents

Project No.:	2012.21786
Issued:	10.23.2013
Scale:	AS NOTED

PLANTING PLAN

L401

C:\Users\JKonicek\Documents\SHA East Entry_786_JKonicek(Recovery).rvt
9/25/2013 8:34:23 AM

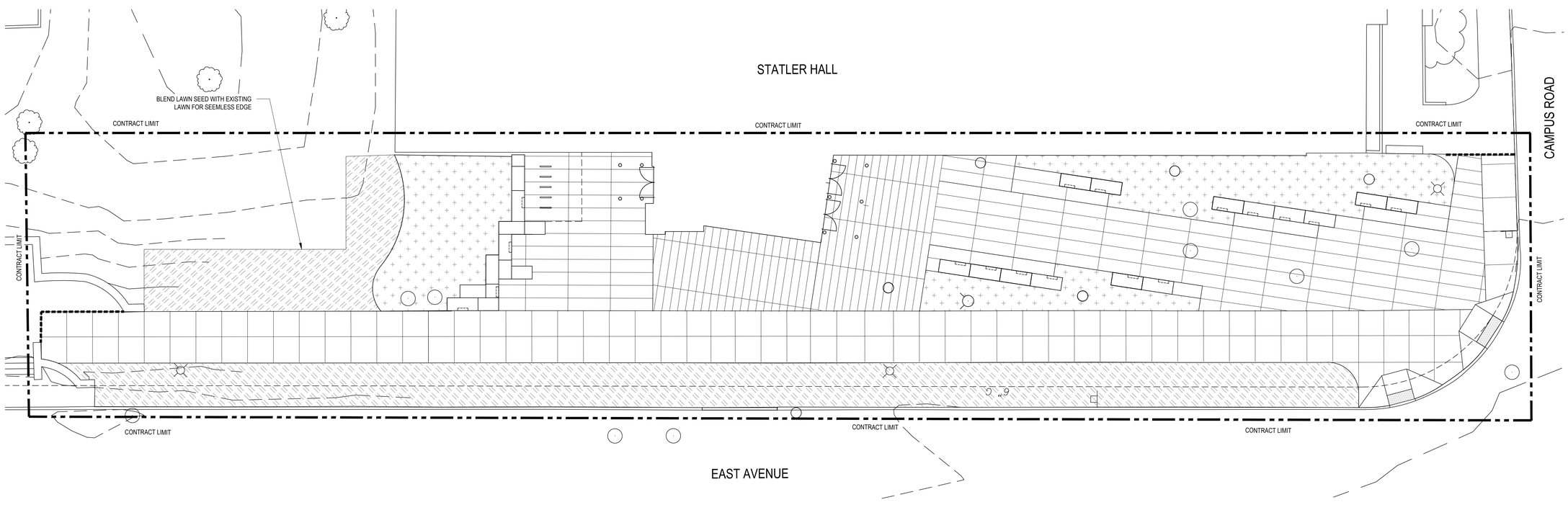
LEGEND

PLANTING BED WITH SHREDDED HARDWOOD MULCH 30" PLANTING SOIL MIX AND 4" MULCH (REFER TO DETAL 10 / L501)

SOD (REFER TO DETAIL 8 / L501)
4" TURF SOIL

GENERAL SHEET NOTES - SOILS

1. TOPSOIL MUST BE SCREENED AND AMENDED TO MEET PROJECT SPECIFICATIONS. SEE WRITTEN SPECIFICATIONS FOR REQUIREMENTS OF VARIOUS SOIL MIXES.
2. ALL PLANTING BEDS TO BE PREPARED AS SPECIFIED: SHRUB BEDS TO BE PREPARED IN THEIR ENTIRETY WITH 18" OF PLANTING SOIL MIX. LAWN AREAS TO BE PREPARED WITH 4" OF TOPSOIL PER SPECIFICATIONS.
3. AFTER BEDS ARE PREPARED, THE LANDSCAPE CONTRACTOR IS TO LOCATE SHRUBS AND PERENNIALS AS SHOWN ON PLANS. SHRUB AND PERENNIAL LOCATIONS ARE TO BE APPROVED BY LANDSCAPE ARCHITECT BEFORE THEY ARE PLANTED.
4. NO PLANTS ARE TO BE PLANTED UNDER ROOF OVERHANGS OR CANOPIES.
5. ALL DISTURBED AREAS THAT ARE NOT SHOWN AS PAVED OR PLANTED BED ARE TO BE SEEDED AS LAWN. PREPARE AND SEED LAWN AS PER SPECIFICATIONS, UNLESS OTHERWISE INDICATED.
6. ALL AND PLANTS TO COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI 260.1 "AMERICAN STANDARD FOR NURSERY STOCK".
7. MAINTAIN AND WARRANTY ALL LIVING PLANT MATERIAL AS PER SPECIFICATIONS.
8. APPLY EROSION CONTROL BLANKET TO ALL SLOPES 3:1 OR GREATER AS SPECIFIED.
9. SEE DRAWING L401 FOR PLANT MATERIAL.



School of Hotel Administration

East Avenue Entry and Second Floor Infill

Cornell University

Ithaca, NY 14853

REVISIONS

No.	Date	Description

M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

Trowbridge Wolf Micheals
Landscape Architects
1001 West Seneca Street, Suite 101
Ithaca, New York 14850
607.277.1400

K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

50% Construction Documents

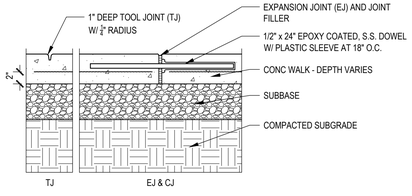
Project No.:	2012.21786
Issued:	10.23.2013
Scale:	AS NOTED

TURF, SOILS, AND MULCH PLAN

L402

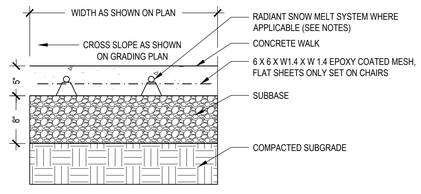
C:\Users\JKonicek\Documents\SHA East Entry_786_JKonicek(Recovery).rvt

9/25/2013 8:34:23 AM



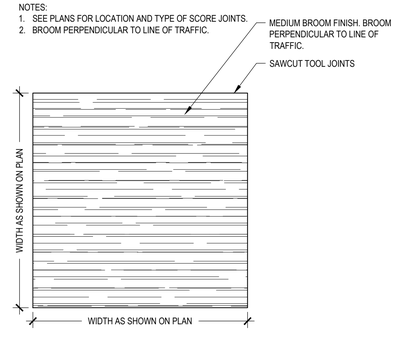
1 CONCRETE JOINTS
Scale: 1"=1'-0"

NOTES:
1. REFER TO DETAIL 1/H400 FOR RADIANT SNOWMELT SYSTEM INSTALLATION
2. REFER TO SHEET H300 FOR EXTENTS OF RADIANT SNOWMELT SYSTEM.



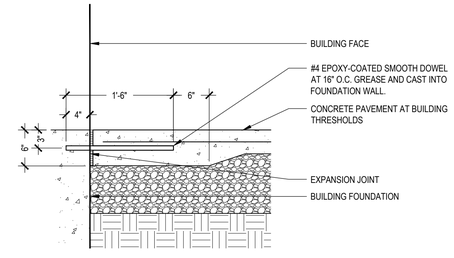
2 MEDIUM DUTY CONCRETE WALK DETAIL
Scale: 1"=1'-0"

NOTES:
1. SEE PLANS FOR LOCATION AND TYPE OF SCORE JOINTS.
2. BROOM PERPENDICULAR TO LINE OF TRAFFIC.

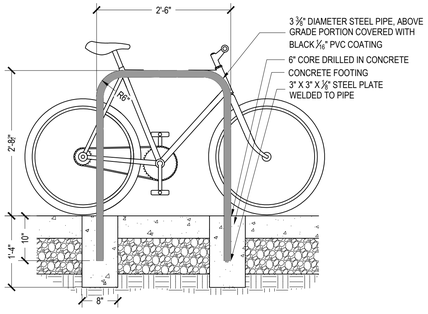


3 CONCRETE BROOM FINISH (SAWCUT JOINTS)
Scale: 3/4"=1'-0"

NOTES:
1. 2" MINIMUM CONCRETE COVERAGE AROUND PIN AND MESH

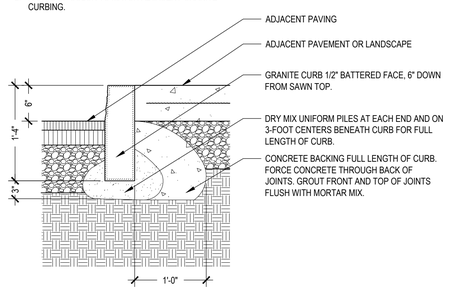


4 PIN AT BUILDING THRESHOLD
Scale: 1"=1'-0"



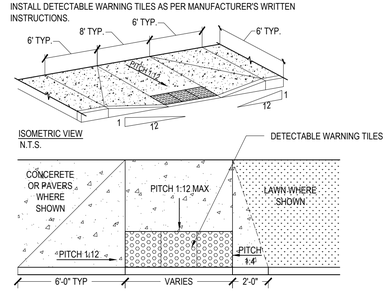
5 DERO 42 1/2 X 30" BICYCLE RACK HD : CORNELL HOOP
Scale: 3/4"=1'-0"

NOTES:
1. RADIUS CURBING SHALL BE USED ON ALL RADII LESS THAN 100 FEET.
2. RANGE OF COLOR TO MATCH ADJACENT GRANITE CURBING.



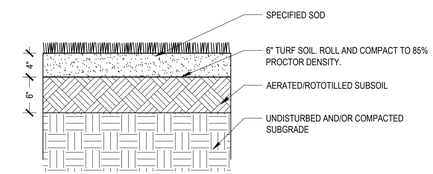
6 GRANITE CURB
Scale: 1"=1'-0"

NOTES:
1. SEE LAYOUT PLAN FOR LOCATION OF CURB RAMPS.
2. DETECTABLE WARNING TILES TO BE DARK GREY VITRIFIED POLYMER COMPOSITE BY ARMOR-TILE.
3. INSTALL DETECTABLE WARNING TILES AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.



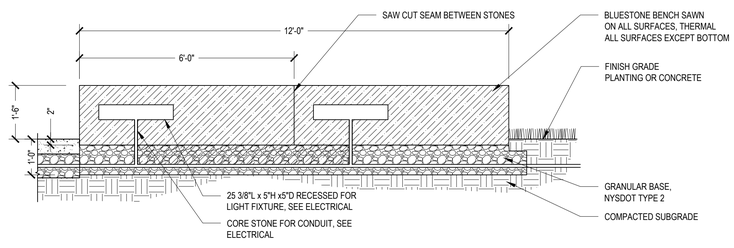
7 CURB RAMP
Scale: 1/4"=1'-0"

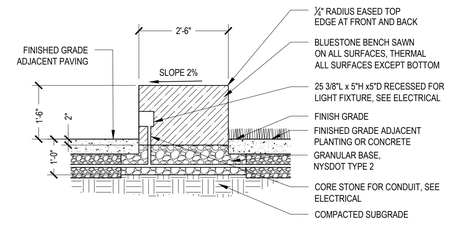
NOTES:
1. SEE L-402 TURF AND SOIL PLACEMENT PLAN FOR EXTENTS



8 LAWN ESTABLISHMENT
Scale: 1"=1'-0"

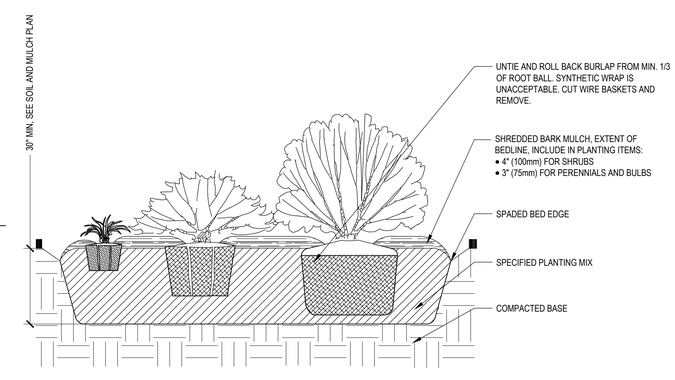
NOTES:
1. BLUESTONE BENCHES ARE TO BE CONSTRUCTED OF BLOCKS OF STONE WITH SMOOTH SAWN SIDES AND TOP. ROUND ALL CORNERS TO ELIMINATE SHARP EDGES.
2. HANDLE STONE CAREFULLY AND TAKE CARE NOT TO CRACK OR CHIP STONES. CRACKED OR CHIPPED STONES WILL BE REJECTED.
3. LEVEL STONE BENCHES, TRUE AND PLUMB.





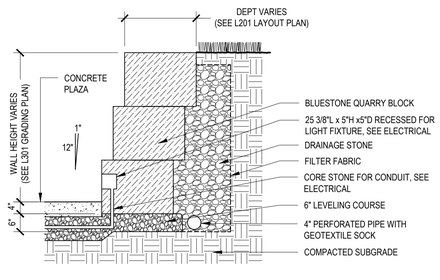
9 STONE SLAB SEATING
Scale: 1/2"=1'-0"

NOTES:
1. PLANT AT SAME DEPTH AS PREVIOUSLY PLANTED IN NURSERY OR CONTAINER
2. PROVIDE COMPACTED BASE UNDER ROOT BALL ONLY TO PREVENT SETTLING
3. ENTIRE BED EXCAVATED AND BACKFILLED WITH PLANTING MIX



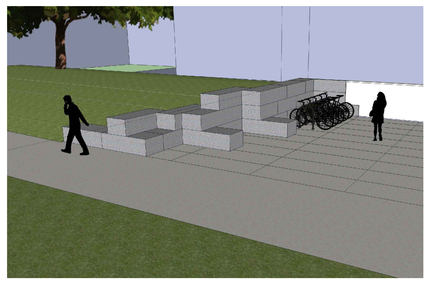
10 PERENNIAL AND SHRUB PLANTINGS
Scale: 1/2"=1'-0"

NOTES:
1. PLACE BLOCK FACES AT VARIED DEPTHS & ORIENTATIONS. SEE DESIGN INTENT 12/L501
2. PITCH HORIZONTAL COURSES TO THE REAR.
3. STONE IS DRY LAID, ENDS NOT EXPOSED ARE TO BE SAWN IF NECESSARY TO ACHIEVE CONSISTENT JOINTING NO GREATER THAN 1/4".



11 STONE SLAB RETAINING WALL
Scale: 1/2"=1'-0"

NOTES:
1. BLOCK WALL DESIGN INTENT SHOWN IN PERSPECTIVE BELOW.
2. BLOCK FACES TO BE PLACED AT VARIED DEPTHS.



12 STONE SLAB RETAINING WALL - PERSPECTIVE
Scale: 1/2"=1'-0"

C:\Users\JKonicek\Documents\SHA East Entry_786_JKonicek(Recovery).rvt

9/25/2013 8:34:23 AM

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

Trowbridge Wolf Micheals
Landscape Architects
1001 West Seneca Street, Suite 101
Ithaca, New York 14850
607.277.1400

KSS ARCHITECTS LLP
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

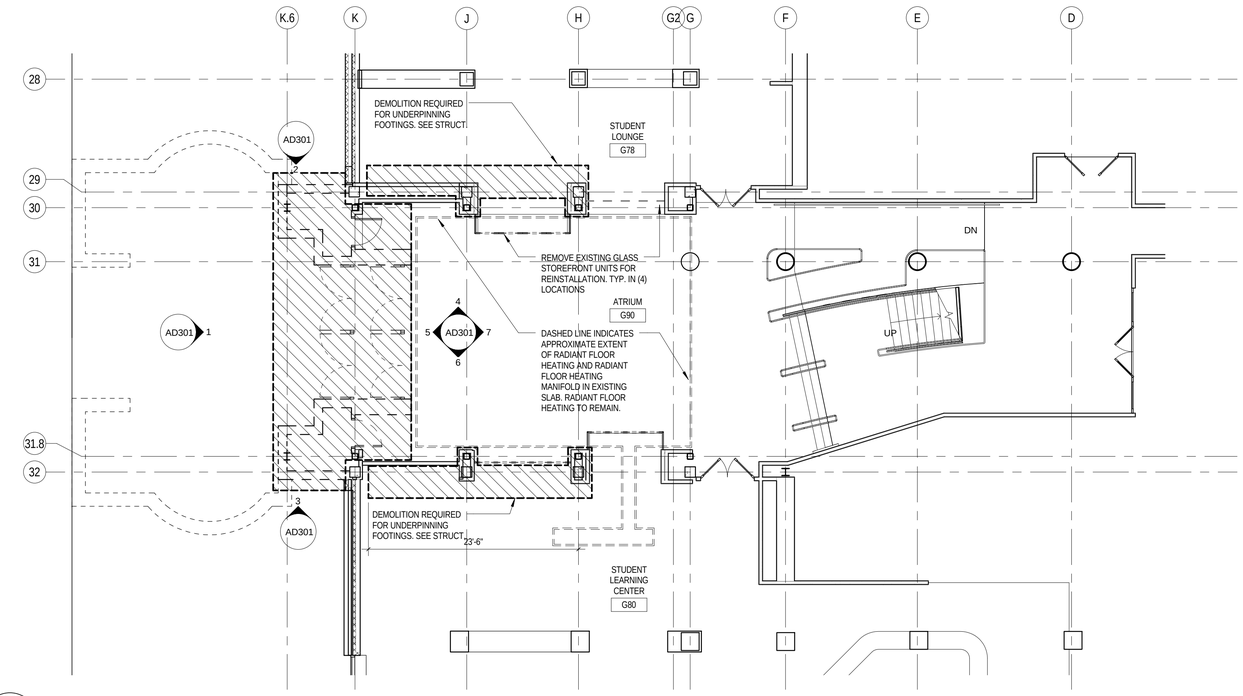
Cornell University

50% Construction Documents

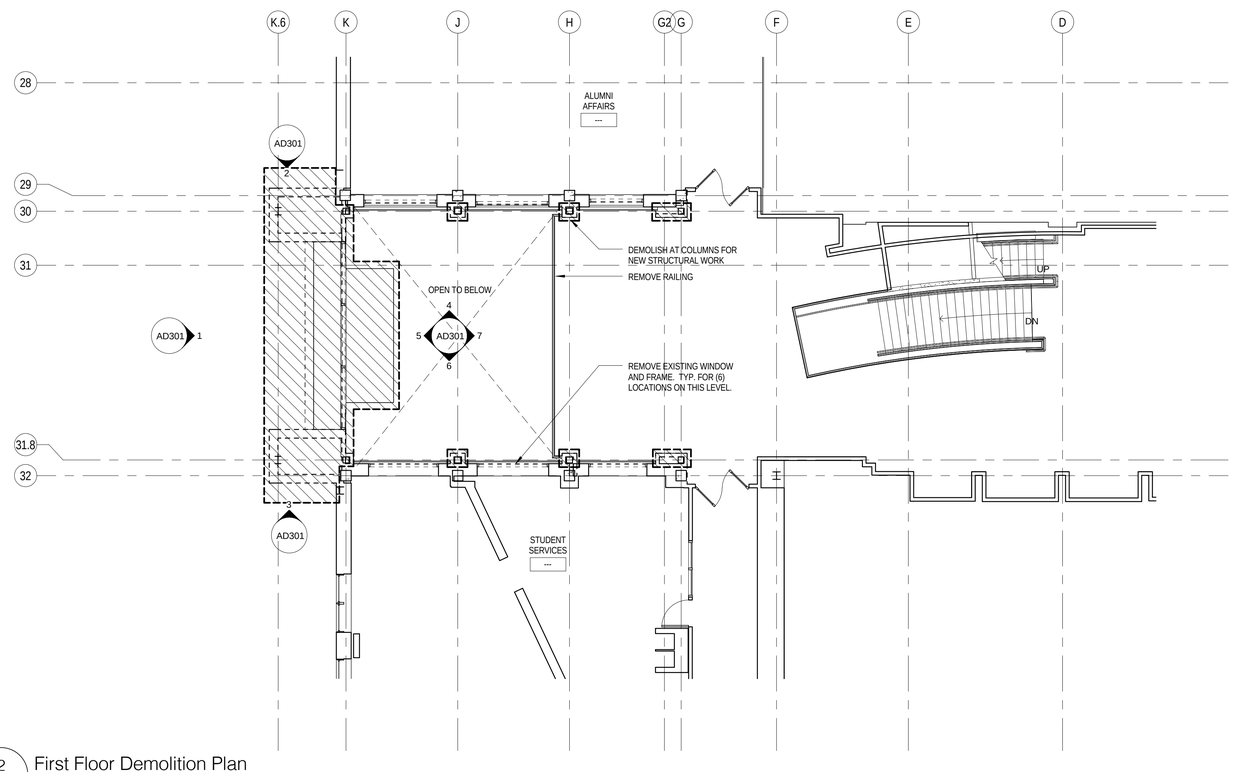
Project No.:	2012.21786
Issued:	10.23.2013
Scale:	AS NOTED

SITE DETAILS

L501



1 AD101 Ground Floor Demolition Plan
1/8" = 1'-0"



2 AD101 First Floor Demolition Plan
1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND COORDINATE ALL REMOVAL ACTIVITIES WITH NEW CONSTRUCTION. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO BEGINNING REMOVALS.

2. REFER TO ALL STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION DRAWINGS FOR SCOPE OF DEMOLITION FOR THOSE TRADES. CONTRACTOR. TO COORDINATE DEMOLITION BETWEEN TRADES.

3. PROTECT ALL CONSTRUCTION TO REMAIN FROM DAMAGE DURING REMOVAL OF ADJACENT CONSTRUCTION. REPAIR/REPLACE CONSTRUCTION TO REMAIN THAT WAS DAMAGED DURING DEMOLITION TO MATCH THE QUALITY OF THE NEW WORK.

4. THE CONTRACT DRAWINGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE DRAWINGS DUE TO CHANGES AFFECTING EXISTING ELECTRICAL, OR OTHER, SYSTEMS. SUCH INCIDENTAL WORK IS ALSO A PART OF THE CONTRACT. CONTRACTOR SHALL INSPECT THOSE AREAS AND ASCERTAIN WORK NEEDED AND DO THAT WORK IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AND AT NO ADDITIONAL COST TO THE OWNER.

5. DO NOT DRILL OR CUT EXISTING FLOOR JOISTS, BEAMS, COLUMNS OR OTHER STRUCTURAL ELEMENTS UNLESS SPECIFICALLY NOTED. MAKE OPENINGS OF PROPER SIZE FOR CONDUITS AND PIPING AND OTHER ITEMS PASSING THROUGH OPENINGS.

6. REPAIR, PATCH AND FINISH, OR REFINISH AS APPLICABLE, TO MATCH ADJACENT EXISTING FINISHES DAMAGED OR NEWLY EXPOSED DURING THE PERFORMANCE OF THE WORK OF THIS CONTRACT.

7. WHERE CONDUITS, PIPING AND SIMILAR ITEMS ARE SHOWN TO BE INSTALLED IN EXISTING WALLS, NEATLY CHASE THE WALLS TO MAKE THE INSTALLATION NOT DISCERNABLE IN THE FINISHED WORK. REFERENCE MEP DRAWINGS FOR SYSTEMS ROUTING.

8. WHERE NEW CEILING IS NOT SCHEDULED, INSTALL CONDUITS AND PIPING IN EVERY CASE ABOVE THE CEILING. REMOVE EXISTING CEILING AS NECESSARY. AFTER INSTALLATION OF CONCEALED WORK, REINSTALL REMOVED CEILING AND PATCH AND REFINISH TO MATCH ADJACENT UNREMOVED CEILING.

9. WORK SHOWN IS NEW UNLESS SPECIFICALLY NOTED OR OTHERWISE INDICATED AS EXISTING.

10. USE SAW CUTS TO REMOVE MASONRY WHERE REMAINING MASONRY IS TO BE EXPOSED.

11. REMOVE VIDEO SURVEILLANCE CAMERAS ON COLUMNS AND RETURN TO OWNER.

LEGEND:

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE REMOVED

ROOM NAME / E100 — EXISTING ROOM

AREA OF WORK

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

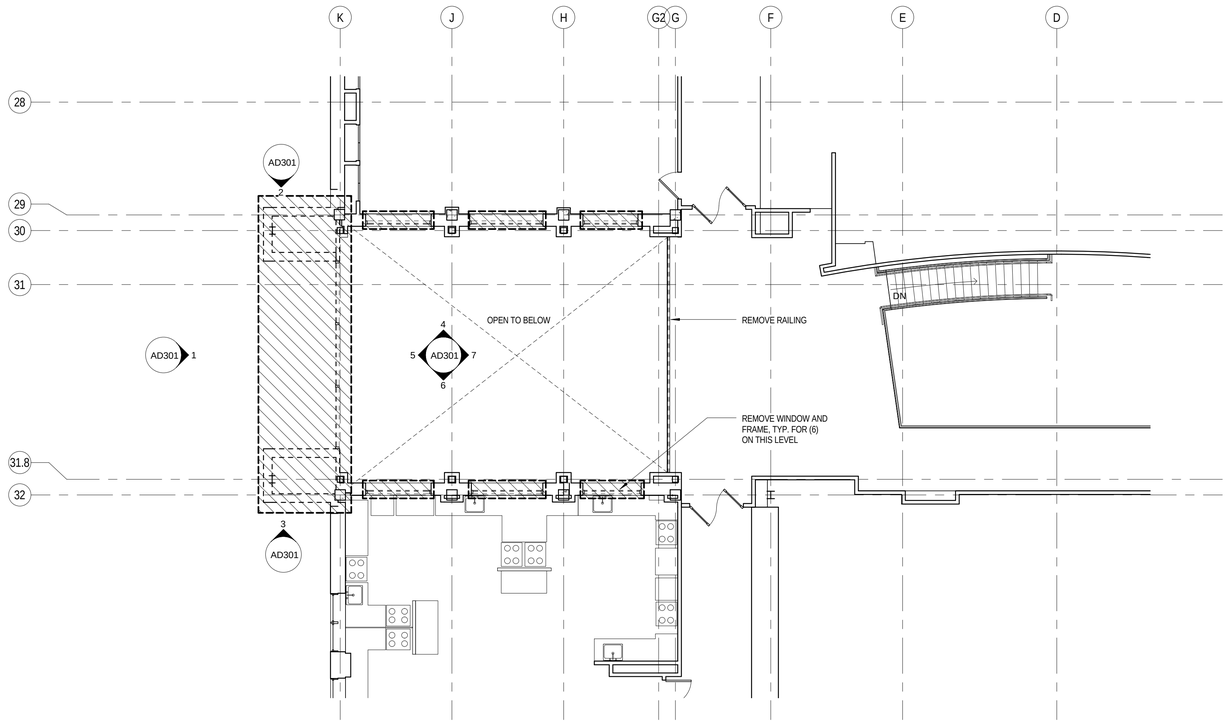
Cornell University

50% CONSTRUCTION DOCUMENTS

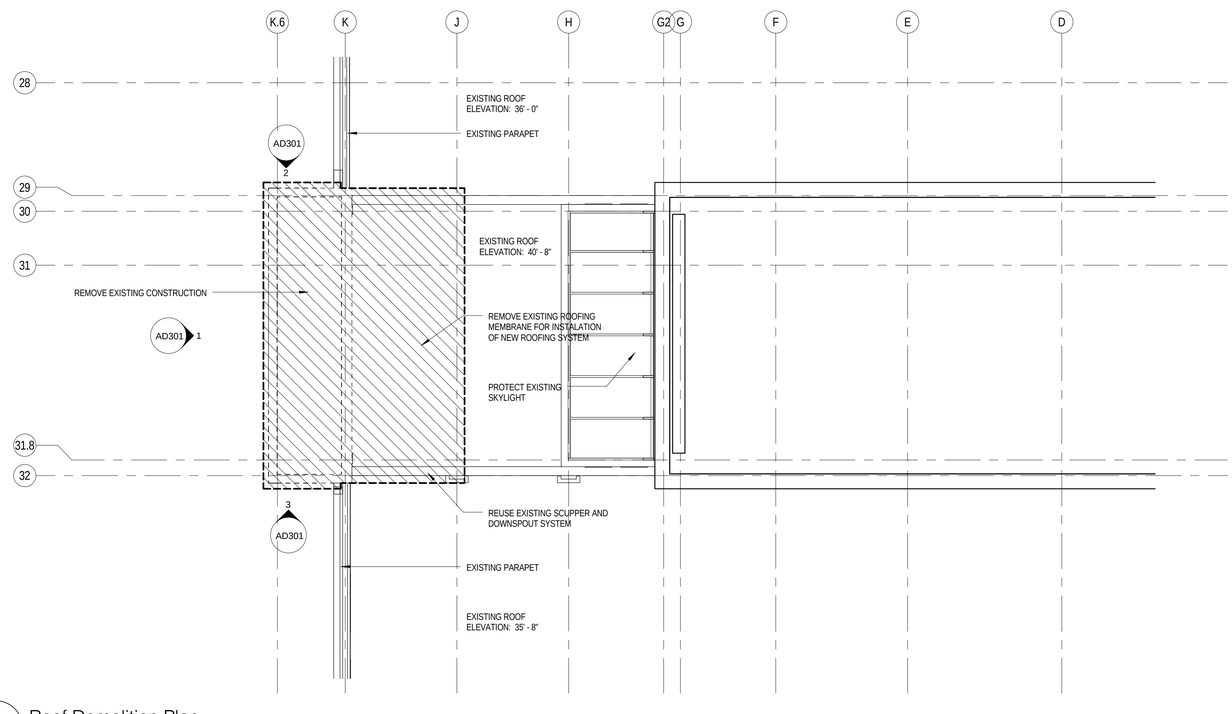
Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1/8" = 1'-0"

DEMOLITION PLANS

AD101



1 AD102 Second Floor Demolition Plan
1/8" = 1'-0"



2 AD102 Roof Demolition Plan
1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND COORDINATE ALL REMOVAL ACTIVITIES WITH NEW CONSTRUCTION. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO BEGINNING REMOVALS.

2. REFER TO ALL STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION DRAWINGS FOR SCOPE OF DEMOLITION FOR THOSE TRADES. CONTRACTOR. TO COORDINATE DEMOLITION BETWEEN TRADES.

3. PROTECT ALL CONSTRUCTION TO REMAIN FROM DAMAGE DURING REMOVAL OF ADJACENT CONSTRUCTION. REPAIR/REPLACE CONSTRUCTION TO REMAIN THAT WAS DAMAGED DURING DEMOLITION TO MATCH THE QUALITY OF THE NEW WORK.

4. THE CONTRACT DRAWINGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE DRAWINGS DUE TO CHANGES AFFECTING EXISTING ELECTRICAL, OR OTHER, SYSTEMS. SUCH INCIDENTAL WORK IS ALSO A PART OF THE CONTRACT. CONTRACTOR SHALL INSPECT THOSE AREAS AND ASCERTAIN WORK NEEDED AND DO THAT WORK IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AND AT NO ADDITIONAL COST TO THE OWNER.

5. DO NOT DRILL OR CUT EXISTING FLOOR JOISTS, BEAMS, COLUMNS OR OTHER STRUCTURAL ELEMENTS UNLESS SPECIFICALLY NOTED. MAKE OPENINGS OF PROPER SIZE FOR CONDUITS AND PIPING AND OTHER ITEMS PASSING THROUGH OPENINGS.

6. REPAIR, PATCH AND FINISH, OR REFINISH AS APPLICABLE, TO MATCH ADJACENT EXISTING FINISHES DAMAGED OR NEWLY EXPOSED DURING THE PERFORMANCE OF THE WORK OF THIS CONTRACT.

7. WHERE CONDUITS, PIPING AND SIMILAR ITEMS ARE SHOWN TO BE INSTALLED IN EXISTING WALLS, NEATLY CHASE THE WALLS TO MAKE THE INSTALLATION NOT DISCERNABLE IN THE FINISHED WORK. REFERENCE MEP DRAWINGS FOR SYSTEMS ROUTING.

8. WHERE NEW CEILING IS NOT SCHEDULED, INSTALL CONDUITS AND PIPING IN EVERY CASE ABOVE THE CEILING. REMOVE EXISTING CEILING AS NECESSARY. AFTER INSTALLATION OF CONCEALED WORK, REINSTALL REMOVED CEILING AND PATCH AND REFINISH TO MATCH ADJACENT UNREMOVED CEILING.

9. WORK SHOWN IS NEW UNLESS SPECIFICALLY NOTED OR OTHERWISE INDICATED AS EXISTING.

10. USE SAW CUTS TO REMOVE MASONRY WHERE REMAINING MASONRY IS TO BE EXPOSED.

11. REMOVE VIDEO SURVEILLANCE CAMERAS ON COLUMNS AND RETURN TO OWNER.

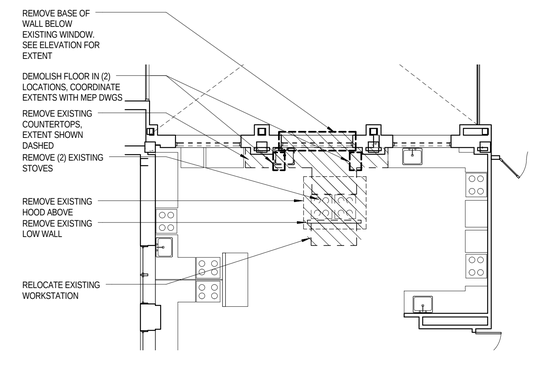
LEGEND:

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE REMOVED

ROOM NAME
E100
EXISTING ROOM

AREA OF WORK



3 AD102 Second Floor Demolition Plan - Add Alternate
1/8" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

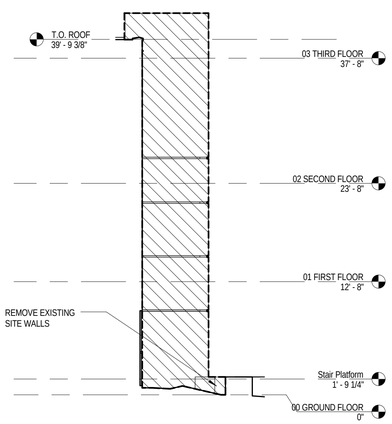
50% CONSTRUCTION DOCUMENTS

Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1/8" = 1'-0"

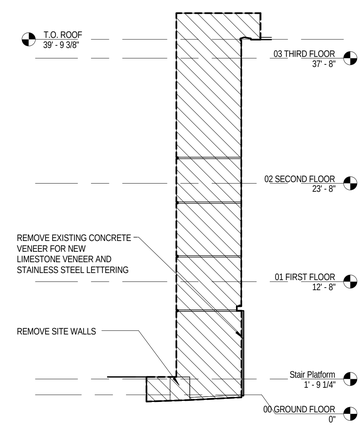
DEMOLITION PLANS

AD102

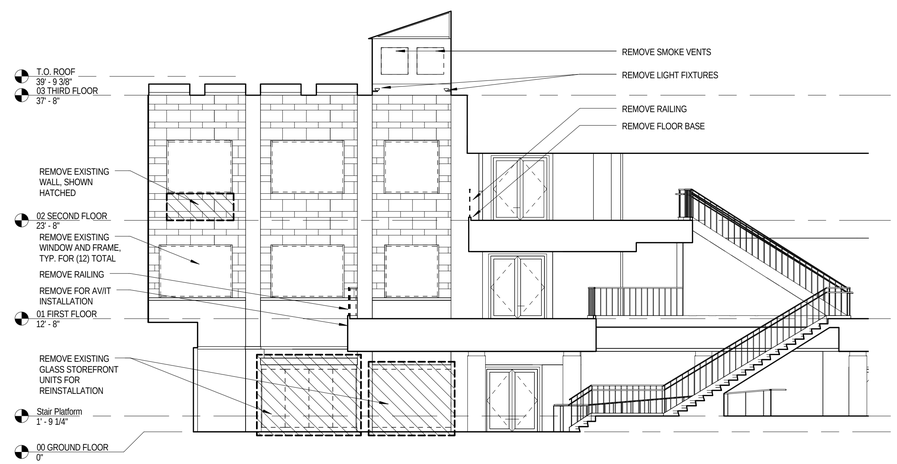
1 AD301 West Demolition Elevation
1/8" = 1'-0"



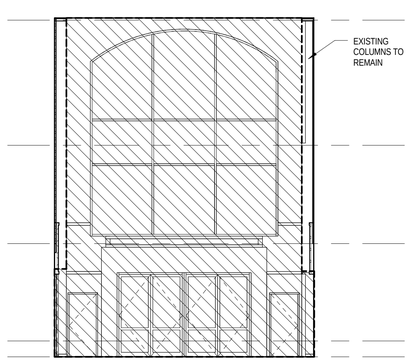
2 AD301 North Demolition Elevation
1/8" = 1'-0"



3 AD301 South Demolition Elevation
1/8" = 1'-0"

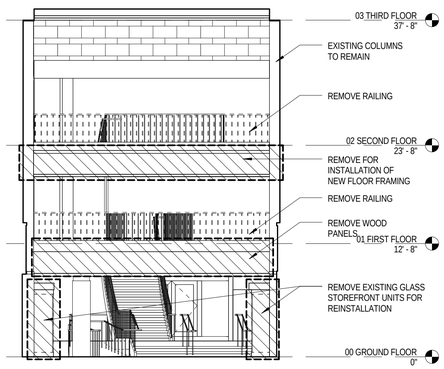


4 AD301 North Demolition Interior Elevation
1/8" = 1'-0"



5 AD301 West Demolition Interior Elevation
1/8" = 1'-0"

6 AD301 South Demolition Interior Elevation
1/8" = 1'-0"



7 AD301 East Demolition Interior Elevation
1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND COORDINATE ALL REMOVAL ACTIVITIES WITH NEW CONSTRUCTION. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO BEGINNING REMOVALS.

2. REFER TO ALL STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION DRAWINGS FOR SCOPE OF DEMOLITION FOR THOSE TRADES. CONTRACTOR. TO COORDINATE DEMOLITION BETWEEN TRADES.

3. PROTECT ALL CONSTRUCTION TO REMAIN FROM DAMAGE DURING REMOVAL OF ADJACENT CONSTRUCTION. REPAIR/REPLACE CONSTRUCTION TO REMAIN THAT WAS DAMAGED DURING DEMOLITION TO MATCH THE QUALITY OF THE NEW WORK.

4. THE CONTRACT DRAWINGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE DRAWINGS DUE TO CHANGES AFFECTING EXISTING ELECTRICAL, OR OTHER, SYSTEMS. SUCH INCIDENTAL WORK IS ALSO A PART OF THE CONTRACT. CONTRACTOR SHALL INSPECT THOSE AREAS AND ASCERTAIN WORK NEEDED AND DO THAT WORK IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AND AT NO ADDITIONAL COST TO THE OWNER.

5. DO NOT DRILL OR CUT EXISTING FLOOR JOISTS, BEAMS, COLUMNS OR OTHER STRUCTURAL ELEMENTS UNLESS SPECIFICALLY NOTED. MAKE OPENINGS OF PROPER SIZE FOR CONDUITS AND PIPING AND OTHER ITEMS PASSING THROUGH OPENINGS.

6. REPAIR, PATCH AND FINISH, OR REFINISH AS APPLICABLE, TO MATCH ADJACENT EXISTING FINISHES DAMAGED OR NEWLY EXPOSED DURING THE PERFORMANCE OF THE WORK OF THIS CONTRACT.

7. WHERE CONDUITS, PIPING AND SIMILAR ITEMS ARE SHOWN TO BE INSTALLED IN EXISTING WALLS, NEATLY CHASE THE WALLS TO MAKE THE INSTALLATION NOT DISCERNABLE IN THE FINISHED WORK. REFERENCE MEP DRAWINGS FOR SYSTEMS ROUTING.

8. WHERE NEW CEILING IS NOT SCHEDULED, INSTALL CONDUITS AND PIPING IN EVERY CASE ABOVE THE CEILING. REMOVE EXISTING CEILING AS NECESSARY. AFTER INSTALLATION OF CONCEALED WORK, REINSTALL REMOVED CEILING AND PATCH AND REFINISH TO MATCH ADJACENT UNREMOVED CEILING.

