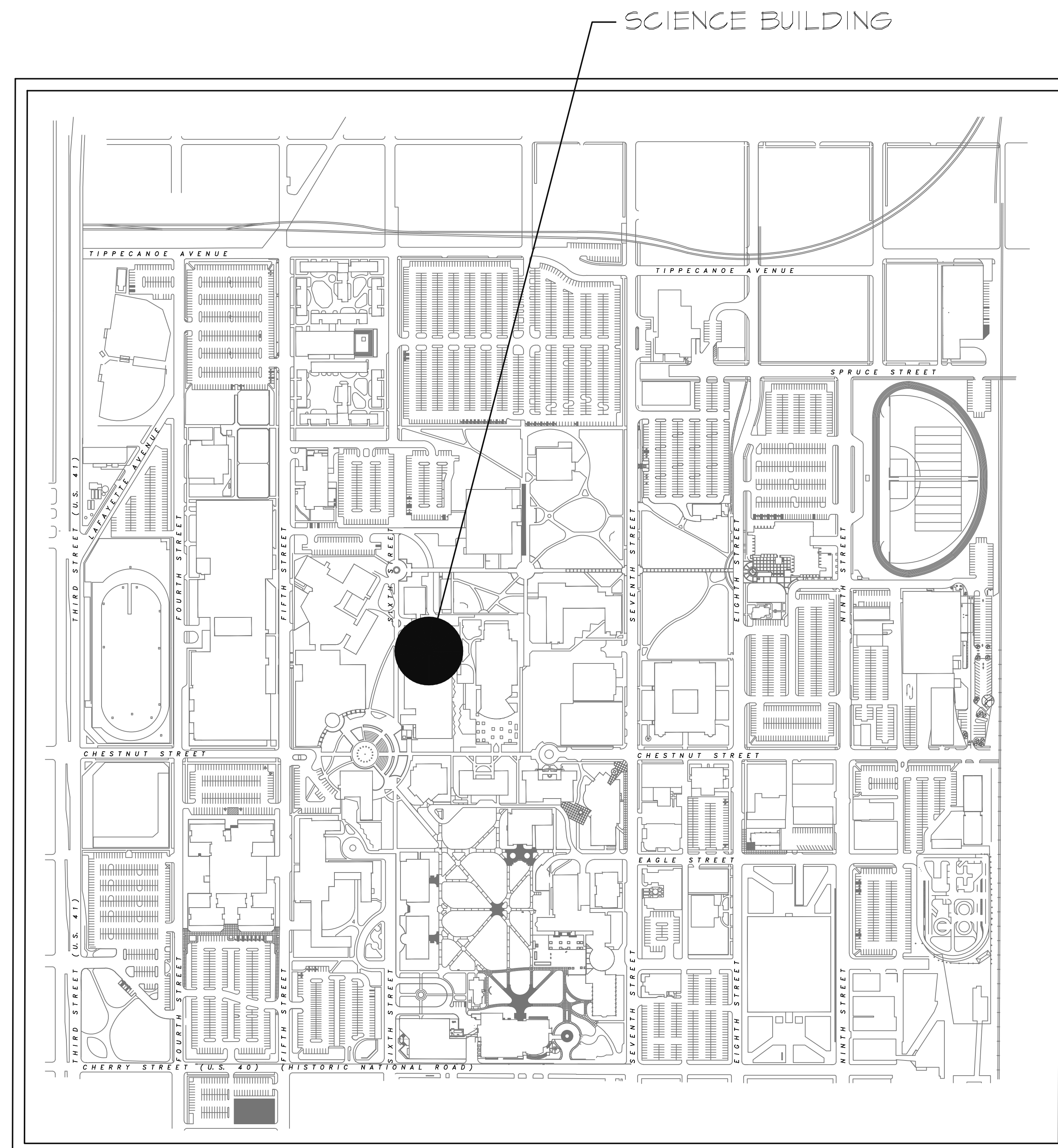


3D VISUALIZATION CENTER

SCIENCE BUILDING ROOM 158



PROJECT LOCATION MAP

DRAWING INDEX

CIVIL FIRE PROTECTION

ELECTRICAL
E001 SYMBOLS AND SCHEDULES
E201 LIGHTING PLANS
E211 POWER PLANS

DEMOLITION
D101 DEMOLITION PLAN

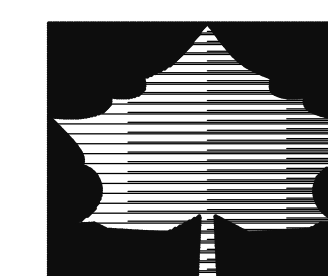
MECHANICAL
M101 ABBREVIATIONS / SYMBOLS
M201 MECHANICAL PLAN

ARCHITECTURAL
A101 ROOM 158 FLOOR PLAN
A102 DETAIL PLAN

PLUMBING

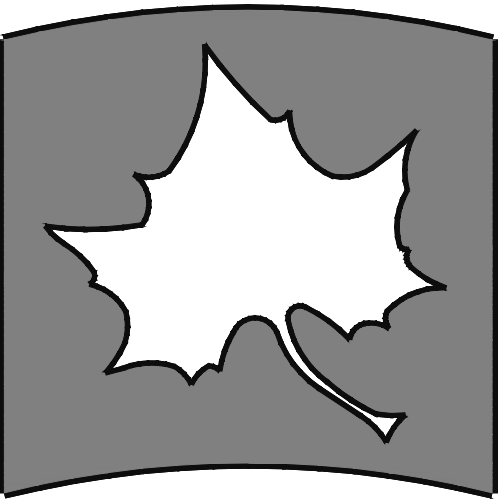
TECHNOLOGY

INDIANA STATE UNIVERSITY



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951 Sycamore Street
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phone: (812) 237-8100 fax: (812) 237-7630

DATE: 10/22/2019 PROJ. NO.: B0026966



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3D-VISUALIZATION CENTER
SCIENCE BUILDING

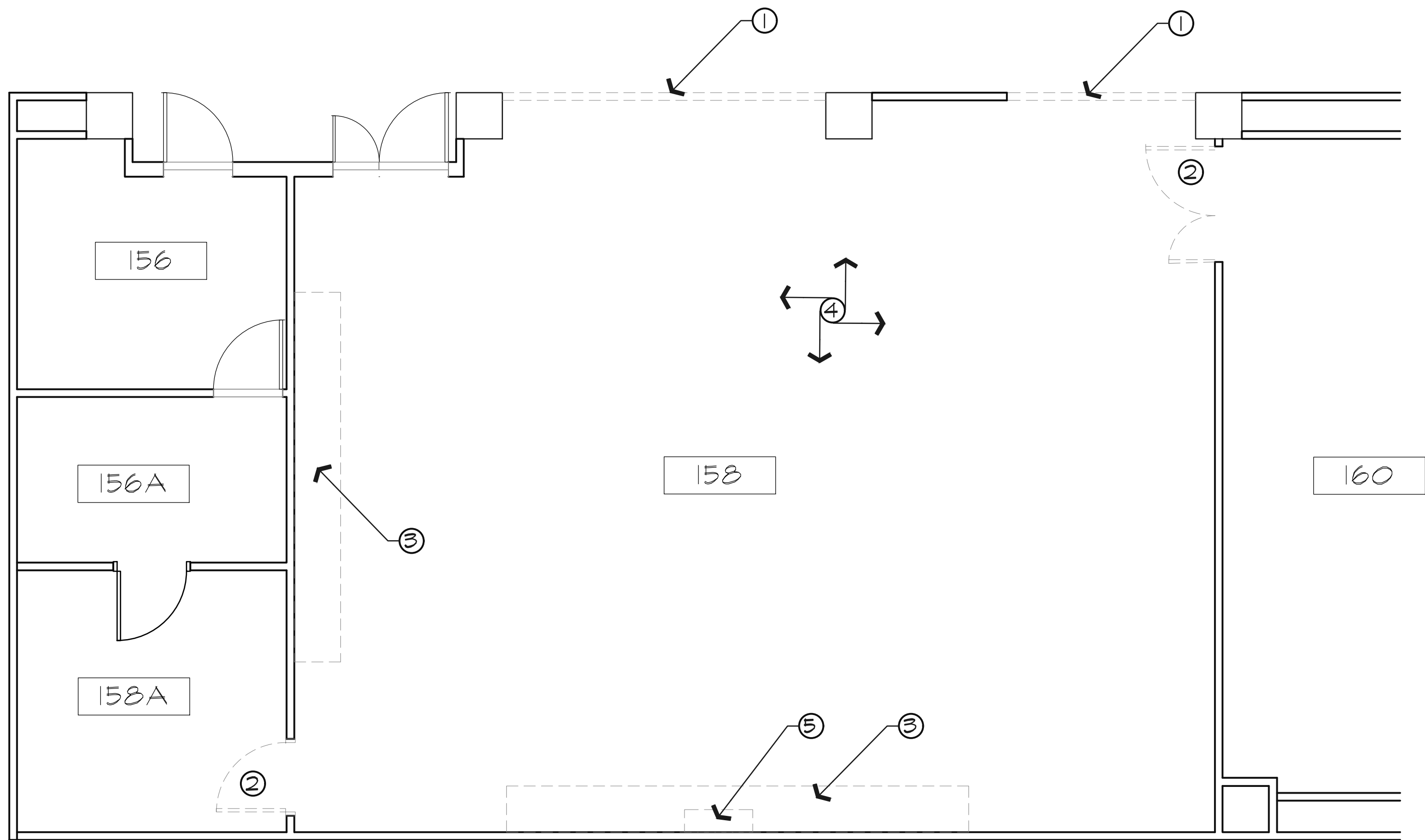
DEMOLITION PLAN

FILENAME:	
PROPERTY NO.:	
REVISIONS	
1	
2	
DATE:	10/23/2019
SCALE:	1/4"=1'-0"
DRAWN BY:	ST. HILMAR
CHECKED BY:	B. DUNCAN
APPROVED BY:	K. RUNION
PROJECT NO.:	

SHEET NO.

D101

OF SHEETS



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

PLAN NOTES:

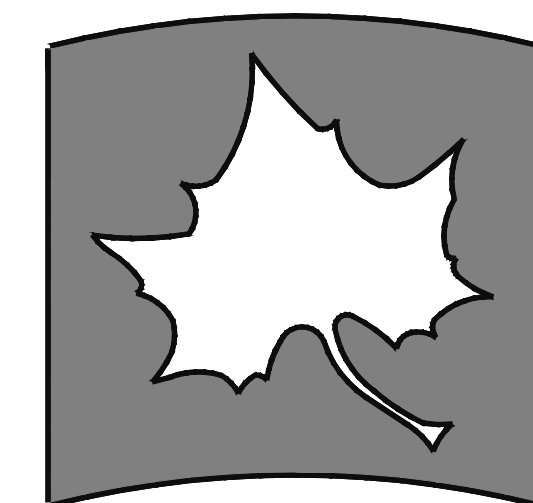
1. REMOVE EXISTING WALL CONSTRUCTION COMPLETE.
PATCH EXISTING CORRIDOR CEILING AS REQUIRED.
PATCH EXISTING FLOOR FOR NEW FINISHES.
2. REMOVE EXISTING DOOR AND FRAME COMPLETE.
3. REMOVE EXISTING CABINETS AND PLUMBING COMPLETE.
PATCH WALLS AND FLOOR AS REQUIRED FOR NEW FINISHES.
TURN CABINETS OVER TO OWNER.
4. REMOVE EXISTING CEILING AND LIGHTING COMPLETE.
REMOVE EXISTING SHEET FLOORING COMPLETE.
PATCH WALLS AND FLOOR AS REQUIRED FOR NEW FINISHES.
5. REMOVE EXISTING PLUMBING CHASE COMPLETE.

GENERAL NOTES:

PATCH ALL WALLS AS REQUIRED FOR NEW FINISHES.

T.V.'S AND BRACKETS BY ISU, CONTRACTOR TO MOUNT TO WALL
PROVIDE REQUIRED BLOCKING IN WALL.

REMOVE ALL EXISTING MARKER BOARDS AND TACK BOARDS FROM WALL
AND TURN OVER TO OWNER.

