SWITCHGEAR REPLACEMENT

PROCESSING & DISTRIBUTION CENTER
141 WESTON STREET
HARTFORD, CONNECTICUT 06101-9612

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A/E FIRM

MCKINNELL MCKINNELL & TAYLOR INC.
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ROCKLAND, MA 02370
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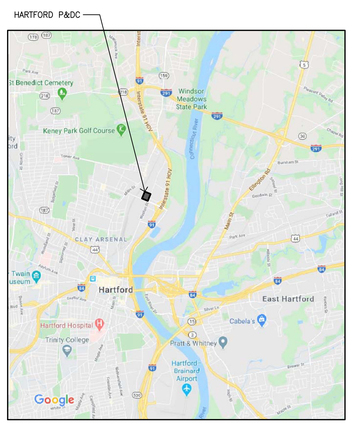
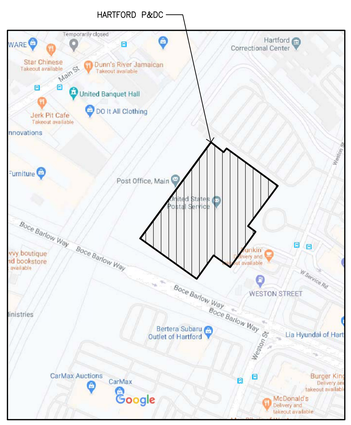
VICINITY MAP



LOCALITY MAP



INDEX OF DRAWINGS

Digitally signed by Robert N. MacLeod

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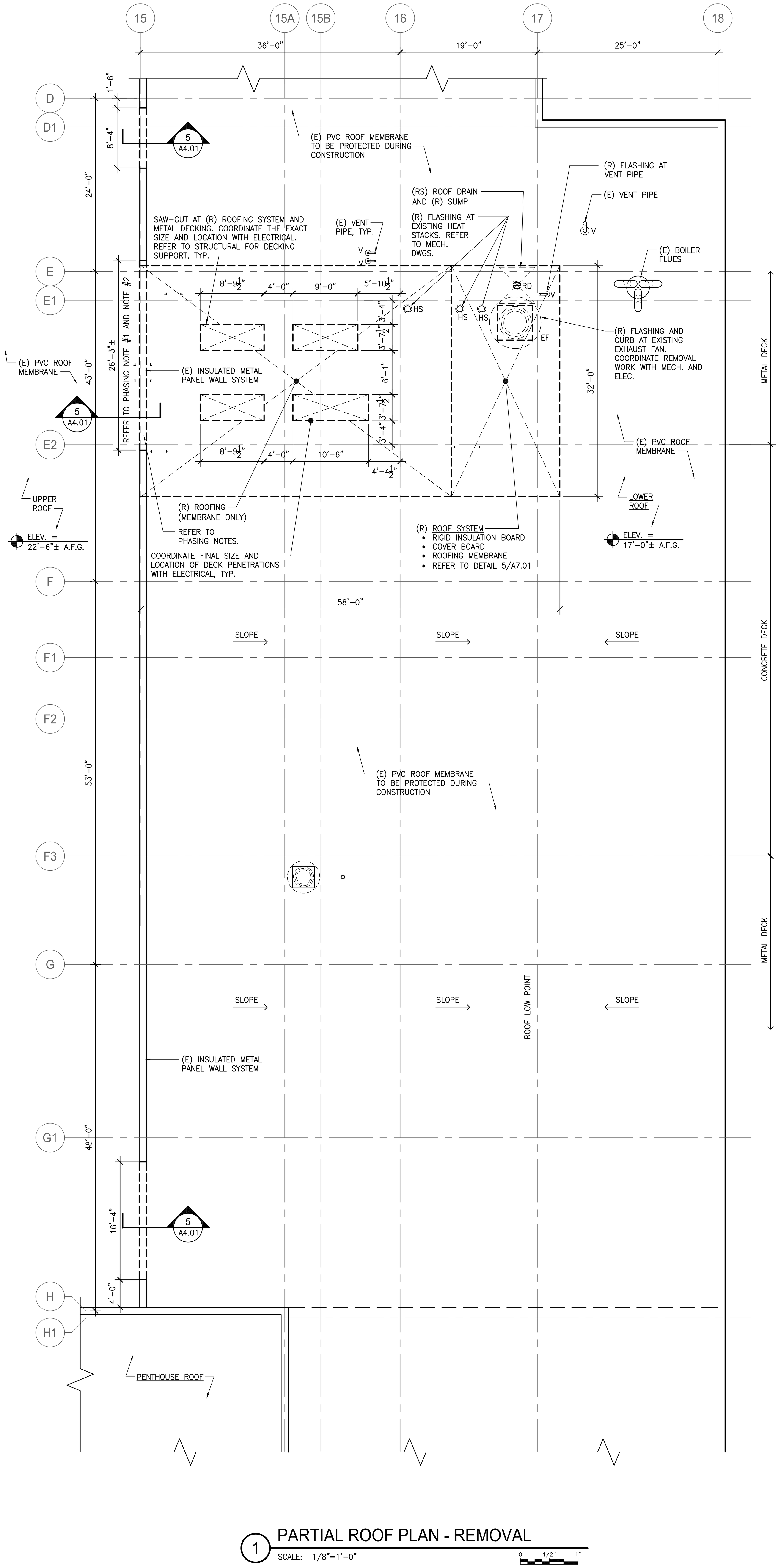
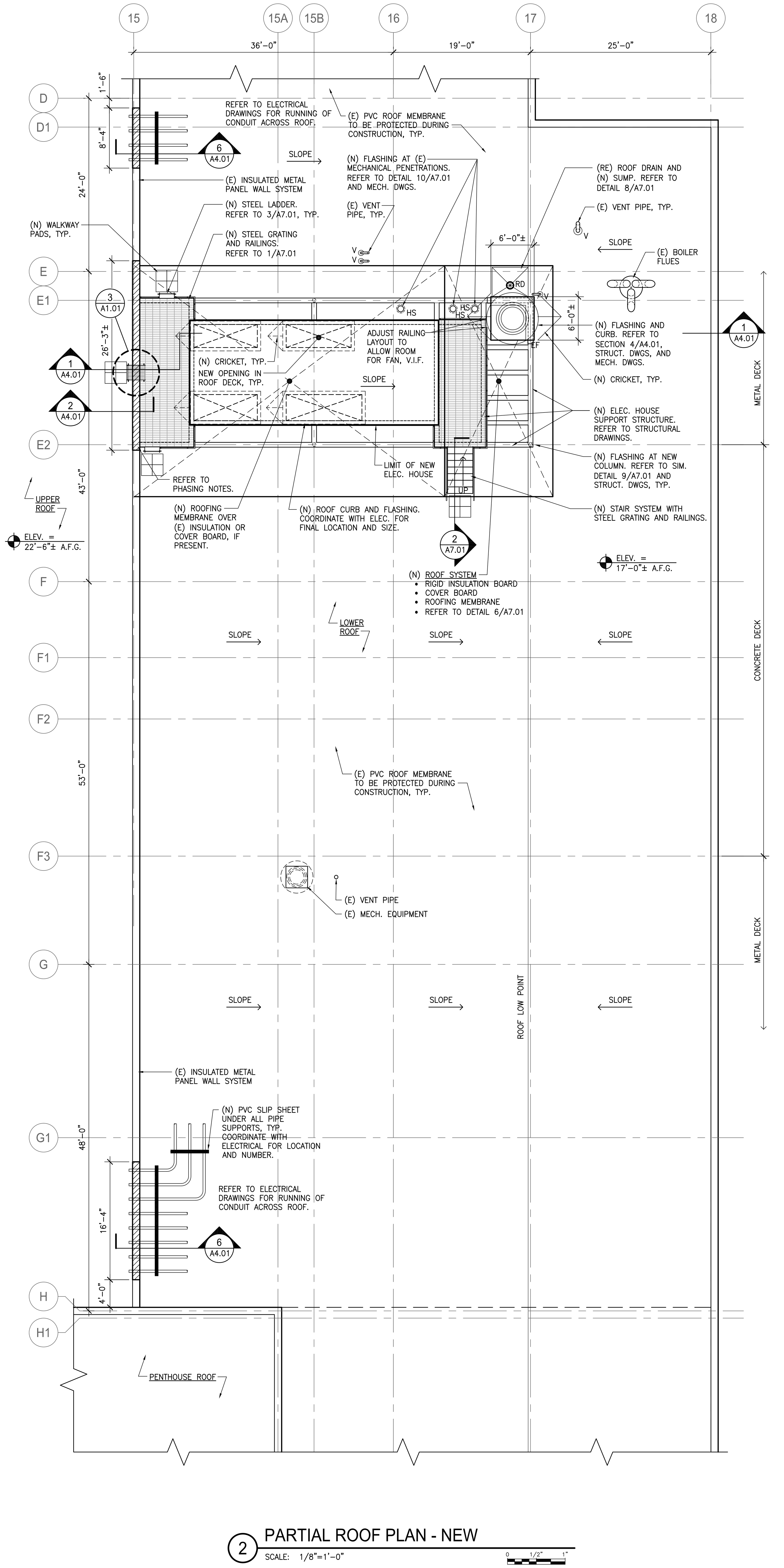
T1.01 TITLE SHEET

REVISIONS: DATE:

SCALE: AS NOTED DATE: 09-15-21
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: 843529



1 PARTIAL ROOF PLAN - REMOVAL
SCALE: 1/8"=1'-0"



2 PARTIAL ROOF PLAN - NEW
SCALE: 1/8"=1'-0"

ABBREVIATIONS

&	AND
@	AT
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX.	APPROXIMATE, APPROXIMATELY
B.F.F.	BELOW FINISH FLOOR
B.O.	BOTTOM OF
BD.	BOARD
BRG.	BEARING
CCTV	CLOSED-CIRCUIT TELEVISION
℄	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
COLS.	COLUMNS
CONC.	CONCRETE
CONT.	CONTINUOUS
C.O.	CONTRACTING OFFICER
D.S.	DOWNSPOUT
DIA.	DIAMETER
DISP.	DISPLAY OR DISPENSER
DTL.	DETAIL
E.W.C.	ELECTRICAL WATER COOLER
ELEC.	ELECTRIC, ELECTRICAL
EQ.	EQUAL
EXP	EXPANSION
EXT.	EXTERIOR
F.E.	FIRE EXTINGUISHER
FF	FACTORY FINISH
FIN.	FINISH(ED)
F.O.	FACE OF
F.T.	FIRE TREATED
GA.	GAUGE
G.C.	GENERAL CONTRACTOR
GYP.	GYPSUM
H	HIGH
HB.	HOSE BIBB
HDW	HARDWARE
HGT.	HEIGHT
HM	HOLLOW METAL
HS	HEAT STACK
HT.	HEIGHT
I.D.	INSIDE DIAMETER
i.e.	THAT IS
INSUL.	INSULATION
INT	INTERIOR
IRT	INTEGRATED RETAIL TERMINAL
JAN.	JANITOR
JT.	JOINT
LB	POUND
MATL.	MATERIAL
MAX.	MAXIMUM
MFGR.	MANUFACTURER
MIN.	MINIMUM
M.O.	MASONRY OPENING
MOD	MODIFIED
MTD	MOUNTED
MTL.	METAL
NO.	NUMBER
N/A	NOT APPLICABLE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPP.	OPPOSITE
P. LAM.	PLASTIC LAMINATE
PART.	PARTITION, PARTIAL
PBSM	POSTAGE BOOKLET STAMP MACHINE
PLYWD.	PLYWOOD
P.O.	POST OFFICE
P.O.S.	POINT OF SALE
PTD	PAINTED
PL	PLATE
RECEP.	RECEPTACLE
REF.	REFER, REFERENCE
REQ'D	REQUIRED
RD	ROOF DRAIN
R.O.	ROUGH OPENING
SQ. FT.	SQUARE FEET
SQ. IN.	SQUARE INCHES
SCW	SOLID CORE WOOD
S.S.	STAINLESS STEEL
SHT.	SHEET
SHTS.	SHEETS
SIM.	SIMILAR
SPECS	SPECIFICATIONS
STL.	STEEL
T&G	TONGUE AND GROOVE
TELE.	TELEPHONE
THICK	THICKNESS
THRESH	THRESHOLD
T.O.	TOP OF
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
USPS	UNITED STATES POSTAL SERVICE
V	VENT
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
W	WIDE
W/	WITH
WD	WOOD
WWF	WELDED WIRE FABRIC

GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE USPS TO MAINTAIN CUSTOMER/EMPLOYEE ACCESS AT ALL TIMES.
2. ALL WORK BEING PERFORMED SHALL NOT IN ANY WAY INTERFERE WITH THE REGULAR OPERATION OF THE USPS FACILITY. SECURITY SHALL BE MAINTAINED AT ALL TIMES.
3. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FACILITY FOR ACCESS TO AND FROM THE FACILITY.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE BEGINNING ANY WORK OR PURCHASING ANY MATERIAL OR EQUIPMENT.
5. THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS BEFORE SUBMITTING THEIR OFFER. NO EXTRA WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THE ABOVE.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER OF ANY EXISTING CONDITION DISCOVERED DURING DEMOLITION THAT WILL INTERFERE WITH THE NEW WORK.
7. GUARDRAILS, TOE BOARDS, LADDER RAILS, AND STAIR NOSINGS SHALL BE PAINTED SAFETY YELLOW.

PHASING NOTES

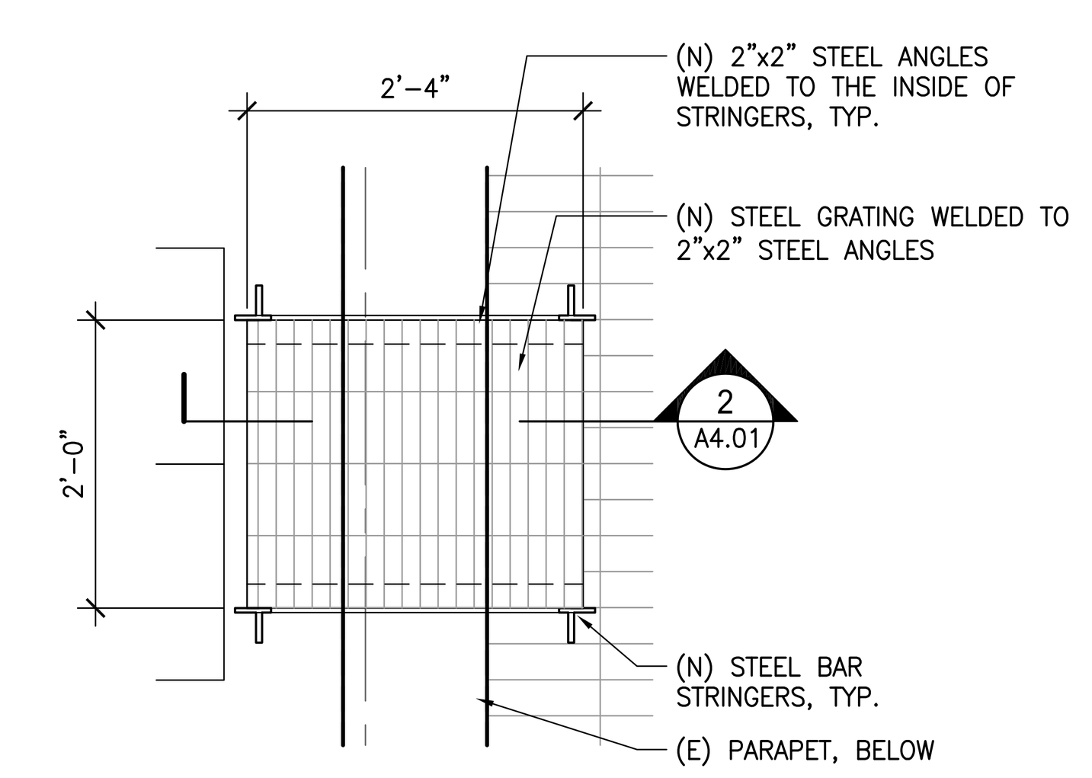
1. CONTRACTOR SHALL OPEN EXISTING METAL PANEL WALL TO VERIFY EXISTING CONDITION PRIOR TO ISSUING STEEL SHOP DRAWINGS. PROVIDE TEMPORARY ENCLOSURE UNTIL FINAL EXTERIOR WALL SYSTEM IS INSTALLED.
2. CONTRACTOR SHALL NOTIFY THE A/E ONE WEEK IN ADVANCE OF OPENING UP THE SIDING SO THAT THE A/E CAN BE PRESENT TO REVIEW THE EXPOSED CONDITIONS.

