WEST HALL RENOVATION

NM INSTITUTE OF MINING AND TECHNOLOGY
801 Leroy Place, Socorro, NM 87801

100% CONTRACT DOCUMENT PACKAGE

JUNE 2020

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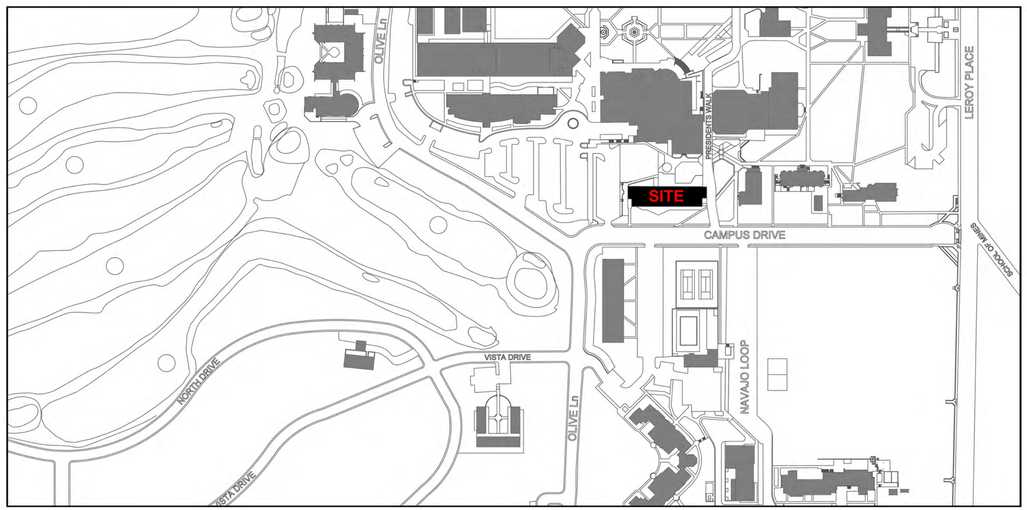

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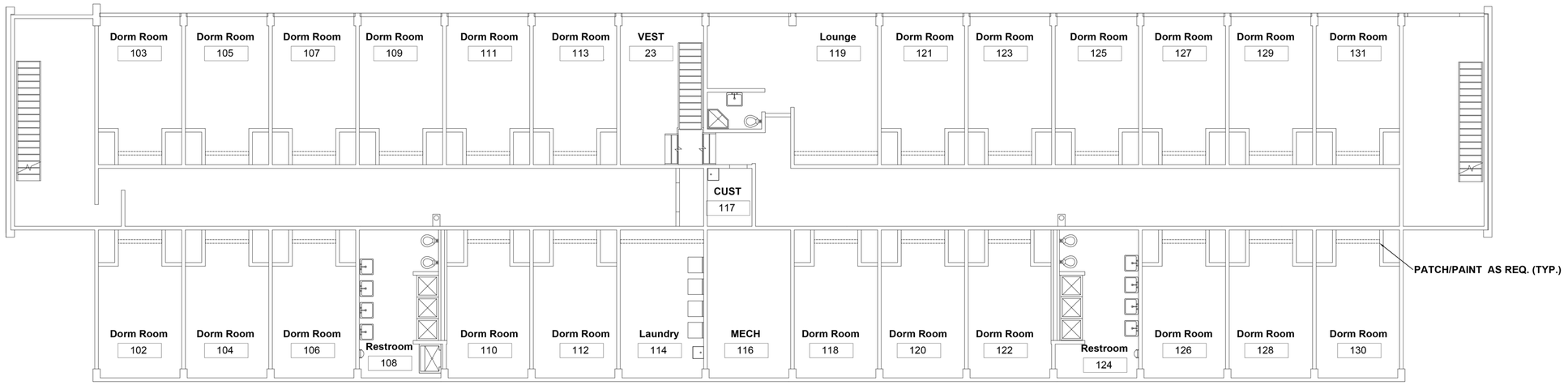
No.	Description	Date

Project number	97854
Date	8 June, 2020
Drawn by	MDE
Checked by	JH

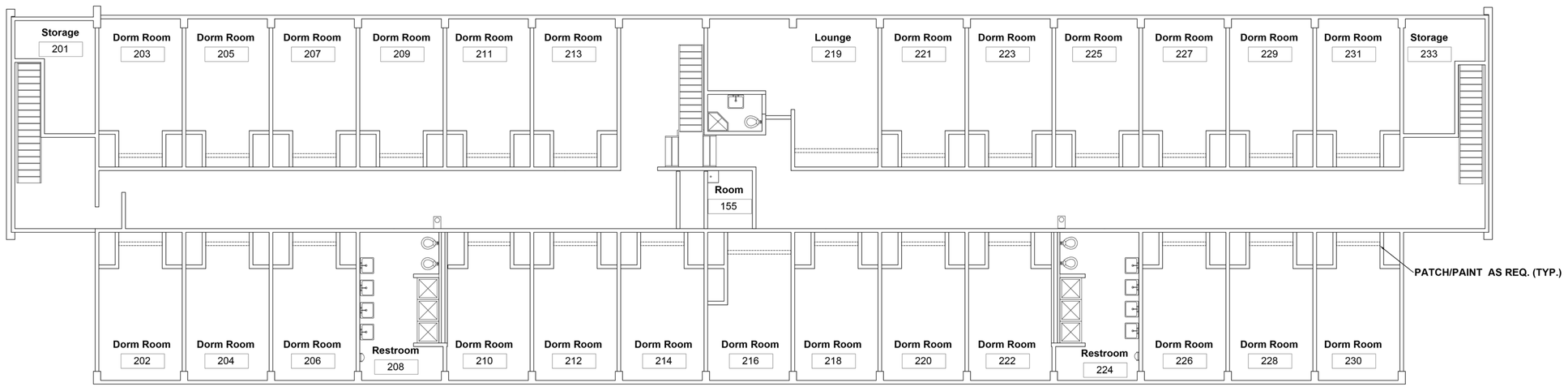
G-001

Scale 1/8" = 1'-0"

30 January, 2020



1 First Floor - Demo
1/8" = 1'-0"



2 Second Floor - Demo
1/8" = 1'-0"

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JASON HEBERT
NEW MEXICO
25214
PROFESSIONAL ENGINEER
5/21/21

No.	Description	Date

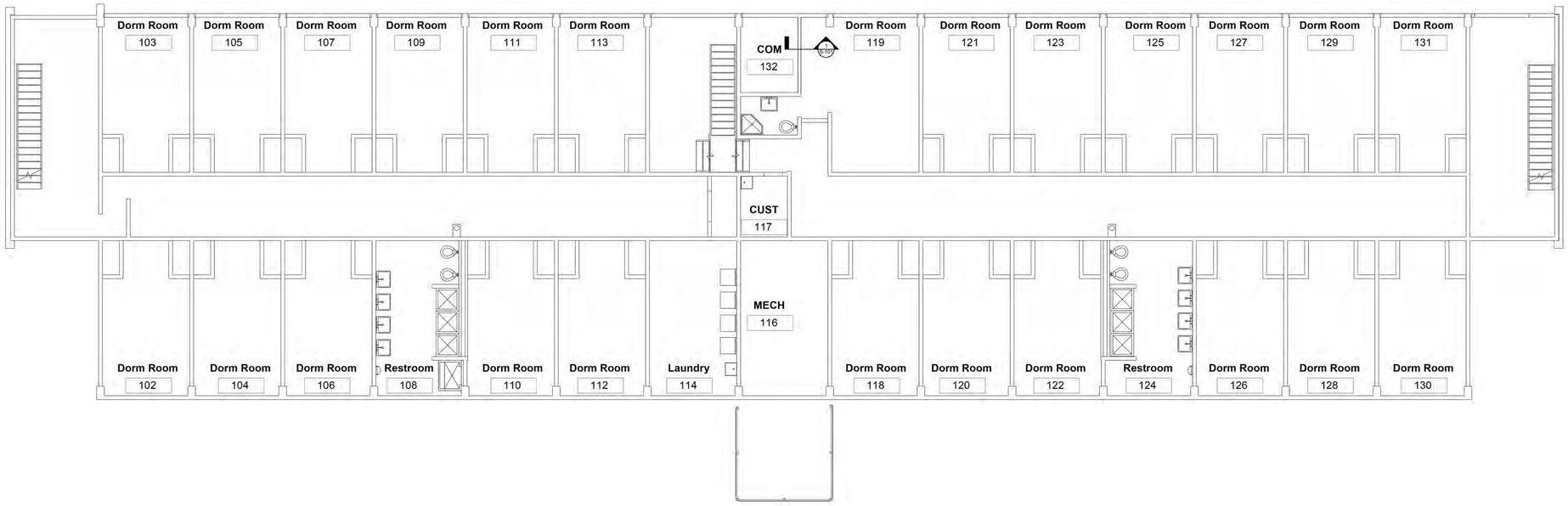
NMT
West Hall
FLOOR PLANS DEMO

Date	Issue Date
Drawn by	MDE
Checked by	JH

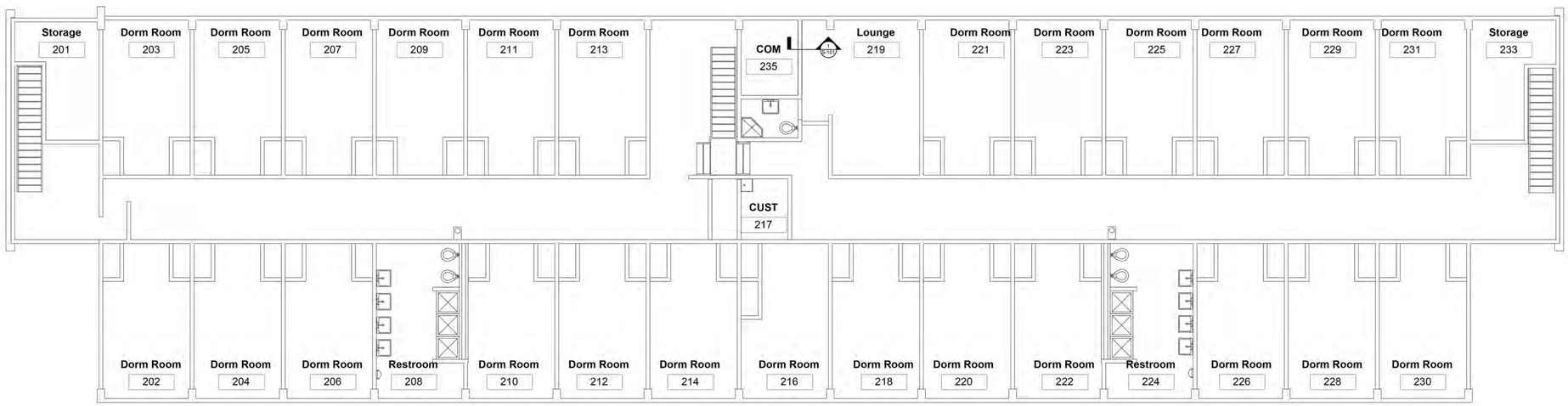
A101

Scale 1/8" = 1'-0"

6/17/2020 12:09:28 PM



1 First Floor - New Construction
1/8" = 1'-0"



2 Second Floor - New Construction
1/8" = 1'-0"

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JASON HEBERT
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PROFESSIONAL ENGINEER
5/21/21

No.	Description	Date

NMT
West Hall
FLOOR PLANS NEW WORK

Date	Issue Date
Drawn by	MDE
Checked by	JH

A102

Scale 1/8" = 1'-0"

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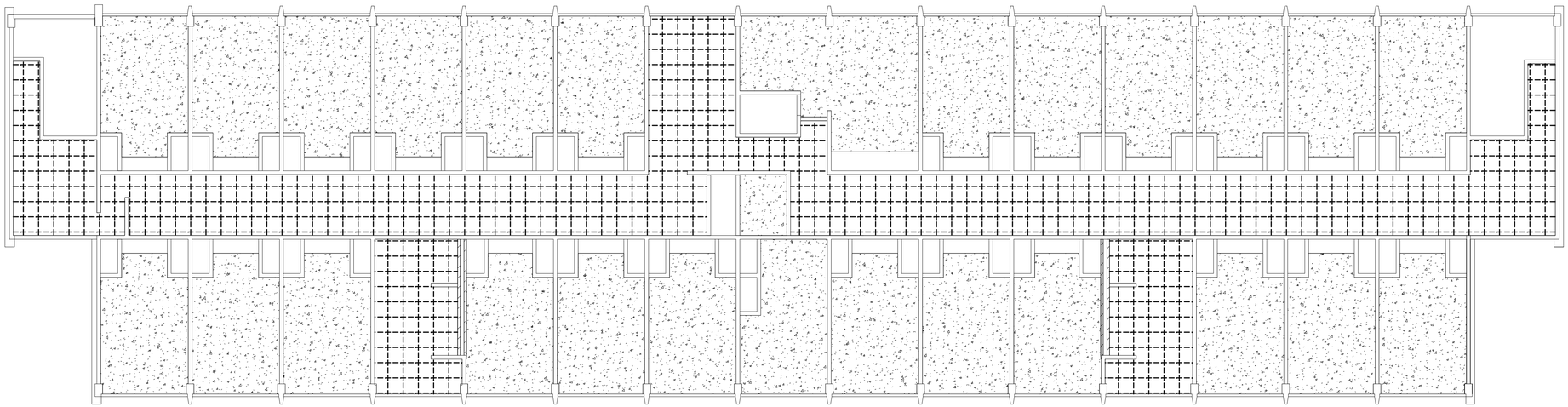
1 First Floor Ceiling Plan - Demo
1/8" = 1'-0"



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

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JASON HEBERT
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PROFESSIONAL ENGINEER
5/21/21

No.	Description	Date

NMT

West Hall

CEILING PLANS DEMO

Date	Issue Date
Drawn by	MDE
Checked by	JH

A103

Scale	1/8" = 1'-0"

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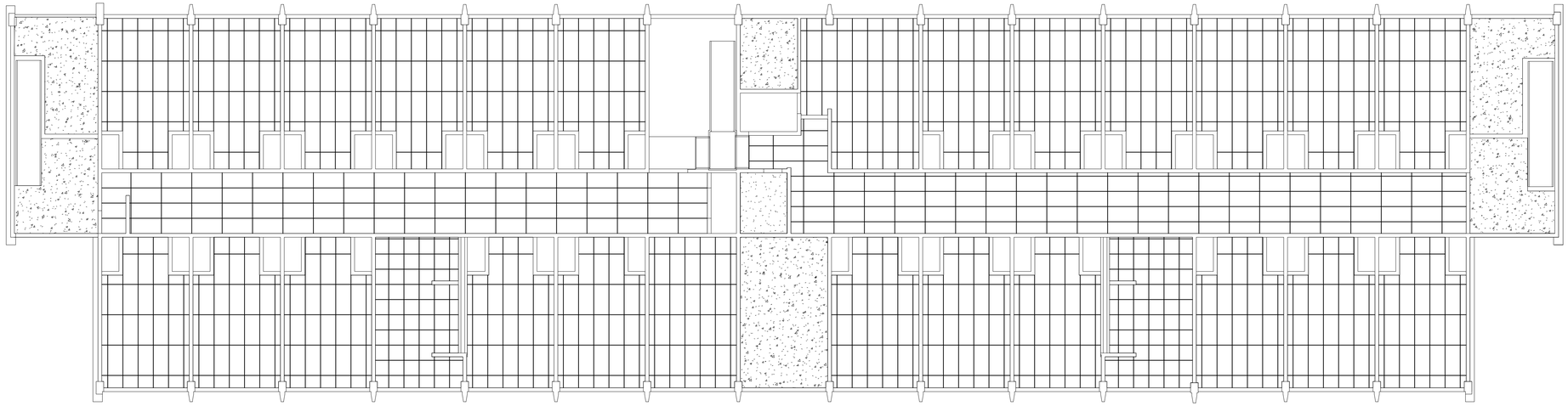
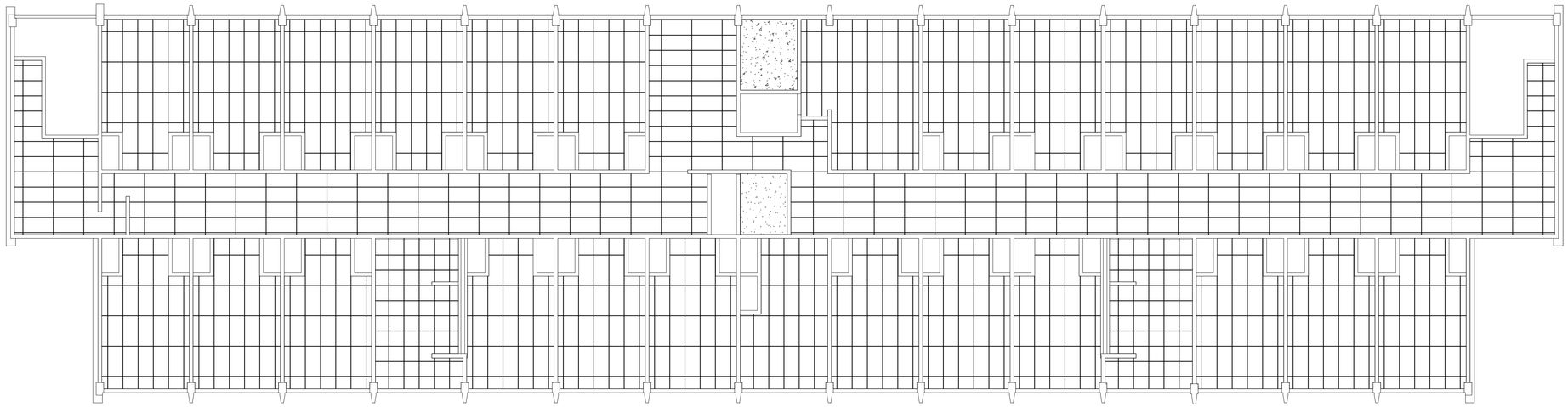


1 First Floor Ceiling Plan - New Work
1/8" = 1'-0"



2 Second Floor Ceiling Plan - New Work
1/8" = 1'-0"

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No.	Description	Date

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West Hall

CEILING PLANS NEW WORK

Date	Issue Date
Drawn by	MDE
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A104

Scale	1/8" = 1'-0"

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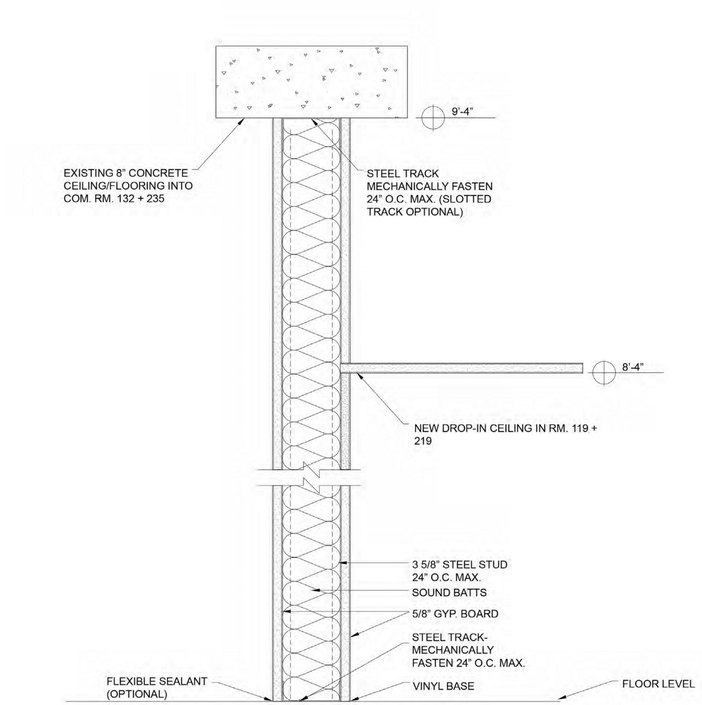

2 SECTION OF NEW WALL IN ROOMS 119 + 219
1/8" = 1'-0"

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5/21/21

No.	Description	Date

NMT

West Hall

WALL SECTIONS

Date	Issue Date
Drawn by	MDE
Checked by	JH

A105

Scale 1/8" = 1'-0"

5/27/2021 9:51:57 AM

ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AL	ACOUSTIC LINING
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CFM	CUBIC FEET PER MINUTE
CO	CLEANOUT
CONT.	CONTINUATION
D	DRAIN
DX	DIRECT EXPANSION
ENT	ENTERING
EXH	EXHAUST
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
°F	DEGREES FAHRENHEIT
FB	FLAT BOTTOM
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
F.DPR	FIRE DAMPER
F.G.	FILTER GAUGE
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FS	FLOOR SINK
F/S DPR	COMBINATION FIRE/SMOKE DAMPER
FT	FLAT TOP
FT.	FEET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HAND DAMPER (VOLUME DAMPER)
HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)
IN	INCHES
KW	KILOWATT
KWH	KILOWATT HOUR
MA	MAIN AIR (CONTROLS)
MCC	MOTOR CONTROL CENTER
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER (QUANTITY)
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAGE
QTY	QUANTITY
QUAD	QUADRANT
R.A.	RETURN AIR
Rh	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SCD	SMOKE CONTROL DAMPER
SP	STATIC PRESSURE (INCHES OF WATER)
SDVV	SINGLE DUCT VARIABLE VOLUME
ST	SOUND TRAP
TOPT	TOP OF PIPE TRAPEZE
TP	TOTAL PRESSURE (INCHES OF WATER)
TYP.	TYPICAL
V	VOLTS
VAC	VOLTS, ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
WH	WALL HYDRANT

MECHANICAL SYMBOL LEGEND

DUCTWORK SYMBOLS

- FLEXIBLE DUCT
- ACOUSTICAL DUCT LINING
- MANUAL BALANCING DAMPER
- F.DPR — FIRE DAMPER
- S.DPR — SMOKE DAMPER
- F/S DPR — COMBINATION FIRE/SMOKE DAMPER
- RATED WALL (VERIFY WITH ARCHITECTURAL DRAWINGS)
- CONNECT NEW DUCT TO EXISTING DUCT
- EXISTING DUCT TO BE REMOVED
- FLEXIBLE CONNECTION
- MITERED ELBOW (ALL MITERED ELBOWS ARE TO HAVE VANES EXCEPT TRANSFER AIR SOUND ELBOW)
- SHORT RADIUS VANED ELBOW (ALL SHORT RADIUS ELBOWS ARE TO HAVE VANES PER SMACNA)
- STANDARD RADIUS ELBOW
- SUPPLY DUCT, SECTION AND TURNED DOWN
- EXHAUST DUCT, SECTION AND TURNED DOWN
- RETURN DUCT, SECTION AND TURNED DOWN
- CEILING DIFFUSERS (ARROWS DENOTE THROW PATTERN IF THROW IS SOMETHING OTHER THAN 4-WAY)
- DUCTED EXHAUST REGISTER
- DUCTED RETURN REGISTER
- CEILING RETURN AIR REGISTER OR TRANSFER AIR GRILLE
- SIDEWALL EXHAUST OR RETURN AIR GRILLE OR REGISTER
- SIDEWALL SUPPLY REGISTER
- DUCT TRANSITION
- 24"x12" — INDICATES A RECTANGULAR DUCT SIZE
- 12" ø — INDICATES A 'ROUND DUCT SIZE
- 24"/12" — INDICATES A FLAT OVAL DUCT SIZE
- ACCESS DOOR
- T — ROOM THERMOSTAT/TEMP. TRANSMITTER LOCATION ONLY SEE CONTROL DRAWINGS FOR TYPE
- H — ROOM HUMIDISTAT/HUMIDITY TRANSMITTER LOCATION ONLY SEE CONTROL DRAWINGS FOR TYPE
- CD — ROOM CARBON DIOXIDE SENSOR LOCATION ONLY
- SD — DUCT MOUNTED SMOKE DETECTOR
- DUCT MOUNTED STATIC PRESSURE PROBE

EQUIPMENT SYMBOLS

- XX - ## — SYMBOL INDICATES NEW EQUIPMENT IDENTIFIED IN EQUIPMENT SCHEDULE
  - NUMBERS REFER TO SPECIFIC EQUIPMENT
  - LETTERS REFER TO THE EQUIPMENT TYPE.
- SIDEWALL GRILLE DIMENSION WHERE SHOWN ON PLANS
- 12x6 / XX - # / 200 — SYMBOL INDICATES GRILLE OR DIFFUSER IDENTIFIED IN EQUIPMENT SCHEDULE
  - CFM

GENERAL DRAWING SYMBOLS

SECTION CUT

SECTION NUMBER
DRAWING NUMBER WHERE DETAILED — 1 / 1M101

DETAIL REFERENCE

DETAIL LOCATION — A1/1M101
DRAWING NUMBER WHERE DETAILED

SECTION AND DETAIL TITLES

SECTION LOCATION — 1 SECTION / SCALE

DETAIL LOCATION — A1 DETAIL / SCALE

PIPING SYMBOLS

HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
PCWS	PROCESS CHILLED WATER SUPPLY
PCWR	PROCESS CHILLED WATER RETURN
CD	CONDENSATE DRAIN
D	DRAIN
V	VENT
MU	MAKE-UP WATER
RS	REFRIGERATION SUCTION
RL	REFRIGERATION LIQUID
R	REFRIGERATION
TWS	TOWER WATER SUPPLY
TWR	TOWER WATER RETURN
TWB	TOWER WATER BYPASS
HPS	STEAM - HIGH PRESSURE
MPS	STEAM - MEDIUM PRESSURE
LPS	STEAM - LOW PRESSURE
CND	STEAM - CONDENSATE RETURN
PC	STEAM - PUMPED CONDENSATE
DOWN	DIRECTION OF PIPE PITCH (DOWN)

- DIRECTION OF FLOW
- EXISTING PIPE TO REMAIN
- EXISTING PIPE TO BE REMOVED

VALVE SYMBOLS

SINGLE LINE PIPE SYMBOLS

- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- THREE-WAY MODULATING CONTROL VALVE
- TWO-WAY CONTROL VALVE
- SAFETY VALVE OR PRESSURE RELIEF
- MANUAL AIR VENT
- SOLENOID VALVE
- 3/4" GATE VALVE WITH ADAPTER TO 3/4" HOSE THREAD
- BUTTERFLY VALVE
- BALL VALVE
- VALVE IN RISE
- WATER FLOW MEASURING DEVICE
- VALVE ASSEMBLY
- VALVE - BALL LEVER
- VALVE - GATE MANUAL
- VALVE - BUTTERFLY LEVER
- VALVE - BUTTERFLY MOTORIZED
- VALVE - GLOBE MANUAL
- VALVE - GLOBE LEVER
- VALVE - PLUG LEVER
- VALVE - PLUG MANUAL
- VALVE - PRESSURE REGULATING
- VALVE - CHECK
- VALVE - PRESSURE RELIEF

DOUBLE LINE PIPE SYMBOLS

- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- 3-WAY CONTROL VALVE
- 2-WAY CONTROL VALVE
- RELIEF VALVE
- SOLENOID VALVE
- BUTTERFLY VALVE
- BALL VALVE
- DIAPHRAGM VALVE
- CIRCUIT SETTER
- STEAM TRAP INVERTED BUCKET

FITTING SYMBOLS

SINGLE LINE PIPE SYMBOLS

- ELBOW - DOWN
- ELBOW - UP
- PIPE RISE - DROP
- ELBOW - DOWN TO TEE
- TEE - DOWN
- TEE - UP
- ELBOW - UP TO TEE
- END CAP
- FLEX CONNECTION
- PIPE REDUCER - CONCENTRIC
- PIPE REDUCER - ECCENTRIC
- PIPE STRAINER
- UNION - SCREWED
- AIR VENT - AUTOMATIC
- AIR VENT - MANUAL
- GAUGE - DIFFERENTIAL
- GAUGE - PRESSURE
- GAUGE - PRESSURE
- GAUGE - PRESSURE WITH COCK
- GAUGE - TEMPERATURE
- PIPE - CAPPED WITH SHUT-OFF VALVE
- PIPE ANCHOR
- PIPE EXPANSION JOINT
- PIPE GUIDE
- SENSOR - FLOW
- SWITCH - FLOW
- SWITCH - PRESSURE
- SWITCH - TEMPERATURE
- TEMPERATURE - PRESSURE TEST FITTING
- THERMOMETER
- THERMOMETER WELL

DOUBLE LINE PIPE SYMBOLS

- ELBOW - DOWN
- ELBOW - UP
- PIPE RISE - DROP
- ELBOW - DOWN TO TEE
- TEE - DOWN
- END CAP
- PIPE REDUCER - CONCENTRIC
- PIPE REDUCER - ECCENTRIC
- UNION - SCREWED
- PIPE STRAINER

NOTE:

NOT ALL ABBREVIATIONS AND SYMBOLS APPLY TO THIS PROJECT.