9. WORK SHOWN IS NEW UNLESS SPECIFICALLY NOTED OR OTHERWISE INDICATED AS EXISTING.

10. USE SAW CUTS TO REMOVE MASONRY WHERE REMAINING MASONRY IS TO BE EXPOSED.

11. REMOVE VIDEO SURVEILLANCE CAMERAS ON COLUMNS AND RETURN TO OWNER.

LEGEND:

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE REMOVED

ROOM NAME / E100 — EXISTING ROOM

AREA OF WORK

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

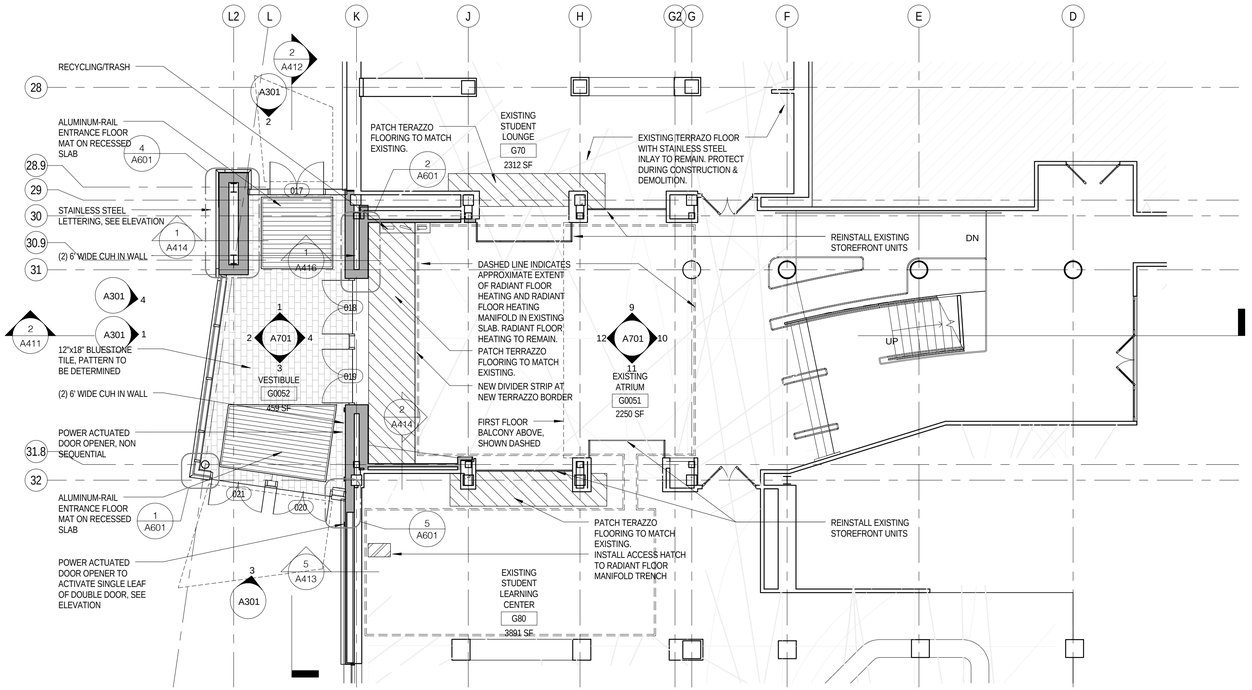
Cornell University

50% CONSTRUCTION DOCUMENTS

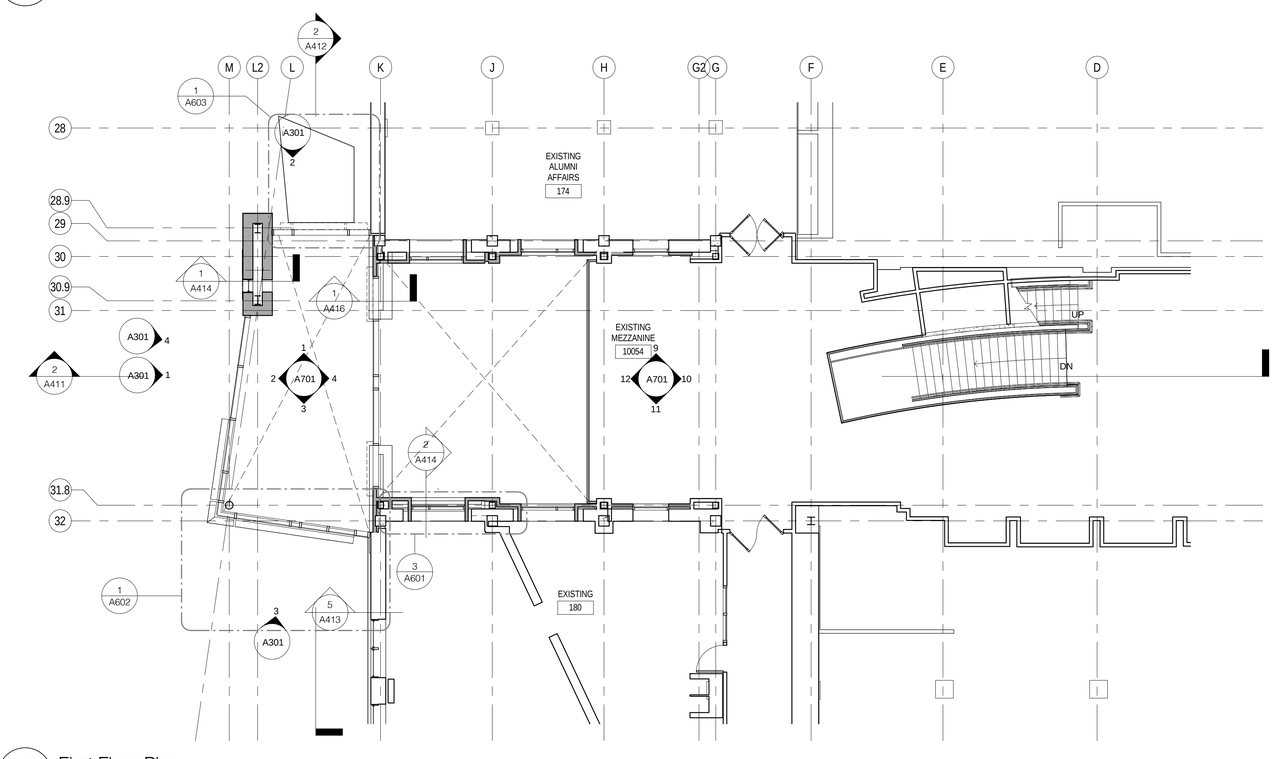
Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1/8" = 1'-0"

DEMOLITION ELEVATIONS

AD301



1 / A101 Ground Floor Plan
1/8" = 1'-0"



2 / A101 First Floor Plan
1/8" = 1'-0"

PLAN LEGEND

EXISTING CONSTRUCTION TO REMAIN

NEW CONSTRUCTION

GENERAL NOTES:
1. ALL PARTITIONS TO BE TYPE P1 UNLESS OTHERWISE NOTED.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

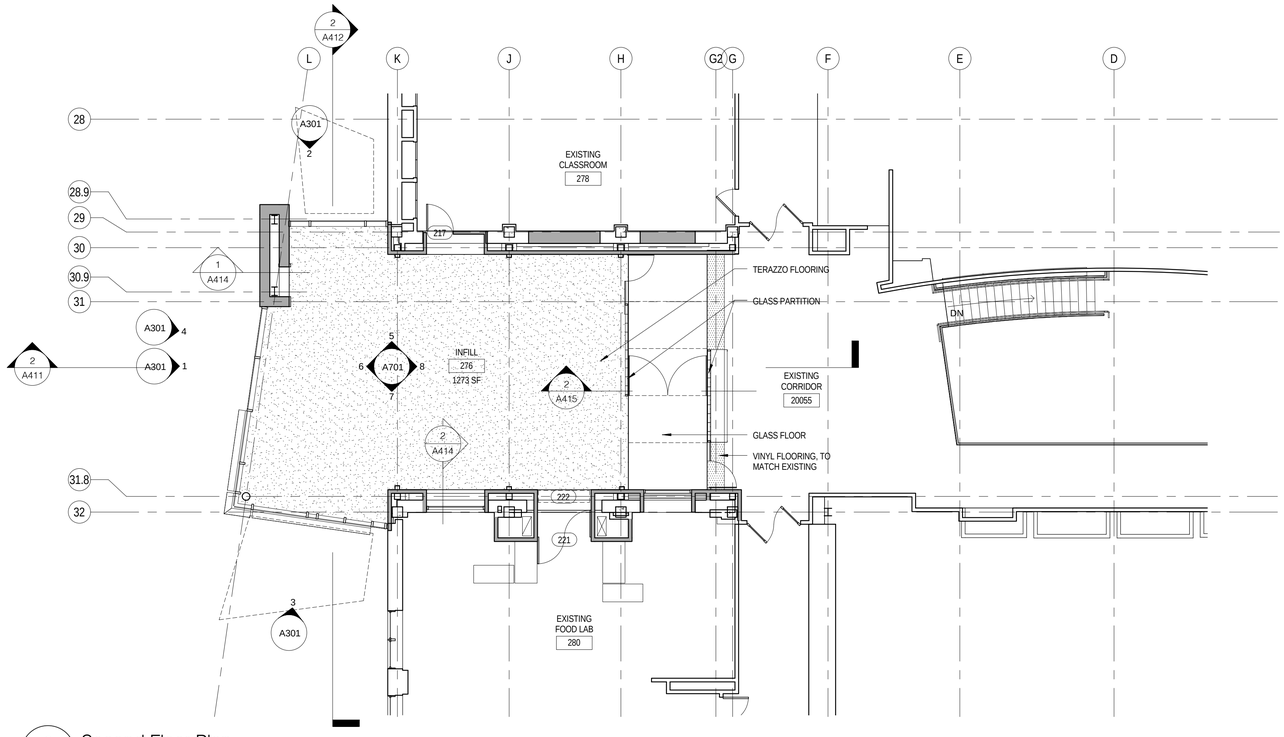
Cornell University

50% CONSTRUCTION DOCUMENTS

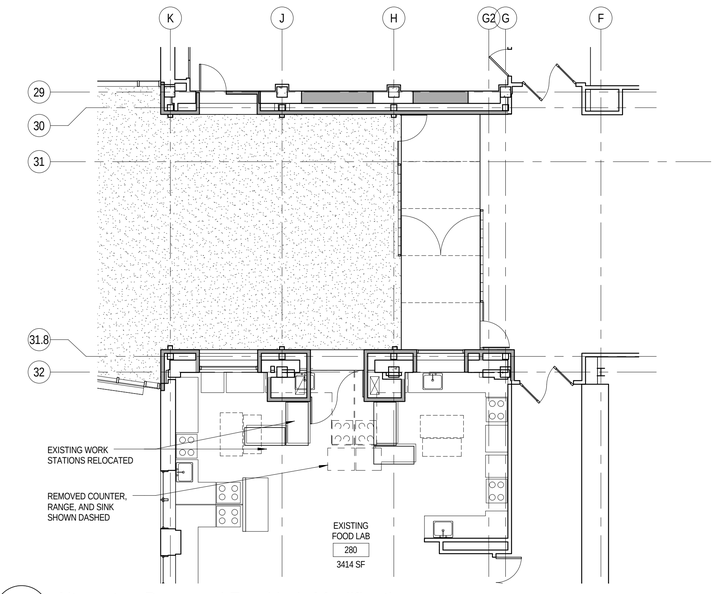
Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1/8" = 1'-0"

FLOOR PLANS

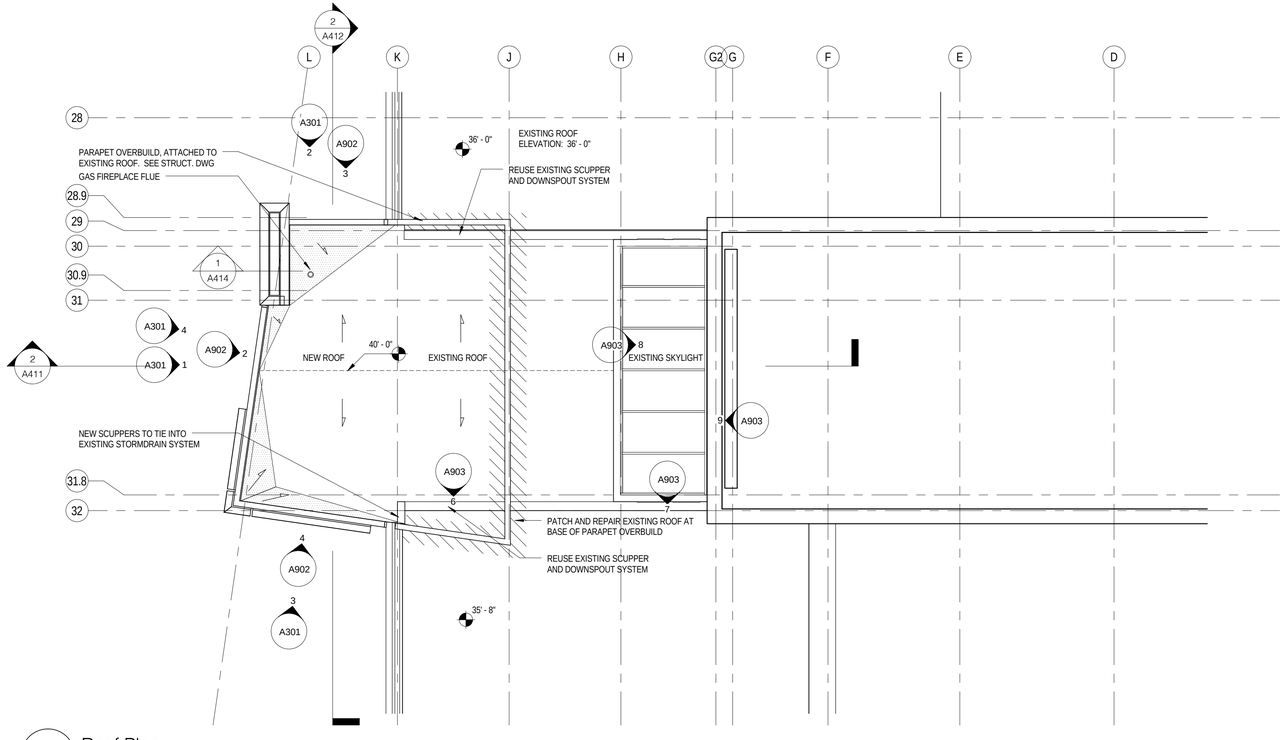
A101



2 A102 Second Floor Plan
1/8" = 1'-0"



3 A102 Alternate - Proposed Food Lab Modifications
1/8" = 1'-0"



1 A102 Roof Plan
1/8" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

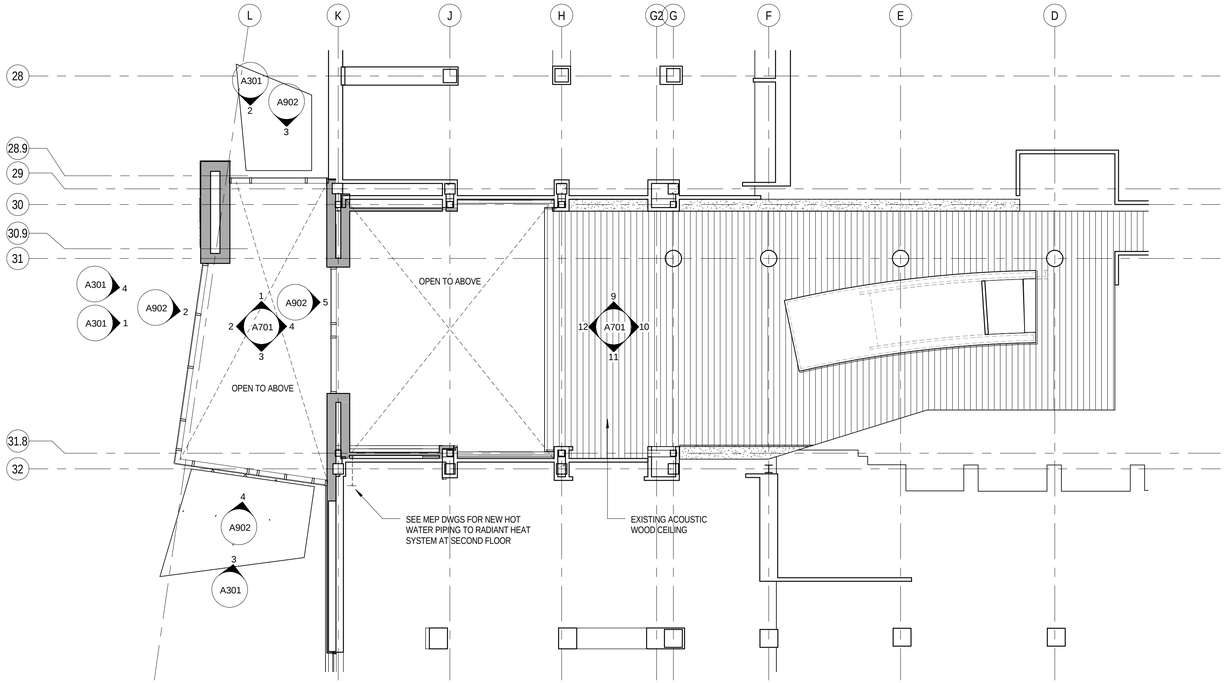
Cornell University

50% CONSTRUCTION DOCUMENTS

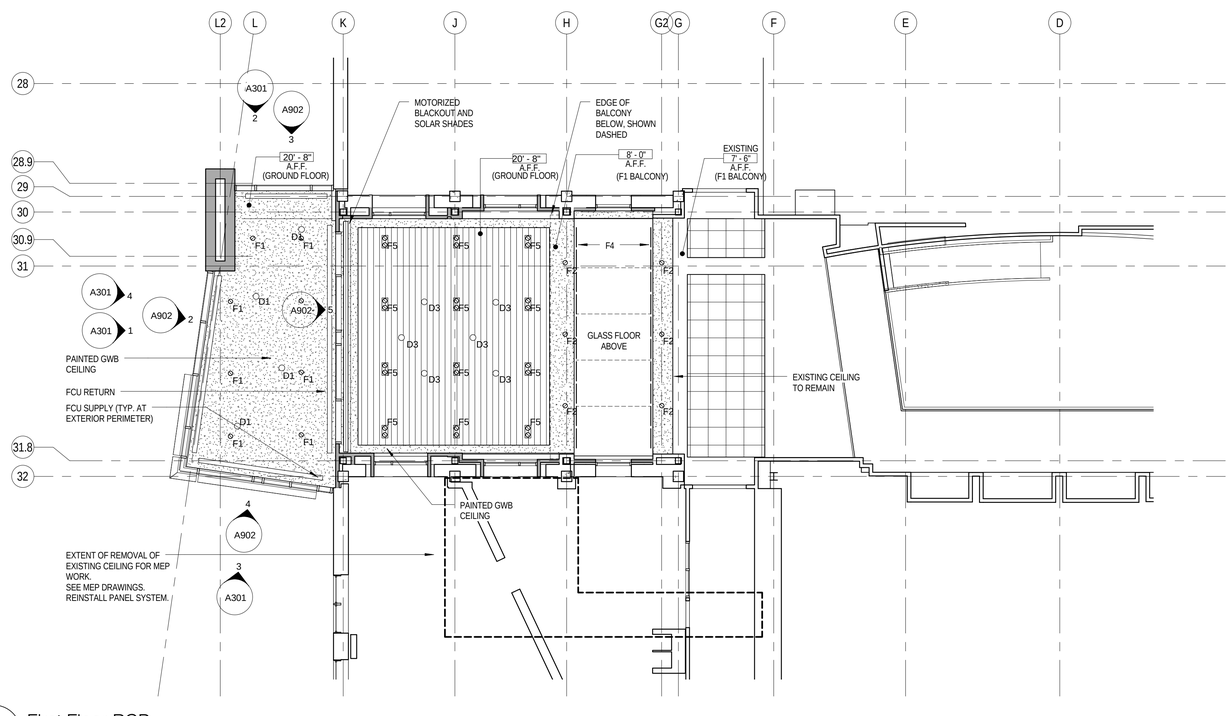
Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1/8" = 1'-0"

FLOOR PLANS

A102



2 / A201 Ground Floor RCP
1/8" = 1'-0"



1 / A201 First Floor RCP
1/8" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

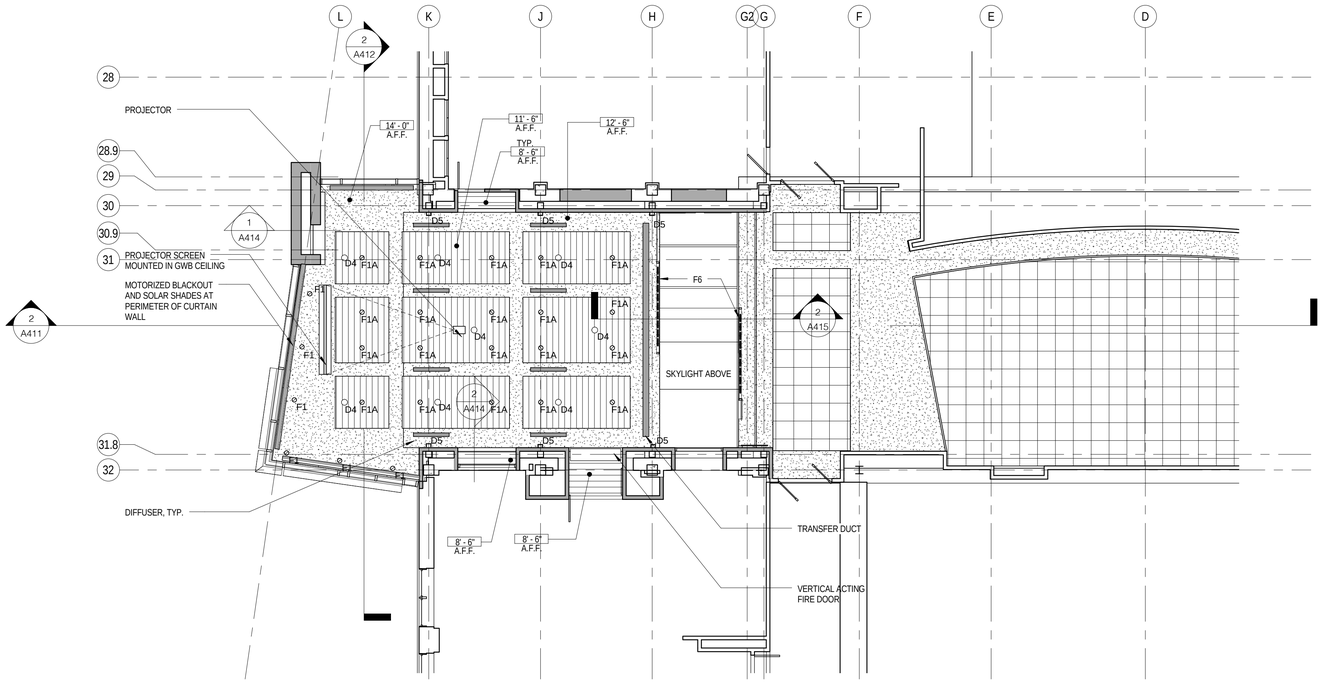
Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1/8" = 1'-0"

REFLECTED CEILING PLANS

A201



2 A202 Second Floor RCP
1/8" = 1'-0"

CEILING PLAN LEGEND

2'-0" x 2'-0" SUSPENDED ACOUSTIC PANEL CEILING

GWB CEILING

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

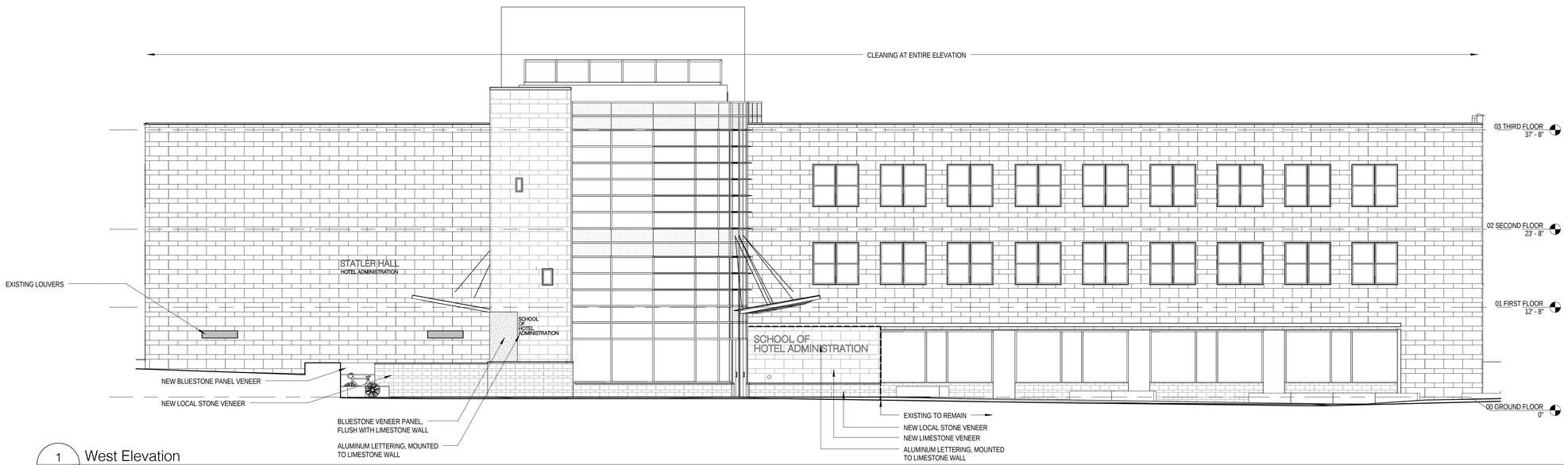
Cornell University

50% CONSTRUCTION DOCUMENTS

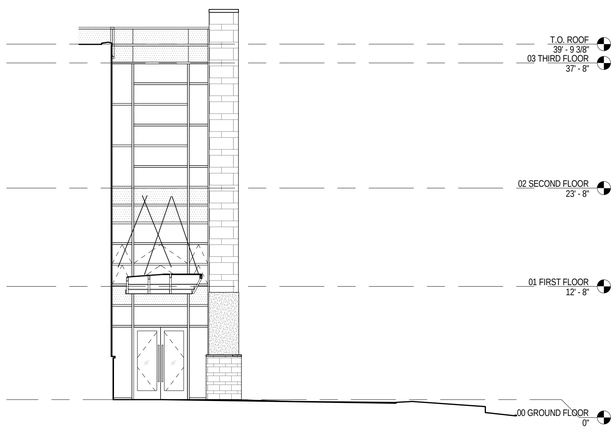
Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1/8" = 1'-0"

REFLECTED CEILING PLANS

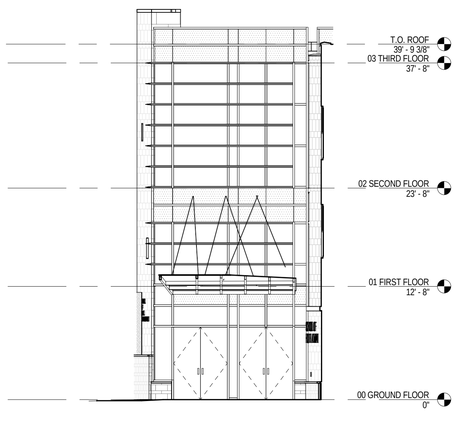
A202



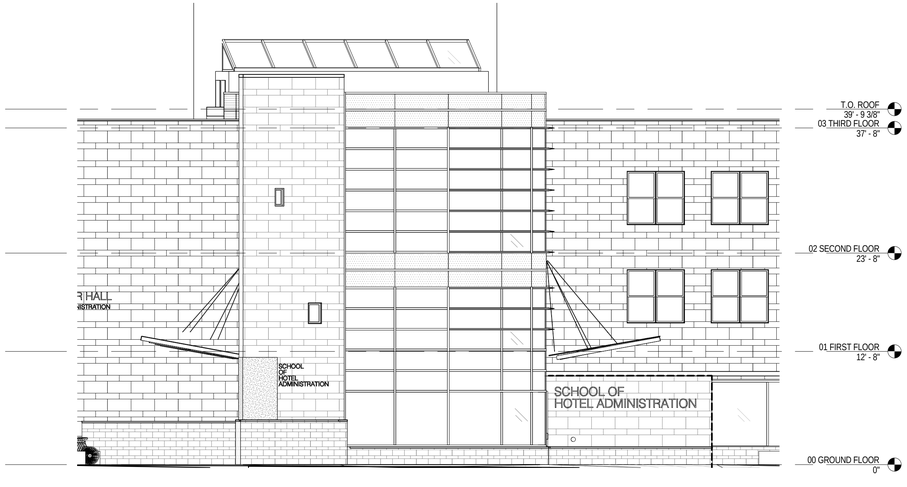
1 / A301 West Elevation
1/8" = 1'-0"



2 / A301 North Elevation.
1/8" = 1'-0"



3 / A301 South Elevation
1/8" = 1'-0"



4 / A301 West Elevation 2
1/8" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1/8" = 1'-0"

EXTERIOR ELEVATIONS

A301

M
L2
K
J
G2
G

LINE OF EXISTING BUILDING BEYOND

1
A420

PREFORMED ALUMINUM COPING

HSS SUPPORT FOR PARAPET OVERBUILD. SEE STRUCT.

8" EPDM ROOFING MEMBRANE WITH TERMINATION BAR

SPRAY FIREPROOFING AT ALL NEW STRUCTURAL BEAMS

NEW EPDM. CONTINUOUS TO EXISTING ROOF. LAP UP AND OVER PARAPET, UNDER COPING

CONCRETE FILLED METAL DECKING

INSULATED METAL SPANDREL

T.O. ROOF
39' - 9 3/8"

E16x31

E16x31

E16x31

E16x31

E16x45

E16x89

INSTALL NEW SMOKE EXHAUST FANS

03 THIRD FLOOR
37' - 8"

MOTORIZED DUAL SHADES AT PERIMETER OF CURTAIN WALL

1'-4"

TRANSFER DUCT

PANEL SUSPENSION ROD, ATTACH THROUGH EXISTING GWB OR TO NEW FRAMING.

PROJECTION SCREEN

MAPLE SLAT CEILING SYSTEM WITH ACOUSTICAL PANEL BACKING

5'-2"

PAINTED GWB

PROJECTOR ON MECHANICAL LIFT MOUNTED TO STRUCTURE ABOVE

GLASS CEILING

LIMESTONE VENEER

LIGHT FIXTURE MOUNTED TO SUSPENDED STRUCTURE BETWEEM WOOD SLATS

INFILL
276

2
A415

GAS FIREPLACE

EXISTING FLOOR CONSTRUCTION

THIN SET TERRAZZO FLOORING

5" CONCRETE RADIANT HEAT SLAB.

7'-6"

2" RIGID INSULATION

ALUM. MULLION WITH SUNSHADE EXTENSION. SEE ELEVATION FOR LOCATIONS.

GLASS FLOOR

02 SECOND FLOOR
23' - 8"

INSULATED METAL SPANDREL

ACOUSTICAL BATT INSULATION

GWB CEILING

FCU SUPPLY DIFFUSER

PERFORATED WOOD PANEL W/ ACOUSTIC BACKING

MOTORIZED DUAL SHADES AT PERIMETER OF CURTAIN WALL

NEW SUPPLY GRILLES TO REPLACE EXISTING (OPPOSITE SIDE)

ALUMINUM STOREFRONT IN WOOD SURROUND

CFMF BOX BEAM CONTINUOUS AT CURTAIN WALL HEAD. ATTACH TO STRUCTURE ABOVE

ALUMINUM STOREFRONT IN WOOD SURROUND

STEEL TUBE WIND GIRT, SEE STRUCTURAL DWGS

FCU RETURN DIFFUSER

01 FIRST FLOOR
12' - 8"

MOTORIZED WINDOW BEYOND, SHOWN DASHED.

PAINTED GWB.

T.O. WALL
10' - 5"

INSTALL TELEVISION, CONNECT TO EXISTING POWER AND DATA.

ACOUSTICAL PLASTER PANEL, FASTENED TO EXISTING FRAMING

EXISTING GLASS DRAFT CURTAIN

POWER ACTUATED DOOR OPENER IN (1) LEAF. SEE PLAN FOR LOCATION.

VESTIBULE
G0052

WOOD PANELING

EXISTING ATRIUM
G0051

REINSTALL EXISTING STOREFRONT SYSTEM

BLUESTONE SILL

3 5/8" STONE VENEER

MINERAL WOOL INSULATION

LIMESTONE VENEER

VERTICAL SUPPLY DIFFUSER IN WALL BEYOND

12" x 18" x 1/2" BLUSTONE TILE FLOORING

THIN SET TERAZZO FLOOR. COLOR TO MATCH EXISTING, JOINTS TO ALIGN WITH EXISTING.

2" CONCRETE RADIANT HEAT SLAB

3 1/2" CONCRETE SLAB

STAINLESS STEEL FLASHING WEEP AT FIRST FULL COURSE ABOVE GRADE

2" RIGID INSULATION

NEW DIVIDER STRIP AT BORDER

00 GROUND FLOOR
0"

EXTENT OF EXISTING RADIANT HEAT SLAB

2
A411

Section 1
1/2" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

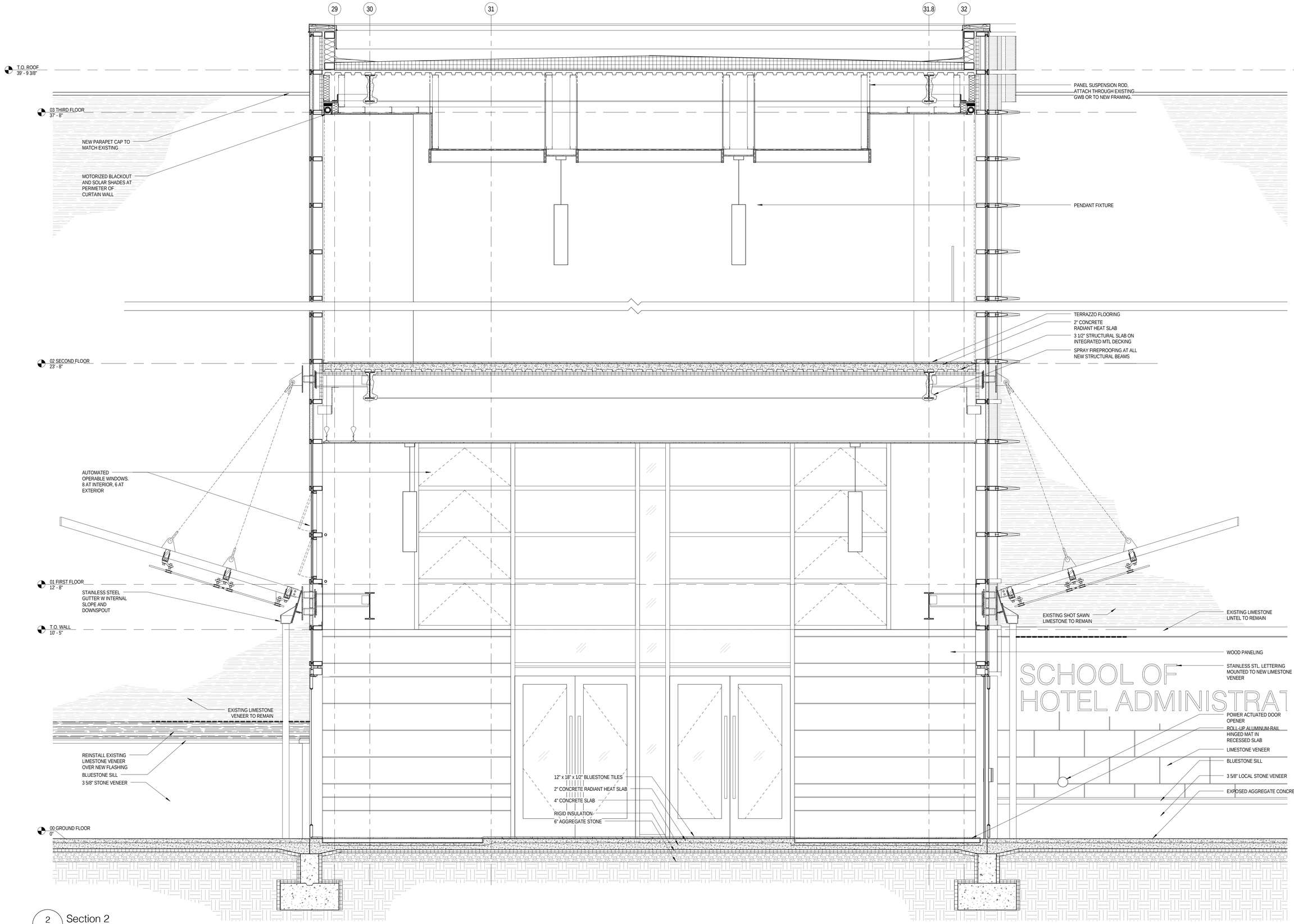
Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1/2" = 1'-0"

WALL SECTIONS

A411



2 / A412 Section 2
1/2" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

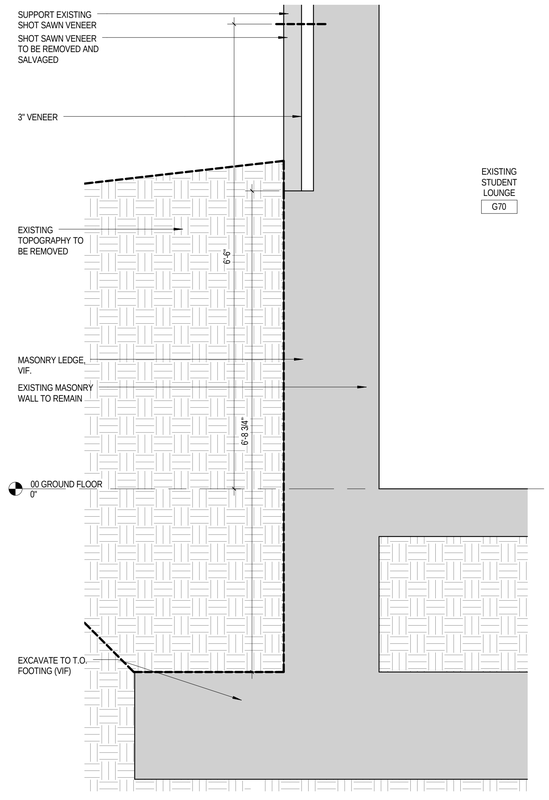
Cornell University

50% CONSTRUCTION DOCUMENTS

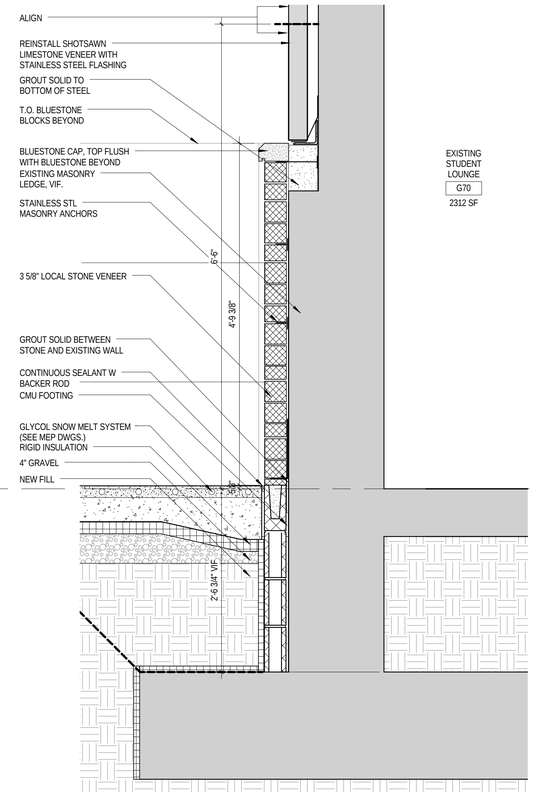
Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1/2" = 1'-0"

WALL SECTIONS

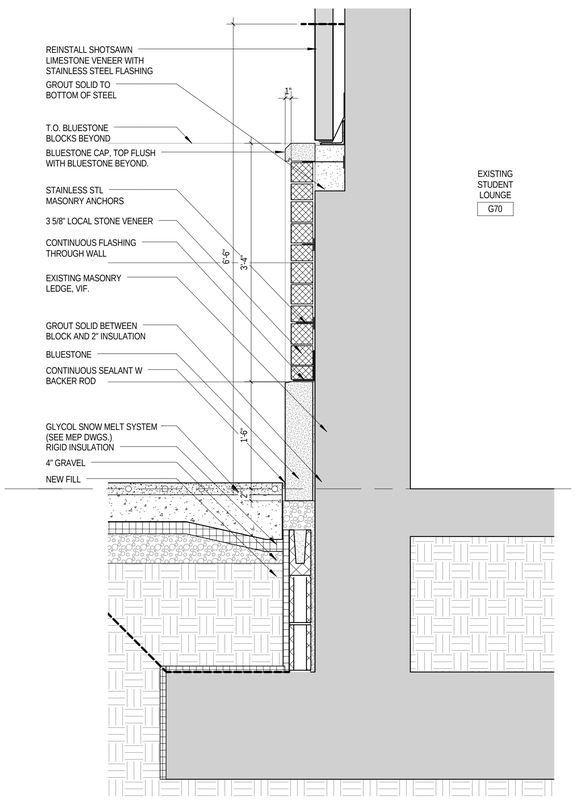
A412



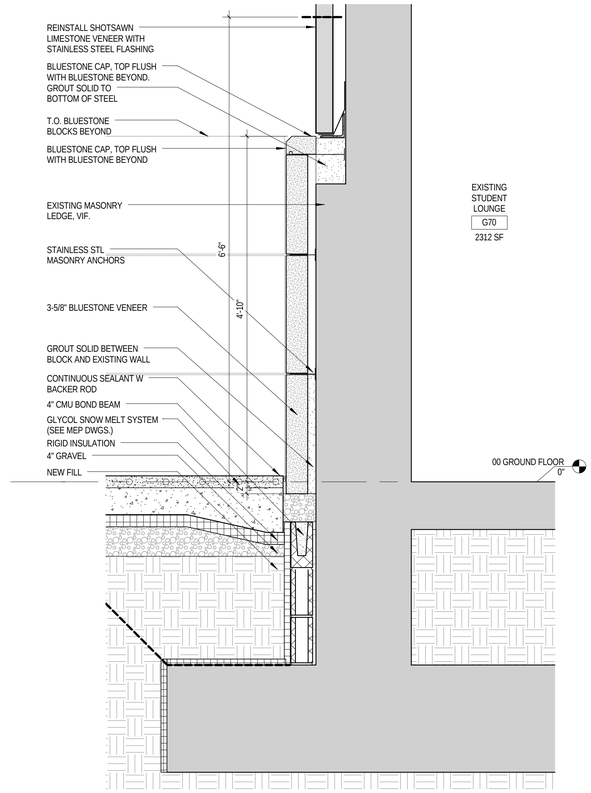
1 A413 Wall Section 3 - Existing
1" = 1'-0"



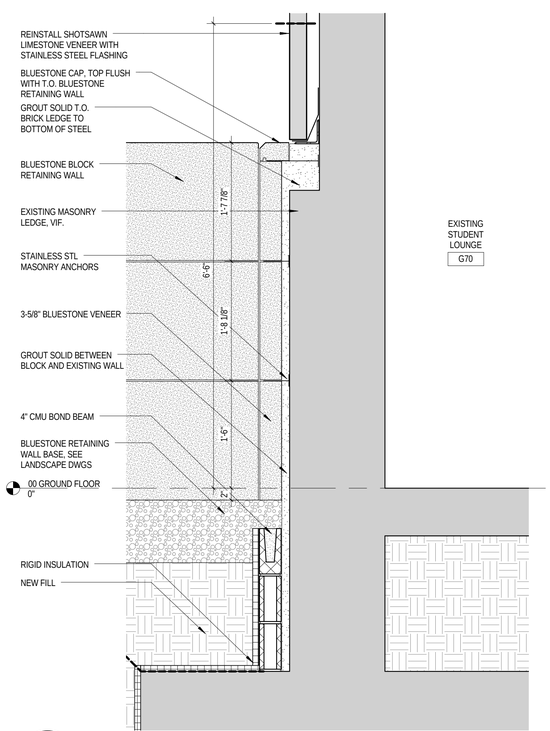
2 A413 Wall Section 4
1" = 1'-0"



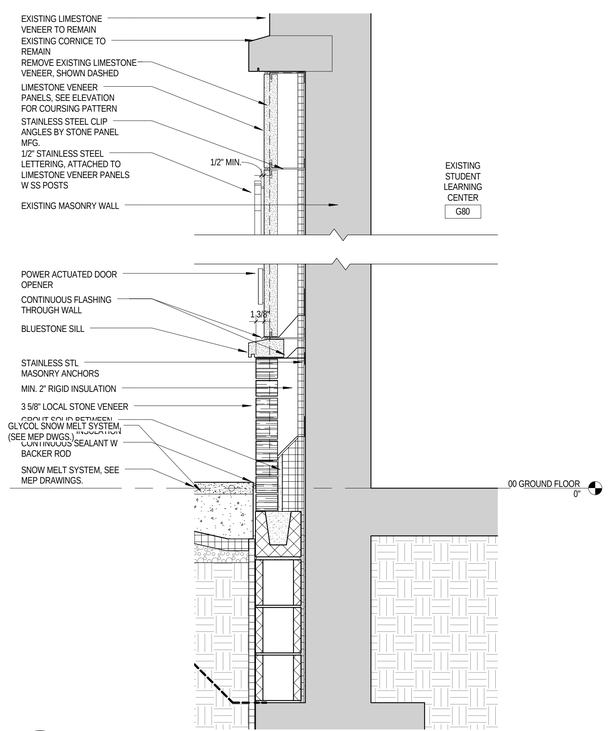
3 A413 Wall Section 5
1" = 1'-0"