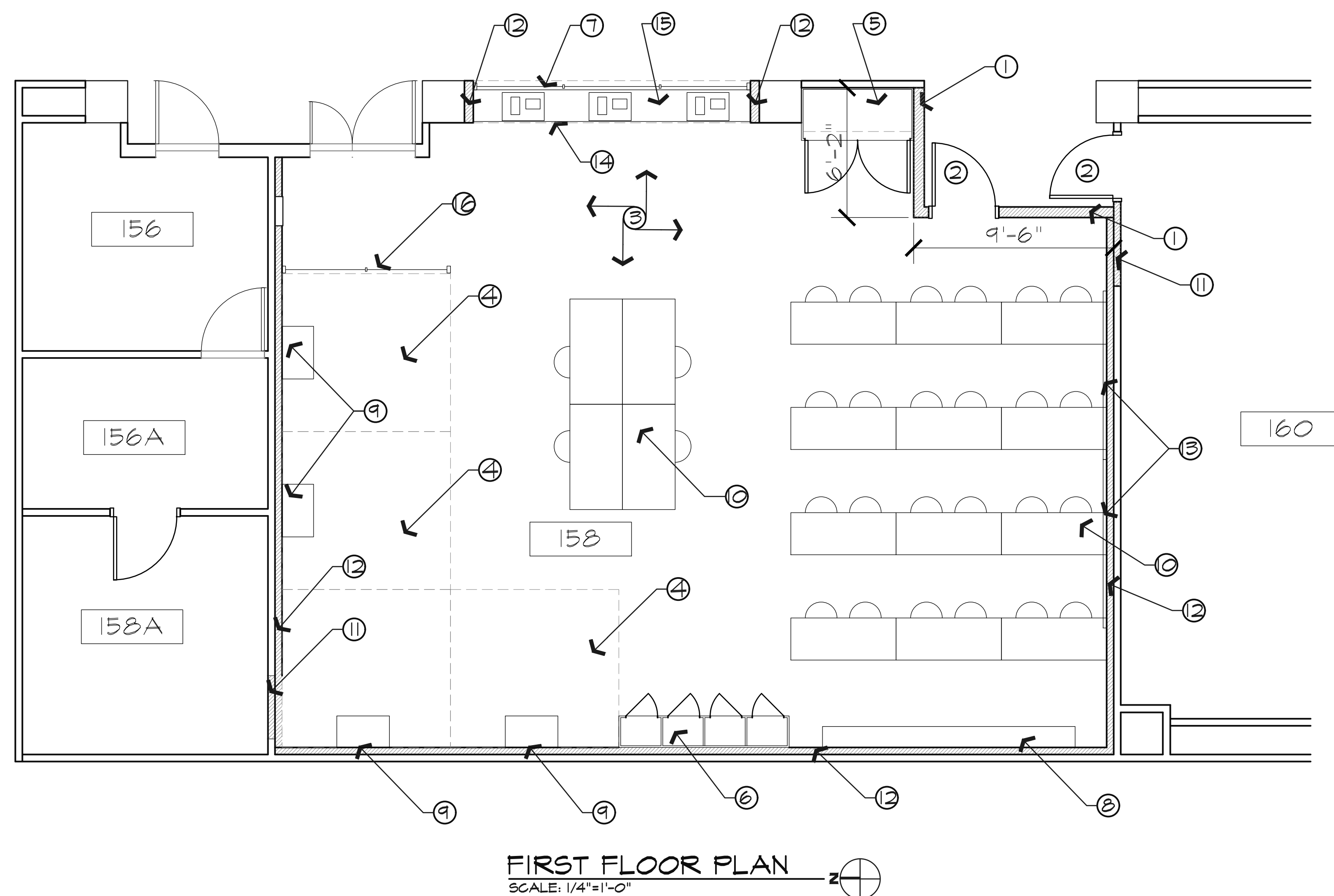


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3D-VISUALIZATION CENTER
SCIENCE BUILDING
FLOOR PLAN

FILENAME	
PROPERTY NO.	
REVISIONS	
1	
2	
DATE	10/23/2019
SCALE	1/4"=1'-0"
DRAWN BY:	ST. HILMAR
CHECKED BY:	B. DUNCAN
APPROVED BY:	K. RUNION
PROJECT NO.	

SHEET NO.
A101
OF SHEETS



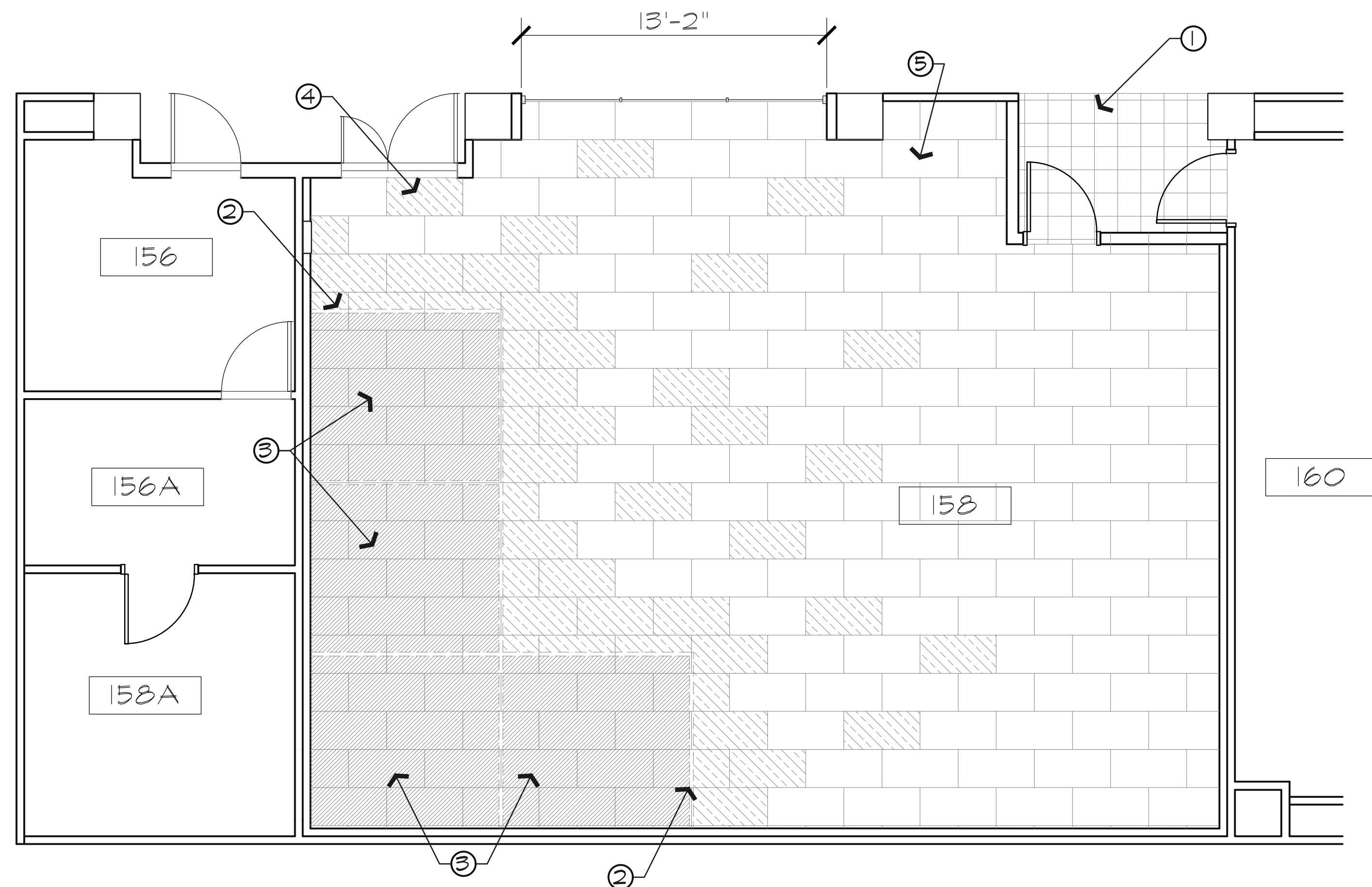
GENERAL NOTES:

PATCH ALL WALLS AS REQUIRED FOR NEW FINISHES.

T.V.'S AND BRACKETS BY ISU, CONTRACTOR TO MOUNT TO WALL
PROVIDE REQUIRED BLOCKING IN WALL.

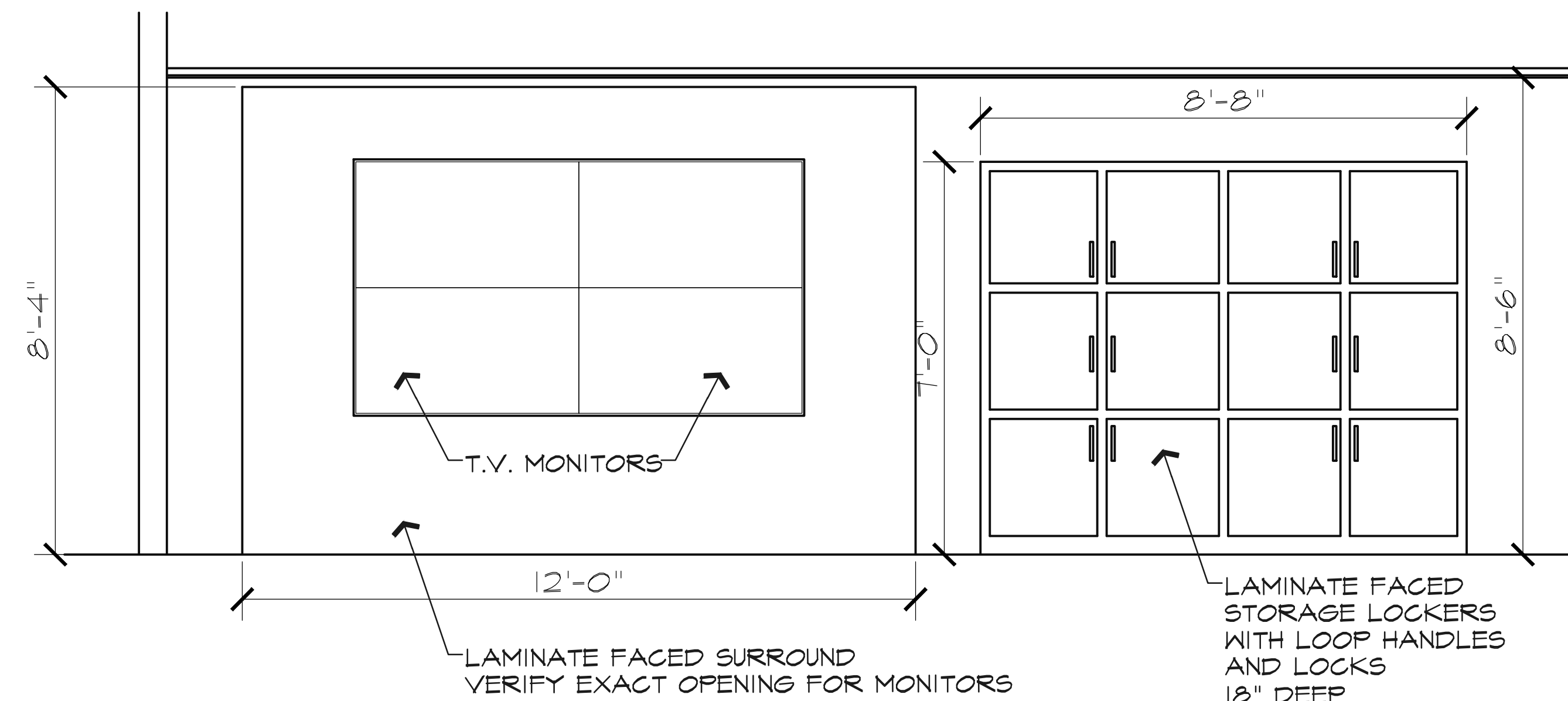
PLAN NOTES:

- CONSTRUCT A NEW 3 5/8" METAL STUD WALL WITH 5/8" DRYWALL TO 6" ABOVE CEILING GRID. PAINT WALLS TWO FINISH COATS IN COLOR SELECTED BY OWNER. INSTALL SOUND BATT INSULATION. INSTALL NEW 4" VINYL BASE TO MATCH WITH EXISTING.
- INSTALL A NEW 3' X 7' SOLID CORE WOOD DOOR IN METAL FRAME. DOOR SHALL MATCH WITH EXISTING IN AREA. INSTALL NEW LEVER SET HARDWARE AND BALL BEARING HINGES.
- INSTALL CARPET TILE AS MILLIKEN IN MORaine WITH COLORS; # 19-13-6 ELEVATE W / NAVY AND #13-6 ELEVATE. SEE SHEET A102. INSTALL NEW 2' X 2' CEILING GRID AND TILE AS USG "ECLIPSE". PAINT WALLS TWO FINISH COATS IN COLOR SELECTED BY OWNER.
- INSTALL CARPET TILE AS MILLIKEN IN MORaine # 123-19 STRATUM. INSTALL RUBBER CARPET TRANSITION "TEE" TO DEFINE AREA AROUND EACH VIRTUAL REALITY STATION.
- CUSTOM LAMINATE FACED CABINET WITH LOCKABLE DOORS AND ADJUSTABLE SHELVEING. SEE SHEET A102 FOR DETAILS
- CUSTOM LAMINATE FACED STORAGE LOCKER CUBICLES WITH DOORS, LOOP HANDLES AND CABINET LOCKS. SEE SHEET A102 FOR DETAILS
- GLASS STOREFRONT WINDOW UNIT WITH ALUMINUM FRAME SEE SHEET A102 FOR DETAILS
- CUSTOM LAMINATE FACED CABINET SURROUND FOR CUSTOM VIDEO MONITOR DISPLAY WALL. ISU WILL PROVIDE MONITORS AND MOUNTING BRACKETS. CONTRACTOR TO INSTALL MOUNTING BRACKETS.
- DESK UNIT FOR VR COMPUTER AND MONITOR BY OTHERS.
- FURNITURE TABLES AND CHAIRS BY OTHERS.
- INFILL WALL WITH BLOCK TO MATCH WITH EXISTING. PAINT WALL TWO FINISH COATS TO MATCH.
- CONSTRUCT A 3 5/8" METAL STUD WALL AROUND PERIMETER OF ROOM WITH 5/8" DRYWALL TO 6" ABOVE LAY-IN CEILING. PAINT WALL TWO FINISH COATS IN COLOR SELECTED BY OWNER.
- PURCHASE AND INSTALL (2) 8' LONG GLASS MARKER BOARDS AS CLARIDGE MODEL # MGM-48
- CONSTRUCT A METAL STUD AND DRYWALL BULKHEAD @ 7' A.F.F. PAINT TWO FINISH COATS IN COLOR SELECTED BY OWNER.
- INSTALL A CUSTOM LAMINATE SHELF WITH CAVITY FOR CONCEALED POWER AND DATA TO 3D PRINTERS. SEE SHEET A102 FOR DETAILS
- CUSTOM METAL FRAME AND GLASS DIVIDER WALL AS "DIRTT"

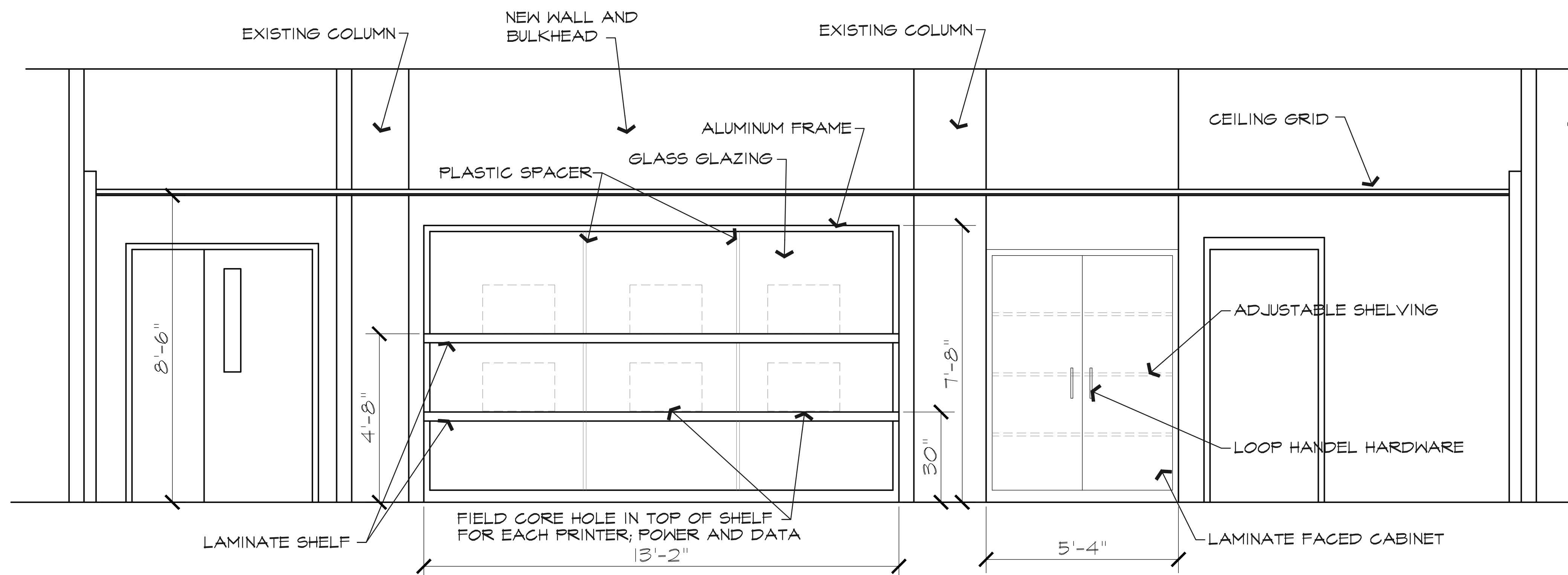


FLOOR FINISHES PLAN
SCALE: 1/4"=1'-0"

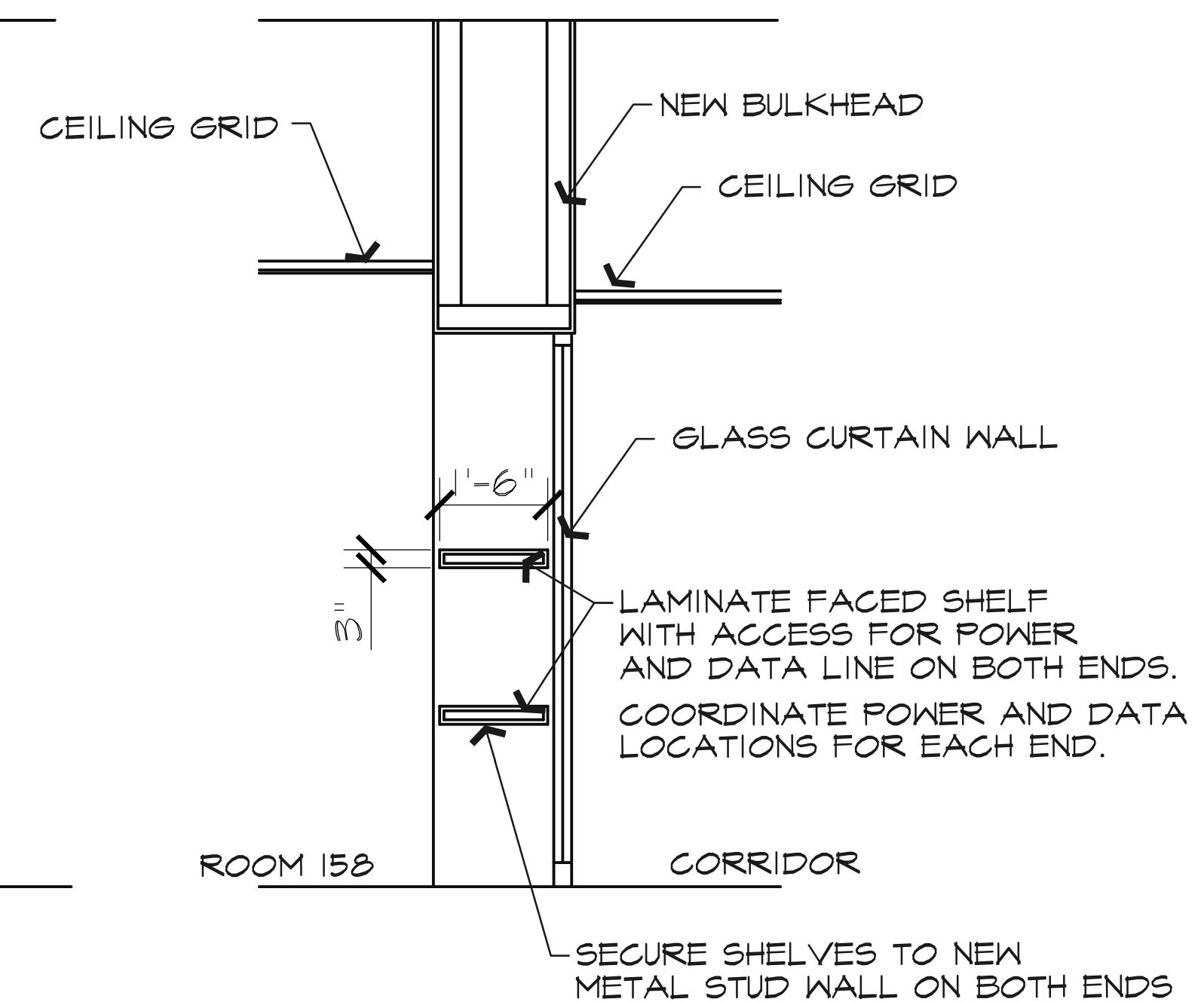
- FLOOR FINISHES PLAN NOTES:**
- ① MATCH EXISTING HALLWAY VINYL TILE AND PATTERN. INSTALL NEW 4" VINYL BASE TO MATCH WITH EXISTING.
 - ② INSTALL A CARPET TRANSITION "TEE" TO DEFINE AREA AROUND EACH VIRTUAL REALITY MOVING AREA.
 - ③ INSTALL CARPET TILE AS "MILLIKEN" IN MORaine SIZE 19.7" X 39.4"; COLOR TO BE # REF 123-19 STRATUM
 - ④ INSTALL CARPET TILE AS "MILLIKEN" IN MORaine SIZE 19.7" X 39.4"; COLOR TO BE # REF 19-13-6 ELEVATE WITH NAVY
 - ⑤ INSTALL CARPET TILE AS "MILLIKEN" IN MORaine SIZE 19.7" X 39.4"; COLOR TO BE # REF 13-6 ELEVATE



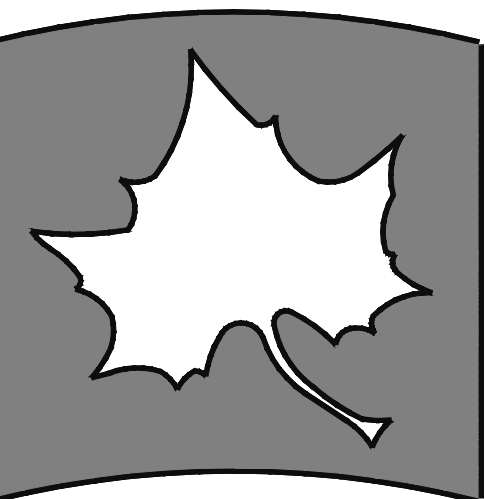
VIDEO WALL AND STORAGE
SCALE: 1/2"=1'-0"



WALL ELEVATION DETAIL
SCALE: 1/2"=1'-0"



GLASS WALL SECTION
SCALE: 1/2"=1'-0"



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**3D-VISUALIZATION CENTER
SCIENCE BUILDING
DETAIL PLAN**

FILENAME	PROPERTY NO.	REVISIONS
1		
2		
DATE:	10/23/2019	
SCALE:	1/4"=1'-0"	
DRAWN BY:	ST. HILMAR	
CHECKED BY:	B. DUNCAN	
APPROVED BY:	K. RUNION	
PROJECT NO.:		

SHEET NO.
A102
OF SHEETS

PLUMBING

	COLD WATER
	HOT WATER
	HOT WATER RETURN
	HOT WATER (140° F)
	HOT WATER RETURN (140° F)
	HOT WATER (180° F)
	HOT WATER RETURN (180° F)
	TEMPERED WATER
	COLD SOFT WATER
	HOT SOFT WATER
	HOT SOFT WATER RETURN
	NON-POTABLE WATER
	GAS
	AIR (WITH PSI)
	STORM WATER (SUSPENDED)
	STORM WATER (BURIED)
	SANITARY WASTE (SUSPENDED)
	SANITARY WASTE (BURIED)
	ACID WASTE (SUSPENDED)
	ACID WASTE (BURIED)
	SANITARY VENT LINE
	DRAIN LINE
	WELL WATER
	GAS METER
	WATER METER
	RPBP (REDUCED PRESSURE BACKFLOW PREVENTER)
	AIR CHAMBER
	SHOCK ABSORBER

PIPE FITTINGS

	ELBOW UP
	ELBOW DOWN
	TEE UP
	TEE DOWN
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	END CAP
	UNION
	STRAINER
	FLANGED CONNECTION
	FLOW ARROW
	PIPE ANCHOR
	EXPANSION JOINT
	PIPE SLEEVE
	PIPE ALIGNMENT GUIDES
	FLEX CONNECTOR
	PIPE PITCH ARROW (DOWN IN ARROW DIRECTION)
	PRESSURE GAUGE
	AUTOMATIC AIR VENT
	COMPOUND GAUGE
	ELBOW
	TEE
	CLEANOUTS
	FLOOR DRAIN
	THERMOMETER