GENERAL NOTES:

1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR SUSPENDED CEILINGS, UNLESS OTHERWISE NOTED.
2. PROVIDE ACCESS PANELS OR DOORS IN INACCESSIBLE CEILINGS AND/OR CHASES FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, COILS, FANS, CONTROLS, ETC. THEY SHALL BE FURNISHED UNDER DIVISION 23 AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATION. ACCESS DOOR RATING SHALL MATCH CLASSIFICATION OF WALL AND CEILING FIRE RATING.
   WATER PIPE CONNECTIONS TO WATER COILS SHALL BE MADE SO THERE WILL BE COUNTER FLOW BETWEEN WATER AND AIR.
3. COORDINATE THE LOCATION OF ALL DIFFUSERS, GRILLES, REGISTERS, ACCESS DOORS, ETC., WITH THE ARCHITECTURAL REFLECTED CEILING PLAN(S).
4. ALL ROUND RUNOUTS AND DROPS TO DIFFUSERS SHALL BE THE SAME NOMINAL SIZE AS THE SCHEDULED DIFFUSER NECK SIZE.
5. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. ALL DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS. PROVIDE ONE INCH ACOUSTICAL LINING IN LOW VELOCITY RECTANGULAR DUCTWORK UNLESS NOTED OTHERWISE ON THE DRAWINGS. SEE SPECIFICATIONS.
6. PROVIDE 1/2" MANUAL AIR VENTS AT ALL HIGH POINTS OF CLOSED SYSTEM PIPING AND 1/2" MANUAL DRAIN VALVES WITH HOSE CONNECTION AT LOW POINTS AS REQUIRED TO PROVIDE COMPLETE SYSTEM DRAINAGE. WHERE DRAIN VALVES OCCUR ABOVE CEILING AREAS AND IN AREAS OUTSIDE MECHANICAL RANGE PROVIDE HOSE CONNECTION ON VALVE.
7. PROVIDE TURNING VANES IN ALL SQUARE ELBOWS, EXCEPT TRANSFER AIR SOUND ELBOWS.
8. THE CFM OF EACH DIFFUSER, REGISTER, ETC., IS INDICATED AS A NUMBER NEXT TO THE SYMBOL DESIGNATION ON THE DRAWINGS.
9. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIRE RATED AND/OR SMOKE RATED WALLS AND ASSEMBLIES. PROVIDE APPROVED FIRE DAMPERS IN ALL REQUIRED PENETRATIONS FOR DUCTWORK, GRILLES, REGISTERS AND DIFFUSERS. ALL PIPE AND DUCTWORK PENETRATIONS OF FIRE, SMOKE AND FULL HEIGHT WALLS SHALL BE CAULKED AIRTIGHT TO THE ADJACENT STRUCTURE BY MEANS OF U.L. APPROVED FIRE PROOF CAULKING MATERIAL.
10. CONTRACTOR SHALL COORDINATE ALL DUCTWORK, PIPING, PLUMBING AND FIRE PROTECTION PIPING WITH STRUCTURAL AND ELECTRICAL SYSTEMS AND SHALL PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.
11. CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES, INSERTS, SLEEVES, AND HANGING DEVICES FOR INSTALLATION OF MECHANICAL AND PLUMBING EQUIPMENT, DUCTWORK AND PIPING, ETC. CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND ALL BUILDING TRADES TO AVOID CONFLICTS AND TO MAINTAIN EQUIPMENT ACCESS AND SERVICEABILITY.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY MISCELLANEOUS ANGLES, CHANNELS, UNISTRUT, ETC., AS MAY BE REQUIRED TO ADEQUATELY SUPPORT THE MECHANICAL PIPING, DUCTWORK, AND EQUIPMENT IN A MANNER APPROVED BY THE ARCHITECT, WHICH WILL NOT OVERLOAD THE BUILDING STRUCTURAL SYSTEM.
13. CONTRACTOR SHALL PROVIDE RETURN AIR OR TRANSFER AIR OPENINGS IN FULL HEIGHT WALLS SIZED AT 350 FPM (UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE DRAWINGS) TO CREATE AND/OR MAINTAIN A RETURN AIR PATH AS REQUIRED. FIRE DAMPERS AND/OR SMOKE DAMPERS SHALL BE PROVIDED IN SUCH OPENINGS WHERE REQUIRED BY NOTE #10.
14. SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, DUCT WALL PENETRATIONS AND FITTING CONNECTIONS ON ALL DUCT SYSTEMS.
15. MECHANICAL ITEMS SUCH AS ROOF DRAINS, FLOOR DRAINS, PLUMBING FIXTURES, ETC. SHOWN ON THE ARCHITECTURAL DRAWINGS BUT NOT SHOWN ON THE MECHANICAL DRAWINGS SHALL BE INCLUDED IN THE PROJECT. THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR INCLUSION IN ADDENDUM.

THESE AS-BUILT OR RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

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25214
PROFESSIONAL ENGINEER
5/21/21

No.	Description	Date

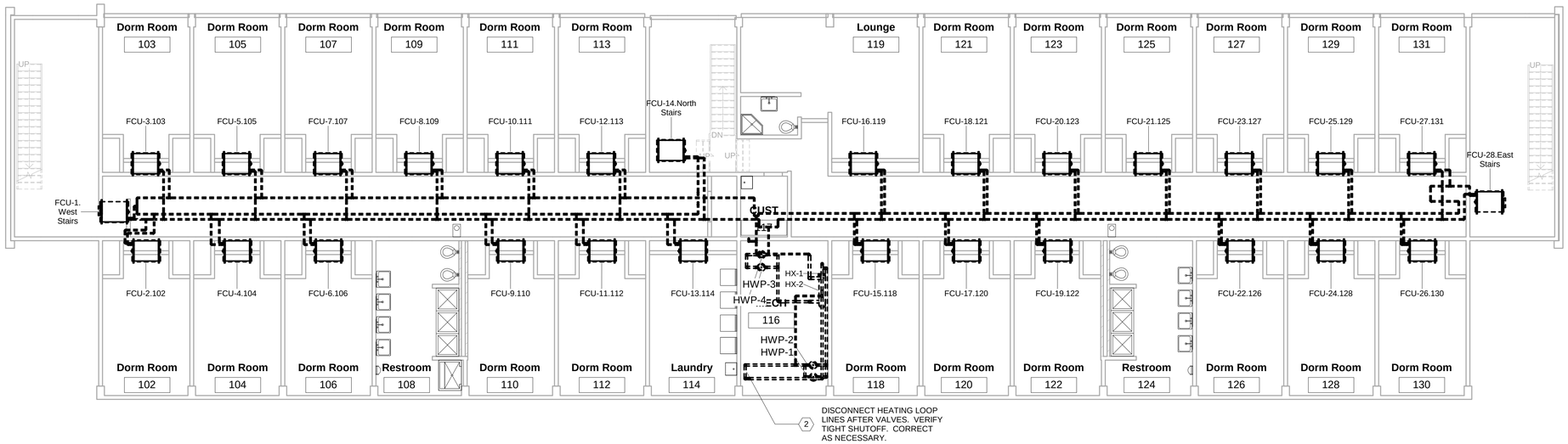
NMT
West Hall
MECHANICAL LEGEND

Date	Issue Date
Drawn by	Author
Checked by	Checker

M001

Scale

6/17/2020 12:16:03 PM



1 1st Floor - Existing Mech. to be Removed
1/8" = 1'-0"

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5/21/21

No.	Description	Date

NMT

West Hall

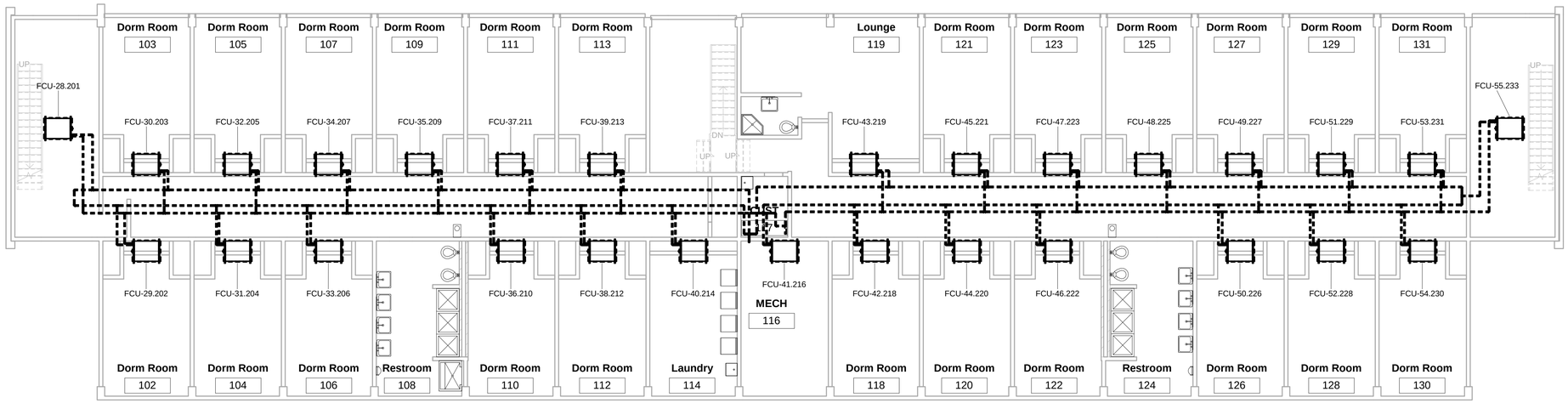
FIRST FLOOR MECHANICAL REMOVAL PLAN

Date	APRIL 16, 2021
Drawn by	ALC
Checked by	Checker

M101

Scale	1/8" = 1'-0"

5/5/2021 10:37:55 AM



1 2nd Floor - Existing Mech. to be Removed
1/8" = 1'-0"

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NM 87801

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https://www.nmt.edu/facilities/

JASON HEBERT
NEW MEXICO
25214
PROFESSIONAL ENGINEER
5/21/21

No.	Description	Date

NMT

West Hall

SECOND FLOOR
MECHANICAL REMOVAL
PLAN

Date	APRIL 16, 2021
Drawn by	Author
Checked by	Checker

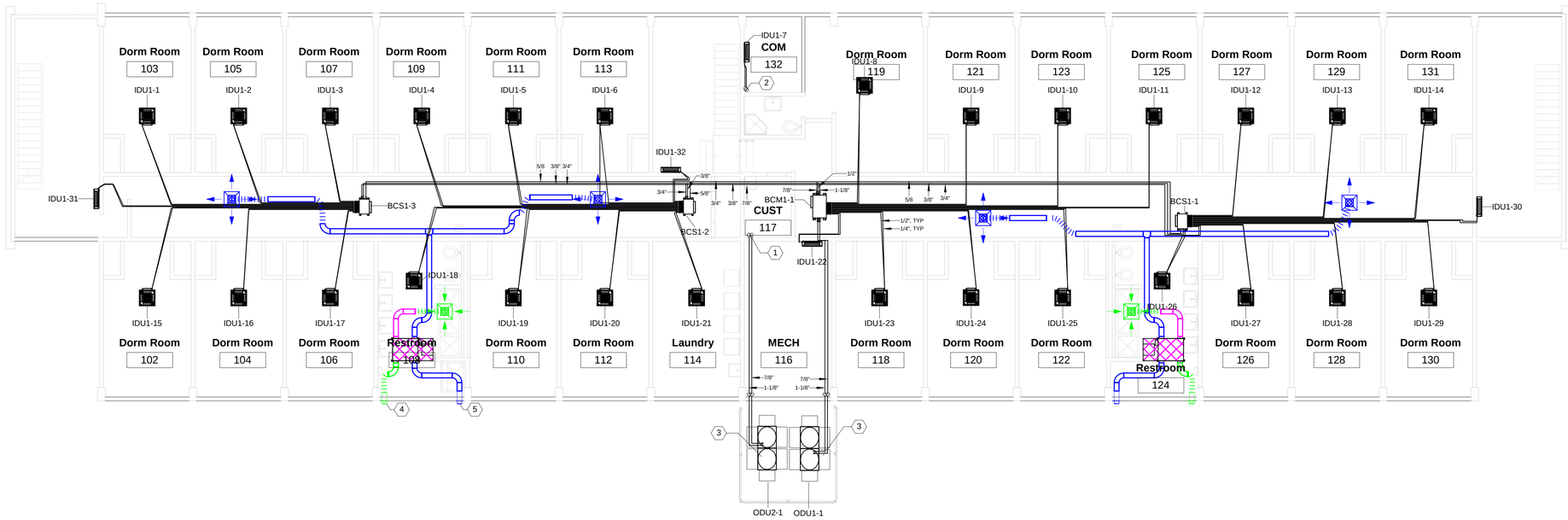
M102

Scale	1/8" = 1'-0"

5/5/2021 10:38:04 AM

KEYED NOTES

1 REF LINES UP TO FLOOR ABOVE. SEE M104 FOR CONTINUATION.
2 REF LINES UP TO FLOOR ABOVE. SEE M104 FOR CONTINUATION.
3 ODU ON NEW 5" SLAB
4 EXHAUST AIR OUTLET
5 OUTSIDE AIR INTAKE



1 1st Floor - Mechanical New Work
1/8" = 1'-0"

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JASON HEBERT
NEW MEXICO
25214
PROFESSIONAL ENGINEER
5/21/21

No.	Description	Date

NMT

West Hall

FIRST FLOOR MECHANICAL NEW WORK PLAN

Date	APRIL 16, 2021
Drawn by	ALC
Checked by	Checker

M103

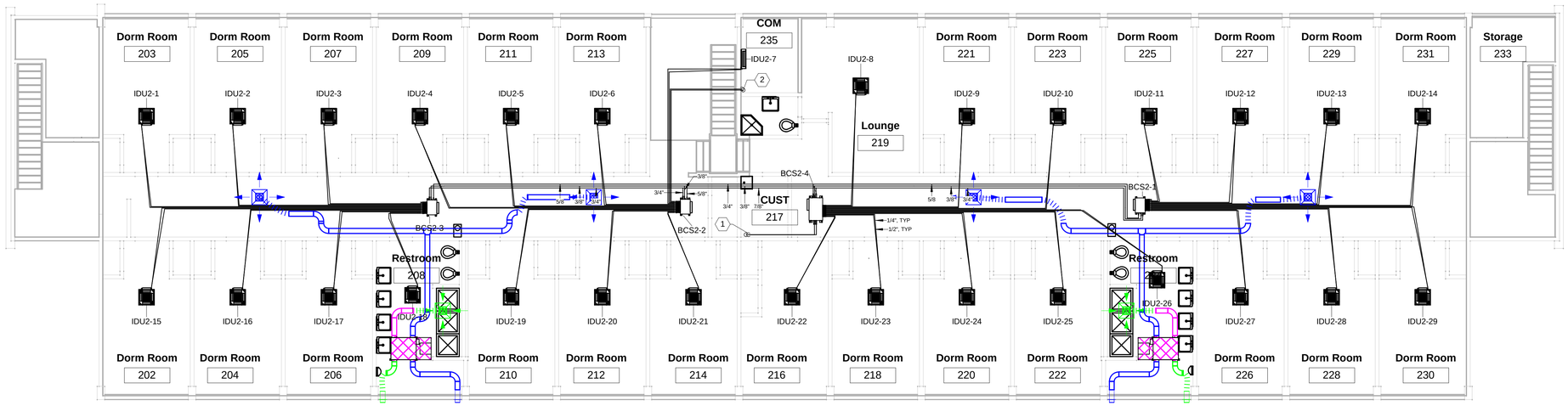
Scale 1/8" = 1'-0"

5/5/2021 10:38:25 AM

KEYED NOTES

1 REF LINES UP FROM FLOOR BELOW. SEE M103 FOR CONTINUATION.

2 REF LINES DOWN TO FLOOR BELOW. SEE M103 FOR CONTINUATION.



1 2nd Floor - Mechanical New Work
1/8" = 1'-0"

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PROFESSIONAL ENGINEER
5/21/21

No.	Description	Date

NMT

West Hall

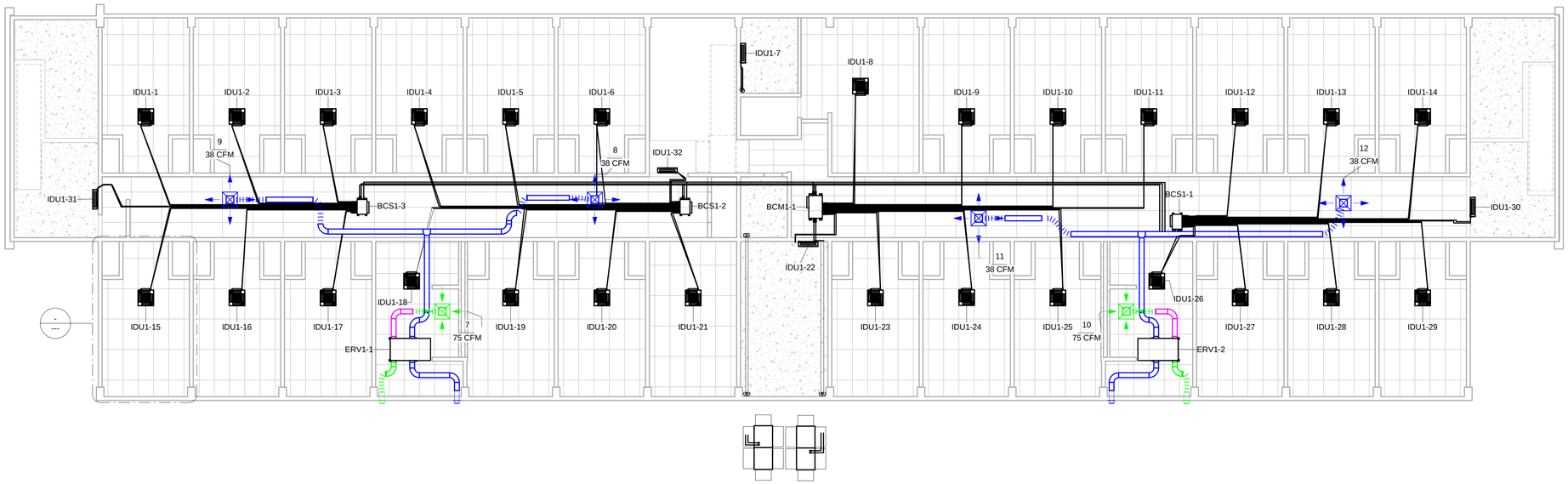
SECOND FLOOR MECHANICAL NEW WORK PLAN

Date	APRIL 16, 2021
Drawn by	Author
Checked by	Checker

M104

Scale 1/8" = 1'-0"

5/5/2021 10:38:43 AM



1 FIRST FLOOR MECHANICAL NEW WORK
1/8" = 1'-0"

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JASON HEBERT
NEW MEXICO
25214
PROFESSIONAL ENGINEER
5/21/21

No.	Description	Date

NMT

West Hall

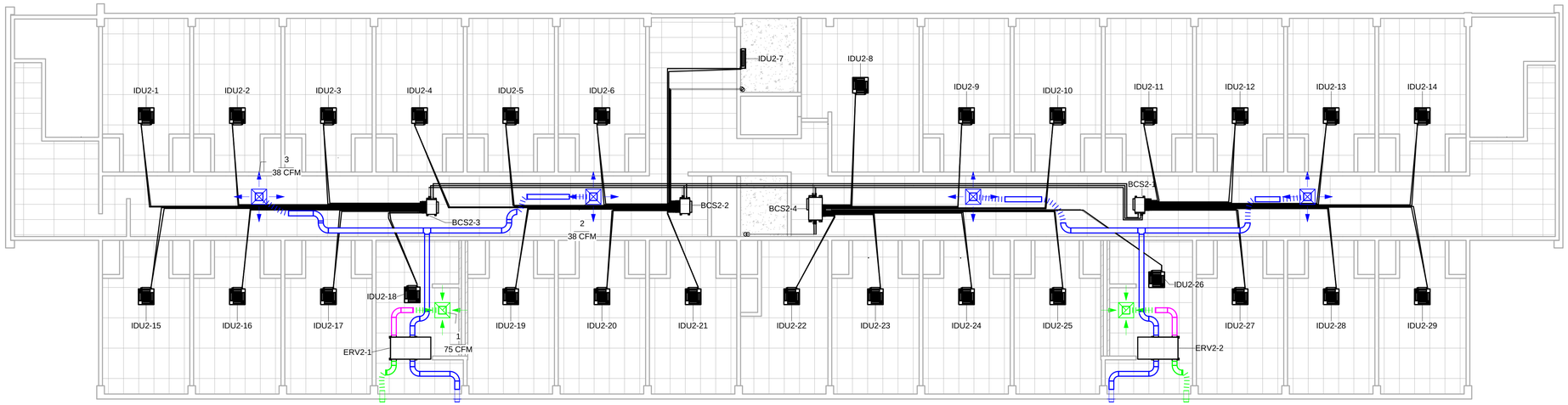
FIRST FLOOR MECHANICAL RCP

Date	APRIL 16, 2021
Drawn by	ME
Checked by	JH

M105

Scale 1/8" = 1'-0"

5/5/2021 10:38:53 AM



1 SECOND FLOOR MECHANICAL CEILING PLAN
1/8" = 1'-0"

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JASON HEBERT
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PROFESSIONAL ENGINEER
5/21/21

No.	Description	Date

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SECOND FLOOR
MECHANICAL RCP

Date	APRIL 16, 2021
Drawn by	ME
Checked by	JH

M106

Scale 1/8" = 1'-0"

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OUTDOOR UNITS

TAG	MANUFACTURER	MITSUBISHI MODEL NO.	TRANE MODEL NO.	TYPE	COOLING CAP.	HEATING CAP.	VOLTAGE	PH	MCA	MOCP
ODU1-1	Mitsubishi Electric	PURY-P168TNU-A	TURYP1683AN40AN	Outdoor Unit	168000.0 Btu/h	188000.0 Btu/h	208 V	3	61 A	100 A
ODU2-1	Mitsubishi Electric	PURY-P168TNU-A	TURYP1683AN40AN	Outdoor Unit	168000.0 Btu/h	188000.0 Btu/h	208 V	3	61 A	100 A

BRANCH CONTROLLERS

TAG	MANUFACTURER	MITSUBISHI MODEL NO.	TRANE MODEL NO.	TYPE	VOLTAGE	PH	MCA	MOCP
BCM1-1	Mitsubishi Electric	CMB-P108NU-JA1	TCMBM0108JA11N4	Main Branch Controller, 8 Circuit	208 V	1	1 A	15 A
BCS1-1	Mitsubishi Electric	CMB-P108NU-KB1	TCMBS0108KB11N4	Sub Branch Controller, 8 Circuit	208 V	1	1 A	15 A
BCS1-2	Mitsubishi Electric	CMB-P108NU-KB1	TCMBS0108KB11N4	Sub Branch Controller, 8 Circuit	208 V	1	1 A	15 A
BCS1-3	Mitsubishi Electric	CMB-P108NU-KB1	TCMBS0108KB11N4	Sub Branch Controller, 8 Circuit	208 V	1	1 A	15 A
BCS2-1	Mitsubishi Electric	CMB-P108NU-KB1	TCMBS0108KB11N4	Sub Branch Controller, 8 Circuit	208 V	1	1 A	15 A
BCS2-2	Mitsubishi Electric	CMB-P108NU-KB1	TCMBS0108KB11N4	Sub Branch Controller, 8 Circuit	208 V	1	1 A	15 A
BCS2-3	Mitsubishi Electric	CMB-P108NU-KB1	TCMBS0108KB11N4	Sub Branch Controller, 8 Circuit	208 V	1	1 A	15 A
BCS2-4	Mitsubishi Electric	CMB-P108NU-JA1	TCMBM0108JA11N4	Main Branch Controller, 8 Circuit	208 V	1	1 A	15 A

INDOOR UNITS

WT	Manufacturer	MODEL	Type Mark	COOLING CAP.	HEATING CAP.	voltage	Keynote	MCA	MOP
ERV1-1	Mitsubishi Electric Corporation	LGH-F300RVX-E	Energy Recovery Ventilator			208-230V	1	2.05 A	15 A
ERV1-2	Mitsubishi Electric Corporation	LGH-F300RVX-E	Energy Recovery Ventilator			208-230V	1	2.05 A	15 A
ERV2-1	Mitsubishi Electric Corporation	LGH-F300RVX-E	Energy Recovery Ventilator			208-230V	1	2.05 A	15 A
ERV2-2	Mitsubishi Electric Corporation	LGH-F300RVX-E	Energy Recovery Ventilator			208-230V	1	2.05 A	15 A
IDU1-1	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU1-2	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU1-3	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU1-4	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU1-5	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU1-6	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU1-7	Mitsubishi Electric	PKFY-P06NBMU-E	Wall Mounted	6000.0 Btu/h	6700.00 Btu/h	208-230V	1	.19 A	15 A
IDU1-8	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU1-9	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU1-10	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU1-11	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU1-12	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU1-13	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU1-14	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU1-15	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU1-16	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU1-17	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU1-18	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU1-19	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU1-20	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU1-21	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU1-22	Mitsubishi Electric	PKFY-P06NBMU-E	Wall Mounted	6000.0 Btu/h	6700.00 Btu/h	208-230V	1	.19 A	15 A
IDU1-23	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU1-24	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU1-25	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU1-26	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU1-27	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU1-28	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A