4 A413 Wall Section 6
1" = 1'-0"



6 A413 Wall Section 7
1" = 1'-0"



5 A413 Wall Section 8
1" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

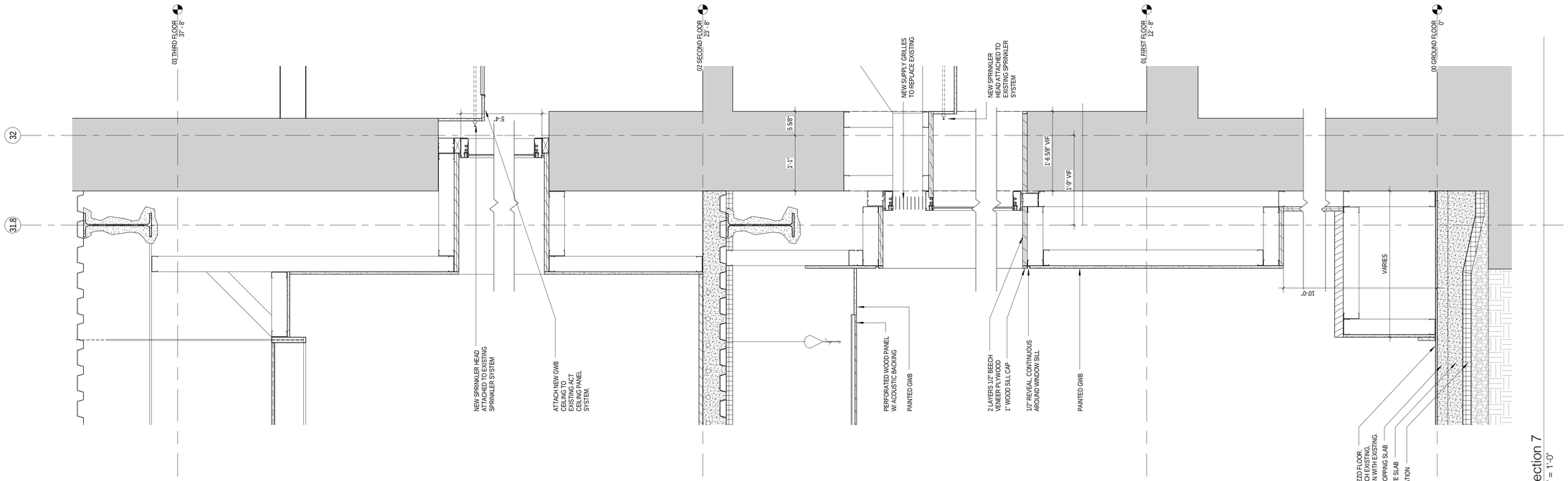
Cornell University

50% CONSTRUCTION DOCUMENTS

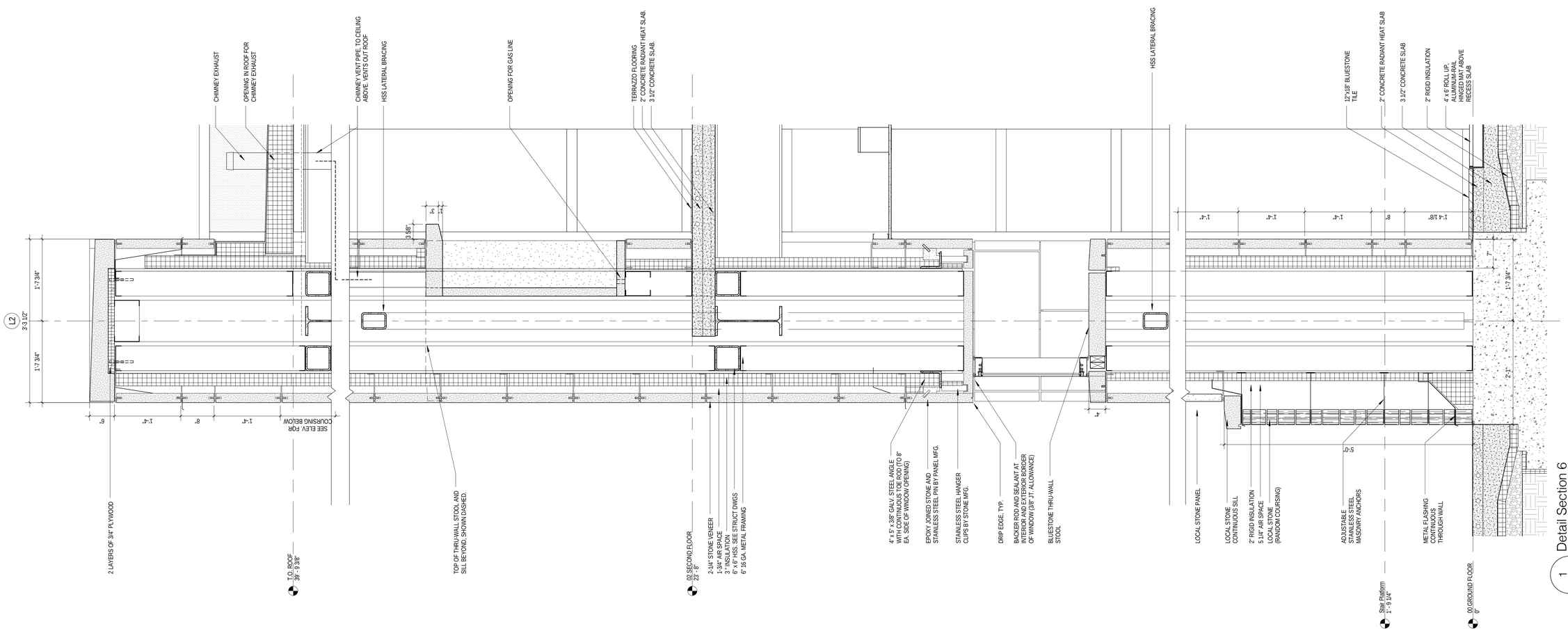
Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1" = 1'-0"

WALL SECTIONS

A413



2 A414 Section 7
1" = 1'-0"



1 A414 Detail Section 6
1" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

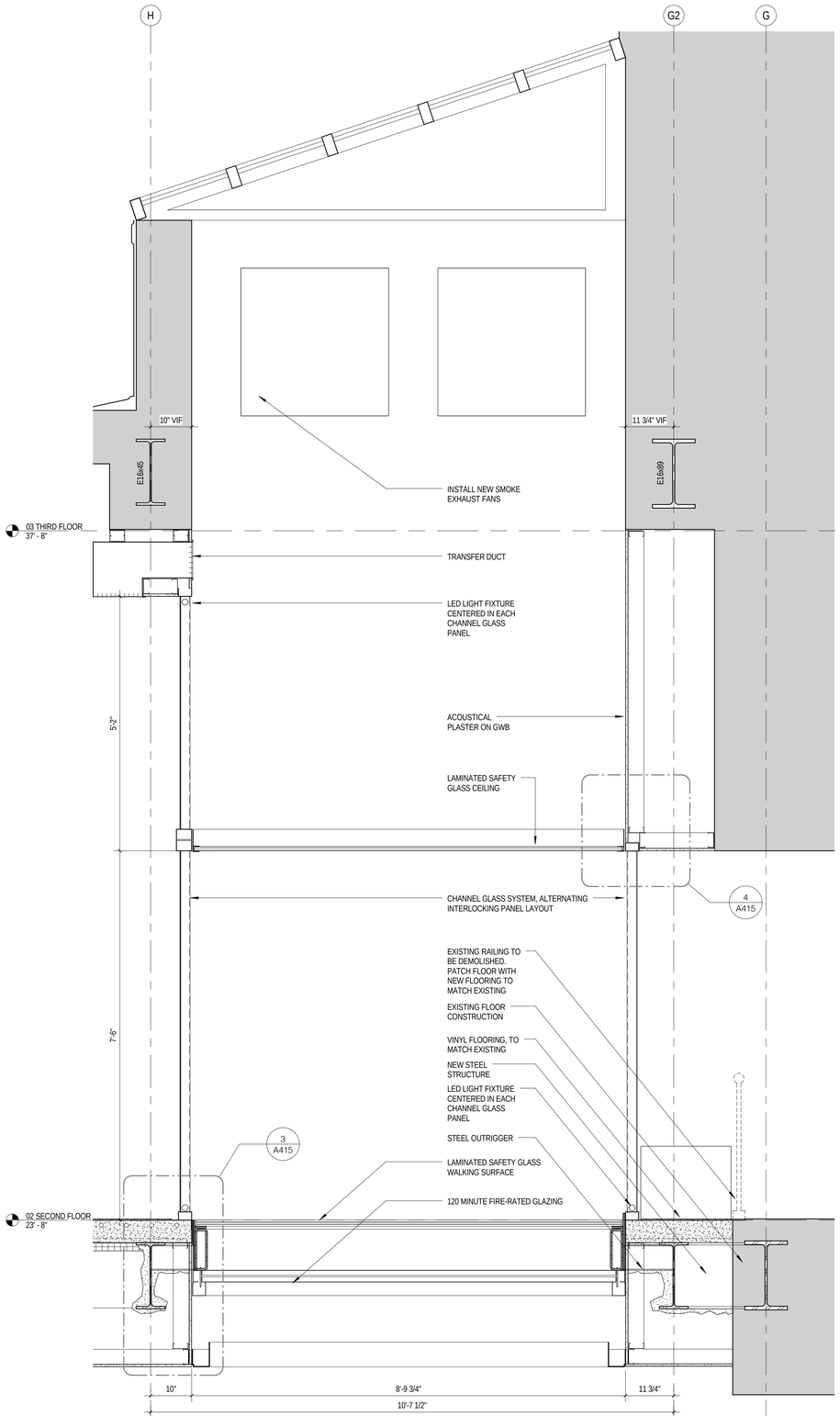
Cornell University

50% CONSTRUCTION DOCUMENTS

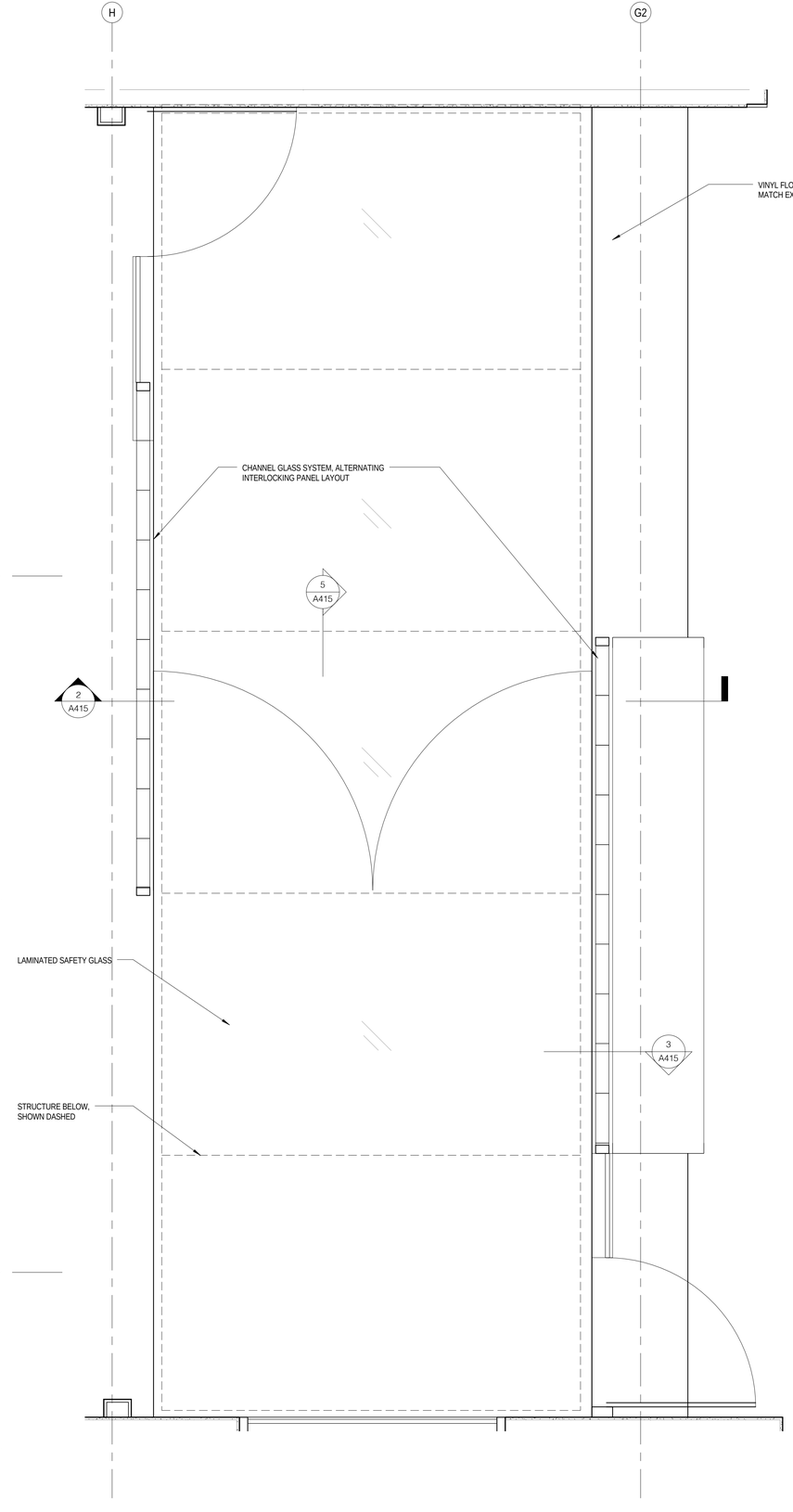
Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1" = 1'-0"

WALL SECTIONS

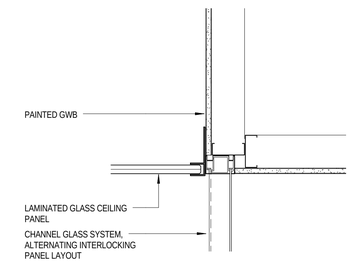
A414



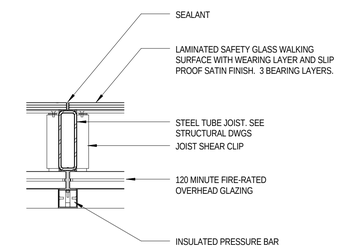
2 A415 Detail Section - Glass Bridge
3/4" = 1'-0"



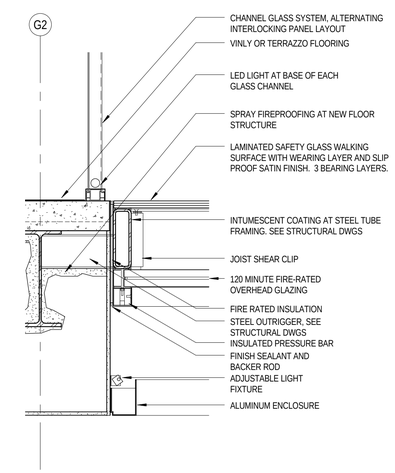
1 A415 Glass Floor Englarged Plan
3/4" = 1'-0"



4 A415 Detail 1
1 1/2" = 1'-0"



5 A415 Section 8
1" = 1'-0"



3 A415 Detail 2
1" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
KSS ARCHITECTS LLP
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

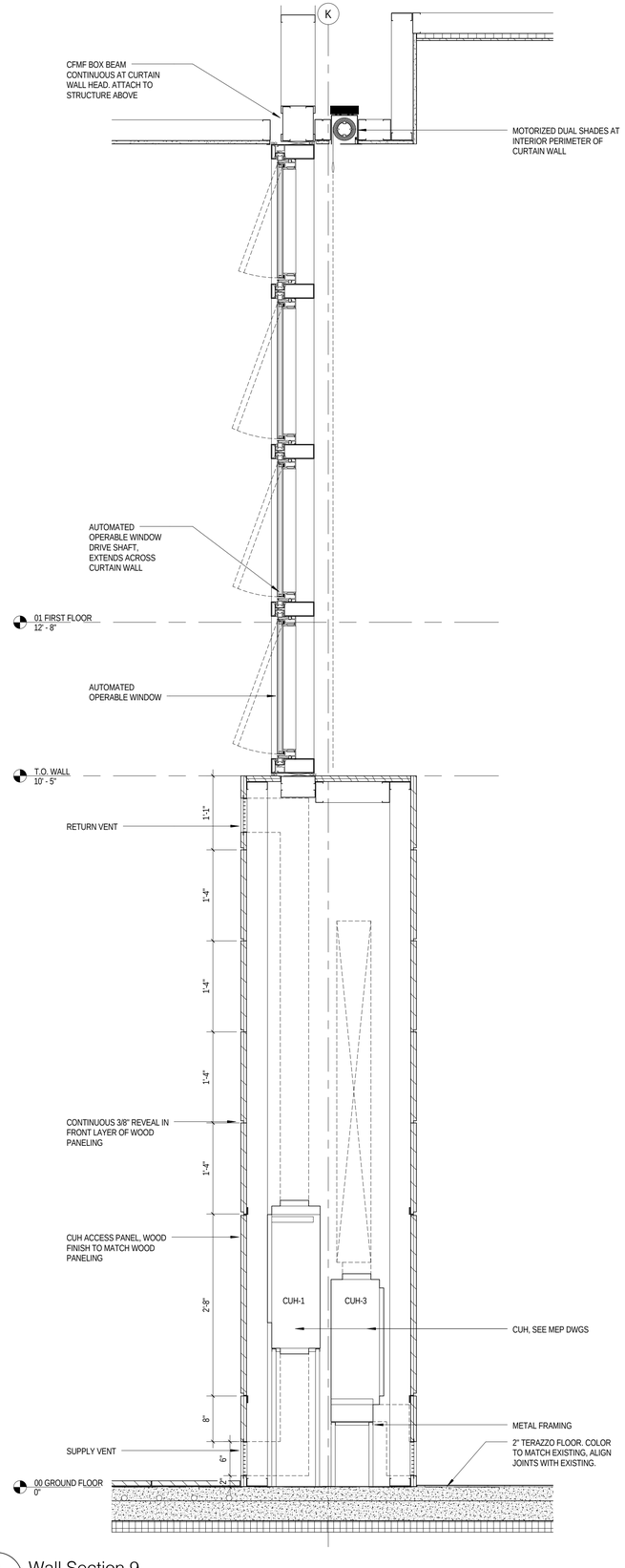
Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 2012.21786
Issued: 10/23/2013
Scale: As indicated

INFILL ENTRY DETAILS

A415



1 / A416 Wall Section 9
1" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

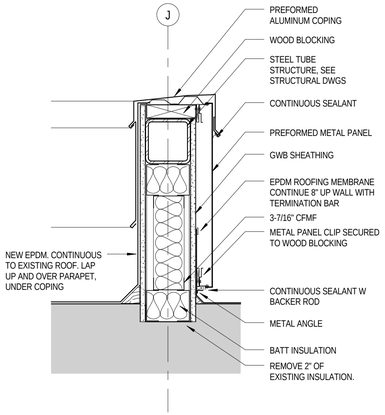
Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1" = 1'-0"

WALL SECTIONS

A416



1 / A420 Callout of Section 1

1 1/2" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill

Cornell University

Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

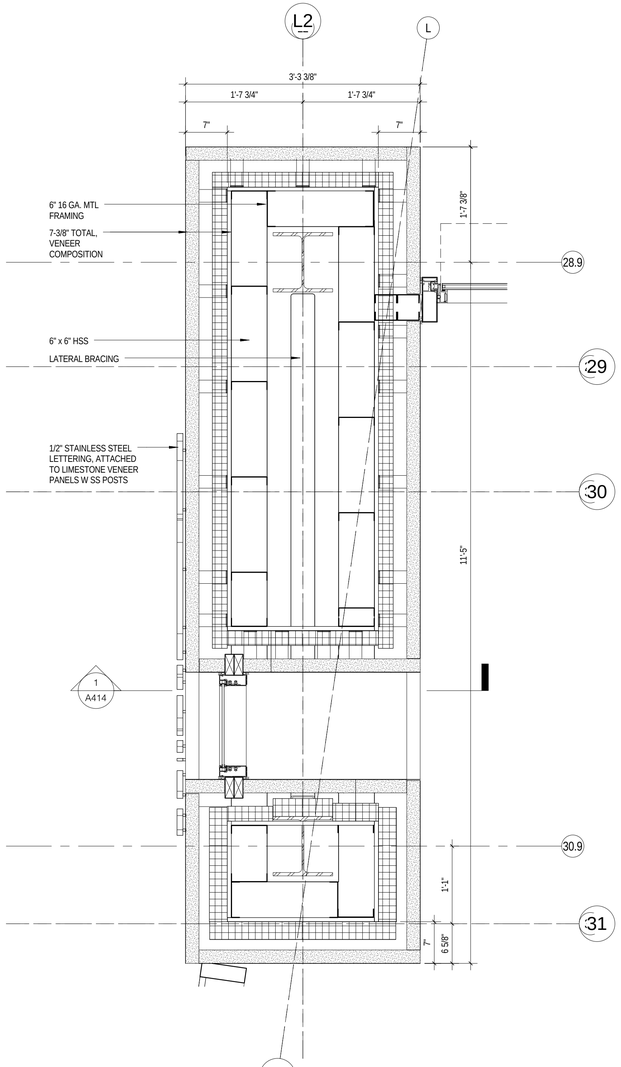
Cornell University

50% CONSTRUCTION DOCUMENTS

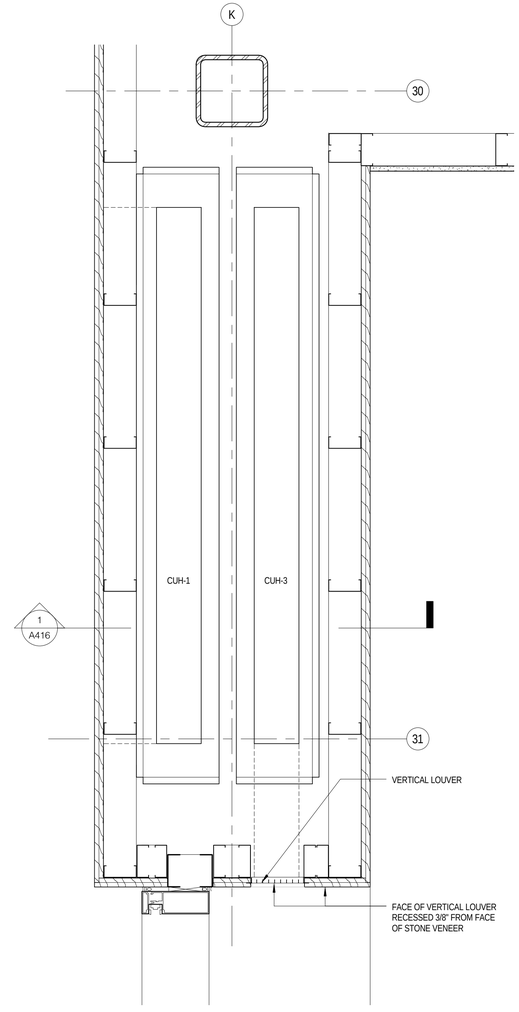
Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1 1/2" = 1'-0"

SECTION DETAILS

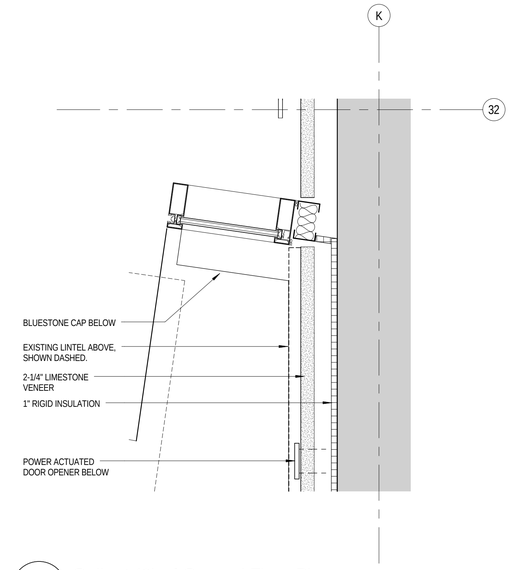
A420



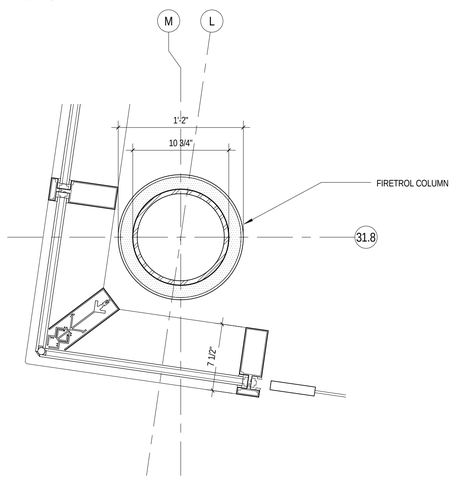
4 A601 Callout of Ground Floor Plan
1" = 1'-0"



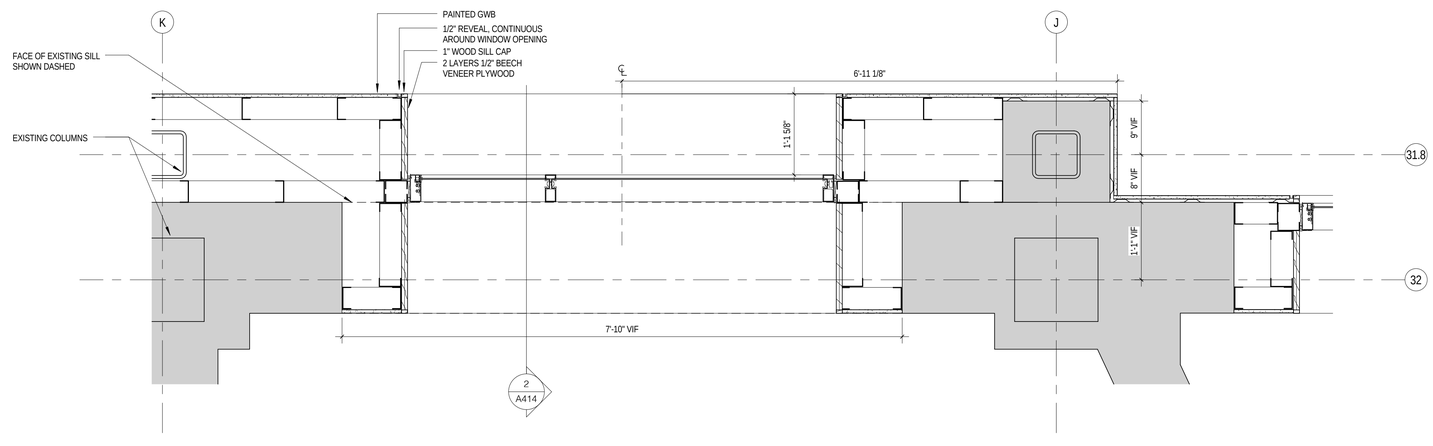
2 A601 Atrium Door and Wall Detail
1 1/2" = 1'-0"



5 A601 Callout (2) of Ground Floor Plan
1" = 1'-0"



1 A601 Vestibule Column Detail
1 1/2" = 1'-0"



3 A601 Atrium Window Detail
1" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

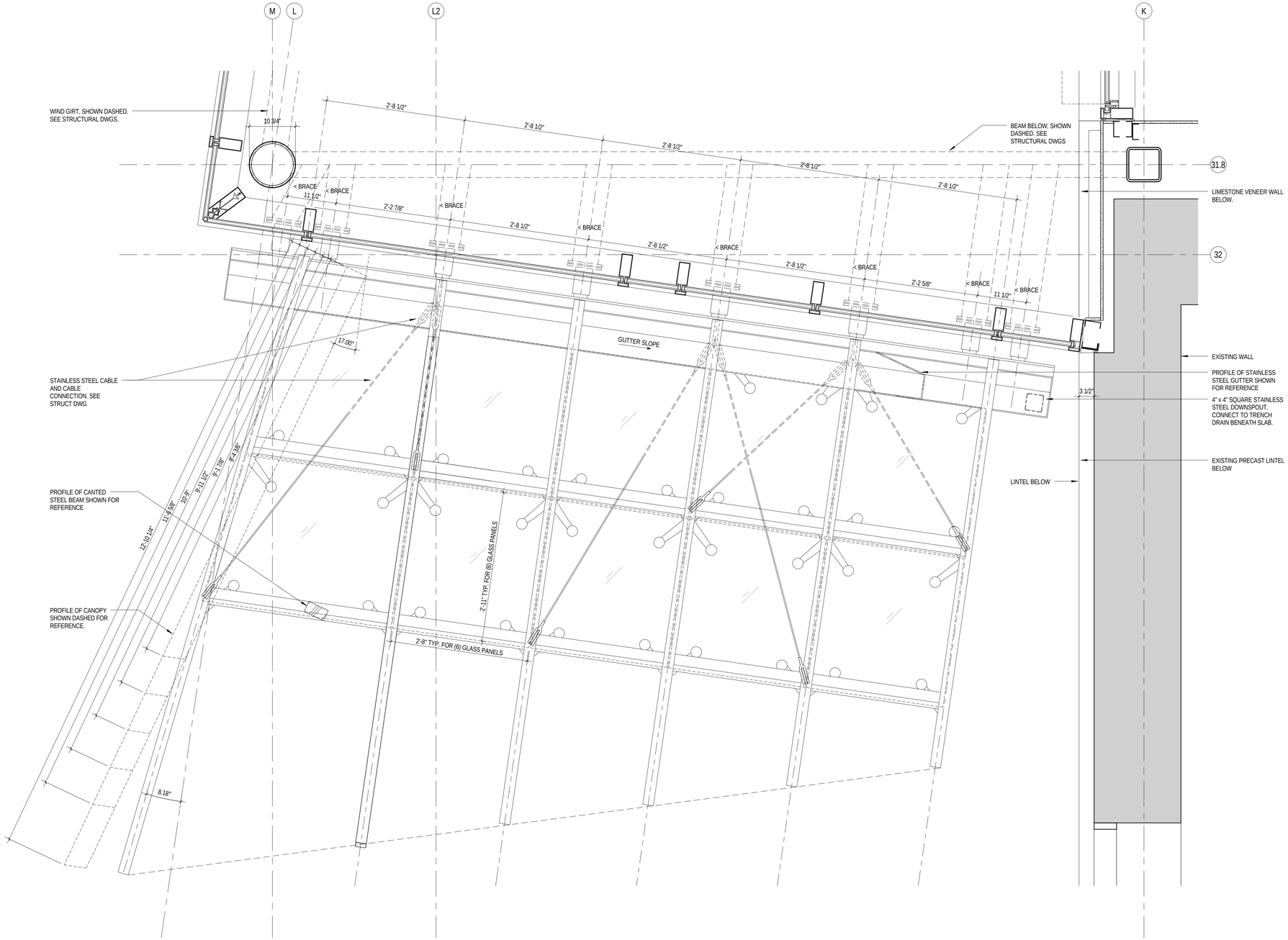
Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 2012.21786
Issued: 10/23/2013
Scale: As indicated

ENLARGED PLANS

A601



1 / A602 South Canopy Plan
1" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

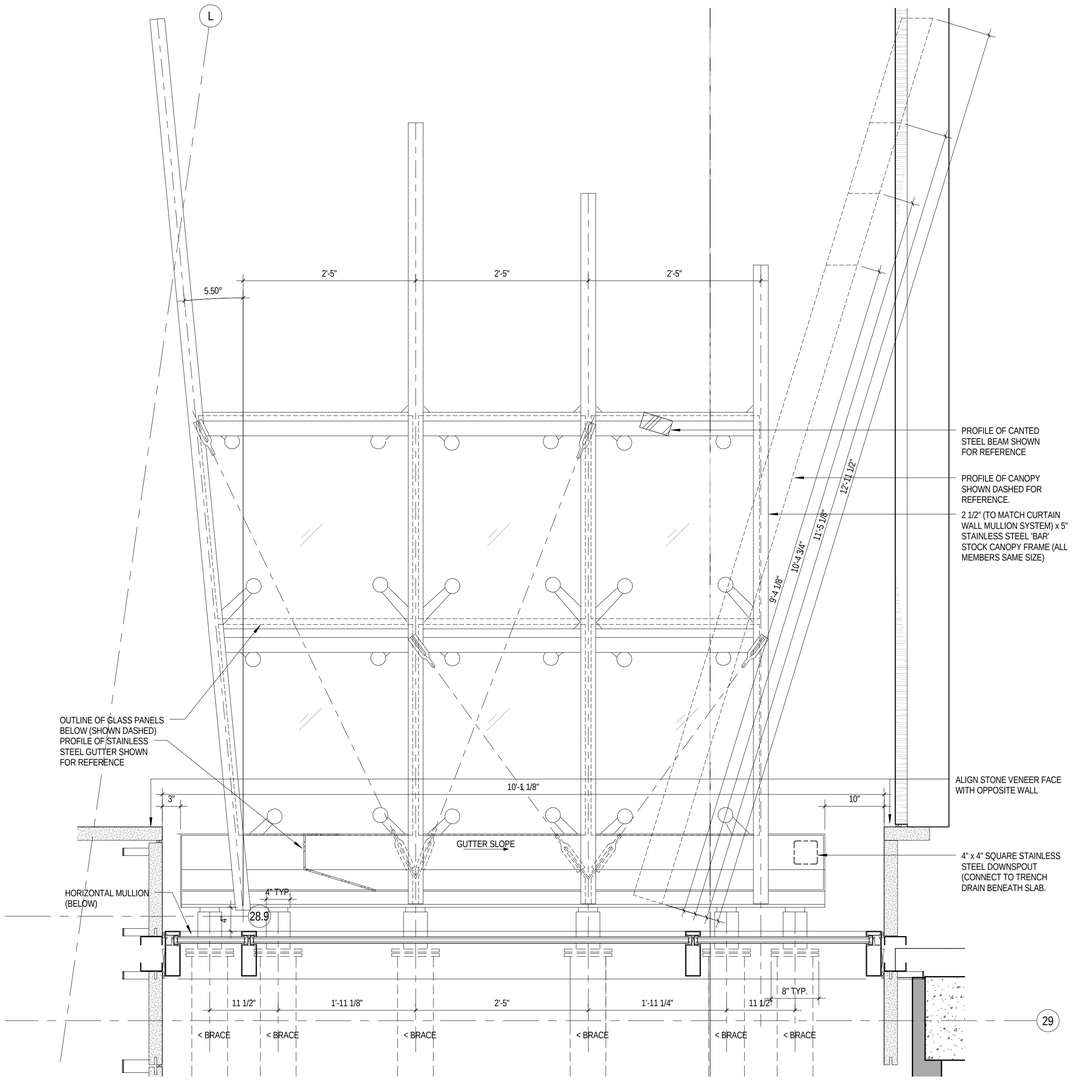
Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1" = 1'-0"

ENLARGED CANOPY PLANS

A602



1
A603
North Canpy Plan
1" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

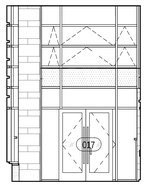
Cornell University

50% CONSTRUCTION DOCUMENTS

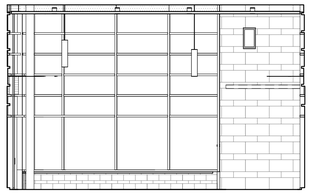
Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1" = 1'-0"

ENLARGED
CANOPY PLANS

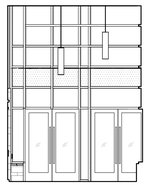
A603



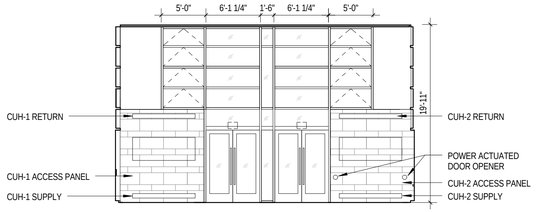
1 A701 Vestibule North
1/8" = 1'-0"



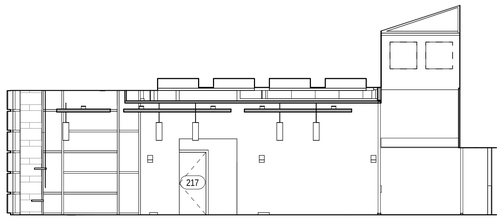
2 A701 Vestibule West
1/8" = 1'-0"



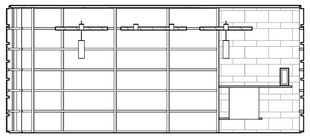
3 A701 Vestibule South
1/8" = 1'-0"



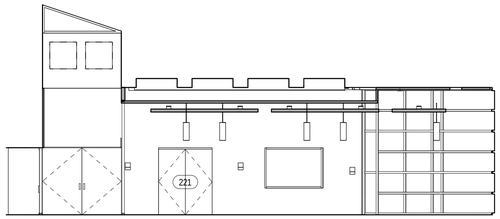
4 A701 Vestibule East
1/8" = 1'-0"



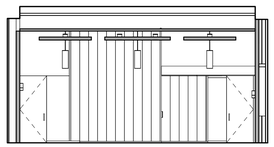
5 A701 Infill North
1/8" = 1'-0"



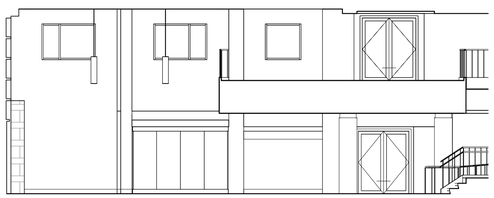
6 A701 Infill West
1/8" = 1'-0"



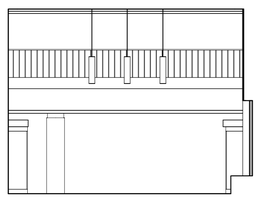
7 A701 Infill South
1/8" = 1'-0"



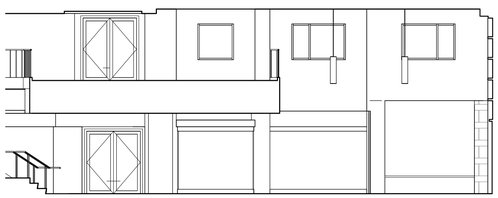
8 A701 Infill East
1/8" = 1'-0"



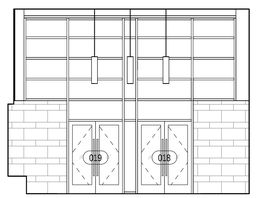
9 A701 Atrium North
1/8" = 1'-0"



10 A701 Atrium East
1/8" = 1'-0"



11 A701 Atrium South
1/8" = 1'-0"



12 A701 Atrium West
1/8" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

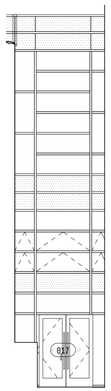
Cornell University

50% CONSTRUCTION DOCUMENTS

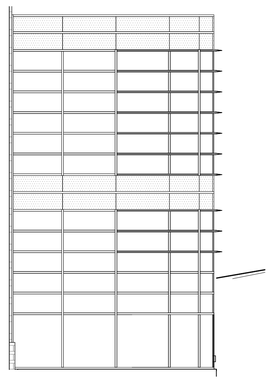
Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1/8" = 1'-0"

INTERIOR ELEVATIONS

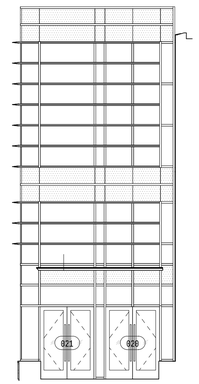
A701



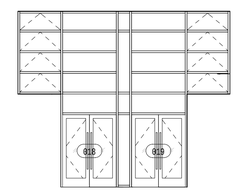
Curtain Wall Types - North



Curtain Wall Types - West



Curtain Wall Types - South



Curtain Wall Types - East

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

50% CONSTRUCTION DOCUMENTS

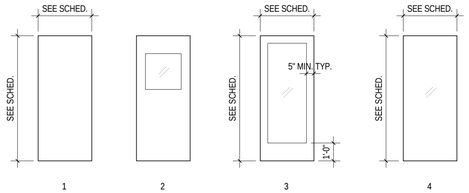
Project No.: 2012.21786
Issued: 10/23/2013
Scale: 1/8" = 1'-0"

CURTAIN WALL ELEVATIONS

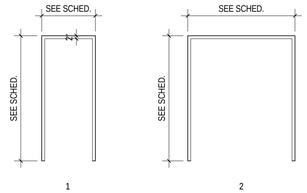
A902

DOOR SCHEDULE														
							FRAME	FRAME	DETAILS				DOOR HARDWARE SET	
FLOOR	MARK	HEIGHT	Width	THICKNESS	DOOR FINISH	TYPE	TYPE	MATERIAL	HEAD	JAMB	SILL	FIRE RATING		COMMENTS
00 GROUND FLOOR	017	7' - 10 3/4"	6' - 0"		AL/GL	3	CW	HM			A			
00 GROUND FLOOR	018	8' - 1 1/4"	6' - 0"		AL/GL	3	CW	HM			B			
00 GROUND FLOOR	019	8' - 1 1/4"	6' - 0"		AL/GL	3	CW	HM			B			AUTOMATED OPEN SMOKE PURGE, ONE LEAF
00 GROUND FLOOR	020	8' - 1 1/4"	6' - 0"		AL/GL	3	CW	HM			A			AUTOMATED OPEN SMOKE PURGE, ONE LEAF
00 GROUND FLOOR	021	8' - 1 1/4"	6' - 0"		AL/GL	3	CW	HM			A			
01 FIRST FLOOR	224	7' - 0"	6' - 0"	2"										
02 SECOND FLOOR	217	7' - 0"	3' - 0"	1 3/4"	WD	1	1	WD			C			SOLID MINERAL CORE, WD FINISH, FLUSH HINGES, SECURED
02 SECOND FLOOR	218	7' - 6"	3' - 0"	1 3/4"	GL	4	SF	AL			C			TOP AND BOTTOM STILES ONLY, CLOSERS OFFSET HINGES AND BOLT AT TOP STILE, SECURED, EGRESS PATH
02 SECOND FLOOR	219	7' - 6"	8' - 9 3/4"	1"	GL	4	2	AL			D			MINIMAL VISIBLE HARDWARE, SECURED, HOLD OPENS
02 SECOND FLOOR	220	7' - 6"	3' - 0"	1 3/4"	WD	4	SF	AL			C			TOP AND BOTTOM STILES ONLY, CLOSERS OFFSET HINGES AND BOLT AT TOP STILE, SECURED, EGRESS PATH
02 SECOND FLOOR	221	7' - 4"	6' - 0"	1 3/4"	GL	2	2	WD			E			SOLID CORE WD. DOUBLE SWING, SECURED, INTERNAL LITE EACH DOOR
02 SECOND FLOOR	222	8' - 0"	6' - 0"	1/8"	GL	VERT	CEIL	STL			F			VERTICAL ACTING FIRE DOOR

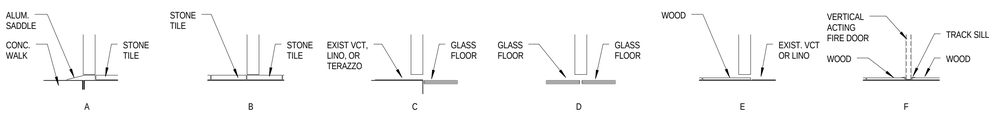
DOOR TYPES:



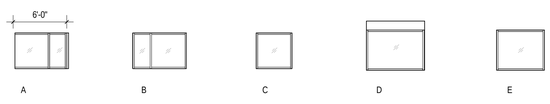
FRAME TYPES:



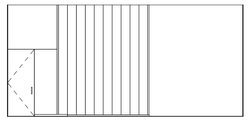
1 A903 Door and Frame Types
1/4" = 1'-0"



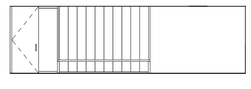
2 A903 Door Sill Types
1/2" = 1'-0"



3 A903 Window Types
1/8" = 1'-0"



8 A903 West Infill Entry Wall
1/8" = 1'-0"



9 A903 East Infill Entry Wall
1/8" = 1'-0"

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

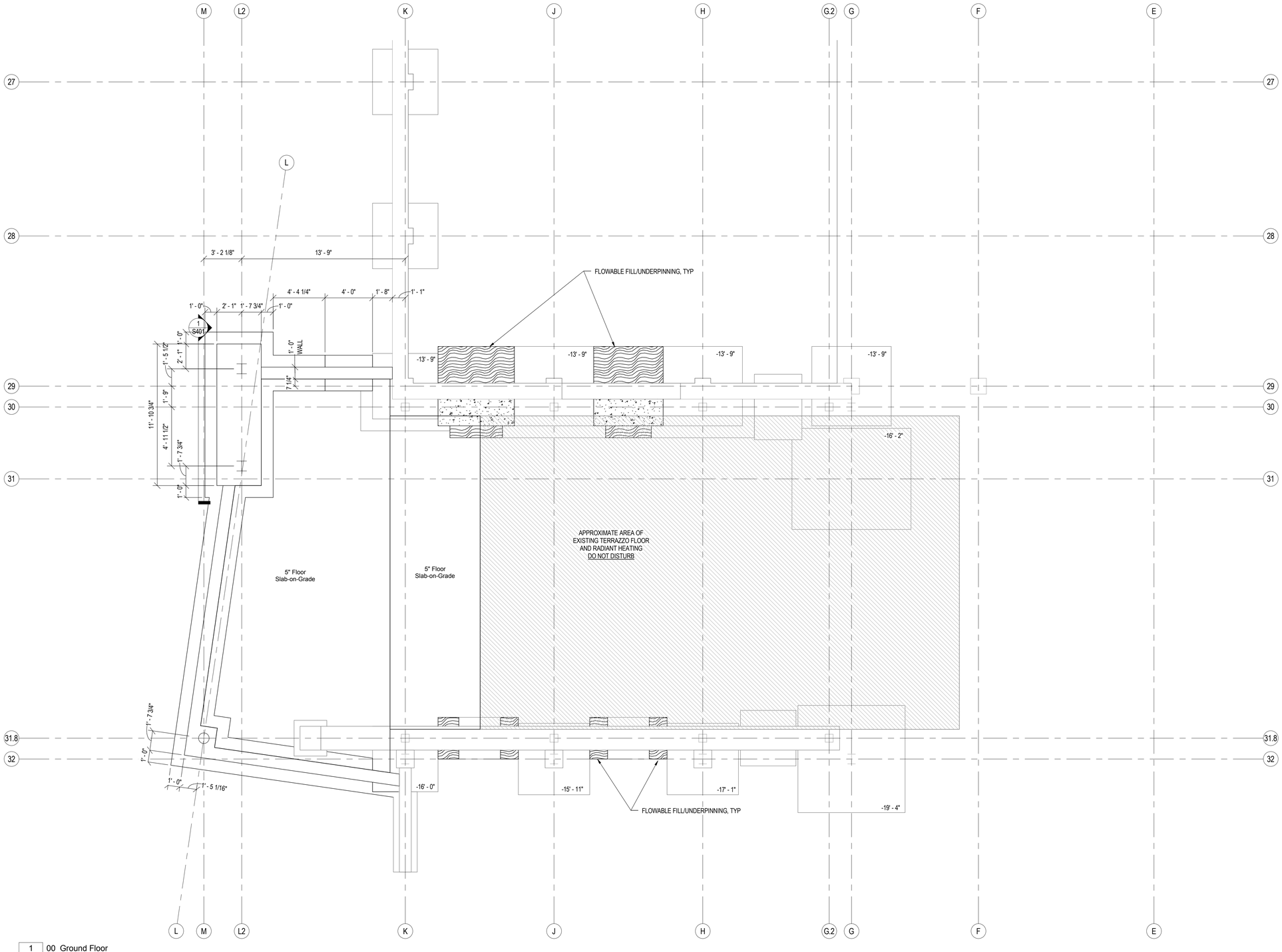
Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 2012.21786
Issued: 10/23/2013
Scale: As indicated

DOOR SCHEDULE

A903



1 00 Ground Floor

SCALE: 1/4" = 1'-0"

NOTES:
1. TOP MEMBER REFERENCE ELEVATION FOR THIS SHEET IS +0'-0".
2. FINISH FLOOR ELEVATION FOR THIS SHEET IS +0'-0"
3. ALL MEMBERS MARKED (+/- X'-X") ARE ABOVE OR BELOW THE PLAN REFERENCE ELEVATION IN NOTE 1.
4. REFERENCE ELEVATION 0'-0" = FINISHED GROUND FLOOR= SITE DATUM 812.33.