STEAM PIPING

	BOILER FEED WATER
	EMERGENCY BOILER FEED WATER
	LOW PRESSURE STEAM
	MEDIUM PRESSURE STEAM
	HIGH PRESSURE STEAM
	LOW PRESSURE CONDENSATE RETURN
	MEDIUM PRESSURE CONDENSATE RETURN
	HIGH PRESSURE CONDENSATE RETURN
	CONDENSATE PUMP DISCHARGE
	CONDENSATE RETURN
	FLOAT & THERMOSTATIC TRAP
	INVERTED BUCKET TRAP
	THERMOSTATIC TRAP

HVAC PIPING

	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	GROUND LOOP WATER SUPPLY
	GROUND LOOP WATER RETURN
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	FUEL OIL SUPPLY
	FUEL OIL RETURN
	FUEL OIL VENT
	REFRIGERANT DISCHARGE
	REFRIGERANT SUCTION
	REFRIGERANT LIQUID
	REFRIGERANT HOT GAS
	DUAL TEMPERATURE SUPPLY
	DUAL TEMPERATURE RETURN
	CONDENSATE DRAIN

VALVES

	SHUT-OFF VALVE
	SHUT-OFF VALVE
	VERTICAL SHUT-OFF/IN VERTICAL PIPE
	BALANCING VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	MAKEUP WATER VALVE
	FLOW CONTROL VALVE
	SAFETY/PRESSURE RELIEF VALVE
	TEMP/PRESSURE RELIEF VALVE
	CONTROL VALVE (TCV)
	3-WAY CONTROL VALVE
	THROTTLING VALVE

REFRIGERATION VALVES/FITTINGS

	FILTER-DRYER
	SIGHT GLASS
	CHARGING VALVE
	EVAPORATOR PRESSURE REGULATOR
	MANUAL REFRIGERATION VALVE
	THERMOSTATIC EXPANSION VALVE

RADIATION SYMBOLS

	FINNED TUBE RADIATION
	FINNED TUBE RADIATION IN COVER
	BARE PIPE IN COVER
	RADIATION COVER ONLY

DUCT SYMBOLS

	VOLUME DAMPER
	SUPPLY DUCT UP
	RETURN OR EXHAUST DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT DOWN
	INTERNAL LINED DUCT
	FIRE DAMPER (FD) IN DUCT
	COMBINATION FIRE/SMOKE DAMPER (FSD) IN DUCT
	SMOKE DAMPER (SD) IN DUCT
	ACCESS PANEL

FIRE PROTECTION SYSTEM

	PENDANT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	FIRE PROTECTION PIPING
	DRY STANDPIPE
	DRY PIPE SPRINKLER PIPING
	PRE-ACTION SPRINKLER PIPING
	WET FIRE PROTECTION PIPING
	FIRE HYDRANT
	SIAMESE HOSE CONNECTION
	POST INDICATOR VALVE
	TAMPER SWITCH
	FLOW SWITCH

NOMENCLATURE FOR SCHEDULED DEVICES

(SEE SCHEDULES M600 SERIES DRAWINGS FOR ADDITIONAL INFORMATION)

	FAN COIL
	BLOWER COIL
	ROOM NUMBER UNIT UNDERLINED REPRESENTS SCHEDULED EQUIPMENT FAN COIL CFM FAN COIL SIZE
	UNIT/AREA LOCATION IN BUILDING NUMBER OF AHU IN UNIT UNDERLINED REPRESENTS SCHEDULED EQUIPMENT
	EXHAUST FAN
	SUPPLY FAN
	RETURN FAN
	VENTILATION FAN
	UNIT/AREA LOCATION IN BUILDING NUMBER OF FAN IN UNIT UNDERLINED REPRESENTS SCHEDULED EQUIPMENT FAN COIL CFM
	UNIT/AREA LOCATION IN BUILDING UNDERLINED REPRESENTS SCHEDULED EQUIPMENT VAV CFM VAV SIZE - SEE SCHEDULE
	VARIABLE AIR VOLUME BOX

TEMPERATURE CONTROL/MONITORING

	ROOM THERMOSTAT (HEAT)
	ROOM THERMOSTAT (HEAT/COOL)
	ROOM THERMOSTAT (COOL)
	DUCT THERMOSTAT (PNEUMATIC)
	DUCT THERMOSTAT (ELECTRIC)
	HUMIDISTAT
	CARBON DIOXIDE SENSOR
	FLOW SWITCH
	TEMPERATURE SENSOR
	FLOW METER
	MOTORIZED DAMPER
	DIFFERENTIAL PRESSURE TRANSMITTER
	PETE'S PLUG
	VARIABLE FREQUENCY DRIVE
	TEMPERATURE CONTROL PANEL

DRAWING NOTATIONS

	CONNECTION TO EXISTING
	DENOTED EXISTING WORK
	DENOTED NEW WORK
	SIZE OF PIPE OR DUCT
	DENOTED EXISTING

SECTIONS AND DETAILS

	SECTION OR ELEVATION NUMBER
	SHEET NUMBER OF SECTION OR ELEVATION
	DETAIL (LETTER)
	SHEET NUMBER OF DETAIL LOCATION

	DRAWN TO SCALE (ACTUAL SIZE) ACTUAL SIZE
	RETURN GRILL FOR RETURN AIR PLENUM CEILING
	SQUARE DIFFUSER DRAWN TO SCALE (ACTUAL SIZE) CFM
	CFM
	LINEAR SLOT DIFFUSER DRAWN TO SCALE (ACTUAL SIZE)
	SUPPLY DIFFUSER
	CFM
	ER - EXHAUST REGISTER
	RG - RETURN GRILL
	EXHAUST/RETURN REGISTER
	CFM ER - EXHAUST REGISTER RG - RETURN GRILL
	DOUBLE DEFLECTION SUPPLY REGISTER
	SIZE SUPPLY REGISTER CFM

ABBREVIATIONS

AD	AREA DRAIN
AFC	AUTOMATIC FLOW CONTROL
AFF	ABOVE FINISHED FLOOR
AHR	AIR HOSE REEL
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AP	ACCESS PANEL
AS	AIR SEPARATOR
BD	BLOWDOWN
BDD	BACKDRAFT PRESSURE RELIEF DAMPER
BTU	BRITISH THERMAL UNIT
BV	BALANCE VALVE
CB	CATCH BASIN
CI	CAST IRON
CL	CENTERLINE
CO	CLEANOUT
COND	CONDENSATE
CONV	HYDRONIC CONNECTOR
CUH	CABINET UNIT HEATER
CW	COLD WATER
DB	DRY BULB
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DS	DOWNSPOUT
DXC	DIRECT EXPANSION COOLING COIL
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EBBR	ELECTRIC BASEBOARD RADIATION
EC	ELECTRICAL CONTRACTOR
EG	EXHAUST GRILLE
ECONV	ELECTRIC CONVECTOR
ECUH	ELECTRIC CABINET UNIT HEATER
EF	EXHAUST FAN
ELEC	ELECTRICAL
ELEV	ELEVATION
EOM	END OF MAIN DRIP
EPUH	ELECTRIC PROPELLER UNIT HEATER
ER	EXHAUST REGISTER
ERCPC	ELECTRIC RADIANT CEILING PANEL
ESP	EXTERNAL STATIC PRESSURE
EWC	ELECTRIC WATER COOLER
EWI	ELECTRIC WATER HEATER
EXPT	EXPANSION TANK
E	EXISTING
FD	FLOOR DRAIN OR FIRE DAMPER
FPVAV	FAN POWERED VAV
FOB	FLAT ON BOTTOM
FSD	COMBINATION FIRE/SMOKE DAMPER
FTR	HYDRONIC FINNED TUBE RADIATION
GC	GENERAL CONTRACTOR
GEN	GENERAL
HB	HOSE BIBB
HTG	HEATING
HW	HOT WATER
HWR	HOT WATER RETURN
HYD	WALL HYDRANT
ID	INTERNAL DIAMETER
INV. EL.	INVERTED ELEVATION
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
MBH	1000 BTU/HOUR
MECH	MECHANICAL
MH	MANHOLE
MC	MECHANICAL CONTRACTOR
MS	MOP SINK
MUV	AUTOMATIC MAKE-UP VALVE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
ORD	OVERFLOW ROOF DRAIN
OSD	OPEN SITE DRAIN
PFHX	PLATE AND FRAME HEAT EXCHANGER
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PUH	PROPELLER UNIT HEATER
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RCP	HYDRONIC RADIANT CEILING HEATING PANEL
RCNP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RECIRC	RECIRCULATING
RG	RETURN GRILLE
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
RR	RETURN REGISTER
RIV	ROOF INTAKE VENT
RRV	ROOF RELIEF VENT
SA	SUPPLY AIR
SAN	SANITARY
SD	SMOKE DAMPER
SG	SUPPLY GRILLE
SHDR	SHOWER DRAIN
SK	SINK
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
STHX	SHELL AND TUBE HEAT EXCHANGER
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TG	TRANSFER GRILLE
TO	TRANSFER OPENING
TP	TRAP PRIMER LINE
TYP	TYPICAL
UR	URINAL
VAV	VARIABLE AIR VOLUME
VCP	VETRIFIED CLAY PIPE
VFD	VARIABLE FREQUENCY DRIVE
VS	VENT STACK
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WASTE
WB	WET BULB
WC	WATER CLOSET
WS	WASTE STACK

GENERAL NOTES

- ALL NEW WORK IS DRAWN DARK. ALL WORK DRAWN LIGHT AND FOLLOWED BY (E) IS EXISTING. ALL WORK SHALL REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.
- THESE NOTES APPLY TO EACH AND EVERY 'M' AND 'FP' SERIES DRAWINGS.
- FIELD VERIFY ALL EXISTING CONDITIONS AS TO EXACT SERVICE, LOCATION, TYPE OF MATERIAL, ETC. BEFORE BIDDING AND BEFORE BEGINNING RENOVATION WORK.
- COORDINATE ALL SHUT-DOWNS, DELIVERY, AND STORAGE OF MATERIALS, ETC. WITH OWNER'S REPRESENTATIVE.
- CONTRACTORS SHALL PROTECT ALL EXISTING OWNER FACILITIES DURING CONSTRUCTION. ANY AND ALL OWNER FACILITIES DAMAGED OR DISCONNECTED BY CONTRACTOR OPERATIONS SHALL BE FULLY RESTORED TO PREVIOUS OPERATING AND APPEARANCE CONDITION BY CONTRACTOR.
- PROVIDE SLEEVES FOR ALL PIPING AND DUCTWORK THAT PENETRATES FULL HEIGHT WALLS. WHETHER PIPING OR NOT. HOLES THROUGH EXISTING WALLS TO BE CORE DRILLED OR DRILLED WITH HOLE SAW.
- ADDITIONAL GENERAL NOTES SPECIFIC TO A PARTICULAR DRAWING ARE NOTED ON THOSE DRAWINGS.
- ALL UNDERLINED EQUIPMENT IS SCHEDULED. SEE M400 SERIES DRAWINGS SCHEDULES.
- SMOKING, ALCOHOL, DRUGS, WEAPONS, AND CONTRABAND ARE STRICTLY FORBIDDEN ON JOB SITE PROPERTY.