INDOOR UNITS

WT	Manufacturer	MODEL	Type Mark	COOLING CAP.	HEATING CAP.	voltage	Keynote	MCA	MOP
IDU1-29	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU1-30	Mitsubishi Electric	PKFY-P06NBMU-E	Wall Mounted	6000.0 Btu/h	6700.00 Btu/h	208-230V	1	.19 A	15 A
IDU1-31	Mitsubishi Electric	PKFY-P06NBMU-E	Wall Mounted	6000.0 Btu/h	6700.00 Btu/h	208-230V	1	.19 A	15 A
IDU1-32	Mitsubishi Electric	PKFY-P06NBMU-E	Wall Mounted	6000.0 Btu/h	6700.00 Btu/h	208-230V	1	.19 A	15 A
IDU2-1	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU2-2	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU2-3	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU2-4	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU2-5	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU2-6	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU2-7	Mitsubishi Electric	PKFY-P06NBMU-E	Wall Mounted	6000.0 Btu/h	6700.00 Btu/h	208-230V	1	.19 A	15 A
IDU2-8	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU2-9	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU2-10	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU2-11	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU2-12	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU2-13	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU2-14	Mitsubishi Electric	PLFY-P05NFMU-E	Ceiling Recessed	5000.0 Btu/h	5600.0 Btu/h	208-230V	1	.24 A	15 A
IDU2-15	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-16	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-17	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-18	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-19	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-20	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-21	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-22	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-23	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-24	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-25	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-26	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-27	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-28	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A
IDU2-29	Mitsubishi Electric	PLFY-08NFMU-E	Ceiling Recessed	8000.0	9000.0	208-230V	1	0.28 A	15 A

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5/21/21

No.	Description	Date

NMT

West Hall

MECHANICAL EQUIPMENT SCHEDULES

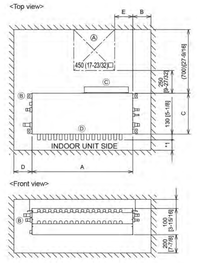
Date	APRIL 16, 2021
Drawn by	ME
Checked by	JH

M201

Scale

5/5/2021 10:39:16 AM

(Unit: mm [in])

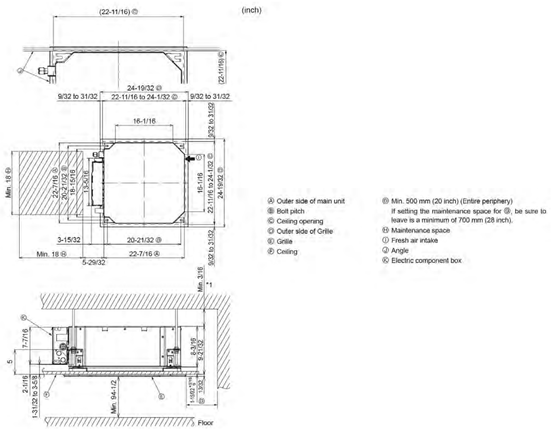


Ⓐ Inspection hole
Ⓑ On the side of outdoor unit piping
Ⓒ Control box
Ⓓ On the side of indoor unit piping

*1 Dimensions with which pipe connection can be handled at site

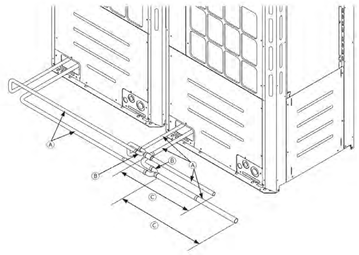
Model name	A	B	C	D	E
CMB-P104NU-J1	596 [23-15/32]	-	398 [9-11/16]	250 [9-27/32]	73 [2-7/8]
CMB-P106NU-J1					
CMB-P108NU-J1					
CMB-P1012NU-J1	911 [35-7/8]		545 [21-15/32]		231 [9-1/8]
CMB-P1016NU-J1	1135 [44-11/16]				343 [13-9/16]
CMB-P108NU-JA1	911 [35-7/8]	250 [9-27/32]		300 [11-13/16]	231 [9-1/8]
CMB-P1012NU-JA1					
CMB-P1016NU-JA1	1135 [44-11/16]				343 [13-9/16]
CMB-P1016NU-KA1					
CMB-P104NU-KB1	596 [23-15/32]	-	398 [9-11/16]	250 [9-27/32]	73 [2-7/8]
CMB-P108NU-KB1					

1 CONTROLLER DETAIL
3/4" = 1'-0"



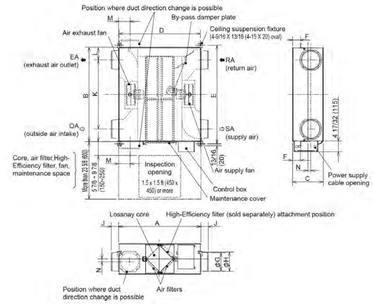
Ⓐ Outer side of main unit
Ⓑ Bolt pitch
Ⓒ Ceiling opening
Ⓓ Outer side of Grille
Ⓔ Grille
Ⓕ Ceiling
Ⓖ Min. 500 mm (20 inch) (Entire periphery)
If setting the maintenance space for Ⓗ, be sure to leave is a minimum of 700 mm (28 inch).
Ⓗ Maintenance space
Ⓘ Fresh air intake
Ⓙ Angle
Ⓚ Electric component box

2 INDOOR UNIT CASETTE DETAIL
3/4" = 1'-0"

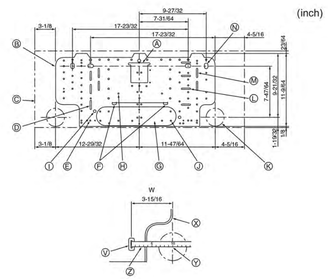


Ⓐ On-site piping
Ⓑ Twinning Kit
Ⓒ The pipe section before the twinning pipe must have at least 500 mm (19-11/16 in) of straight section.

3 OUTDOOR UNIT DETAIL
3/4" = 1'-0"



4 RECOVERY VENTILATOR DETAIL
3/4" = 1'-0"



Ⓐ Supporting piece
Ⓑ Mount board
Ⓒ Main body
Ⓓ Slot (4-4.5 × 35 mm, 11/64 × 1-3/8 inch)
Ⓔ Knockout hole (8-ø4.3 mm, 11/64 inch)
Ⓕ Level setting standard
Ⓖ Knockout hole
Ⓗ Knockout hole (12-ø2.6 mm, 7/64 inch)
Ⓘ Knockout hole (4-ø9 mm, 23/64 inch)
Ⓙ Knockout hole (87-ø5.4 mm, 7/32 inch)
Ⓚ Piping hole (ø65 mm, 2-9/16 inch)
Ⓛ Slot (4-4.5 × 40 mm, 11/64 × 1-37/64 inch)
Ⓜ Slot (4-4.5 × 37 mm, 11/64 × 1-29/64 inch)
Ⓝ Slot (4-11 × 20 mm, 7/16 × 25/32 inch)
W: Location for wall holes
Ⓧ Wall mounting fixture
Ⓨ Hole centre
Ⓩ Align the scale with the line.
Ⓥ Insert scale.

5 WALL MOUNTED INDOOR UNIT DETAIL
3/4" = 1'-0"

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5/21/21

No.	Description	Date

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West Hall

MECHANICAL DETAILS

Date	APRIL 16, 2021
Drawn by	Author
Checked by	Checker

M202

Scale 3/4" = 1'-0"

5/6/2021 12:46:19 PM

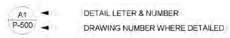
PLUMBING SYMBOL LEGEND

ABBREVIATIONS

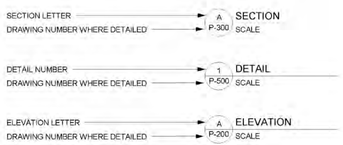
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANT	ACID NEUTRALIZING TANK
AVTR	ACID RESISTANT VENT THROUGH ROOF
B.C	BALANCING COCK
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CWB	CLOTHES WASHER BOX
CFH	CUBIC FEET PER HOUR
CO	CLEANOUT
COTG	CLEANOUT TO GRADE
CP	CIRCULATION PUMP
CWV	COMBINATION WASTE AND VENT
DCO	DOUBLE CLEANOUT
DCOTG	DOUBLE CLEANOUT TO GRADE
DF	DRINKING FOUNTAIN
DN	DOWN
DS	DOWNSPOUT
EL	ELEVATION
EWH	ELECTRIC WATER HEATER
EWC	ELECTRIC WATER COOLER
EEW	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESEW	EMERGENCY SHOWER EYE WASH
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FFE	FINISHED FLOOR ELEVATION
FT	FEET
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
FV	FLUSH VALVE
GD	GUTTER DRAIN
GI	GREASE INTERCEPTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWH	GAS FIRED WATER HEATER
HB	HOSE BIBB
HD	HEAD
HP	HORSEPOWER
IN	INCHES
INV	INVERT
KW	KILOWATT
MBh	1,000 BTUH
MV	MIXING VALVE
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
No. #	NUMBER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OS&Y	OUTSIDE SCREW AND YOKE
P-1	PLUMBING FIXTURE SYMBOL
Ph	PHASE
PH	POWER OF HARDNESS
PSIG	POUNDS PER SQUARE INCH GAGE
SP	STATIC PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
YB	YARD BOX
YH	YARD HYDRANT
WCO	WALL CLEANOUT
WC	WATER CLOSET

SECTION SYMBOL

DETAIL SYMBOL



SECTION, ELEVATION, AND DETAIL TITLES



PIPING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
CA	CA	COMPRESSED AIR
CND	CND	CONDENSATE DRAIN
DCW	DCW	DOMESTIC COLD WATER
DHW	DHW	DOMESTIC HOT WATER
DHWR	DHWR	DOMESTIC HOT WATER RETURN
DHW 140°F	DHW	140°DOMESTIC HOT WATER
DHWR 140°F	DHWR	140°DOMESTIC HOT WATER RETURN
ROS	ROS	REVERSE OSMOSIS SUPPLY
ROR	ROR	REVERSE OSMOSIS RETURN
MU	MU	MAKE-UP WATER
NPW	NPW	NON-POTABLE WATER
V	V	VENT
DIS	DIS	DEIONIZED WATER SUPPLY
DIR	DIR	DEIONIZED WATER RETURN
SAN	SAN	SANITARY SEWER
RD	RD	STORMROOF DRAIN
ORD	ORD	OVERFLOW ROOF DRAIN
LPG	LPG	LIQUIFIED PETROLEUM GAS
LG	LG	LAB GAS
NGM	NGM	NATURAL GAS-MEDIUM PRESSURE
NGH	NGH	NATURAL GAS-HIGH PRESSURE
GV	GV	GAS VENT
IRR	IRR	IRRIGATION
SCW	SCW	SOFT COLD WATER
SHW	SHW	SOFT HOT WATER
TWR (_ _ _)	TWR	TEMPERED WATER RETURN (TEMP °F)
TW (_ _ _)	TW	TEMPERED WATER (TEMP °F)
PD	PD	PUMPED DISCHARGE LINE
IA	IA	INSTRUMENT COMPRESSED AIR
IW	IW	INDIRECT WASTE
LA	LA	LAB COMPRESSED AIR
LV	LV	LAB VACUUM
		DIRECTION OF FLOW
		PIPE ANCHOR
		PIPE GUIDE
		REDUCER OR INCREASER
		ECCENTRIC REDUCER
		TOP CONNECTION 45°OR 90°
		BOTTOM CONNECTION 45°OR 90°
		SIDE CONNECTION
		CAPPED OUTLET
		DROP IN PIPE
		RISE IN PIPE
		UNION
		FLANGED UNION
		ORIFICE UNION
		UNIVERSAL TEMPERATURE-PRESSURE FITTING (PETE'S PLUG)
		FLEXIBLE CONNECTION
		NEW PIPING
		EXISTING PIPING TO REMAIN
X X X X X		EXISTING PIPE TO BE REMOVED
		NEW PIPE CONNECTION TO EXISTING PIPING
		STRAINER WITH BLOWDOWN VALVE & HOSE BIBB
		THERMOMETER
		PRESSURE GAUGE AND GAUGE COCK
		AQUASTAT
		POINT OF CONNECTION TO EXISTING
	WHA	WATER HAMMER ARRESTOR
	MAV	MANUAL AIR VENT (MAV)
	AAV	AUTOMATIC AIR VENT (AAV)
	FS/FD/AD CO	FLOOR SINK, FLOOR DRAIN, AREA DRAIN, CLEANOUT
	DCO	TWO WAY CLEANOUT OR DOUBLE CLEANOUT
	RD/OD/DD	ROOF DRAIN/OVERFLOW DRAIN/DECK DRAIN
		TEST PLUG (PRESS/TEMP) PENETRATION

SCHEMATIC SYMBOLS

	TP	TRAP PRIMER WITH ACCESS PANEL
		SLOPE OF PIPE
	VTR	VENT THROUGH ROOF
	AG	AIR GAP FITTING
	(WH) (HB)	WALL HYDRANT, HOSE BIBB

VALVE SYMBOLS

SYMBOL	DESCRIPTION
	GATE VALVE
S	SOLENOID VALVE
	OS&Y VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	CHECK VALVE
	PLUG VALVE
	BALANCING VALVE/CIRCUIT SETTER MEASURING DEVICE
	WATER PRESSURE REDUCING VALVE
	FUEL GAS PRESSURE REGULATOR
	PRESSURE RELIEF VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	DRAIN VALVE
	2-WAY CONTROL VALVE
	3-WAY MODULATING CONTROL VALVE
	FLOW SWITCH
	DIAPHRAGM (PROCESS SYSTEMS)
	AUTO BALL DRIP VALVE
	VALVE IN VERTICAL
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
	ATMOSPHERIC VACUUM BREAKER
	PRESSURE STYLE VACUUM BREAKER

SITE UTILITY SYMBOLS

DESCRIPTION	NEW	EXISTING
SANITARY SEWER	S	S
COLD WATER SUPPLY	W	W
FIRE PROTECTION	F	F
NATURAL GAS	G	G
STORM DRAIN	SD	SD
IRRIGATION	IRR	IRR
VALVE WITH THE VALVE BOX		
FIRE HYDRANT	F.H.	F.H. (E)
FIRE DEPARTMENT INLET CONNECTION	F.D.C.	F.D.C.
CONSTRUCTION		
NEW CONNECTION TO EXISTING	2	
KEYED NOTE		
THRUST BLOCK		
CLEANOUT	SAS C.O.	SAS C.O. (E)
POWER POLE	PP	PP
FENCING		
LIGHT POLE	LP	LP
WATER METER	WM	WM
NATURAL GAS METER	GM	GM
GATE VALVE		
VALVE IN RISER	PIV	PIV
POST INDICATOR VALVE		
REDUCED PRESSURE BACKFLOW		
DOUBLE CHECK BACKFLOW PREVENTER		
DOUBLE DETECTOR CHECK ASSEMBLY		
SANITARY MANHOLE	SAS M.H.	SAS M.H. (E)
SLOPE AND LINEAL FOOTAGE	255' OF 6" @ 0.15% SLOPE	

NOTE: NOT ALL ABBREVIATIONS OR SYMBOLS APPLY TO THIS PROJECT

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NEW MEXICO
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PROFESSIONAL ENGINEER
5/21/21

No.	Description	Date

NMT
West Hall

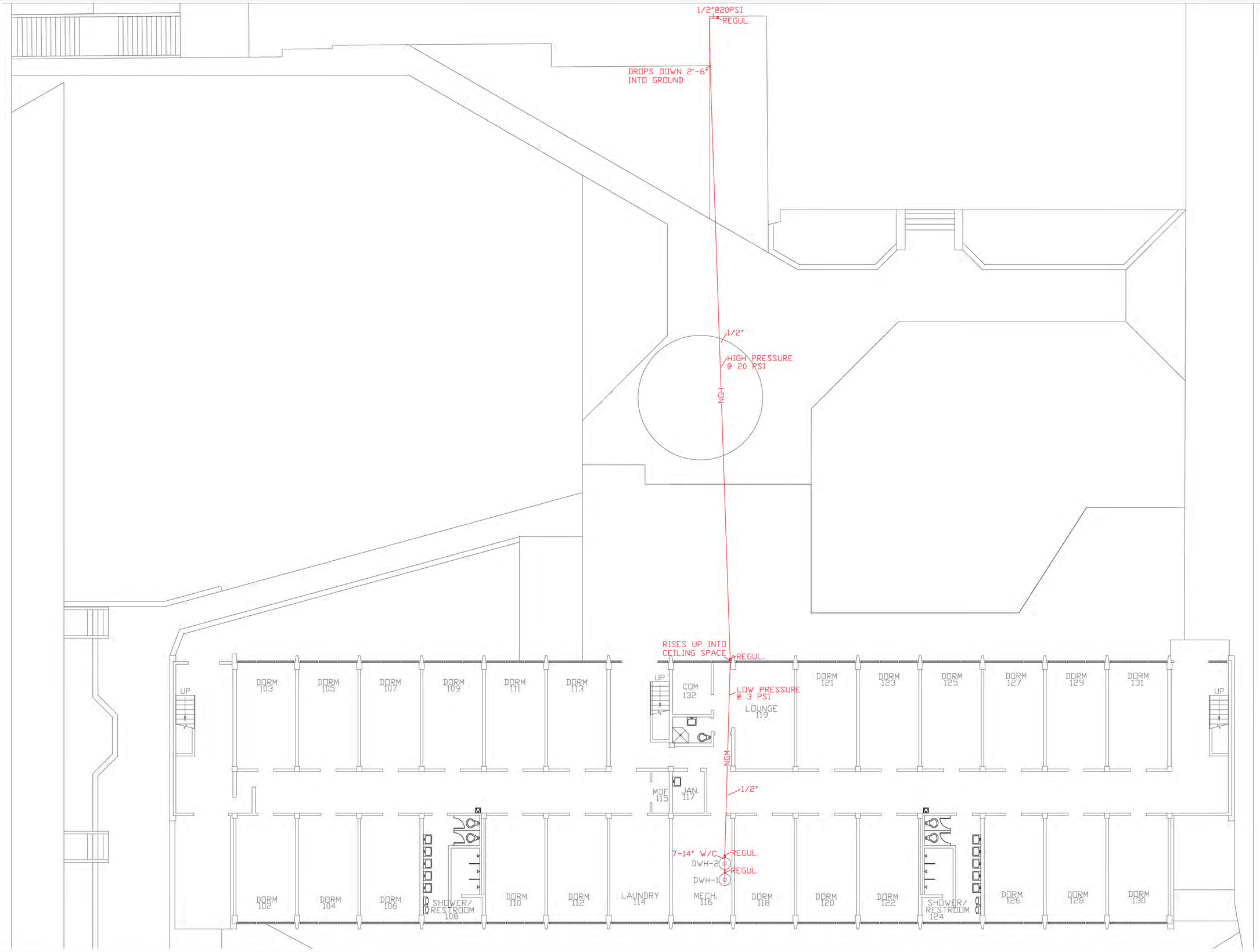
PLUMBING LEGEND

Date	Issue Date
Drawn by	ALC
Checked by	Checker

P001

Scale

6/9/2020 2:16:14 PM



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West Hall

SITE PLAN- GAS LINE NEW WORK

Date	APRIL 16, 2021
Drawn by	Author
Checked by	Checker

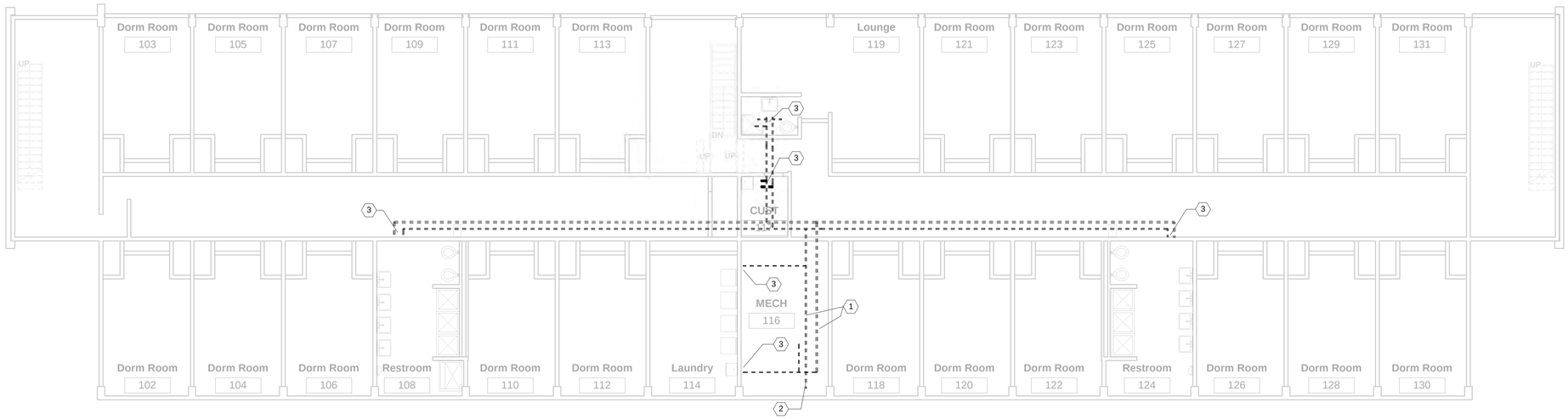
P002

Scale

5/19/2021 10:14:07 AM

KEYED NOTES

1. REMOVE EXISTING DHW AND DCW MAIN DISTRIBUTION LINES.
2. LEAVE EXISTING DCW SHUTOFF VALVE AND BFD
3. DEMO EXISTING DCW/DHW TO FIXTURE BRANCH LINES IN WALL. EXISTING LINES IN CMU WALL TO REMAIN.



1 1st Floor - Existing Plumbing to be Removed
1/8" = 1'-0"

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FIRST FLOOR PLUMBING REMOVAL PLAN

Date	APRIL 16, 2021
Drawn by	ALC
Checked by	Checker

P101

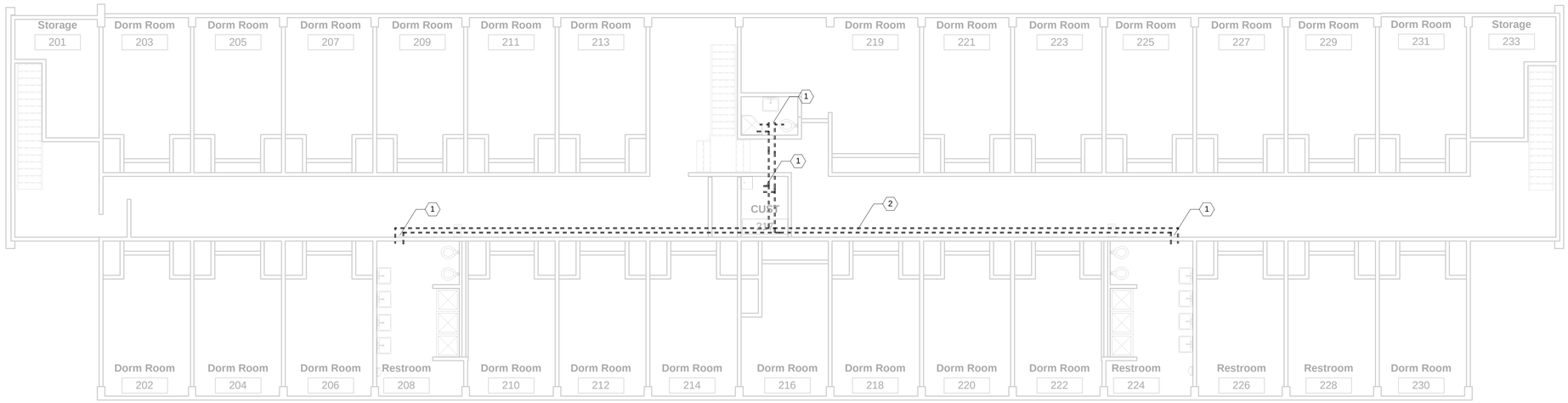
Scale 1/8" = 1'-0"

5/5/2021 10:39:41 AM

KEYED NOTES

1 DEMO EXISTING DCW/DHW TO FIXTURE BRANCH LINES IN WALL. EXISTING LINES IN CMU WALL TO REMAIN.

2 REMOVE EXISTING DHW AND DCW MAIN DISTRIBUTION LINES.



2 2nd Floor - Existing Plumbing to be Removed
1/8" = 1'-0"

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SECOND FLOOR PLUMBING REMOVAL PLAN

Date	APRIL 16, 2021
Drawn by	ALC
Checked by	Checker

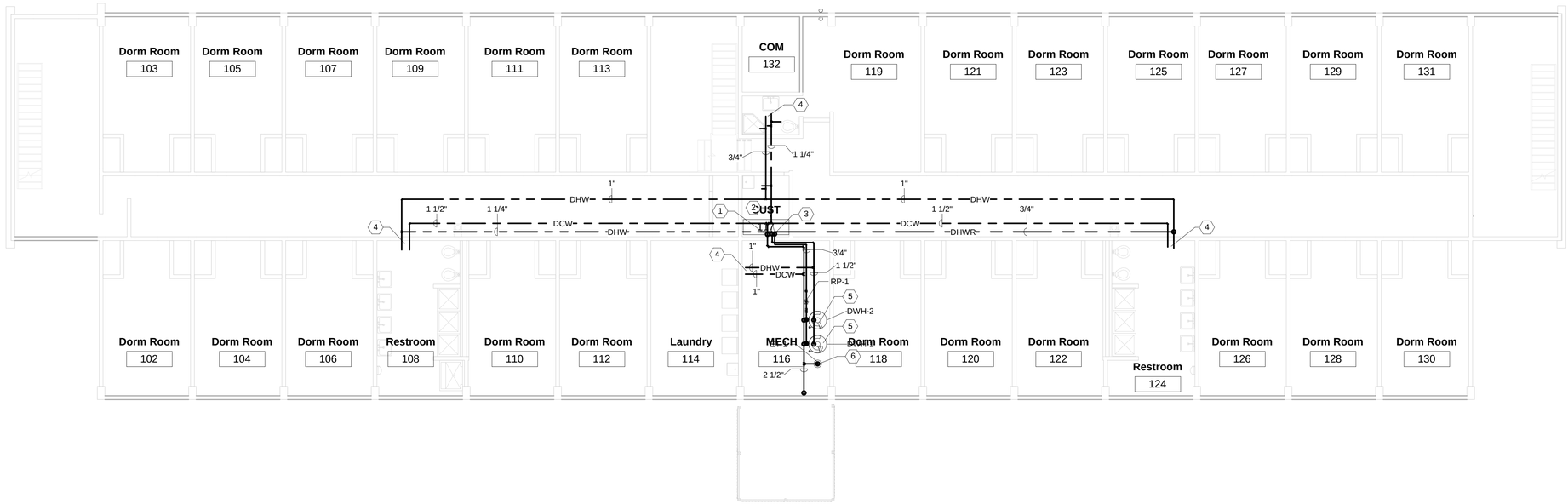
P102

Scale 1/8" = 1'-0"

5/5/2021 10:40:09 AM

KEYED NOTES

1. 1-1/2" DCW UP TO FLOOR ABOVE. SEE P104 FOR CONTINUATION.
2. 1-1/4" DHW UP TO FLOOR ABOVE. SEE P104 FOR CONTINUATION.
3. 3/4" DHWR UP TO FLOOR ABOVE. SEE P104 FOR CONTINUATION.
4. CONNECT NEW DHW AND DCW LINES TO EXISTING BRANCH LINES SERVING FIXTURES
5. DHWH ON 4" HOUSEKEEPING PAD
6. ET ON 4" HOUSEKEEPING PAD



1 1st Floor - Plumbing New Work
1/8" = 1'-0"