10/25/2013 2:57:30 PM C:\Users\Tims\Documents\3801301- Cornell SHA East Entry_tims-REVIT 14.rvt

CLARK ENGINEERING & SURVEYING, P.C.
20 SHAKER RD, BOX 730
NEW LEBANON, NY 12125
TEL:(518)794-8613
FAX:(877)315-6653
www.clarkpc.com

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering & Surveying
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

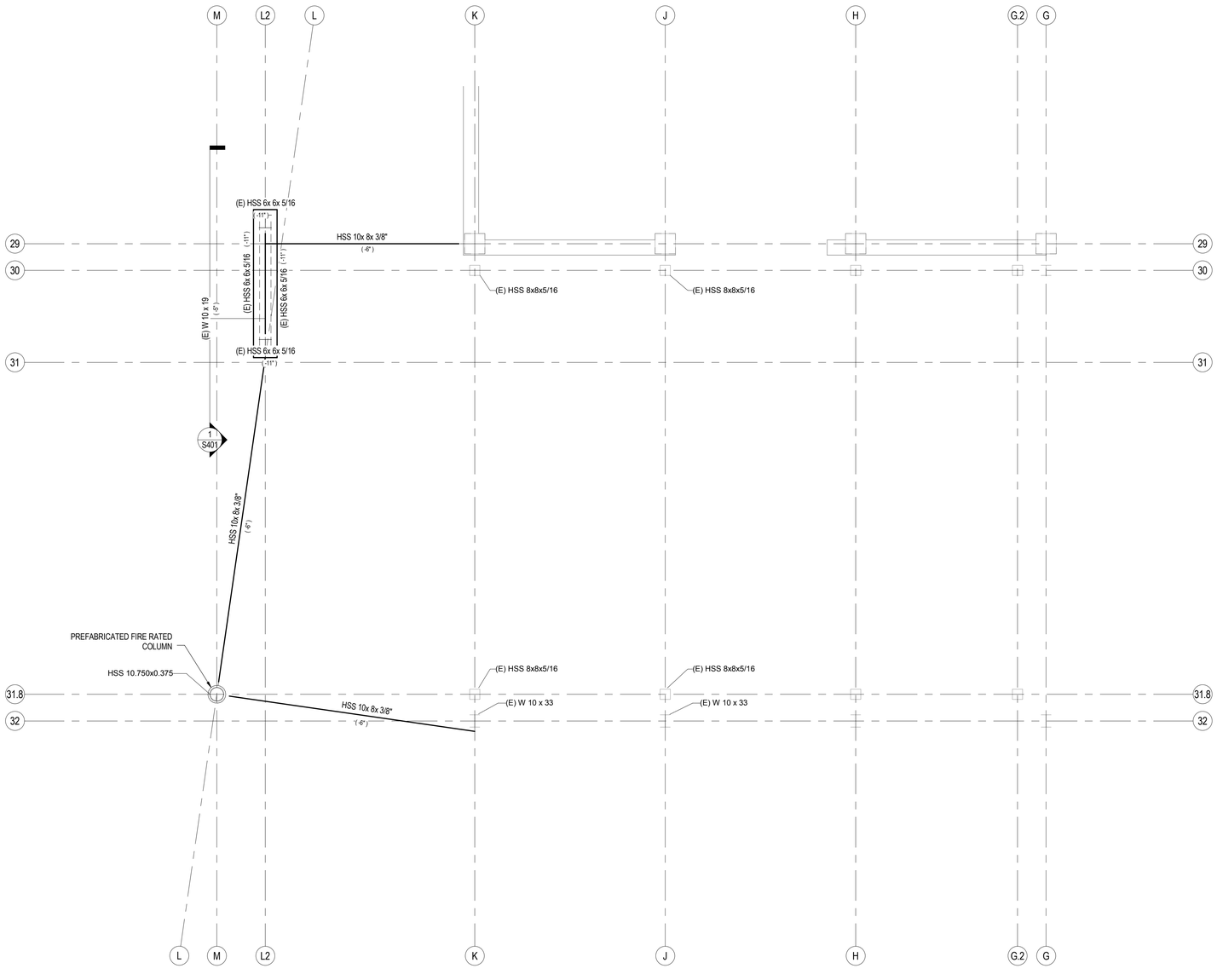
Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 3801301
Issued: 10/23/13
Scale: 1/4" = 1'-0"

FOUNDATION PLAN

S101



1	01 First Floor
	SCALE: 1/4" = 1'-0"

NOTES:
1. TOP MEMBER REFERENCE ELEVATION FOR THIS SHEET IS +12'-8".
2. FINISH FLOOR ELEVATION FOR THIS SHEET IS +12'-8"
3. ALL MEMBERS MARKED (+/- X'-X") ARE ABOVE OR BELOW THE PLAN REFERENCE ELEVATION IN NOTE 1.
4. REFERENCE ELEVATION 0'-0" = FINISHED GROUND FLOOR= SITE DATUM 812.33.

CLARK ENGINEERING & SURVEYING, P.C.
20 SHAKER RD, BOX 730
NEW LEBANON, NY 12125
TEL:(518)794-8613
FAX:(877)315-6653
www.clarkpc.com

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering & Surveying
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

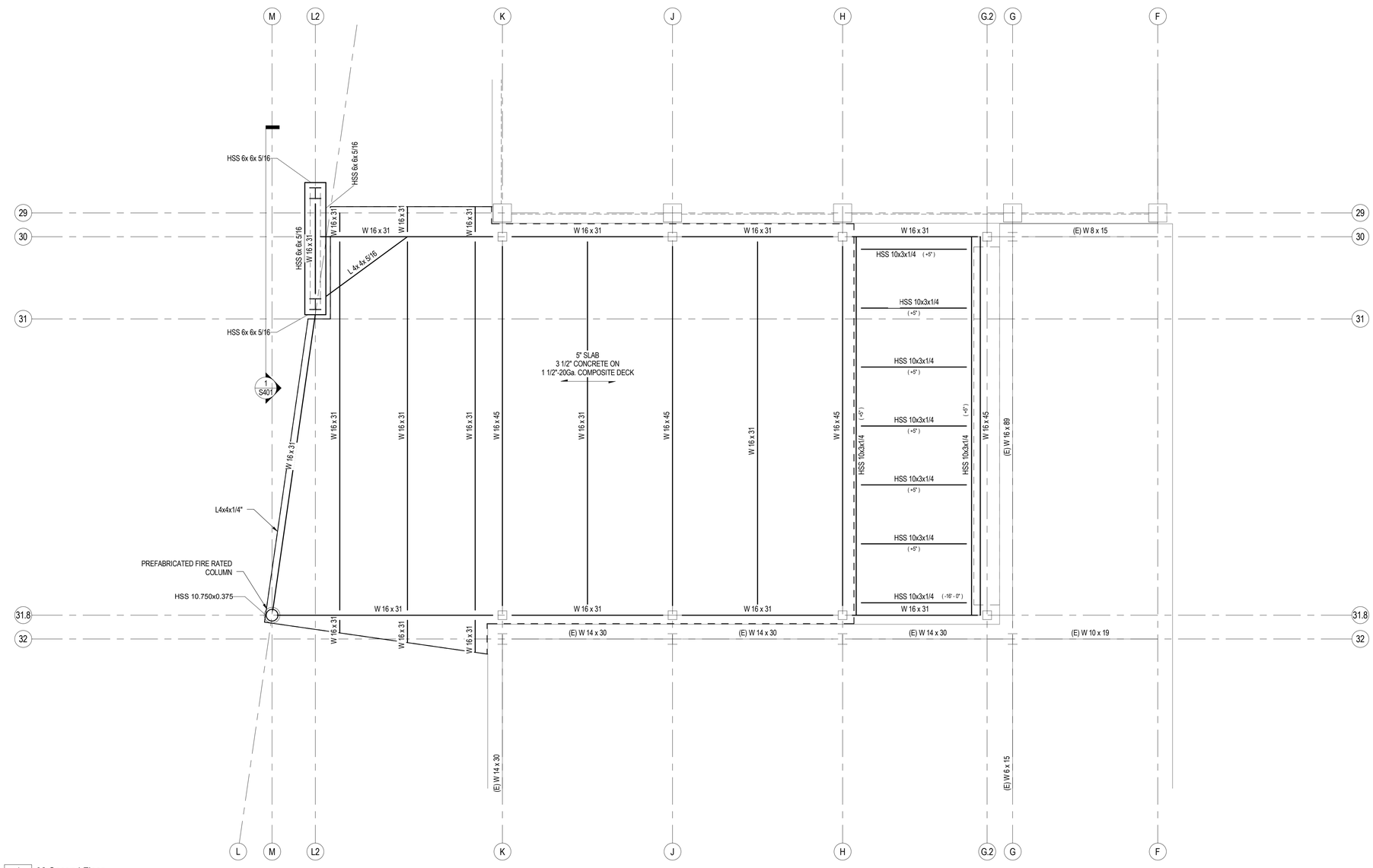
50% CONSTRUCTION DOCUMENTS

Project No.: 3801301
Issued: 10/23/13
Scale: 1/4" = 1'-0"

FIRST FLOOR
LEVEL FRAMING

S102

10/25/2013 2:57:31 PM C:\Users\Tims\Documents\3801301- Cornell SHA East Entry_tims-REVIT 14.rvt



1 02 Second Floor

SCALE: 1/4" = 1'-0"

NOTES:
1. TOP MEMBER REFERENCE ELEVATION FOR THIS SHEET IS +23'-1".
2. FINISH FLOOR ELEVATION FOR THIS SHEET IS +23'-8"
3. ALL MEMBERS MARKED (+/- X'-X") ARE ABOVE OR BELOW THE PLAN REFERENCE ELEVATION IN NOTE 1.
4. REFERENCE ELEVATION 0'-0" = FINISHED GROUND FLOOR= SITE DATUM 812.33.

10/25/2013 2:57:32 PM C:\Users\Tims\Documents\3801301- Cornell SHA East Entry_tims-REVIT 14.rvt

CLARK ENGINEERING & SURVEYING, P.C.
20 SHAKER RD, BOX 730
NEW LEBANON, NY 12125
TEL:(518)794-8613
FAX:(877)315-6453
www.clarkpc.com

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering & Surveying
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
337 Witherspoon Street
Princeton, NJ 08542
Tel: 609-921-1131

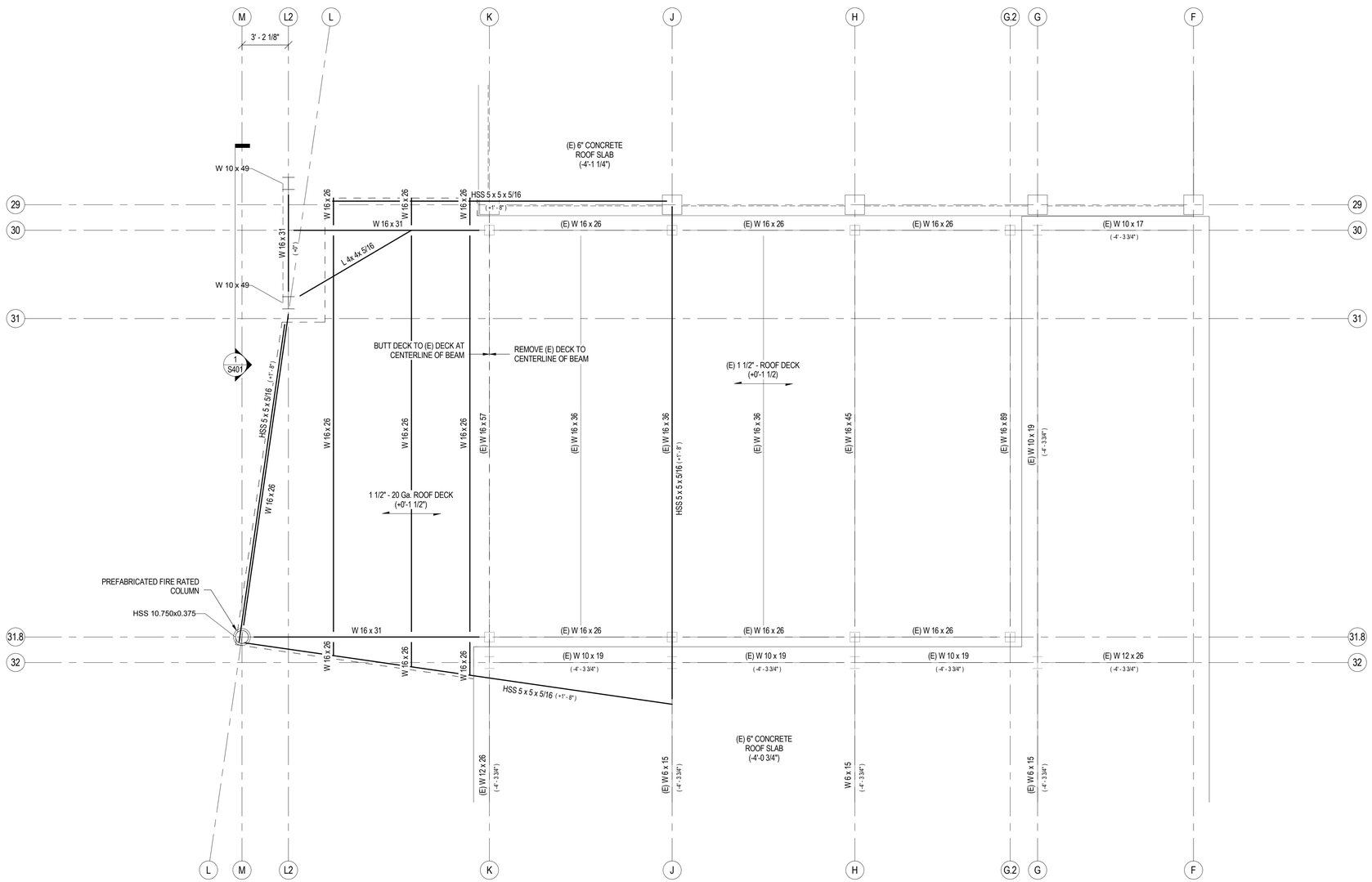
Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 3801301
Issued: 10/23/13
Scale: 1/4" = 1'-0"

SECOND FLOOR FRAMING PLAN

S103



1 03 Third Floor

SCALE: 1/4" = 1'-0"

NOTES:
1. TOP MEMBER REFERENCE ELEVATION FOR THIS SHEET IS +39'-6".
2. TOP OF ROOF DECK ELEVATION FOR THIS SHEET IS +39'-8 1/2"
3. ALL MEMBERS MARKED (+/- X'-X") ARE ABOVE OR BELOW THE PLAN REFERENCE ELEVATION IN NOTE 1.
4. REFERENCE ELEVATION 0'-0" = FINISHED GROUND FLOOR= SITE DATUM 812.33.

10/25/2013 2:57:33 PM C:\Users\Tims\Documents\3801301- Cornell SHA East Entry_tims-REVIT 14.rvt

CLARK ENGINEERING & SURVEYING, P.C.
20 SHAKER RD, BOX 730
NEW LEBANON, NY 12125
TEL:(518)794-8613
FAX:(877)315-6453
www.clarkpc.com

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering & Surveying
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
337 Witherspoon Street
Princeton, NJ 08542
Tel: 609-921-1131

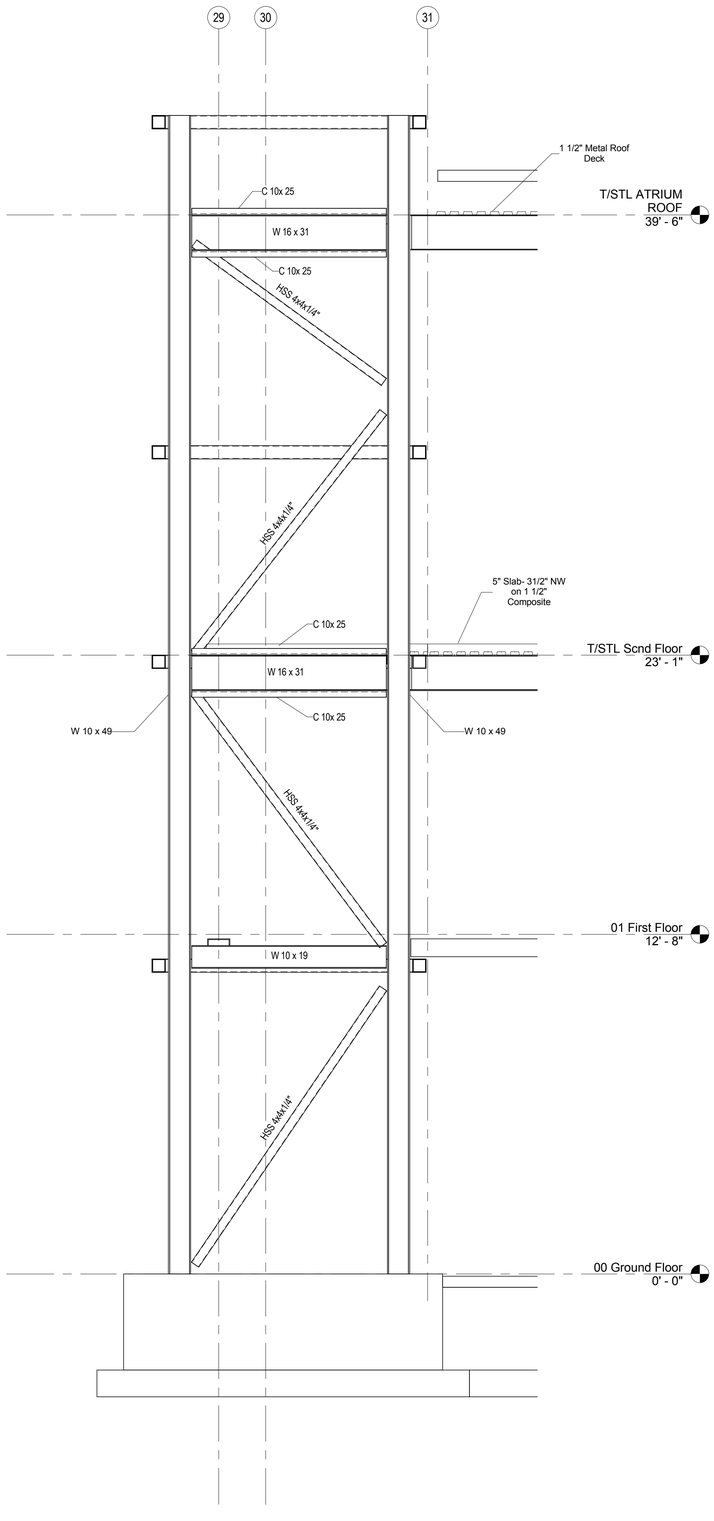
Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 3801301
Issued: 10/23/13
Scale: 1/4" = 1'-0"

ROOF FRAMING PLAN

S104



1	S ELEV 01- TOWER BRACING
	SCALE: 3/8" = 1'-0"

C:\Users\Tims\Documents\3801301- Cornell SHA East Entry_tims-REVIT 14.rvt

10/25/2013 2:57:34 PM

CLARK ENGINEERING & SURVEYING, P.C.

20 SHAKER RD, BOX 730
NEW LEBANON, NY 12125
TEL:(518)794-8613
FAX:(877)315-6653
www.clarkpc.com

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering & Surveying
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 3801301
Issued: 10/23/13
Scale: 3/8" = 1'-0"

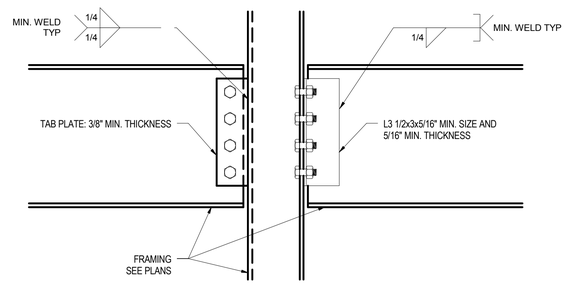
BRACING ELEVATION

S401

MASONRY OPENING STEEL ANGLE LINTEL SCHEDULE					
MEMBER SIZES GIVEN ARE ONLY FOR SUPPORT OF MASONRY OPENING WITH NO ADDITIONAL SUPERIMPOSED LOADS ABOVE. SEE PLANS FOR SPECIAL LINTELS SUPPORTING POINT LOADS. PROVIDE 8" MIN BEARING OF LINTELS AT EACH END U.N.O. HOT-DIP GALVANIZE LINTELS IN EXTERIOR WALLS U.N.O.					
CLEAR MASONRY OPENING WIDTH	LINTEL FOR 4" MASONRY WALLS	LINTEL FOR 6" MASONRY WALLS	LINTEL FOR 8" MASONRY WALLS	LINTEL FOR 10" MASONRY WALLS	LINTEL FOR 12" MASONRY WALLS
8" TO 1'-5"	FLAT 5/16" PLATE	FLAT 5/16" PLATE	FLAT 5/16" PLATE	FLAT 5/16" PLATE	FLAT 5/16" PLATE
1'-6" TO 2'-11"	L3 1/2x3 1/2x1/4"	WT4x9	(2) L3 1/2x3 1/2x1/4"	L5x3x1/4 and L4x3x1/4" (LLH)	L6x3 1/2x5/16" and L5x3 1/2x5/16" (LLH)
3'-0" TO 3'-11"	L3 1/2x3 1/2x5/16"	WT4x9	(2) L3 1/2x3 1/2x5/16"	L5x3x1/4 and L4x3x1/4" (LLH)	L6x3 1/2x5/16" and L5x3 1/2x5/16" (LLH)
4'-0" TO 4'-11"	L3 1/2x3 1/2x3/8"	WT4x10.5	(2) L3 1/2x3 1/2x3/8"	L5x3x1/4 and L4x3x1/4" (LLH)	L6x3 1/2x5/16" and L5x3 1/2x5/16" (LLH)
5'-0" TO 5'-11"	L4x3 1/2x5/16" (LLV)	WT5x11	(2) L4x3 1/2x5/16" (LLV)	L5x3 1/2x1/4" and L4x3 1/2x1/4" (LLH)	L6x3 1/2x3/8" and L5x3 1/2x3/8" (LLH)
6'-0" TO 6'-11"	L4x3 1/2x3/8" (LLV)	WT5x11	(2) L4x3 1/2x3/8" (LLV)	L5x3 1/2x3/8" and L4x3 1/2x3/8" (LLH)	L6x3 1/2x3/8" and L5x3 1/2x3/8" (LLH)
7'-0" TO 7'-11"	L5x3 1/2x5/16" (LLV)	WT8x13	(2) L5x3 1/2x5/16" (LLV)	L6x6x5/16" and L6x3 1/2x5/16" (LLV)	L6x6x3/8" and L5x5x3/8"
8'-0" TO 8'-11"	L5x3 1/2x3/8" (LLV)	WT8x13	(2) L5x3 1/2x3/8" (LLV)	L6x6x5/16" and L6x3 1/2x5/16" (LLV)	L6x6x3/8" and L5x5x3/8"
9'-0" TO 9'-11"	L6x3 1/2x3/8" (LLV)	WT8x13	(2) L6x3 1/2x3/8" (LLV)	L6x6x3/8" and L6x3 1/2x3/8" (LLV)	L6x6x3/8" and L5x5x3/8"

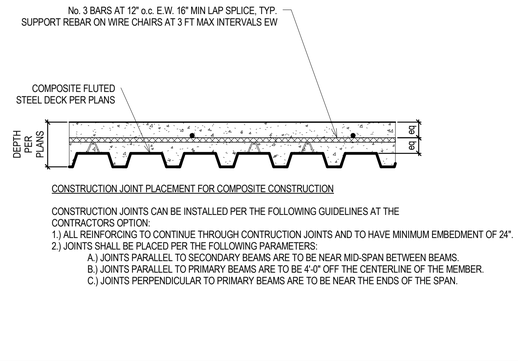
A1 LOOSE LINTEL SCHEDULE

SCALE: 12" = 1'-0"



B4 STANDARD CONNECTION DETAILS

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



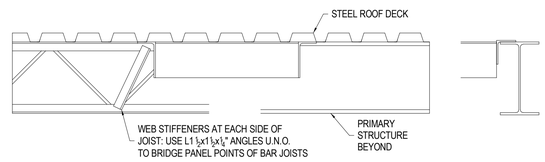
CONSTRUCTION JOINT PLACEMENT FOR COMPOSITE CONSTRUCTION

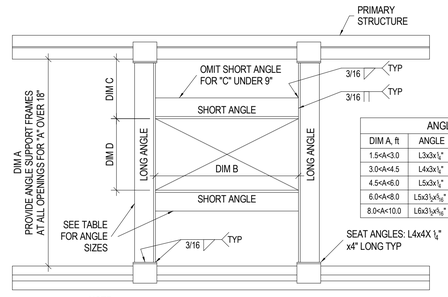
CONSTRUCTION JOINTS CAN BE INSTALLED PER THE FOLLOWING GUIDELINES AT THE CONTRACTORS OPTION:

1.) ALL REINFORCING TO CONTINUE THROUGH CONTRUCTION JOINTS AND TO HAVE MINIMUM EMBEDMENT OF 24".
2.) JOINTS SHALL BE PLACED PER THE FOLLOWING PARAMETERS:
   A.) JOINTS PARALLEL TO SECONDARY BEAMS ARE TO BE NEAR MID-SPAN BETWEEN BEAMS.
   B.) JOINTS PARALLEL TO PRIMARY BEAMS ARE TO BE 4'-0" OFF THE CENTERLINE OF THE MEMBER.
   C.) JOINTS PERPENDICULAR TO PRIMARY BEAMS ARE TO BE NEAR THE ENDS OF THE SPAN.

B6 SUSPENDED SLAB DETAIL

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





ANGLE SIZES			
DIM A, ft	ANGLE	DIM B	ANGLE
1.5<A<3.0	L3x3x1/4"	1.5<A<6.0	L3x3x1/4"
3.0<A<4.5	L4x3x1/4"	6.0<A<8.0	L4x3x1/4"
4.5<A<6.0	L5x3x1/4"	8.0<A<10.0	L5x3x1/4"
6.0<A<8.0	L5x3 1/2x5/16"		
8.0<A<10.0	L6x3 1/2x5/16"		

NOTE:
INSTALL SUPPORT ANGLES AS SHOWN FOR ALL ROOF OPENINGS PROVIDED UNDER CONTRACT. COORDINATE QUANTITY AND LOCATIONS WITH ALL OTHER CONTRACTS.

A3 TYPICAL ROOF OPENING DETAIL

SCALE: 1" = 1'-0"

10/25/2013 2:57:35 PM C:\Users\Tims\Documents\3801301- Cornell SHA East Entry_tims-REVIT 14.rvt

CLARK ENGINEERING & SURVEYING, P.C.
20 SHAKER RD, BOX 730
NEW LEBANON, NY 12125
TEL:(518)794-8613
FAX:(877)315-6653
www.clarkpc.com

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering & Surveying
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

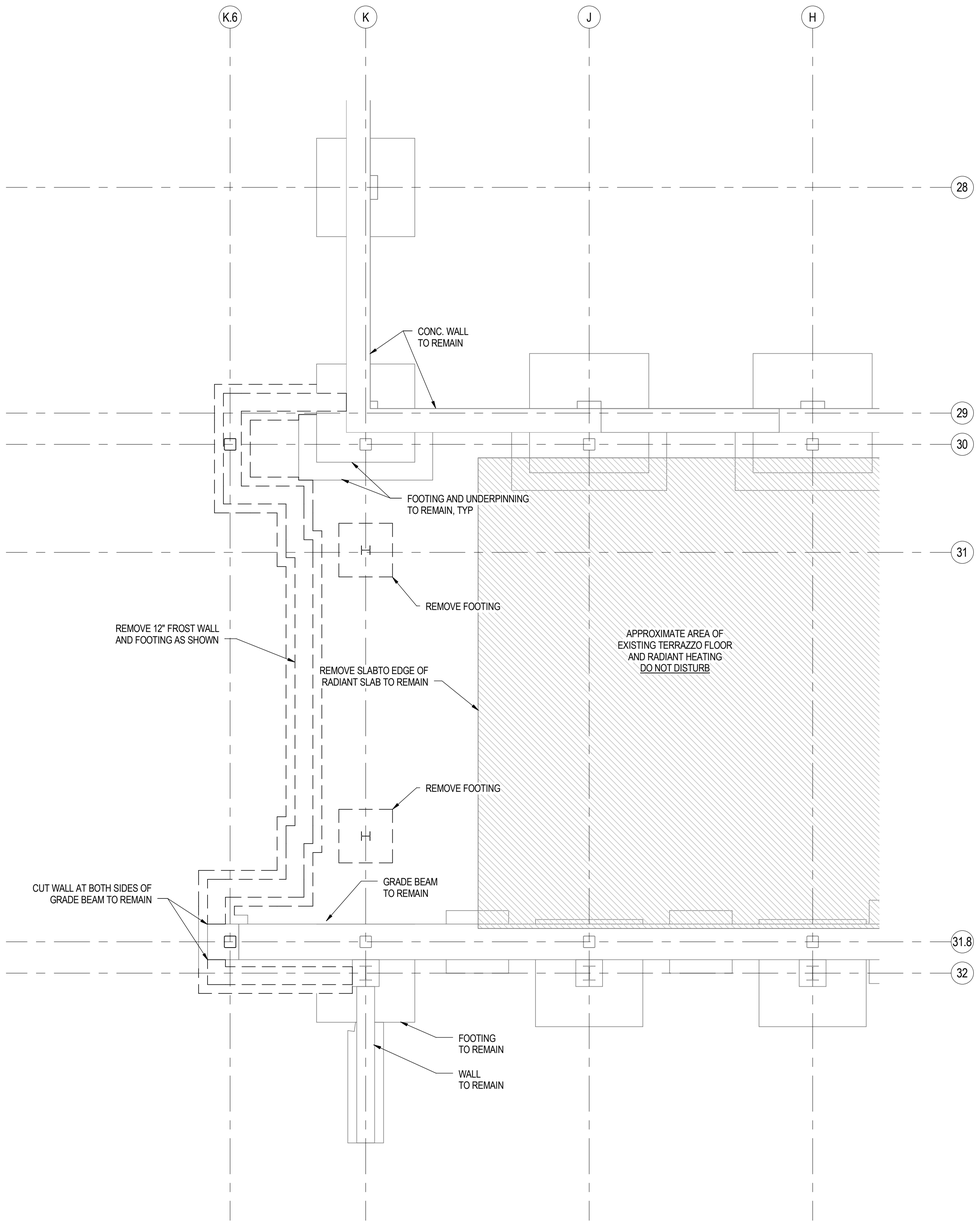
Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 3801301
Issued: 10/23/13
Scale: As indicated

TYPICAL FRAMING DETAILS

S510



1 Demo 00 Ground Floor

SCALE: 1/4" = 1'-0"

10/25/2013 2:57:36 PM C:\Users\Tims\Documents\3801301- Cornell SHA East Entry_tims-REVIT 14.rvt

[redacted]

CLARK ENGINEERING & SURVEYING, P.C.
20 SHAKER RD, BOX 730
NEW LEBANON, NY 12125
TEL:(518)794-8613
FAX:(877)315-6653
www.clarkpc.com

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering & Surveying
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

[redacted]

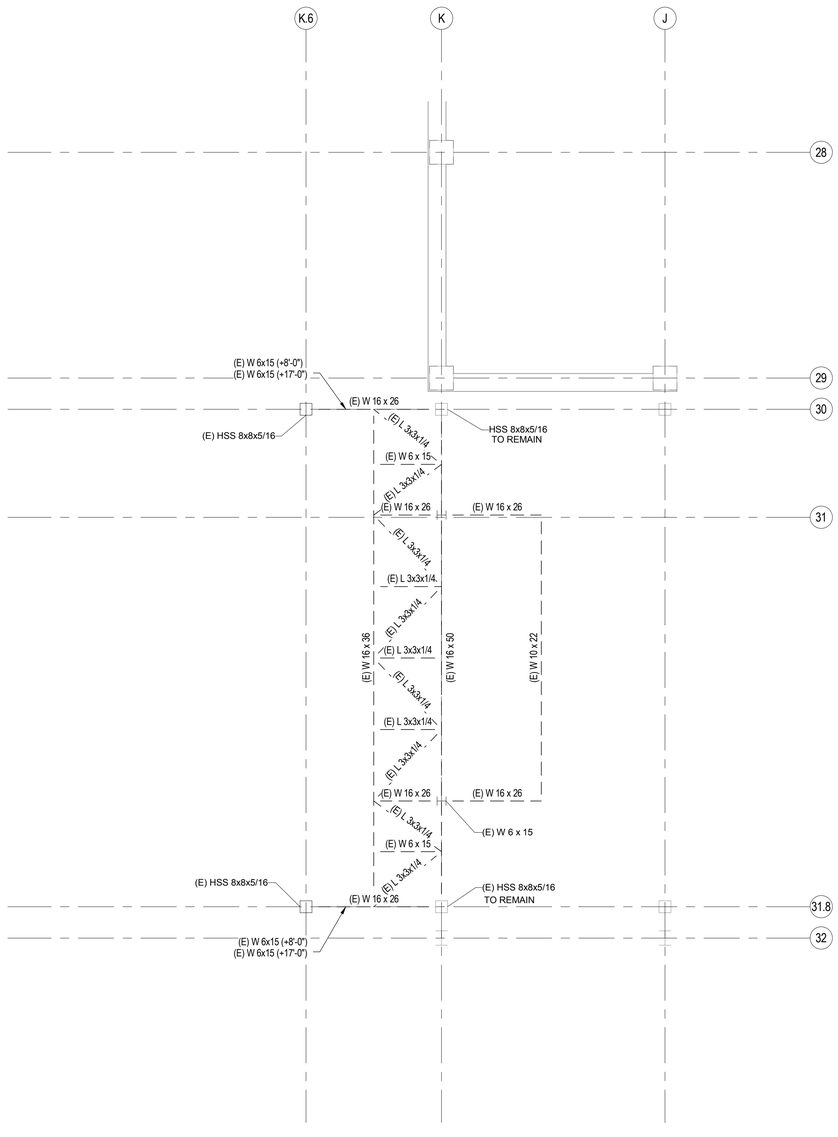
50% CONSTRUCTION DOCUMENTS

Project No.:	3801301
Issued:	10/23/13
Scale:	1/4" = 1'-0"

FOUNDATION
DEMOLITION PLAN

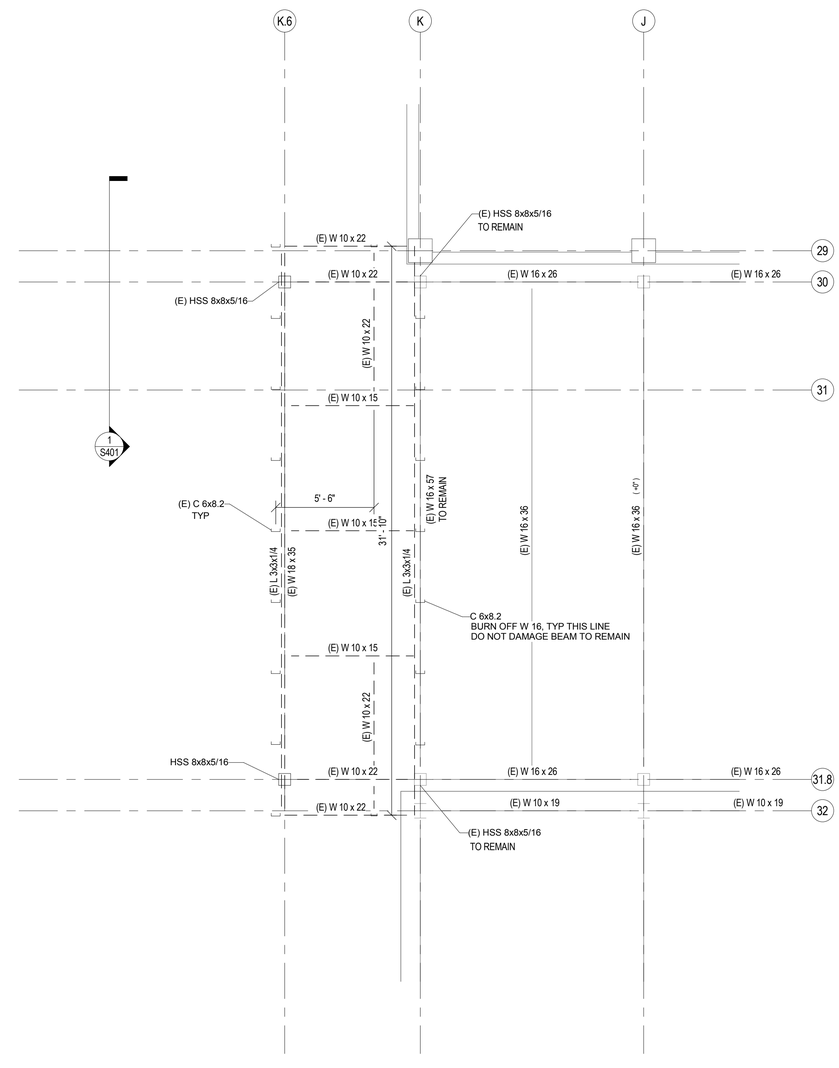
SD101

[redacted]