ROOF NOTES

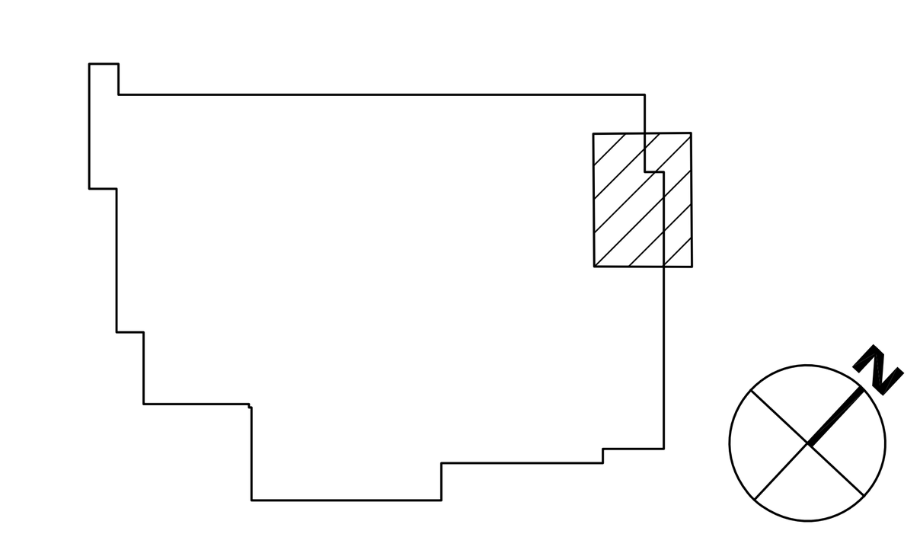
1. THE A/E HAS REPORTED ON AND REPRESENTED EXISTING CONDITIONS TO THE BEST OF THEIR KNOWLEDGE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL MATERIAL AS NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR AND ROOFING MANUFACTURER ARE RESPONSIBLE FOR REVIEWING ALL DETAILING MATERIALS AND METHODS FOR COMPLIANCE WITH THE ROOFING MANUFACTURER'S BEST RECOMMENDATION FOR ACCOMPLISHING THE WORK.
2. PERFORM ALL ROOFING WORK AS REQUIRED TO PROVIDE A WARRANTED SYSTEM. THE EXISTING ROOFING SYSTEM IS A SARNAFIL MEMBRANE ROOFING SYSTEM AND IS STILL UNDER WARRANTY. ALL NEW ROOFING WORK SHALL BE PERFORMED BY A ROOFING CONTRACTOR APPROVED BY THE EXISTING ROOFING MANUFACTURER AND ALL WORK SHALL BE PERFORMED SO AS TO MAINTAIN THE EXISTING ROOFING SYSTEM WARRANTY. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL SUBMIT TO THE A/E A WRITTEN CONFIRMATION FROM THE ROOFING MANUFACTURER THAT THE EXISTING WARRANTY HAS NOT BEEN VOIDED OR ADVERSELY IMPACTED AND THAT THE NEW WORK HAS BEEN INCLUDED IN THE EXISTING WARRANTY.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING AND REMOVAL OF ALL DEBRIS FROM ALL ROOF AND SITE AREAS.
4. DURING THE INSTALLATION OF MECHANICAL FASTENERS, THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY, INCLUDING BUT NOT LIMITED TO, MAPPING OF EXISTING CONDITIONS TO AVOID PENETRATING ALL CONDUITS, PIPING, WIRING, ETC. LOCATED BELOW THE DECK.

ARCHITECTURAL LEGEND

(symbol)	SHEET LOCATION MARK
(symbol)	DETAIL MARK
(symbol)	SECTION MARK
(S)	SEALANT
(PMJ)	PREMOLDED JOINT FILLER
(E)	EXISTING CONSTRUCTION (EXISTING ITEM TO REMAIN).
(R)	REMOVE EXISTING ITEM.
(RS)	REMOVE EXISTING ITEM AND SAVE FOR REINSTALLATION.
(RE)	REINSTALL EXISTING ITEM.
(RR)	REMOVE EXISTING ITEM AND REINSTALL EXISTING ITEMS IN SAME LOCATION.
(N)	NEW CONSTRUCTION (PROVIDE NEW ITEMS).
- - - -	EXISTING TO BE REMOVED
—— (dark)	DARK REPRESENTS NEW
—— (light)	EXISTING TO REMAIN



3 LADDER PLATFORM - NEW
SCALE: 3/4"=1'-0"



KEY PLAN
SCALE: NOT TO SCALE

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STATE OF CONNECTICUT ROBERT N. MACLEOD NO. 13599 LICENSED ARCHITECT

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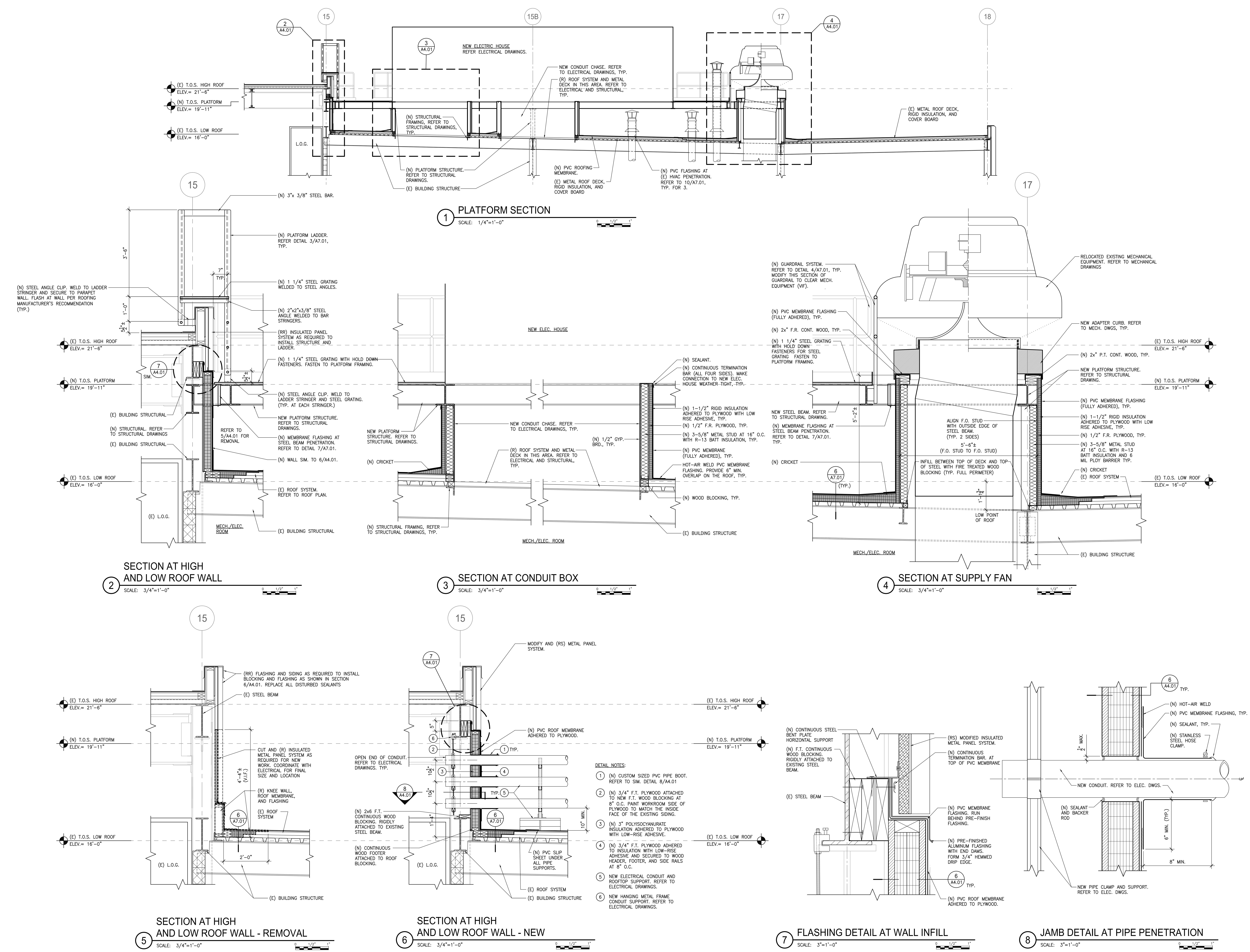
A1.01 ROOF AND STRUCTURAL PLAN

SCALE: AS NOTED	DATE: 09-15-21	REVISIONS:	DATE:
A/E PROJECT NO.: 18034.00			
USPS PROJECT NO.: B43529			



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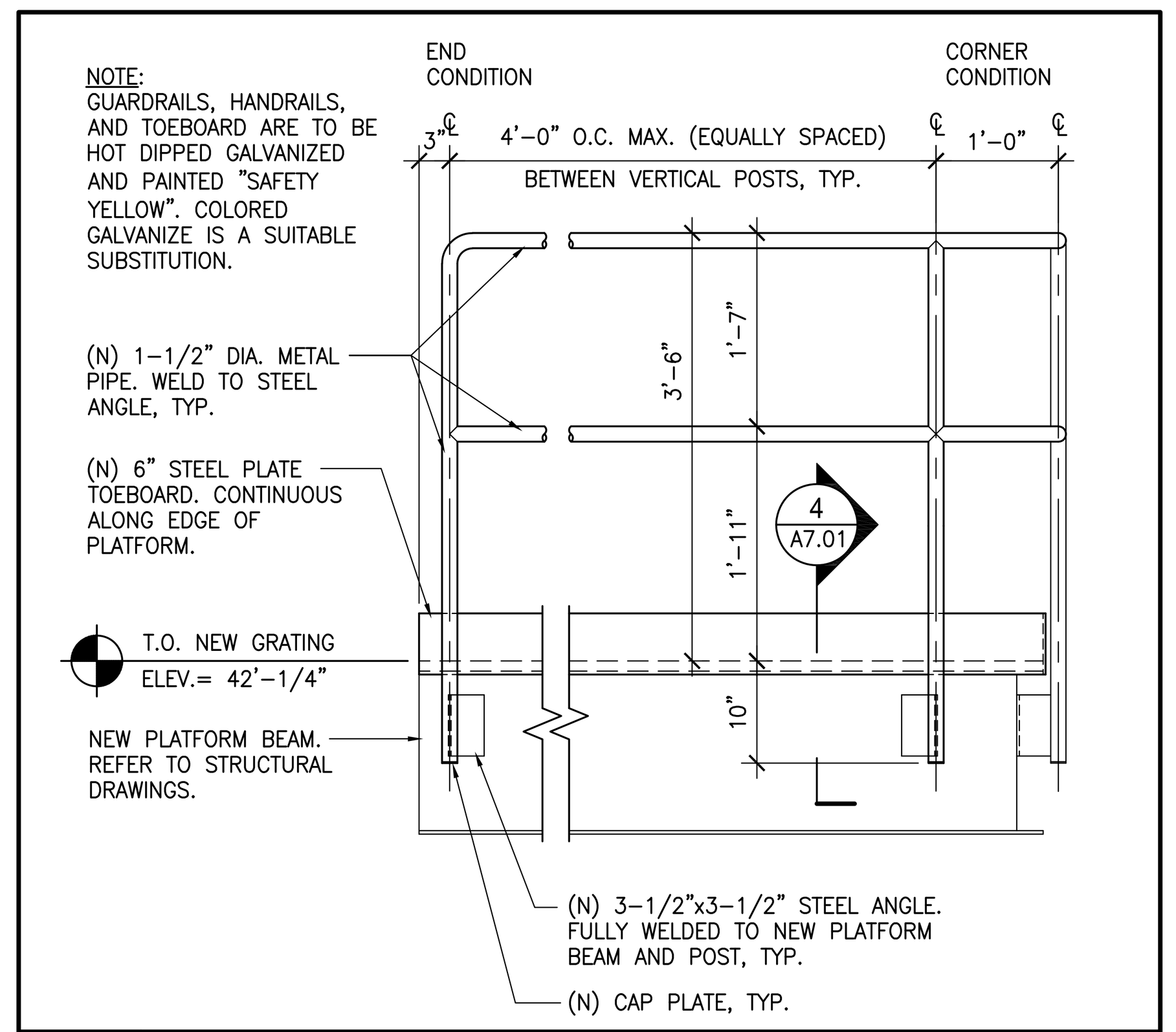
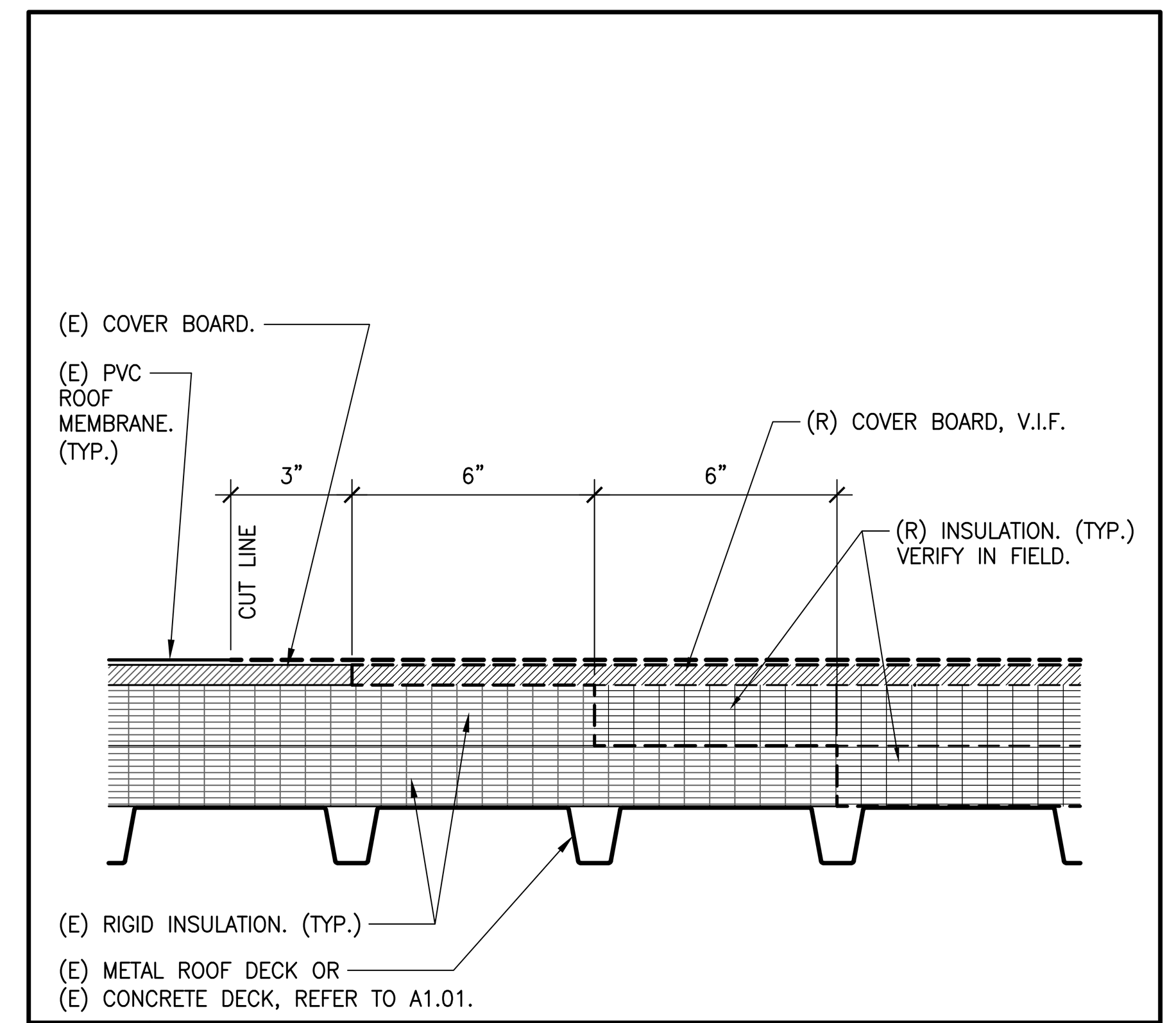
A4.01 PLATFORM SECTIONS

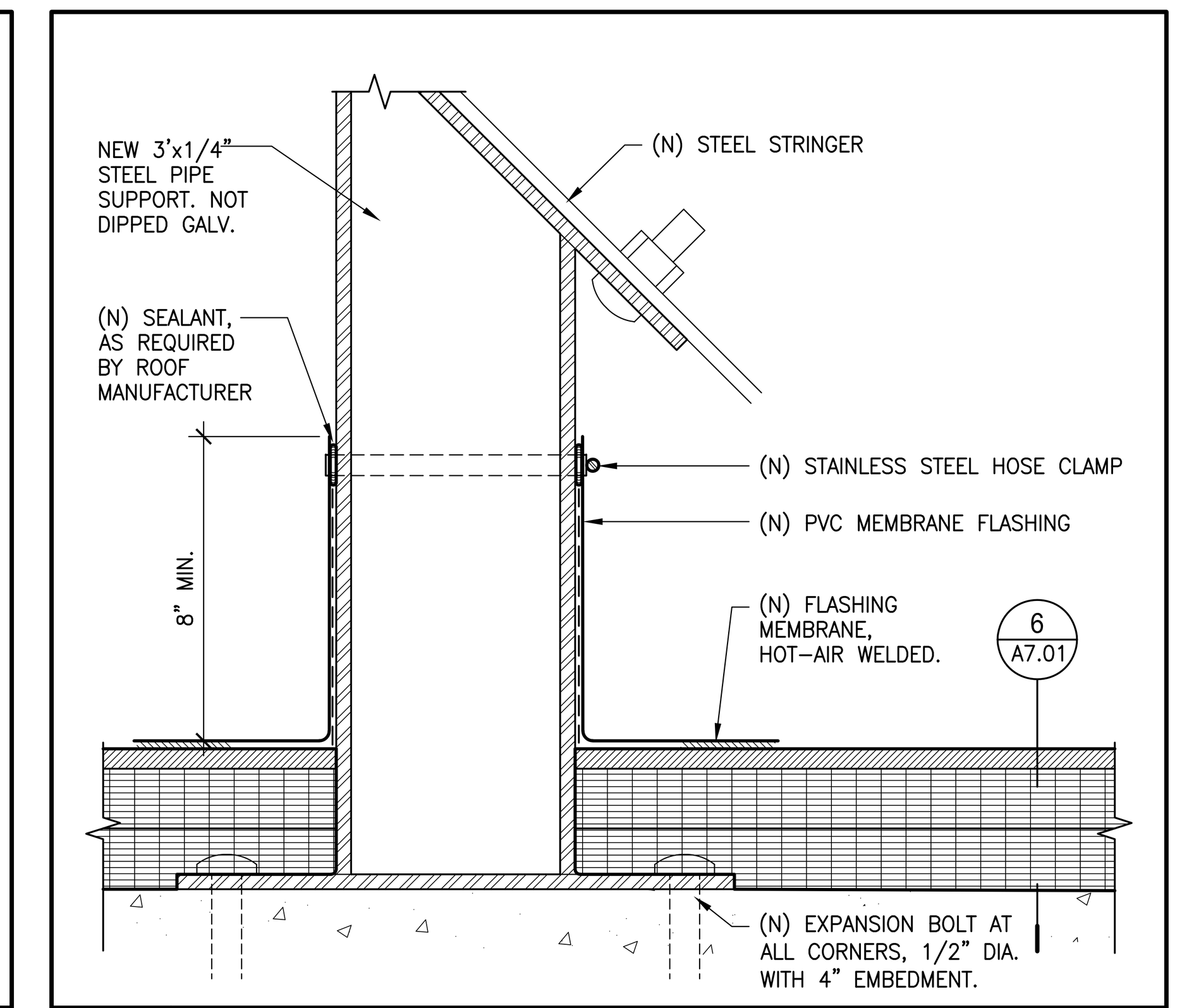
SCALE: AS NOTED DATE: 09-15-21
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529
REVISIONS: DATE:



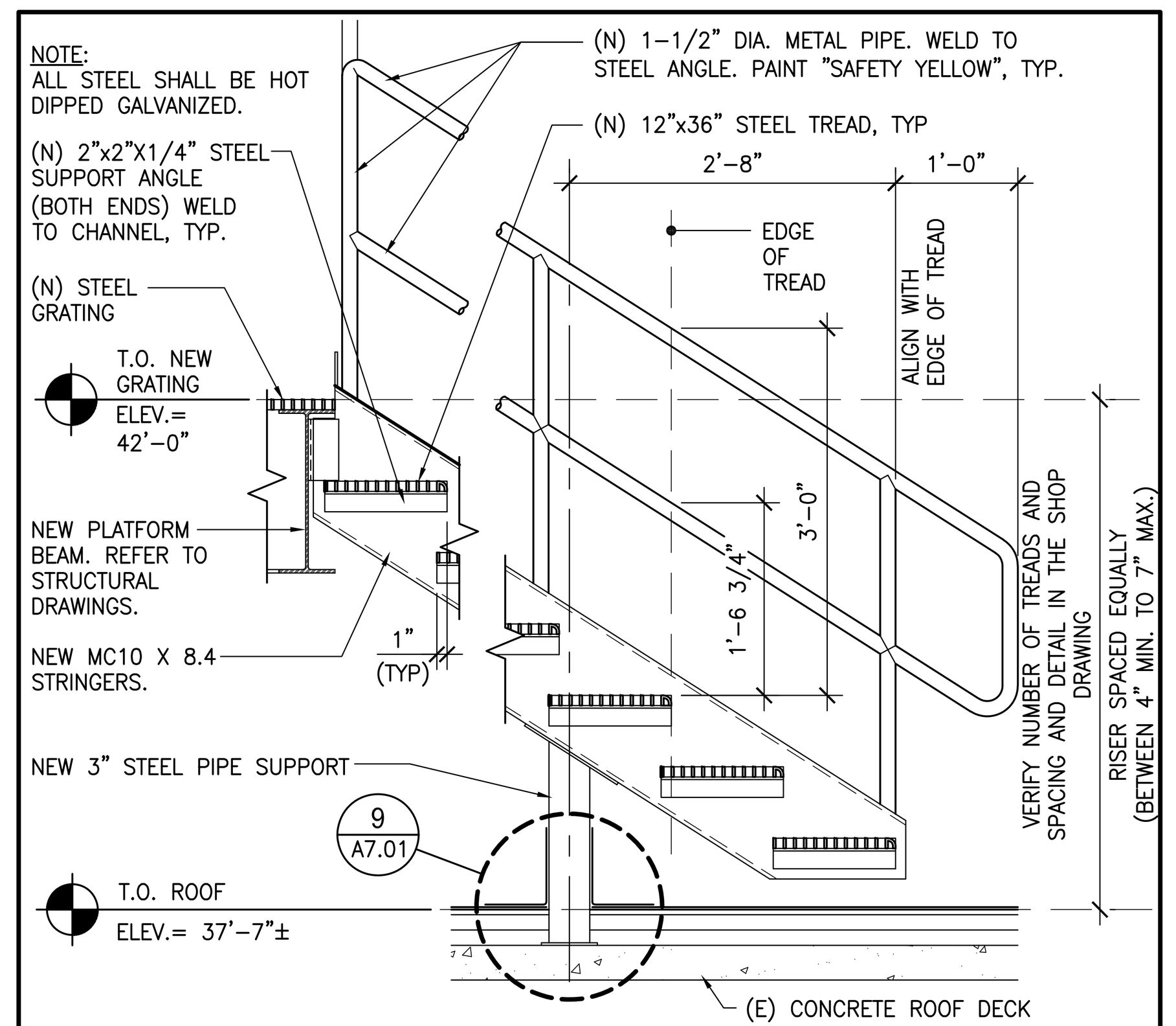
1 PLATFORM RAILING AND TOEBOARD
Scale: 3/4" = 1'-0"



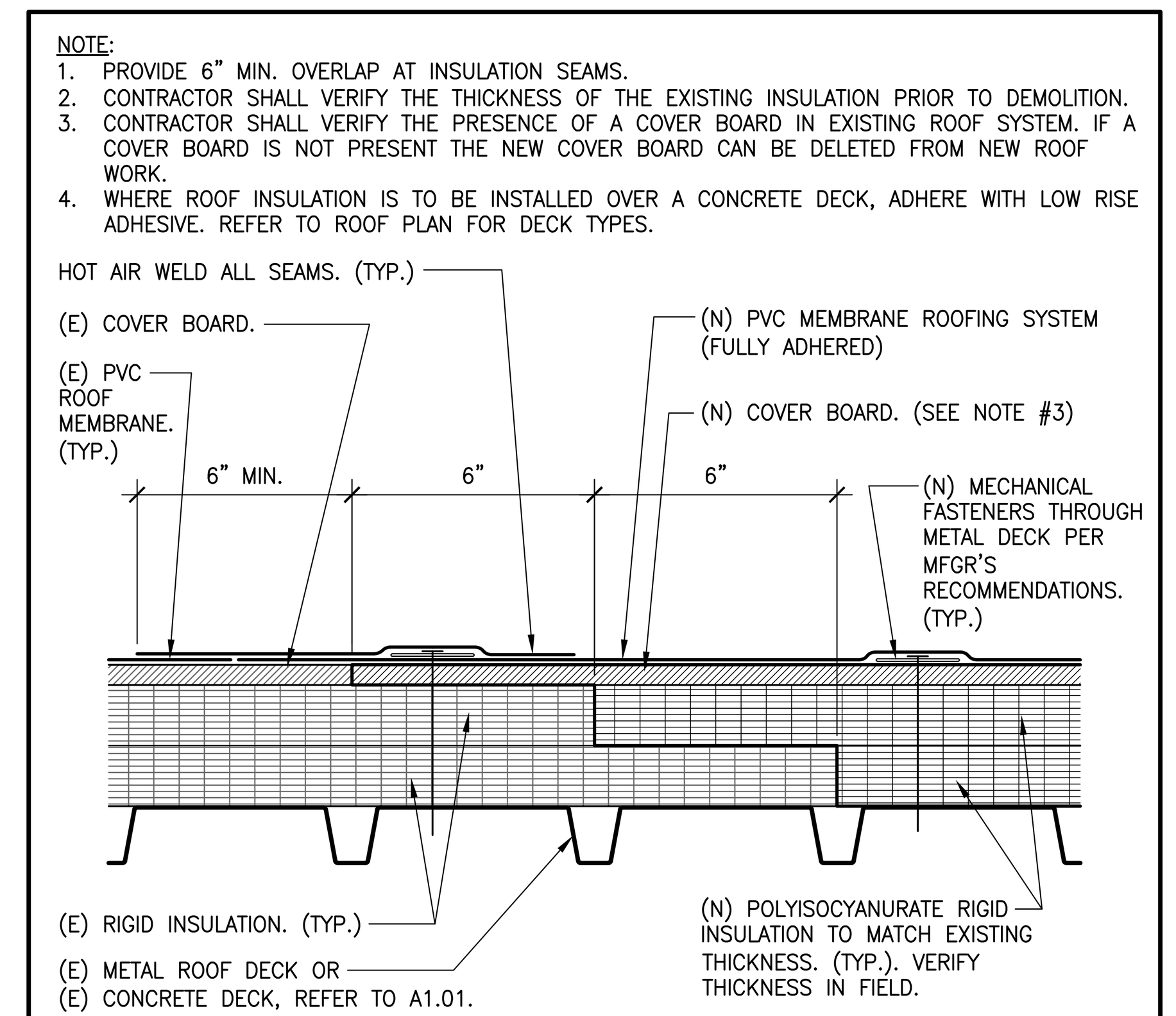
5 REMOVAL DETAIL ROOF SYSTEM
Scale: 3" = 1'-0"



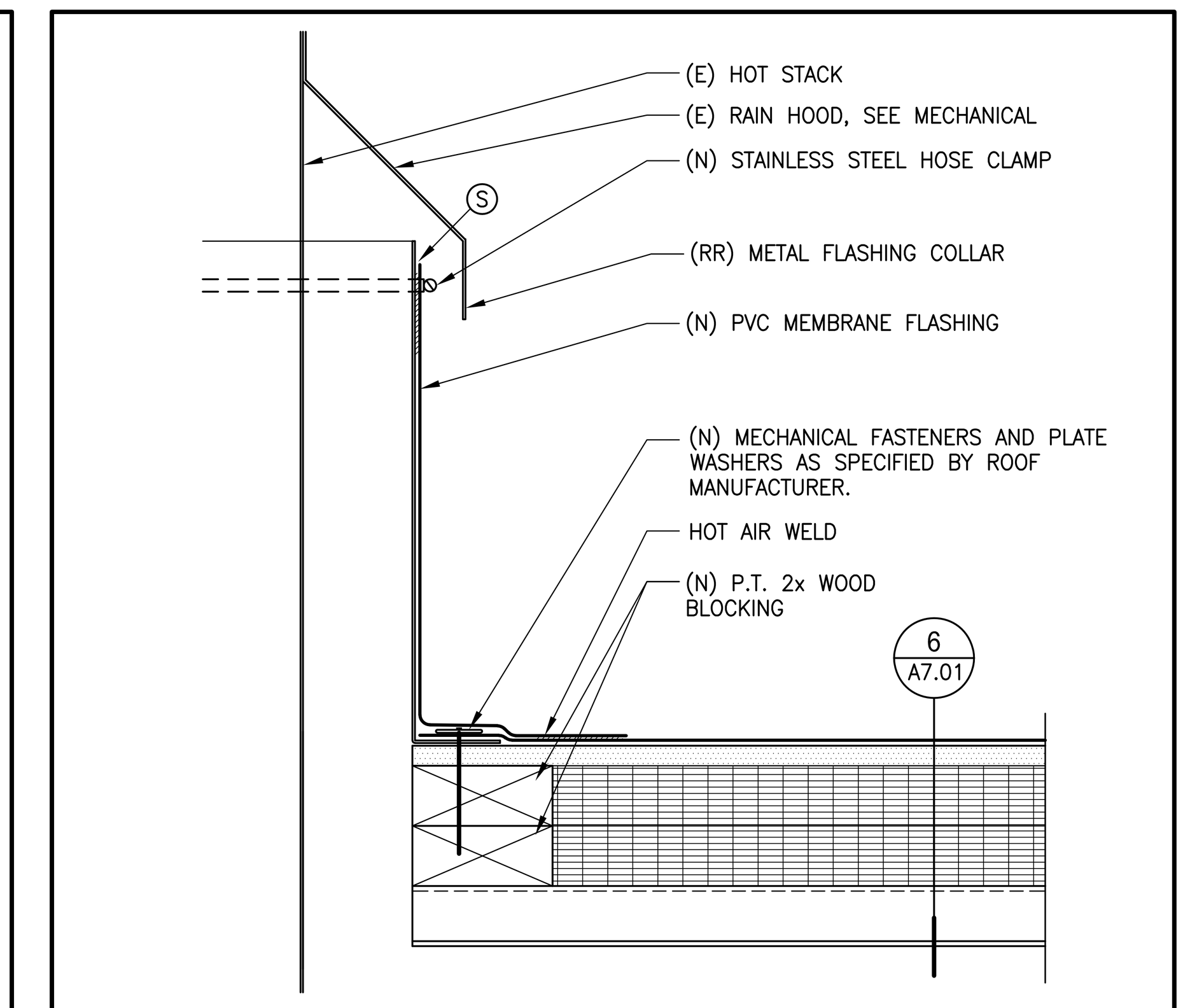
9 PIPE SUPPORT FLASHING
Scale: 3" = 1'-0"



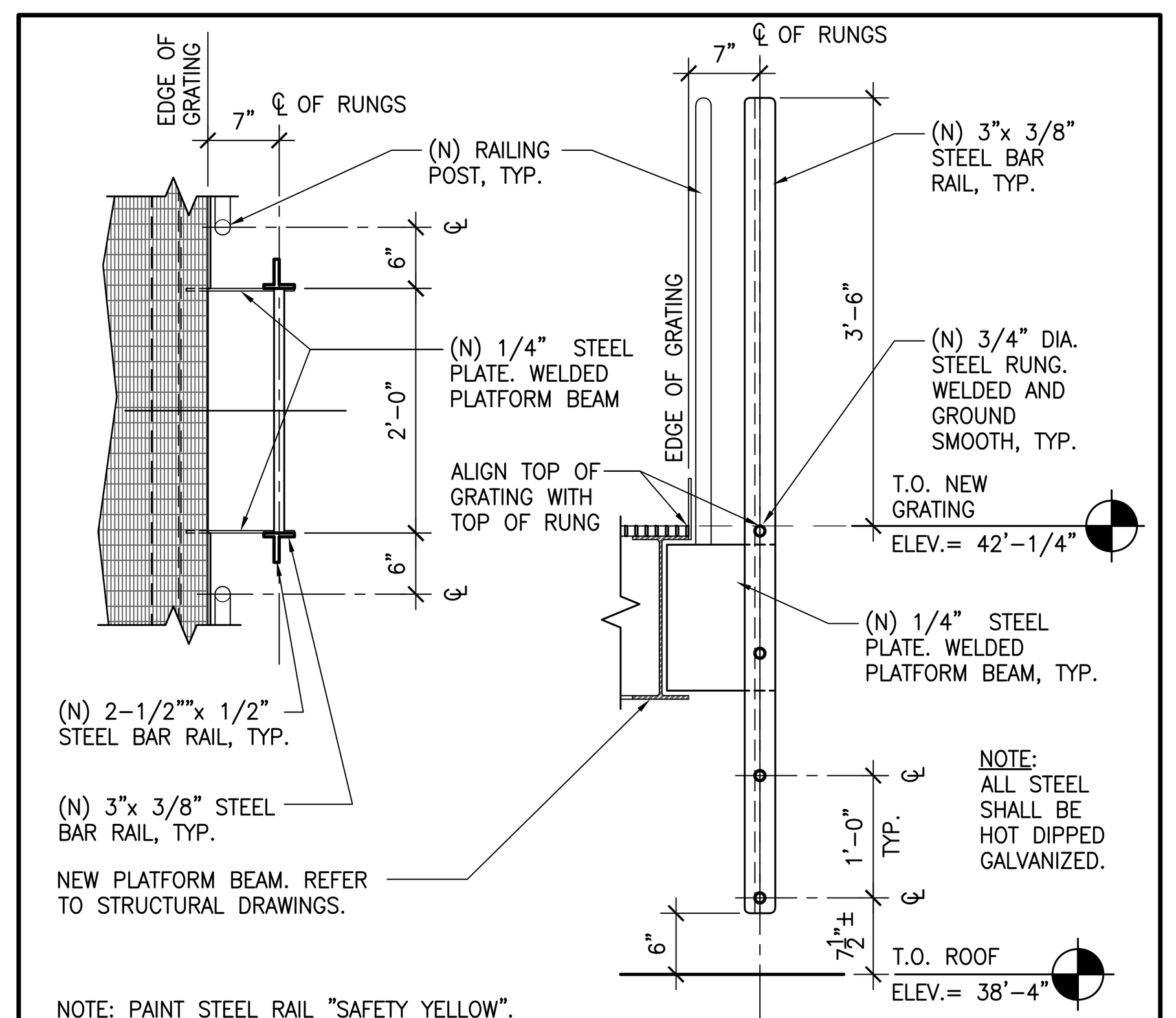
2 PLATFORM RAILING AND TOEBOARD
Scale: 3/4" = 1'-0"