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FIRST FLOOR PLUMBING NEW WORK PLAN

Date	APRIL 16, 2021
Drawn by	ALC
Checked by	Checker

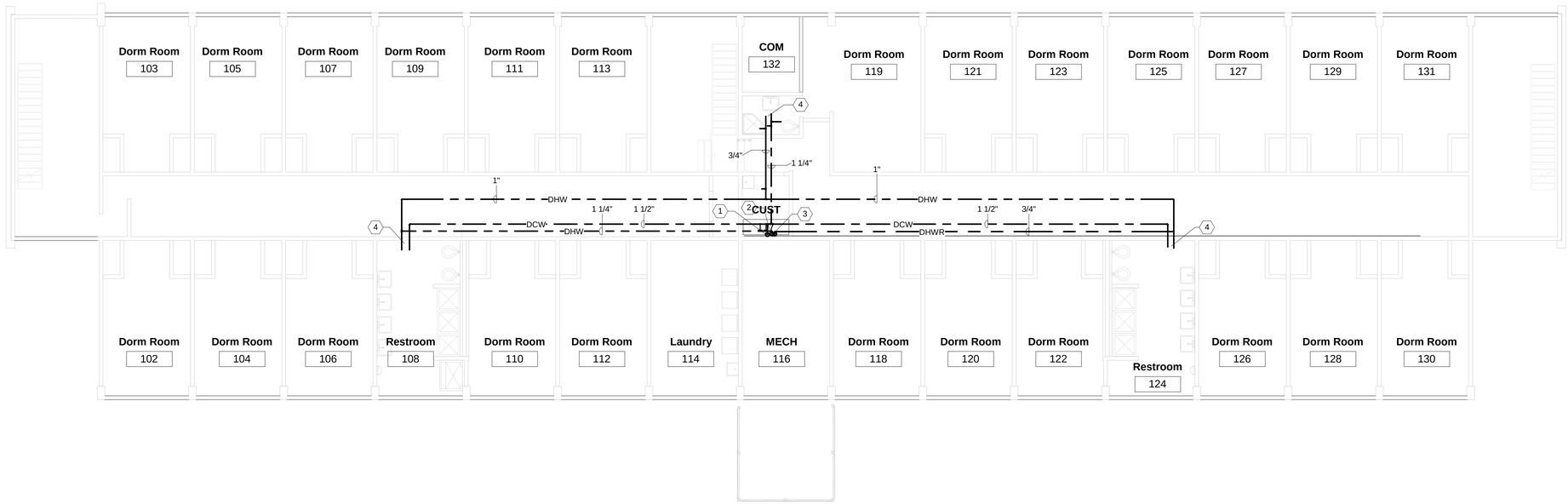
P103

Scale 1/8" = 1'-0"

5/6/2021 12:08:43 PM

KEYED NOTES

1. 1-1/2" DCW DOWN TO FLOOR BELOW. SEE P103 FOR CONTINUATION.
2. 1-1/4" DHW DOWN TO FLOOR BELOW. SEE P103 FOR CONTINUATION.
3. 3/4" DHWR DOWN TO FLOOR BELOW. SEE P103 FOR CONTINUATION.
4. CONNECT NEW DHW AND DCW LINES TO EXISTING BRANCH LINES SERVING FIXTURES



1 2nd Floor - Plumbing New Work
1/8" = 1'-0"

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SECOND FLOOR PLUMBING NEW WORK PLAN

Date	APRIL 16, 2021
Drawn by	Author
Checked by	Checker

P104

Scale 1/8" = 1'-0"

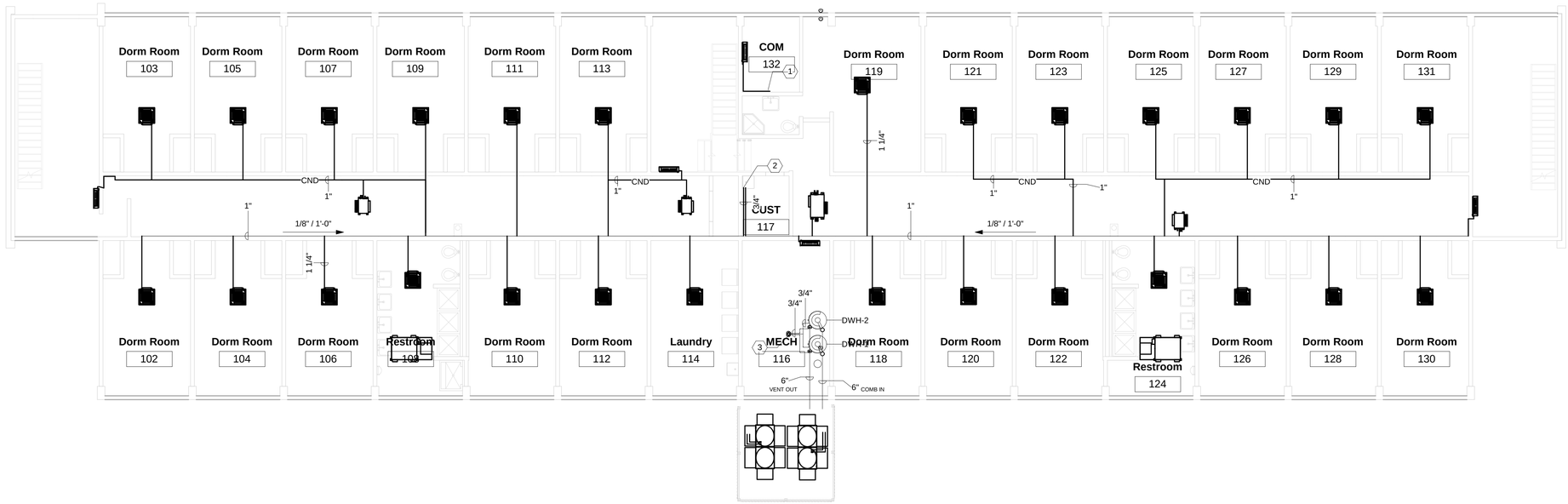
5/6/2021 12:15:41 PM

KEYED NOTES

1 CONNECT COND LINE TO APPROVED TAILPIECE

2 COND LINE DOWN WALL TO MOP SINK. TERMINATE 2" ABOVE OVERFLOW RIM

3 PRV AND FLUE DRAINS TO EXISTING FLOOR SINK. TERMINATE 2" ABOVE FLOOD LEVEL.



1 1st Floor - DWV
1/8" = 1'-0"

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FIRST FLOOR DWV NEW WORK PLAN

Date	APRIL 16, 2021
Drawn by	Author
Checked by	Checker

P105

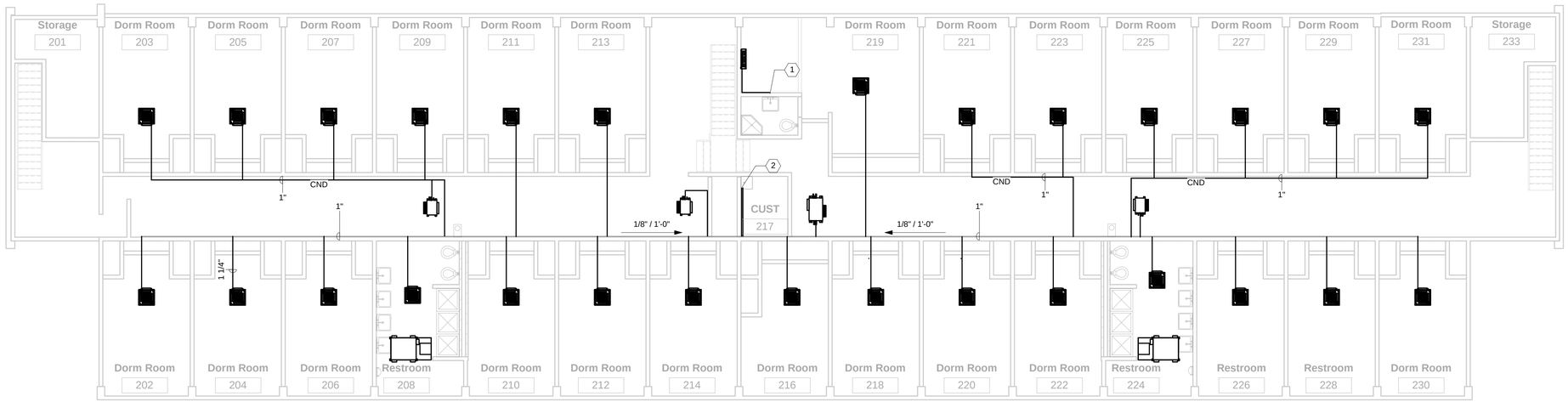
Scale 1/8" = 1'-0"

5/6/2021 12:09:22 PM

KEYED NOTES

1 CONNECT COND LINE TO APPROVED TAILPIECE

2 COND LINE DOWN WALL TO MOP SINK. TERMINATE 2" ABOVE OVERFLOW RIM



1 2nd Floor - DWV
1/8" = 1'-0"

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SECOND FLOOR DWV NEW WORK PLAN

Date	APRIL 16, 2021
Drawn by	Author
Checked by	Checker

P106

Scale 1/8" = 1'-0"

5/5/2021 10:41:30 AM

DOMESTIC WATER HEATERS								
TAG	MANUFACTURER	MODEL	INPUT	EFF.	VOLUME	VOLTAGE	PH	LOAD
DWH-1	A.O. Smith	BTH-250A	250000.0 Btu/h	96%	100.0 gal	120 V	1	600 VA
DWH-2	A.O. Smith	BTH-250A	250000.0 Btu/h	96%	100.0 gal	120 V	1	600 VA

RECIRCULATION PUMP								
TAG	MANUFACTURER	MODEL	FLOW	HEAD (FT)	MOTOR HP	VOLTAGE	PH	FLA
RP-1	Taco	0014-F1	4 GPM	22	1/8	115 V	1	1.45

EXPANSION TANK					
TAG	MANUFACTURER	MODEL	CAPACITY	MAX PRES.	MAX TEMP.
ET-1	Zurn Wilkins	WTTA-30	30 GAL	150.00 psi	240 °F

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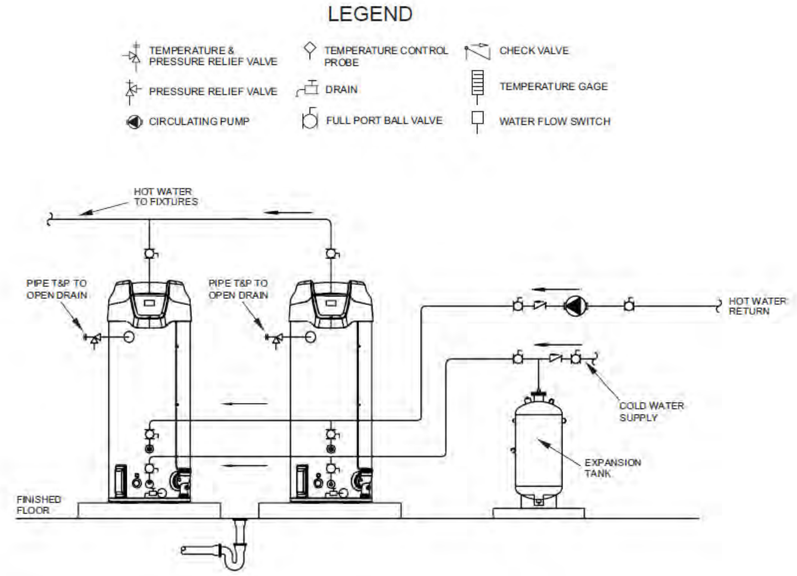
PLUMBING FIXTURE SCHEDULE

Date	APRIL 16, 2021
Drawn by	Author
Checked by	Checker

P201

Scale

5/5/2021 10:41:37 AM



1 P103 2 DWH SCHEMATIC
SCALE: NONE

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PLUMBING DETAILS

Date	APRIL 16, 2021
Drawn by	Author
Checked by	Checker

P301

Scale

5/5/2021 10:42:39 AM

GENERAL ELECTRICAL NOTES (APPLICABLE TO ALL DRAWINGS)

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH EXISTING, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND SPECIAL SYSTEMS DRAWINGS.

2. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CONTRACT DOCUMENTS, (INCLUDING BOTH DRAWINGS AND SPECIFICATIONS), INDUSTRY STANDARDS, AND IBC 2015 AND LOCAL AMENDMENTS AND APPLICABLE CODES.

3. THE CONTRACTOR SHALL LOCATE DEVICES AND OUTLETS AT LOCATIONS SHOWN ON THE DRAWINGS AND SHALL COORDINATE EXACT LOCATIONS WITH OWNERS EQUIPMENT AND EXISTING, ARCHITECTURAL DRAWINGS, AND MILLWORK SHOP DRAWINGS.

4. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' PUBLISHED RECOMMENDATIONS FOR SERVICE INTENDED, AS INTERPRETED BY THE ENGINEER. THE INSTALLATION OF ALL THE MATERIALS AND EQUIPMENT SHALL BE PERFORMED BY EXPERIENCED AND LICENSED PERSONNEL.

5. PROVIDE COMPLETE RACEWAY SYSTEM FOR ALL WIRING UNLESS SPECIFICALLY NOTED OTHERWISE. THIS INCLUDES, BUT IS NOT LIMITED TO:
   A. FEEDER WIRING
   B. BRANCH CIRCUIT WIRING
   C. CONTROL WIRING
   D. FIRE ALARM WIRING
   E. CCTV WIRING
   F. SECURITY SYSTEMS
   G. OTHER AUXILIARY SYSTEMS WIRING.
   H. PUBLIC ADDRESS

   WIRING METHODS
   i) CONCEAL ALL RACEWAYS EXCEPT IN MECHANICAL/ELECTRICAL EQUIPMENT ROOMS WITH MASONRY WALLS. INSTALL RACEWAYS AT LEAST 6 INCHES AWAY FROM ANY HEAT PRODUCING ITEMS.
   ii) PROVIDE ADEQUATE AND STURDY SUPPORT FOR ALL PARTS OF RACEWAY SYSTEMS. INSTALL NYLON PULL CORD IN ALL EMPTY RACEWAYS.

6. THE FOLLOWING SYSTEMS THE CONTRACTOR MAY USE PLENUM/LOW SMOKE CABLES FOR CLASS 1 POWER LIMITED CIRCUITS AND INSTALLED PER WIRING METHODS INDICATED BELOW.

   A. COMMUNICATIONS WIRING
   B. TELEPHONE WIRING
   C. DATA WIRING

   WIRING METHODS.
   i) PROVIDE INDEPENDENT SUPPORT FROM THE BUILDING STRUCTURE FOR EACH WIRING SYSTEMS AT NOT TO EXCEED 36 INCHES OR CLOSER IF REQUIRED IN THE NATIONAL ELECTRICAL CODE (NFPA-70).
   ii) CONCEAL ALL WIRING EXCEPT IN MECHANICAL/ELECTRICAL EQUIPMENT ROOMS.
   iii INSTALL WIRING AT LEAST 36 INCHES AWAY FROM ANY HEAT PRODUCING ITEMS.
   iv) PROVIDE RACEWAYS FOR ALL WIRING RUNS IN INACCESSIBLE WALLS, SHAFTS, OR CEILING SPACES. PROVIDE ADEQUATE AND STURDY SUPPORT FOR ALL PARTS OF RACEWAY SYSTEMS. INSTALL NYLON PULL CORD IN ALL EMPTY RACEWAYS.
   v) COMPLY WITH NATIONAL ELECTRICAL CODE (NFPA-70) REQUIREMENTS.
   vi) RUN WIRING PARALLEL TO BUILDING ARCHITECTURAL AND STRUCTURAL COMPONENTS.

7. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO PROTECT ALL EXISTING FACILITIES, UTILITIES, AND PROPERTY. CONTRACTOR SHALL ALSO TAKE PROPER PRECAUTIONS OVER PROPERTY WHICH HE MAY TRANSPORT, HOIST OR MOVE MATERIAL, EQUIPMENT, AND DEBRIS AND SHALL REPAIR TO ARCHITECT'S SATISFACTION ALL DAMAGES CAUSED DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE AND NOTIFY THE BUILDING OWNER FOR APPROVAL AND SCHEDULING OF ANY BUILDING SYSTEM INTERRUPTION.

8. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR SERVICE INTENDED AS INTERPRETED BY THE ENGINEER. THE INSTALLATION OF ALL EQUIPMENT SHALL BE MADE BY EXPERIENCED CRAFTSMAN IN A NEAT WORKMANLIKE MANNER. ALL MATERIALS, TOOLS, COSTS AND SERVICES NECESSARY TO COMPLETELY INSTALL ALL ELECTRICAL WORK SHALL BE FURNISHED BY THE CONTRACTOR.

9. CIRCUIT BREAKERS FOR INSTALLATION IN EXISTING PANELBOARDS SHALL BE BY THE MANUFACTURER OF THAT PANELBOARD. MATCH THE SHORT CIRCUIT RATING OF THE EXISTING PANEL RATINGS. NEW EQUIPMENT FOR DISTRIBUTION SHALL MATCH EXISTING EQUIPMENT.

10. ALL OUTAGES OF ELECTRICAL UTILITIES, ELECTRICAL SERVICE TO AREAS, OUTAGES OF FIRE ALARM SYSTEMS, COMMUNICATIONS SYSTEMS, SECURITY SYSTEMS, AND TELEPHONE AND DATA SYSTEMS SHALL BE SCHEDULED WITH AND APPROVED BY THE OWNER PRIOR TO THE OUTAGE.

11. THE TERM "PROVIDE" USED IN THE DRAWINGS AND SPECIFICATIONS IMPLIES THE CONTRACTOR IS TO FURNISH, TRANSPORT, INSTALL, CONNECT, WARRANT AND START-UP, INCLUSIVELY.

12. CIRCUITING SHOWN IS DIAGRAMMATIC ONLY, INDICATING CIRCUIT NUMBERS. CONTRACTOR SHALL EXTEND HOT, NEUTRAL, SWITCH-LEG AND GROUND CONDUCTORS TO ALL ELECTRICAL EQUIPMENT INDICATED TO PROVIDE A FULLY FUNCTIONAL SYSTEM.

13. PROVIDE BRANCH CIRCUIT WIRING FOR ALL POWER AND LIGHTING CIRCUITS. WIRE SIZE SHALL BE A MINIMUM OF #12 THWN COPPER IN 1/2" RIGID, EMT OF METALLIC FLEXIBLE CONDUIT. PROVIDE #10 WIRE FOR ALL CIRCUITS FARTHER THAN 100 FEET. ALL RACEWAYS SHALL CONTAIN A GREEN INSULATED GROUND WIRE SIZED PER N.E.C. BRANCH CIRCUITS SHALL HAVE FULL SIZE DEDICATED NEUTRALS.

14. PROVIDE LARGER CONDUCTORS AS REQUIRED TO ACCOUNT FOR DERATING OF CONDUCTORS DUE TO TEMPERATURES ABOVE AMBIENT CONDITIONS, PER NOTE 8 OF N.E.C. AMPACITY TABLES AND FOR VOLTAGE DROP.

15. REGARDLESS OF CIRCUITING INDICATED ON THE DRAWINGS THE CONTRACTOR SHALL BALANCE THE LOADS BETWEEN PHASES ON ALL EXISTING AND NEW PANELBOARDS WITHIN SCOPE OF WORK. UPDATE PANEL DIRECTORIES.

16. PROVIDE ELECTRIC SERVICE REQUIRED BY ALL TRADES INVOLVED IN THE CONSTRUCTION OF THE PROJECT, RECEPTACLES, CORDS, LIGHTS AND LEVELS OF ILLUMINATION SHALL CONFORM TO OSHA, NEC AND LOCAL CODES AND ORDINANCES. PROVIDE TEMPORARY POWER TO THE SITE WHEN REQUIRED.

17. PROVIDE ENGRAVED NAMEPLATES ATTACHED WITH SCREWS ON ALL NEW AND EXISTING PANELS, ENCLOSURES AND EQUIPMENT WITHIN THE SCOPE OF WORK.

18. PROVIDE LOCK-ON HANDLES FOR ALL BREAKERS SERVING EMERGENCY AND EXIT LIGHTS. PROVIDE SWITCHING DUTY BREAKERS FOR ALL UNSWITCHED LIGHTING CIRCUITS.

19. THE TERM "ON" USED IN THE CIRCUITING IMPLIES THE CIRCUIT IS SHARED WITH OTHER DEVICES WITH SAME CIRCUIT NUMBER AND TERM.

20. SPECIAL SYSTEMS CONTRACTORS SHALL MODIFY THE EXISTING SYSTEMS AS REQUIRED TO PROVIDE EXTENSION OF EACH SYSTEM. THE CONTRACTORS SHALL THEREFORE BE RESPONSIBLE AND WARRANT THE PROPER OPERATION OF EACH SYSTEM IN ITS ENTIRETY.

21. INSTALL RECEPTACLES WITH GROUND PRONG FACING UP. LABEL RECEPTACLE AND SWITCH PLATES WITH PANEL AND CIRCUIT NUMBER.

22. PANEL BOARDS SHALL HAVE COPPER BUSING, FULL SIZE NEUTRALS, NEUTRAL BARS, GROUND BARS, PANEL DIRECTORIES, LOCKABLE DOOR-IN-DOOR CONSTRUCTION. PROVIDE NAMEPLATE, VOLTAGE AND ARC FLASH LABELS PER N.E.C.

ELECTRICAL LEGEND

LIGHTING

LETTER ADJACENT TO LIGHT FIXTURE DESIGNATES LIGHT FIXTURE TYPE. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE AND SPECIFICATIONS. NOT ALL LIGHT FIXTURES SHOWN ON THE DRAWINGS MAY BE INDICATED IN THIS LEGEND. FINAL LOCATION OF ALL LIGHT FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. ALL LIGHT FIXTURES SHALL BE INSTALLED WITH FIXTURE WHIPS AND J-BOXES AS REQUIRED.

SYMBOL	DESCRIPTION AND/OR COMMENTS
A OR A	CEILING OR WALL MOUNTED LIGHT FIXTURE RESPECTIVELY.
A OR A	CEILING OR WALL MOUNTED LIGHT FIXTURE RESPECTIVELY.
A OR A	ROUND OR SQUARE RECESSED DOWNLIGHT RESPECTIVELY.
A OR A	SURFACE MOUNTED OR SUSPENDED LIGHT FIXTURE WITH FLEX CONNECTION TO J-BOX. LETTER DENOTES FIXTURE TYPE. REFER TO FIXTURE SCHEDULE FOR MOUNTING.
A OR A	RECESSED MOUNTED LIGHT FIXTURE WITH FLEX CONNECTION TO J-BOX. LETTER DENOTES FIXTURE TYPE.
AE OR AE	HATCHING OF LIGHT FIXTURE AND/OR "E" AS A LAST LETTER INDICATES FIXTURE WITH EMERGENCY BATTERY PACK.
A	SURFACE MOUNTED LIGHT STRIP.
EM OR EM	WALL MOUNTED EMERGENCY LIGHT FIXTURE WITH INTEGRAL EMERGENCY BATTERY PACK. CONNECT TO NEAREST UNSWITCHED LIGHTING CIRCUIT.
WALL OR CEILING	CEILING OR WALL MOUNTED EXIT LIGHT OR COMBO EXIT/EMERGENCY LIGHT WITH CHEVRONS AND FACES AS INDICATED. REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE.

FINAL LOCATION OF ALL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. ELECTRICAL EQUIPMENT SHALL BE INSTALLED WITH ADEQUATE WORKING CLEARANCES REQUIRED PER NFPA 70 (NEC).

EQUIPMENT AND DEVICES

SYMBOL	DESCRIPTION AND/OR COMMENTS
FLOOR / WALL / CEILING	J-BOX SIZED AS REQUIRED PER NEC.
OR	PUSHBUTTON. MOUNT AT 48" AFF TO TOP OF DEVICE.
J 30/2P	HEAVY DUTY DISCONNECT SWITCH, 30/2P DENOTES 30A., 2 POLE
	120/208V-3ø-4W PANEL BOARD. REFER TO PANEL SCHEDULES.
	277/480V 3ø-4W PANEL BOARD. REFER TO PANEL SCHEDULES.
	RECESSED MOUNT 120/208V-3ø-4W PANEL BOARD. REFER TO PANEL SCHEDULES.
	RECESSED MOUNT 277/480V 3ø-4W PANEL BOARD. REFER TO PANEL SCHEDULES.
SPD	TRANSIENT VOLTAGE SURGE SUPPRESSOR. MOUNT DEVICE ADJACENT TO PANEL INDICATED.
MTGB OR TGB	TELECOMMUNICATIONS GROUND BUSS BAR. EXTEND AND CONNECT #1/0 AWG IN 1" CONDUIT TO GROUNDING GRID SYSTEM.
T OR	DRY TYPE TRANSFORMER.
WALL MOUNTED SINGLE / DUPLEX / QUADPLEX CEILING MOUNTED FLOOR MOUNTED	CONVENIENCE RECEPTACLE, 125VAC-20A, NEMA 5-20R. MOUNT AT 18" TO CENTER OF DEVICE UNLESS INDICATED OTHERWISE. RECEPTACLE SUBSCRIPT DESIGNATOR: SS-SURGE SUPPRESSION RECEPTACLE IS-SURGE SUPPRESSION RECEPTACLE WITH ISOLATED GROUND. K-RECEPTACLE WITH KEYED COVER PLATE WP-RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER TR-TAMPER RESISTANT RECEPTACLE TV-RECEPTACLE FOR T.V. MONITOR. MOUNT AT 72" UNLESS OTHERWISE NOTED TO CENTER OF DEVICE AND NOT TO INTERFERE WITH T.V BRACKET. VERIFY BRACKET DIMENSIONS AND EXACT LOCATION PRIOR TO ROUGH-IN. IG-ISOLATED GROUND RECEPTACLE. MOUNT AT 18" TO CENTER OF DEVICE UNLESS INDICATED OTHERWISE. XP-EXPLOSION PROOF RECEPTACLE MOUNT AT 18" TO CENTER OF DEVICE UNLESS INDICATED OTHERWISE. CL-CLOCK OUTLET WITH HANGER. • -HOSPITAL GRADE. TL-TWIST LOCKING RECEPTACLE.
	DATA VOICE OUTLET
	DATA OUTLET
	PHONE OUTLET

GENERAL

DETAIL SYMBOL -USED WHEN DETAIL IS SHOWN ON ANOTHER SHEET

1 / E000 — SECTION OR DETAIL IDENTIFICATION
LETTER FOR SECTION
NUMBER FOR DETAIL
NUMBER OF SHEET ON WHICH THE CONDITION IS DRAWN

REFER TO — RE: 1/3

EQUIPMENT AND DEVICES

SYMBOL	DESCRIPTION AND/OR COMMENTS
	GROUND-FAULT CIRCUIT INTERRUPTING RECEPTACLE. MOUNT AT 18" TO CENTER OF DEVICE UNLESS INDICATED OTHERWISE. SUBSCRIPT DESIGNATOR: EWC-ELECTRIC WATER COOLER GROUND-FAULT CIRCUIT INTERRUPTING RECEPTACLE. MOUNT BEHIND WATER COOLER IN AN ACCESSIBLE LOCATION TO ALLOW OPERATION OF TEST AND RESET BUTTONS ON RECEPTACLE. WP-GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE 125VAC - 20A, NEMA 5-20R WITH WHILE-IN-USE COVER. MOUNT AT 18" TO CENTER OF DEVICE UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION.
S	TOGGLE SWITCH, 120/277V, 20A, UP 48" UNLESS OTHERWISE NOTED. SUBSCRIPT DESIGNATOR: 3-THREE-WAY TOGGLE SWITCH. OC-WALL-MOUNTED OCCUPANCY SENSOR. UP 48". REFER TO CONTROL DIAGRAM. T - FRACTIONAL - HORSEPOWER MANUAL STARTER/DISCONNECT SWITCH WITH MELTING-ALLOY-TYPE THERMAL OVERLOAD 1HP RATED.
	WIRE MOLD NON-METALIC SURFACE RACEWAY SUBSCRIPT DESIGNATOR: A-WIRE MOLD, 5400 TBWH SERIES WITH 5450T AND 5507D DEVICE PLATES AND BRACKETS AND 5410D ENTRANCE END FITTING. MOUNTED AT LOCATIONS AND SPACING AS SHOWN ON POWER AND SPECIAL SYSTEMS PLANS. CONNECT RECEPTACLES TO CIRCUITS AS SHOWN ON POWER DRAWINGS PROVIDE DATA BRACKETS INSERTS WHERE SHOWN ON SPECIAL SYSTEMS DRAWINGS. COORDINATE LOCATION OF DATA DROPS WITH COMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION. B-WIRE MOLD, 800 BACWH SERIES WITH 2347 AND 5507 DEVICE BOXES AND PLATES AND 810A ENTRANCE END FITTING MOUNTED AT LOCATIONS AND SPACING AS SHOWING ON POWER DRAWINGS. COORDINATE EXACT LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
OC	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, MOUNT AT 6" BELOW CEILING TO TOP OF DEVICE.
OC	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
OS	LOW VOLTAGE AFTER HOURS OVERRIDE SWITCH.
RC	LIGHTING ROOM CONTROLLER/POWER PACK, REFER TO LIGHTING CONTROL DIAGRAMS FOR EXACT REQUIREMENTS
R	ROOF MOUNTED GFCI DUPLEX RECEPTACLE, WEATHERPROOF WITH WHILE IN USE COVER.
M	MOTOR WITH HORSEPOWER INDICATED.
J	WALL MOUNTED 4-11/16 X 4-11/16 X 2-1/8 BOX FOR CONNECTION OF POWER CABLING TO MODULAR FURNITURE. PROVIDE MODULAR FURNITURE CONNECTION AND WHIP PER NEC AND FURNITURE MANUFACTURES REQUIREMENTS.
T	T'STAT BY MECHANICAL. ROUGH-IN BY ELECTRICAL. REFER TO T'STAT ROUGH-IN DETAIL.
PB	PULL BOX. SIZE AS REQUIRED.
PP	POWER POLE.
OR M	ELECTRIC METER.
	GROUND PER NEC UNLESS INDICATED OTHERWISE.