1 Demo 01 First Floor

SCALE: 1/4" = 1'-0"



2 Demo 03 Third Floor

SCALE: 1/4" = 1'-0"

10/25/2013 2:57:37 PM C:\Users\Tims\Documents\3801301- Cornell SHA East Entry_tims-REVIT 14.rvt

CLARK ENGINEERING & SURVEYING, P.C.
20 SHAKER RD, BOX 730
NEW LEBANON, NY 12125
TEL:(518)794-8613
FAX:(877)315-6453
www.clarkpc.com

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

REVISIONS

No.	Date	Description

MEP / FP:
M/E Engineering
150 North Chestnut Street
Rochester, New York 14604
585.288.5590

LANDSCAPE:
Trowbridge Wolf Michaels, LLP
1001 West Seneca Street, Suite 101
Ithaca, New York 14805
607.277.1400

STRUCTURAL / CIVIL:
Clark Engineering & Surveying
New Lebanon, NY 12125
20 Shaker Road, PO Box 730
518.794.8613

ARCHITECT:
K S S A R C H I T E C T S L L P
Public Ledger Building, Suite 944
150 South Independence Mall West
Philadelphia, PA 19106
Tel: 215-320-3000

Cornell University

50% CONSTRUCTION DOCUMENTS

Project No.: 3801301
Issued: 10/23/13
Scale: 1/4" = 1'-0"

STRUCTURAL DEMOLITION PLAN

SD102

HVAC SYMBOL LIST

SYMBOL	DESCRIPTION
	EXISTING WORK TO BE REMOVED
	POINT OF CONNECTION
	POINT OF DISCONNECTION
MBH	THOUSAND BTU/HOUR
NTS	NOT TO SCALE
(E)	EXISTING
(L)	ACOUSTIC THERMAL LINING - 1½" THICK
(2L)	ACOUSTIC THERMAL LINING - 2" THICK
(DBL)	DOUBLE WALL LINED DUCT- 3" THICK
FPM	FEET PER MINUTE
CFM	CUBIC FEET PER MINUTE
AFF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
W/W	WALL TO WALL
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
	FLEXIBLE DUCTWORK
AxB FO	DUCT SECTION - FLAT OVAL (FO)
12"	ROUND DUCT - IN INCHES
	DUCT SECTION - SUPPLY
	DUCT SECTION - RETURN
A B	WIDTH A x DEPTH B
SINGLE LINE / DOUBLE LINE	DUCT TAKEOFFS
	TRANSITION SQUARE TO ROUND
R	RISE IN DUCT - IN DIRECTION OF AIRFLOW
D	DROP IN DUCT - IN DIRECTION OF AIRFLOW
DN 10x8 UP / DN 24x12 UP	SUPPLY DUCT TURNING UP OR DOWN
DN 10x8 UP / DN 24x12 UP	RETURN DUCT TURNING UP OR DOWN
10x8 8x6 / 24x12 6" BOOT TAP 14x8	SUPPLY/RETURN RECTANGULAR MAIN RECTANGULAR BRANCH
10x8 8" / 24x12 6" BOOT TAP 14"	SUPPLY/RETURN RECTANGULAR MAIN ROUND BRANCH
10" 8" / 18" CONICAL TEE 14"	SUPPLY/RETURN ROUND MAIN ROUND BRANCH
10" 8" / 18" LATERAL 14"	SUPPLY/RETURN ROUND MAIN ROUND BRANCH
	SUPPLY DIFFUSER, REGISTER OR GRILLE
	THREE WAY THROW SUPPLY DIFFUSER, REGISTER OR GRILLE
	TWO WAY THROW SUPPLY DIFFUSER, REGISTER OR GRILLE
	ONE WAY THROW SUPPLY DIFFUSER, REGISTER OR GRILLE
	RETURN OR EXHAUST REGISTER OR GRILLE
	FIN TUBE RADIATION
	VALANCE
	RADIANT CEILING PANEL
A B C	REGISTER, GRILLE OR DIFFUSER TAG A - TYPE B - NECK SIZE C - CFM
FT-A B C D	FIN TUBE RADIATION/ RADIANT CEILING PANEL TAG FT-A - TYPE B - FIN TUBE LENGTH C - ENCLOSURE LENGTH D - GPM
A B C D	VALANCE TAG A - TYPE B - COIL SIZE C - COOLING GPM D - HEATING GPM
	AIR TERMINAL UNIT
	AIR TERMINAL UNIT WITH FACTORY ATTENUATOR
	LAB AIR VALVE
	LAB AIR VALVE WITH FACTORY SOUND ATTENUATOR
	SERVICE CLEARANCE
A	AIR TERMINAL UNIT AND TAG (OPTION 1)
A B C	AIR TERMINAL UNIT TAG (OPTION 2) A - UNIT NO. B - MAXIMUM CFM C - MINIMUM CFM
CO	CARBON MONOXIDE DETECTOR

SYMBOL	DESCRIPTION
S	TEMPERATURE SENSOR
T E	PNEUMATIC/ELECTRIC THERMOSTAT
T G S G	THERMOSTAT/SENSOR WITH GUARD
A	COMPRESSED AIR
V	VENT
BBD	BOILER BLOW DOWN
CS	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
D	DRAIN
FOF	FUEL OIL FILL
FOG	FUEL OIL GAUGE
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL TANK VENT
G	GAS
GS	GLYCOL SUPPLY
GR	GLYCOL RETURN
MTHWS	MEDIUM TEMPERATURE HOT WATER SUPPLY (COGEN)
MTHWR	MEDIUM TEMPERATURE HOT WATER RETURN (COGEN)
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
HPWR	HEAT PUMP WATER RETURN
TCS	FAN COIL UNIT COOLING SUPPLY
TCR	FAN COIL UNIT COOLING RETURN
THS	FAN COIL UNIT HEATING SUPPLY
THR	FAN COIL UNIT HEATING RETURN
LPS	LOW PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MPC	MEDIUM PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HPC	HIGH PRESSURE CONDENSATE
PC	PUMPED CONDENSATE
RD	REFRIGERANT DISCHARGE
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
HG	HOT GAS
VAC	VACUUM
CW	DOMESTIC COLD WATER
TD	TRIPLE DUTY VALVE
	GLOBE VALVE
	BALL VALVE
	GATE VALVE
	CONTROL VALVE
	THREE WAY CONTROL VALVE
	CHECK VALVE
	BALANCING VALVE
	BUTTERFLY VALVE
	SAFETY RELIEF VALVE
PRV	PRESSURE REDUCING VALVE
	PRESSURE/TEMPERATURE TEST PLUG
	SINGLE LINE PIPE OR DUCT CONTINUED
	DOUBLE LINE PIPE OR ROUND DUCT CONTINUED
	DOUBLE LINE RECTANGULAR DUCT CONTINUED
	AIR FLOW
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION COMPENSATOR WITH GUIDES
	PRE-FAB EXPANSION LOOP
	STRAINER
	PRESSURE GAUGE
	THERMOMETER
	UNION
V	AIR VENT
TT	THERMOSTATIC TRAP
FT	FLOAT & THERMOSTATIC TRAP
TD	THERMODYNAMIC TRAP
BT	BUCKET TRAP
	DIRECTION OF FLOW
	CAP OR PLUG
	ELBOW DOWN
	ELBOW UP
	BOTTOM TAP
AAD	AUTOMATIC AIR DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
BDD	BACK DRAFT DAMPER
FC	FLEX CONNECTOR - DUCTWORK
M	MOTORIZED DAMPER
BG	BLAST GATE
	VOLUME DAMPER
SD	SUCTION DIFFUSER
	FLEXIBLE CONNECTOR - PIPING
	DRAIN VALVE WITH HOSE CONNECTION, CAP AND CHAIN
FD/SD	COMBINATION FIRE AND SMOKE DAMPER
PS	PRESSURE SENSOR
DSD	DUCT SMOKE DETECTOR
H	HUMIDISTAT
TS	TEMPERATURE SENSOR

GENERAL NOTES:

A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF ALL DEMOLITION DEBRIS AND MATERIALS OFF SITE IN A PROPER LEGAL MANNER.

B. ALL NEW PENETRATIONS THROUGH WALLS, FLOORS AND ROOFS SHALL BE PROVIDED FOR INSTALLATION OF MECHANICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, DUCTWORK, PIPING, ETC.. ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE FIRE/SMOKE STOPPED. ALL PENETRATIONS THROUGH NON RATED WALLS SHALL BE SEALED WITH A NON-HARDENING SEALANT ON BOTH SIDES OF WALL PENETRATION TO REDUCE NOISE TRANSMISSION.

C. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL AIR VENTS OR DRAINS FOR THE INSTALLATION OF THE PIPING SYSTEMS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AIR VENTS AT ALL SYSTEM HIGH POINTS AND AT AREAS WITHIN THE PIPING SYSTEMS THAT COULD ACCUMULATE OR TRAP AIR PREVENTING PROPER OPERATION OF THE SYSTEMS. DRAINS SHALL BE PROVIDED AT ALL LOW POINTS WITHIN THE PIPING SYSTEMS TO FACILITATE DRAINING OF THE SYSTEM COMPLETELY.

D. THE DUCTWORK SIZES AND TYPES (ROUND, RECTANGULAR AND FLAT OVAL) WERE SELECTED FOR SPACE LIMITATION WITHIN THE RENOVATED AREA. IN ADDITION, THE DUCTWORK SIZES AND TYPES WERE CHOSEN TO ALLOW SPACE ABOVE THE CEILINGS FOR FUTURE DUCTWORK, PIPING AND/OR CONDUIT. IT IS NOT ACCEPTABLE FOR THE CONTRACTOR TO CHANGE THE SIZE OR TYPE OF DUCTWORK FOR BIDDING OR INSTALLATION UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.

E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL SHUTDOWNS OF AIR HANDLING, CHILLED WATER, HOT WATER, STEAM, ECT. SYSTEMS WITH CORNELL UNIVERSITY FACILITY PERSONNEL FOR TIE-IN CONNECTIONS. THE CONTRACTOR SHALL ASSIST THE UNIVERSITY PERSONNEL IN SHUTTING DOWN, DRAINING, VENTING, ECT. OF SYSTEM TO FACILITATE THE INTENDED WORK. ALL SHUTDOWNS WILL OCCUR DURING NIGHTS AND WEEKENDS.

F. IT IS THE REQUIREMENT OF THE PROJECT THE CONSTRUCTION WORK BE PHASED TO FACILITATE MINIMUM IMPACT TO THE NORMAL OPERATION OF THE FACILITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO THOROUGHLY REVIEW THE GENERAL CONDITIONS AND THE ARCHITECTURAL BID DOCUMENTS FOR THE PHASING REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR ALL TEMPORARY SERVICES (SUPPLY AIR, RETURN AIR, EXHAUST AIR, CHILLED WATER, HOT WATER, STEAM, CONDENSATE, AND CONTROL SYSTEMS) TO FACILITY PHASING REQUIREMENTS WITHOUT INTERRUPTION OF THE HVAC SYSTEMS.

G. PROVIDE A MINIMUM OF FIVE DUCTWORK DIAMETERS OF STRAIGHT DUCT UPSTREAM OF ALL AIR TERMINAL UNITS FOR PROPER FLOW MEASURING AT FLOW SENSOR. A MINIMUM OF 1'-6" SHALL BE PROVIDED IN FRONT OF CONTROL ACCESS ENCLOSURES AT ALL TERMINAL UNITS. NO PIPING OR CONDUIT SHALL BE DIRECTLY INSTALLED BELOW AIR TERMINAL UNIT ACCESS ENCLOSURES THAT WILL PROHIBIT ACCESS UP TO THE CONTROL ENCLOSURE. COORDINATE THESE REQUIREMENTS WITH ALL OTHER TRADES ON THE PROJECT. IF PROPER SERVICE ACCESS IS NOT MAINTAINED BECAUSE OF POOR COORDINATION, THE CONTRACTOR SHALL RELOCATE OBSTRUCTIONS AT NO ADDITIONAL COST TO THE OWNER.

H. PROVIDE A VOLUME DAMPER AT EACH DIFFUSER AND GRILLE FOR PROPER BALANCING REGARDLESS IF SHOWN ON DRAWINGS. ALL VOLUME DAMPERS SHALL BE A MINIMUM OF 6'-0" FROM DIFFUSER OR GRILLE CONNECTION. IF FLEXIBLE DUCTWORK IS UTILIZED FOR FINAL CONNECTION AT GRILLES, THE CROSS SECTIONAL AREA OF THE FLEXIBLE DUCTWORK SHALL NOT BE LESS THAN THE CROSS SECTIONAL AREA OF THE GRILLE NECK. ENSURE ALL VOLUME DAMPER TAGGING IS VISIBLE AFTER INSTALLATION IS COMPLETE.

I. THE CONTRACTOR SHALL PROVIDE MINIMUM 16x16 ACCESS DOORS WITHIN GYPSUM CEILINGS, GYPSUM WALLS AND MASONRY WALLS AT FIRE DAMPERS, SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS TO ALLOW FULL ACCESS TO DUCTWORK MOUNTED ACCESS DOORS FOR SERVICING THE DAMPERS. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR CEILING AND WALL CONSTRUCTION TYPES AND RATING REQUIREMENTS FOR SELECTION OF ACCESS DOOR TYPES. REFER TO SPECIFICATION SECTION 20000 FOR ACCESS DOOR REQUIREMENTS. AT SMOKE DAMPER AND COMBINATION FIRE/SMOKE DAMPER INSTALLATIONS, THE CONTRACTOR SHALL PROVIDE A MINIMUM 16x16 ACCESS DOOR AT THE DUCT MOUNTED SMOKE DETECTORS.

J. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE LOCATIONS OF ALL ROOM TEMPERATURE SENSORS AND OCCUPANCY WITH THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL SCHEDULE A WALK THROUGH WITH THE ARCHITECT/ENGINEER TO LOCATE SENSOR LOCATIONS PRIOR TO INSTALLATION. THE TEMPERATURE SENSORS SHALL BE INSTALLED IN ALIGNMENT WITH ELECTRICAL, FIRE, AND OTHER DEVICES WHEN LOCATED ON COMMON WALLS. THE OCCUPANCY SENSORS SHALL BE INSTALLED IN ORDER TO PROVIDE COMPLETE COVERAGE OF THE WORK AREAS.

K. THE MOUNTING HEIGHT FOR ALL ROOM THERMOSTATS OR SENSORS SHALL BE 48 IN. TO TOP OF THE COVER.

L. DOWNSTREAM REMOTE STATIC PRESSURE SENSORS FOR AIR AND WATER SYSTEMS SHALL BE VISIBLY LABELED AFTER FINAL FINISHES OR CEILINGS ARE INSTALLED TO FACILITATE CALIBRATION/REPAIR.

REGISTER GRILLE AND DIFFUSER SCHEDULE

TYPE	APPLICATION	MATERIAL	FINISH	MANUFACTURER & MODEL No.	REMARKS
1	SUPPLY	STEEL	WHITE	TITUS MODEL FL-25 - 2 SLOT	

CABINET UNIT HEATER SCHEDULE - HOT WATER

UNIT NO.	LOCATION	TYPE	CAPACITY (MBH)	AIR SIDE AIR FLOW (CFM)	AIR SIDE EXT. STATIC (in. WC)	AIR SIDE ENT. AIR TEMP (DEG. F)	AIR SIDE LVG. AIR TEMP (DEG. F)	WATER SIDE FLOW RATE (GPM)	WATER SIDE WATER P.D. (Ft. HD)	WATER SIDE ENT. WATER TEMP (DEG. F)	WATER SIDE LVG. WATER TEMP (DEG. F)	FLUID	VOLTS	PHASE	LENGTH (in.)	HEIGHT (in.)	DEPTH (in.)	MANUFACTURER & MODEL No.	REMARKS
CUH-1	VESTIBULE	INVERTED VERTICAL FLOOR HIDEAWAY	86.4	910	0.0	70	156.8	8.6	6.8	180	160	WATER	208	1	69	25	9.25	IEC MODEL FHY12	
CUH-2	VESTIBULE	INVERTED VERTICAL FLOOR HIDEAWAY	86.4	910	0.0	70	156.8	8.6	6.8	180	160	WATER	208	1	69	25	9.25	IEC MODEL FHY12	
CUH-3	ATRIUM	VERTICAL FLOOR HIDEAWAY	86.4	910	0.0	70	156.8	8.6	6.8	180	160	WATER	208	1	69	25	9.25	IEC MODEL FHY12	
CUH-4	ATRIUM	VERTICAL FLOOR HIDEAWAY	86.4	910	0.0	70	156.8	8.6	6.8	180	160	WATER	208	1	69	25	9.25	IEC MODEL FHY12	

FAN COIL UNIT SCHEDULE - CHILLED WATER

UNIT NO.	LOCATION	TYPE	AIR SIDE AIR FLOW (CFM)	AIR SIDE EXT. STATIC (in. WC)	COOLING COIL CAPACITY SENSIBLE (MBH)	COOLING COIL CAPACITY LATENT (MBH)	COOLING COIL CAPACITY TOTAL (TONS)	EAT (DEG. F) DB	EAT (DEG. F) WB	LAT (DEG. F) DB	LAT (DEG. F) WB	WATER FLOW (GPM)	WATER P.D. (Ft. HD)	ENT. WATER TEMP (DEG. F)	LVG. WATER TEMP (DEG. F)	FLUID	ROWS	VOLTS	PHASE		
FCU-1	VESTIBULE	VERTICAL RECESSED	550	0.0	14250	6077	20327	80	67	56.3	55.1	4.1	10.8	45	55	WATER	4	208	1	IEC MODEL CPY08	
FCU-2	VESTIBULE	VERTICAL RECESSED	550	0.0	14250	6077	20327	80	67	56.3	55.1	4.1	10.8	45	55	WATER	4	208	1	IEC MODEL CPY08	

VAV - SINGLE DUCT - AIR TERMINAL UNIT SCHEDULE - HOT WATER REHEAT

UNIT NO.	SERVICE	MAX AIR FLOW (CFM)	MIN AIR FLOW (CFM)	MIN INLET PRESS AT MAX CFM (in. WC)	INLET SIZE (in.)	RAD N.C. AT 1" S.P.	DISCH N.C. AT 1" S.P.	REHEAT COIL CAPACITY (MBH)	AIR SIDE HEATING AIR FLOW (CFM)	AIR SIDE ENT. AIR TEMP (DEG. F)	AIR SIDE LVG. AIR TEMP (DEG. F)	AIR SIDE AIR P.D. (in\. WC)	WATER SIDE WATER FLOW (GPM)	WATER SIDE WATER P.D. (in. WC)	WATER SIDE ENT. WATER TEMP (DEG. F)	WATER SIDE LVG. WATER TEMP (DEG. F)	ROWS DEEP	FLUID	MANUFACTURER & MODEL No.	REMARKS
SAV-1	2ND FLOOR	2400	750	1.0	16"	18	17	118.6	2400	55	101	0.35	11.9	1.9	180	160	2	WATER	TITUS MODEL DESV	
SAV-2	2ND FLOOR	2100	650	1.0	16"	16	15	109.8	2100	55	103	0.27	11.0	1.6	180	160	2	WATER	TITUS MODEL DESV	

FAN SCHEDULE

UNIT NO.	LOCATION	SERVICE	FAN CHARACTERISTICS TYPE	CFM	S.P. (in. WC)	MAX. BHP	FAN RPM	MAX. TIP SPEED	MAX. OUTLET VELOCITY (FPM)	SONES	DRIVE	MOTOR CHARACTERISTICS RPM	HP	VOLTS	HZ	PHASE	MANUFACTURER & MODEL No.	REMARKS
EF-31	ROOF	SMOKE PURGE	PROPELLER	37500	.5	9.04	618	9707	1878	36	BELT	1725	10	460	60	3	COOK MODEL 60EP624B	
EF-32	ROOF	SMOKE PURGE	PROPELLER	37500	.5	9.04	618	9707	1878	36	BELT	1725	10	460		3	COOK MODEL 60EP624B	

SNOWMELT SCHEDULE

ZONE	LOCATION	PRIMARY AREA (SQ. FT.)	TOTAL FLOW RATE (GPM)	FLOW RATE PER CIRCUIT (GPM)	PRESSURE DROP (FT)	CIRCUIT EWT (DEG. F.)	CIRCUIT LWT (DEG. F.)	TUBE SPACING (IN.)	CICUIT LENGTH (FT.)	NO. OF CIRCUITS	HEATING LOAD (BTUH)	COMMENTS	DESIGN EQUIPMENT
SMZ-1		1170	20			105	85	8			200,000		3/4" REHAU PEX A TUBING
SMZ-2		680	12			105	85	8			120,000		3/4" REHAU PEX A TUBING

PUMP SCHEDULE

PUMP NO.	LOCATION	SERVICE	UNIT TYPE & DESCRIPTION	PUMP CAPACITY FLOW (GPM)	PUMP CAPACITY TOTAL HEAD IN FEET	MAX WWP	MOTOR CHARACTERISTICS RPM	HP	VOLTS	PHASE	STARTER	IMPELLER SIZE (DIA. In.)	FLUID TEMP. (°F)	MIN. PUMP EFF. (%)	MAX. BHP	SUCTION & DISCHARGE SIZES	TRIPLE DUTY VALVE SIZE	SUCTION DIFFUSER SIZE	MANUFACTURER & MODEL No.	REMARKS
ZP-1	GROUND FLOOR	SNOWMELT		20															BELL & GOSSETT	
ZP-2	GROUND FLOOR	SNOWMELT		12															BELL & GOSSETT	

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13

M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

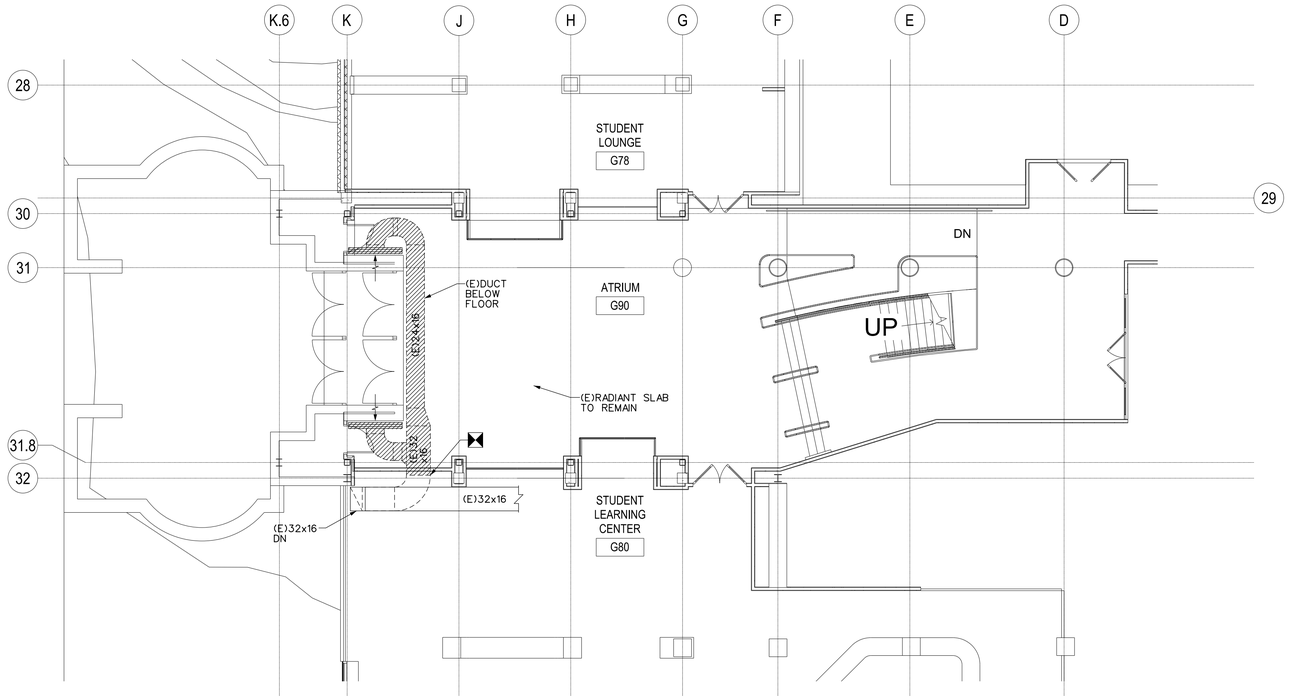
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

GENERAL NOTES & SYMBOLS LIST

H000

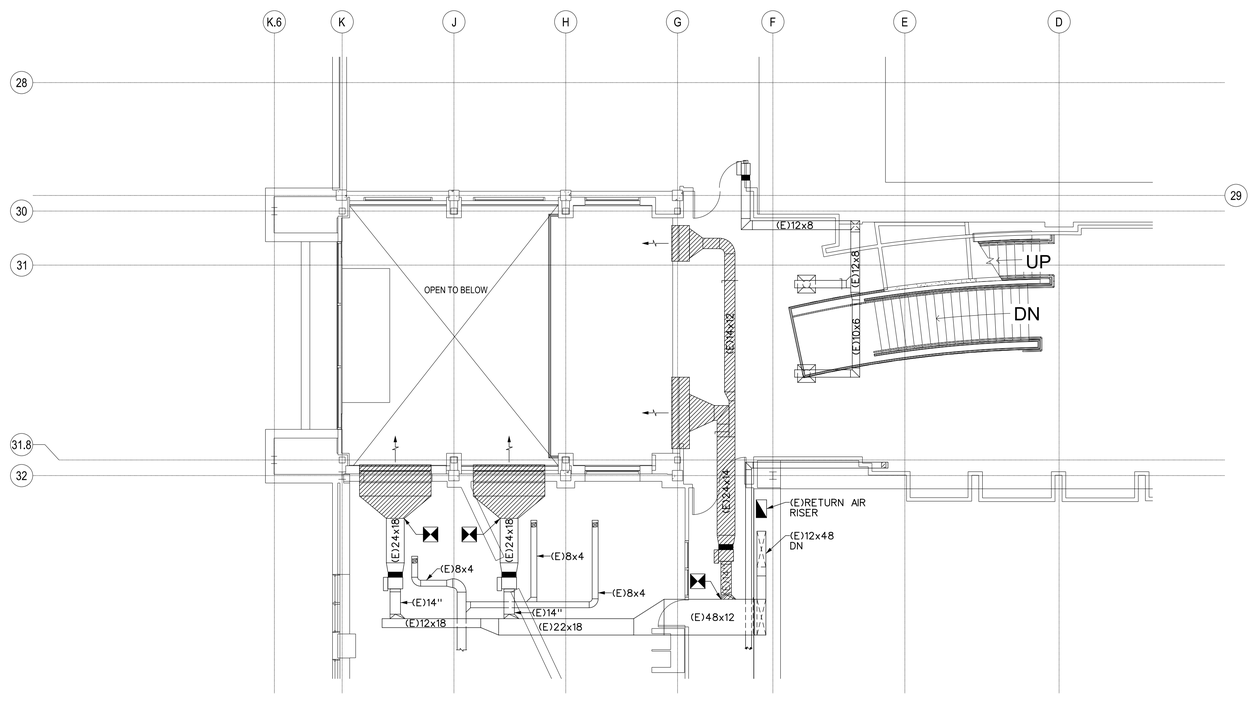


1 H100 GROUND FLOOR PLAN - HVAC DEMOLITION

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

NORTH

0 4' 8' 16'



2 H100 FIRST FLOOR PLAN - HVAC DEMOLITION

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

NORTH

0 4' 8' 16'

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

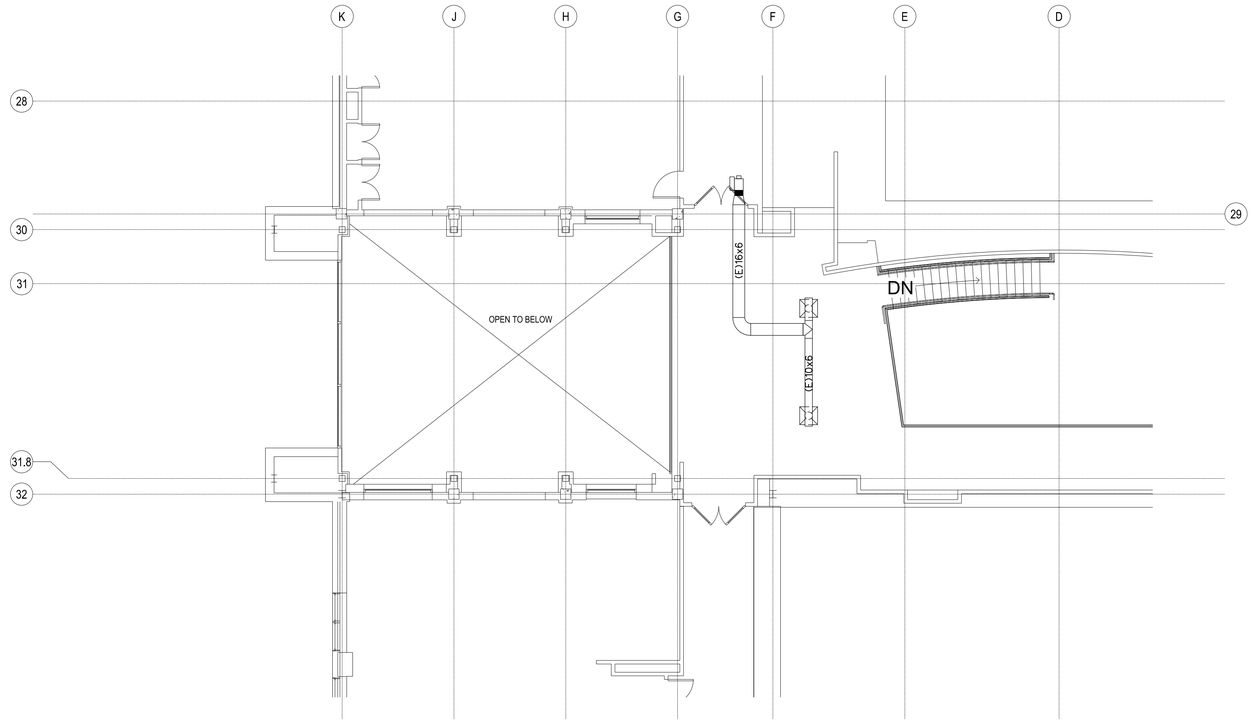
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLANS - HVAC DEMOLITION

H100

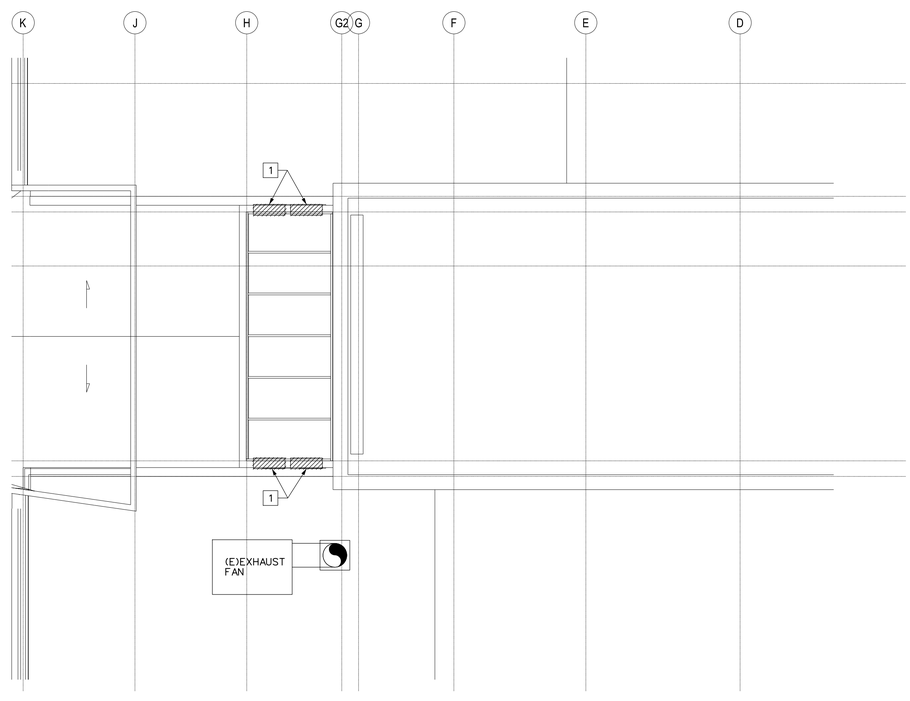


1 H101 SECOND FLOOR PLAN - HVAC DEMOLITION

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

NORTH

0 4' 8' 16'



2 H101 ROOF PLAN - HVAC DEMOLITION

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

NORTH

0 4' 8' 16'

DEMOLITION NOTES:

1 REMOVE EXISTING SMOKE PURGE EXHAUST FAN, ACCESSORIES, AND ASSOCIATED DUCTWORK.

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

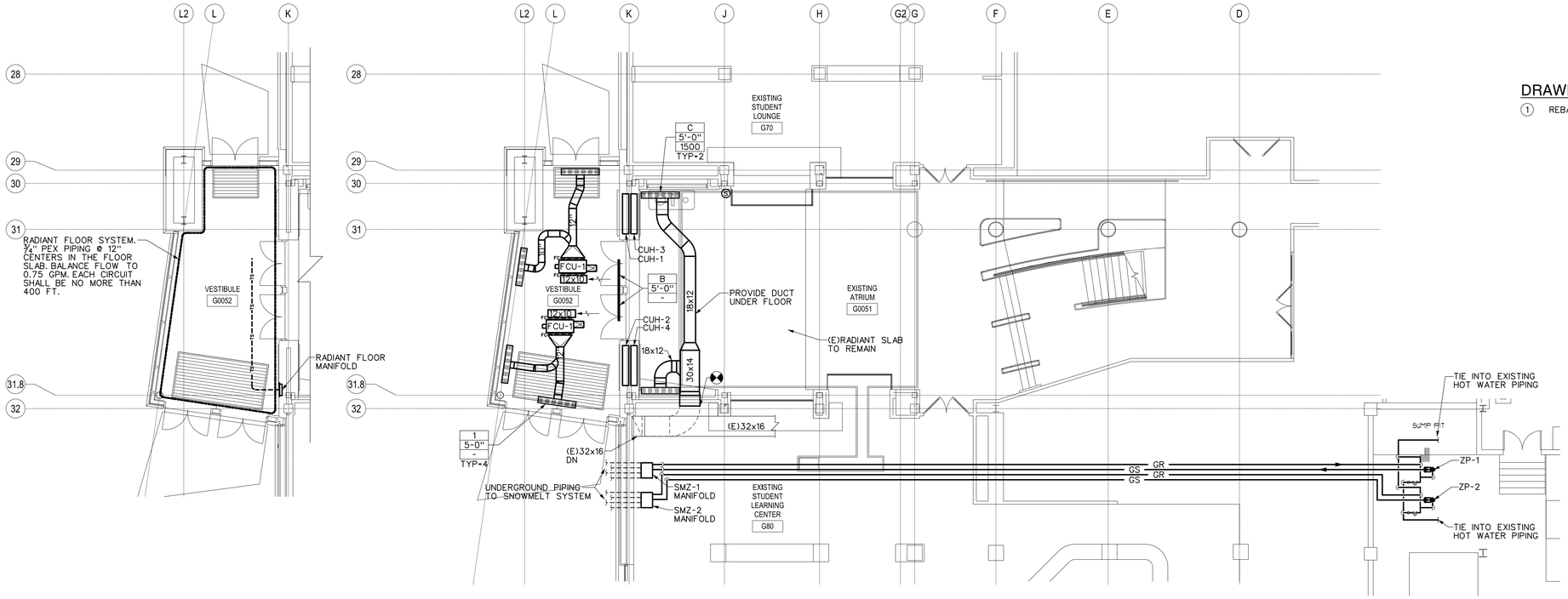
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER - BUFFALO - SYRACUSE - CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLANS - HVAC DEMOLITION

H101



1 H200 GROUND FLOOR PLAN - HVAC NEW WORK

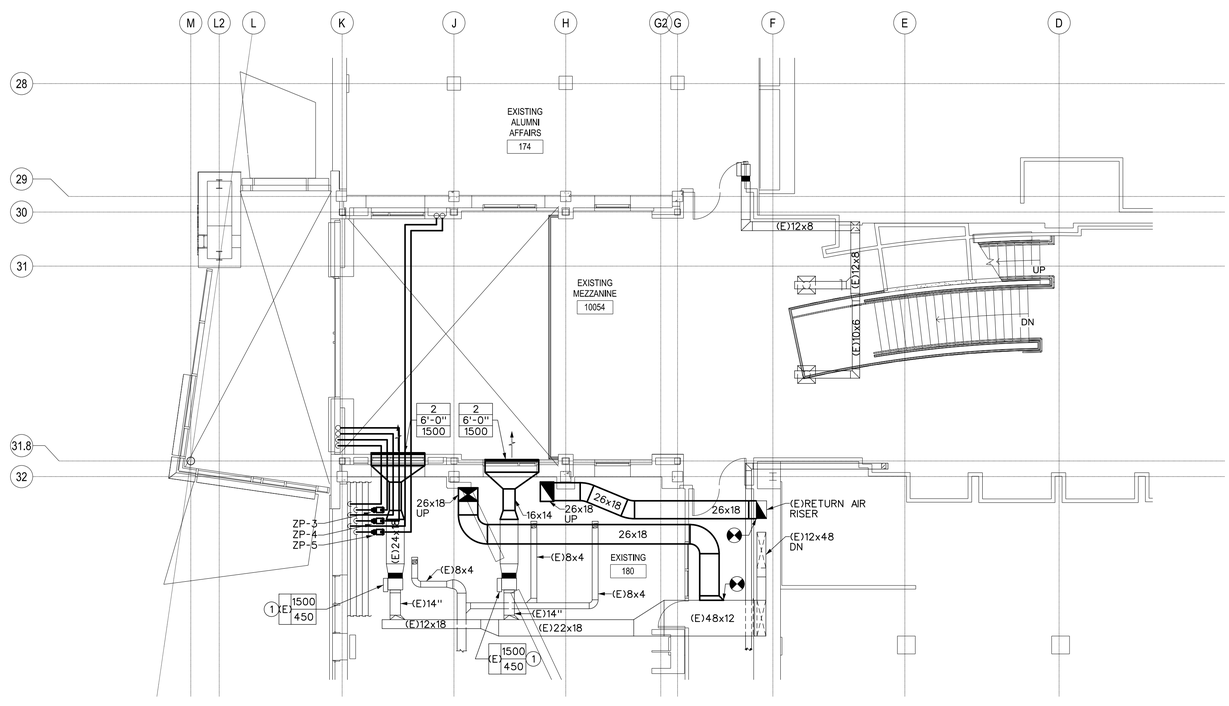
SCALE: 1/8"=1'-0"

NORTH

0 4' 8' 16'

DRAWING NOTES:

1. REBALANCE EXISTING VAV BOX TO NEW AIRFLOW LISTED.



2 H200 FIRST FLOOR PLAN - HVAC NEW WORK

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

NORTH

0 4' 8' 16'

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

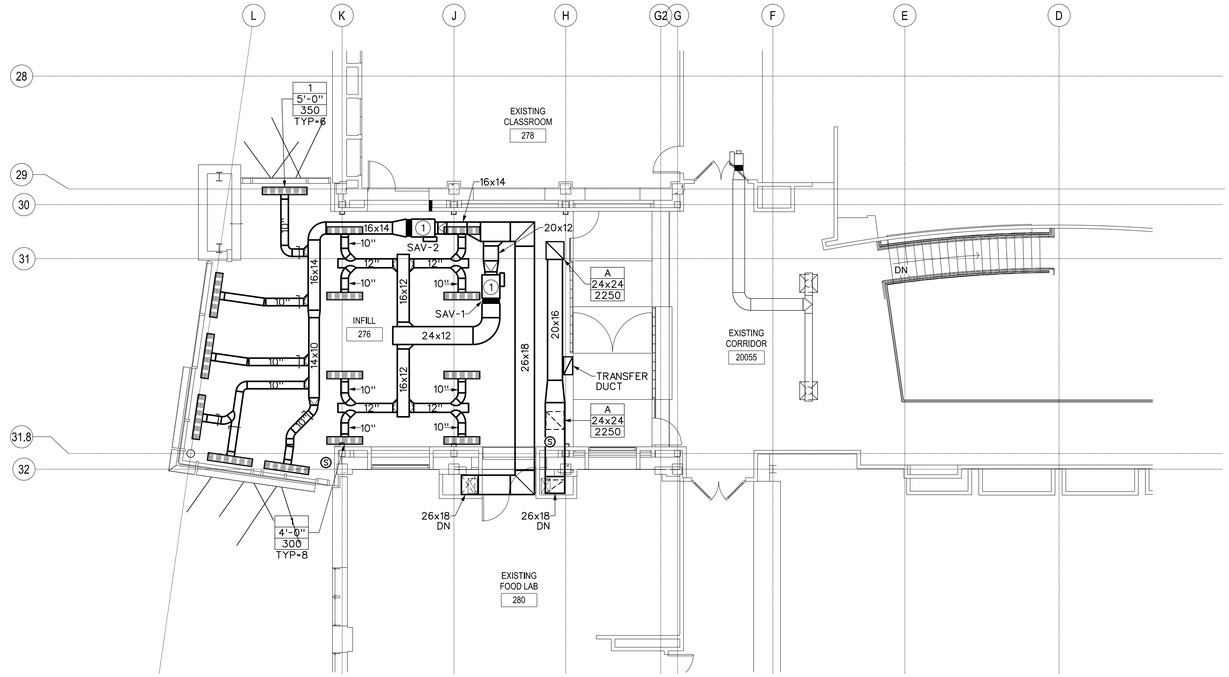
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLANS - HVAC NEW WORK