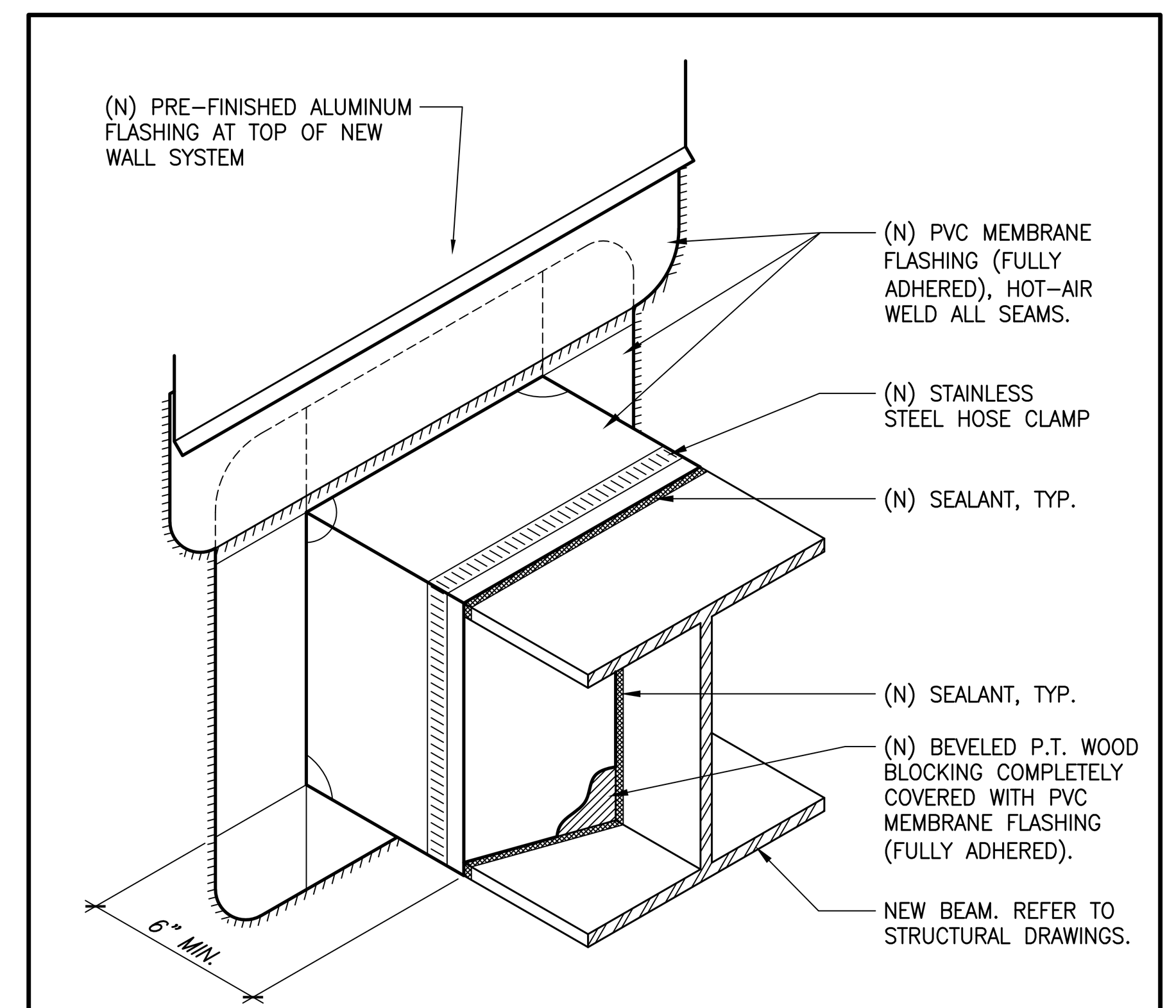
6 NEW DETAIL ROOF SYSTEM
Scale: 3" = 1'-0"



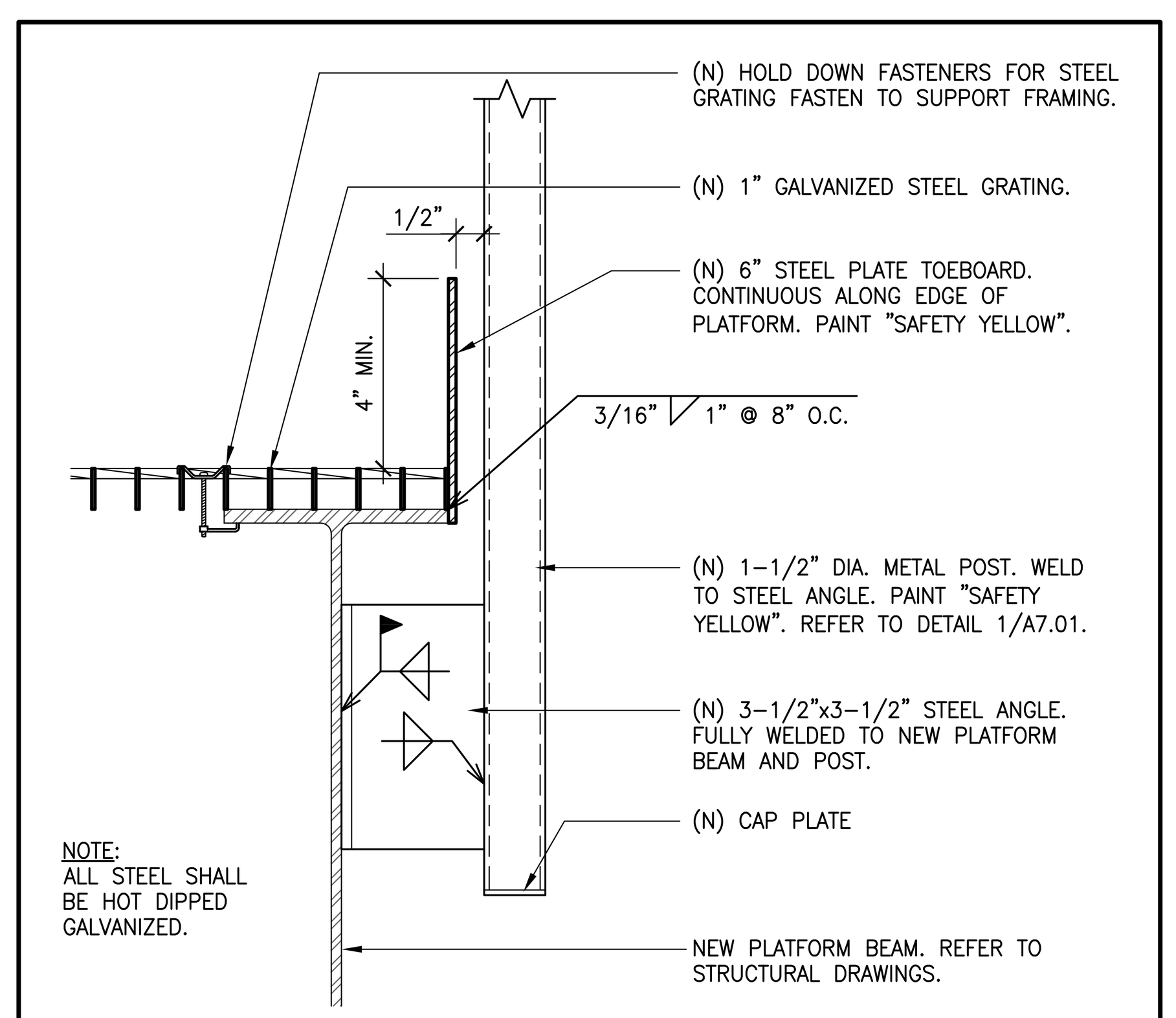
10 HEAT STACK FLASHING - NEW
Scale: 3" = 1'-0"
XX0-000



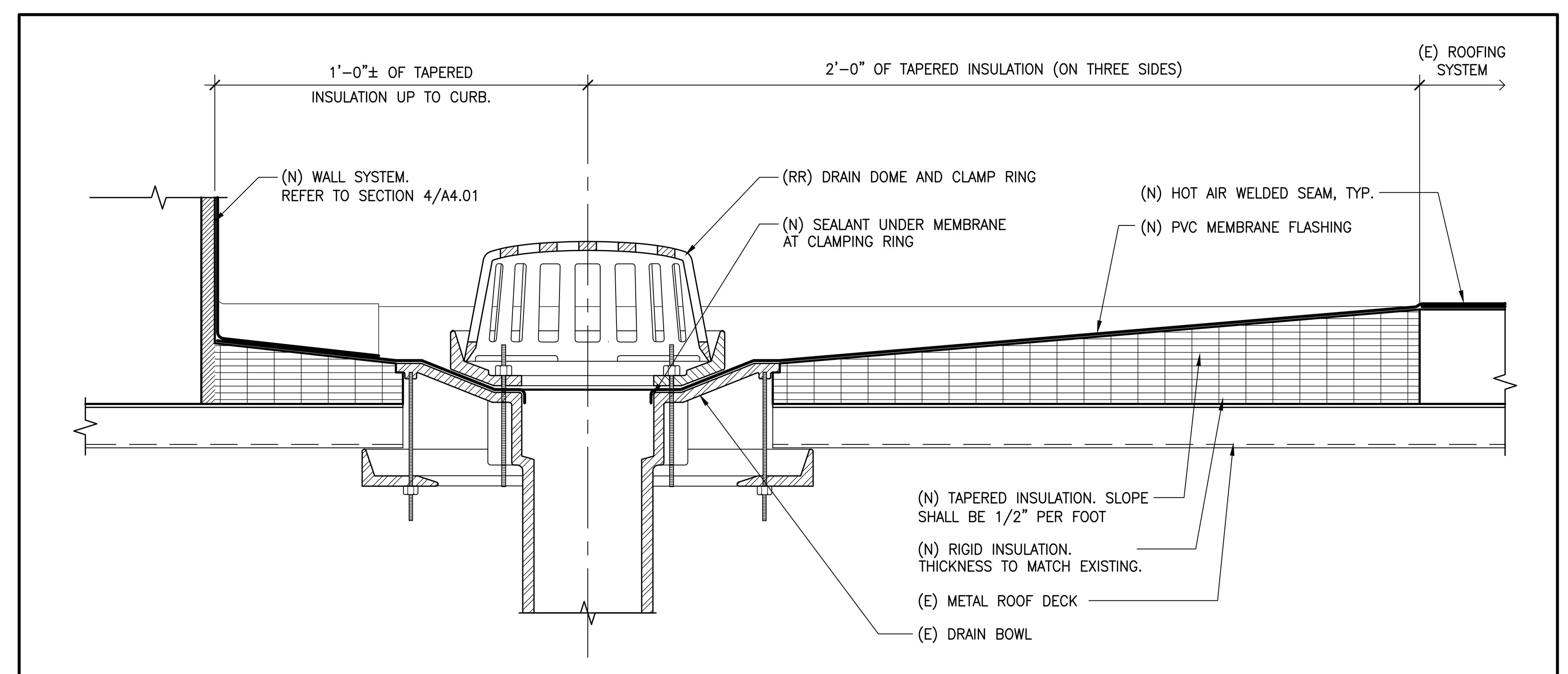
3 PLATFORM LADDER
Scale: 3/4" = 1'-0"



7 STEEL BEAM AT WALL FLASHING DETAIL
Scale: NOT TO SCALE



4 RAILING TO BEAM CONNECTION
Scale: 3" = 1'-0"



8 DRAIN AND SUMP DETAIL
Scale: NOT TO SCALE

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REVISIONS: DATE:

A7.01 DETAILS
SCALE: AS NOTED DATE: 09-15-21
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529

STRUCTURAL GENERAL NOTES

1. REFER TO THE PROJECT MANUAL FOR GENERAL CONTRACT REQUIREMENTS AND DETAILED REQUIREMENTS FOR MATERIALS, WORKMANSHIP AND SHOP DRAWINGS.

2. REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND APPROVED SHOP DRAWINGS FOR LOCATION AND DIMENSIONS OF OPENINGS, SLEEVES, DEPRESSIONS, AND ATTACHMENT OF FINISHES.

3. ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE FIELD COORDINATED BY THE CONTRACTOR WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND MARKED ON THE SHOP DRAWINGS PRIOR TO SUBMITTING FOR REVIEW & APPROVAL. REPORT ANY INCONSISTENCIES TO THE ARCHITECT / ENGINEER BEFORE PROCEEDING WITH THE WORK.

4. THE STRUCTURAL DESIGN IS BASED ON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS. NO PROVISIONS HAVE BEEN MADE FOR CONDITIONS OCCURRING DURING CONSTRUCTION. ANY FAILURE TO MAKE PROPER AND ADEQUATE PROVISIONS FOR STRESSES AND STABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION SHALL BE THE SOLE RISK AND RESPONSIBILITY OF THE CONTRACTOR.

5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EXISTING STRUCTURE & CONDITIONS NOTED ON THE DRAWINGS IN THE FIELD. NOTIFY THE ARCHITECT / ENGINEER IMMEDIATELY OF ANY CONDITION UNCOVERED DURING CONSTRUCTION THAT IS NOT CONSISTENT WITH THE PLANS, THAT MAY BE STRUCTURALLY INADEQUATE, OR THAT WILL IMPAIR ARCHITECTURAL /SWITCHGEAR LAYOUTS OR OPENINGS.

6. THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWING SUBMITTALS PRIOR TO SUBMITTAL TO THE ARCHITECT.

7. DETAILS, NOTES, ETC. SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.

STRUCTURAL TESTS AND INSPECTIONS

STRUCTURAL TESTS AND INSPECTIONS OF ALL STRUCTURAL WORK ARE REQUIRED TO COMPLY WITH CHAPTER 17 OF THE 2015 IBC.

1. REQUIRED STRUCTURAL TESTS AND INSPECTIONS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING SPECIFIC ITEMS. THE DESIGNATED INSPECTORS AND AGENCIES NAMED IN THE PROGRAM OF TESTS AND INSPECTIONS ARE RESPONSIBLE FOR THE FOLLOWING. ALL SAMPLING AND TESTING SHALL CONFORM TO THE APPLICABLE STANDARDS REFERENCED IN THE STATE BUILDING CODE.

   A. INSPECT THE BOLTING AND WELDING OF STRUCTURAL STEEL AND STRUCTURALLY CONTROLLED MISCELLANEOUS METALS RAILINGS, STAIRS & GRATING FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS.

   B. ULTRASONICALLY TEST ALL FULL PENETRATION WELDS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

2. STRUCTURAL SYSTEMS DESIGNED INDEPENDENTLY OF THE SER MUST BE INSPECTED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR THAT DESIGN. INSPECTIONS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING SPECIFIC ITEMS:

   A. INSPECT THE FABRICATION, FIELD INSTALLATION AND QUALITY CONTROL OF RAILINGS, STAIRS & GRATING.

DESIGN LOADS

THE VARIOUS PORTIONS OF THE STRUCTURE ARE DESIGNED TO CARRY THE FOLLOWING LIVE LOADS, IN ADDITION TO SPECIFIC MACHINERY AND EQUIPMENT LOADS, IN CONFORMANCE WITH 2015 IBC, ASCE 7-10 & AMMENDEMTNS FROM THE 2018 CT STATE BUILDING CODE:

1. GRAVITY LOADS:

   A. ROOF LIVE LOAD: 20 PSF

   B. ROOF SNOW LOAD(BASIC SNOW LOAD PLUS PROVISIONS FOR UNBALANCED, DRIFTING AND SLIDING SNOW)
      i. GROUND SNOW LOAD, Pg: 30 PSF
      ii. FLAT ROOF SNOW LOAD, Pf: 25 PSF

2. LATERAL LOADS:

   A. WIND LOADS:
      i. ULTIMATE WIND SPEED: 125 MPH
      ii. WIND IMPORTANCE FACTOR, Iw: 1.0
      iii. WIND EXPOSURE: B

   B. EARTHQUAKE DESIGN DATA:
      i. SDC B; ELECTRICAL ROOF TOP EQUIIPMENT EXEMPT PER SECTION 13.1.1.4 ASCE 7-10

DEMOLITION

1. BEFORE PROCEEDING WITH ANY DEMOLITION, THE AREA MUST BE SURVEYED AND EVALUATED BY THE CONTRACTOR TO ENSURE THAT NO DAMAGE WILL BE MADE TO ANY STRUCTURE OR EQUIPMENT BEYOND THE DEMOLITION.

2. CONTRACTOR TO COORDINATE NEW STEEL BEAM CONNECTIONS TO EXISTING COLUMNS AFTER DEMOLTION OF EXISTING EXTERIOR CRIB WALL WITH STRUCTURAL DETAILS, PENETRATIONS & NEW ARCHTIECTURAL WALL, FLASHING, ROOFING, ETC. DETAILS. NOTIFY ARCHTECT / ENGINEER OF ANY CONCERNS, INCONSISTENCIES, ETC. FOR REVIEW AND POSSIBLE MODIFICATIONS TO CONTRACT DCOUMENTS PRIOR TO SUBMITTAL OF STEEL FABRICATION SHOP DRAWINGS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL WIDE-FLANGED SECTIONS SHALL CONFORM TO ASTM A992.

2. STRUCTURAL STEEL HSS COLUMNS SHALL CONFORM TO ASTM A500, GRADE B MINIMUM Fy=46 KSI.

3. OTHER STRUCTURAL STEEL SHAPES AND PLATES SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.

4. SHOP AND FIELD CONNECTIONS SHALL BE BY HIGH STRENGTH BOLTS OR WELDING. ALL BOLTED CONNECTIONS SHALL BE DETAILED FOR MAXIMUM END REACTIONS OF SUPPORTED ELEMENT AND ALL WELDS SHALL DEVELOP FULL STRENGTH OF MEMBERS TO BE WELDED, UNLESS NOTED OTHERWISE.

5. THE FABRICATOR IS RESPONSIBLE FOR SUBMITTING FOR APPROVAL, ERECTION PLANS, PIECE DRAWINGS, DETAILS AND SUPPORTING CALCULATIONS (IF REQUESTED) FOR ALL STRUCUTRAL STEEL, CONNECTIONS, ETC. USING MAXIMUM END REACTIONS (IF NOT SEPCIFIED ON DRAWINGS).