RACEWAY AND BRANCH CIRCUITING

SYMBOL	DESCRIPTION AND/OR COMMENTS
LA-1	HOME RUN TO PANEL & CIRCUIT INDICATED. REFER TO PANEL SCHEDULES FOR CONDUIT AND WIRE SIZES UNLESS INDICATED OR NOTED OTHERWISE.
	CONDUIT (SIZE AS NOTED) WITH PULL WIRE STUBBED WHERE INDICATED. PROVIDE BUSHING AT END OF CONDUIT.
	LINE TYPE INDICATES EXISTING TO REMAIN ELECTRICAL, DEVICES, EQUIPMENT, ECT.
	LINE TYPE INDICATES EXISTING TO BE DEMOLISHED ELECTRICAL EQUIPMENT, DEVICES, ETC.
XXX	LINE TYPE INDICATES NEW ELECTRICAL DEVICES, EQUIPMENT, ETC.
	SECOND AND THIRD MODIFIER. DESIGNATES CIRCUIT TYPE. (SEE BELOW) FIRST MODIFIER. "O" DESIGNATES OVERHEAD, "U" DESIGNATES UNDERGROUND, "S" DESIGNATES SURFACE.
OE	OVERHEAD ELECTRICAL.
UE	UNDERGROUND ELECTRICAL.
EUE	EXISTING UNDERGROUND ELECTRICAL.
OT	OVERHEAD TELEPHONE.
UT	UNDERGROUND TELEPHONE.
OME	OVERHEAD MEDIUM VOLTAGE ELECTRICAL (13.8KV).
UME	UNDERGROUND MEDIUM VOLTAGE ELECTRICAL (13.8KV).
UT/D	UNDERGROUND TELEPHONE/DATA.

REV.	DATE	BY	DESCRIPTION

DESIGNED ES
DRAWN CAD
CHECKED JG
DATE 04/30/21

JAVIER GARCIA — NEW MEXICO — 14969 — REGISTERED PROFESSIONAL ENGINEER — 4/30/21

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ELECTRICAL LEGEND AND GENERAL NOTES

NEW MEXICO TECH WEST HALL

JOB NO. 3619
DRAWING NO. E0.0

ELECTRICAL DEMOLITION NOTES: (APPLICABLE TO ALL SHEETS)

1. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL AND PLUMBING DEMOLITION WORK DRAWINGS TO DETERMINE AND COORDINATE THE EXTENT OF THE DEMOLITION WORK REQUIRED FOR THE PROJECT.

2. THE CONTRACTOR SHALL VISIT THE SITE DURING THE BIDDING PERIOD TO COMPLETELY FAMILIARIZE SELF WITH THE SCOPE OF WORK, CONDITIONS, AND VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS FOR THIS PROJECT AND INCLUDE IN THE BID ALL NECESSARY COSTS ASSOCIATED WITH COMPLETION OF THE WORK.

3. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING INSTALLATION. BEGINNING OF DEMOLITION MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.

4. DEMOLITION WORK CONSISTS OF AND IS NOT LIMITED TO THE REMOVAL, RELOCATION, STORAGE, AND DISPOSAL OF EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT, LIGHT FIXTURES, SWITCHES, POWER OUTLETS, FIRE-ALARM DEVICES, PUBLIC ADDRESS, TELEPHONE/ DATA SYSTEMS, AND ANY CONTROL POWER WIRING TO EXISTING MECHANICAL AND PLUMBING EQUIPMENT.

5. REMOVE ALL EXISTING BRANCH CIRCUITING AND EQUIPMENT (STARTERS, DISCONNECTS, DEVICES, WIRING, CABLES, AND CONDUIT), TO ALL LOADS THAT ARE BEING REMOVED BACK TO THE SOURCE OF SUPPLY UNLESS NOTED OTHERWISE.

6. DEMOLISH AND EXTEND EXISTING ELECTRICAL WORK AS INDICATED OR NOTED. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

7. REMOVE EXPOSED ABANDONED CONDUIT AND WIRING TO SOURCE OF SUPPLY IN ITS ENTIRETY, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, REMOVE ALL WIRING, AND PATCH SURFACES.

8. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

9. DISCONNECT AND REMOVE ABANDONED PANELBOARDS, DISTRIBUTION EQUIPMENT AND LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.

10. CONTRACTOR SHALL CIRCUIT TRACE ALL CIRCUITS AND EQUIPMENT THAT ARE BEING REMOVED OR RELOCATED. PRIOR TO DEMOLITION. CIRCUIT TRACE CIRCUITS SERVING OTHER FLOORS OR AREAS NOT BEING REMOVED AND INSURE THEY REMAIN FUNCTIONAL. MODIFY CONDUIT AND WIRING TO MAINTAIN CIRCUIT CONTINUITY TO REMAINING AREAS. RECIRCUIT THESE AREAS TO REMAINING PANELS AS REQUIRED.

11. COORDINATE UTILITY SERVICE OUTAGES WITH UTILITY COMPANY.

12. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.

13. EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. PROVIDE PORTABLE TEMPORARY GENERATOR FOR OUTAGES EXTENDING LONGER THAN ONE (1) HOUR. OBTAIN PERMISSION FROM OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

14. EXISTING FIRE ALARM SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS ACCEPTED. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. PROVIDE FIRE WATCH AS REQUIRED PER LOCAL AUTHORITY HAVING JURISDICTION DURING DOWN TIME. NOTIFY OWNER AND LOCAL FIRE SERVICE AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

15. EXISTING TELEPHONE, PUBLIC ADDRESS, SECURITY, CLOCK SYSTEMS: MAINTAIN EXISTING SYSTEMS IN SERVICE UNTIL NEW SYSTEMS ARE COMPLETE AND READY FOR SERVICE. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER AND TELEPHONE UTILITY COMPANY AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

16. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS AS APPROPRIATE.

17. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS INDICATED OTHERWISE.

18. CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH IS TO REMAIN OR IS TO BE REUSED.

19. PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE BLANK COVER PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT. ALL SPARE BREAKERS SHALL BE TURNED OFF AND LABELED AS SUCH.

20. LUMINAIRES: CLEAN EXISTING LUMINAIRES TO REMAIN OR BE REUSED. USE MILD DETERGENT TO CLEAN ALL EXTERIOR AND INTERIOR SURFACES; RINSE WITH CLEAN WATER AND WIPE DRY. REPLACE LAMPS, BALLASTS, AND BROKEN ELECTRICAL PARTS OR LENSES.

21. FOR WIRING AND RACEWAYS FOR REUSE, PROPERLY TERMINATE CONDUCTORS, TAG THE CONDUCTORS AND RACEWAYS WITH IDENTIFICATION TAGS INDICATING PANELBOARD/CIRCUIT NUMBER OR CONDUIT TERMINATION POINT. PROVIDE COVERS FOR ALL J-BOXES.

22. ALL ELECTRICAL DEMOLITION WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. ANY DAMAGE DONE TO ANY ADJACENT CONSTRUCTION OR FINISHES SHALL BE REPAIRED TO THE ARCHITECT/OWNER'S SATISFACTION AT NO COST TO THE OWNER.

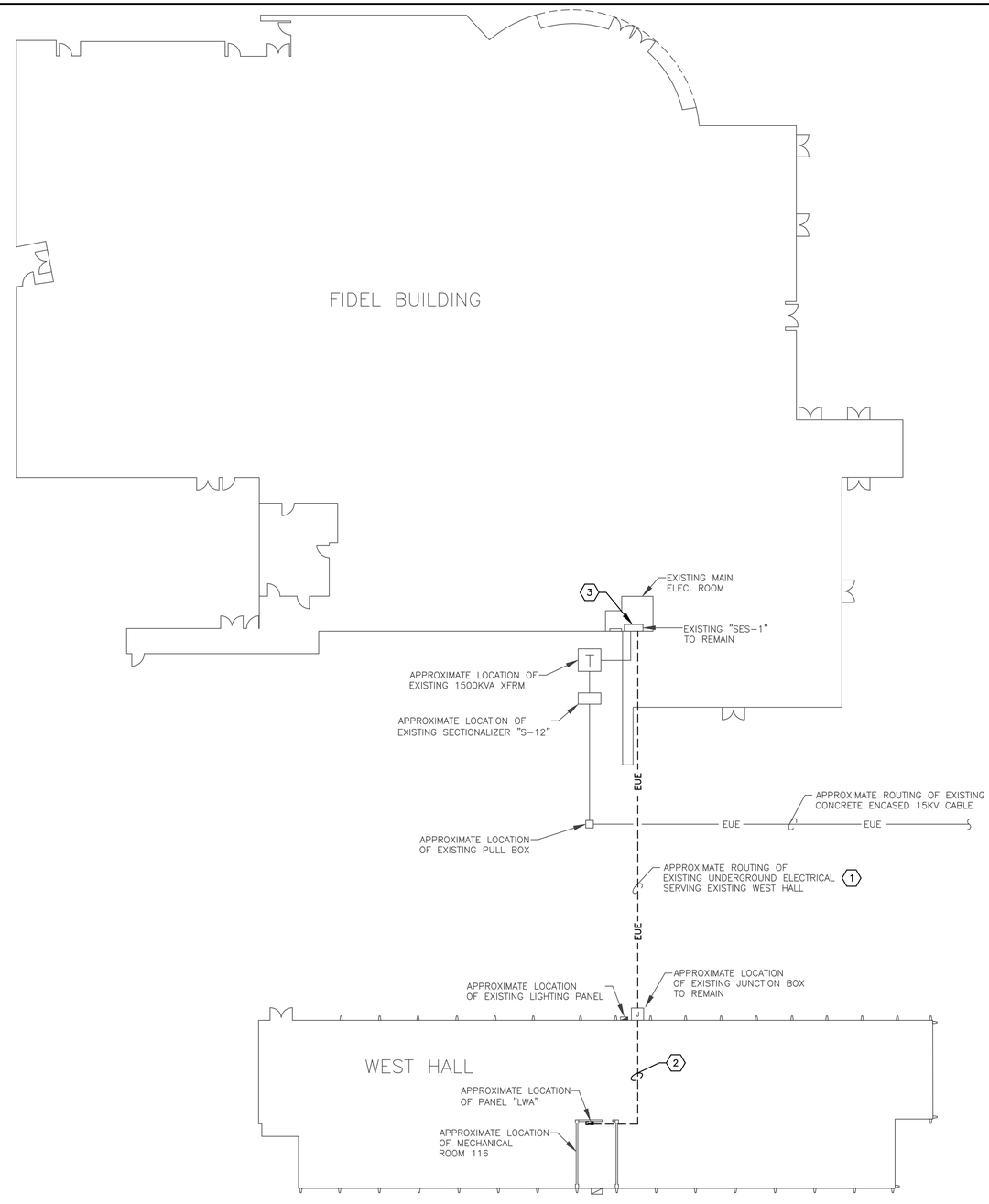
23. THE CONTRACTOR SHALL PROVIDE CONTAINMENT AND DISPOSE OF DUST AND DEBRIS DURING DEMOLITION AND CONSTRUCTION.

24. THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION WORK SUCH THAT NORMAL DAY-TO-DAY OPERATIONS CAN BE ACCOMPLISHED WITHOUT DELAY. THE CONTRACTOR SHALL COORDINATE PHASING AND SCHEDULING OF WORK WITH OWNER AND SHALL PROVIDE NIGHT CREWS AS REQUIRED BY OWNER'S PHASING PLAN.

25. THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING DURING DEMOLITION AND CONSTRUCTION PER INDUSTRY SAFETY STANDARDS.

26. ALL MATERIALS DISCONNECTED AND REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER, AND SHALL BE NEATLY PACKAGED BY THE CONTRACTOR FOR REUSE BY THE OWNER. THE OWNER SHALL DETERMINE WHAT DEMOLITION MATERIAL ARE TO BE SALVAGED. STOCKPILE SALVAGED MATERIALS IN AREAS DESIGNATED BY THE OWNER.

27. CONTRACTOR SHALL COORDINATE ROUTING OF NEW ELECTRICAL FEEDERS OR BRANCH CIRCUITS WITH EXISTING BRANCH CIRCUITS, MECHANICAL DUCTWORK, FIRE PROTECTION, PLUMBING, GAS, AIR AND OTHER SPECIAL SYSTEMS. CONTRACTOR SHALL VISIT SITE AND EXAMINE THE PROPOSED ROUTING PATH OF NEW FEEDER. CONTRACTORS SHALL IDENTIFY EXISTING SITE UTILITIES, LIGHT FIXTURES, DEVICES, ELECTRICAL FEEDERS, BRANCH CIRCUITS, TEL/DATA, FIRE ALARM AND SECURITY CIRCUITS REQUIRING RELOCATION. CONTRACTOR SHALL RELOCATE IDENTIFIED SERVICES IN A NEAT AND WORKMAN LIKE MANNER AS REQUIRED TO ACCOMMODATE NEW WORK AT NO ADDITIONAL COST TO OWNER. MODIFY/EXTEND CONDUIT AND WIRING AS REQUIRED. CONTRACTOR SHALL PREPARE DRAWING INDICATING PROPOSED ROUTING OF BRANCH CIRCUITS AND FEEDER WITH PULLBOX LOCATIONS AND SIZES AND EXISTING SERVICES BEING RELOCATED. CONTRACTOR SHALL CORE, CUT, PATCH, SEAL AND PAINT ALL WALLS, FLOORS, CEILINGS REQUIRED TO INSTALL NEW FEEDER.



GENERAL NOTES

1. REFER TO ELECTRICAL LEGEND AND ELECTRICAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL CONFIRM EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DEMOLITION.

KEYED NOTES

1. CONTRACTOR SHALL REMOVE ALL WIRING FROM "SES-1" IN MAIN ELEC. ROOM OF FIDEL BUILDING TO EXISTING PANEL "LWA" IN WEST HALL. ALL UNDERGROUND CONDUITS SHALL BE CAPPED AND ABANDONED IN PLACE.
2. REMOVE CONDUIT AND WIRING IN THEIR ENTIRETY WITHIN WEST HALL BUILDING. CONTRACTOR SHALL COORDINATE REMOVAL AND REPLACEMENT OF DAMAGED FURR-OUT. REPLACE AND PAINT FURR-OUT TO MATCH ADJACENT WALLS.
3. CONTRACTOR SHALL LABEL 150A, 3 POLE CIRCUIT BREAKER IN EXISTING "SES-1" CURRENTLY SERVING WEST HALL PANEL "LWA" AS SPARE.

N

1 / ED1.0 ELECTRICAL SITE PLAN - DEMOLITION

0 10' 20' 40' 60' 80'

SCALE: 1"=20'-0"

REV.	DATE	BY	DESCRIPTION

DESIGNED ES
DRAWN CAD
CHECKED JG
DATE 04/30/21

JAVIER GARCIA NEW MEXICO 14969 REGISTERED PROFESSIONAL ENGINEER 4-30-21

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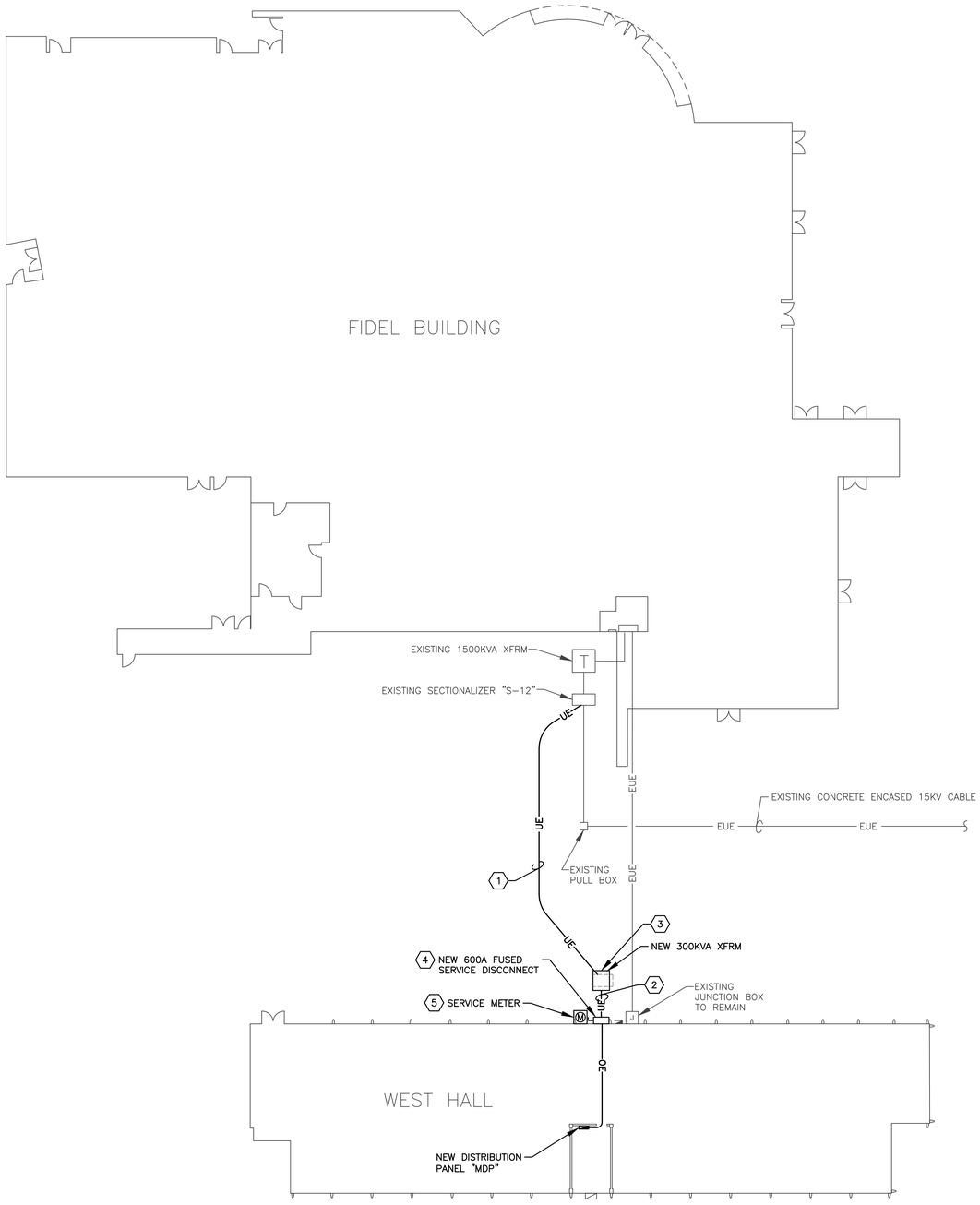
ELECTRICAL SITE PLAN - DEMOLITION

NEW MEXICO TECH WEST HALL

JOB NO. 3619
DRAWING NO. ED1.0

KEYED NOTES

1. COORDINATE WITH NEW MEXICO TECH ON ROUTING AND PRIMARY SIZE REQUIREMENTS.
2. REFER TO ELECTRICAL RISER DIAGRAMS ON SHEET E4.0 FOR ADDITIONAL INFORMATION OF CONCRETE ENCASED SECONDARY CONDUCTORS AND CONDUITS.
3. NEW OWNER PROVIDED 300KVA SERVICE TRANSFORMER TO SERVE NEW SWITCHBOARD "MSB" IN WEST HALL. CONTRACTOR SHALL COORDINATE WITH OWNER EXACT LOCATION AND WORK REQUIRED.
4. NEW 3ø, NEMA 3R, FUSED SERVICE DISCONNECT. PENETRATE CONDUIT AT A HEIGHT ABOVE THE FIRST FLOOR CEILING GRID IN NEAREST ACCESSIBLE LOCATION TO ALLOW CONDUIT TO BE CONCEALED IN CEILING SPACE THROUGHOUT.
5. NEW SERVICE METER SHALL BE E-MON D-MON, 3P, 4W, WYE, 120/208V. CONTRACTOR SHALL PROVIDE CT'S FULLY RATED OF TRANSFORMER LOAD AND SHALL BE INSTALLED INSIDE SERVICE DISCONNECT.



N

1 / E1.0 ELECTRICAL SITE PLAN - REVISED

0 4' 8' 16'

SCALE: 1"=20'-0"

REV.	DATE	BY	DESCRIPTION

DESIGNED ES
DRAWN CAD
CHECKED JG
DATE 04/30/21

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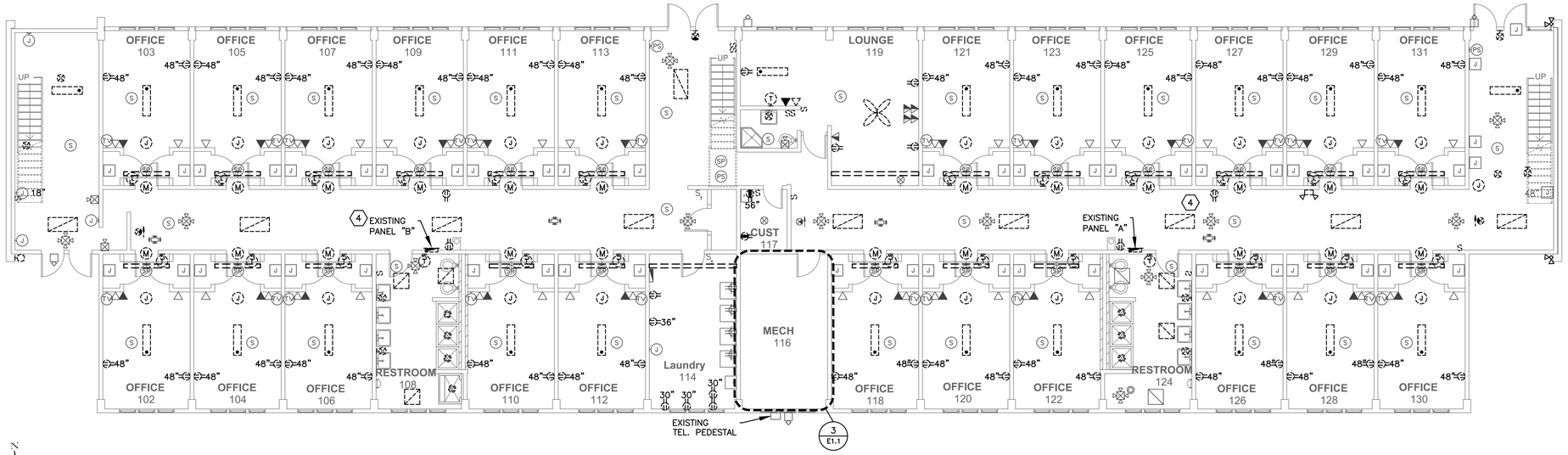
ELECTRICAL SITE PLAN - REVISED

NEW MEXICO TECH WEST HALL

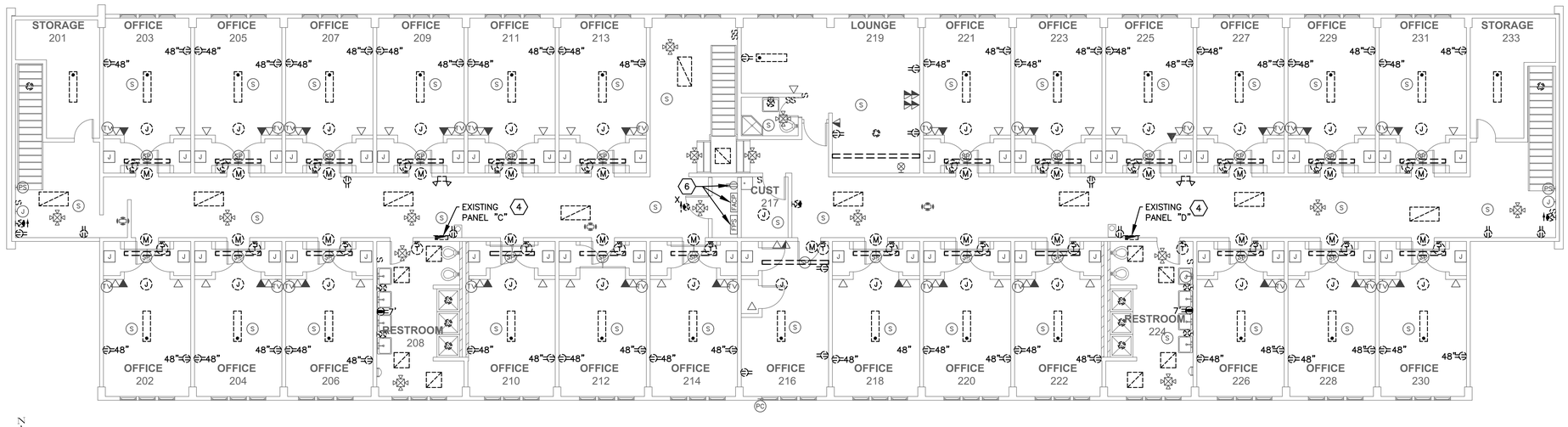
JOB NO. 3619
DRAWING NO. E1.0



1 E2.1 FIRST FLOOR ELECTRICAL PLAN - DEMOLITION

0 4' 8' 16'

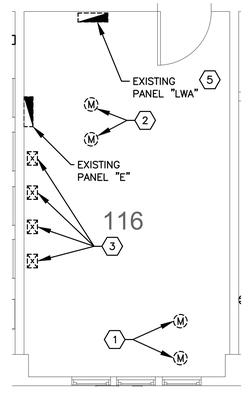
SCALE: 1/8"=1'-0"



2 E2.1 SECOND FLOOR ELECTRICAL PLAN - DEMOLITION

0 4' 8' 16'

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



3 E2.1 ENLARGED ELECTRICAL PLAN - DEMOLITION

0 2' 4' 8'

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

GENERAL NOTES

1. REFER TO ELECTRICAL SYMBOL LEGEND AND ELECTRICAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. ALL LIGHT FIXTURES, RECEPTACLES, SWITCHES, AND MECHANICAL EQUIPMENT CONTROL DEVICES TO BE DEMOLISHED. PROVIDE BLANK PLATE AND REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE.
3. DEVICES IN CEILING SPACE TO REMAIN SHALL BE REMOVED AND REINSTALLED IN CEILING TO BE REPLACED. CONTRACTOR TO VERIFY DEVICES ARE IN WORKING CONDITION PRIOR TO REMOVING AND REINSTALLING. CONTRACTOR SHALL PROVIDE COMPATIBLE REPLACEMENT DEVICES AT NO ADDITIONAL COST TO THE OWNER.