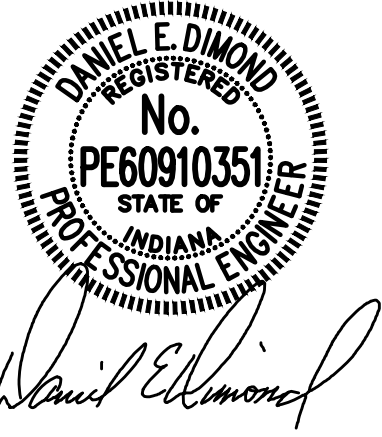


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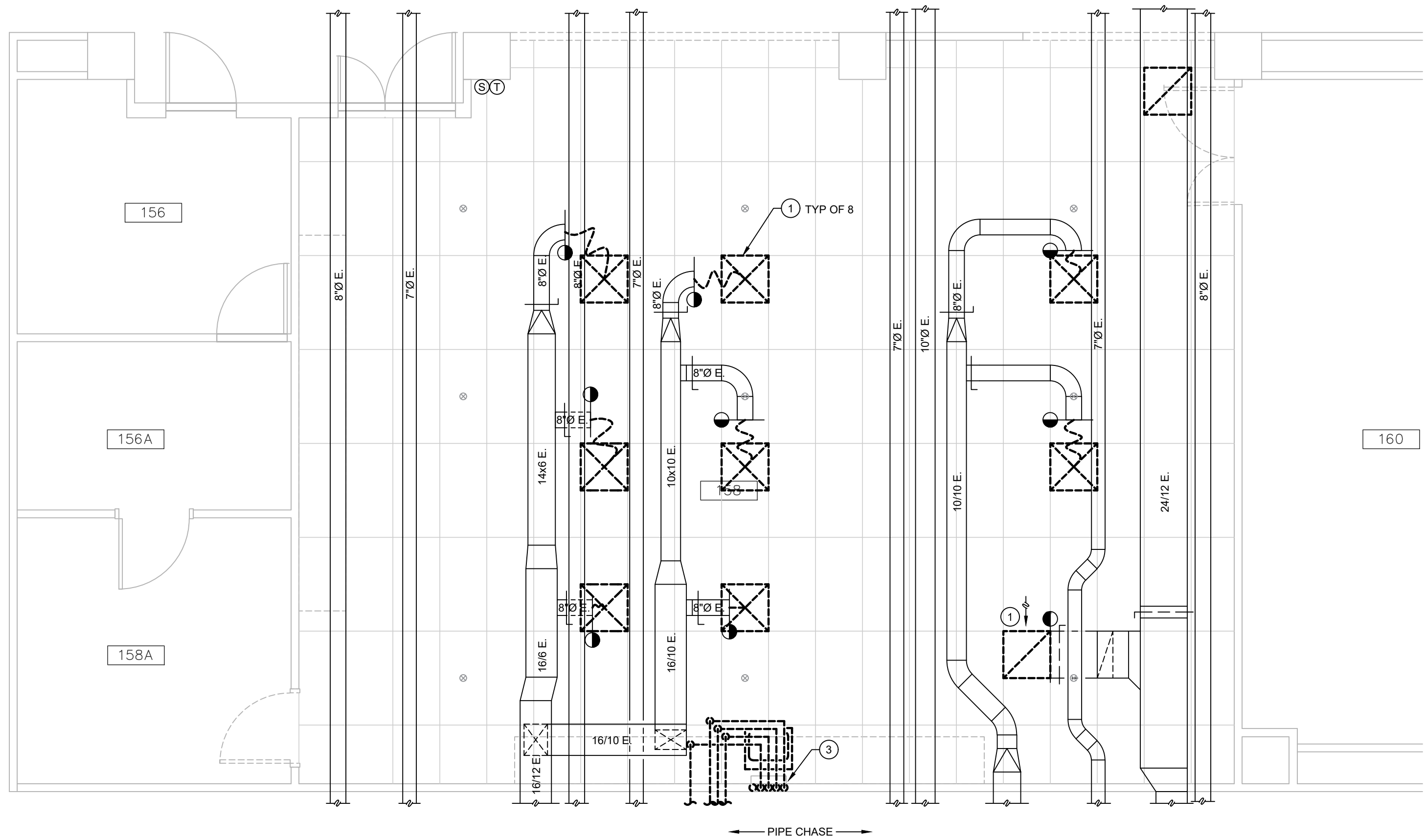
3D VISUALIZATION CENTER
SCIENCE BUILDING
ABBREVIATIONS & SYMBOLS - MECHANICAL

FILENAME:	
PROPERTY NO.:	
REVISIONS	
1	
2	
DATE:	10/18/2019
SCALE:	AS NOTED
DRAWN BY:	VC / VH
CHECKED BY:	ME
APPROVED BY:	DD
PROJECT NO.:	

SHEET NO.:
M001
OF SHEETS

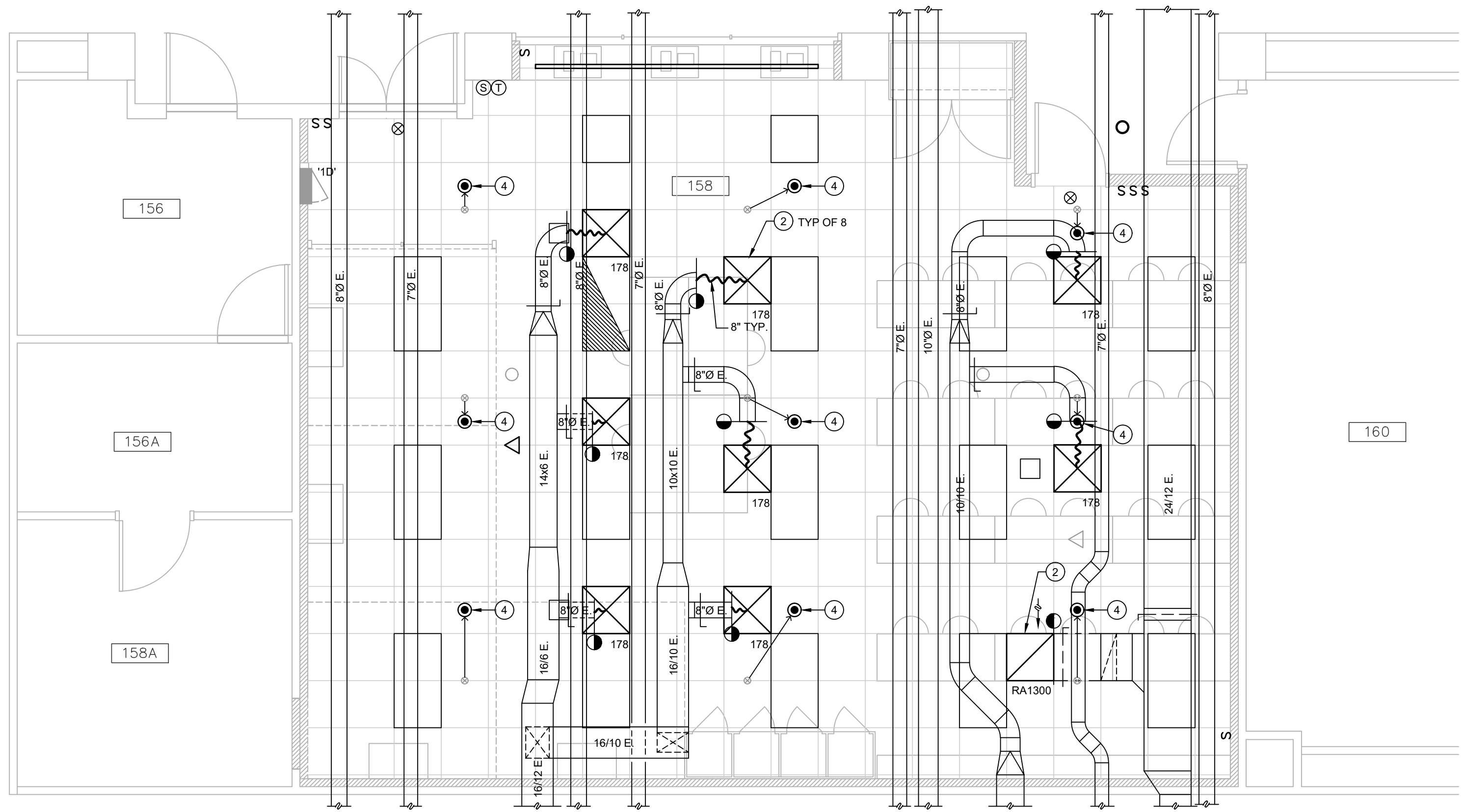


732 N. CAPITAL AVE.
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DA# 19054
R.E. Dimond
and Associates, Inc.
Consulting Engineers



PARTIAL FLOOR PLAN - MECHANICAL DEMOLITION

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



PARTIAL FLOOR PLAN - MECHANICAL

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



GENERAL NOTES

1. SEE DRAWING M001.
2. TEST AND RE-BALANCE THE HVAC SYSTEM FOR THE ROOM TO ELIMINATE EXISTING AIR NOISE AND TO PROVIDE THE BEST PERFORMANCE.

PLAN NOTES

1. REMOVE DIFFUSER/GRILLE AND PREPARE DUCTWORK FOR NEW CONNECTION.
2. INSTALL NEW DIFFUSER/GRILLE AT APPROXIMATELY THIS LOCATION. EXTEND DUCTWORK, AS REQUIRED.
3. DISCONNECT AND REMOVE FAUCET, EYEWASH, AND RO DISPENSER COMPLETE. REMOVE WATER, WASTE, AND VENT PIPING BACK TO MAINS IN PIPE CHASE AND CAP. PATCH WALL TO MATCH EXISTING.
4. DISCONNECT AND REMOVE EXISTING SPRINKLER HEAD. EXTEND ARM-OVER PIPING AS SHOWN AND INSTALL NEW CONCEALED HEAD CENTERED IN 2' x 2' CEILING GRID.



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3D VISUALIZATION CENTER
SCIENCE BUILDING

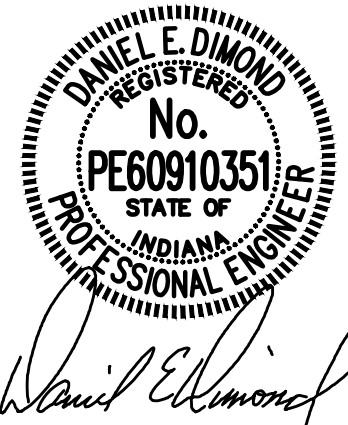
PARTIAL FLOOR PLAN - MECHANICAL

FILENAME:	
PROPERTY NO.:	
REVISIONS	
1	
2	
DATE:	10/18/2019
SCALE:	AS NOTED
DRAWN BY:	VC / VH
CHECKED BY:	ME
APPROVED BY:	ME
PROJECT NO.:	

SHEET NO.:

M201

OF SHEETS



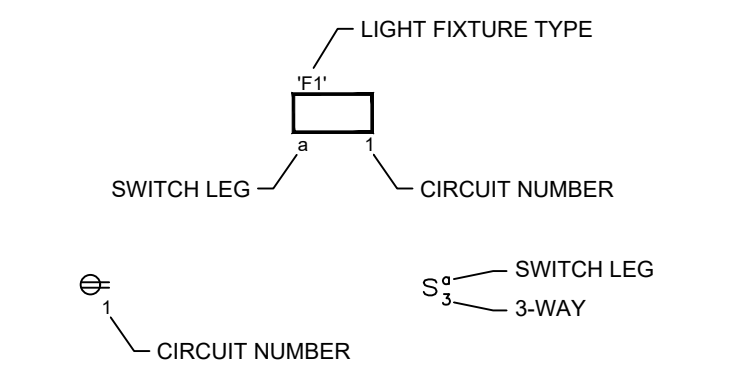
R.E. Dimond
and Associates, Inc.
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DA# 19054