6. TEMPORARY ERECTION BRACING SHALL BE PROVIDED TO HOLD STRUCTURAL STEEL SECURELY IN POSITION. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL PERMANENT BRACING HAS BEEN INSTALLED.

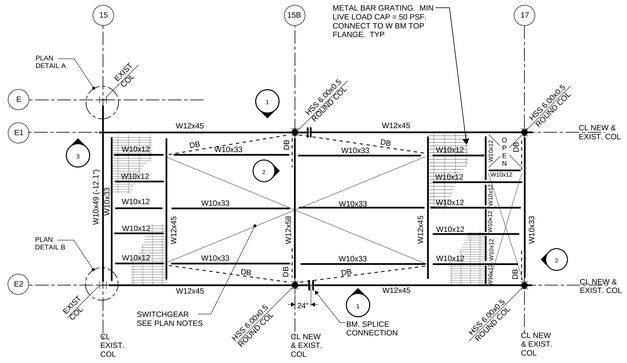
7. AT ALL FLOOR AND ROOF OPENINGS, PROVIDE 5x5x5/16" ANGLES AT EACH SIDE OF OPENINGS FRAMED TO ADJACENT SUPPORTS, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

8. PROVIDE 5/16" THICK FITTED STIFFENER PLATE ON EACH SIDE OF STEEL BEAM WEB WHERE HANGERS OR POSTS OCCUR.

9. OMIT PAINT FROM ALL CONNECTIONS TO BE FIELD WELDED.

10. ALL STEEL ELEMENTS INCLUDING BUT NOT LIMITED TO BEAMS, COLUMNS, PLATES, BOLTS, WASHERS, ETC. TO BE HOT-DIPPED GALVANIZE. TOUCH-UP STEEL AFTER INSTALLATION WITH LIQUID GALV OR ZINC RICH PAINT SUBMITTED & APPROVED BY ARCHITECT /ENGINEER.

11. RAILINGS, STAIRS & GRATING TO BE DESIGNED BY AN INDEPENDENT ENGINEER EMPLOYED BY THE CONTRACTOR & THEIR SUBS. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND CALCULATIONS BEARING THE STAMP OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT FOR REVIEW ONLY TO ENSURE CONFORMANMCE WITH THE DESIGN INTENT. SEE ARCHITECTURAL & STRCTURAL CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION & REQUIREMENTS.



SWITCHGEAR DUNNAGE PLATFORM
1/8" = 1'-0"

ALL STEEL, BOLTS, ETC TO BE GALVANIZED. TOUCH-UP WITH LIQUID GALV OR ZINC RICH PAINT ANY SCRATCHES, WELDS, EXPOSED STEEL, ETC. AFTER DUNNAGE STEEL & GRATING IS COMPLETE & SWITCHGEAR IS IN PLACE & SECURED

DB INDICATES L4x4x5/16 DIAGONAL BRACES + 3/8" GUSSET PLATE EACH END. SEE SECTION.

TOP OF DUNNAGE STEEL ELEV 16'-0" UNO (+/-) FROM TOP OF STEEL. VERIFY WITH ARCHITECT & SWITCHGEAR

DUNNAGE RAILINGS & STAIRS TO BE DESIGNED BY OTHERS IN CONFORMANCE WITH THE APPLICABLE BUILDING CODE REQUIREMENTS. IF REQUESTED, SUBMIT RAILING & STAIR CALCULATIONS, DRAWINGS, ETC. PREPARED BY A QUALIFIED DESIGN PROFESSIONAL FOR REVIEW ONLY.

BBC's SCOPE OF RESPONSIBILITY IS LIMITED TO THE DUNNAGE PLATFORM ONLY. SWITCHGEAR EQUIPMENT, METAL ENCLOSURE, CONENCTIONS TO THE DUNNAGE, ETC. IS BY OTHERS. GC TO COORDINATE SWITCHGEAR CONNECTIONS TO THE DUNNAGE STEEL PRIOR TO SUBMITTING STEEL FABRICATION DRAWINGS FOR REVIEW / APPROVAL. SEE STRUCTURAL GENERAL NOTES FOR ASSUMED DUNAGE DESIGN LOADS AND NOTIFY ARCHITECT / ENGINEER OF ANY INCONSISTENCIES, DIFFERENCES, STRUCTURAL CONCERNS, ETC.

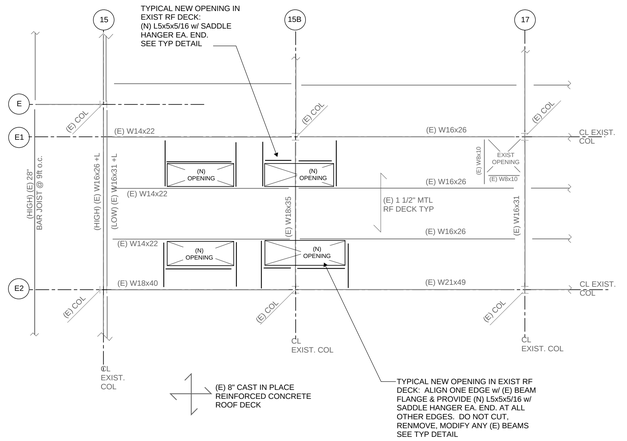
GC TO COORDINATE ALL DIMENSIONS, ELEVATIONS, BEAM LOCATIONS, ETC. WITH SWITCHGEAR, ARCHITECT & IN PLACE FIELD CONDITIONS PRIOR TO SUBMITTING STEEL FABRICATION SHOP DRAWINGS.

DUNNAGE DESIGN IS BASED ON A TOTAL SWITCHGEAR WEIGHT, INCLUDING ENCLOSURE & ALL EQUIPMENT = 50 KIPS. METAL BOX ENCLOSURE ASSUMED TO BE SUPPORTED ALONG THE PERIMETER & ONE INTERMEDIATE LONGITUDINAL BEARING WALL.

****** CONTRACTOR TO SUBMIT FINAL & ACCURATE SWITCHGEAR EQUIPMENT LOADS, METAL BOX LOADS, METAL BOX FRAMING, WIND & SEISMCI LOADS, CONNCTINS TO DUNNAGE STEEL, LIMITIGN DEFLECTIN REQUIREMENTS, ETC. PRIOR TO SUBMITTING STEEL FABRICATION DRAWINGS TO ENSURE THE DUNNAGE DESIGN & EXISTING BUILDING STRUCTURE CAN SAFELY ACCOMODATE THE SWITCHGEAR DESIGN PARAMETERS, LOADS, ETC.

CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS NOTED. CONTACT ENGINEER / ARCHITECT OF ANY CONDITION NOTED OR DISCOVERED THAT IS INCONSISTENT WITH THE DRAWINGS, DETAILS OR APPEARS TO BE A STRUCTURAL CONCERN

(E) = EXISTING; (N) = NEW ALL STEEL IS NEW UNLESS NOTED OTHERWISE



NEW OPENINGS IN EXISTING ROOF DECK
1/8" = 1'-0"

PROVIDE L5x5x5/164 STEEL ANGLE EACH SIDE OF OPENING (AS SHOWN) w/ SADDLE HANGER CONNECTION TO EXISTING STEEL BEAM. SEE TYPICAL DETAIL

EXIST STEEL ROOF BEAMS TO REMAIN WITHIN NEW OPENNGS. DO NOT CUT, BURN OR REMOVE ANY EXIST. STEEL ROOF BEAMS

GC TO COORDINATE NEW OPENINGS & NEW STEEL ANGLE DIMENSIONS w/ ARCHITECTURAL & MEP REQUIREMENTS PRIOR TO STEEL FABRCIATION SHOP DRAWING SUBMITTAL.

CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS NOTED. CONTACT ENGINEER / ARCHITECT OF ANY CONDITION NOTED OR DISCOVERED THAT IS INCONSISTENT WITH THE DRAWINGS, DETAILS OR APPEARS TO BE A STRUCTURAL CONCERN.

(E) = EXISTING (N) = NEW

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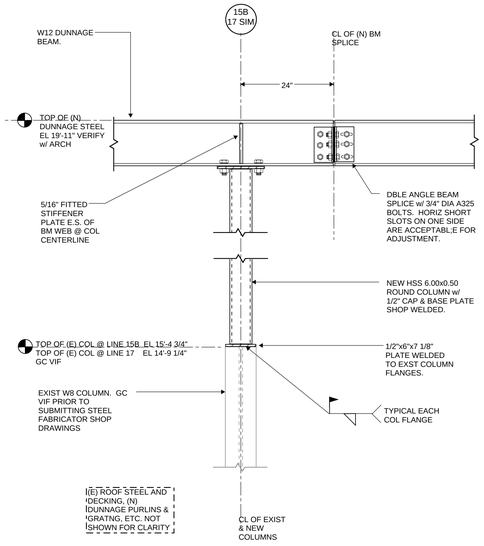
DUNNAGE PLATFORM & NEW OPENINGS IN EXISTING ROOF FRAMING PLANS & STRUCTURAL GENERAL NOTES

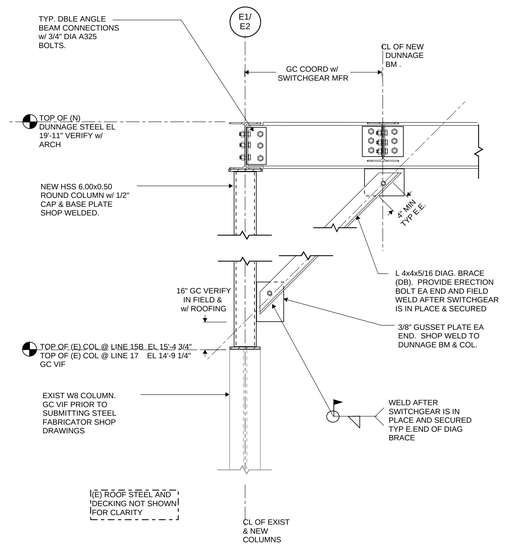
REVISIONS: DATE:

S1.01

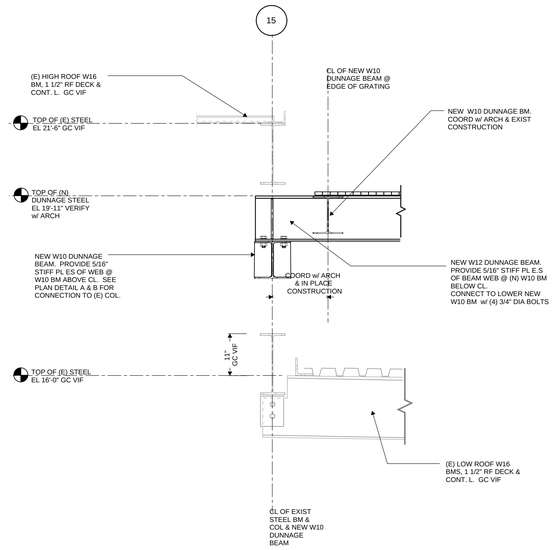
SCALE: AS NOTED DATE:
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529



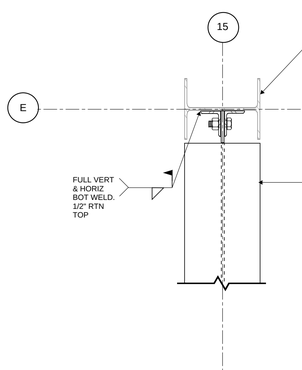
SECTION 1 - BM SPLICE
3/4" = 1'-0"



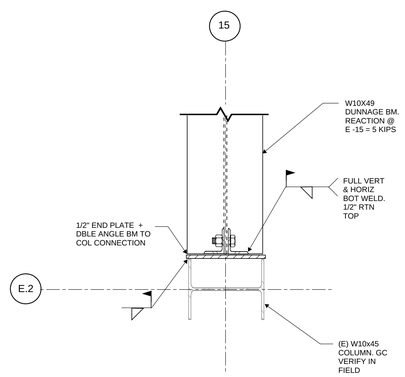
SECTION 2 - DIAGONAL BRACE (DB)
3/4" = 1'-0"



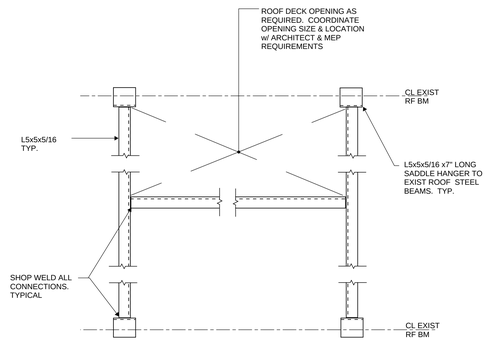
SECTION 3 - BM CONNECTION @ EXIST WALL (15 LINE)
3/4" = 1'-0"



(N) BM TO (E) COL CONNECTION
PLAN DETAIL A
1 1/2" = 1'-0"



(N) BM TO (E) COL CONNECTION
PLAN DETAIL B
1 1/2" = 1'-0"



TYPICAL FRAMING DETAIL AT NEW OPENINGS IN EXIST MTL ROOF DECKING.
NTS

DO NOT DEMO, CUT, MODFIY ANY EXISTING STEEL BEAMS FOR NEW OPENINGS. EXIST. ROOF BEAMS TO WITHIN NEW ROOF DECK OPENINGS TO REMAIN UNALTERED

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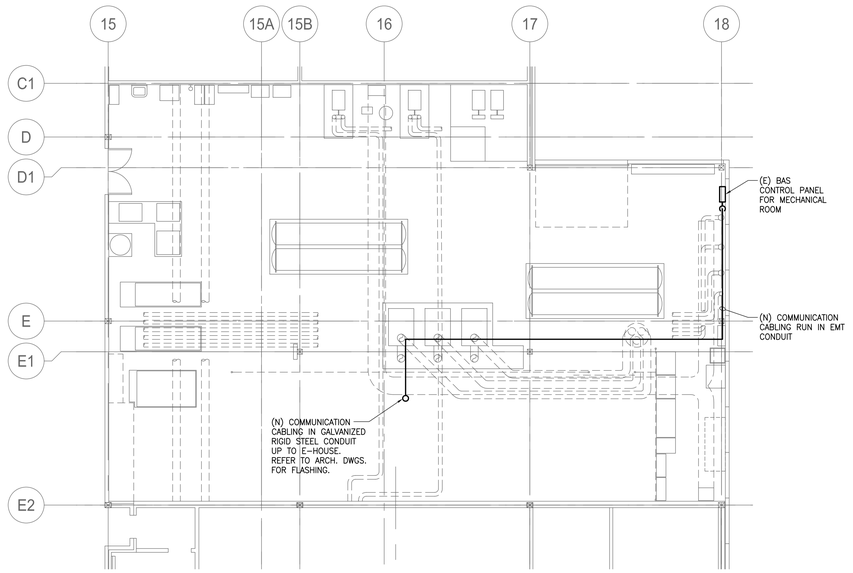
S1.02

SECTIONS, PLAN DETAILS & TYPICAL DETAIL

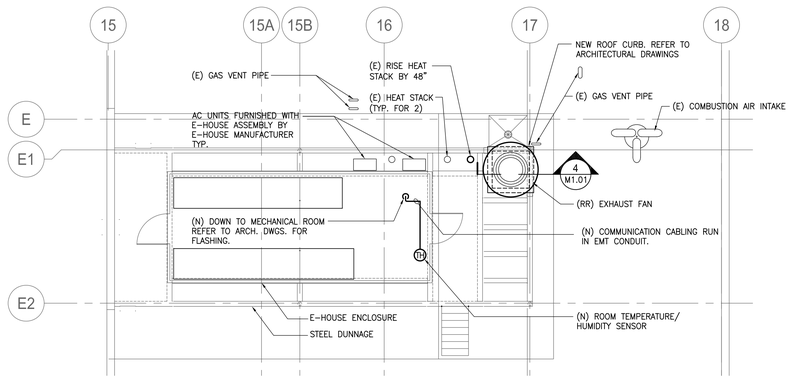
SCALE: AS NOTED
DATE:
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529

REVISIONS:
DATE:



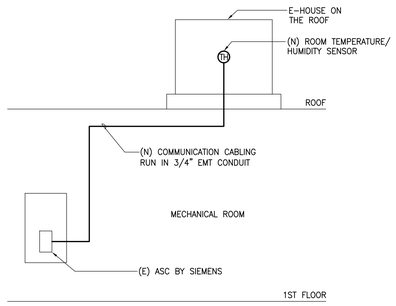
1 MECHANICAL ROOM PLAN

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



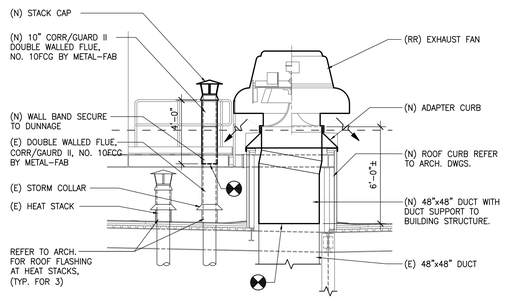
2 PART ROOF PLAN AND E-HOUSE MECHANICAL PLAN

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



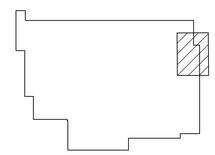
3 TEMPERATURE MONITORING WIRING DIAGRAM

SCALE: N.T.S



4 EXHAUST FAN SECTION

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



KEY PLAN

SCALE: NOT TO SCALE

BUILDING AUTOMATION SYSTEM (BAS) NOTES:

1. THE FACILITY HAS AN EXISTING SIEMENS BAS SYSTEM WITH BACNET IP PROTOCOL.
2. THE NEW ROOM TEMPERATURE SENSOR SHALL BE CONNECTED TO THE EXISTING I/O MODULE OF THE CONTROLLER OF BAS CONTROL PANEL LOCATED IN MECHANICAL ROOM.
3. CONTRACTOR SHALL PROVIDE ALL PROGRAMING TO EXISTING BAS FOR NEW TEMPERATURE/HUMIDITY SENSOR INCLUDING GRAPHIC MAPPING FOR THE FOLLOWING POINTS:
   A. E-HOUSE TEMPERATURE
   B. E-HOUSE HUMIDITY
4. CONTRACTOR SHALL PROVIDE ALARM ON THE BAS PROGRAMMING FOR E-HOUSE BASED ON THE BELOW CONDITIONS:
   A. TEMPERATURE ABOVE 85°F
   B. HUMIDITY ABOVE 60%

MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
AS	AIR SEPARATOR
ATC	AUTOMATIC TEMPERATURE CONTROL
B	BOILER
BOD	BOTTOM OF DUCT
BTUH	BRITISH THERMAL UNIT PER HOUR
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
Co2	CARBON DIOXIDE SENSOR
CP	CONDENSATE PUMP
CW	COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DB°F	DRY BULB TEMPERATURE
DN	DOWN
DP°F	DEW POINT TEMPERATURE
DX	DIRECT EXPANSION COIL
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL SUBCONTRACTOR
EDB	ENTERING AIR TEMPERATURE, DRY BULB
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EMS	ENERGY MANAGEMENT SYSTEM
ENT	ENTERING
EP	ELECTRICAL PNEUMATIC SWITCH
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWB	ENTERING AIR TEMPERATURE, WET BULB
EWT	ENTERING WATER TEMPERATURE
FLA	FULL LOAD AMPS
FD	FIRE DAMPER
FPM	FEET PER MINUTE
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSE POWER
HPCR	HIGH PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM
HV	HEATING AND VENTILATING UNIT
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
LBS/HR	POUNDS PER HOUR
LDB	LEAVING AIR TEMPERATURE, DRY BULB
LPCR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMP
LVG	LEAVING
LWB	LEAVING AIR TEMPERATURE, WET BULB
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	THOUSAND BTUH
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
MPCR	MEDIUM PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PE	PNEUMATIC ELECTRIC SWITCH
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SD	SMOKE DAMPER
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
SR	SUPPLY REGISTER / DIFFUSER
SST	SATURATED SUCTION TEMPERATURE
TA	TOTAL AIR
TCP	TEMPERATURE CONTROL PANEL
TG	TRANSFER GRILLE
T-STAT	THERMOSTAT
UN	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WB°F	WET BULB TEMPERATURE
WP	WEATHERPROOF

(A)	ABANDON ITEM IN PLACE
(E)	EXISTING ITEM TO REMAIN
(R)	EXISTING ITEM TO BE REMOVED AND DISPOSED OF
(N)	PROVIDE NEW ITEM
(RR)	EXISTING ITEM TO BE REMOVED AND REINSTALLED

MECHANICAL GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE U.S.P.S TO MAINTAIN CUSTOMER ACCESS AT ALL TIMES.
2. ALL WORK BEING PERFORMED SHALL NOT IN ANY WAY INTERFERE WITH THE REGULAR OPERATION OF THE U.S.P.S. FACILITY. SECURITY SHALL BE MAINTAINED AT ALL TIMES.
3. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FACILITY FOR ACCESS TO AND FROM THE FACILITY.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE BEGINNING ANY WORK OR PURCHASING ANY MATERIAL OR EQUIPMENT.
5. THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS BEFORE SUBMITTING THEIR OFFER. NO EXTRA WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THE ABOVE.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER OF ANY EXISTING CONDITION DISCOVERED DURING DEMOLITION THAT WILL INTERFERE WITH THE NEW WORK.

MECHANICAL LEGENDS

- PIPE TEE DOWN
- PIPE TEE UP
- PIPE RISE
- PIPE DROP
- PIPE END CAP
- PIPE BREAK
- AIR FLOW
- TH — TEMPERATURE AND HUMIDITY SENSOR / HUMIDISTAT
- CONNECT NEW TO EXISTING
- X / MX.0X — SECTION DESIGNATION / DRAWING NO. WHERE SECTION IS SHOWN

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M1.01 PARTIAL ROOF PLAN

SCALE: AS NOTED
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: BA3529

REVISIONS:
DATE:
DATE: 09-15-21

ELECTRICAL ABBREVIATIONS

#P	NUMBER OF POLES
#P#W	NUMBER OF POLES, NUMBER OF WIRES
+#	NUMERAL INDICATES MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR OR GRADE, IN INCHES.
A	AMPERES
AC	ALTERNATING CURRENT
A/E	ARCHITECT/ENGINEER
AF	AMP FRAME / AMP FUSE
AFCI	ARC–FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
A/V	AUDIO / VISUAL
AWG	AMERICAN WIRE GAGE
BIL	BASIC IMPULSE LEVEL
BLDG	BUILDING
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT
CAT	CATALOG
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CB/CKT BKR	CIRCUIT BREAKER
℄	CENTERLINE
CO	CARBON MONOXIDE
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CU	COPPER
Δ	DELTA
DC	DIRECT CURRENT
DISC	DISCONNECT
DN	DOWN
DWG	DRAWING(S)
E	WIRED ON EMERGENCY CIRCUIT
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC(AL)
EM/EMER	EMERGENCY
EMT	ELECTRICAL METAL TUBING
ENT	ELECTRICAL NON–METALLIC TUBING
EOL	END OF LINE
EPO	EMERGENCY POWER OFF
F	FUSE
FDR	FEEDER(S)
FLA	FULL LOAD AMPERES
FLR	FLOOR
FMC	FLEXIBLE METAL CONDUIT
G/GND	GROUND
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFCI	GROUND–FAULT CIRCUIT INTERRUPTER
GFPE	GROUND–FAULT PROTECTION FOR EQUIPMENT
GRSC	GALVANIZED RIGID STEEL CONDUIT
HP	HORSEPOWER
HV	HIGH VOLTAGE
HZ	HERTZ
IDC	INITIATING DEVICE CIRCUIT
IDS	INTRUSION DETECTION SYSTEM
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
JB	JUNCTION BOX
kcmil	THOUSAND CIRCULAR MILS
K/O	KNOCK–OUT
kV	KILOVOLTS
kVA	KILOVOLT–AMPERE
kVAR	KILOVOLT–AMPERE REACTIVE
kW	KILOWATTS
LTG	LIGHTING
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	METAL CLAD CABLE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUG ONLY
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NM	NON–METALLIC SHEATHED CABLE
NMC	NON–METALLIC CONDUIT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
#	NUMBER
O.C.	ON CENTER
O/H	OVERHEAD
PC	PLUMBING CONTRACTOR/ PERSONAL COMPUTER
PH / ø	PHASE
PIR	PASSIVE INFRARED
PIV	POST INDICATING VALVE
PNL/PNLBD	PANEL/PANELBOARD
POS	POINT OF SALE
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE CONDUIT
PWR	POWER
RCP	REFLECTED CEILING PLAN
RMC	RIGID METAL CONDUIT
RSC	RIGID STEEL CONDUIT
SEC	SECONDARY
SN	SOLID NEUTRAL
SS	STAINLESS STEEL
ST	SHUNT TRIP
STP	SHIELDED TWISTED PAIR
STL	STEEL
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TCC	TEMPERATURE CONTROL CENTER
T/D	TELEPHONE/DATA
TEL	TELEPHONE
TMCB	THERMAL MAGNETIC CIRCUIT BREAKER
TO	TELECOMMUNICATION OUTLET
TYP	TYPICAL
UC	UNDER–COUNTER OR UNDER–CABINET
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPIBLE POWER SOURCE
UTP	UNSHIELDED TWISTED PAIR
V	VOLT/VOLTAGE
VT	VOLTAGE TRANSFORMER
W	WATT
WH	WATT HOUR
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Y	WYE

ELECTRICAL GENERAL NOTES

1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED AS THE BASIS OF DESIGN FOR PREPARATION OF DETAILED SHOP DRAWINGS. THE DRAWINGS ARE NOT INTENDED TO SHOW EXACT LOCATIONS, BUT TO DEMONSTRATE THE CONFIGURATION OF MAJOR SYSTEM COMPONENTS AND APPROXIMATE APPLIANCE AND DEVICE LOCATIONS. FIELD VERIFY LOCATIONS OF ALL DEVICES, APPLIANCES, AND SYSTEM COMPONENTS.
2. ALL COMPONENTS SHOWN SHALL BE NEW UNLESS SPECIFICALLY NOTED AS EXISTING.
3. ALL CONDUIT, WIRING, AND EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST STANDARDS OF THE NATIONAL AND STATE ELECTRICAL CODES AND ANY APPLICABLE LOCAL REGULATIONS.
4. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT (INCLUDING ALL BATTERY OPERATED LIFTS, LADDERS, TOOLS, ETC.) REQUIRED TO COMPLETE THE WORK INDICATED ON THE PLANS.
5. THE CONTRACTOR SHALL ADHERE TO ALL OSHA AND USPS SAFETY REQUIREMENTS WHILE WORKING IN THE POSTAL FACILITY. FOLLOW SPECIFIC USPS SAFETY REQUIREMENTS FOR WORK ASSOCIATED WITH LADDERS AND BATTERY–OPERATED LIFTS. WORK AREAS SHALL BE ISOLATED FROM USPS PERSONNEL WITH SAFETY CONES AND YELLOW CAUTION TAPE.
6. ALL WORK SHALL BE PERFORMED DURING NORMAL FACILITY OPERATION. THE CONTRACTOR SHALL USE CAUTION AND MINIMIZE INTERRUPTIONS TO USPS OPERATIONS. ANY DISRUPTIONS TO NORMAL USPS WORK PROCEDURES SHALL BE SCHEDULED AND COORDINATED WITH THE FACILITY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL SYSTEMS OR BUILDING COMPONENTS DAMAGED DURING THE EXECUTION OF THIS WORK. ANY AREAS DAMAGED BY THE CONTRACTOR'S WORK SHALL BE REPAIRED TO MATCH ORIGINAL CONDITIONS. THIS WORK SHALL INCLUDE ALL WALLS, CEILINGS, FLOORS, MASONRY, BRICKWORK, ETC. DAMAGE SHALL INCLUDE, BUT NOT BE LIMITED TO, DESTRUCTION OR DISPOSAL OF ITEMS INTENDED TO REMAIN OR BE SALVAGED.
8. THE CONTRACTOR SHALL NOTE THAT THE BUILDING IS BEING USED BY USPS EMPLOYEES AND CUSTOMERS. ALL WORK SHALL BE PERFORMED IN AS SAFE A MANNER AS POSSIBLE. ALL WORK AREAS SHALL BE MADE SAFE AT THE END OF EACH DAY AND AREAS UNDER CONSTRUCTION SHALL BE THOROUGHLY CLEANED ON A DAILY BASIS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY RELOCATING ALL FURNITURE, SORTING STATIONS, STORAGE CABINETS, RACKS, ETC., AS REQUIRED TO COMPLETE THE WORK INDICATED. COORDINATE ANY RELOCATION WITH THE USPS.
10. ALL WORK SHALL BE COORDINATED WITH THE USPS PRIOR TO ROUGHING.
11. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE U.S.P.S TO MAINTAIN CUSTOMER ACCESS AT ALL TIMES.
12. ALL WORK BEING PERFORMED SHALL NOT IN ANY WAY INTERFERE WITH THE REGULAR OPERATION OF THE U.S.P.S FACILITY. SECURITY SHALL BE MAINTAINED AT ALL TIMES.
13. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FACILITY FOR ACCESS TO AND FROM THE FACILITY.
14. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE BEGINNING ANY WORK OR PURCHASING ANY MATERIAL OR EQUIPMENT.
15. THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS BEFORE SUBMITTING THEIR OFFER. NO EXTRA WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THE ABOVE.
16. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER OF ANY EXISTING CONDITION DISCOVERED DURING DEMOLITION THAT WILL INTERFERE WITH THE NEW WORK.
17. SEE ELECTRICAL SPECIFICATIONS.
18. FIRE ALARM SYSTEM WIRING METHODS:
    A. WORKROOM– RIGID STEEL CONDUIT OR IMC UP TO 10'–0" AFF, MC CABLE ABOVE 10'–0" AFF.
    B. ABOVE ACT CEILING– PLENUM RATED CABLE.
    C. EXPOSED ON WALLS IN FINISHED AREAS (RETAIL, PUBLIC AREAS, OFFICE SUITES, AND CORRIDORS, CONFERENCE AND TRAINING ROOMS, etc.) – TWO PIECE SURFACE METAL RACEWAY.
    D. E–HOUSE – EMT
    E. OTHER AREAS NOT LISTED ABOVE – MC CABLE
19. FIRE ALARM MC CABLE SHALL HAVE A RED IDENTIFIER RUN FOR ENTIRE LENGTH. JUNCTION BOX COVERS AND CONDUIT COUPLINGS FOR ALL FIRE ALARM RACEWAYS SHALL BE PAINTED RED PRIOR TO INSTALLATION.
20. ALL FIRE ALARM CABLE SHALL BE INDEPENDENTLY SUPPORTED WITH NEW HANGERS IN ALL ACCESSIBLE LOCATIONS. FIRE ALARM CABLE SHALL NOT BE RUN IN CONTACT WITH ACT T–BARS OR ATTACHED TO CEILING SUPPORT WIRES.
21. THE EXISTING FIRE ALARM SERVICE COMPANY OF RECORD FOR THE FACILITY IS SIMPLEX–GRINNELL. THE CONTRACTOR SHALL COORDINATE DIRECTLY WITH SIMPLEX–GRINNELL AND PAY ALL CHARGES ASSOCIATED WITH DISCONNECTING, REMOVING, AND TEMPORARY CONNECTIONS TO THE EXISTING FIRE ALARM SYSTEM, INCLUDING, BUT NOT LIMITED TO, TEMPORARY CONNECTIONS, TEMPORARY MONITORING, AND RE–PROGRAMMING.
22. EXISTING BUILDING FIRE PROTECTION SPRINKLER SYSTEM SHALL NOT BE SHUT DOWN OR AFFECTED BY THIS WORK.

CONSTRUCTION PHASING NOTES

1. COORDINATE ALL POWER SHUTDOWNS WITH MAINTENANCE TWO WEEKS IN ADVANCE. OBTAIN WRITTEN APPROVAL 48 HOURS PRIOR TO PERFORMING SHUTDOWNS.
2. DEVELOP A DETAILED CONSTRUCTION PHASING PLAN. MEET WITH A/E, MAINTENANCE AND OTHER FACILITY PERSONNEL AND STAKEHOLDERS TO DISCUSS PHASING OF CONSTRUCTION. THE OVERALL GOALS OF THE PLAN ARE TO LIMIT POWER SHUTDOWNS IN QUANTITY AND DURATION, AS WELL AS ESTABLISH A CLEAR OUTLINE OF WHICH AREAS OF THE PLANT WILL BE SHUT DOWN & FOR HOW LONG. SUBMIT DRAFT CONSTRUCTION PHASING PLAN TO THE A/E AND MAINTENANCE FOR REVIEW EARLY ON IN THE PROJECT.
3. DEVELOP A POWER SYSTEM CUTOVER PLAN THAT INCLUDES AT A MINIMUM THE DAYS/TIMES EACH ELECTRIC SERVICE AND SWITCHBOARD LOAD WILL BE CUTOVER TO THE NEW SWITCHBOARDS AT THE E–HOUSE.
4. CONSIDER PREMIUM TIME FOR SHUTDOWNS INCLUDING WORK TO BE PERFORMED DURING OFF–HOURS AND HOLIDAYS.
5. OVERALL PROPOSED PHASING PLAN:
   –COMPLETE INSTALLATION OF ROOF–MOUNTED ELECTRICAL HOUSE, SWITCHBOARDS, RACEWAY SYSTEMS, AND CONDUCTORS.
   –UTILIZE EXISTING MAIN–TIE–MAIN SWITCHBOARD CONFIGURATIONS TO MAINTAIN POWER TO THE FACILITY WHILE EXISTING SERVICE LATERALS ARE MODIFIED.
   –CUT OVER DOWNSTREAM LOADS TO THE NEW SWITCHBOARDS IN A MANNER SUITABLE TO THE FACILITY'S OPERATING NEEDS.

ELECTRICAL REMOVAL NOTES

1. PROVIDE COVERS FOR UNUSED OPENINGS IN MODIFIED ENCLOSURES AND WIREWAYS.
2. ASSOCIATED WIRING, SUPPORTS, AUXILIARY DEVICES, ETC. ASSOCIATED WITH ITEMS OR EQUIPMENT BEING REMOVED SHALL ALSO BE REMOVED, UNLESS THEY ARE ALSO ASSOCIATED WITH ITEMS/EQUIPMENT REMAINING, IN WHICH CASE THEY SHALL BE MODIFIED AS NECESSARY TO MAINTAIN FUNCTIONALITY WITH THE REMAINING EQUIPMENT. EXISTING CONDUIT CAN BE ABANDONED UNLESS OTHERWISE NOTED.
3. THE ELECTRICAL REMOVAL WORK SHALL BE PERFORMED IN COOPERATION WITH THE OTHER TRADES AND AS SCHEDULED BY THE CONTRACTOR. THE REMOVAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE OVERALL PROJECT PHASING.