KEYED NOTES

1. EXISTING HEAT EXCHANGE PUMPS TO BE REMOVED. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
2. EXISTING HEATING WATER CIRCULATION PUMP TO BE REMOVED. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
3. EXISTING PANEL "E" AND COMBINATION STARTER TO BE REMOVED AND SALVAGED BACK TO OWNER.
4. EXISTING RECESSED PANEL TO BE REMOVED AND REPLACE WITH NEW PANEL. REFER TO RISER DIAGRAM AND PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
5. EXISTING PANEL TO BE REMOVED AND REPLACE WITH NEW DISTRIBUTION PANEL. REFER TO RISER DIAGRAM AND PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
6. EXISTING NOTIFIER FIRE ALARM PANEL AND ASSOCIATED POWER SUPPLY, TERMINAL CABINET AND RECEPTACLE IN CLOSET TO REMAIN.

REV.	DATE	BY	DESCRIPTION

DESIGNED ES
DRAWN CAD
CHECKED JG
DATE 04/30/21

JAVIER GARCIA NEW MEXICO 14969 REGISTERED PROFESSIONAL ENGINEER 4-30-21

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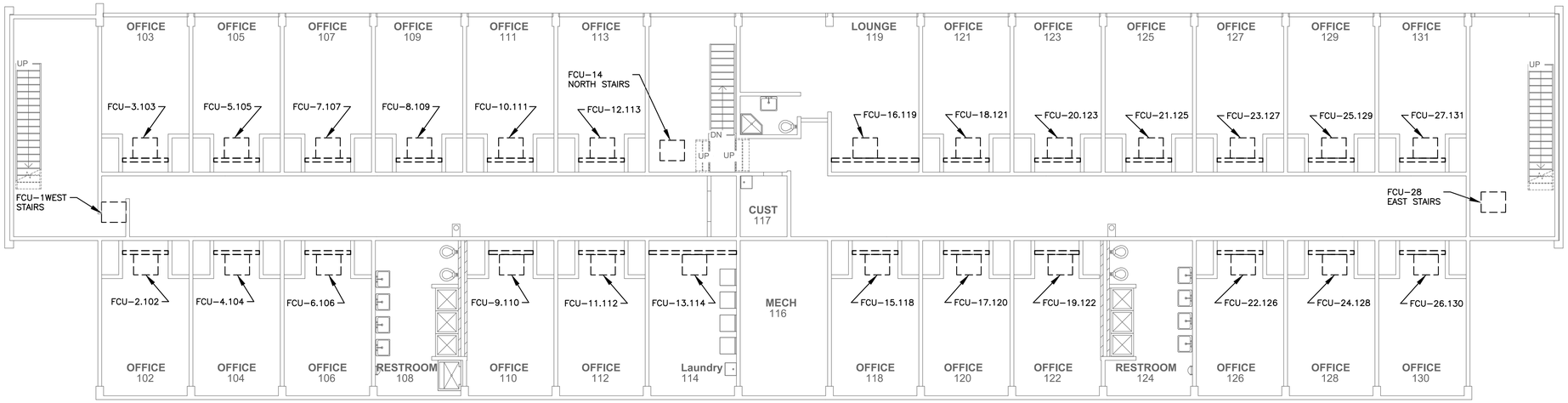
1ST AND 2ND FLOOR
ELECTRICAL PLANS - DEMOLITION

NEW MEXICO TECH WEST HALL

JOB NO. 3619
DRAWING NO. E2.1

GENERAL NOTES

1. CONTRACTOR SHALL REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE FROM MECHANICAL EQUIPMENT BEING DEMOLISHED.

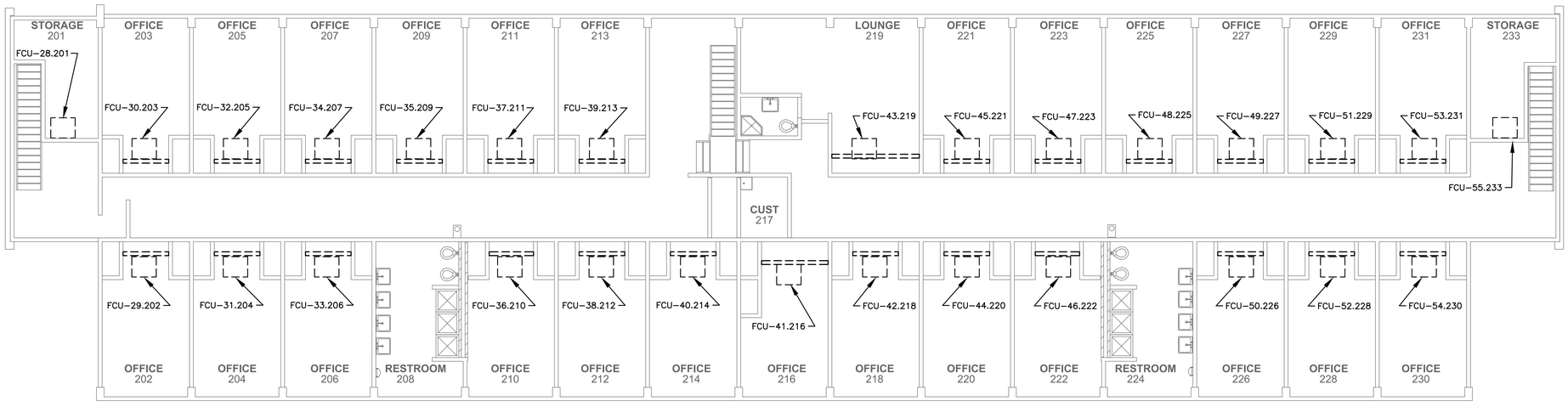


N

1 E2.2 FIRST FLOOR HVAC POWER PLAN - DEMOLITION

0 4' 8' 16'

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



N

2 E2.2 SECOND FLOOR HVAC POWER PLAN - DEMOLITION

0 4' 8' 16'

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

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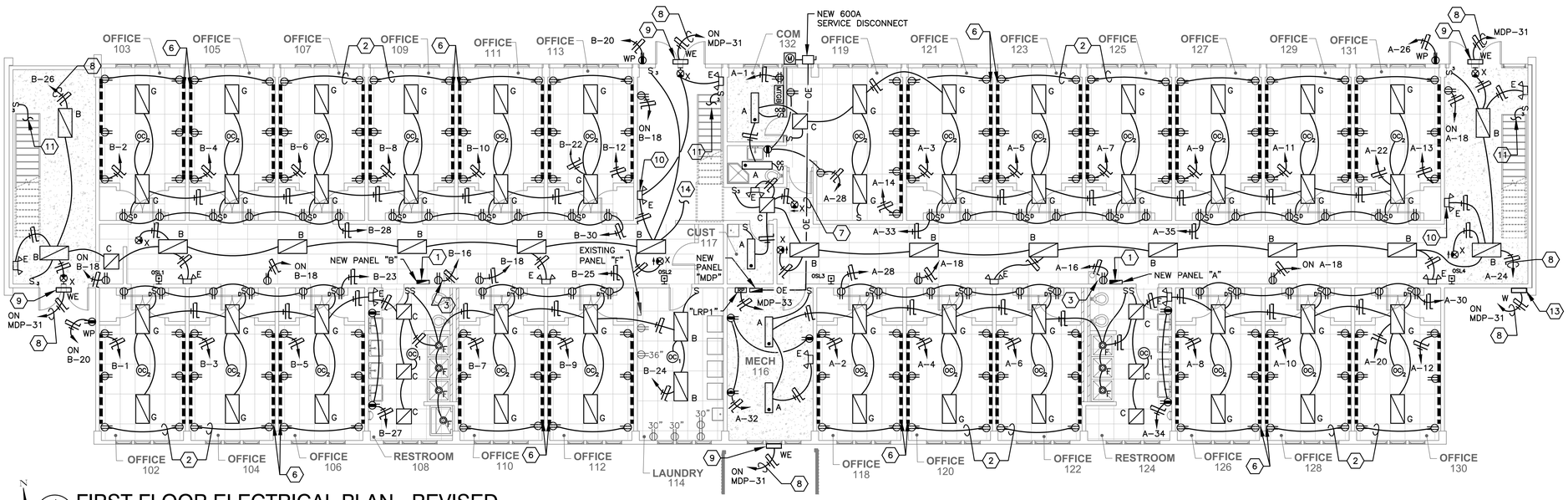
1ST AND 2ND FLOOR HVAC POWER PLANS - DEMOLITION

NEW MEXICO TECH WEST HALL

JOB NO. 3619
DRAWING NO. E2.2



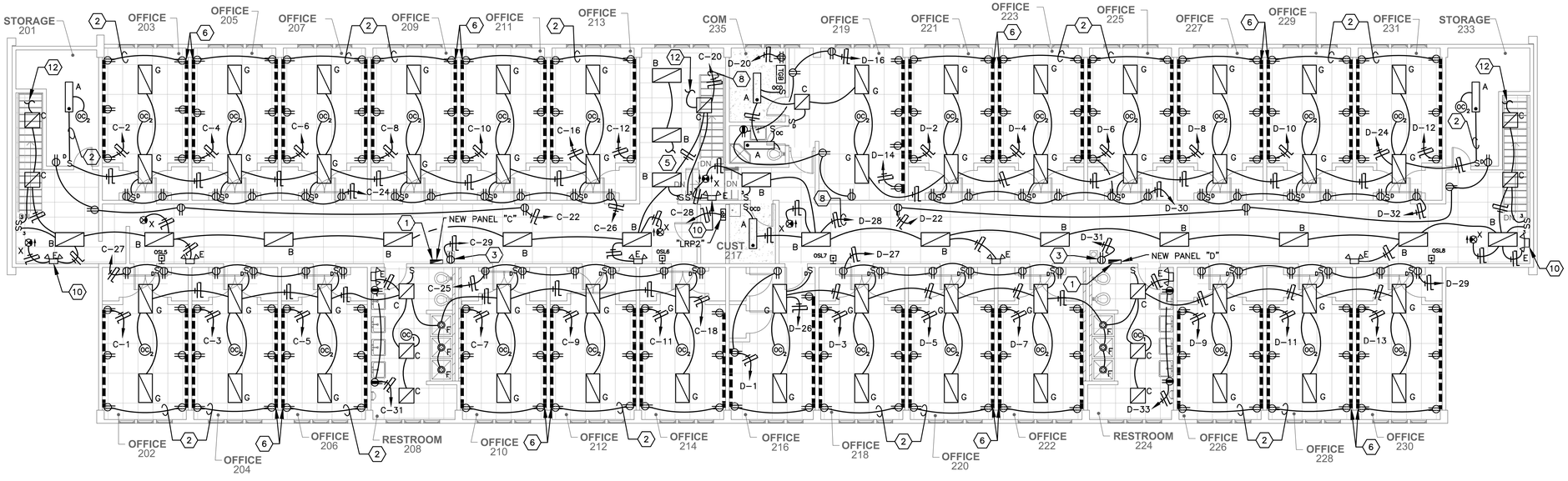
N

1 E3.1

FIRST FLOOR ELECTRICAL PLAN - REVISED

0 4' 8' 16'

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



N

2 E3.1

SECOND FLOOR ELECTRICAL PLAN - REVISED

0 4' 8' 16'

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

GENERAL NOTES

1. REFER TO ELECTRICAL SYMBOL LEGEND AND ELECTRICAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. PROVIDE AFCI TYPE CIRCUIT BREAKERS FOR ALL CIRCUITS SERVING RECEPTACLES UNLESS NOTED OTHERWISE.

KEYED NOTES

1. NEW PANEL BOARD SHALL BE SURFACE MOUNTED IN THE SAME LOCATION AS THE PREVIOUS PANEL BOARD. CONTRACTOR SHALL MODIFY DEMOLISHED PANEL BOARD OPENING AS NECESSARY FOR A FLUSH MOUNTING. EXPOSED CONDUITS SHALL BE PAINTED TO MATCH ADJACENT SURFACE. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. PROVIDE 700 SERIES RACEWAY THROUGHOUT OFFICE SPACE. (TYPICAL)
3. PROVIDE GFCI CIRCUIT BREAKER IN PANEL FOR EWC.
4. NEW DISTRIBUTION PANEL "MDP", 120/208V, 3ø, 4 WIRE. REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
5. EXTEND TO LIGHT FIXTURE ON FIRST FLOOR. REFER TO KEYED NOTE 14 ON THIS SHEET FOR CONTINUATION.
6. PROVIDE 5400 SERIES MULTI COMPARTMENT NONMETALLIC WIREMOLD AT 18" A.F.F. WIREMOLD SHALL RUN THE LENGTH SHOWN WITH NUMBER OF RECEPTACLES SHOWN. SPARE COMPARTMENT FOR OWNER PROVIDED AND INSTALLED DATA DEVICES. CONTRACTOR SHALL PROVIDE SPARE DEVICE BRACKETS WITH BLANK FACEPLATES TO MATCH NUMBER OF RECEPTACLES FOR FUTURE OWNER PROVIDED AND INSTALLED DATA DEVICES. PROVIDE (2) 3/4" CONDUITS UP TO NEAREST ACCESSIBLE CEILING FOR POWER AND COMMUNICATIONS. CONTRACTOR SHALL PROPERLY SUPPORT CONDUITS TO WALL AND PAINT TO MATCH ADJACENT SURFACE. REFER TO TYPICAL WIREMOLD INSTALLATION DETAIL 7 ON SHEET E4.0.(TYPICAL)
7. APPROXIMATE ROUTING OF NEW OVERHEAD LINES. REFER TO ELECTRICAL RISER DIAGRAM FOR SIZE AND NUMBER OF CONDUITS AND WIRES.
8. EXTEND CIRCUIT THRU RESPECTIVE RELAY PANEL IN CUST. 217 OR MECH. 116. REFER TO LIGHTING CONTROL DIAGRAM AND RELAY SCHEDULE FOR ADDITIONAL INFORMATION.
9. MOUNT 12" ABOVE FINISH FLOOR ABOVE DOOR/WINDOW FRAME. FIELD COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
10. MOUNT EMERGENCY LIGHTS "E" 6" BELOW CEILING GRID/CEILING STRUCTURE.(TYPICAL)
11. EXTEND AND CONNECT TO RESPECTIVE CIRCUIT CONNECTED TO SECOND FLOOR LIGHTING.
12. EXTEND AND CONNECT TO RESPECTIVE CIRCUIT CONNECTED TO FIRST FLOOR SWITCH.
13. MOUNT FIXTURE AT PREVIOUS FLOOD LIGHT LOCATION. CONTRACTOR SHALL PROVIDE NEW WIRES BACK TO SOURCE TO AVOID SPLICING.
14. EXTEND TO LIGHT FIXTURE ON SECOND FLOOR. REFER TO KEYED NOTE 5 ON THIS SHEET FOR CONTINUATION.

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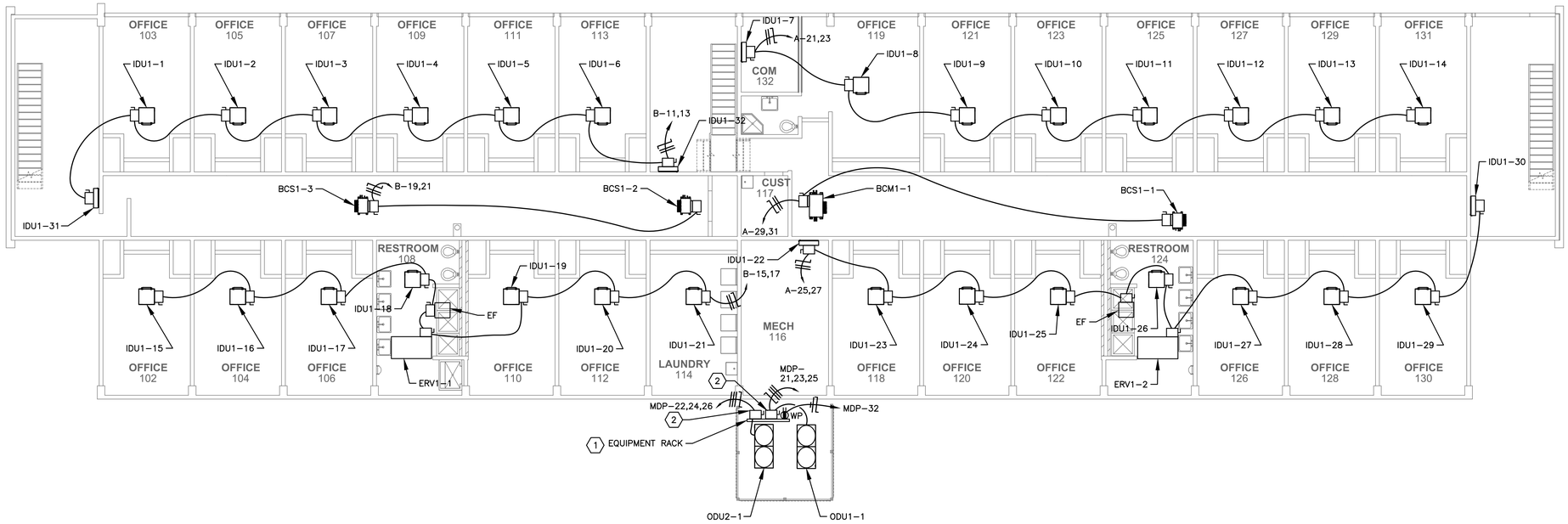
1ST AND 2ND FLOOR
ELECTRICAL PLANS - REVISED

NEW MEXICO TECH WEST HALL

JOB NO. 3619
DRAWING NO. E3.1

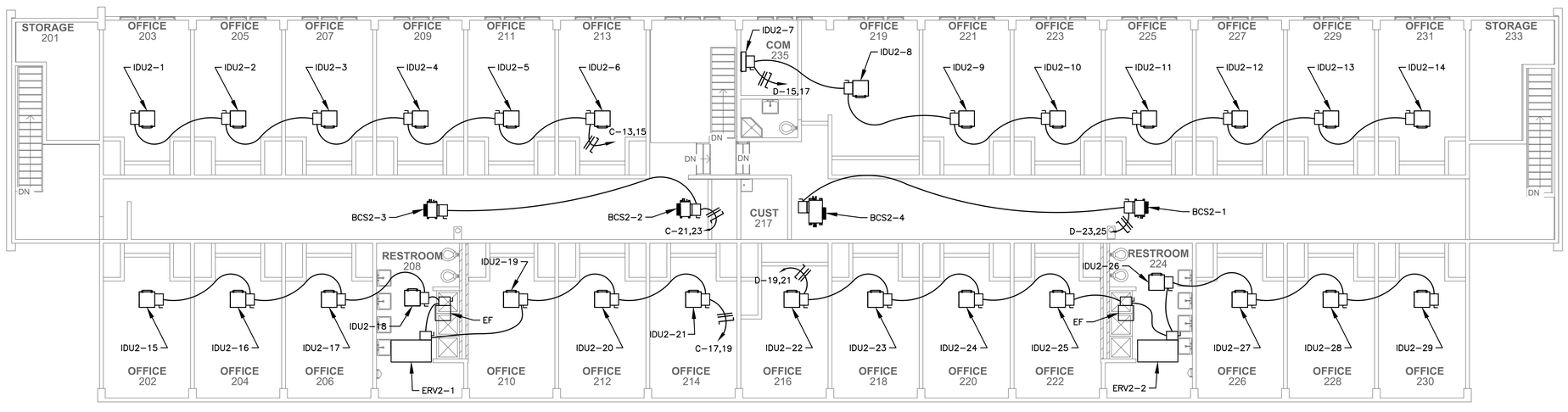


1 FIRST FLOOR HVAC POWER PLAN - REVISED

E3.2

0 4' 8' 16'

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



2 SECOND FLOOR HVAC POWER PLAN - REVISED

E3.2

0 4' 8' 16'

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

GENERAL NOTES

1. REFER TO ELECTRICAL SYMBOL LEGEND AND ELECTRICAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. FIELD COORDINATE WITH MECHANICAL CONTRACTOR ON MECHANICAL EQUIPMENT CONTROLS AND T-STAT ROUGH-IN REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR NEW T-STAT LOCATIONS.

KEYED NOTES

1. PROVIDE EQUIPMENT RACK TO MOUNT ASSOCIATED FUSED DISCONNECTS TO SERVE ODU1-1 AND ODU2-1 AND GFCI RECEPTACLE. REFER TO EQUIPMENT RACK DETAIL ON THIS SHEET E4.0 FOR REQUIREMENTS. FIELD COORDINATE WITH OWNER ON EXACT LOCATION TO PLACE EQUIPMENT RACK PRIOR TO ROUGH-IN.
2. 100A, 3 POLE, NEMA 3R DISCONNECT, MOUNT ON EQUIPMENT RACK. LABEL DISCONNECT TO MATCH ASSOCIATED MECHANICAL EQUIPMENT.

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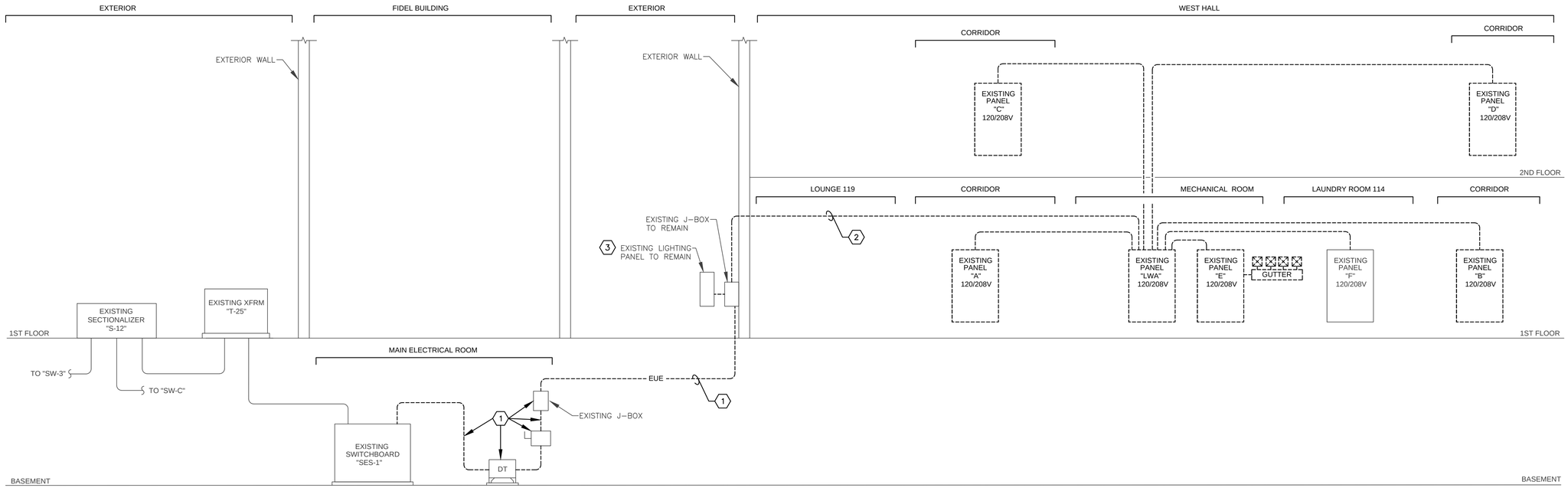
1ST AND 2ND FLOOR HVAC POWER PLANS - REVISED

NEW MEXICO TECH WEST HALL

JOB NO. 3619
DRAWING NO. E3.2

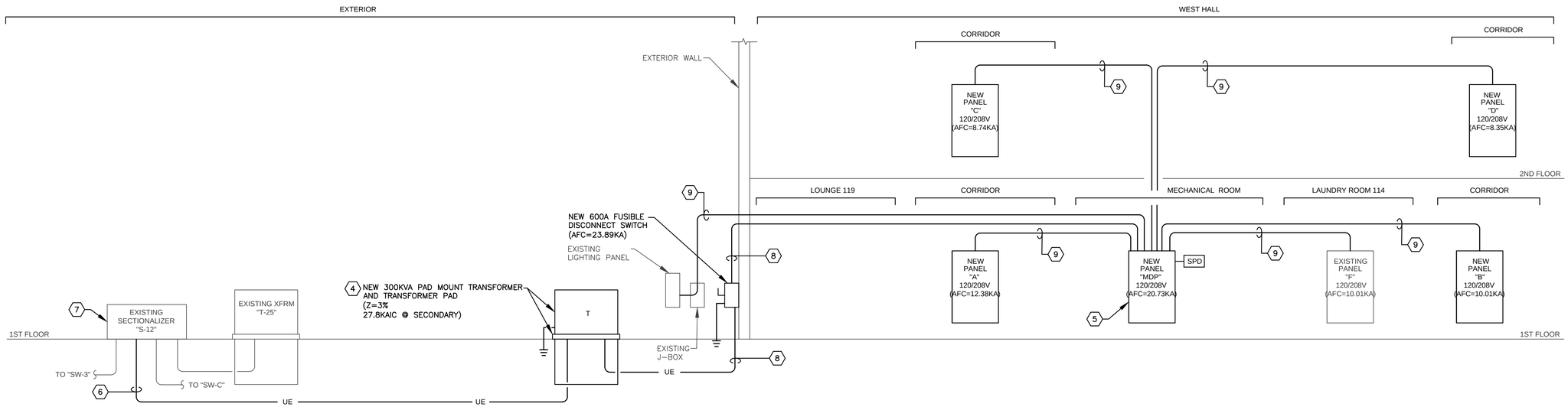


N

1 E4.0

ELECTRICAL RISER DIAGRAM - DEMOLITION

SCALE: NTS



N

2 E4.0

ELECTRICAL RISER DIAGRAM - REVISED

SCALE: NTS

GENERAL NOTES

1. REFER TO ELECTRICAL LEGEND AND ELECTRICAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE SHORT CIRCUIT COORDINATION AND ARCH FLASH STUDY.