ELECTRICAL ABBREVIATIONS

A	AMPERE	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	OL	OVERLOAD
AC	AIR-CONDITIONING	GFI	GROUND FAULT INTERRUPTER	OPGP	OFFICE PRINCIPAL GROUND POINT
AC	ALTERNATING CURRENT; ARMORED CABLE	GFP	GROUNDING FAULT PROTECTOR	OSSY	OUTSIDE SCREW AND YOKE
ADJ	ADJUSTABLE	GND	GROUND	OZ	OUNCE
AF	AMPERE FUSE; AMPERE FRAME	GP	GENERAL PURPOSE	P	POLE; PULL
AFB	ABOVE FINISHED FLOOR	GPM	GALLONS PER MINUTE	PA	PUBLIC ADDRESS
AFG	ABOVE FINISHED GRADE	GRC	GALVANIZED RIGID CONDUIT	PB	PUSHBUTTON; PULL BOX
AHU	AIR HANDLING UNIT	GRD	GROUND; GROUNDED	PC	POWER CONNECTOR; PHOTOCELL
AIC	AMPERE INTERRUPTING CAPACITY	GRS	GALVANIZED RIGID STEEL	PD	PROTECTIVE DEVICE
AL	ALUMINUM			PE	PROFESSIONAL ENGINEER
ALT	ALTERNATE	H	HIGH	PF	POWER FACTOR
ALUM	ALUMINUM	HACR	HEATING, AIR CONDITIONING & REFRIGERATION	PFCC	POWER FACTOR CORRECTION CAPACITOR
AMP	AMPERE	HD	HEAVY DUTY	PH	PHASE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HG	MERCURY	PV	POST INDICATOR VALVE
AP	ACCESS PANEL	HH	HAND HOLE	PKG	PACKAGE
APPROX	APPROXIMATE	HIC	HIGH INTERRUPTING CAPACITY	PL	PILOT LIGHT
ARCH	ARCHITECT	HO	HIGH OUTPUT	PLBG	PLUMBING
ASYM	ASYMMETRICAL	HOA	HAND-OFF-AUTOMATIC	PNL	PANELBOARD
AT	AMPERE TRIP	HORIZ	HORIZONTAL	PR	PAIR
ATS	AUTOMATIC TRANSFER SWITCH	HP	HORSEPOWER; HIGH PRESSURE	PRI	PRIMARY
AUX	AUXILIARY	HPF	HIGH POWER FACTOR	PSF	POUNDS PER SQUARE FOOT
AVG	AVERAGE	HPS	HIGH PRESSURE SODIUM	PSI	POUNDS PER SQUARE INCH
AWG	AMERICAN WIRE GAUGE	HR	HOUR	PSIG	POUNDS PER SQUARE INCH GAUGE
		HRS/DAY	HOURS PER DAY	PT	POTENTIAL TRANSFORMER
BATT	BATTERY	HSC	HIGH SHORT CIRCUIT	PU	PER UNIT
BD	BOARD	HT	HEIGHT	PVC	POLYVINYL CHLORIDE
BFG	BELOW FINISHED GRADE	HVG	HEATING	PWR	POWER
BLDG	BUILDING	HVS	HEATERS		
BPS	BOLTED PRESSURE SWITCH	HV	HIGH VOLTAGE	QUAN	QUANTITY
BR	BRAKING	HVAC	HEATING, VENTILATION & AIR-CONDITIONING		
BRKR	BREAKER	HW	HOT WATER; HEAVY WALL	R	RESISTANCE; RELOCATED; RECESSED
		HWP	HEATING WATER PUMP	RCS	RELAY CONTROL STATION
C	CONDUIT; CENTIGRADE	HYD	HYDRAULIC	REC2PT	RECEPTACLE
C/C	CENTER TO CENTER	HZ	HERTZ	RECIRC	RECIRCULATING
CAB	CABINET			REF	REFERENCE; REFRIGERATED
CAP	CAPACITY	IC	INTERRUPTING CAPACITY	REQD	REQUIRED
CB	CIRCUIT BREAKER	IDF	INSIDE DIAMETER	RET	RETURN
CCTV	CLOSED CIRCUIT TELEVISION	IDF	INTERMEDIATE DISTRIBUTION FRAME	RF	RETURN FAN
CD	CANDELA; CLOTHES DRYER	IEEE	INSTITUTE OF ELECTRICAL & ELECTRONICS	RG	RIGID GALVANIZED STEEL
CF	CUBIC FEET; COMPACT FLUORESCENT			RJA	RUNNING LOAD AMPS
CHW	CHILLED WATER	IF	INSIDE FROSTED	RMS	ROOT MEAN SQUARE
CHWP	CHILLED WATER PUMP	IG	ISOLATED GROUND	RNC	RIGID NON-METALLIC CONDUIT
CP	CAST IN PLACE	IMC	INTERMEDIATE METAL CONDUIT	RP	RAINPROOF
CIR	CIRCUIT	IMP	IMPEDANCE	RPM	REVOLUTIONS PER MINUTE
CKT	CIRCUIT	IN	INCH	RR	RESTROOM
CLF	CURRENT LIMITING FUSE	INCAND	INCANDESCENT	R&R	REMOVE & REPLACE
CLG	COOLING; CEILING	INCL	INCLUDED; INCLUDING	RS	RAPID START
CM	CONSTRUCTION MANAGER	INST	INSTALLATION	RSC	RIGID STEEL CONDUIT
CMU	CONCRETE MASONRY UNIT	INSUL	INSULATION; INSULATED	RT	RAINTIGHT
CO	CENTRAL OFFICE	INT	INTERIOR; INTERNAL		
COGB	CENTRAL OFFICE GROUND BAR	INV EL	INVERT ELEVATION	S	SOUTH
COL	COLUMN	IS	INSTANT START	SCCR	SHORT-CIRCUIT CURRENT-RATING
COMB	COMBINATION	J	JOULE; JUNCTION	SCHED	SCHEDULE
COMP	COMPRESSOR	J-BOX	JUNCTION BOX	SCR	SHORT CIRCUIT RATING
CONC	CONCRETE			SEC	SERVICE DROP
COND	CONDENSATE; CONDUCTOR	K	THOUSAND	SE	SERVICE ENTRANCE; SERVICE EQUIPMENT
CONT	CONTINUOUS; CONTINUED; CONTRACTOR	KCMIL	THOUSAND CIRCULAR MILS	SD	SECONDARY
CP	CONTROL PANEL	KEC	KITCHEN EQUIPMENT CONTRACTOR	SF	SUPPLY FAN; SQUARE FOOT
CPT	CONTROL POWER TRANSFORMER	KHZ	KILOHERTZ	SL	S LIM LINE; SERVICE LATERAL
CSAC	CENTRAL STATION AIR CONDITIONER	KK	KIRK KEY	SN	SOLID NEUTRAL
CT	CURRENT TRANSFORMER	KP	KEYPAD	SP	SINGLE POLE
CU	COPPER; CUBIC	KV	KILOVOLT	SPD	SURGE PROTECTIVE DEVICE
CU FT	CUBIC FOOT	KVA	KILOVOLT AMPERE	SPOT	SINGLE POLE, DOUBLE THROW
CUH	CABINET UNIT HEATER	KVAR	KILOVOLT AMPERE REACTIVE	SPKR	SPEAKER
CW	COOL WHITE; COLD WATER; CLOTHES WASHER	KW	KILOWATT	SPST	SINGLE POLE, SINGLE THROW
CY	CUBIC YARD	KWH	KILOWATT-HOUR	SQ	SQUARE
CYL	CYLINDER			SQ FT	SQUARE FOOT
				SQ IN	SQUARE INCH
D	DEEP; DEPTH; DISCHARGE	L	LENGTH; LONG	SR	SERVICE RACEWAY; SURFACE RACEWAY
DB	DECIBEL; DIRECT BURIED	LAB	LABORATORY	SS	STAINLESS STEEL; SAFETY SWITCH
DDC	DIRECT CURRENT	LAB STR	MAGNETIC STARTER	S/S	START/STOP
DDC	DIRECT DIGITAL CONTROL	LB	POUND; ELL CONDUIT BODY	ST	STEEL; SHUNT TRIP; SINGLE THROW
DF	DRINKING FOUNTAIN	LEC	LABORATORY EQUIPMENT COMPANY (CONTRACTOR)	STD	STANDARD
DHW	DOMESTIC HOT WATER	LED	LINEAR FOOT	STR	STARTER
DIA	DIAMETER	LEF	LINEAR FOOT	STRUC	STRUCTURAL
DIAG	DIAGONAL	LG	LONG; LENGTH; LARGE	SUBS	SUBCONTRACTORS
DIAM	DIAMETER	LLD	LAMP LUMEN DEPRECIATION	SURF	SURFACE
DIFF	DIFFUSER	LM	LUMEN	SV	SOLENOID VALVE
DISC	DISCONNECT	LO	LOCKOUT	SW	SWITCH
DIST	DISTRIBUTION	LP	LIGHTING PANEL	SWD	SWITCHING DUTY
DN	DOWN	LPF	LOW POWER FACTOR	SWBD	SWITCHBOARD
DP	DUSTPROOF; DOUBLE POLE	LRA	LOCKED ROTOR AMPS	SY	SQUARE YARD
DPDT	DOUBLE POLE, DOUBLE THROW	LT	LIGHT; LIQUID-TIGHT	SYM	SYMMETRICAL
DPST	DOUBLE POLE, SINGLE THROW	LTG	LIGHTING	SYN	SYNTHETIC
DT	DUSTTIGHT; DOUBLE THROW	LTR	LETTER	SYS	SYSTEM
DW	DISHWASHER	LV	LOW VOLTAGE		
DWG	DRAWING			T	TEMPERATURE; TRANSFORMER
DX	DIRECT EXPANSION	M	THOUSAND; MATERIAL; MECHANICAL; METER	TB	TERMINAL BLOCK
		MA	MILLIAMPERE	TC	TIME CLOCK
E	EQUIPMENT ONLY; EAST; ELECTRICAL; EXISTING	MACH	MACHINE	TCO	TEMPERATURE CONTROL CONTRACTOR
EACH	EACH	MAG STR	MAGNETIC STARTER	TD	TIME DELAY
EBBR	ELECTRIC BASEBOARD RADIATION	MAINT	MAINTENANCE	TELE	TELEPHONE
EB	ELECTRONIC BALLAST	MAN	MANUAL	TFE	TETRAFLUOROETHYLENE
EBC	ELECTRONIC CONTRACTOR	MAT	MATERIAL	TFF	TOP OF FINISHED FLOOR
EF	EXHAUST FAN	MAV	MASTER ANTENNA TELEVISION	TFR	TRANSFORMER
EGC	EQUIPMENT GROUNDING CONDUCTOR	MAX	MAXIMUM	TH	THICK
EIFS	EXTERIOR INSULATION FINISH SYSTEM	MC	METAL CLAD CABLE; MECHANICAL CONTRACTOR;	THD	TOTAL HARMONIC DISTORTION; THREAD
ELECT	ELECTRICIAN; ELECTRICAL; ELECTRONIC			TR	TAMPER RESISTANT
ELEV	ELEVATOR; ELEVATION	MCA	MINIMUM CIRCUIT AMPS	TS	TRIGGER START
EM	EMERGENCY	MCB	MAIN CIRCUIT BREAKER	TSB	TELEPHONE TERMINAL BOARD
EMERG	EMERGENCY	MCC	MOTOR CONTROL CENTER	TV	TELEVISION
EMS	ENERGY MANAGEMENT SYSTEM	MCCB	MOLDED CASE CIRCUIT BREAKER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
EMT	ELECTRICAL METALLIC TUBING	MCM	THOUSAND CIRCULAR MILS	TYP	TYPICAL
ENCL	ENCLOSURE	MCP	MOTOR CIRCUIT PROTECTOR		
ENG	ENGINE; ENGINEERED	MCS	MOTOR CIRCUIT SWITCH	UC	UNDER (CABINET OR COUNTER)
ENGR	ENGINEER	MDF	MAIN DISTRIBUTION FRAME	UF	UNDERGROUND FEEDER
EP	EXPLOSIONPROOF; ELECTRIC-PNEUMATIC	MDP	MAIN DISTRIBUTION PANELBOARD	UH	UNDERGROUND
EQUIP	EQUIPMENT	MED	MEDIUM	UNIT	UNIT HEATER
ER	EXISTING TO REMAIN	MED	MEDIUM	UHF	ULTRA HIGH FREQUENCY
ES	ENERGY SAVER	MFG	MANUFACTURING	UL	UNDERWRITERS LABORATORY
EST	ESTIMATED	MFR	MANUFACTURER	UNFIN	UNFINISHED
EWC	ELECTRIC WATER COOLER	MH	MANHOLE; METAL HALIDE; MAN-HOUR	UOI	UNLESS OTHERWISE INDICATED
EW	ELECTRIC WATER HEATER	MHZ	MEGAHERTZ	UTIL	UTILITY
EX	EXISTING	MI	MALLEABLE IRON; MINERAL INSULATED	UTP	UNSHIELDED TWISTED PAIR
EXCAV	EXCAVATION	MIC	MICROPHONE	UVR	UNDERVOLTAGE RELAY (RELEASE)
EXIST	EXISTING	MIN	MINIMUM; MINUTE		
EXH	EXHAUST	MISC	MISCELLANEOUS	V	VOLT; VENTILATION
EXP	EXPOSED	MLO	MAIN LUG ONLY	VA	VOLT AMPERES
EXR	EXISTING RELOCATED	MO	MONTH	VAR	VOLT-AMPERES REACTIVE
EXT	EXTERIOR	MOBIL	MOBILIZATION	VAV	VARIABLE AIR VOLUME
EXTG	EXISTING	MOC	MAXIMUM OVERCURRENT PROTECTION	VDT	VIDEO DISPLAY TERMINAL
		MOD	MODUL	VERT	VERTICAL
F	FUSED; FAHRENHEIT	MTD	MOUNTED	VFD	VARIABLE FREQUENCY DRIVE
FA	FIRE ALARM	MTG	MOUNTING	VHF	VERY HIGH FREQUENCY
FACP	FIRE ALARM ANNUNCIATOR PANEL	MTR	MANUAL TRANSFER SWITCH	VHO	VERY HIGH OUTPUT
FACF	FIRE ALARM CONTROL PANEL	MULT	MULTI; MULTIPLY	VOL	VOLUME
FC	FOOT-CANDLE	MV	MERCURY VAPOR; MEGAVOLT; MEDIUM VOLTAGE	VOT	VAPORTIGHT
FCD	FAN COIL UNIT	MVA	MEGAVOLT AMPERES		
FD	FUSED DISCONNECT	MVAR	MEGAVOLT AMPERES REACTIVE	W	WIRE; WATT; WIDE; WEST; WASTE
FDR	FEEDER	MW	MEGAWATT	W	WITH
FEP	FLUORINATED ETHYLENE PROPYLENE			WG	WIRE GUARD
FEC	FOODSERVICE FACILITIES EQUIPMENT CONTRACTOR	N	NORTH; NEW; NEUTRAL	WM	"WIRED" (SURFACE RACEWAY)
FIG	FIGURE	N/A	NOT AVAILABLE; NOT APPLICABLE	WO	WELDER OUTLET
FIN	FINISHED	NA	NON-AUTOMATIC	WP	WEATHERPROOF
FIXT	FIXTURE	NAT	NATURAL	WT	WEIGHT; WATERTIGHT
FLA	FULL LOAD AMPS	NC	NORMALLY CLOSED	WWF	WELDED WIRE FABRIC
FLR	FLOOR	ND	NORMAL DUTY	WW	WELL WATER; WARM WHITE
FLUOR	FLUORESCENT	NEMA	NATIONAL ELECTRICAL CODE		
FM	FREQUENCY MODULATION; FACTORY MUTUAL	NF	NON-FUSED	XHD	EXTRA HEAVY DUTY
FPM	FEET PER MINUTE	NFD	NON-FUSED DISCONNECT	XFMR	TRANSFORMER
FR	FIRE RATING	NIC	NOT IN CONTRACT	XFER	TRANSFER
FT	FOOT; FEET	NL	NIGHT LIGHT		
FTG	FITTING; FOOTING	NO	NON-METALLIC SHEATHED CABLE	Y	WYE
FURN	FURNISHED	NO	NUMBER; NORMALLY OPEN	Δ	DEGREE
FVNR	FULL VOLTAGE NON-REVERSING	NTS	NOT TO SCALE	Δ	DELTA
				Ø	PHASE; DIAMETER
G	GROUND			#	ROUND; NUMBER
GA	GALVE	O&P	OVERHEAD AND PROFIT	%	PERCENT
GAL	GALLON	OC	ON CENTER; OVERCURRENT	@	AT
GALV	GALVANIZED	OD	OUTSIDE DIAMETER	~	APPROXIMATELY
GC	GENERAL CONTRACTOR	OOS	OVERHEAD DISTRIBUTION SYSTEM	°	FEET
GEN	GENERAL; GENERATOR	OH	OVERHEAD	°	INCHES
		OHD	OVERHEAD DOOR		