H200

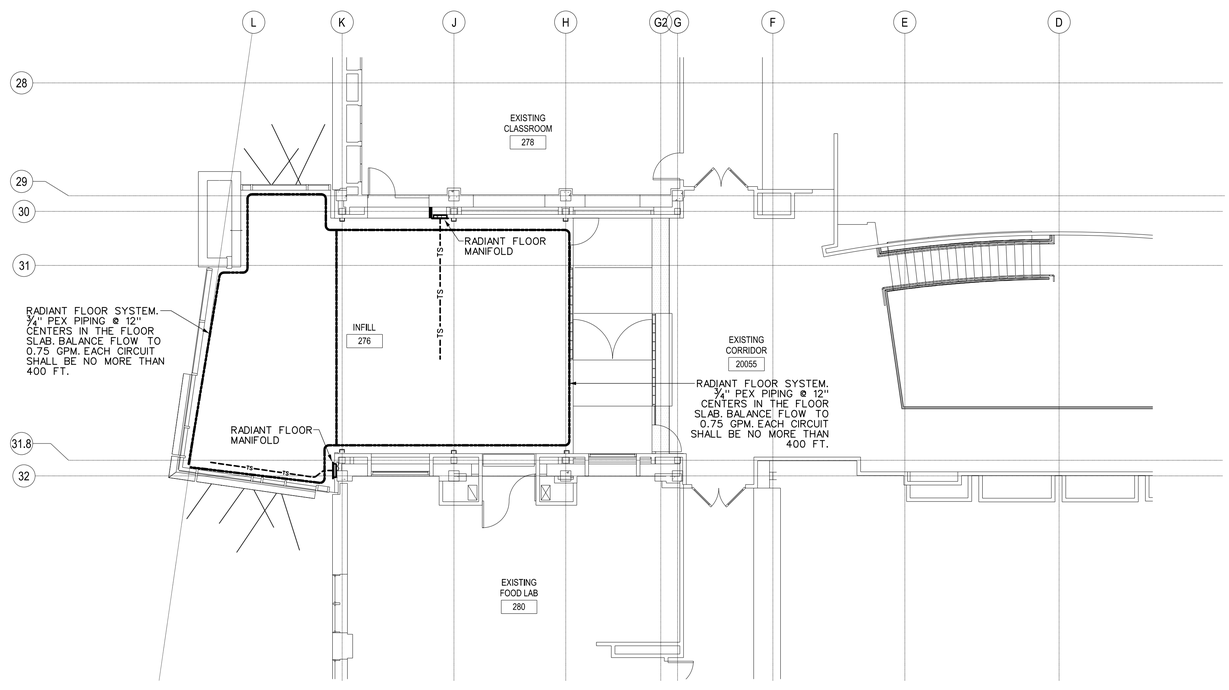


1 H201 SECOND FLOOR PLAN - HVAC NEW WORK - DUCTWORK

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

NORTH

0 4' 8' 16'



2 H201 SECOND FLOOR PLAN - HVAC NEW WORK - PIPING

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

NORTH

0 4' 8' 16'

DRAWING NOTES:

1. PROVIDE NEW SUPPLY AIR VAV BOX WITH FACTORY SOUND ATTENUATOR.

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

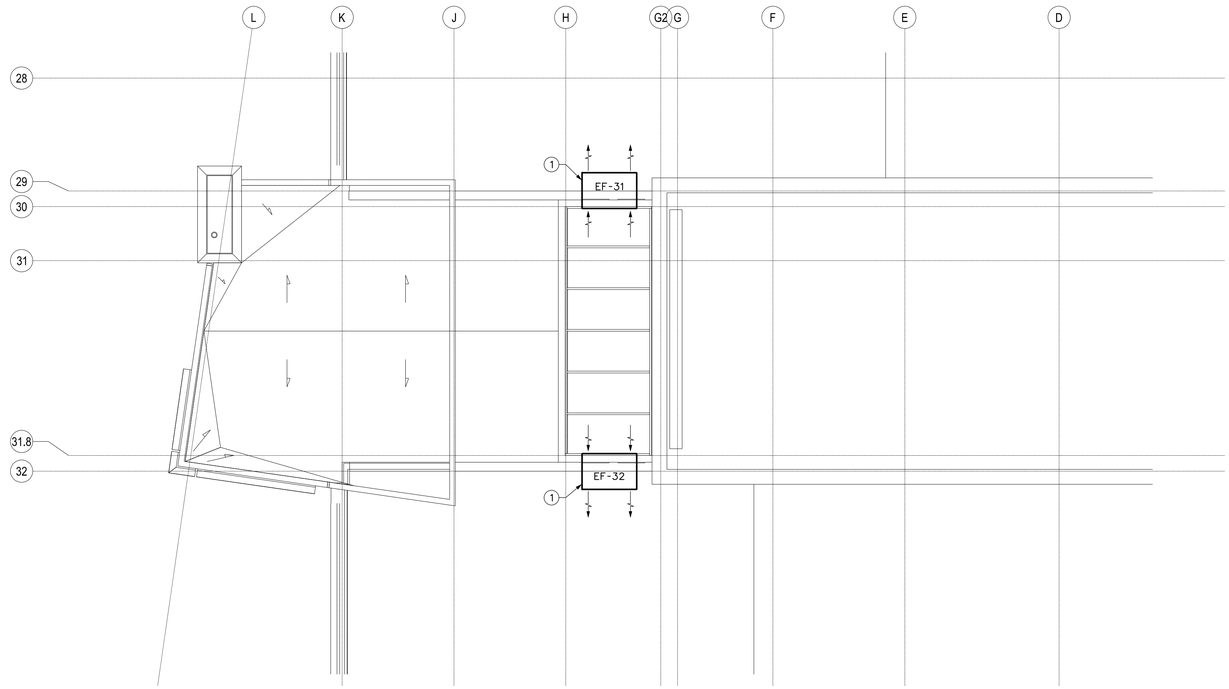
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL
ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLANS -
HVAC NEW WORK

H201



1 H202 ROOF PLAN - HVAC NEW WORK - DUCTWORK

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

NORTH

0 4' 8' 16'

DRAWING NOTES:

1. PROVIDE NEW SMOKE PURGE EXHAUST FAN WITH REQUIRED ACCESSORIES.

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL
ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

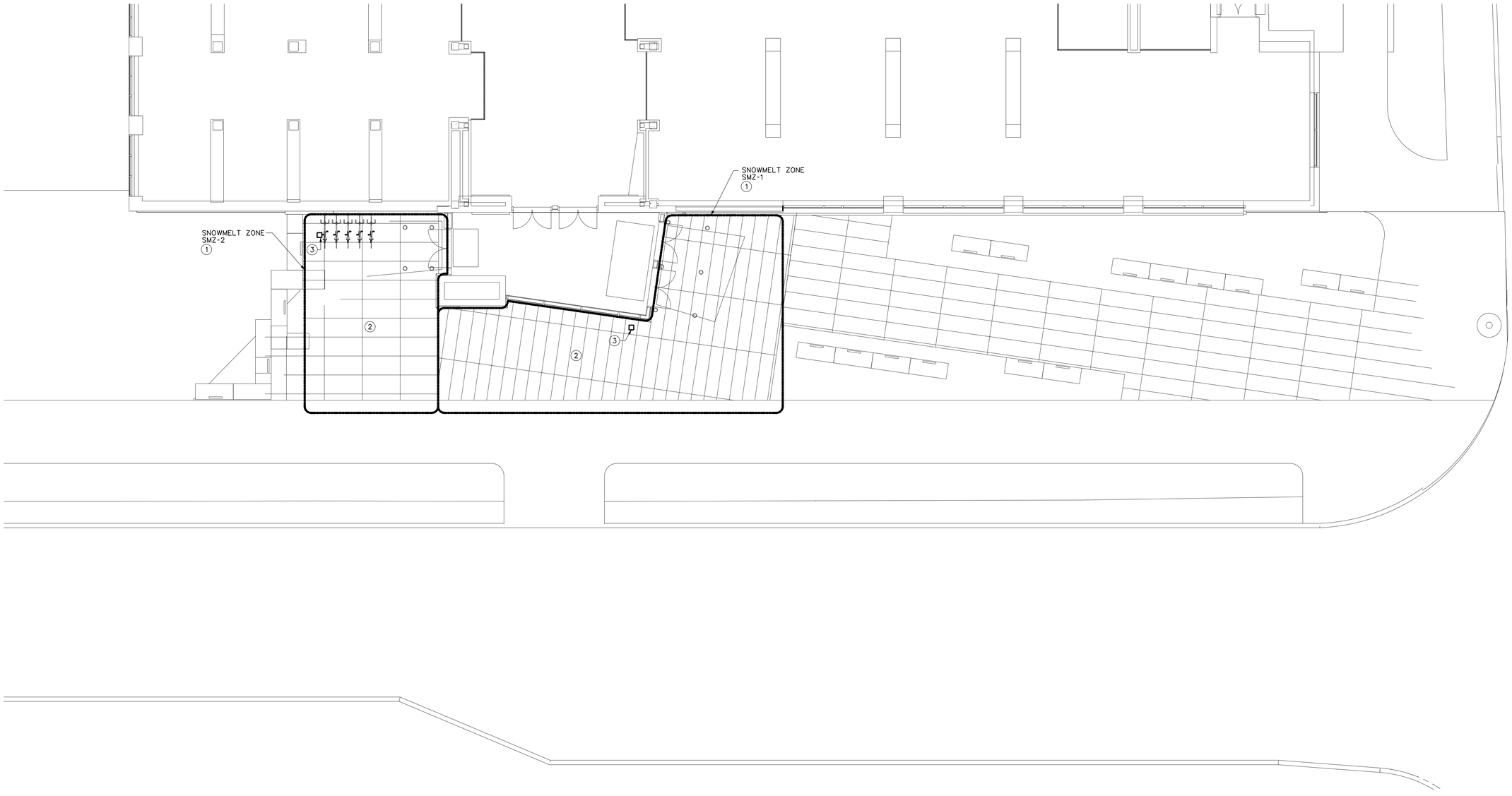
Project No.: 2012.21786
Issued: 10/18/2013

ROOF PLAN - HVAC
NEW WORK

H202

DRAWING NOTES:

1. LIMITS OF SIDEWALK SNOWMELT ZONE. REFER TO SNOWMELT SCHEDULE ON DRAWING H-000 FOR NUMBER OF CIRCUITS AND TUBE SPACING. REFER TO SNOWMELT TUBING INSTALLATION DETAILS ON DRAWING M-400.
2. PROVIDE 2" THICK RIGID BOARD INSULATION WITH VAPOR BARRIER BELOW ALL AREAS OF SNOWMELT. ALL JOINTS AND SEAMS SHALL BE TAPED AND SEALED.
3. SLAB TEMPERATURE SENSOR/MOISTURE SENSOR. DO NOT INSTALL UNDER CANOPY. CONTROL WIRING IN CONCRETE SLAB AND BELOW GRADE SHALL BE IN PVC CONDUIT.



PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

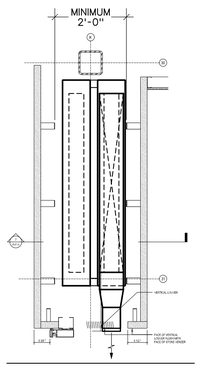
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL
ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

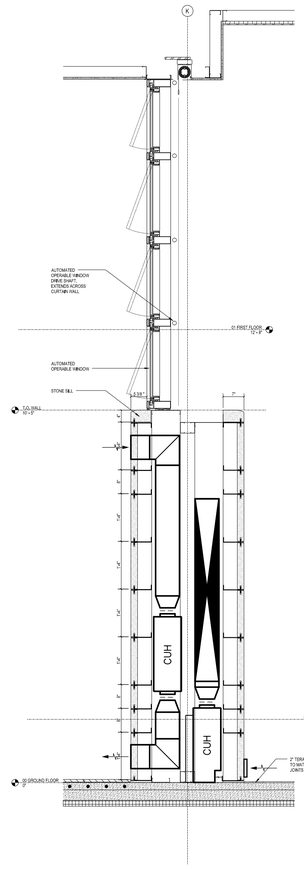
Project No.: 2012.21786
Issued: 10/18/2013

SNOW MELT

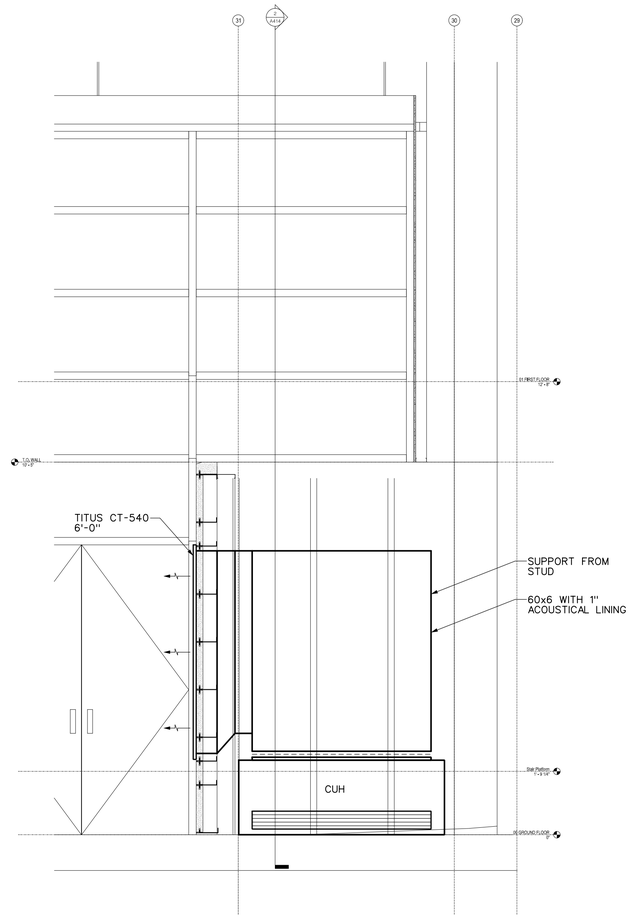
H300



1 H301 VESTIBULE TO ATRIUM WALL DETAIL
NTS



2 H301 SECTION VIEW
SCALE: 1/2"=1'-0"



3 H301 SECTION VIEW
SCALE: 1/2"=1'-0"

NORTH

0 1' 2' 4'

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

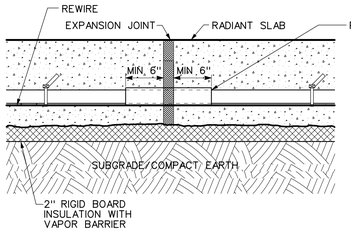
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5550 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

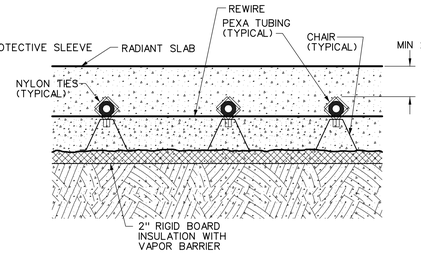
Project No.: 2012.21786
Issued: 10/18/2013

DETAILS - HVAC

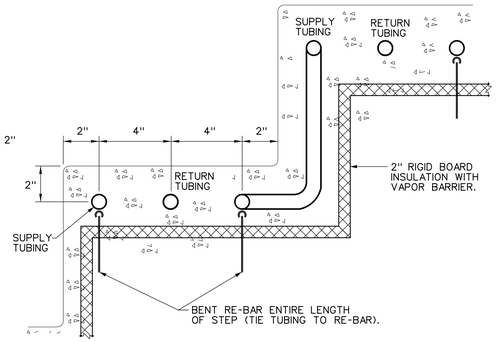
H301



EXPANSION JOINT



CONCRETE SLAB



CROSS SECTION OF STAIR (IF APPLICABLE)

DETAIL NOTES:

A. DO NOT EXCEED THE MINIMUM BEND RADIUS OF THE TUBING.

B. SPACING AS CALLED FOR ON SCHEDULE.

1 / H400	RADIANT SNOWMELT INSTALLATION DETAIL
	SCALE: NONE

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

HVAC DETAILS

H400

SEQUENCE OF OPERATION - RADIANT FLOOR

PART 1 - GENERAL

1.1 GENERAL

A. System shall be controlled through the building automation and control system (BACS).

B. All setpoints shall be adjustable.

C. The BACS shall be capable of retaining its programming and time setting during a loss of power for at least ten hours.

1.2 SETPOINTS

A. Space Cooling Temperature Setpoints:

1. Occupied: 75 deg. F

2. Occupied Setback: 78 deg. F

3. Unoccupied: 81 deg. F

B. Space Heating Temperature Setpoints:

1. Occupied: 65 deg. F

2. Occupied Setback: 61 deg. F

3. Unoccupied: 61 deg. F

1.3 SPACE OCCUPANCY

A. Zone occupancy shall be determined based on a combination of a time of day schedule and a space occupancy sensor.

B. During the scheduled occupancy period, the zone shall be initially indexed to occupied and operate for a minimum of 30 minutes, at which time the space occupancy sensor shall index the space between occupied and occupied setback mode.

C. If the space becomes occupied during the scheduled unoccupied period, as determined via the occupancy sensor, the zone

D. Shall be indexed to occupied for the duration of occupancy. The zone shall index back to unoccupied when occupancy is not sensed for a period of 30 minutes.

E. For zones with multiple spaces, an occupancy sensor shall be provided in each space, and zone occupancy shall be based on occupancy inputs from any of the space occupancy sensors associated with that zone.

1.4 GENERAL OPERATION

A. Pump Operation

1. The zone pump shall be indexed "on" when HWP-2 has been enabled to operate. The zone pump shall be indexed "off" when HWP-2 has been disabled.

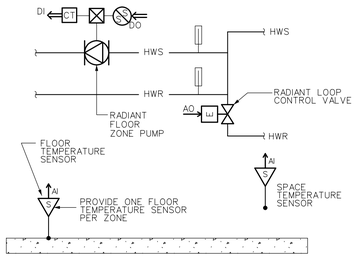
2. When the zone pump has been indexed to operate, it shall run continuously.

3. If the status of the pump is not equal to the commanded value as indicated by the current sensor, an alarm shall be indicated.

B. Zone Operation

1. The 2-way zone valve shall modulate as required to maintain the floor temperature set point as sensed by the floor temperature sensor.

2. The 2-way zone control valve shall index to full closed position and the zone pump shall index off when the space temperature rises above 70.



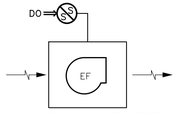
TYPICAL RADIANT ZONE PUMP AND MIXING VALVE DETAIL

POINT SCHEDULE - RADIANT FLOOR SYSTEM

EQUIPMENT	HARDWARE POINTS				SOFTWARE POINTS							SHOW ON GRAPHIC	NOTES
									ALARM				
	BI	BO	AI	AO	AV	BV	SCH	TREND	BACS	EMCS	DESCRIPTION		
PUMP START/STOP		X						X				X	TYP. FOR EACH RADIANT MANIFOLD
PUMP STATUS	X							X	X	X		X	TYP. FOR EACH RADIANT MANIFOLD
RADIANT LOOP MIXING VALVE				X								X	TYP. FOR EACH RADIANT MANIFOLD
RADIANT LOOP SUPPLY TEMPERATURE			X					X				X	TYP. FOR EACH RADIANT MANIFOLD
RADIANT ZONE CONTROL VALVE				X				X				X	TYP. FOR EACH RADIANT MANIFOLD
FLOOR TEMPERATURE			X					X				X	TYP. FOR EACH RADIANT MANIFOLD
SPACE TEMPERATURE SENSOR			X					X				X	

1 H500 RADIANT FLOOR CONTROL SCHEMATIC

SCALE: NO SCALE



TYPICAL SMOKE PURGE EXHAUST FAN

SEQUENCE OF OPERATION - SMOKE PURGE:

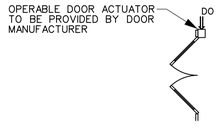
PART 1 - GENERAL

1.1 SYSTEM DESCRIPTION

A. Exhaust Fan

B. Operable Doors

C. Operable Windows



TYPICAL OPERABLE DOOR

TYPICAL OPERABLE WINDOW

Smoke Exhaust and Make-Up Air Sequence of Operation

1. When activated by building smoke/fire system will initiate purge mode.

2. When activated the purge mode will override all other control.

3. AHU-6 RF-2, AHU-14, and RF-14 will shut down. Smoke dampers serving AHU-6 and RF-2 will close.

4. Smoke Dampers SD-1, SD-2, SD-3, SD-4, SD-5, SD-6, SD-7 and SD-8 shall close.

5. All atrium doors are powered open and status confirmed.

6. Smoke exhaust fans EF-31 and EF-32 will start if make-up air doors are open.

7. All smoke purge related equipment requires emergency power.

8. Provide software for manual and automatic testing of smoke purge functions.

2 H500 SMOKE PURGE CONTROL SEQUENCE

SCALE: NO SCALE

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

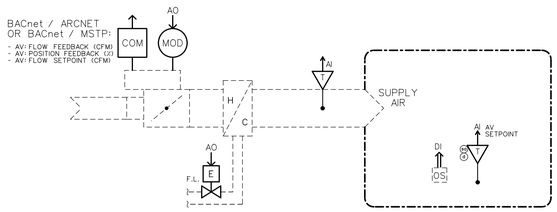
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

CONTROL DRAWINGS - HVAC

H500



SEQUENCE OF OPERATION - SUPPLY VAV

PART 1- GENERAL

1.1 SYSTEM DESCRIPTION

A. Supply air VAV box with hot water reheat coil

1.2 GENERAL

A. System shall be controlled through the building automation and control system (BACS).

B. All setpoints shall be adjustable.

C. The BACS shall be capable of retaining its programming and time setting during a loss of power for at least ten hours.

1.3 SETPOINTS

A. Space Cooling Temperature Setpoints:

1. Occupied: 75 deg. F
2. Occupied Setback: 78 deg. F
3. Unoccupied: 81 deg. F

B. Space Heating Temperature Setpoints:

1. Occupied: 70 deg. F
2. Occupied Setback: 67 deg. F
3. Unoccupied: 64 deg. F

C. Minimum Occupancy Index Time: 30 minutes

D. Zone Occupancy Schedule: 6 AM TO 8 PM, Mon-Fri

1.4 AIRFLOW CONTROL

A. Airflow shall be based on mode. Under normal control, room occupancy shall be determined via room occupancy sensors. All spaces shown on the control diagram must have the same occupancy condition as proven by all the occupancy sensors before switching to unoccupied mode. Only one occupancy sensor in any of the spaces needs to show an occupied condition to switch the zone into occupied mode.

B. The supply air VAV box shall modulate as needed to maintain the occupied supply airflow.

C. When the room is unoccupied, the supply VAV box shall modulate as needed to maintain the specified supply air flow.

1.5 ZONE TEMPERATURE CONTROL

A. Temperature setpoints shall be determined based on a combination of programmed schedule and space occupancy sensors.

B. Occupied Heating: If the space is occupied during the scheduled occupied period and the space temperature falls below the occupied heating temperature setpoint, the reheat control valve shall modulate to maintain the space temperature setpoint. When the space temperature is at setpoint, reheat coil control valve shall be closed. This is typical for each space served by a supply VAV box with reheat coil.

C. Occupied Cooling: The VAV reheat coil control valve shall be commanded closed above a space temperature of 70 deg F. If the space temperature rises above the occupied cooling setpoint, the supply and general exhaust VAV box dampers shall modulate open as required to maintain the space cooling temperature setpoint.

D. Occupied Setback: If the space becomes unoccupied during the scheduled occupied period, the above occupied heating/cooling sequences shall apply, but the space shall be maintained at the occupied setback temperature setpoints.

E. Unoccupied Heating: If the space is unoccupied during the scheduled unoccupied period and the space temperature falls below the unoccupied heating temperature setpoint, the reheat coil control valve shall modulate as required to maintain setpoint.

F. Unoccupied Cooling: If the space temperature rises above the unoccupied cooling setpoint, the supply and general exhaust VAV box dampers shall modulate open as required to maintain the space cooling temperature setpoint. The reheat coil control valve shall be closed when the space is above 70 deg F.

G. If the space becomes occupied during the scheduled unoccupied period, the space shall index to occupied mode for the duration of occupancy. When the space becomes unoccupied again during the scheduled unoccupied period, the space shall index back to unoccupied mode.

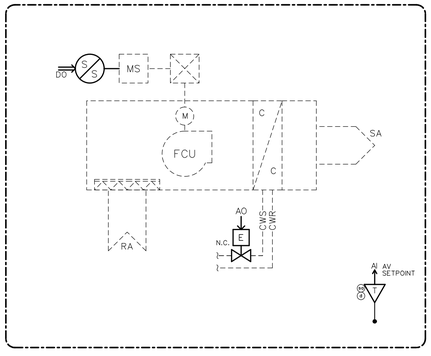
H. If the ventilation VAV box reheat coil has been commanded to its fully closed position and the discharge temperature from the VAV box is above 80 deg F, a heating coil failure alarm shall be indicated at EMCS.

POINT SCHEDULE - VAV W/ REHEAT- TYPICAL

EQUIPMENT	HARDWARE POINTS				SOFTWARE POINTS							SHOW ON GRAPHIC	NOTES
									ALARM				
	DI	DO	AI	AO	AV	BV	SCH	TREND	BACS	EMCS	DESCRIPTION		
SUPPLY VAV BOX DAMPER POSITION COMMAND				X				X				X	
SUPPLY VAV BOX AIRFLOW FEEDBACK (CFM)					X			X	X		10% FLOW DEVIATION FROM SETPOINT	X	BACnet MSTP NETWORK POINT
SUPPLY VAV BOX AIRFLOW SETPOINT (CFM)					X			X				X	BACnet MSTP NETWORK POINT
SUPPLY VAV BOX POSITION FEEDBACK (%)					X			X	X		VALVE COMMAND NOT EQUAL TO FEEDBACK	X	BACnet MSTP NETWORK POINT
REHEAT COIL VALVE POSITION COMMAND				X				X	X		5°F DELTA T ACROSS COIL WITH VALVE COMMANDED CLOSED	X	FAIL LAST
REHEAT COIL LEAVING AIR TEMPERATURE			X					X				X	SINGLE POINT SENSOR
POINT SCHEDULE - SPACE SENSORS- TYPICAL													
SPACE TEMPERATURE SETPOINT					X			X				X	
SPACE TEMPERATURE			X					X				X	
SPACE OCCUPANCY	X							X				X	

1 H-501 TYPICAL SUPPLY VAV BOX CONTROL DIAGRAM

SCALE: NO SCALE



SEQUENCE OF OPERATION - COOLING ONLY FAN COIL

PART 1- GENERAL

1.1 SYSTEM DESCRIPTION

A. Cooling Only Fan Coil Unit

1.2 GENERAL

A. System shall be controlled through the building automation and control system (BACS).

B. All set points shall be adjustable.

C. The BACS shall be capable of starting and stopping the system for seven different daily schedules per week.

D. The BACS shall be capable of retaining its programming and time setting during a loss of power for at least ten hours.

1.3 SETPOINTS

A. Space Cooling Temperature Set points:

1. Occupied: 75 deg F
2. Occupied Setback: 78 deg F
3. Unoccupied: 81 deg F

B. Space Heating Temperature Setpoints:

1. Occupied: 70 deg F
2. Occupied Setback: 67 deg F
3. Unoccupied: 64 deg F

C. Space High Limit Temperature: 85 °F

D. Space Low Limit Temperature: 60 °F

E. Zone Occupancy Schedule: 6 Am To 8 Pm, Mon-Fri

1.4 SPACE OCCUPANCY

A. Zone occupancy shall be determined based on a time of day schedule.

1.5 START/STOP

A. The fan coil unit shall operate whenever the space is in occupied or occupied setback mode.

B. The space sensor shall be provided with a manual override switch to allow the occupant to have the capability of manually selecting fan start/stop. If the system is placed in manual control, system shall revert back to automatic control at the start of the scheduled occupancy period.

C. Manual control shall also be overridden if space conditions rise above the high limit space temperature, if space conditions fall below the low limit space temperature, and if the FCU discharge air temperature falls below the low limit discharge air temperature.

D. The fan coil unit shall also start and operate during unoccupied mode when it is needed to maintain the unoccupied heating and cooling temperature setpoints.

1.6 FAN SPEED CONTROL

A. The fan shall operate at constant speed whenever the system is indexed to operate.

1.7 ZONE TEMPERATURE CONTROL

A. Temperature setpoints shall be determined based on a combination of programmed schedule and a space occupancy sensor.

B. Occupied cooling: if the space is occupied during the scheduled occupied period, the fan is on, and the zone temperature rises above the occupied cooling temperature setpoint, the cooling coil control valve shall modulate to maintain setpoint. If the fan is off and the temperature rises above the space high limit temperature, the BACS shall index the unit to automatic mode if it has been placed in manual mode, the unit shall start, and the cooling coil control valve shall modulate as needed to maintain setpoint.

C. Occupied setback: if the space is unoccupied during the scheduled occupied period, the above occupied heating/cooling sequences shall apply. The space shall be maintained at the occupied setback temperature setpoints.

D. Unoccupied cooling: if the space is unoccupied during the scheduled unoccupied period and the zone temperature rises above the unoccupied cooling temperature setpoint, the BACS shall index the unit to automatic mode if it has been placed in manual, the unit fan shall start, and the cooling coil control valve shall modulate to maintain setpoint.

E. The cooling control valve shall be closed when the fan coil unit fan is off.

POINT SCHEDULE - FAN COIL UNIT - TYPICAL

EQUIPMENT	HARDWARE POINTS				SOFTWARE POINTS							SHOW ON GRAPHIC	NOTES
									ALARM				
	DI	DO	AI	AO	AV	BV	SCH	TREND	BACS	EMCS	DESCRIPTION		
STEAM LOAD SHED						X (6)							BINARY NETWORK INPUTS FROM EMCS
CHILLED WATER LOAD SHED						X (4)							BINARY NETWORK INPUTS FROM EMCS
COOLING COIL CONTROL VALVE POSITION COMMAND				X				X				X	NORMALLY CLOSED
FCU FAN MOTOR START/STOP		X					X	X				X	
POINT SCHEDULE - SPACE SENSORS- TYPICAL													
SPACE TEMPERATURE SETPOINT					X			X				X	
SPACE TEMPERATURE			X					X				X	

2 H501 FAN COIL UNIT CONTROL SEQUENCE

SCALE: NO SCALE

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL
ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

CONTROL DRAWINGS
- HVAC

H501

ELECTRICAL SYMBOLS LIST
BASIC MATERIALS AND METHODS

SYMBOL	DESCRIPTION
LP-404	HOME RUN TO PANELBOARD. LETTERS/ NUMBERS INDICATE PANEL. NUMBERS INDICATE CIRCUITS. NUMBER OF ARROWS EQUALS NUMBER OF CIRCUITS. CIRCUIT SHALL BE 20 AMP 120 VOLT, 2-#12, 1-#12 EG., IN ¾" C, UNLESS NOTED OTHERWISE. BRANCH CIRCUIT WIRING SIZE AND NUMBER TO MATCH HOMERUN. REFER TO SPEC'S FOR RACEWAY TYPE.
	SPECIAL PURPOSE RECEPTACLE. PROVIDE PROPER VOLTAGE, CLASS, CURRENT RATING AND NEMA CONFIGURATION AS REQUIRED BY BRANCH CIRCUIT AND/OR MATCH CAP ON EQUIPMENT BEING FURNISHED BY OTHERS. PROVIDE CORD AND CAP. SUBSCRIPT INDICATES TYPE: T - TWISTLOCK X - MATCH EQUIPMENT CAP
J	JUNCTION BOX
	COMPLETE CONNECTION TO EQUIPMENT
S3,a,c	TOGGLE SWITCH, VOLTAGE AS INDICATED ON FIXTURE SCHEDULE, SUBSCRIPTS INDICATE TYPE: 3 - THREE WAY SWITCH OS - OCCUPANCY SENSOR a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED SWITCHES
	DUPLEX RECEPTACLE, 20 AMP, 125 VOLT SUBSCRIPTS INDICATE TYPE: OC - OVER COUNTER WP - WEATHER PROOF GFI - GROUND FAULT INTERUPT UC - UNDER THE COUNTER
	DUPLEX RECEPTACLE, 20 AMP, 125 VOLT CONNECT TO AN EMERGENCY CIRCUIT
OS	CEILING MOUNTED OCCUPANCY SENSOR (DUAL TECHNOLOGY WITH 360° VIEW) SUBSCRIPTS INDICATE TYPE: U - ULTRASONIC
	DIMMER (INCANDESCENT
	DIMMER (FLUORESCENT)
W	4"x4"x2.5D" BOX WITH A 2-GANG MUD RING & FACEPLATE WITH TRIPLEX DESIGN. 1" CONDUIT EXTENDED TO NEAREST CABLE TRAY OR BDF (UNLESS OTHERWISE NOTED) FOR DATA/VOICE. TERMINATE CONDUIT AT CABLE TRAY WITH CONDUIT BUSHING. PULL (3) CAT 6 CABLES TERMINATE AT PATCH PANEL IN BDF. W - SINGLE GANG BACK BOX WITH MUD RING AND 1" CONDUIT EXTENDED TO NEAREST CABLE TRAY (UNLESS OTHERWISE NOTED) FOR DATA/VOICE. WALL MOUNT AT 46"AFF. PROVIDE (1) CAT 6 CABLE TO BDF. WAP - WALL MOUNT AT 90"AFF 4"x2"x 1-3/4" BOX. 1" EMT CONDUIT EXTENDED TO NEAREST CABLE TRAY (UNLESS OTHERWISE NOTED). PROVIDE ONE(1) CAT 6 UTP CABLE. TERMINATE IN FACEPLATE AND BDF.
	AIR TERMINAL
	SOLID HALF ARROW(S) INDICATES 120 VOLT CIRCUIT TO SINGLE POLE CIRCUIT BREAKER(S), UNLESS NOTED OTHERWISE.
	SOLID FULL ARROW INDICATES 208 VOLT CIRCUIT TO MULTI-POLE CIRCUIT BREAKER, UNLESS NOTED OTHERWISE.
	OPEN HALF ARROW(S) INDICATES 277 VOLT CIRCUIT TO SINGLE POLE CIRCUIT BREAKER(S), UNLESS NOTED OTHERWISE.
	OPEN FULL ARROW INDICATES 480 VOLT CIRCUIT TO MULTI-POLE CIRCUIT BREAKER, UNLESS NOTED OTHERWISE.
DDC	SINGLE GANG BOX WITH BLANK COVER PLATE. PROVIDE½"C STUBBED TO CEILING SPACE ABOVE. DDC ALARM WIRING BY DIV 15A.
CR	CARD READER. DOUBLE GANG BACKBOX WITH 1" CONDUIT TO ELECTRIC ROOM AND TEL/DATA CLOSET.
9" C/T	CABLE TRAY: SIZE AS CALLED FOR ON DRAWINGS
HD	ELECTRONIC HAND TOWEL DISPENSER
	POWER RACEWAY WITH DEVICES AS INDICATED
	COMBINATION POWER AND COMMUNICATION SURFACE RACEWAY WITH DEVICES AS INDICATED
GAA	GENERATOR ALARM ANNUCIATOR
WAP	W- WALL MOUNT AT 90"AFF 4 x 2 x 1-3/4" BOX. 1" EMT CONDUIT EXTENDED TO NEAREST CABLE TRAY (UNLESS OTHER WISE NOTED) TERMINATE CONDUIT WITH CONDUIT BUSHING. PROVIDE ONE (1) CAT 6 UTP CABLE. TERMINATE IN FACEPLATE AND TR PATCH PANEL.
	SINGLE RECEPTACLE 20AMP, 125 VOLT
	FLOOR BOX FSR FL-500P-6 WITH FL-500P-B-C COVER. PROVIDE (2)¾" CONDUITS FOR POWER BACK TO DESIGNATED PANELBOARD AND (1) 1-1/4" CONDUIT FOR TEL/DATA BACK TO NEAREST CABLE TRAY OR PATCH PANEL. PROVIDE (4) DUPLEX RECEPTACLES AND (4) CAT 6 CABLES WITH RJ45 JACKS TO BDF. PULL CAT 6 CABLE TERMINATE AT BDF & RJ45 JACKS.
B	FLOOR BOX FSR FL-500P-6 WITH FL-500P-B-C COVER. PROVIDE (2)3/4" CONDUITS FOR POWER BACK TO DESIGNATED PANELBOARD, (1) 1" CONDUIT FOR A/V BACK UP TO PROJECTOR AND (1) 1-1/4" CONDUIT FOR TEL/DATA BACK TO NEAREST CABLE TRAY OR PATCH PANEL. PROVIDE (2) DUPLEX RECEPTACLES AND (4) CAT 6 CABLES WITH RJ45 JACKS TO BDF. PULL CAT 6 CABLE TERMINATE AT BDF & RJ45 JACKS.
S	CEILING MOUNTED SPEAKER, PROVIDE BOX AS CALLED FOR ON DRAWING ES01 (SPEAKER BY OTHERS)
M	CEILING MOUNTED MICROPHONE, PROVIDE BOX AS CALLED FOR ON DRAWING ES01 (SPEAKER BY OTHERS)

ONE LINE DIAGRAM SYMBOLS

SYMBOL	DESCRIPTION
	NON-FUSED DISCONNECT SWITCH
	THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER
	TRANSFORMER
	TRANSFER SWITCH, RATING AS INDICATED. ATS - AUTOMATIC MTS - MANUAL
	GROUND CONNECTION
	PANELBOARD

FIRE ALARM

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
S	SMOKE DETECTOR SUBSCRIPT "WG" INDICATES WIRE GUARD
H	RATE OF RISE HEAT DETECTOR
F	SPEAKER/STROBE ALARM SIGNAL
F	VISUAL SIGNAL DEVICE
TS	TAMPER SWITCH
WF	SPRINKLER WATERFLOW SWITCH
PS	PRESSURE SWITCH
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATION PANEL
RTS	REMOTE DUCT SMOKE DETECTOR TEST STATION
FSD	FAN SHUT DOWN
DSD	DUCT SMOKE DETECTOR
IAM	INDIVIDUAL ADDRESSABLE MODULE
CZ	CONTROL ZAM
FATN	FIRE ALARM TRANSPONDER NODE
IMM	INTELLIGENT MONITOR MODULE
S IMM	SMOKE DETECTOR WITH "IMM" INDICATES INTELLIGENT MONITORING MODULE
EC	ELEVATOR CAPTURE
SD	SMOKE DAMPER
STX	SMOKE DETECTOR, BEAM TYPE TRANSMITTER
SRX	SMOKE DETECTOR, BEAM TYPE RECEIVER

POWER DISTRIBUTION AND CONTROL

SYMBOL	DESCRIPTION
	DISCONNECT SWITCH AMP RATING AS INDICATED ON ELECTRIC EQUIPMENT AND CONTROL SCHEDULE
M	MOTOR CONNECTION. REFER TO ELECTRIC EQUIPMENT AND CONTROL SCHEDULE FOR SIZE.
	COMBINATION FUSED DISCONNECT SWITCH AND MAGNETIC STARTER AMP RATING AS INDICATED ON ELECTRIC EQUIPMENT AND CONTROL SCHEDULE
VFD	VARIABLE FREQUENCY DRIVE
	208/120 VOLT PANELBOARD
	480 VOLT PANELBOARD

GENERAL CONSTRUCTION SYMBOLS

SYMBOL	DESCRIPTION
(E)	EXISTING DEVICE TO REMAIN
(ER)	EXISTING DEVICE TO BE RELOCATED
,NP ,TP	EXISTING ELECTRICAL OR EQUIPMENT OR DEVICE, DASHED LIGHT IS EXISTING TO BE REMOVED.
,NP	EXISTING WIRING OR EQUIPMENT, SOLID LIGHT IS EXISTING TO REMAIN OR EXISTING TO BE RELOCATED.
,NP	HEAVY SOLID IS NEW

POWER DISTRIBUTION AND CONTROL

SYMBOL	DESCRIPTION
T	TRANSFORMER, REFER TO ONE LINE DIAGRAM AND TRANSFORMER SCHEDULE FOR SIZE AND TYPE
	208/120 VOLT PANELBOARD
	480/277 VOLT PANELBOARD

LUMINAIRES

SYMBOL	DESCRIPTION
FA d	CEILING MOUNTED LUMINAIRE. UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE LETTER INDICATES SWITCHING DESIGNATION.
FA a d	WALL MOUNTED LUMINAIRE. UPPER CASE LETTERS INDICATE FIXTURE TYPE ON SCHEDULE, LOWER CASE LETTER INDICATES SWITCHING DESIGNATION.
NL	LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT 'NL' DENOTES UNSWITCHED
	CEILING MOUNTED EXIT LUMINAIRE
	WALL MOUNTED EXIT LUMINAIRE
	POLE MOUNTED SITE LUMINAIRE

GENERAL DEMOLITION NOTES:

A. WHEN EXISTING CONSTRUCTION, WHICH IS TO REMAIN, IS DAMAGED DURING THE COURSE OF DEMOLITION AS A RESULT OF THE CONTRACTOR'S WORK, IT SHALL BE REPAIRED AND/OR REPLACED WITH SIMILAR OR LIKE MATERIALS, AS MUCH AS POSSIBLE, SUBJECT TO THE OWNERS APPROVAL.

B. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF EXISTING CONSTRUCTION IN THE WAY OF NEW WORK. PROTECT BUILDING AND FURNISHINGS FROM DAMAGE.

C. COORDINATE PHASING OF WORK WITH OWNER'S REPRESENTATIVE.

D. COORDINATE ALL SHUTDOWNS WITH UNIVERSITY PRIOR TO DEMOLITION.

E. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATIONS AND PRIOR CONSTRUCTION DOCUMENTS WHEN AVAILABLE AND ARE NOT GUARANTEED. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE DEMOLITION WORK. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVERS. THIS CONTRACTOR SHALL PARTICIPATE IN SURVEY OF THE EXISTING ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL DISCONNECT AND CAP ALL SERVICE LINES TO BE DISCONNECTED FOR THOSE SERVICES WHICH NORMALLY ARE INCLUDED IN HIS FIELD OF WORK. PARTICULAR CARE SHALL BE TAKEN TO AVOID CREATING HAZARD OR CAUSING DISRUPTION IN ADJOINING AREAS. NOT ALL DEVICES TERMINATIONS, JUNCTION BOXES AND WIRING HAVE BEEN SHOWN.

F. REFER TO PLUMBING CONTRACT DRAWINGS AND SPECIFICATIONS FOR EXACT QUANTITIES AND LOCATIONS OF ALL PLUMBING EQUIPMENT BEING ABANDONED OR REMOVED, WHICH WILL REQUIRE DE-ENERGIZATION, REMOVAL AND BLANK-OFF BY THE ELECTRICAL CONTRACTOR.

G. EXISTING FIRE ALARM SYSTEM SHALL BE KEPT OPERATIONAL DURING THE CONSTRUCTION PERIOD. THE BUILDING UNDER RENOVATION MAY BE DISCONNECTED FROM SERVICE DURING THE HOURS THE CONTRACTOR IS WORKING, AT THE DISCRETION OF THE FIRE DEPARTMENT AND THE OWNER'S REPRESENTATIVE, BUT MUST BE PLACED BACK ON LINE DURING OTHER PERIODS. APPROVAL TO BE IN WRITING.