KEYED NOTES

1. CONTRACTOR SHALL DISCONNECT AND REMOVE WIRING FROM EXISTING SWITCHBOARD "SES-1" TO EXISTING J-BOX, LOCATED AT THE EXTERIOR OF WEST HALL. ALL EXPOSED CONDUITS AND UNDERGROUND CONDUITS SHALL BE CAPPED AND ABANDONED IN PLACE. EXISTING DISCONNECT SWITCH, DRY TYPE TRANSFORMER AND J-BOX SHALL BE SALVAGED BACK TO OWNER. COORDINATE WITH NEW MEXICO TECH PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL REMOVE FURR-OUT IN LOUNGE 119 AND REMOVE ALL CONDUITS AND WIRING UP TO PANEL "LWA". REFER TO SHEET ED1.01 FOR ADDITIONAL INFORMATION.
3. EXISTING LIGHTING PANEL TO REMAIN. EXISTING LIGHT FIXTURES SERVED BY PANEL HAVE INTEGRAL PHOTOCEL FOR CONTROL. REFER TO REVISED RISER DIAGRAM FOR NEW WORK REQUIRED.
4. ALL WORK ASSOCIATED WITH THE SERVICE ENTRANCE SHALL BE COORDINATED AND VERIFIED WITH NEW MEXICO TECH. AND SHALL MEET ALL THEIR STANDARDS AND REQUIREMENTS.
5. NEW 600AMP, 120/208V, 3ø PANEL. REFER TO PANEL SCHEDULES FOR CONDUCTOR SIZE OF PANELS BEING SERVED FROM NEW DISTRIBUTION PANEL "MDP".
6. PROVIDE 15KV, 200AMP LOAD BREAK ELBOW CONNECTORS WITH INTEGRAL JACKET SEAL, #COOPER POWER SERIES, #LE5215 OR EQUAL. ELBOW TYPE AND SIZE SHALL BE PROVIDED IN COORDINATION WITH POWER CABLE TO ACCEPT CABLE INSULATION SIZE.
7. SECTIONALIZER "S-12" IS SHALL BETTER SCSD-3154-22-22-GA-BIX. CONTRACTOR SHALL PROVIDE 15KV LOADBREAK BUSHING INSERT, #COOPER POWER SERIES #LBI215 OR EQUAL IF LOADBREAK BUSHINGS ARE NOT AVAILABLE.
8. (2) SETS OF 3" CONDUITS EACH WITH (4)#350 KCMIL + #1 GROUND.
9. REFER TO PANEL SCHEDULES ON SHEET E6.0 FOR SIZING AND NUMBER OF CONDUIT AND WIRES.

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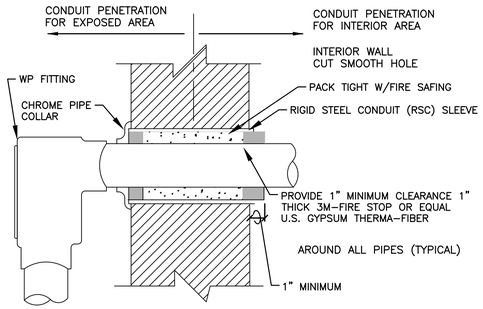
ELECTRICAL RISER DIAGRAMS

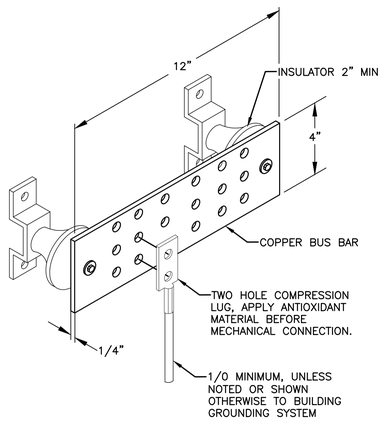
NEW MEXICO TECH WEST HALL

JOB NO. 3619
DRAWING NO. E4.0



ELECTRICAL SERVICE CONDUIT PENETRATION DETAIL

10 / E5.0 N.T.S.



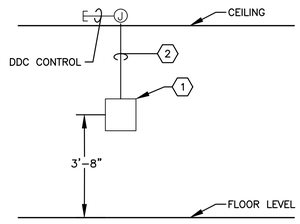
TELECOMMUNICATIONS AND ELECTRICAL GROUNDING BUS BAR

9 / E5.0 N.T.S.

MTGB OR TGB

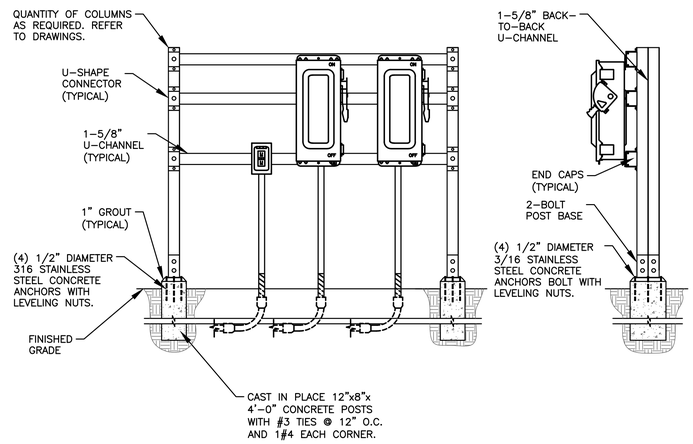
KEYED NOTES (THIS SHEET ONLY)

1. SURFACE MOUNTED 27/8" X 4" 5/8" X 1 3/4" DEEP SINGLE GANG RACEWAY DEVICE BOX. FIELD VERIFY EXACT MOUNTING LOCATION PRIOR TO ROUGH-IN. T'STAT/SENSOR BY CONTROLS CONTRACTOR.
2. 700 SERIUS RACEWAY WITH PULLWIRE FULL LENGTH. CONCEALED IN FINISHED AREAS. SURFACE MOUNTED IN UNFINISHED AREAS. EXTEND AND TERMINATE AT MECHANICAL UNIT. CABLES/CONDUCTORS BY MECHANICAL CONTRACTOR.



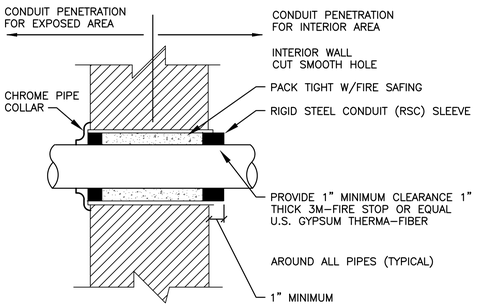
T'STAT/SENSOR ROUGH-IN DETAIL

6 / E5.0 N.T.S.



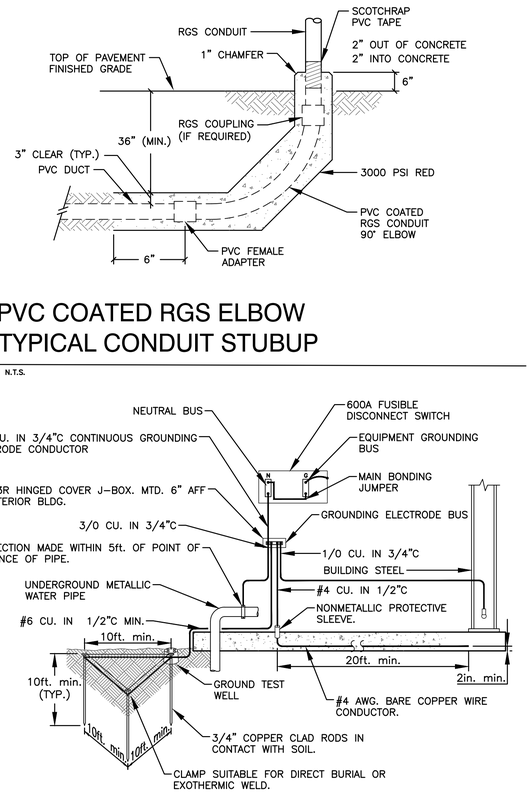
EQUIPMENT RACK DETAIL

3 / E5.0 N.T.S.



TYPICAL CONDUIT PENETRATION DETAIL

5 / E5.0 N.T.S.



PVC COATED RGS ELBOW TYPICAL CONDUIT STUBUP

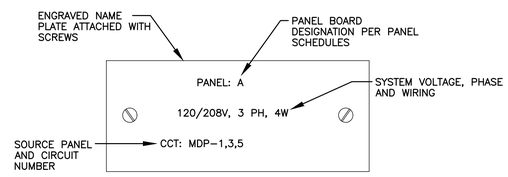
2 / E5.0 N.T.S.

TYPICAL WIREMOLD INSTALLATION DETAIL

7 / E5.0 N.T.S.

WIREMOLD 5400 RACEWAY COMPONENTS

8 / E5.0 N.T.S.



TYPICAL PANELBOARD LABELING DETAIL

4 / E5.0 N.T.S.

SERVICE ENTRANCE GROUNDING DETAIL

1 / E5.0 N.T.S.

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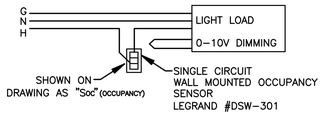
ELECTRICAL DETAILS

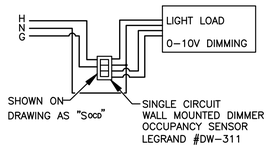
NEW MEXICO TECH WEST HALL

JOB NO. 3619
DRAWING NO. E5.0



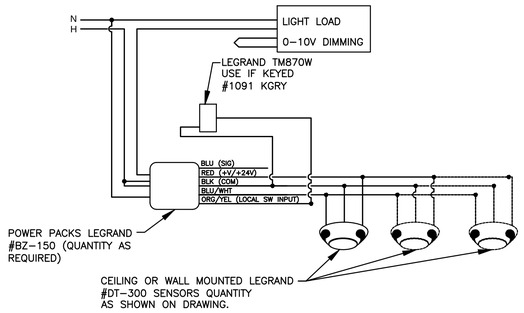
WALL BOX OCCUPANCY SENSOR CONTROL DIAGRAM (NON-DIMMED OCCUPANCY SENSOR)

1 / E5.1 N.T.S.



WALL BOX OCCUPANCY SENSOR CONTROL DIAGRAM (50% DIMMED OCCUPANCY SENSOR)

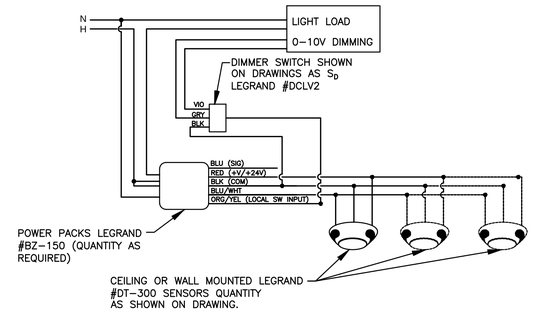
2 / E5.1 N.T.S.



SINGLE POLE SWITCH WITH CEILING MOUNTED OCCUPANCY SENSOR CONTROL DIAGRAM (OCCUPANCY)

3 / E5.1 N.T.S.
NOTE: POWER PACK SHALL BE WIRED FOR OCCUPANCY MODE

SHOWN ON DRAWING AS OC1



DIMMER SWITCH WITH CEILING MOUNTED OCCUPANCY SENSOR CONTROL DIAGRAM (50% DIMMED OCCUPANCY SENSOR)

4 / E5.1 N.T.S.
NOTE: POWER PACK SHALL BE WIRED FOR OCCUPANCY MODE

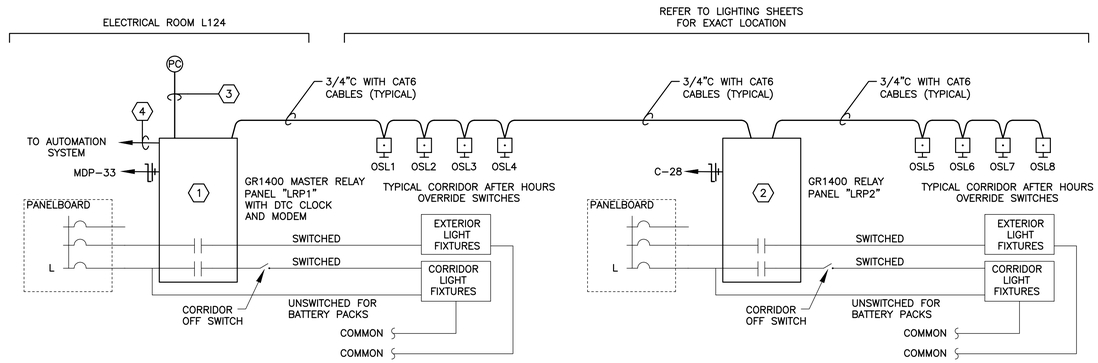
SHOWN ON DRAWING AS OC2

GENERAL NOTES

1. REFER TO ELECTRICAL SYMBOL LEGEND AND ELECTRICAL GENERAL NOTES FOR ADDITIONAL INFORMATION.

KEYED NOTES

1. MASTER LIGHTING CONTROL PANEL SHALL BE BY LIGHTING CONTROL AND DESIGN BLUE BOX # GR1400 WITH DIGITAL TIME CLOCK (DTC 1400) OR APPROVED EQUAL. ALL OVERRIDE SWITCHES, MODULES, AND ACCESSORIES SHALL BE 100% COMPATIBLE WITH THE GR1400 SYSTEM. FURNISH AND INSTALL ALL REQUIRED ACCESSORIES, MODULES, CABLING, PHOTOCELLS, SENSORS, ETC. TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION. REFER TO LIGHTING RELAY CONTROL PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
2. REMOTE LIGHTING CONTROL PANEL SHALL BE BY LIGHTING CONTROL AND DESIGN BLUE BOX # GRI400. OR APPROVED EQUAL. ALL OVERRIDE SWITCHES, MODULES, AND ACCESSORIES SHALL BE BY THE SAME MANUFACTURER AND SHALL BE 100% COMPATIBLE WITH THE #GR1400 SYSTEM. FURNISH AND INSTALL ALL REQUIRED ACCESSORIES, MODULES, CABLING, PHOTOCELLS, SENSORS ETC. TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION.
3. 3/4"C WITH CAT6 TO PHOTO CELL, PENETRATE AND MOUNT ON ROOF FACING NORTH. CUT PATCH AND PROVIDE ALL FLASHING AND ROOFING.
4. 2, 3/4"C'S WITH CABLES TO EMS CONTROL PANEL AND MDF ROOM.



LIGHTING RELAY PANEL CONTROL DIAGRAM

5 / E5.1 N.T.S.

LIGHTING CONTROL RELAY PANEL "LRP1" SCHEDULE

CKT#	RELAY #	AREA SERVED	VOLTAGE	OVERRIDE SWITCHES			
				OSL1	OSL2	OSL3	OSL4
A-24	1	CORRIDOR LIGHTS	120			X	X
B-26	2	CORRIDOR LIGHTS	120	X	X		
MDP-31	3	EXTERIOR LIGHTS	120	PHOTOCELL ON/TIME CLOCK OFF TIME TO BE PROGRAMMED TO MEET 2018 NEW MEXICO COMMERCIAL ENERGY CONSERVATION CODE			
SPARE	4		120				
SPARE	5		120				
SPARE	6		120				
SPARE	7		120				
SPARE	8		120				

LIGHTING CONTROL RELAY PANEL "LRP2" SCHEDULE

CKT#	RELAY #	AREA SERVED	VOLTAGE	OVERRIDE SWITCHES			
				OSL5	OSL6	OSL7	OSL8
C-20	1	CORRIDOR LIGHTS	120	X	X		
D-28	2	CORRIDOR LIGHTS	120			X	X
SPARE	3		120				
SPARE	4		120				
SPARE	5		120				
SPARE	6		120				
SPARE	7		120				
SPARE	8		120				

REV.	DATE	BY	DESCRIPTION

DESIGNED ES
DRAWN CAD
CHECKED JG
DATE 04/30/21

JAVIER GARCIA NEW MEXICO 14969 REGISTERED PROFESSIONAL ENGINEER 04-30-21

THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JAVIER GARCIA, P.E. #14969 ON APRIL 30, 2021. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE NEW MEXICO ENGINEERING PRACTICE ACT.

Bath ENGINEERING
TEXAS FIRM REGISTRATION NO. 829
4110 RIO BRAVO SUITE 102
EL PASO, TX 79902
TEL: 915-313-7200

ELECTRICAL DETAILS

NEW MEXICO TECH WEST HALL

JOB NO. 3619
DRAWING NO. E5.1

PANEL MDP

DESCRIPTION	BRANCH CIRCUIT SETS	BRANCH CIRCUIT WIRE AND CONDUIT	BREAKER AMPS	BREAKER POLES	LIGHT	RECP	MOTOR	HVAC	KITCH	WELD	OTHER	CKT	A	B	C	CKT	OTHER	WELD	KITCH	HVAC	MOTOR	RECP	LIGHT	BREAKER POLES	BREAKER AMPS	BRANCH CIRCUIT SETS	BRANCH CIRCUIT WIRE AND CONDUIT	DESCRIPTION
PANEL "A"	1	4# 2/0 1# 6G, 2"C	150	3	559	6783	0	1278	0	0	1067	1	*			2	0	0	0	1095	72	6293	463	3	150	1	4# 2/0 1# 6G, 2"C	PANEL "C"
					559	6783	0	1278	0	0	1067	3		*		4	0	0	0	1095	72	6293	463					
					559	6783	0	1278	0	0	1067	5			*	6	0	0	0	1095	72	6293	463					
PANEL "B"	1	4# 2/0 1# 6G, 2"C	150	3	465	5883	90	1123	0	0	0	7	*			8	0	0	0	1179	54	7137	536	3	150	1	4# 2/0 1# 6G, 2"C	PANEL "D"
					465	5883	90	1123	0	0	0	9		*		10	0	0	0	1179	54	7137	536					
					465	5883	90	1123	0	0	0	11			*	12	0	0	0	1179	54	7137	536					
EXISTING CIRCUIT	1		20	1							1000	13	*			14	0	0	0	0	0	11728	0	1	100	1	3# 1, 1# 6G, 1-1/2"C	EXISTING PANEL F
EXISTING FA	1		20	1		200						15		*		16	0	0	0	0	0	11728	0					
EXISTING FA	1		20	1		200						17			*	18							2300	1	30	1		LIGHT POLES
EXISTING FHM	1		20	1							200	19	*			20							2300					
ODU1-1	1	3# 1, 1# 6G, 1-1/2"C	100	3				7325				21		*		22				7325				3	100	1	3# 1, 1# 6G, 1-1/2"C	ODU2-1
								7325				23			*	24				7325								
								7325				25	*			26				7325								
EXISTING LIGHTING PANEL	1	3# 1, 1# 6G, 1-1/2"C	100	2							5000	27		*		28						1200		1	20	1	2# 12, 1# 12G, 1/2"C	DWH-1 & DWH-2
											5000	29			*	30					175			1	15	1	2# 12, 1# 12G, 1/2"C	RP-1
EXTERIOR LIGHTS	1	2# 12, 1# 12G, 1/2"C	20	1	160							31	*			32						180		1	20	1	2# 12, 1# 12G, 1/2"C	GFCI RECEPTACLE
RELAY PANEL LRP1	1	2# 12, 1# 12G, 1/2"C	20	1		300						33		*		34								1	20			SPARE
SPARE			20	1								35			*	36								1	20			SPARE
SPARE			20	1								37	*			38								1	20			SPARE
SPARE			20	1								39		*		40								1	20			SPARE
SPARE			20	1								41			*	42								1	20			SPARE
SUBTOTAL (VA)					3233	38700	270	29181	0	0	14400						0	0	0	28799	553	65126	7596					SUBTOTAL (VA)

***PROVIDE LOCKOUT DEVICE

DESCRIPTION		LN	LL	P	W
MDP	VOLTS/PHASE/WIRE	120	208	3	4
	MOUNTING	SURFACE			
	CAPACITY	600	AMP		
	MAIN	600	MCB		
	ENCLOSURE	NEMA 1			
	AIC	35 KAIC			

LOAD	CONNECTED kVA	CONNECTED AMPS	DESIGN FACTOR	DESIGN kVA	DESIGN AMPS
LIGTHING	10.8	30.1	1.25	13.5	37.6
RECEPT	103.8	288.2	NEC	56.9	158.0
MOTOR	0.8	2.3	NEC	0.9	2.5
H.V.A.C.	58.0	160.9	1.00	58.0	160.9
KITCHEN	0.0	0.0	0.65	0.0	0.0
WELDER	0.0	0.0	1.00	0.0	0.0
OTHER	14.4	40.0	1.00	14.4	40.0
TOTAL	187.9	521.5		143.7	398.9

PHASE A	64297
PHASE B	67157
PHASE C	56404

NAME PLATE
MDP — 120 / 208V, 3 Ø ,4W
SERVICE RATED PANEL FED FROM 600A FUSIBLE DISCONNECT SWITCH
DISTRIBUTION PANEL

4/30/2021 4:06 PM

PANEL A

DESCRIPTION	BRANCH CIRCUIT SETS	BRANCH CIRCUIT WIRE AND CONDUIT	BREAKER AMPS	BREAKER POLES	LIGHT	RECP	MOTOR	HVAC	KITCH	WELD	OTHER	CKT	A	B	C	CKT	OTHER	WELD	KITCH	HVAC	MOTOR	RECP	LIGHT	BREAKER POLES	BREAKER AMPS	BRANCH CIRCUIT SETS	BRANCH CIRCUIT WIRE AND CONDUIT	DESCRIPTION
COM 182 RECEPT.	1	2# 12, 1# 12G, 1/2"C	20	1		360						1	*			2						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 118 RECEPTS.
OFFICE 121 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						3		*		4						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 120 RECEPTS.
OFFICE 123 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						5			*	6						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 122 RECEPTS.
OFFICE 125 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						7	*			8						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 126 RECEPTS.
OFFICE 127 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						9		*		10						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 128 RECEPTS.
OFFICE 129 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						11			*	12						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 130 RECEPTS.
OFFICE 131 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						13	*			14						720		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 119 RECEPTS.
CP1-3,4,5,6	1	2# 12, 1# 12G, 1/2"C	20	1				216				15		*		16						370		1	20	1	2# 12, 1# 12G, 1/2"C	EWC **
EXISTING CIRCUIT LIGHTING PANEL	1		30	1							1600	17			*	18						540		1	20	1	2# 12, 1# 12G, 1/2"C	CORRIDOR RECEPTS.
											1600	19	*			20							627	1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE LIGHTS
IDU1-8,9,10, 11,12,13,14	1	2# 12, 1# 12G, 1/2"C	15	2				333				21		*		22							600	1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE LIGHTS
								333				23			*	24							450	1	20	1	2# 12, 1# 12G, 1/2"C	CORRIDOR LIGHTS
IDU1-22,23,24,25,26, 27,28,29,30, ERV1-2, EF	1	2# 12, 1# 12G, 1/2"C	15	2				1269				25	*			26						180		1	20	1	2# 12, 1# 12G, 1/2"C	EXTERIOR RECEPT.
								1269				27		*		28						1080		1	20	1	2# 12, 1# 12G, 1/2"C	3, 105 & 107 RECEPTS.
BCM1-1 & BCS1-1	1	2# 12, 1# 12G, 1/2"C	15	2				208				29			*	30						1080		1	20	1	2# 12, 1# 12G, 1/2"C	9, 111 & 113 RECEPTS.
								208				31	*			32						540		1	20	1	2# 12, 1# 12G, 1/2"C	MECH 116 RECEPTS.
202, 204 & 206 RECEPTS	1	2# 12, 1# 12G, 1/2"C	20	1		1080						33		*		34						360		1	20	1	2# 12, 1# 12G, 1/2"C	RR 124 RECEPTS.
210, 212 & 214 RECEPTS	1	2# 12, 1# 12G, 1/2"C	20	1		1080						35			*	36								1	20			SPARE
SPARE			20	1								37	*			38								1	20			SPARE
SPARE			20	1								39		*		40								1	20			SPARE
SPARE			20	1								41			*	42								1	20			SPARE
SUBTOTAL (VA)					0	9000	0	3835	0	0	3200						0	0	0	0	0	11350	1677					SUBTOTAL (VA)

***PROVIDE LOCKOUT DEVICE
PROVIDE AFCI CIRCUIT BREAKERS FOR ALL RECEPTACLE CIRCUITS
** PROVIDE GFCI CIRCUIT BREAKER

DESCRIPTION		LN	LL	P	W
A	VOLTS/PHASE/WIRE	120	208	3	4
	MOUNTING	RECESSED			
	CAPACITY	225	AMP		
	MAIN	150	MCB		
	ENCLOSURE	NEMA 1			
	AIC	22 KAIC			

LOAD	CONNECTED kVA	CONNECTED AMPS	DESIGN FACTOR	DESIGN kVA	DESIGN AMPS
LIGTHING	1.7	4.7	1.25	2.1	5.8
RECEPT	20.4	56.5	NEC	15.2	42.1
MOTOR	0.0	0.0	NEC	0.0	0.0
H.V.A.C.	3.8	10.6	1.00	3.8	10.6
KITCHEN	0.0	0.0	1.00	0.0	0.0
WELDER	0.0	0.0	1.00	0.0	0.0
OTHER	3.2	8.9	1.00	3.2	8.9
TOTAL	29.1	80.7		24.3	67.5

PHASE A	9823.8
PHASE B	9627.6
PHASE C	9610.8

NAME PLATE
A — 120 / 208V, 3 Ø ,4W
FED FROM MDP
LIGHTING, POWER, EQUIPMENT PANEL

4/30/2021 4:06 PM

LIGHT FIXTURE SCHEDULE

1. FIELD VERIFY CEILING SYSTEM AND PROVIDE ALL ACCESSORIESAND KITS FOR A SEAMLESS INSTALLATION
2. STANDARD LENGTHS FIXTURES SHALL BE USED TO MATCH EXISTING TO BE REPLACED. PROVIDE SHOP DRAWINGS PRIOR TO ORDERING FOR COORDINATION AND APPROVAL BY ARCHITECT/OWNER.
3. ALL FIXTURES SHALL BE PROVIDED WITH DISCONNECTING MEANS PER NEC-410.
4. PROVIDE DRY WALL MOUNTING FLANGE (DF) WHEN INSTALLED IN GYP CEILING
5. PROVIDE ALL BRACKETS, ACCESSORIES, HUBS, AND HARDWARE REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
6. VERIFY COLOR FOR ALL FIXTURES WITH ARCHITECT/OWNER BEFORE ORDERING.
7. FIELD ADJUST LUMEN OUTPUT TO OPTAIN AN AVERAGE OF 20 FOOT CANDLE LEVEL IN CORRIDOR.