TYPICAL DEVICE DESIGNATIONS



CIRCUIT DESCRIPTIONS

CIRCUIT NUMBER:	
PANEL - CIRCUIT NUMBER (I.E. A1-1)	
MULTIPLE INDIVIDUAL CIRCUIT NUMBERS:	
PANEL - CIRCUIT NUMBER, CIRCUIT NUMBER, CIRCUIT NUMBER (I.E. A1-1,3,5)	
2-POLE CIRCUIT NUMBER	
PANEL - CIRCUIT NUMBER/CIRCUIT NUMBER (I.E. A1-1/3)	
3-POLE CIRCUIT NUMBER	
PANEL - CIRCUIT NUMBER/CIRCUIT NUMBER/CIRCUIT NUMBER (I.E. A1-1/3/5)	

RACEWAYS

—	CONDUIT, IN WALL OR CEILING
— — —	CONDUIT, BELOW FLOOR
---	CONDUIT, EXPOSED
— W —	SURFACE RACEWAY ("WIRED")
— O —	CONDUIT, TURNING UP
— ● —	CONDUIT, TURNING DOWN
— 3 —	CONDUIT, CAPPED
— 3 —	UNDERFLOOR DUCT & JUNCTION BOX, SINGLE SYSTEM
— 3 —	UNDERFLOOR DUCT & JUNCTION BOX, DUAL SYSTEM
— 3 —	UNDERFLOOR DUCT & JUNCTION BOX, TRIPLE SYSTEM
— 3 —	JUNCTION BOX
— 3 —	PULL BOX

RECEPTACLES AND OUTLETS

⊕	DUPLEX RECEPTACLE
⊕	DOUBLE DUPLEX (QUAD) RECEPTACLE
⊕	ISOLATED GROUND DUPLEX RECEPTACLE
⊕	ISOLATED GROUND DOUBLE DUPLEX (QUAD) RECEPTACLE
⊕	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
⊕	DOUBLE DUPLEX (QUAD) GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
⊕ WP	GROUND FAULT CIRCUIT INTERRUPTER/WEATHERPROOF ROOF DUPLEX RECEPTACLE
⊕	SINGLE RECEPTACLE
⊕	FLOOR OUTLET
⊕	SPECIAL OUTLET OR EQUIPMENT CONNECTION (AS NOTED)
⊕	DROP CORD (AS NOTED)
⊕	POWER POLE

SWITCHES

S	SWITCH, SINGLE POLE
S ₂	SWITCH, DOUBLE POLE
S ₃	SWITCH, THREE WAY
S ₄	SWITCH, FOUR WAY
S _K	SWITCH, KEY OPERATED
S _P	SWITCH, WITH PILOT LIGHT
S WP	SWITCH, WEATHERPROOF
S ₃	SWITCH, DIMMER
S ₃	MULTI-TECHNOLOGY CEILING OCCUPANCY SENSING
S ₃	ULTRASONIC CEILING OCCUPANCY SENSING
S ₃	PASSIVE INFRARED CEILING OCCUPANCY SENSING
S ₃	SINGLE POLE WALL OCCUPANCY SENSOR
S ₃	TWO POLE WALL OCCUPANCY SENSOR
S ₃	TIMECLOCK
S ₃	PHOTOCELL
S ₃	RELAY PANEL
S ₃	LIGHTING CONTACTOR
S ₃	SWITCH, SPRING WOUND, INTERVAL TIME SWITCH

TECHNOLOGY

◀	VOICE/DATA OUTLET (ONE CAT. 6A VOICE/ONE CAT. 6A DATA - JACKS AND CABLES)
◀	VOICE/DATA/COAX (RF) OUTLET (ONE CAT. 6A VOICE/ONE CAT. 6A DATA/ONE RG-6 COAX - JACKS AND CABLES)
◀2D	VOICE/DATA/DATA/COAX (RF) OUTLET (ONE CAT. 6A VOICE/TWO CAT. 6A DATA/ONE RG-6 COAX - JACKS AND CABLES)
◀D	DATA/DATA/COAX (RF) OUTLET (TWO CAT. 6A DATA/ONE RG-6 COAX - JACKS AND CABLES)
◀	SINGLE OR SPECIAL OUTLET AS INDICATED (V=CAT. 6A VOICE; D=CAT. 6A DATA; C=RG-6 COAX), EXAMPLE:
◀W	WALL PHONE OUTLET (ONE CAT. 6A VOICE - JACK AND CABLE)
◀311	EMERGENCY WALL PHONE OUTLET (ONE CAT. 6A VOICE - JACK AND CABLE)
◀ENS	EMERGENCY NOTIFICATION SYSTEM WALL OUTLET (ONE CAT. 6A DATA - JACK AND CABLE)
◀AP	WIRELESS ACCESS CONNECTION POINT (TWO CAT. 6A DATA - JACKS AND CABLES) - PROVIDE 10'-0" SERVICE LOOP AND RED RJ45 JACKS ABOVE CEILING.
◀TV	TELEVISION OUTLET (ONE CAT. 6A DATA/ONE RG-6 COAX - JACK AND CABLE) - VERIFY EXACT OUTLET (& DUPLEX RECEPT.) LOCATION WITH OWNER.
	NOTE: COLOR OF DATA JACKS SHALL MATCH WIRING DEVICES, AP JACKS SHALL BE RED AND PHONE JACKS SHALL BE BLUE, UNLESS OTHERWISE DIRECTED.
◀P	PROJECTOR (SEE AV SPECS)

PANELS

⊕	PANEL, FLUSH
⊕	PANEL, SURFACE
⊕	CONTROL PANEL (AS NOTED), FLUSH
⊕	CONTROL PANEL (AS NOTED), SURFACE

LIGHT FIXTURES

⊕	LIGHT, CEILING
⊕	LIGHT, CEILING
⊕	LIGHT, WALL
⊕	EXIT LIGHT, CEILING
⊕	EXIT LIGHT, WALL
⊕	EXIT LIGHT WITH DIRECTIONAL ARROW, CEILING
⊕	EXIT LIGHT WITH DIRECTIONAL ARROW, WALL
⊕	EMERGENCY LIGHTING UNIT
⊕	TRACK LIGHT FIXTURE
NL	NIGHT LIGHT WITH 'NL' SUBSCRIPT
⊕	EMERGENCY LIGHT

ELECTRONIC SECURITY

⊕	DOOR CONTACT
⊕	PASSIVE INFRARED DETECTOR
⊕	KEYPAD
⊕	VIDEO SURVEILLANCE CAMERA (WALL)
⊕	VIDEO SURVEILLANCE CAMERA (CEILING)
⊕	CARD READER
⊕	ELECTRIC LATCH
⊕	POWER SUPPLY
⊕	CONTROL PANEL

PUBLIC ADDRESS

⊕	INTERCOM CALL SWITCH
⊕	BELL
⊕	BUZZER
⊕	MICROPHONE OUTLET
⊕	SPEAKER VOLUME CONTROL
⊕	WALL MOUNTED SPEAKER (SQUARE)
⊕	WALL MOUNTED SPEAKER (ROUND)
⊕	CEILING MOUNTED SPEAKER (ROUND)
⊕	CEILING MOUNTED SPEAKER (SQUARE)
⊕	HORN-PAGING

MISCELLANEOUS

⊕	CLOCK (WALL)
⊕	CLOCK (CEILING)
⊕	PUSHBUTTON
⊕	UP/DOWN PUSHBUTTON
⊕	UP/DOWN/STOP PUSHBUTTON
⊕	HORN

FIRE ALARM SYSTEMS

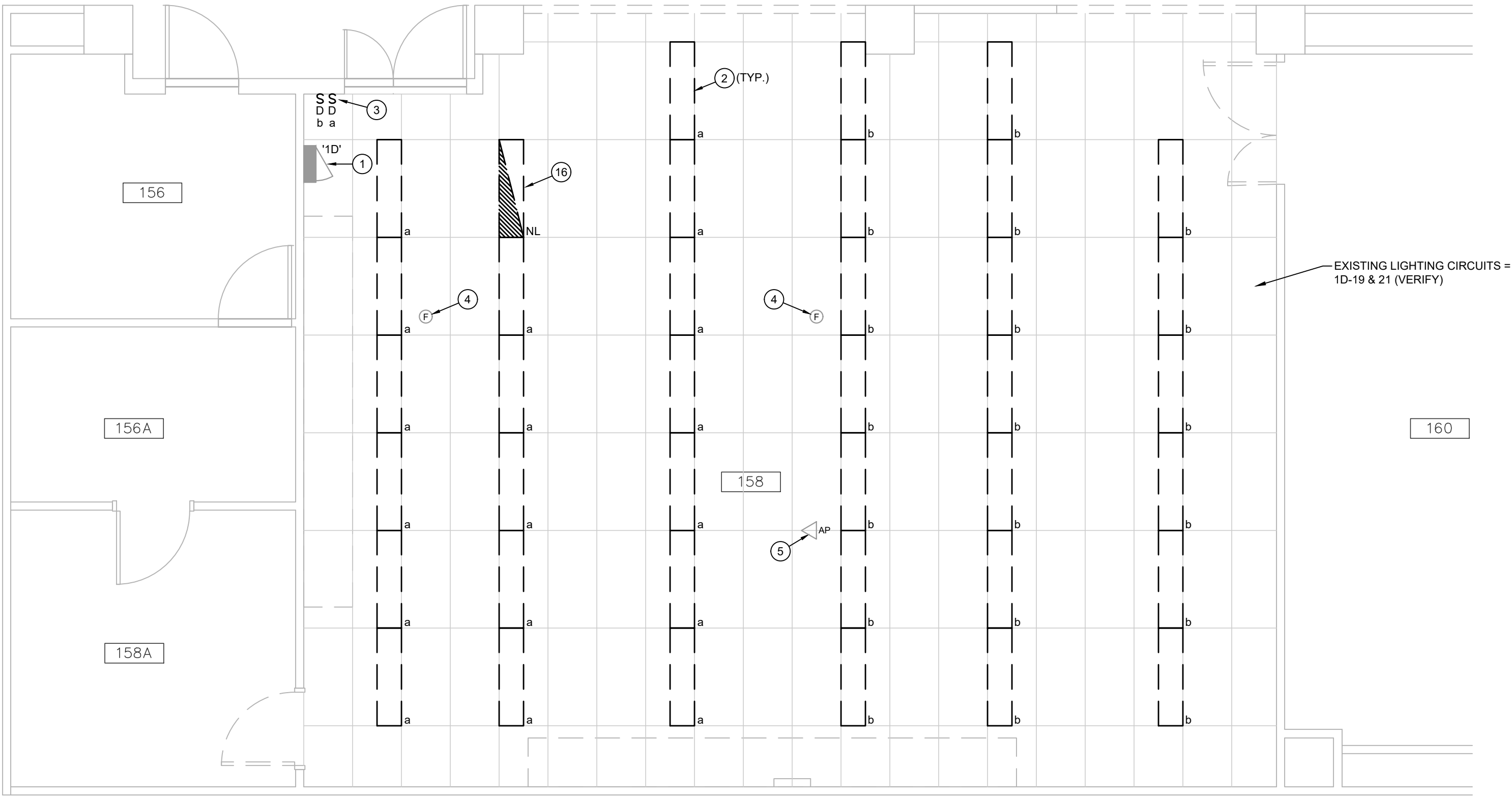
⊕	FIRE ALARM CONTROL PANEL
⊕	FIRE ALARM ANNUNCIATOR
⊕	VOICE COMMAND CENTER
⊕	MANUAL PULL STATION
⊕	FIRE ALARM HORN (SPEAKER)-STROBE
⊕	FIRE ALARM STROBE (CEILING MOUNTED)
⊕	FIRE ALARM BELL
⊕	MAGNETIC DOOR HOLDER
⊕	SMOKE DETECTOR
⊕	DUCT TYPE SMOKE DETECTOR
⊕	HEAT DETECTOR
⊕	SPRINKLER FLOW SWITCH
⊕	SPRINKLER TAMPER SWITCH
⊕	EMERGENCY VOICE-ALARM LOUDSPEAKER