ELECTRICAL LEGEND

ONE-LINE DIAGRAM SYMBOLS

- xxAF / yyAT — CIRCUIT BREAKER "xxAF" DENOTES FRAME SIZE, "yyAT" DENOTES TRIP SETTING
- xxAF / yyAT — LOW VOLTAGE DRAWOUT CIRCUIT BREAKER "xxAF" DENOTES FRAME SIZE, "yyAT" DENOTES TRIP SETTING
- xxAS / yyAF — DRAWOUT SWITCH, FUSED "xxAS" DENOTES SWITCH SIZE, "yyAF" DENOTES FUSE RATING
- BUS DUCT
- CAPACITOR
- CONTACT – NORMALLY OPEN (NO)
- CONTACT – NORMALLY CLOSED (NC)
- CT — CURRENT TRANSFORMER CABINET
- AM — ADVANCED METERING. SEE SPECIFICATIONS.
- GFP — GROUND FAULT PROTECTION
- zzA — FUSED CUTOUT – "zzA" DENOTES FUSE RATING
- DISCONNECT SWITCH, UNFUSED
- zzA — DISCONNECT SWITCH AIR BREAK WITH FUSE "zzA" DENOTES FUSE RATING
- zzA — FUSE – "zzA" DENOTES FUSE RATING
- GROUNDING CONNECTION – SYSTEM OR EQUIPMENT
- K# — KIRK KEY INTERLOCK SYSTEM "#" INDICATES RELATED KIRK KEYS
- LIGHTNING ARRESTER AND GROUNDING TO PROTECT ALL PHASES
- NETWORK PROTECTOR
- ST — SHUNT TRIP
- G — GENERATOR
- ATS — TRANSFER SWITCH "ATS" DENOTES AUTOMATIC TRANSFER SWITCH "MTS" DENOTES MANUAL TRANSFER SWITCH
- P1 — PANELBOARD
- TRANSFORMER
- HATCH LINES DENOTE REMOVAL

POWER DISTRIBUTION

- PANELBOARD – 480Y/277V. SURFACE MOUNTED
- PANELBOARD – 480Y/277V. FLUSH MOUNTED
- PANELBOARD – 208Y/120V. SURFACE MOUNTED
- PANELBOARD – 208Y/120V. FLUSH MOUNTED
- SPD — SURGE PROTECTIVE DEVICE
- MCC — MOTOR CONTROL CENTER
- T — DRY TYPE TRANSFORMER
- CT — CURRENT TRANSFORMER CABINET
- M — METER SOCKET
- G — GROUND BUS, LENGTH AS INDICATED
- BSGB — BUILDING SERVICE GROUND BUSBAR
- BUS DUCT, PLUG IN OR FEEDER TYPE, 480Y/277V
- BUS DUCT, PLUG IN OR FEEDER TYPE, 208Y/120V
- BUS DUCT, PLUG IN DISCONNECT

EXISTING EQUIPMENT NOTATION LEGEND

NOTE: NOTATIONS BELOW MAY BE APPLIED TO ANY SYMBOL

XM	EXISTING EQUIPMENT TO REMAIN.
XR	EXISTING EQUIPMENT TO BE REMOVED.
XRL	EXISTING EQUIPMENT TO BE RELOCATED.
XRN	NEW LOCATION OF RELOCATED EXISTING EQUIPMENT.
XRR	EXISTING EQUIPMENT TO BE REMOVED AND REPLACED WITH NEW DEVICE. EXISTING BACKBOX AND ASSOCIATED WIRING TO BE REUSED.
XB	EXISTING EQUIPMENT AND ASSOCIATED WIRING TO BE REMOVED. PROVIDE NEW BLANK PLATE ON EXISTING BOX.
XS	EXISTING EQUIPMENT TO BE REMOVED, STORED, CLEANED, AND REINSTALLED IN EXISTING LOCATION.

MISCELLANEOUS

- 3 / E1.01 — SECTION IDENTIFIER, INDICATING SECTION 3 ON DRAWING E1.01
- 3 / E1.01 — ELEVATION IDENTIFIER, INDICATING ELEVATION 3 ON DRAWING E1.01
- 3 / E1.01 — DETAIL IDENTIFIER, INDICATING DETAIL 3 ON DRAWING E1.01
- # — KEY NOTE TAG
- XXX / # — MECHANICAL EQUIPMENT TAG: "XXX" DENOTES EQUIPMENT TYPE "#" DENOTES EQUIPMENT NUMBER REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE
- # — FEEDER TAG – REFER TO FEEDER SCHEDULE

RACEWAYS

- HOMERUN – DESTINATION & CIRCUIT INDICATED
- CONDUIT CONCEALED IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS
- CONDUIT CONCEALED UNDER FLOOR SLAB
- CONDUIT, UP
- CONDUIT, DOWN
- CONDUIT STUB. TERMINATE WITH BUSHING OR CAP IF UNDERGROUND
- FLEXIBLE CONNECTION TO EQUIPMENT
- J — JUNCTION BOX
- PB — PULL BOX
- CT — CABLE TRAY, SIZE AS INDICATED

SWITCHING AND LIGHTING CONTROLS

- S — SINGLE POLE SWITCH
- SP — SWITCH WITH PILOT LIGHT
- ST — TIMER SWITCH

INTERIOR LIGHTING

- LUMINAIRE: DRAWN TO APPROXIMATE SHAPE AND TO SCALE OR LARGE ENOUGH FOR CLARITY
- A / 2,NL — B / 2,o — STANDARD DESIGNATIONS FOR ALL LUMINAIRES "A" = LUMINAIRE TYPE, REFER TO SPECIFICATION OR SCHEDULE "NL" = UNSWITCHED NIGHT LIGHT "2" = CIRCUIT NUMBER "o" = SWITCH CONTROL
- WALL MOUNTED LUMINAIRE, BRACKET OR SCONCE
- STRIP LUMINAIRE
- SHADING DENOTES LUMINAIRE PROVIDING EMERGENCY ILLUMINATION
- ILLUMINATED EXIT SIGN, SHADING DENOTES NUMBER AND ORIENTATION OF FACES. ARROWS DENOTE DIRECTIONAL CHEVRONS
- EMERGENCY BATTERY UNIT WITH LUMINAIRE HEADS
- REMOTE EMERGENCY LUMINAIRE HEADS
- PC — PHOTOCELL

FIRE ALARM LEGEND

- F — AUDIBLE/VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED "NUMERAL" INDICATES CANDELA RATING
- F — MANUAL PULL STATION
- S — SMOKE DETECTOR
- F — AUDIBLE/VISUAL NOTIFICATION APPLIANCE, CEILING MOUNTED

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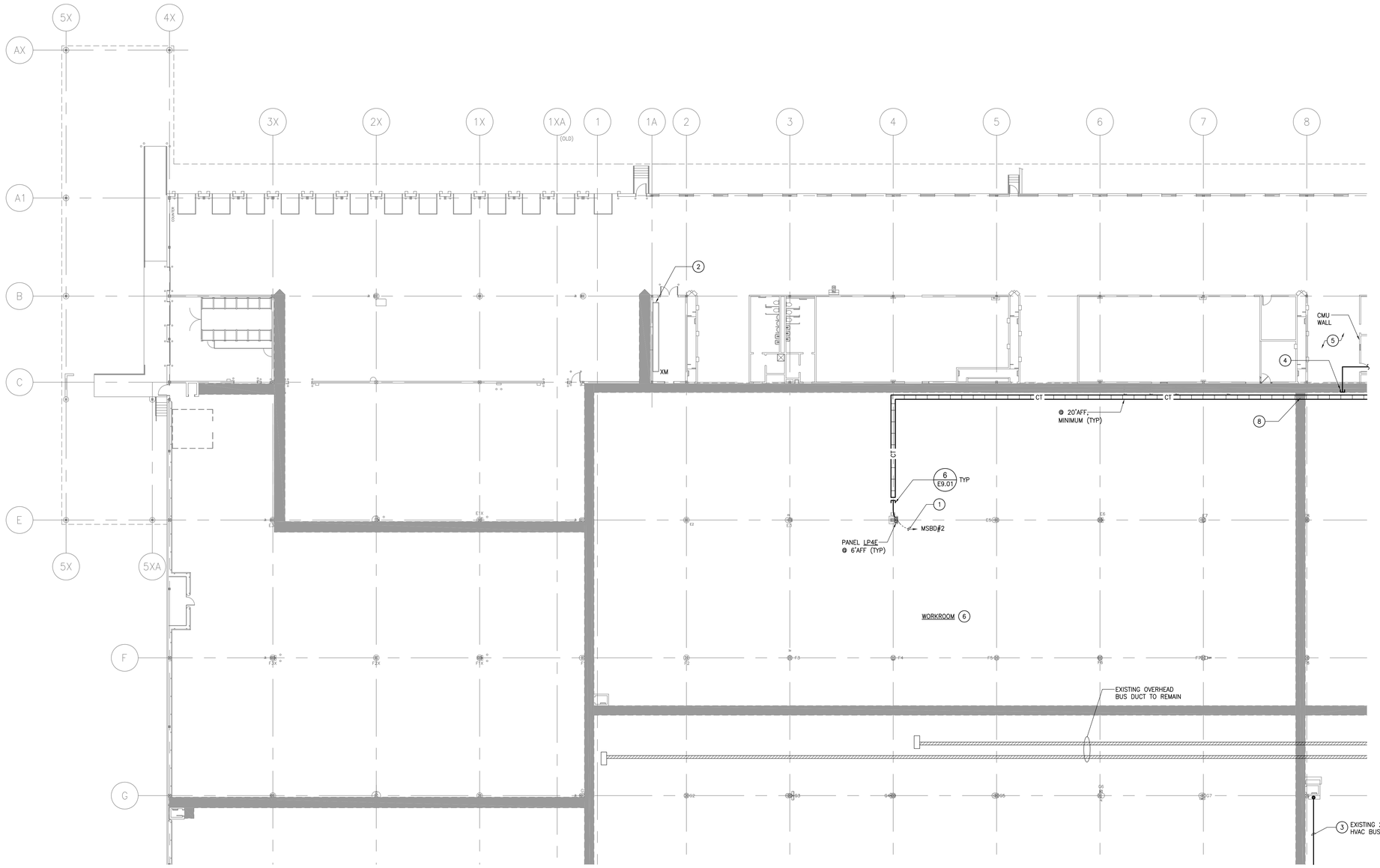
E0.01 ELECTRICAL ABBREVIATIONS, LEGENDS, AND NOTES

SCALE: AS NOTED DATE: 09–15–21
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529

REVISIONS: DATE:



1 FIRST FLOOR PART PLAN - AREA A

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

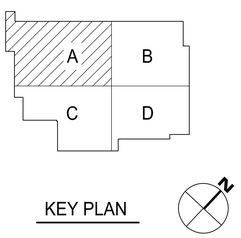
0 1/2" 1"

NOTES

1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, REFER TO DRAWING E0.01.
2. FOR GENERAL PHASING NOTES, REFER TO DRAWING E0.01.
3. SEE DRAWINGS E7.01 THROUGH E7.04 FOR ONE-LINE DIAGRAMS.
4. UNLESS NOTED OTHERWISE, PANELS, TRANSFORMERS, AND BUS DUCT SHOWN ON THIS DRAWING ARE EXISTING TO REMAIN.
5. PROPOSED CABLE TRAY ROUTING IS SCHEMATIC IN NATURE. ACTUAL ROUTING SHALL BE CLOSELY COORDINATED WITH FACILITY MAINTENANCE. CABLE TRAY SHALL BE INSTALLED 20' AFF MINIMUM.
6. FOR ALL EXISTING EQUIPMENT BEING RE-FED, PROVIDE NEW NAME PLATES INDICATING EQUIPMENT NAME AND SOURCE FEED. REMOVE OLD NAME TAGS AND/OR IDENTIFICATION. PROVIDE TEXT "<EQUIPMENT NAME> FED FROM HMDP-X ON ROOF (E-HOUSE)"
7. CUT BACK EXISTING UNDERGROUND FEEDERS TO BE DEMOLISHED AND LABEL AS ABANDONED.

KEY NOTES:

1. NOTED EXISTING FEEDERS RUN BELOW SLAB SHALL BE ABANDONED AND PANELBOARDS RE-FED WITH NEW FEEDERS VIA NEW OVERHEAD RACEWAY. DISCONNECTION OF EXISTING PANELBOARD FEEDERS SHALL BE PART OF A PHASED CUT-OVER PLAN DEVELOPED BY THE CONTRACTOR. SEE DRAWING E0.01.
2. EXISTING SWITCHBOARD TO REMAIN.
3. NOTED HVAC BUS DUCT FEEDER CONDUCTORS SHALL BE DEMOLISHED. CONDUITS SHALL BE ABANDONED. SEE DRAWINGS E3.03 AND E3.04 FOR CONTINUATION.
4. NOTED TC#11 NEW FEEDER (FROM OVERHEAD) SHALL BE ROUTED ABOVE THE LOOKOUT GALLERY AND DOWN INTO ACCESSIBLE CEILING SPACE IN THE ELECTRICAL ROOM AND DROP DOWN INTO THE EQUIPMENT.
5. NOTED VESTIBULE HAS A T-GRID CEILING @ 10'AFF.
6. WORKROOM CEILING IS OPEN TO STRUCTURE APPROXIMATELY 25' AFF.
7. NOT USED.
8. NOTED LOCATIONS HAVE CABLE TRAY WHICH WILL PENETRATE THE FALSE WALL ABOVE THE LOOKOUT GALLERY. THE PANELING IS ASSUMED TO BE AN ASBESTOS-CONTAINING MATERIAL. PROVIDE ABATEMENT AS REQUIRED.



KEY PLAN

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E3.01 FIRST FLOOR PLAN - AREA A

SCALE: AS NOTED DATE: 09-15-21
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529

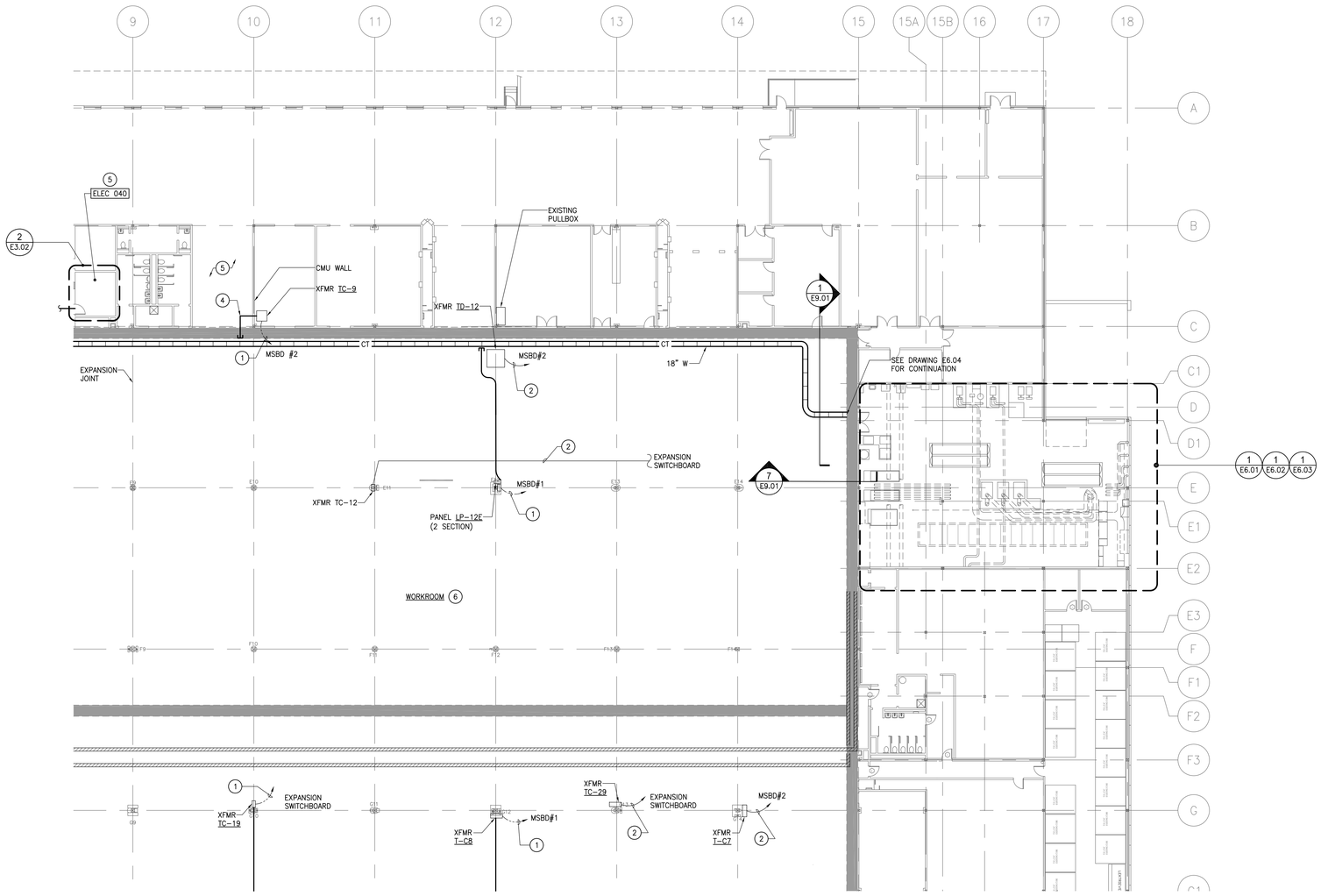
REVISIONS: DATE:

NOTES

1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, REFER TO DRAWING E0.01.
2. FOR GENERAL PHASING NOTES, REFER TO DRAWING E0.01.
3. SEE DRAWINGS E7.01 THROUGH E7.04 FOR ONE-LINE DIAGRAMS.
4. UNLESS NOTED OTHERWISE, PANELS, TRANSFORMERS, AND BUS DUCT SHOWN ON THIS DRAWING ARE EXISTING TO REMAIN.
5. PROPOSED CABLE TRAY ROUTING IS SCHEMATIC IN NATURE. ACTUAL ROUTING SHALL BE CLOSELY COORDINATED WITH FACILITY MAINTENANCE. CABLE TRAY SHALL BE INSTALLED 20' AFF MINIMUM.
6. FOR ALL EXISTING EQUIPMENT BEING RE-FED, PROVIDE NEW NAME PLATES INDICATING EQUIPMENT NAME AND SOURCE FEED. REMOVE OLD NAME TAGS AND/OR IDENTIFICATION. PROVIDE TEXT "<EQUIPMENT NAME> FED FROM HMDP-X ON ROOF (E-HOUSE)"
7. CUT BACK EXISTING UNDERGROUND FEEDERS TO BE DEMOLISHED AND LABEL AS ABANDONED.