TYPE	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	MOUNTING	LAMPS VOLTS	LAMPS NO.	LAMPS TYPE	REMARKS
A	4' LED WRAPAROUND	LITHONIA:STL4-60L-MVOLT-GZ10-LP840	SURFACE	MVOLT	-	60W LED	10"X4' LED VOLUMETRIC WRAPAROUND WITH 6000 LUMEN OUTPUT.
B	2X4 LED PANEL WITH MULTI-LUMEN OPTION	LITHONIA:CPANL-2X4-40/50/60LM-40K-M2	RECESSED	MVOLT	-	60W LED	2'X4' LED PANEL WITH MULTI LUMEN OUTPUT. LUMEN OUTPUT SET TO 50LM.
C	2X2 LED PANEL WITH MULTI-LUMEN OPTION	LITHONIA:CPANL-2X2-24/33/44LM-40K-M4	RECESSED	MVOLT	-	40W LED	2'X1' LED PANEL WITH MULTI LUMEN OUTPUT. LUMENT OUTPUT SET TO 33LM.
E	LED EMERGENCY LIGHT	NAVILITE:N1LWH	SURFACE	MVOLT	-	2W LED	THERMOPLASTIC LED EMERGENCY LIGHT WITH 90 MINUTE BATTERY PACK
F	4" RECESSED LED CAN LIGHT	LITHONIA:EVO4SH-40/10-DFF-SOL-MVOLT	RECESSED	MVOLT	-	9W LED	4" RECESSED CAN LIGHT WITH
G	2X4 LED PANEL WITH MULTI-LUMEN OPTION	LITHONIA:CPANL-2X4-40/50/60LM-40K-M2	RECESSED	MVOLT	-	60W LED	2'X4' LED PANEL WITH MULTI LUMEN OUTPUT. LUMEN OLUTPUT SET TO 60LM.
W	WALL MOUNT LED SCONCE	LITHONIA:WSTLED-P1-40K-VW-MVOLT	SURFACE	MVOLT	-	11W LED	WALL MOUNT LED SCONCE WITH 1500 LUMEN OUTPUT
WE	WALL MOUNT LED SCONCE	LITHONIA:WSTLED-P1-40K-VW-MVOLT-E7WC	SURFACE	MVOLT	-	11W LED	SAME AS TYPE "W" EXCEPT WITH EMERGENCY BATTERY PACK
X	EXIT SIGN	LITHONIA:LQM-S-W-3R-120/277-EL-N-M6	WALL/CEILING	MVOLT	-	1W LED	LED EMERGENCY EXIT SIGN

PANEL B

DESCRIPTION	BRANCH CIRCUIT SETS	BRANCH CIRCUIT WIRE AND CONDUIT	BREAKER AMPS	BREAKER POLES	LIGHT	RECP	MOTOR	HVAC	KITCH	WELD	OTHER	CKT	A	B	C	CKT	OTHER	WELD	KITCH	HVAC	MOTOR	RECP	LIGHT	BREAKER POLES	BREAKER AMPS	BRANCH CIRCUIT SETS	BRANCH CIRCUIT WIRE AND CONDUIT	DESCRIPTION
OFFICE 102 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						1	*			2						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 103 RECEPTS.
OFFICE 104 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						3		*		4						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 105 RECEPTS.
OFFICE 106 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						5			*	6						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 107 RECEPTS.
OFFICE 110 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						7	*			8						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 109 RECEPTS.
OFFICE 112 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						9		*		10						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 111 RECEPTS.
IDU1-1,2,3,4,5,6,31	1	2# 12, 1# 12G, 1/2"C	15	2				291				11			*	12						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 113 RECEPTS.
								291				13	*			14					270			1	20	1	2# 12, 1# 12G, 1/2"C	CP1-1,2,7,8,9
IDU1-15,16,17,18,19,20,21, ERV1-1, EF	1	2# 12, 1# 12G, 1/2"C	15	2				1186				15		*		16						370		1	20	1	2# 12, 1# 12G, 1/2"C	EWC **
								1186				17			*	18						720		1	20	1	2# 12, 1# 12G, 1/2"C	CORRIDOR RECEPT
BCS1-2,3	1	2# 12, 1# 12G, 1/2"C	15	2				208				19	*			20						360		1	20	1	2# 12, 1# 12G, 1/2"C	EXTERIOR RECEPT
								208				21		*		22							360	1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE LIGHTS
202, 204 & 206 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						23			*	24							576	1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE LIGHTS
210, 212 & 214 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		720						25	*			26							460	1	20	1	2# 12, 1# 12G, 1/2"C	CORRIDOR LIGHTS
RR 108 RECEPTS	1	2# 12, 1# 12G, 1/2"C	20	1		360						27		*		28						1080		1	20	1	2# 12, 1# 12G, 1/2"C	103, 105 & 107 RECEPTS.
SPARE			20	1								29			*	30						1080		1	20	1	2# 12, 1# 12G, 1/2"C	109, 111 & 113 RECEPTS.
SPARE			20	1								31	*			32								1	20			SPARE
SPARE			20	1								33		*		34								1	20			SPARE
SPARE			20	1								35			*	36								1	20			SPARE
SPACE												37	*			38												SPACE
SPACE												39		*		40												SPACE
SPACE												41			*	42												SPACE
SUBTOTAL (VA)					0	7560	0	3370	0	0	0						0	0	0	0	270	10090	1396					SUBTOTAL (VA)

***PROVIDE LOCKOUT DEVICE
PROVIDE AFCI CIRCUIT BREAKERS FOR ALL RECEPTACLE CIRCUITS
** PROVIDE GFCI CIRCUIT BREAKER

DESCRIPTION		LN	LL	P	W
B	VOLTS/PHASE/WIRE	120	208	3	4
	MOUNTING	RECESSED			
	CAPACITY	225	AMP		
	MAIN	150	MCB		
	ENCLOSURE	NEMA 1			
	AIC	18 KAIC			

LOAD	CONNECTED kVA	CONNECTED AMPS	DESIGN FACTOR	DESIGN kVA	DESIGN AMPS
LIGTHING	1.4	3.9	1.25	1.7	4.8
RECEPT	17.7	49.0	NEC	13.8	38.4
MOTOR	0.3	0.7	NEC	0.3	0.9
H.V.A.C.	3.4	9.4	1.00	3.4	9.4
KITCHEN	0.0	0.0	1.00	0.0	0.0
WELDER	0.0	0.0	1.00	0.0	0.0
OTHER	0.0	0.0	1.00	0.0	0.0
TOTAL	22.7	63.0		19.3	53.5

PHASE A	6629.2
PHASE B	7883.6
PHASE C	8172.8

NAME PLATE
B — 120 / 208V, 3 Ø ,4W
FED FROM MDP
LIGHTING, POWER, EQUIPMENT PANEL

4/30/2021 4:06 PM

PANEL C

DESCRIPTION	BRANCH CIRCUIT SETS	BRANCH CIRCUIT WIRE AND CONDUIT	BREAKER AMPS	BREAKER POLES	LIGHT	RECP	MOTOR	HVAC	KITCH	WELD	OTHER	CKT	A	B	C	CKT	OTHER	WELD	KITCH	HVAC	MOTOR	RECP	LIGHT	BREAKER POLES	BREAKER AMPS	BRANCH CIRCUIT SETS	BRANCH CIRCUIT WIRE AND CONDUIT	DESCRIPTION
OFFICE 202 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						1	*			2						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 203 RECEPTS.
OFFICE 204 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						3		*		4						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 205 RECEPTS.
OFFICE 206 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						5			*	6						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 207 RECEPTS.
OFFICE 210 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						7	*			8						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 209 RECEPTS.
OFFICE 212 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						9		*		10						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 211 RECEPTS.
OFFICE 214 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						11			*	12						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 213 RECEPTS.
IDU2-1,2,3,4,5,6	1	2# 12, 1# 12G, 1/2"C	15	2				250				13	*			14					216			1	20	1	2# 12, 1# 12G, 1/2"C	CP2-1,2,6,7
								250				15		*		16							360	1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE LIGHTS
IDU2-15,16,17,18,19,20,21 ERV2-1, EF	1	2# 12, 1# 12G, 1/2"C	15	2				1186				17			*	18							509	1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE LIGHTS
								1186				19	*			20							520	1	20	1	2# 12, 1# 12G, 1/2"C	CORRIDOR LIGHTS
BCS2-2,3	1	2# 12, 1# 12G, 1/2"C	15	2				208				21		*		22						540		1	20	1	2# 12, 1# 12G, 1/2"C	CORRIDOR RECEPTS.
								208				23			*	24						1080		1	20	1	2# 12, 1# 12G, 1/2"C	203, 205 & 207 RECEPTS.
202, 204 & 206 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						25	*			26						1080		1	20	1	2# 12, 1# 12G, 1/2"C	209, 211 & 213 RECEPTS.
210, 212 & 214 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						27		*		28						350		1	20	1	2# 12, 1# 12G, 1/2"C	RELAY PANEL LRP2
EWC **	1	2# 12, 1# 12G, 1/2"C	20	1		350						29			*	30								1	20			SPARE
RR 208 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		360						31	*			32								1	20			SPARE
SPARE			20	1								33		*		34								1	20			SPARE
SPARE			20	1								35			*	36								1	20			SPARE
SPARE			20	1								37	*			38												SPACE
SPARE			20	1								39		*		40												SPACE
SPARE			20	1								41			*	42												SPACE
SUBTOTAL (VA)					0	9350	0	3286	0	0	0						0	0	0	0	216	9530	1389					SUBTOTAL (VA)

*** PROVIDE LOCKOUT DEVICE
PROVIDE AFCI CIRCUIT BREAKERS FOR ALL RECEPTACLE CIRCUITS
** PROVIDE GFCI CIRCUIT BREAKER

DESCRIPTION		LN	LL	P	W
C	VOLTS/PHASE/WIRE	120	208	3	4
	MOUNTING	RECESSED			
	CAPACITY	225	AMP		
	MAIN	150	MCB		
	ENCLOSURE	NEMA 1			
	AIC	10 KAIC			

LOAD	CONNECTED kVA	CONNECTED AMPS	DESIGN FACTOR	DESIGN kVA	DESIGN AMPS
LIGTHING	1.4	3.9	1.25	1.7	4.8
RECEPT	18.9	52.4	NEC	14.4	40.1
MOTOR	0.2	0.6	NEC	0.3	0.7
H.V.A.C.	3.3	9.1	1.00	3.3	9.1
KITCHEN	0.0	0.0	1.00	0.0	0.0
WELDER	0.0	0.0	1.00	0.0	0.0
OTHER	0.0	0.0	1.00	0.0	0.0
TOTAL	23.8	66.0		19.7	54.8

PHASE A	9011.2
PHASE B	7107.6
PHASE C	7652.6

NAME PLATE
C — 120 / 208V, 3 Ø ,4W
FED FROM MDP
LIGHTING, POWER, EQUIPMENT PANEL

4/30/2021 4:06 PM

PANEL D

DESCRIPTION	BRANCH CIRCUIT SETS	BRANCH CIRCUIT WIRE AND CONDUIT	BREAKER AMPS	BREAKER POLES	LIGHT	RECP	MOTOR	HVAC	KITCH	WELD	OTHER	CKT	A	B	C	CKT	OTHER	WELD	KITCH	HVAC	MOTOR	RECP	LIGHT	BREAKER POLES	BREAKER AMPS	BRANCH CIRCUIT SETS	BRANCH CIRCUIT WIRE AND CONDUIT	DESCRIPTION
OFFICE 216 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						1	*			2						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 221 RECEPTS.
OFFICE 218 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						3		*		4						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 223 RECEPTS.
OFFICE 220 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						5			*	6						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 225 RECEPTS.
OFFICE 222 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						7	*			8						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 227 RECEPTS.
OFFICE 226 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						9		*		10						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 229 RECEPTS.
OFFICE 228 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						11			*	12						1080		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 231 RECEPTS.
OFFICE 230 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		1080						13	*			14						900		1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE 219 RECEPTS.
IDU2-7,8,9,10, 11,12,13,14	1	2# 12, 1# 12G, 1/2"C	15	2				333				15		*		16						540		1	20	1	2# 12, 1# 12G, 1/2"C	RECEPTACLES
								333				17			*	18					162			1	20	1	2# 12, 1# 12G, 1/2"C	CP2-3,4,5
IDU2-22,23,24,25,26, 27,28,29,ERV2-2,EF	1	2# 12, 1# 12G, 1/2"C	15	2				1227				19	*			20						360		1	20	1	2# 12, 1# 12G, 1/2"C	COM 235 RECEPT.
								1227				21		*		22						540		1	20	1	2# 12, 1# 12G, 1/2"C	CORRIDOR RECEPT.
BCM2-1 & BCS2-1	1	2# 12, 1# 12G, 1/2"C	15	2				208				23			*	24							600	1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE LIGHTS
								208				25	*			26							567	1	20	1	2# 12, 1# 12G, 1/2"C	OFFICE LIGHTS
218, 220 & 222 RECEPT	1	2# 12, 1# 12G, 1/2"C	20	1		1080						27		*		28							440	1	20	1	2# 12, 1# 12G, 1/2"C	CORRIDOR LIGHTS
226, 228 & 230 RECEPT	1	2# 12, 1# 12G, 1/2"C	20	1		1080						29			*	30						1080		1	20	1	2# 12, 1# 12G, 1/2"C	203, 205 & 207 RECEPTS.
EWC **	1	2# 12, 1# 12G, 1/2"C	20	1		350						31	*			32						1080		1	20	1	2# 12, 1# 12G, 1/2"C	209, 211 & 213 RECEPTS.
RR 224 RECEPTS.	1	2# 12, 1# 12G, 1/2"C	20	1		360						33		*		34								1	20			SPARE
SPARE			20	1								35			*	36								1	20			SPARE
SPARE			20	1								37	*			38								1	20			SPARE
SPARE			20	1								39		*		40								1	20			SPARE
SPARE			20	1								41			*	42								1	20			SPARE
SUBTOTAL (VA)					0	10430	0	3536	0	0	0						0	0	0	0	162	10980	1607					SUBTOTAL (VA)

***PROVIDE LOCKOUT DEVICE
PROVIDE AFCI CIRCUIT BREAKERS FOR ALL RECEPTACLE CIRCUITS
** PROVIDE GFCI CIRCUIT BREAKER

DESCRIPTION		LN	LL	P	W
D	VOLTS/PHASE/WIRE	120	208	3	4
	MOUNTING	RECESSED			
	CAPACITY	225	AMP		
	MAIN	150	MCB		
	ENCLOSURE	NEMA 1			
	AIC	10 KAIC			

LOAD	CONNECTED kVA	CONNECTED AMPS	DESIGN FACTOR	DESIGN kVA	DESIGN AMPS
LIGTHING	1.6	4.5	1.25	2.0	5.6
RECEPT	21.4	59.4	NEC	15.7	43.6
MOTOR	0.2	0.4	NEC	0.2	0.6
H.V.A.C.	3.5	9.8	1.00	3.5	9.8
KITCHEN	0.0	0.0	1.00	0.0	0.0
WELDER	0.0	0.0	1.00	0.0	0.0
OTHER	0.0	0.0	1.00	0.0	0.0
TOTAL	26.7	74.2		21.5	59.5

PHASE A	10092
PHASE B	8840
PHASE C	7782.8

NAME PLATE
D — 120 / 208V, 3 Ø ,4W
FED FROM MDP
LIGHTING, POWER, EQUIPMENT PANEL

4/30/2021 4:06 PM

REV.	DATE	BY	DESCRIPTION

DESIGNED ES
DRAWN CAD
CHECKED JG
DATE 04/30/21

JAVIER GARCIA — NEW MEXICO — 14969 — REGISTERED PROFESSIONAL ENGINEER — 4-30-21

THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JAVIER GARCIA, P.E. #14969 ON APRIL 30, 2021. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE NEW MEXICO ENGINEERING PRACTICE ACT.

Bath ENGINEERING
TEXAS FIRM REGISTRATION NO. 829
4110 RIO BRAVO SUITE 102
EL PASO, TX 79902
TEL: 915-313-7200

ELECTRICAL SCHEDULES

NEW MEXICO TECH WEST HALL

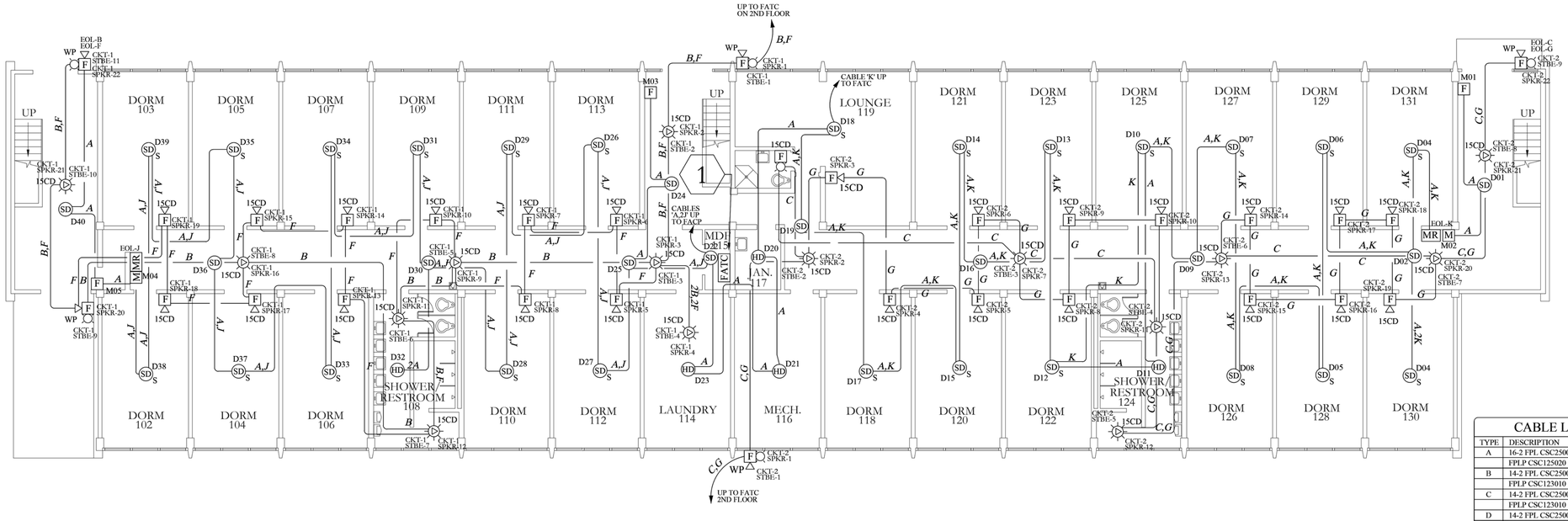
JOB NO. 3619
DRAWING NO. E6.0

KEYED NOTES

1. FIRE ALARM TERMINAL CABINET.

DEVICE LEGEND

- [F] FIRE ALARM PULLSTATION– REQ'S 4SQ. DEEP W/ SINGLE GANG RING. MOUNT UP 48" TO TOP OF PULL. MOUNT WITHIN 5'–0" HORIZONTALLY OF LATCH SIDE OF DOOR PER CODE.
- [R] FIRE ALARM RELAY MODULE– REQ'S 4–11/16" DEEP BOX WITH TWO–GANG RING.
- [M] FIRE ALARM MONITOR MODULE– REQ'S 4–11/16" DEEP BOX WITH TWO–GANG RING.
- (SD) FIRE ALARM SMOKE DETECTOR– REQ'S 4SQ. DEEP WITH 3–0 RING.
- (SD)S FIRE ALARM SMOKE DETECTOR WITH SOUNDER BASE – REQ'S 4SQ. DEEP WITH 3–0 RING.
- (HD) FIRE ALARM HEAT DETECTOR– REQ'S 4SQ. DEEP WITH 3–0 RING.
- (DD) FIRE ALARM DUCT DETECTOR– FURNISHED & CONNECTED BY SOUND & SIGNAL, INSTALLED BY ELECTRICAL IN DUCT WORK.
- [F] WALL MOUNT FIRE ALARM STROBE ONLY– REQ'S 4SQ. DEEP. MOUNT UP 80" TO BOTTOM OF BOX, OR DOWN 6" TO TOP IF LOWER.
- [F] WALL MOUNT FIRE ALARM SPEAKER/STROBE– REQ'S 4SQ. DEEP. MOUNT UP 80" TO BOTTOM OF BOX, OR DOWN 6" TO TOP IF LOWER.
- [F] WALL MOUNT FIRE ALARM SPEAKER– REQ'S 4SQ. DEEP. MOUNT UP 80" TO BOTTOM OF BOX, OR DOWN 6" TO TOP IF LOWER.
- [FACP] FIRE ALARM CONTROL PANEL– REQ'S SPECIAL BACKBOX FURNISHED BY SOUND & SIGNAL. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT. MOUNT UP 66" A.F.F. TO TOP OF BOX. NO CONDUITS SHALL ENTER BOTTOM OF BOX. EXTEND 1" CONDUIT TO FIBER RACK IN MDF.
- [FAVP] FIRE ALARM VOICE PANEL– REQ'S SPECIAL BACKBOX FURNISHED BY SOUND & SIGNAL. ELECTRICAL CONTRACTOR TO PROVIDE 120VAC DEDICATED CIRCUIT. MOUNT UP 66" A.F.F. TO TOP OF BOX. NO CONDUITS SHALL ENTER BOTTOM OF BOX.
- [FATC] 12x12x6 PULLBOX BY ELECTRICAL.
- [MR] R10–E RELAY



WEST HALL FIRST FL. FIRE ALARM PLAN

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

NO MODIFCATIONS WILL BE MADE TO THE FIRE ALARM SYSTEM. WILL NEED TO BRING FIRE ALARMS DOWN TO NEW CEILING GRIDS.

CABLE LEGEND

TYPE	DESCRIPTION
A	16-2 FPL CSC250090 SLC#1
	FPLP CSC125020 OR EQUAL
B	14-2 FPL CSC250017 STROBE#1
	FPLP CSC123010 OR EQUAL
C	14-2 FPL CSC250017 STROBE#2
	FPLP CSC123010 OR EQUAL
D	14-2 FPL CSC250017 STROBE#3
	FPLP CSC123010 OR EQUAL
E	14-2 FPL CSC250017 STROBE#4
	FPLP CSC123010 OR EQUAL
F	18-2 OAS FPL CSC250100 SPEAKER#1
	FPLP CSC1210050 OR EQUAL
G	18-2 OAS FPL CSC250100 SPEAKER#2
	FPLP CSC1210050 OR EQUAL
H	18-2 OAS FPL CSC250100 SPEAKER#3
	FPLP CSC1210050 OR EQUAL
I	18-2 OAS FPL CSC250100 SPEAKER#4
	FPLP CSC1210050 OR EQUAL
J	16-2 FPL CSC250039 SOUNDER BASE#1
	FPLP CSC122005 OR EQUAL
K	16-2 FPL CSC250039 SOUNDER BASE#2
	FPLP CSC122005 OR EQUAL
L	16-2 FPL CSC250039 SOUNDER BASE#3
	FPLP CSC122005 OR EQUAL
M	16-2 FPL CSC250039 SOUNDER BASE#4
	FPLP CSC122005 OR EQUAL

Sound & Signal Systems
of NEW MEXICO, Inc.
3233 STANFORD DR. NE
ALBUQUERQUE, NM 87107
WWW.SOUNDANDSIGNALNM.COM
(505) 884-1217

NMIMT STUDENT RESIDENCE
801 LEROY PLACE
SOCORRO, NM 87801

DESIGNER:	BRYAN BUNDRANT
NICET SUB FIELD:	FIRE ALARM SYSTEMS
NICET LEVEL:	III
CERTIFICATION NUMBER:	117035
CERT. EXPIRATION DATE:	JULY 1, 2012
ADDRESS:SOUND & SIGNAL SYSTEMS 3233 STANFORD DR. NE ALBUQUERQUE, NM 87107	
SIGNATURE	DATE

2	08/24/11	AS-BUILT
1	02/23/11	SHOP DRAWING
	DATE:	DESCRIPTION:

CHECKED BY:	BRYAN BUNDRANT
DRAWN BY:	SCOTT ANDERSON
FILE NAME:	SS-WEST HALL.dwg
SCALE:	1/8"=1'-0"

SHEET TITLE:

WEST HALL 1ST FL. FIRE ALARM

PAGE: 1 OF 2

DEVICE LEGEND

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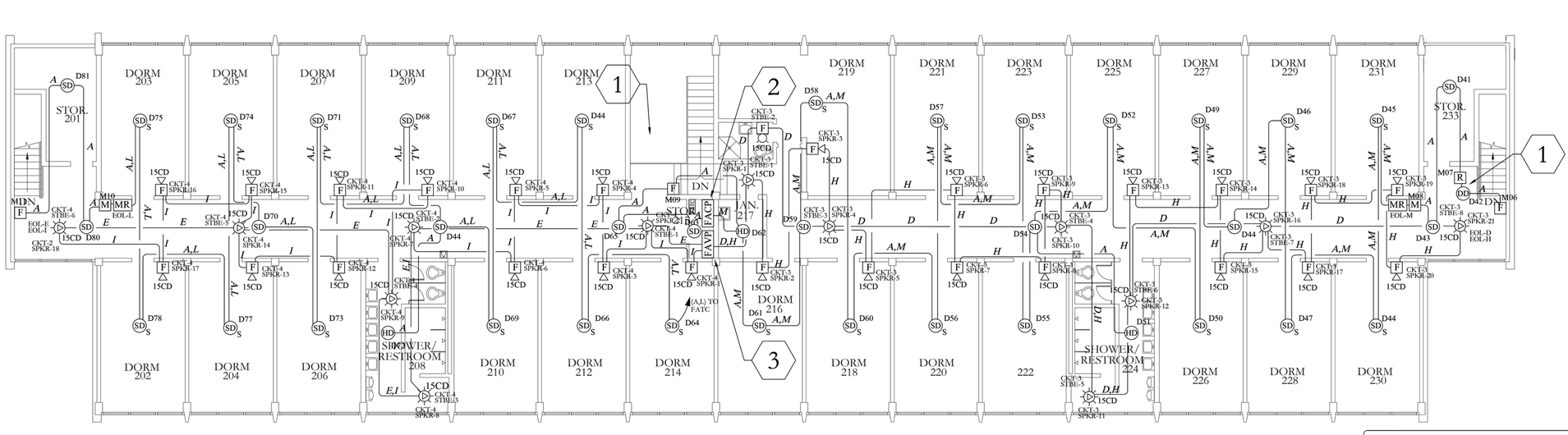
- [FATC] 12x12x6 PULLBOX BY ELECTRICAL.
- [MR] R10–E RELAY

KEYED NOTES

1. DUCT DETECTOR & RELAY MODULE FOR INTERFACE WITH AHU UNIT. FIELD VERIFY LOCATION.
2. FIRE ALARM CONTROL PANEL. SEE DEVICE LEGEND FOR MORE INFORMATION.
3. FIRE ALARM VOICE PANEL. SEE DEVICE LEGEND FOR MORE INFORMATION.



WEST HALL SECOND FL. FIRE ALARM PLAN

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

NO MODIFCATIONS WILL BE MADE TO THE FIRE ALARM SYSTEM. WILL NEED TO BRING FIRE ALARMS DOWN TO NEW CEILING GRIDS.

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SHEET TITLE:

WEST HALL 2ND FL FIRE ALARM