POWER EQUIPMENT

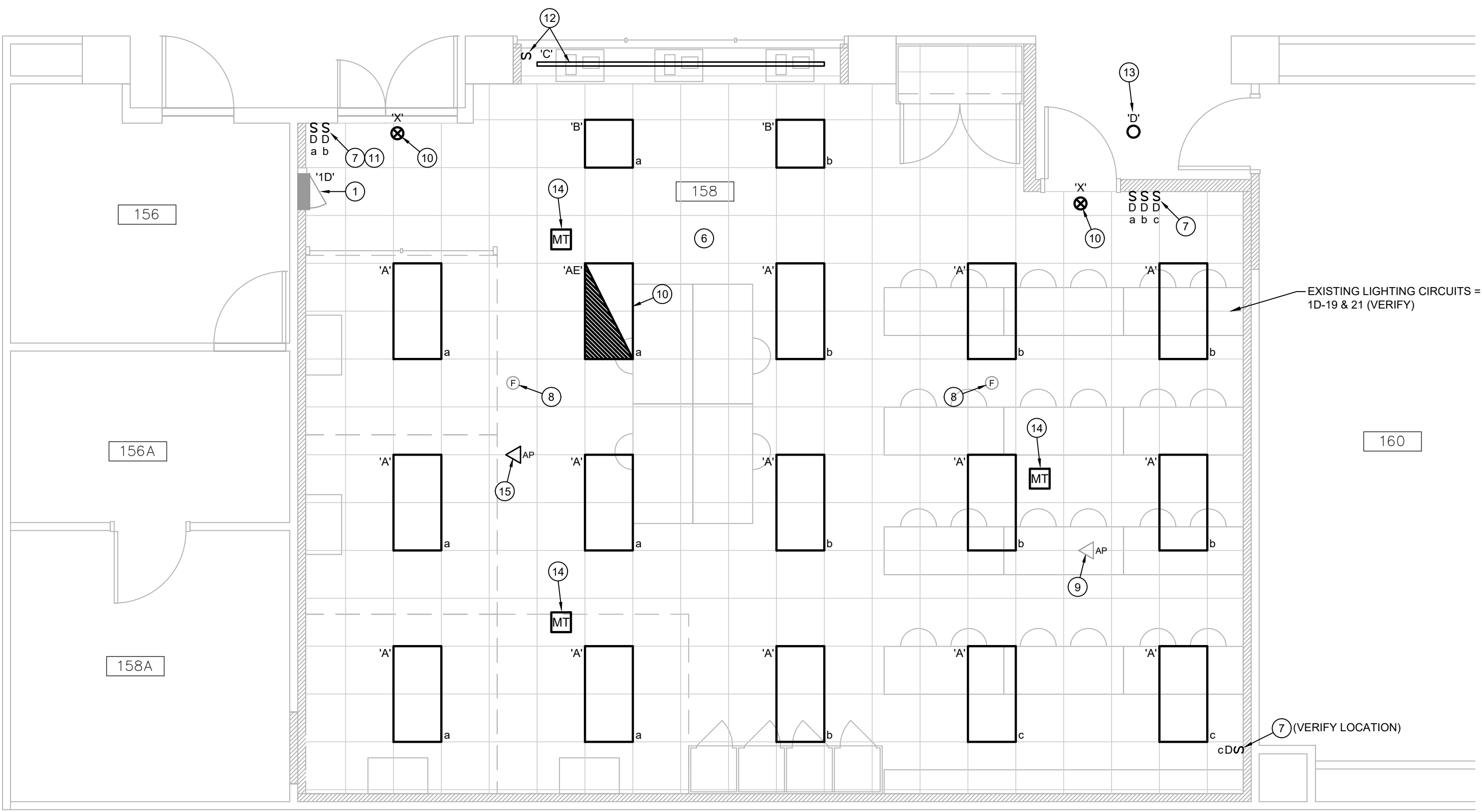
⊕	1-PHASE MOTOR
⊕	3-PHASE MOTOR
⊕	DISCONNECT
⊕	MANUAL MOTOR STARTER
⊕	MANUAL MOTOR STARTER WITH PILOT SWITCH
⊕	MAGNETIC MOTOR STARTER
⊕	COMBINATION DISCONNECT & MAGNETIC MOTOR STARTER
⊕	SMALL TRANSFORMER

GENERAL NOTES (RENOVATION):

- COORDINATE LOCATIONS OF ALL DEVICES TO BE INSTALLED IN CEILINGS (LIGHTS, SPEAKERS, DETECTORS, ETC.) WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION.
- ALL 120 VOLT CIRCUITS SHALL UTILIZE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS. DO NOT SHARE NEUTRALS.
- CONTRACTOR SHALL COORDINATE WITH ALL TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR INCORRECT WORK, OR FOR INFRINGEMENT UPON OTHERS WORK, DUE TO A LACK OF COORDINATION.
- DEVICES IN GENERAL SHALL BE CENTERED IN WALL SPACE IN WHICH THEY ARE INSTALLED OR THEY SHALL BE SPACED SYMMETRICALLY (FOR EXAMPLE, CENTER DEVICES WHEN MOUNTED ON FACE OF COLUMNS).
- COORDINATE & VERIFY LOCATIONS OF DEVICES W/ BLOCK COURSING, FINISH MATERIALS, CASEWORK, ETC. PRIOR TO ROUGH-IN.
- WIRING TO ALL RECEPTACLES ON DEDICATED CIRCUITS SHALL BE #10 MINIMUM UNLESS OTHERWISE NOTED.
- ALL WIRING SHALL BE MINIMUM #12 AWG. IN 3/4" CONDUIT UNLESS OTHERWISE NOTED OR REQUIRED.
- CONTRACTOR SHALL COORDINATE OCCUPANCY SENSOR LOCATIONS AND ARRANGE FOR BEST OPERATION. COMMISSION AND COORDIN



PARTIAL FLOOR PLAN - LIGHTING DEMOLITION
SCALE: 1/4" = 1'-0"
NORTH



PARTIAL FLOOR PLAN - LIGHTING
SCALE: 1/4" = 1'-0"
NORTH

RENOVATION LEGEND

- EXISTING WORK TO BE REMOVED
EXISTING WORK TO REMAIN.
WORK TO BE INSTALLED.

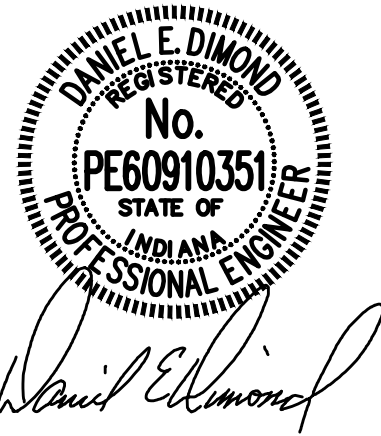
GENERAL NOTES

1. SEE DRAWING E001.
2. EXISTING LIGHTING CIRCUITS ARE 120V FED FROM EXISTING PANEL '1D'.

PLAN NOTES

1. EXISTING PANEL '1D' TO REMAIN. 125A, 120/208V, 3Ø.
2. REMOVE LIGHT FIXTURES AND WIRING BACK TO PANEL '1D'.
3. REMOVE TWO LUTRON DIMMERS AND WIRING. DEVICE BOX TO BE REUSED.
4. REMOVE SMOKE DETECTOR FROM CEILING AND MAKE SAFE FOR REUSE. PROTECT WIRING.
5. REMOVE WIRELESS ACCESS POINT FROM CEILING AND MAKE SAFE FOR REUSE. PROTECT WIRING.
6. CONNECT LIGHTS TO EXISTING LIGHTING CIRCUITS FROM EXISTING PANEL '1D'.
7. PROVIDE LEVITON RENOR II 0-10V MULTI-LOCATION DIMMERS.
8. REINSTALL EXISTING SMOKE DETECTOR ONTO NEW CEILING. EXTEND EXISTING WIRING AS REQUIRED.
9. REINSTALL EXISTING WIRELESS ACCESS POINT ONTO NEW CEILING. EXTEND EXISTING WIRING AS REQUIRED.
10. CONNECT LIGHT FIXTURES TO EXISTING EMERGENCY CIRCUIT.
11. INSTALL DEVICE IN EXISTING SWITCH BOX.
12. CONNECT LIGHT FIXTURE 'C' TO CORRIDOR LIGHTING CIRCUIT (277V) AND PROVIDE H-O-A SWITCH. IN AUTO, LIGHT IS CONTROLLED WITH CORRIDOR LIGHTS. IN HAND, LIGHT IS ON.
13. CONNECT LIGHT TO EXISTING CORRIDOR LIGHTING CIRCUIT (277V). EXTEND FROM NEAREST EXISTING FIXTURE.
14. PROVIDE OCCUPANCY SENSOR & POWER PACK AND WIRE TO CONTROL LIGHTS IN ROOM.
15. PROVIDE FOR A NEW WIRELESS ACCESS POINT ON NEW CEILING.
16. DISCONNECT EXISTING EMERGENCY LIGHTING CIRCUIT AND PREPARE FOR REUSE.

LIGHTING FIXTURE SCHEDULE							
MARK	DESCRIPTION	MOUNTING	FIXTURE LOAD (VA)	LAMP		VOLTAGE (VERIFY)	
				TYPE	TEMP. LUMENS		
'A'	2'X4' ARCHITECTURAL TROFFER, ANGLED LENS, DIFFUSE CENTER OPTIC, 0-10V DIMMING, HIGH OUTPUT, WHITE FINISH, 10-YEAR WARRANTY. FINELITE HPR-LED-A-2X4-DCO-H-835-120V-SC-C1	RECESSED IN GRID	41	LED	3500K 5416 (MIN.)	120V	
'AE'	SAME AS 'F1', EXCEPT WITH TWO INTEGRAL UL924 EMERGENCY TRANSFER RELAYS. FINELITE HPR-LED-A-2X4-DCO-H-835-120V-SC-C1-(2)JUL924	RECESSED IN GRID	41	LED	3500K 5416 (MIN.)	120V	
'B'	SAME AS 'F1', EXCEPT 2'X2'. FINELITE HPR-LED-A-2X2-DCO-H-835-120V-SC-C1	RECESSED IN GRID	28	LED	3500K 3397 (MIN.)	120V	
'C'	12-FOOT LONG, 2-INCH WIDE, 4-INCH TALL LINEAR, 0-10V DIMMING, STANDARD OUTPUT, WHITE FINISH, FLANGED TRIM, 10-YEAR WARRANTY. FINELITE HP-2R-12-S-835-F-277V-FE-SC-VF	RECESSED IN DRYWALL	56	LED	3500K 3444 (MIN.)	277V	
'D'	6-INCH DOWNLIGHT, 0-10V DIMMING, 45-DEGREE DISTRIBUTION, CLEAR REFLECTOR, SELF-FLANGED, 5-YEAR WARRANTY. PRESCOLITE #LF6SL-6LFS1500-35K-B24	RECESSED	19	LED	3500K 1500 (MIN.)	277V	
'X'	EXIT SIGN, RED LETTERS, SINGLE FACE, UNIVERSAL MOUNT, WHITE THERMOPLASTIC HOUSING, NICAD BATTERY, 2-YEAR WARRANTY, SELF-POWERED. HUBBELL #COMPASS CER SERIES	UNIVERSAL	2	LED	RED -	UNV	



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3D VISUALIZATION CENTER
SCIENCE BUILDING
PARTIAL FLOOR PLAN - LIGHTING

FILENAME:	
PROPERTY NO.:	
REVISIONS	
1	
2	
DATE:	10/18/2019
SCALE:	AS NOTED
DRAWN BY:	V. CARNEY
CHECKED BY:	D. WARNER
APPROVED BY:	D. DIMOND
PROJECT NO.:	

SHEET NO.:
E201
OF SHEETS



- PARTIAL FLOOR PLAN**
SCALE: APPROX. 1" = 60'-0" (VERIFY)