H. THE EXISTING ELECTRICAL EQUIPMENT AND DEVICES WITHIN DEMOLITION AREA SHALL BE DEMOLISHED ALONG WITH ALL FEEDERS AND CONDUITS BACK TO POINT OF SOURCE UNLESS OTHERWISE NOTED. ALL ITEMS SHOWN ON THE DEMOLITION DRAWINGS SHALL BE DISCONNECTED AND REMOVED UNLESS NOTED OTHERWISE. WALLBOXES, BACKBOXES AND CONDUIT SHALL BE REUSED AS DETERMINED BY CONTRACTOR. ALL UNUSED CONDUITS SHALL BE REMOVED. DISCONNECT AND MAKE SAFE ANY EQUIPMENT TO BE REMOVED BY OTHERS. COORDINATE REMOVAL OF EQUIPMENT WITH OTHER TRADES PRIOR TO DEMOLITION.

I. MAINTAIN AND RESTORE, IF INTERRUPTED BY REMOVALS OR IN PATH OF NEW CONSTRUCTION, ALL CIRCUITS, CONDUITS AND FEEDERS PASSING THROUGH AND SERVING UNDISTURBED AREAS (SHOWN OR NOT SHOWN).

J. ALL EXISTING CONDUITS STUBBED THROUGH FLOOR SERVING ITEMS TO BE REMOVED AND NOT SHOWN OR REQUIRED TO BE REUSED, SHALL BE CUT OFF FLUSH WITH SLAB LEVEL WITH CONCRETE.

K. IN ANY AREA REQUIRING THE PERFORMANCE OF ANY TRADE'S WORK, THIS CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ANY OR ALL ELECTRICAL ITEMS IN PATH OF WORK, REINSTALLING AND RECONNECTING SAME AS REQUIRED, IN ACCORDANCE WITH THE PLANS AND/OR AS DIRECTED AFTER COMPLETION OF OTHER TRADE'S WORK IN THAT AREA.

L. INVENTORY MAJOR ELECTRICAL ITEMS THAT ARE REMOVED AND PROVIDE A LIST TO THE OWNER FOR THEIR SELECTION OF ITEMS TO BE RETAINED. TURN OVER TO OWNER THE EXISTING ZONED "FACP" AND EXISTING FIRE ALARM DEVICES INDICATED TO BE REMOVED UNLESS OTHERWISE INDICATED. ALL ITEMS REJECTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

M. DISCONNECT, MAKE SAFE AND REMOVE ALL TEMPORARY AND ABANDONED WIRE WITHIN THE SPACE.

N. BRANCH CIRCUIT WIRING TO DEVICES IN AREAS OF DEMOLITION SHALL BE DISCONNECTED, MADE SAFE AND REMOVED COMPLETELY BACK TO THE PANELBOARD. THE CONTRACTOR SHALL NOT ABANDON BRANCH CIRCUIT WIRING IN EXISTING WALLS AND CEILINGS. MAINTAIN THE CONTINUITY OF BRANCH CIRCUIT WIRING TO ANY AREAS WHICH ARE TO REMAIN BUT ARE AFFECTED BY THE DEMOLITION OR NEW CONSTRUCTION.

O. DISCONNECT AND REMOVE PANEL, FEEDERS AND BRANCH CIRCUITS BACK TO POINT OF SOURCE PRIOR TO THE START OF DEMOLITION, CONTRACTOR SHALL FIELD VERIFY ALL BRANCH CIRCUITS AND MAINTAIN THOSE CIRCUITS THAT EXTEND OUTSIDE OF THE SCOPE OF WORK.

P. AFTER RENOVATING EXISTING ELECTRICAL WORK, THE CONTRACTOR SHALL INSURE THAT ALL REMAINING AND NEW EQUIPMENT WILL OPERATE PROPERLY.

GENERAL NOTES:

A. SLEEVE AND SEAL ALL WALL AND FLOOR PENETRATIONS. PROVIDE FIRESTOPPING FOR ALL FIRE-RATED PENETRATIONS. UTILIZE REMOVABLE FIRESTOPPING MATERIAL AT CABLE TRAY PENETRATIONS. PROVIDE ACOUSTICAL SEALANT FOR ALL NON RATED PENETRATIONS. ALL FIRE RATINGS SHALL BE MAINTAINED.

B. MAINTAIN SERVICE CLEARANCES OF ALL EQUIPMENT.

C. COORDINATE EXACT LOCATION OF ALL CONDUIT ROUTES, EQUIPMENT AND DEVICES WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

D. MINIMUM CONDUIT SIZE SHALL BE ¾" FOR POWER CIRCUITS UOI.

E. PROVIDE NYLON PULLSTRING IN ALL EMPTY CONDUITS.

F. FIRE ALARM SIGNALING APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 INCHES AND NOT GREATER THAN 96 INCHES ABOVE THE FINISHED FLOOR.

G. CIRCUITING TO DEVICES/EQUIPMENT SHALL BE 2-#12AWG & 1-#12EG (MULTIPLE HOME RUNS IN SAME CONDUIT MAY SHARE SAME EQUIPMENT GROUND) FOR EACH 20 AMPERE CIRCUIT UNLESS OTHERWISE NOTED. ALL CIRCUITS SHALL HAVE SEPARATE NEUTRALS (CIRCUITS SHALL NOT SHARE NEUTRALS).

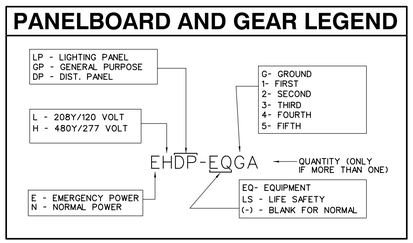
H. PROVIDE CONDUIT/WIRING (CIRCUITING) AND REQUIRED EQUIPMENT CONNECTIONS TO ALL DEVICES/EQUIPMENT. CONNECT TO CIRCUIT(S) AS INDICATED.

I. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA CODES, FIRE CODE OF NEW YORK STATE, BUILDING CODE OF NEW YORK STATE AND CORNELL UNIVERSITY DESIGN STANDARDS.

J. ALL CONDUITS AND SUPPORTS SHALL BE AS TIGHT TO DECK AS POSSIBLE.

K. PROVIDE PULLBOX FOR EVERY 180° OF BENDS FOR TEL/DATA AND 360° OF BENDS FOR POWER CONDUITS.

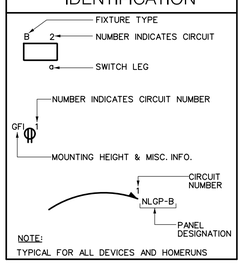
PANELBOARD AND GEAR LEGEND



ABBREVIATIONS

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
A.	AMPERE	NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	OC	MOUNTED OVER COUNTER HEIGHT
AFG	ABOVE FINISHED GRADE	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
AWG	AMERICAN WIRE GAGE	PNL.	PANEL
BMGB	BUILDING MAIN GROUND BAR	PH.	PHASE
CB	CIRCUIT BREAKER	PP	POWER PANEL
CLG.	CEILING	P.	POLE
C.	CONDUIT	REFRIG.	REFRIGERATOR
CR	CRITICAL BRANCH	SP.	SPACE
EG	EQUIPMENT GROUND	SW.	SWITCH
EXIST.	EXISTING	TMGB	TELECOMMUNICATIONS MAIN GROUND BAR
EQ	EQUIPMENT BRANCH	TSP	TWISTED SHIELDED PAIR
FCU	FAN COIL UNIT	TYP.	TYPICAL
GND.	GROUND	UC	MOUNTED UNDER COUNTER HEIGHT
GFI	GROUND FAULT INTERRUPTING	UOI	UNLESS OTHERWISE INDICATED
HP.	HORSEPOWER	VAV	VARIABLE AIR VOLUME
KW.	KILOWATT	V.	VOLT
LS	LIFE SAFETY BRANCH	WP	WEATHERPROOF
MCB	MAIN CIRCUIT BREAKER	3P,15A	P - POLE A - AMPERE
MICRO	MICROWAVE	4 W.	WIRE
MLO	MAIN LUG ONLY		

BRANCH CIRCUITING IDENTIFICATION



NOTE:
TYPICAL FOR ALL DEVICES AND HOMERUNS

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

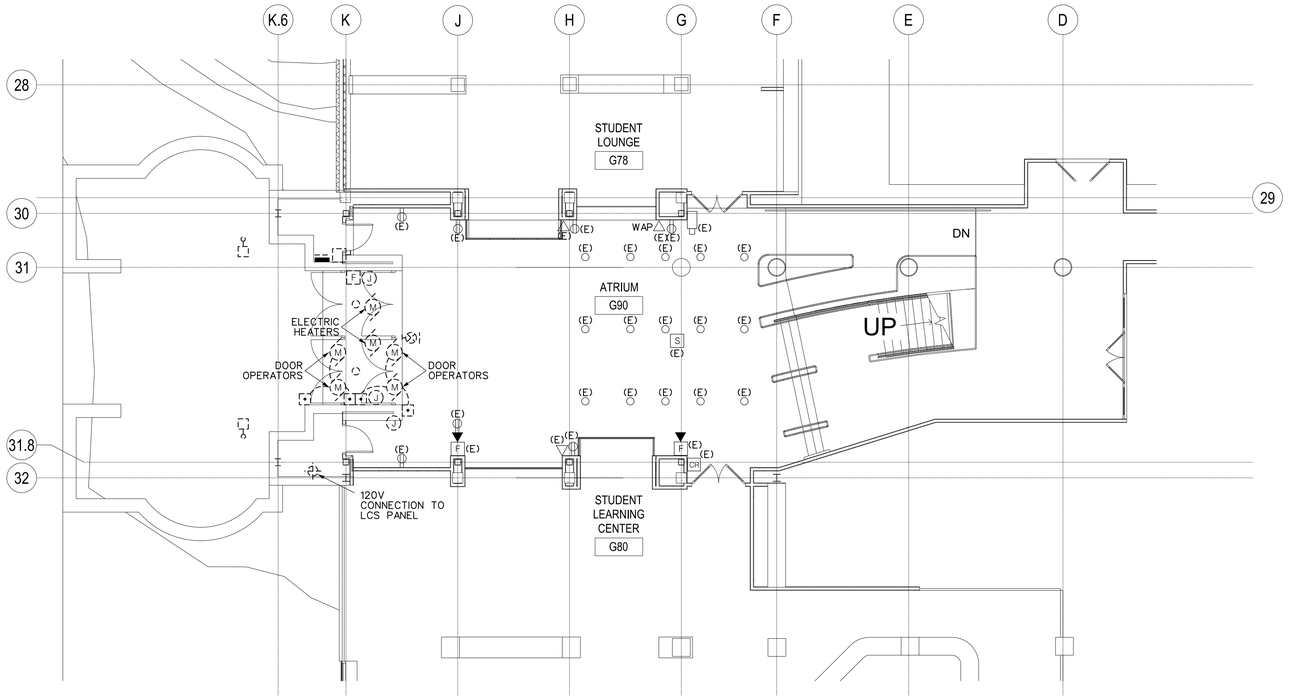
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

SYMBOLS & GENERAL NOTES

E000

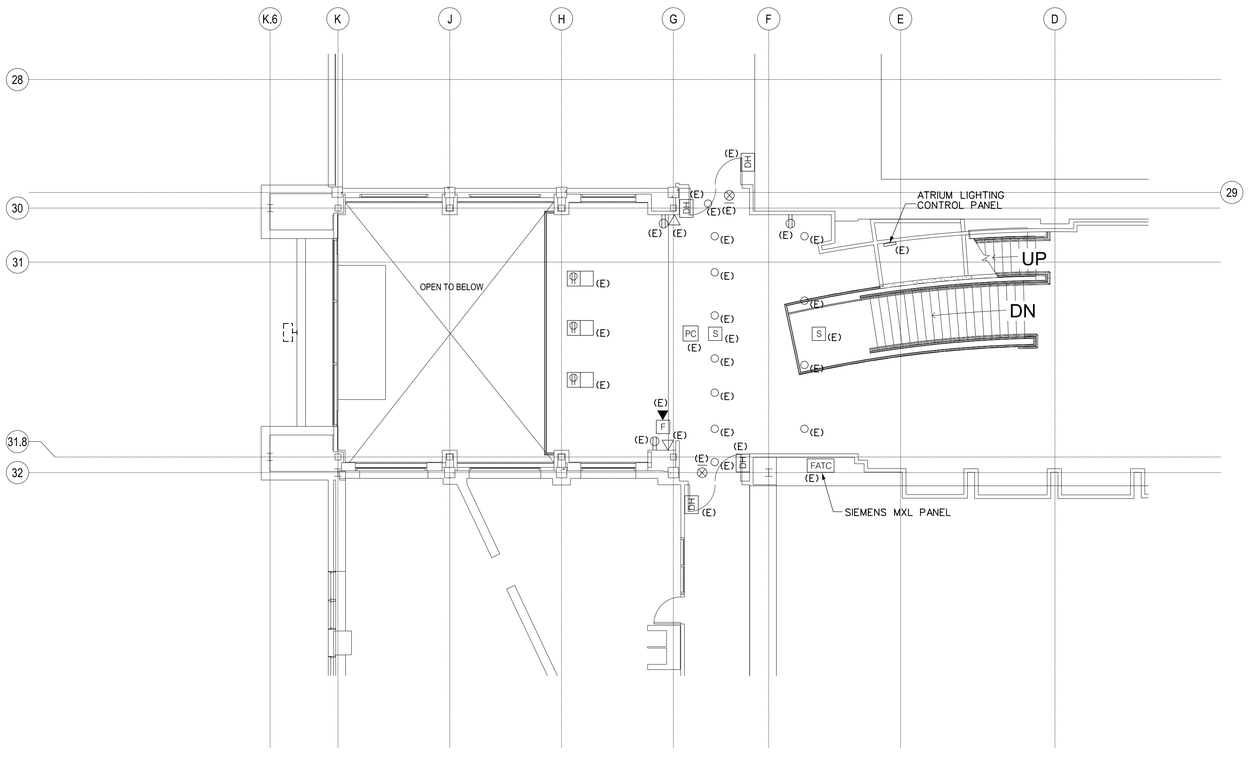


2 ED100 GROUND FLOOR ELECTRICAL - DEMO PLAN

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

NORTH

0 4' 8' 16'



1 ED100 FIRST FLOOR ELECTRICAL - DEMO PLAN

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

NORTH

0 4' 8' 16'

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

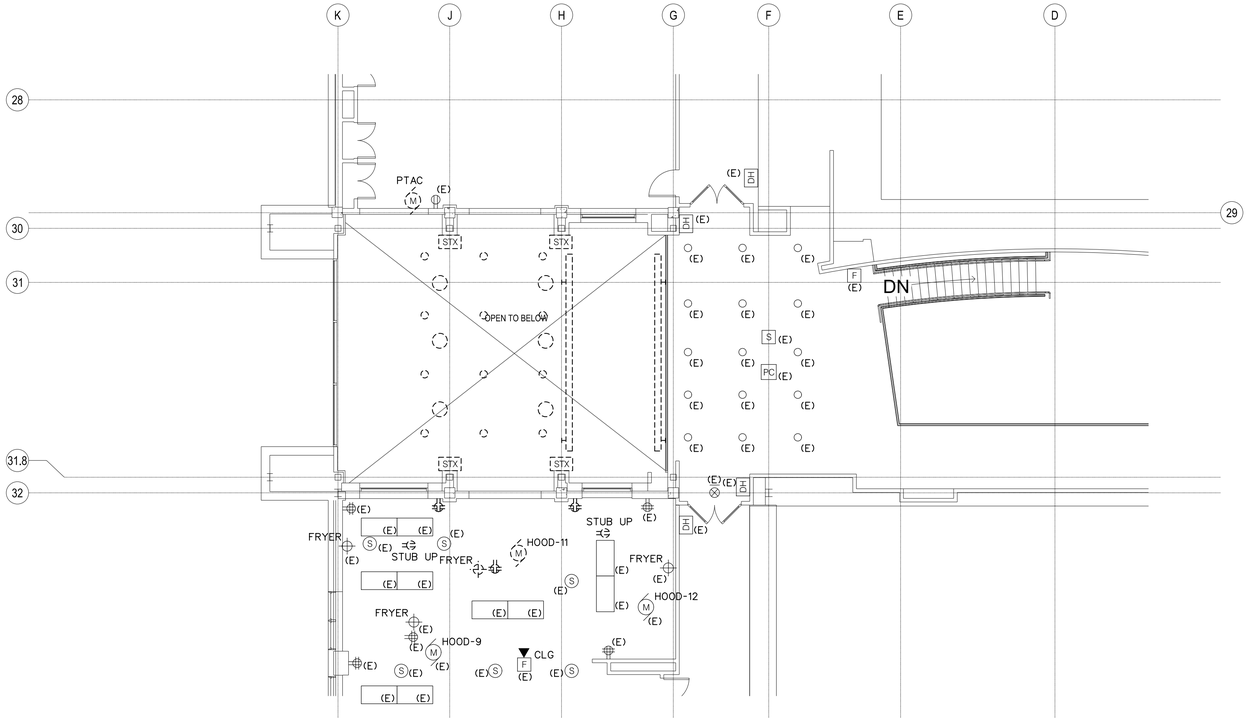
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLAN - ELECTRIAL DEMO

ED100



GENERAL NOTES:

A. DISCONNECT AND REMOVE AND TURN OVER TO OWNER THE (6) PENDANT LIGHTS FROM THE ATRIUM.

DEMOLITION NOTES:

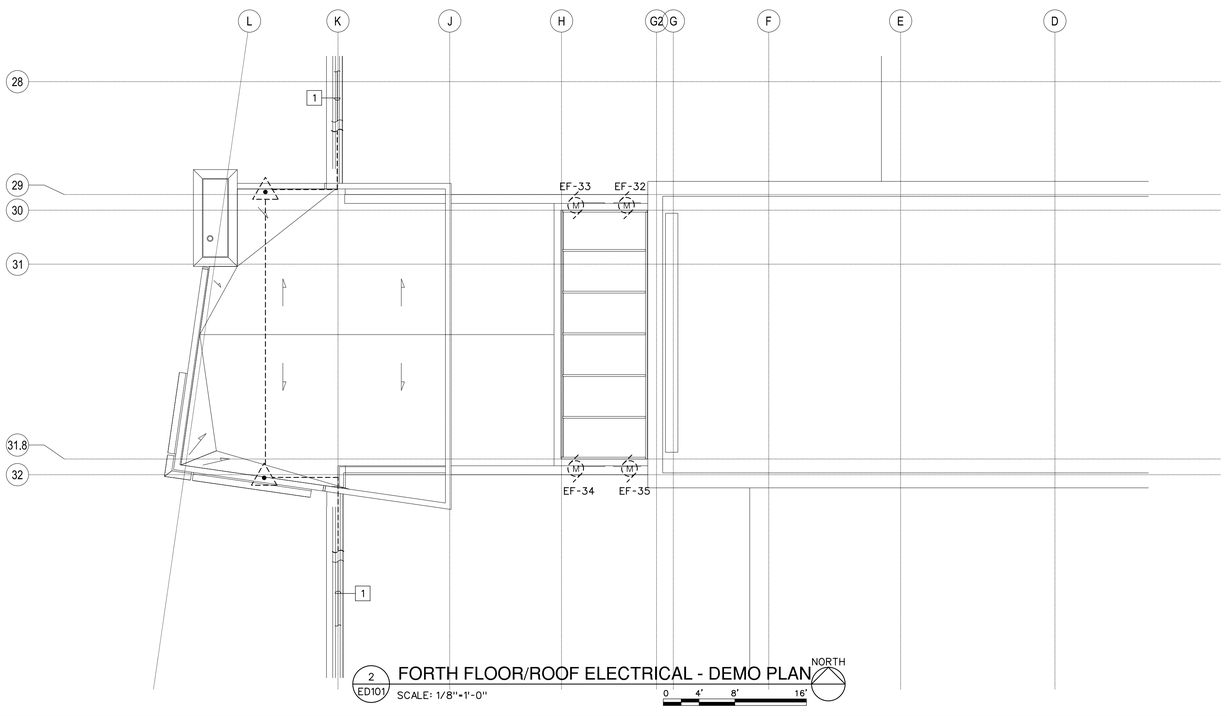
1. EXISTING LIGHTNING PROTECTION SYSTEM TO REMAIN AT ROOF.
2. EXISTING LIGHTNING PROTECTION SYSTEM TO BE REMOVED AND SALVAGED FOR REUSE AS MUCH AS POSSIBLE AT ROOF.

1 ED101 SECOND FLOOR ELECTRICAL - DEMO PLAN

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

NORTH

0 4' 8' 16'



2 ED101 FORTH FLOOR/ROOF ELECTRICAL - DEMO PLAN

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

NORTH

0 4' 8' 16'

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

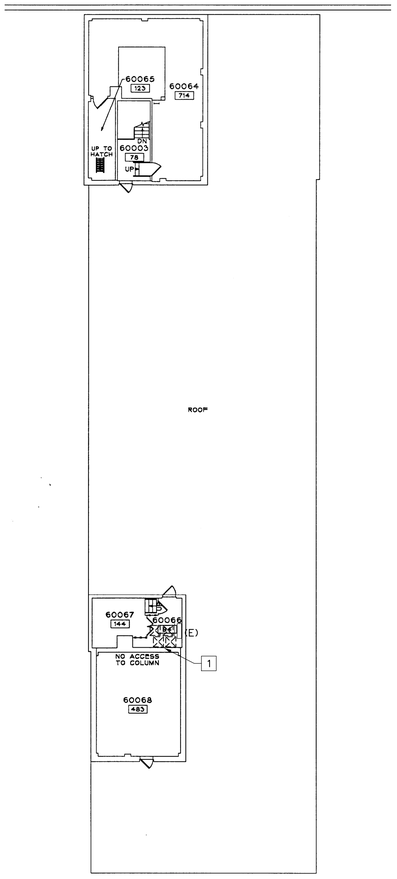
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLAN - ELECTRIAL DEMO

ED101



1 ED102 SIXTH FLOOR ELECTRICAL - DEMOLITION

SCALE: 1/16"=1'-0"

NORTH

0 8' 16' 32'

DEMOLITION NOTES:

1 EXISTING EF-32, EF-33, EF-34 AND EF-35 SMOKE PURGE FAN STARTERS TO BE REMOVED.

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

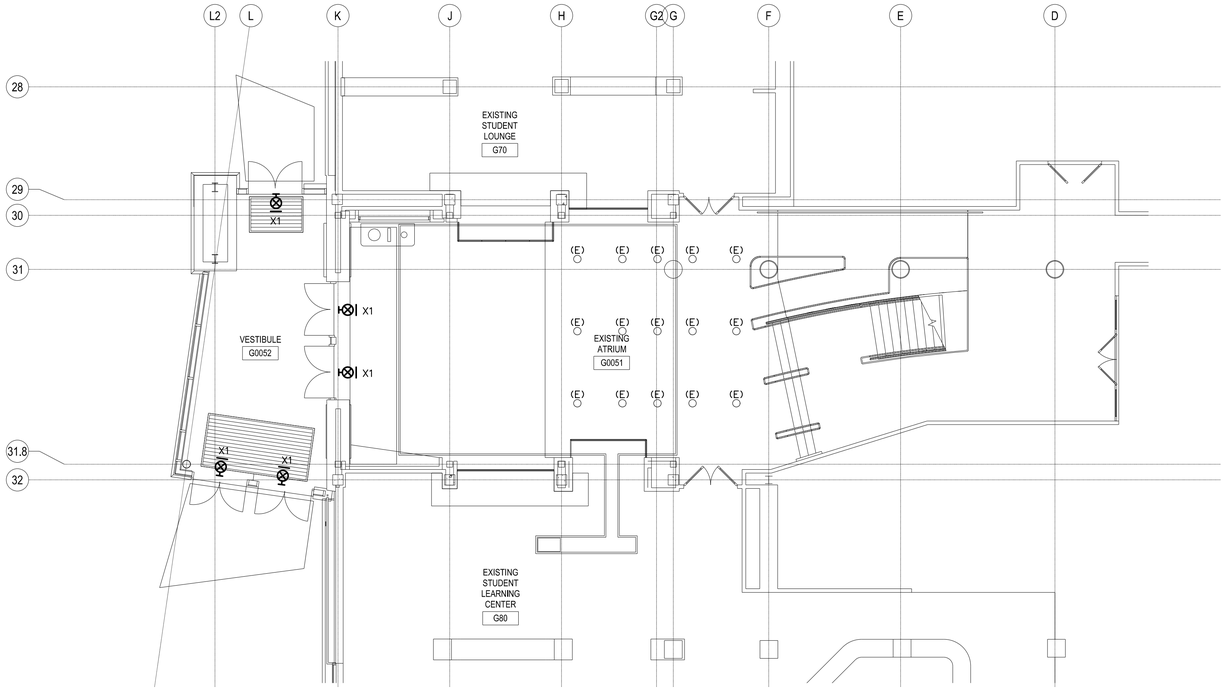
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLAN - ELECTRIAL DEMO

ED102

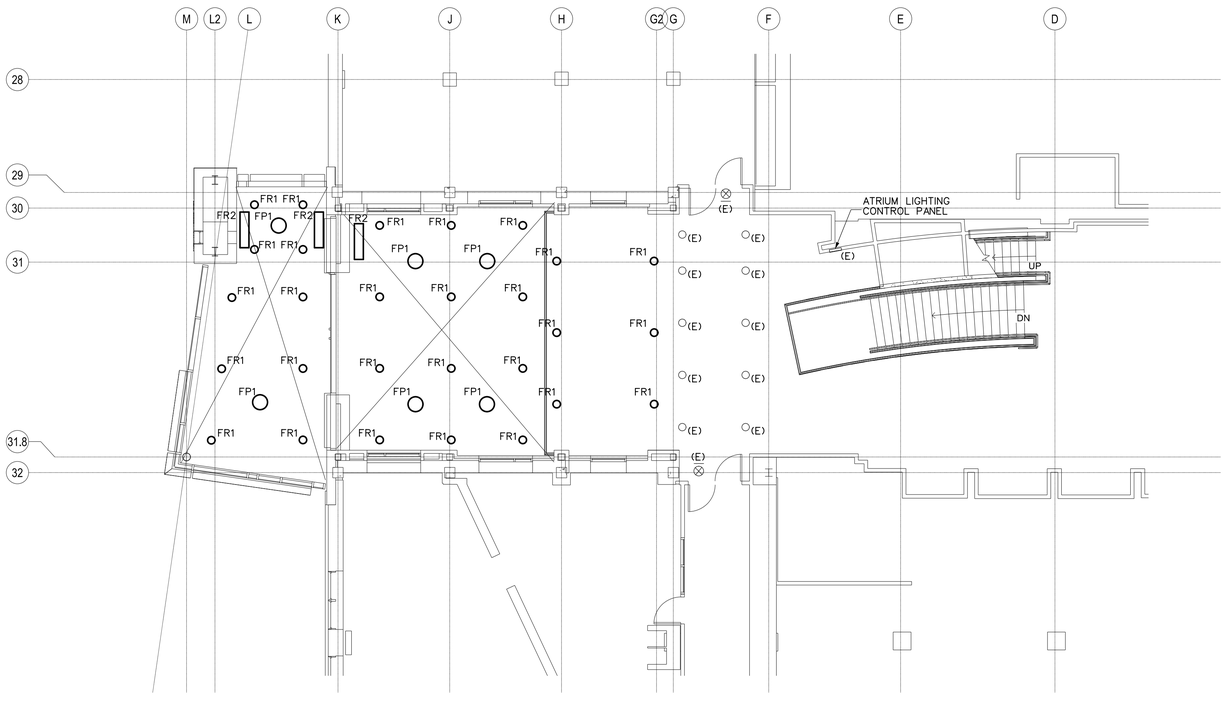


1 EL100 GROUND FLOOR LIGHTING PLAN - NEW WORK

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

NORTH

0 4' 8' 16'



2 EL100 FIRST FLOOR LIGHTING PLAN - NEW WORK

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

NORTH

0 4' 8' 16'

GENERAL NOTES:

A. ALL NEW LIGHT FIXTURES SHALL BE TIED INTO EXISTING CIRCUITS AND CONTROLS.

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

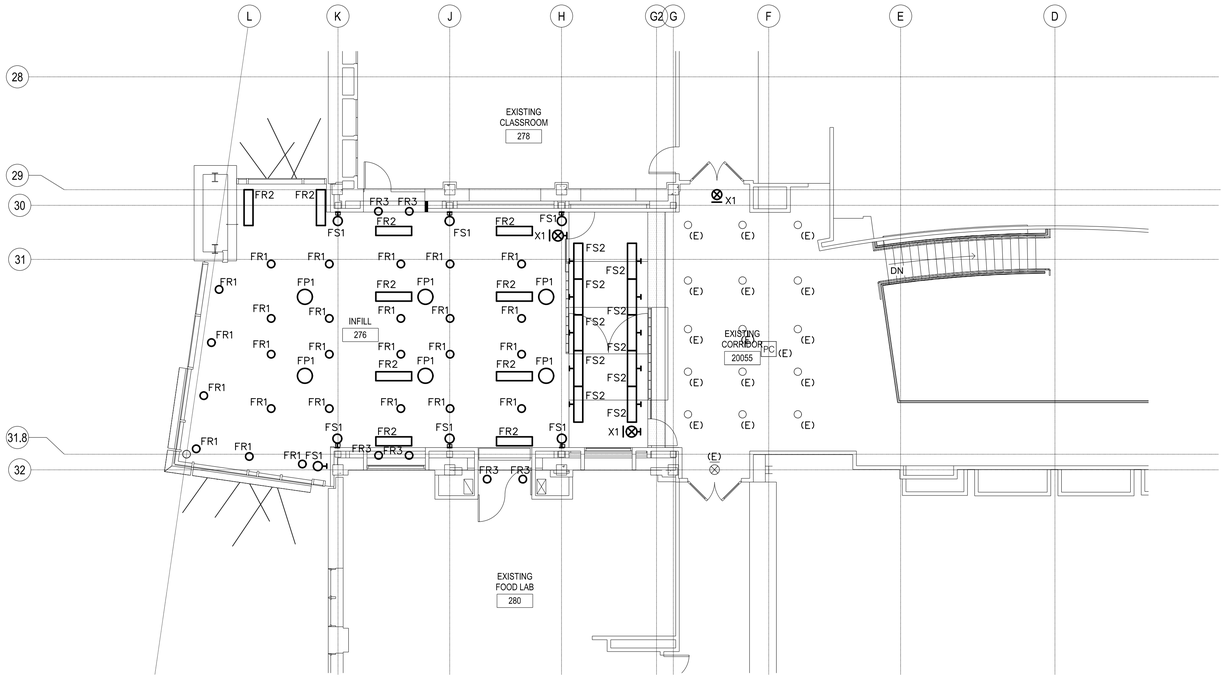
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER - BUFFALO - SYRACUSE - CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLAN - LIGHTING NEW WORK

EL100



1 EL101 SECOND FLOOR LIGHTING PLAN - NEW WORK

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

NORTH

0 4' 8' 16'

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

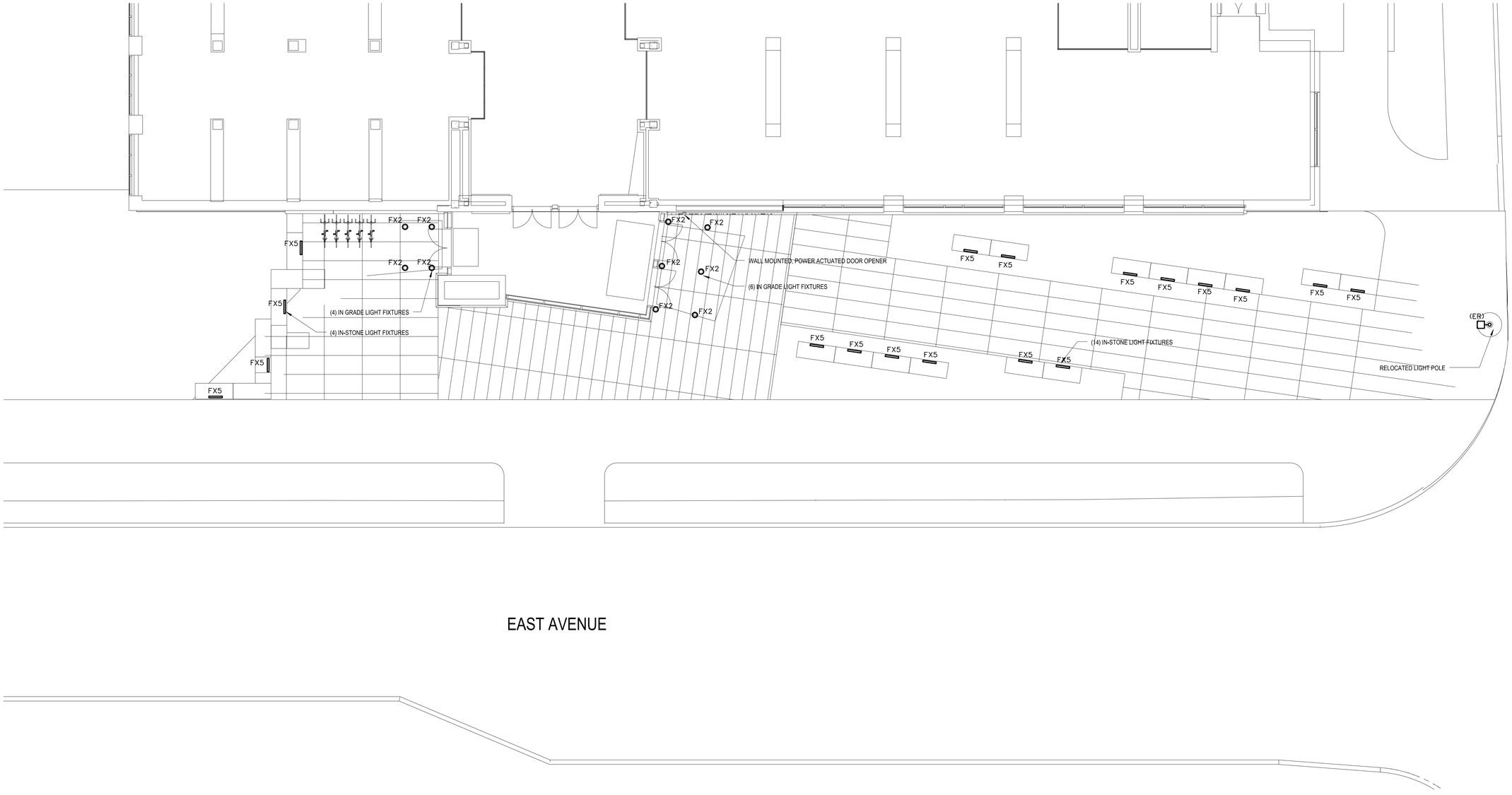
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL
ENGINEERING CONSULTANTS
ROCHESTER - BUFFALO - SYRACUSE - CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLAN - LIGHTING NEW WORK

EL101



1 EL102 SITE PLAN LIGHTING - NEW WORK

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

NORTH

0 4' 8' 16'

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

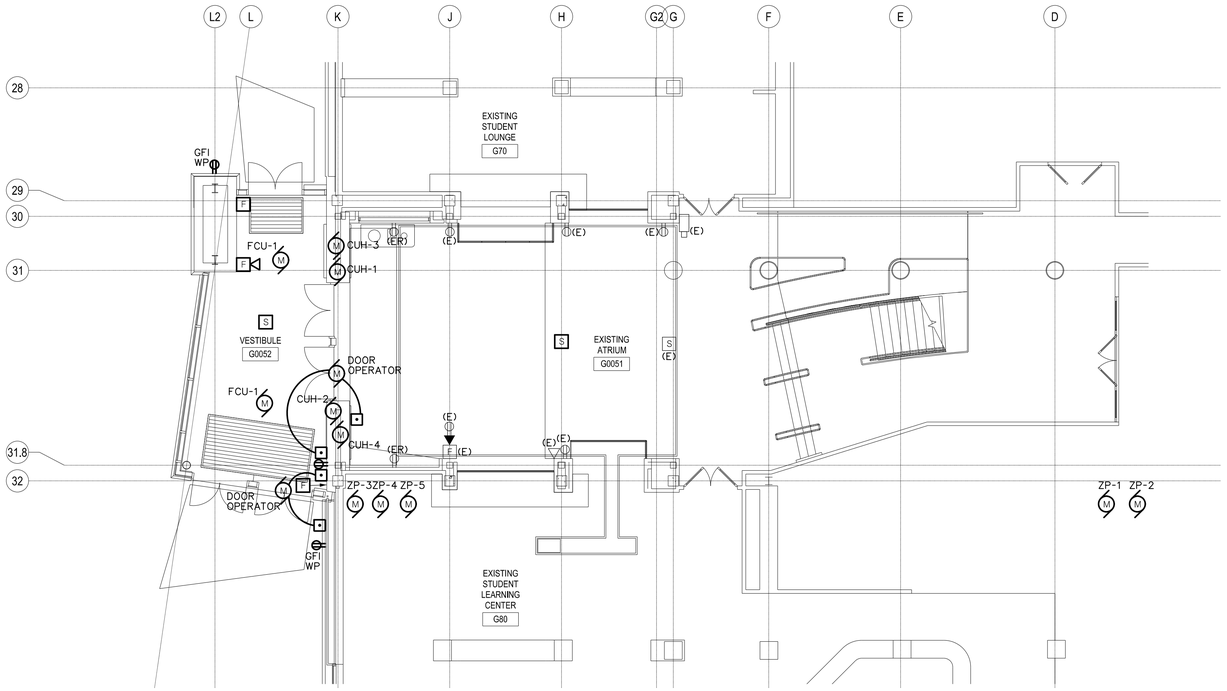
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL
ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5550 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

SITE PLAN - ELECTRICAL

EL102

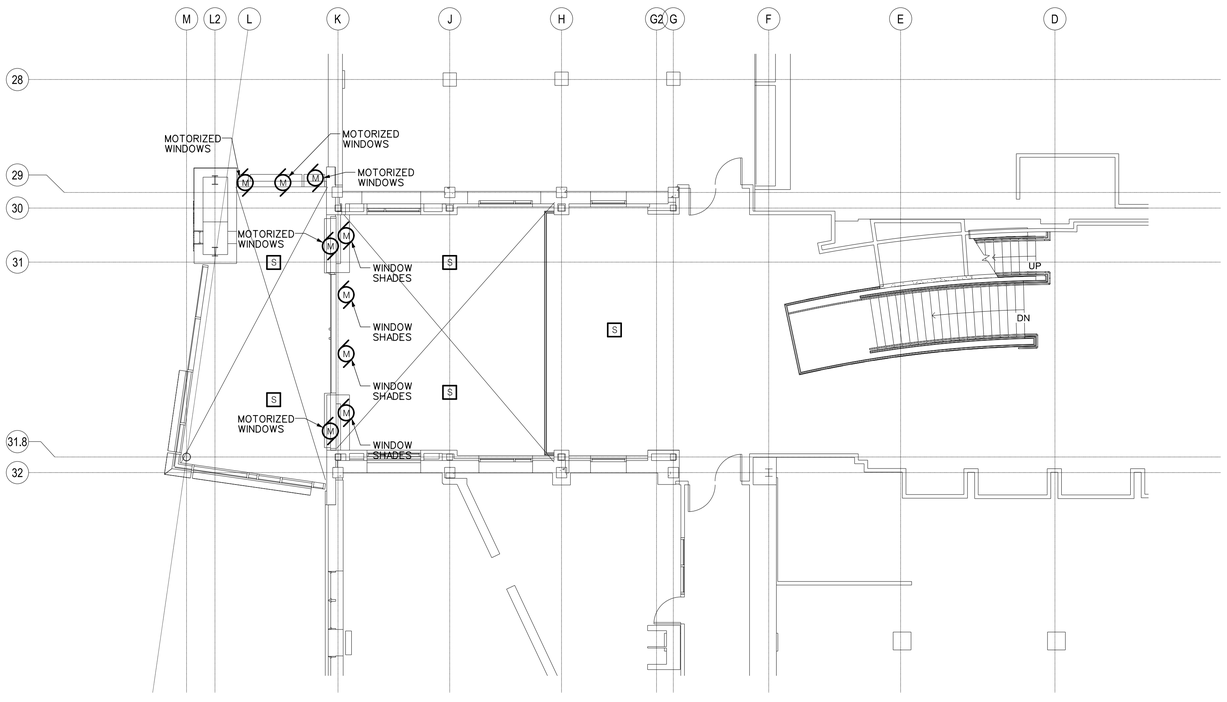


1 EP100 GROUND FLOOR POWER & SPECIAL SYSTEMS - NEW WORK

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

NORTH

0 4' 8' 16'



2 EP100 FIRST FLOOR POWER & SPECIAL SYSTEMS - NEW WORK

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

NORTH

0 4' 8' 16'

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13

M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

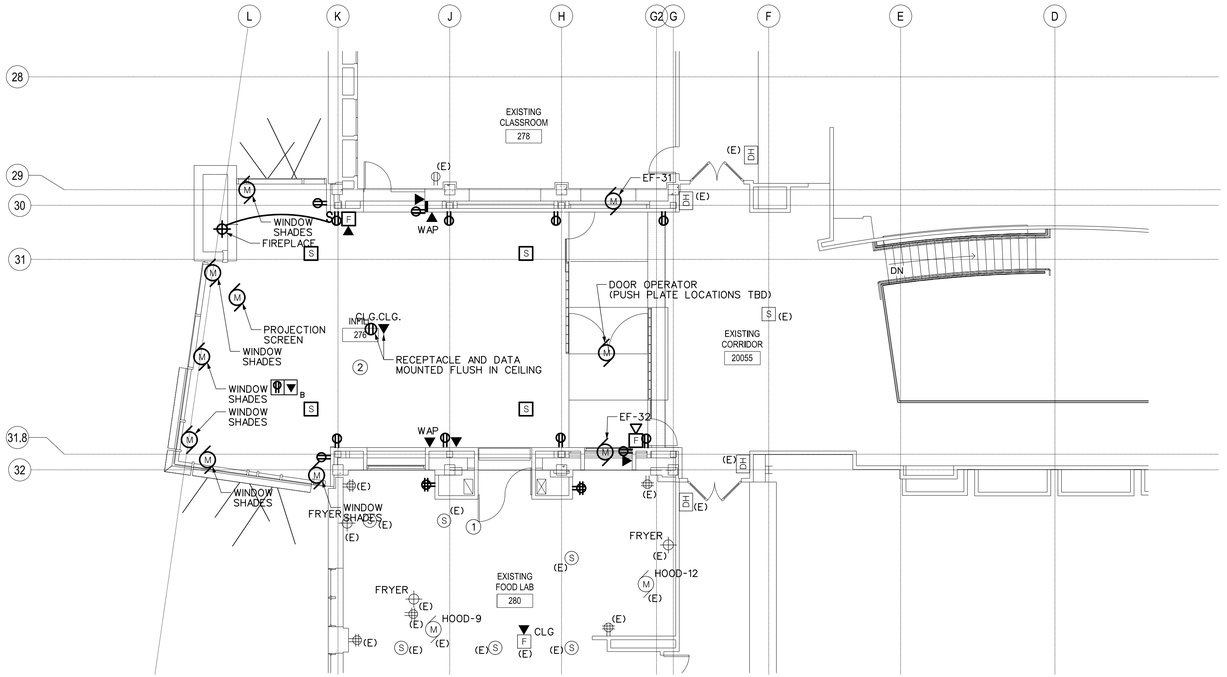
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL
ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLAN - POWER NEW WORK

EP100



1 EP101 SECOND FLOOR POWER & SPECIAL SYSTEMS - NEW WORK

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

0 4' 8' 16'

NORTH

DRAWING NOTES:

1. EXISTING FOOD LAB SERVICES TO BE MODIFIED AS PART OF ALTERNATE TO ALLOW FOR NEW ENTRY DOORS FROM SECOND FLOOR INFILL.
2. MOTORIZED WINDOW SHADES CONTROL LOCATION AND PROJECTION SCREEN CONTROL LOCATION TO BE PROVIDED IN A COMMON LOCATION. FINAL LOCATION IS TO BE DETERMINED.

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

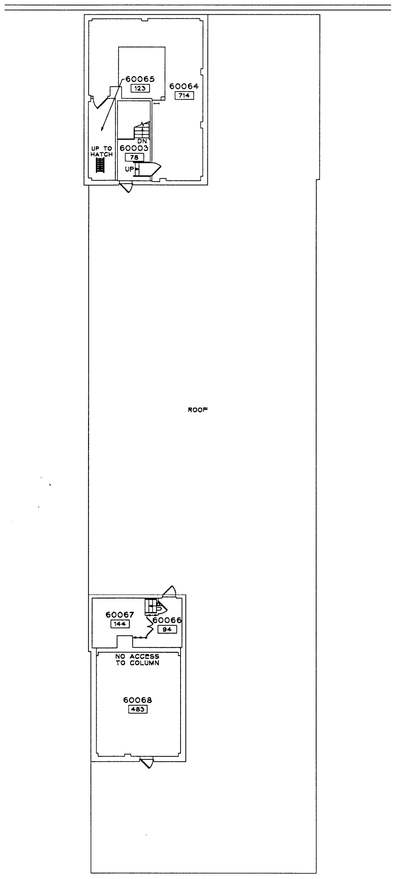
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER - BUFFALO - SYRACUSE - CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLAN - POWER NEW WORK

EP101



1 EP102 SIXTH POWER & SPECIAL SYSTEMS - NEW WORK

SCALE: 1/16"=1'-0"

NORTH

0 8' 16' 32'

DRAWING NOTES:

1. EXISTING FOOD LAB SERVICES TO BE MODIFIED AS PART OF ALTERNATE TO ALLOW FOR NEW ENTRY DOORS FROM SECOND FLOOR INFILL.

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

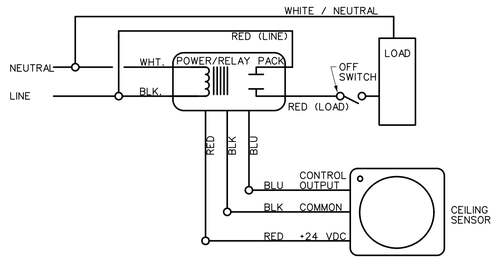
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

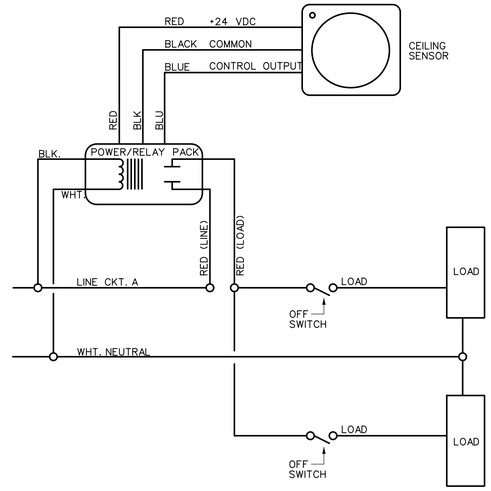
FLOOR PLAN - POWER NEW WORK

EP102



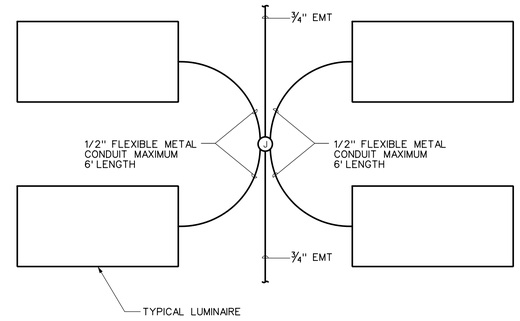
1 E500 CEILING MOUNTED OCCUPANCY SENSOR

SCALE: NONE — SINGLE SWITCHED LOAD



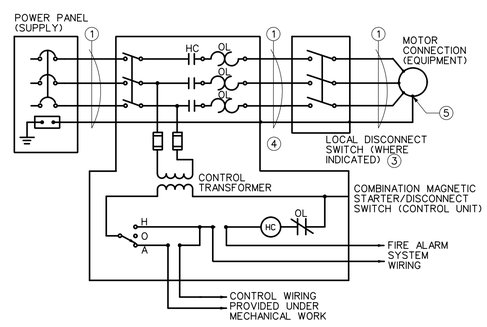
2 E500 CEILING MOUNTED OCCUPANCY SENSOR

SCALE: NONE — DUAL SWITCHED LOAD



3 E500 TYPICAL BRANCH CIRCUIT WIRING FOR CEILING MOUNTED LUMINAIRES

SCALE: NONE

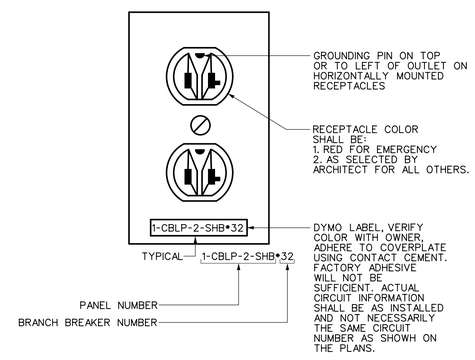


DETAIL NOTES:

1. POWER WIRING AND CONNECTIONS PROVIDED UNDER ELECTRICAL WORK.
2. MOTOR STARTER FURNISHED AND INSTALLED UNDER ELECTRICAL WORK
3. CONTROL DEVICES FURNISHED AND INSTALLED UNDER ELECTRICAL WORK.
4. DISCONNECT SWITCH PROVIDED UNDER ELECTRICAL WORK.
5. BOND EQUIPMENT GROUND CONDUCTOR TO ENCLOSURE.
6. BOND EQUIPMENT GROUND CONDUCTOR TO MOTOR FRAME.

4 E500 TYPICAL THREE PHASE MOTOR CONNECTION

SCALE: NONE



DETAIL NOTES:

A. PROVIDE GREEN GROUND WIRE IN ALL RECEPTACLE CIRCUITS. CONNECT TO GROUND BUS IN PANEL.

B. DO NOT INSTALL RECEPTACLES, COMPUTER OR TELEPHONE OUTLETS BACK TO BACK. INSTALL IN ADJACENT STUD CAVITIES, TO REDUCE SOUND TRANSMISSION.

C. FOR RECEPTACLES WHICH ARE FED FROM UPS POWER ALSO PROVIDE ENGRAVING ON THE RECEPTACLE COVERPLATE STATING "UPS POWER".

5 E500 TYPICAL RECEPTACLE IDENTIFICATION

SCALE: NONE

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

ELECTRICAL DETAILS

E500

ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

GENERAL NOTES:
1. ALL DEVICES PROVIDED BY THE DIVISION 16 CONTRACTOR.
2. ITEM NUMBER INDICATES EQUIPMENT NUMBER
3. ALL DEVICES SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
4. PROVIDE OVERLOADS, SIZE AS REQUIRED, BY THE DIVISION 15 CONTRACTOR.
5. "AU" INDICATES CONTROL DEVICES IS LOCATED AT THE UNIT.
6. "NF" INDICATES NON-FUSED.
7. "IU" INDICATES INTEGRAL WITH UNIT.

EQUIPMENT								POWER SOURCE, PROTECTION & WIRING								CONTROL DEVICES AS SHOWN ON THE PLANS BY ITEM DESIGNATION																									
ITEM ID	NAME	ROOM LOCATION	HP	KW	PHASE	SYSTEM VOLTS	MCA or SYSTEM AMPS	PANEL or CONTROL CENTER	CIRCUIT BREAKER or "FU" FOR FUSE	POWER WIRING FROM PANEL TO CONTROL UNIT			POWER WIRING FROM CONTROL UNIT TO EQUIPMENT			NEMA SIZE STARTER	NEMA TYPE	MANUAL MOTOR STARTER	MANUAL MOTOR STARTER WITH RELAY	COMBINATION MAGNETIC STARTER	COMBINATION REDUCED VOLTAGE STARTER	COMBINATION STARTER MP/FUSE (F) SIZE	ADJUSTABLE SPEED DRIVE	ADJUSTABLE SPEED DRIVE WITH BYPASS	ADJUSTABLE SPEED DRIVE WITH REDUNDANT ASD	PACKAGED CONTROL UNIT FURNISHED BY OTHERS	DUPLEX PUMP CONTROLLER BY OTHERS	FIRE ALARM FAN SHUTDOWN REQUIRED	SUPPLY DUCT SMOKE DETECTOR W/ REMOTE TEST STATION	RETURN DUCT SMOKE DETECTOR W/ REMOTE TEST STATION	EXHAUST DUCT SMOKE DETECTOR W/ REMOTE TEST STATION	THERMOSTAT CONNECTION	AQUASTAT CONNECTION	MOTORIZED DAMPER CONNECTION	START/STOP PUSHBUTTONS	HAND/OFF/AUTO SELECTOR SWITCH	CONTROL DEVICE LOCATION	SAFETY SWITCH				REF. NOTES	ITEM ID
										PHASE	GROUND	CONDUIT	PHASE	GROUND	CONDUIT																							SWITCH AMPS	FUSE SIZE	LOC.	WEATHER PROOF		
FCU-1	FAN COIL UNIT	VESTIBULE																																									FCU-1
FCU-2	FAN COIL UNIT	VESTIBULE																																									FCU-2
CUH-1	CABINET UNIT HEATER	VESTIBULE																																									CUH-1
CUH-2	CABINET UNIT HEATER	VESTIBULE																																									CUH-2
CUH-3	CABINET UNIT HEATER	ATRIUM																																									CUH-3
CUH-4	CABINET UNIT HEATER	ATRIUM																																									CUH-4
EF-31	SMOKE PURGE FAN	ROOF																																									EF-31
EF-32	SMOKE PURGE FAN	ROOF																																									EF-32
ZP-1	RADIENT SLAB PUMP																																										ZP-1
ZP-2	RADIENT SLAB PUMP																																										ZP-2
ZP-3	RADIENT SLAB PUMP	CEILING																																									ZP-3
ZP-4	RADIENT SLAB PUMP	CEILING																																									ZP-4
ZP-5	RADIENT SLAB PUMP	CEILING																																									ZP-5

LUMINAIRE SCHEDULE

TYPE	FIXTURE SIZE AND DESCRIPTION	LAMP	VOLTAGE/ BALLAST	REFLECTOR/ DIFFUSER	APPROVED MANUFACTURER AND MODEL NUMBER	NOTES
FR1	6" ROUND RECESSED DOWNLIGHT					
FR2	4' LINEAR RECESSED FIXTURE					
FR3	4" ROUND RECESSED DOWNLIGHT					
SL1	POLE MOUNTED SITE LIGHT					
FS1	WALL MOUNTED SCONCE				FLOS MODEL: A2180	
FS2	4' LINEAR WALL MOUNTED FIXTURE					
FP1	LARGE DECORATIVE ROUND PENDANT	70W CMH	120/277V ELECT. BALLAST		LOUIS POULSEN MODEL: PH6-MINI-1/70W/CMH/T-6 G12-120/270V-WHT	
FX2	IN GRADE LIGHTS		120V		MODA LIGHT MODEL: ROKO-12-G2-STAINLESS STEEL-WW-24	
FX5	IN STONE LINEAR LIGHTS				BEGA MODEL: 2005P-124WFLT5HO-2000LUMEN	
X1	LED EDGE LIT EXIT SIGN WITH MIRRORED BACKGROUNDS	LED	120/277V		SURE LITES MODEL: ELX SERIES	

GENERAL NOTES:
1. ALL BALLAST SHALL BE PROGRAM START
2. ALL LAMPS SHALL BE 3500K.

REFERENCE NOTES:
1. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT ANGLE OF SLOPE FOR ALL FIXTURE LOCATIONS
2. MATCH EXISTING WALKWAY LIGHTING FIXTURES
3. PROVIDE FIXTURE WITH (2) BALLASTS.
4. COORDINATE WITH ARCHITECT FOR COLOR.
5. COORDINATE WITH ARCHITECT FOR MOUNTING HEIGHT.
6. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAIL.

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

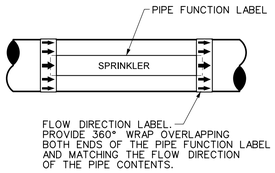
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

ELECTRIAL SCHEDULES

E600



DETAIL NOTES:

A. PROVIDE A PIPE LABEL FOR EACH PIPE FUNCTION.

B. PROVIDE AT LEAST ONE LABEL ON EACH PIPE FOR EVERY ROOM THE PIPE PASSES THROUGH.

C. PROVIDE LABELS IN LARGE SPACES ON MAXIMUM 20'-0" CENTERS FOR EVERY PIPE UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS.

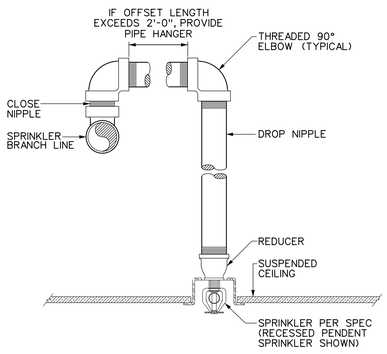
D. LABELS TO BE LOCATED IN AN EASILY VISIBLE LOCATION AS THEY WOULD NORMALLY BE SEEN. IE. ON THE BOTTOM HALF OF PIPES IN THE AIR AND ON THE TOP HALF OR SIDES OF PIPES MOUNTED LOW.

E. LABELS SHALL BE, COLOR CODED, PRE-PRINTED, SELF ADHESIVE VINYL

F. SEE SPECIFICATION FOR OTHER REQUIREMENTS AND LIST OF PIPE FUNCTIONS.

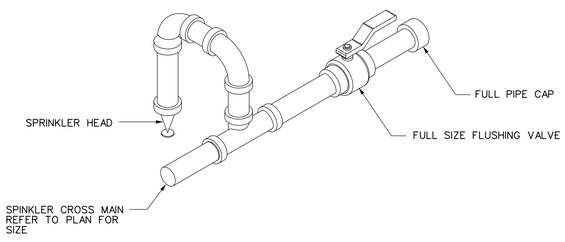
1 FP-001 **PIPING IDENTIFICATION LABEL DETAIL**

SCALE: NONE



2 FP-001 **RETURN BEND DETAIL**

SCALE: NONE



FLUSHING DETAIL NOTES:

A. PROVIDE ON ALL MAINS, CROSS MAINS, BRANCHES AND RUN OUTS

3 FP-001 **CORNELL UNIVERSITY - TYPICAL FLUSH ASSEMBLY**

SCALE: NONE

GENERAL FIRE PROTECTION NOTES:

A. THESE NOTES ARE APPLICABLE TO THE FULL SET OF CONTRACT DRAWINGS.

B. PROVIDE A COMPLETE FIRE PROTECTION SPRINKLER SYSTEM FOR ALL SPACES IN COMPLIANCE WITH THE STATE CODE REFERENCED EDITION OF NFPA 13,14 AND THE AUTHORITY HAVING JURISDICTION.

C. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED, REFER TO SPECIFICATIONS AND DRAWING NOTES.

D. ANY PIPE SIZES SHOWN ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL PERFORM HYDRAULIC CALCULATIONS TO DETERMINE FINAL PIPE SIZES.

E. THE PLANS ARE DIAGRAMMATIC AND INDICATE ONLY THE GENERAL ARRANGEMENT OF PIPING, SPRINKLER HEADS AND EQUIPMENT. ALL MAINS, BRANCH LINES, SPRINKLER HEADS, EQUIPMENT AND SYSTEM COMPONENTS SHALL BE PROVIDED. THE PLANS ARE NOT INTENDED TO SHOW EVERY ITEM OF WORK OR EQUIPMENT. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY COMPONENT NECESSARY TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE, NFPA AND THE AHJ WITHOUT ADDITIONAL COST.

F. ITEMS OF WORK OR EQUIPMENT SHOWN ON THE DRAWINGS ONLY, OR CALLED FOR IN THE SPECIFICATIONS ONLY, SHALL BE FURNISHED AND INSTALLED IN THE SAME MANNER AS IF THEY APPEARED ON BOTH THE DRAWINGS AND THE SPECIFICATIONS.

G. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATION, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES IN PIPING AND LOCATION OF EQUIPMENT, ETC. TO ACCOMMODATE WORK, OBSTACLES, AND WORK OF OTHER CONTRACTORS.

H. INSTALL EQUIPMENT AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION, SERVICE, AND MAINTENANCE OF EQUIPMENT.

I. ALL NEW PENETRATIONS THROUGH WALLS, FLOORS AND ROOFS SHALL BE PROVIDED BY THIS CONTRACTOR FOR INSTALLATION OF FP SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, PIPING, ETC., UNLESS OTHERWISE SHOWN ON THE ARCHITECTURAL DRAWINGS. THIS CONTRACTOR SHALL PROVIDE SLEEVES FOR ALL PIPING PENETRATING THROUGH RATED WALLS AND FLOORS. SLEEVES SHALL BE INSTALLED AND LEFT IN A CONDITION TO BE FIRESTOPPED BY OTHERS.

J. ALL PENETRATIONS THROUGH NON RATED WALLS SHALL BE SLEEVED AND SEALED WITH A NON-HARDENING SEALANT ON BOTH SIDES OF THE WALL.

K. THE PLANS DO NOT INDICATE THE LOCATION OF HIGH TEMPERATURE HEADS. THE CONTRACTOR TO PROVIDE HIGH TEMPERATURE SPRINKLER HEADS WHERE REQUIRED BY NFPA-13.

L. PROVIDE TAMPER SWITCHES, CHAINS AND BREAKABLE LOCKS FOR ALL FIRE PROTECTION VALVES. ALL SHUTOFF VALVES SHALL BE CHAINED AND LOCKED IN THE OPEN POSITION.

M. PROVIDE SPRINKLER GUARDS FOR ALL SPRINKLERS, LOCATED BELOW DUCTWORK IN MECHANICAL ROOMS, AND FOR SPRINKLERS IN MECHANICAL AND STORAGE SPACES LESS THAN 8 FT. ABOVE FLOOR.

N. DISPOSE OF ALL WASTE MATERIALS CAUSED BY WORK OF THIS CONTRACTOR. LEGALLY DISPOSE ALL MATERIALS TO A LOCATION OFF SITE.

O. COORDINATE AND SCHEDULE WORK AND SHUTDOWNS WITH THE OWNER AND OTHER TRADES PRIOR TO CONSTRUCTION. PROVIDE ADVANCE NOTIFICATION TO SECURITY OFFICE AND FIRE DEPARTMENT FOR ALL SYSTEM SHUTDOWNS.

P. MAINTAIN SERVICE CLEARANCES OF ALL EQUIPMENT. ADVISE OTHER TRADES OF THE REQUIRED SERVICE CLEARANCES.

Q. PROVIDE FOR THE DRAINING AND REFILLING OF PIPING SYSTEMS, INCLUDING AIR REMOVAL, FLUSHING SYSTEMS OF DIRT AND SCALE CAUSED BY SHUTDOWNS AND STARTUPS.

R. LABEL ALL PIPING, SHUT OFF VALVES AND TEST CONNECTIONS. PAINT ALL EXPOSED PIPING WITHIN FINISHED SPACES.

S. PIPING SHALL BE INSTALLED AND CONCEALED ABOVE FINISHED CEILINGS WITH SPRINKLER HEADS LOCATED IN CENTER OF CEILING TILES.

T. ARRANGE WET AND DRY PIPE SPRINKLER SYSTEMS TO DRAIN BACK TO A LOW POINT DRAIN VALVE. WHERE NOT POSSIBLE PROVIDE AUXILIARY DRAINS ON SPRINKLER MAIN.

U. ALL COSTS FOR CUTTING, PATCHING, AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOORS TO ACCOMMODATE THE INSTALLATION OF WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR UNLESS INDICATED OTHERWISE. MATERIALS FOR RESTORATION OF EXISTING SURFACES SHALL MATCH THE EXISTING SURFACES.

V. THIS CONTRACTOR IS RESPONSIBLE FOR ALL PATCHING OF EXISTING OR NEW FIRE PROOFING WHICH IS DISTURBED OR REMOVED DURING THE COURSE OF ANY DEMOLITION OR INSTALLATION OF NEW WORK THAT IS PART OF THIS CONTRACT.

W. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS, FOR PERFORMING DEMOLITION OR NEW WORK WITHIN THE BUILDING. THE EXISTING CEILINGS SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE TO THE CEILING SYSTEMS. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIAL SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE STORAGE OF ALL MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATIONS. ANY CEILING SYSTEM COMPONENT DAMAGED DURING DEMOLITION , STORAGE OR REINSTALLATION SHALL BE REPLACED WITH NEW AT NO EXPENSE TO THE OWNER.

X. ALL NEW PENETRATIONS THROUGH WALLS, FLOORS AND ROOFS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER PRIOR TO MAKING PENETRATION. ALL PENETRATION SHALL BE PROVIDED IN STRICT ACCORDANCE OF THE STRUCTURAL ENGINEER'S RECOMMENDATIONS.

Y. DO NOT DRILL, CORE OR CUT ANY PORTION OF EXISTING COLUMNS, BEAMS, JOISTS OR BRIDGING RIBS WITHOUT PRIOR APPROVAL.

Z. NEW SPRINKLER HEAD TYPES TO MATCH EXISTING RESPONSE TYPE IN ADJACENT AREAS ABOVE.

FIRE PROTECTION SYMBOL LIST

SYMBOL	DESCRIPTION
	EXISTING WORK TO BE REMOVED
	POINT OF CONNECTION
	POINT OF DISCONNECTION
NTS	NOT TO SCALE
(E)	EXISTING
(ETR)	EXISTING TO REMAIN
AFF	ABOVE FINISHED FLOOR
GC	GENERAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
FC	FLUSHING CONNECTION
(E)	EXISTING PIPING
	NEW PIPING
FP	FIRE PROTECTION SERVICE (FP)
S	SPRINKLER MAIN/BRANCH PIPING (S)
D	SPRINKLER DRAIN PIPING (D)
	ELBOW DOWN
	45° OFFSET
	ELBOW UP
	BOTTOM/TEE CONNECTION
	TOP TEE CONNECTION
	PIPE CONTINUATION
	FLUSHING CONNECTION
	QUICK RESPONSE PENDENT SPRINKLER HEAD
	QR CONCEALED PENDENT SPRINKLER HEAD
	QUICK RESPONSE UPRIGHT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	DRAIN VALVE
	CHECK VALVE
	SHUT-OFF VALVE WITH TAMPER SWITCH (TS)
FS	FLOW SWITCH (FS)
	INSPECTOR'S TEST CONNECTION (ITC)

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

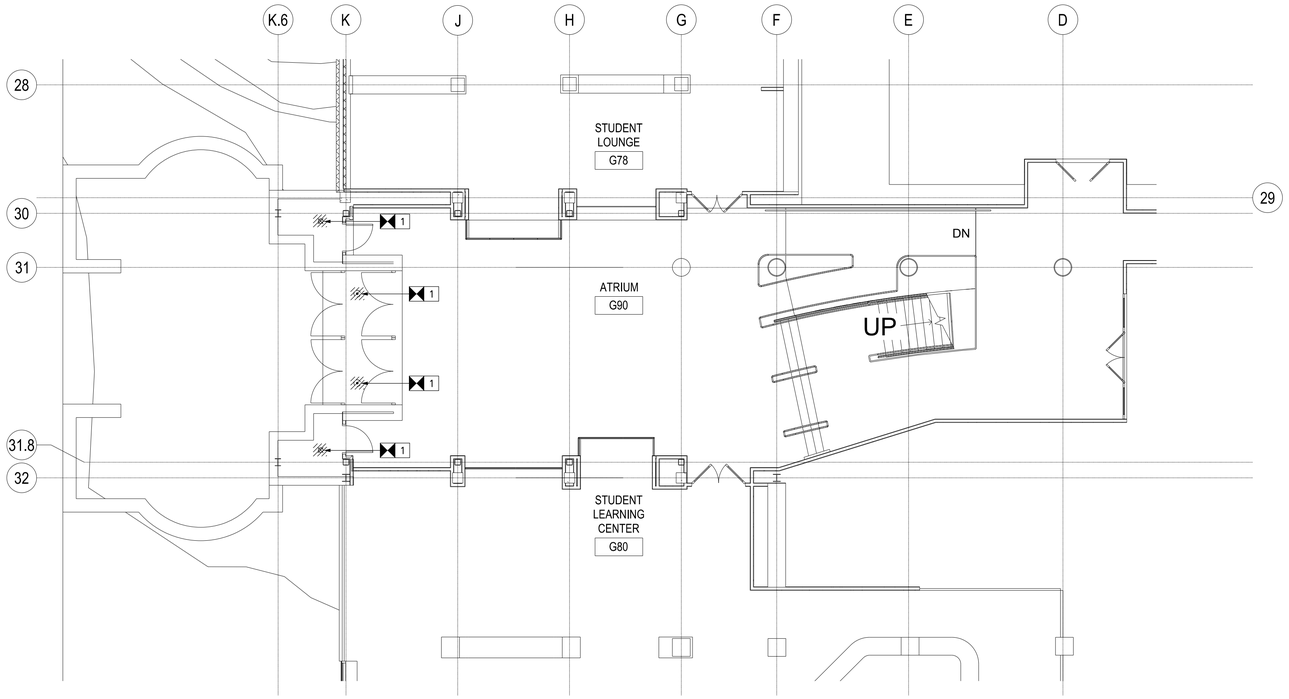
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

GENERAL NOTES & SYMBOLS LIST

FP000

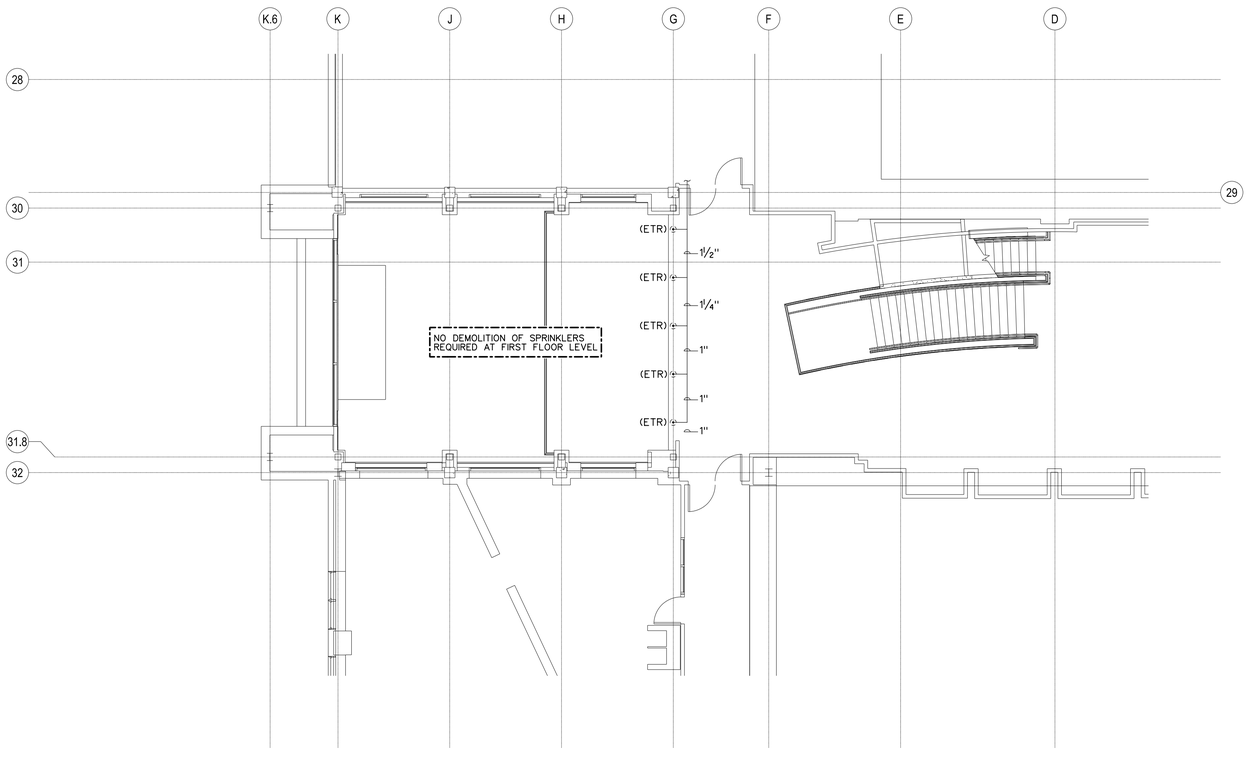


1 FPD100 GROUND FLOOR FIRE PROTECTION - DEMO PLAN

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

NORTH

0 4' 8' 16'



2 FPD100 GROUND FLOOR FIRE PROTECTION - DEMO PLAN

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

NORTH

0 4' 8' 16'

DEMOLITION NOTES:

1. DISCONNECT AND REMOVE (E) SPRINKLER HEAD AND ASSOCIATED PIPING AS REQUIRED BACK TO ACTIVE MAIN AND CAP.

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

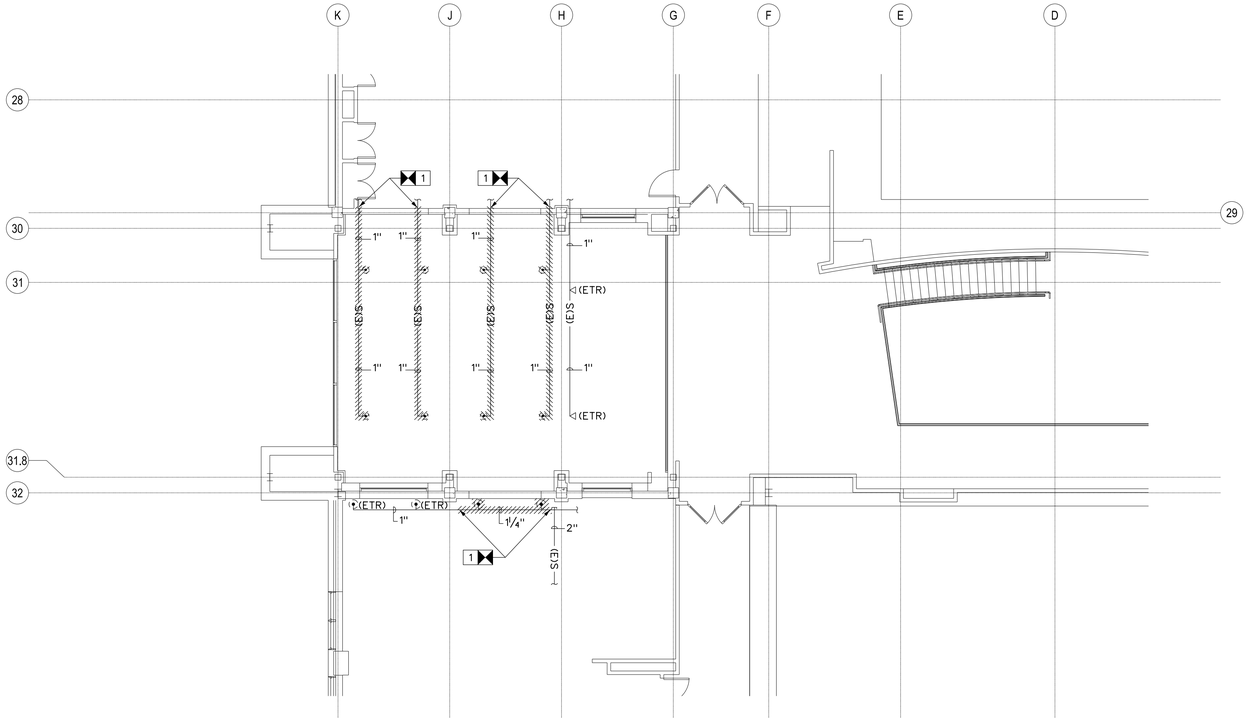
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLAN - FIRE PROTECTION DEMO

FPD100



1 FPD101 SECOND FLOOR FIRE PROTECTION - DEMO PLAN

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

NORTH

0 4' 8' 16'

DEMOLITION NOTES:

1 DISCONNECT AND REMOVE (E) SPRINKLER HEAD(S) AND ASSOCIATED PIPING BACK TO POINTS INDICATED AND CAP.

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

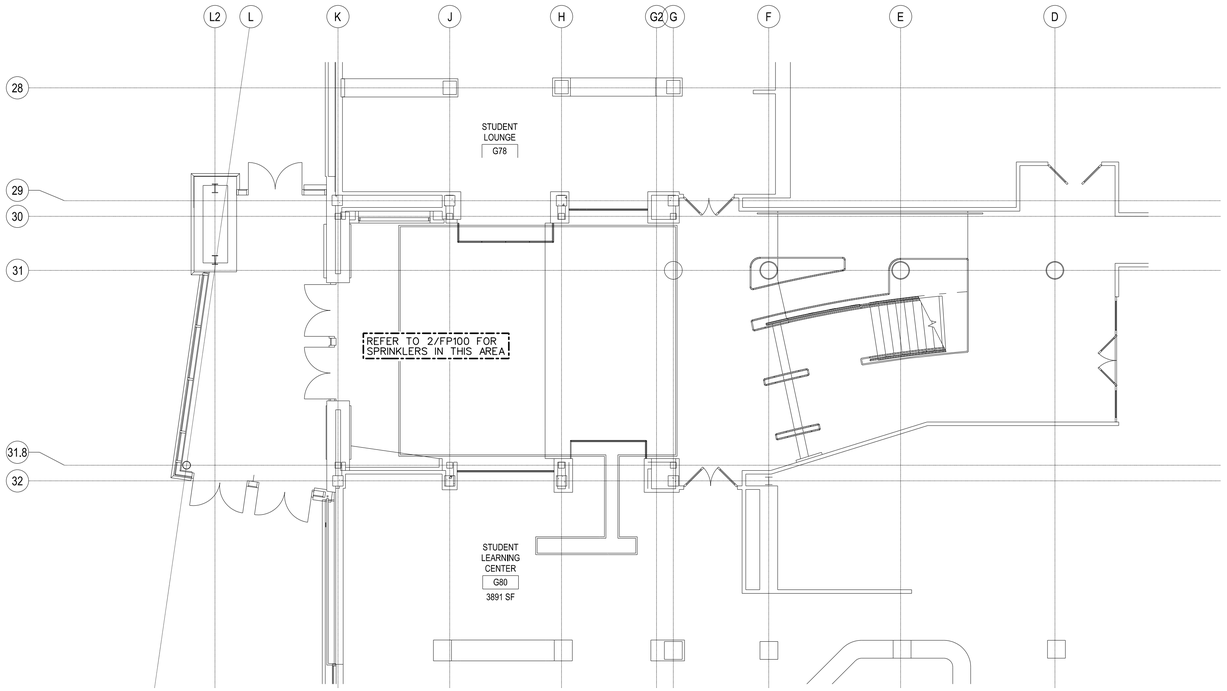
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL
ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLAN - FIRE PROTECTION DEMO

FPD101

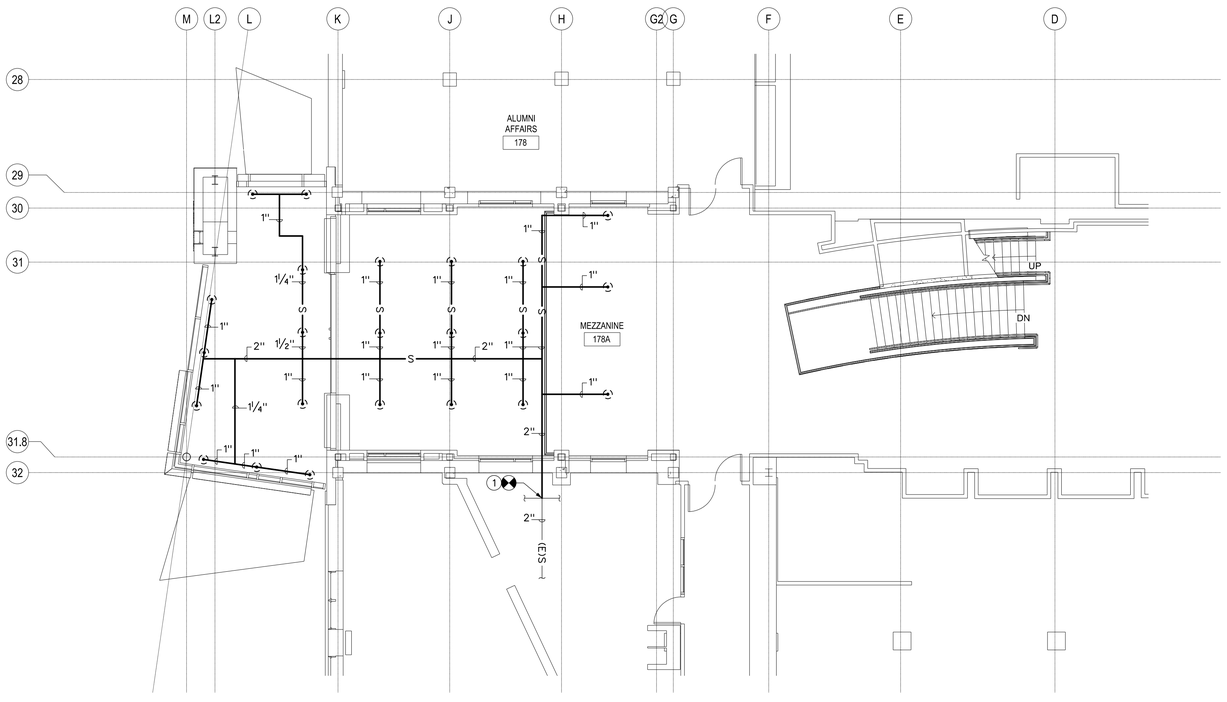


1 FP100 GROUND FLOOR FIRE PROTECTION PLAN - NEW WORK

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

NORTH

0 4' 8' 16'



2 FP100 FIRST FLOOR FIRE PROTECTION PLAN - NEW WORK

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

NORTH

0 4' 8' 16'

DRAWING NOTES:

1. CONNECT 2" S TO (E) MAIN. PROVIDE COMPLETE SPRINKLER COVERAGE FOR RENOVATED AREA PER NFPA 13.

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

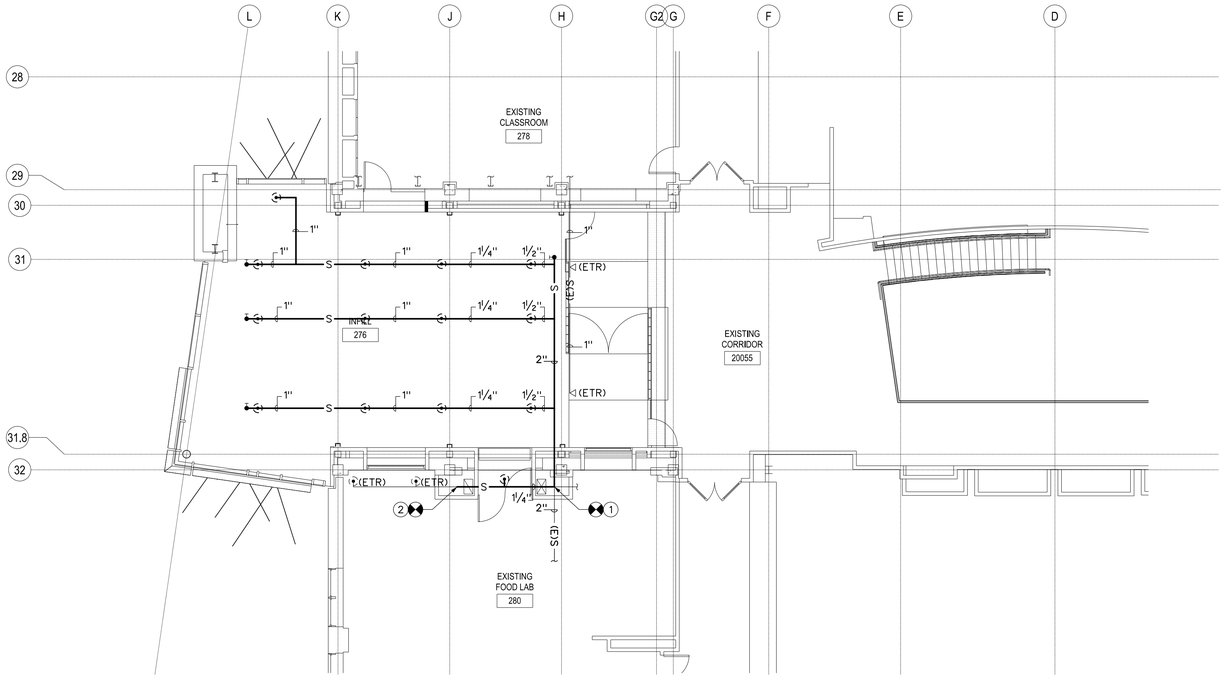
M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER • BUFFALO • SYRACUSE • CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLAN - FIRE PROT. NEW WORK

FP100



1 FP101 SECOND FLOOR FIRE PROTECTION PLAN - NEW WORK

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

NORTH

0 4' 8' 16'

DRAWING NOTES:

1. CONNECT 2" S TO (E) MAIN. PROVIDE COMPLETE SPRINKLER COVERAGE FOR RENOVATED AREA PER NFPA 13.
2. CONNECT 1" S TO (E) BRANCH MAIN.

PROGRESS PRINT
DO NOT USE FOR CONSTRUCTION
10/18/13
M/E ENGINEERING P.C.

School of Hotel Administration

East Avenue Entry and Second Floor Infill
Cornell University
Ithaca, NY 14853

No.	Date	Revision

150 S. Independence Mall W
Philadelphia, PA 19104
215-320-3000

M/E ENGINEERING P.C.
MECHANICAL/ELECTRICAL ENGINEERING CONSULTANTS
ROCHESTER - BUFFALO - SYRACUSE - CAPITAL DISTRICT
150 NORTH CHESTNUT STREET
ROCHESTER, NEW YORK 14604
(585) 288-5590 FAX: (585) 288-0233
M/E Project 130277

KSS ARCHITECTS

Project No.: 2012.21786
Issued: 10/18/2013

FLOOR PLAN - FIRE PROT. NEW WORK

FP101