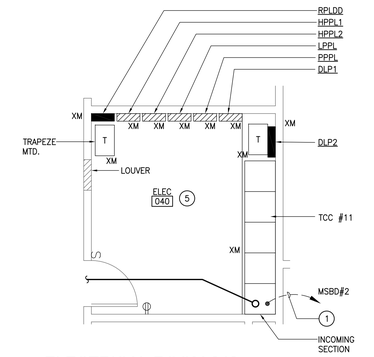
KEY NOTES:

1. NOTED EXISTING FEEDERS RUN BELOW SLAB SHALL BE ABANDONED AND PANELBOARDS RE-FED WITH NEW FEEDERS VIA NEW OVERHEAD RACEWAY. DISCONNECTION OF EXISTING PANELBOARD FEEDERS SHALL BE PART OF A PHASED CUT-OVER PLAN DEVELOPED BY THE CONTRACTOR. SEE DRAWING E0.01.
2. NOTED EXISTING FEEDERS IN THE WORKROOM HOMERUN TO THE EXISTING SWITCHBOARD IN THE MECHANICAL/ELECTRICAL ROOM. THESE FEEDERS SHALL BE INTERCEPTED AND EXTENDED TO NEW SWITCHBOARDS PER DRAWING E6.01 KEY NOTE 2.
3. NOT USED
4. NOTED XFMR TC-9 NEW FEEDER (FROM OVERHEAD) SHALL BE ROUTED ABOVE THE LOOKOUT GALLERY AND DOWN INTO ACCESSIBLE CEILING SPACE. PENETRATE CMU WALL AND DROP INTO THE EQUIPMENT.
5. NOTED VESTIBULE AND ROOM 040 HAVE T-GRID CEILINGS @ 10'AFF.
6. WORKROOM CEILING IS OPEN TO STRUCTURE APPROXIMATELY 25' AFF.



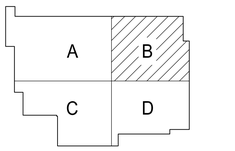
1 FIRST FLOOR PART PLAN - AREA B

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



2 ELECTRICAL ROOM 040 PART PLAN

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



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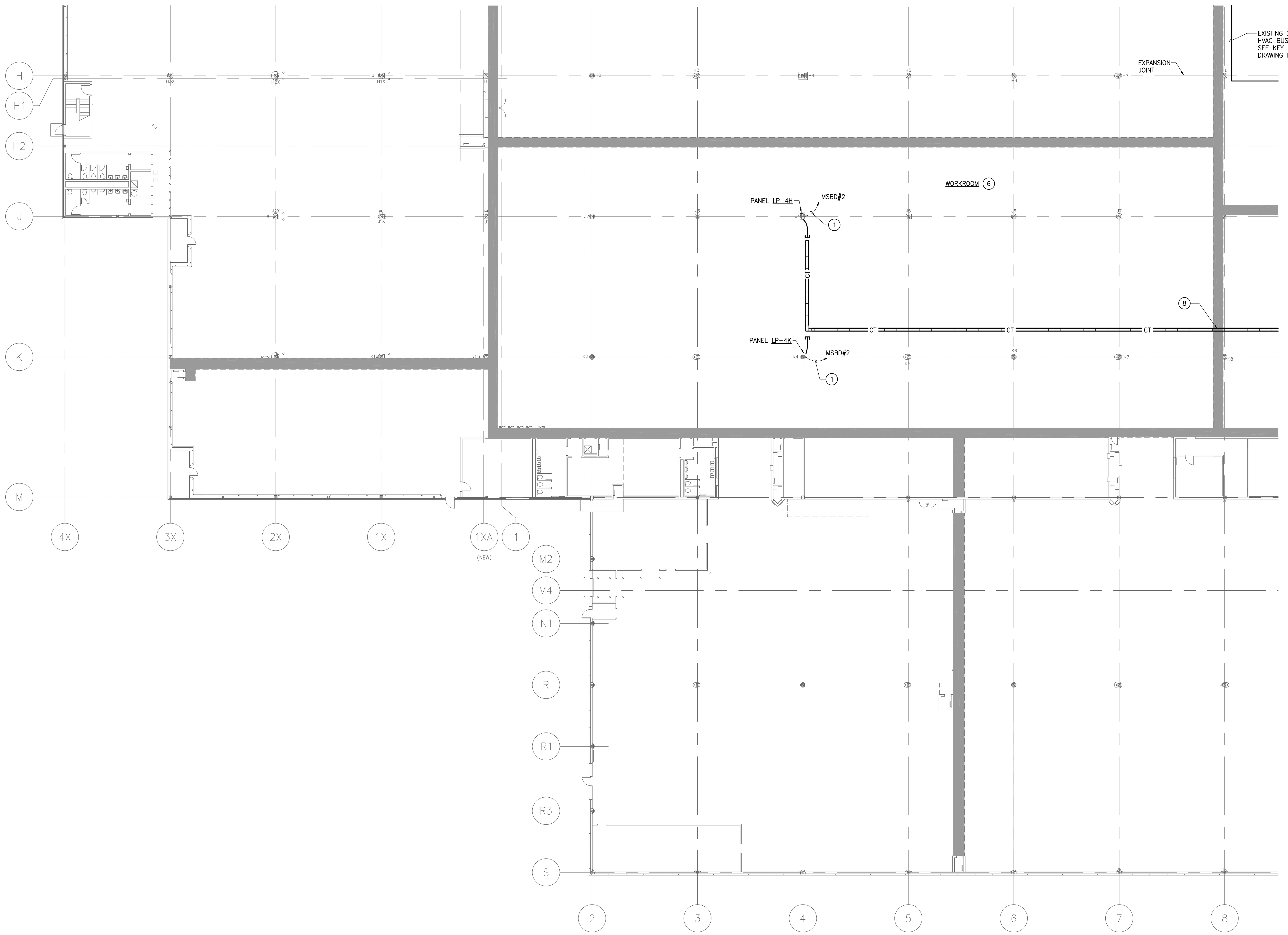
E3.02 FIRST FLOOR PLAN - AREA B

SCALE: AS NOTED
DATE: 09-15-21
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529

REVISIONS: DATE:



1 FIRST FLOOR PART PLAN - AREA C

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

NOTES

1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, REFER TO DRAWING E0.01.
2. FOR GENERAL PHASING NOTES, REFER TO DRAWING E0.01.
3. SEE DRAWINGS E7.01 THROUGH E7.04 FOR ONE-LINE DIAGRAMS.
4. UNLESS NOTED OTHERWISE, PANELS, TRANSFORMERS, AND BUS DUCT SHOWN ON THIS DRAWING ARE EXISTING TO REMAIN.
5. PROPOSED CABLE TRAY ROUTING IS SCHEMATIC IN NATURE. ACTUAL ROUTING SHALL BE CLOSELY COORDINATED WITH FACILITY MAINTENANCE. CABLE TRAY SHALL BE INSTALLED 20' AFF MINIMUM.
6. FOR ALL EXISTING EQUIPMENT BEING RE-FED, PROVIDE NEW NAME PLATES INDICATING EQUIPMENT NAME AND SOURCE FEED. REMOVE OLD NAME TAGS AND/OR IDENTIFICATION. PROVIDE TEXT "<EQUIPMENT NAME> FED FROM HMDP-X ON ROOF (E-HOUSE)"
7. CUT BACK EXISTING UNDERGROUND FEEDERS TO BE DEMOLISHED AND LABEL AS ABANDONED.

KEY NOTES:

(1) NOTED EXISTING FEEDERS RUN BELOW SLAB SHALL BE ABANDONED AND PANELBOARDS RE-FED WITH NEW FEEDERS VIA NEW OVERHEAD RACEWAY. DISCONNECTION OF EXISTING PANELBOARD FEEDERS SHALL BE PART OF A PHASED CUT-OVER PLAN DEVELOPED BY THE CONTRACTOR. SEE DRAWING E0.01.

(2) NOT USED.

(3) NOT USED.

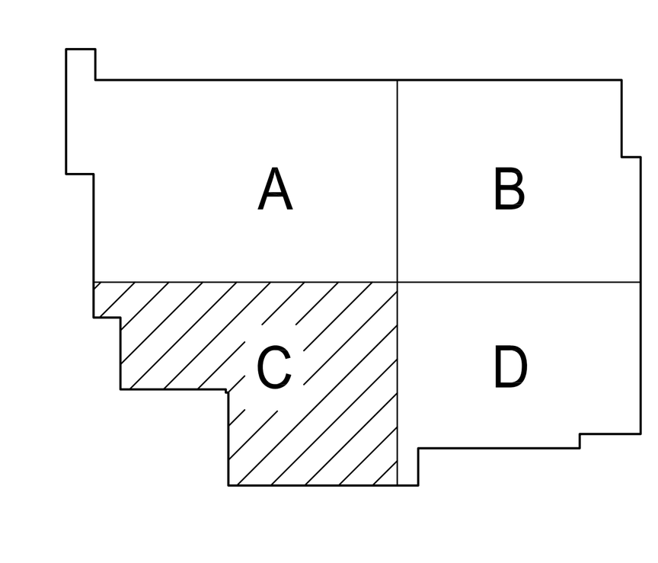
(4) NOT USED.

(5) NOT USED.

(6) WORKROOM CEILING IS OPEN TO STRUCTURE APPROXIMATELY 25'AFF.

(7) NOT USED.

(8) NOTED LOCATIONS HAVE CABLE TRAY WHICH WILL PENETRATE THE FALSE WALL ABOVE THE LOOKOUT GALLERY THE PANELING IS ASSUMED TO BE AN ASBESTOS-CONTAINING MATERIAL. PROVIDE ABATEMENT AS REQUIRED.



KEY PLAN

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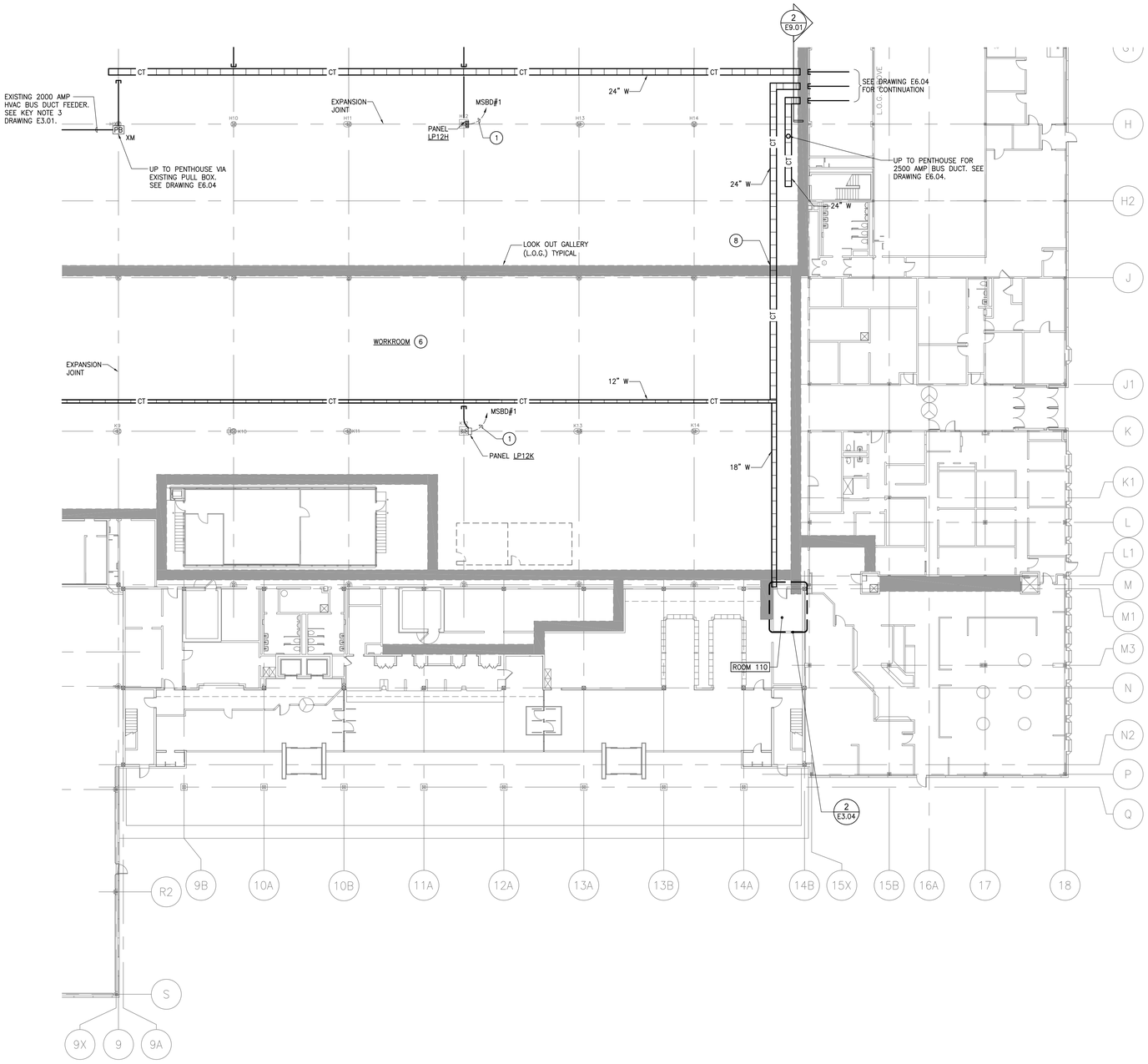
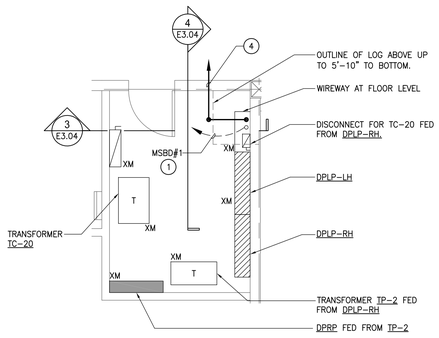
E3.03 FIRST FLOOR PLAN - AREA C

SCALE: AS NOTED DATE: 09-15-21
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529

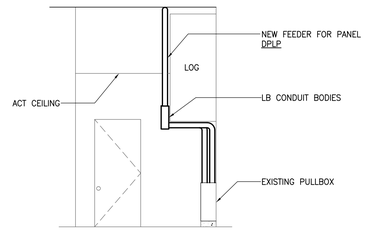
REVISIONS: DATE:



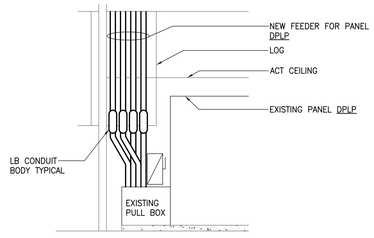
1 FIRST FLOOR PART PLAN - AREA D
SCALE: 1/16"=1'-0"



2 ELECTRICAL ROOM 110 PART PLAN
SCALE: 1/4"=1'-0"



3 ELECTRIC ROOM 110 ELEVATION
SCALE: 1/4"=1'-0"



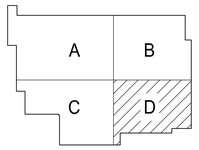
4 ELECTRIC ROOM 110 ELEVATION
SCALE: 1/4"=1'-0"

NOTES

1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, REFER TO DRAWING E0.01.
2. FOR GENERAL PHASING NOTES, REFER TO DRAWING E0.01.
3. SEE DRAWINGS E7.01 THROUGH E7.04 FOR ONE-LINE DIAGRAMS.
4. UNLESS NOTED OTHERWISE, PANELS, TRANSFORMERS, AND BUS DUCT SHOWN ON THIS DRAWING ARE EXISTING TO REMAIN.
5. PROPOSED CABLE TRAY ROUTING IS SCHEMATIC IN NATURE. ACTUAL ROUTING SHALL BE CLOSELY COORDINATED WITH FACILITY MAINTENANCE. CABLE TRAY SHALL BE INSTALLED 20' AFF MINIMUM.
6. FOR ALL EXISTING EQUIPMENT BEING RE-FED, PROVIDE NEW NAME PLATES INDICATING EQUIPMENT NAME AND SOURCE FEED. REMOVE OLD NAME TAGS AND/OR IDENTIFICATION. PROVIDE TEXT "<EQUIPMENT NAME> FED FROM HMDP-X ON ROOF (E-HOUSE)"
7. CUT BACK EXISTING UNDERGROUND FEEDERS TO BE DEMOLISHED AND LABEL AS ABANDONED.

KEY NOTES:

1. NOTED EXISTING FEEDERS RUN BELOW SLAB SHALL BE ABANDONED AND PANELBOARDS RE-FED WITH NEW FEEDERS VIA NEW OVERHEAD RACEWAY. DISCONNECTION OF EXISTING PANELBOARD FEEDERS SHALL BE PART OF A PHASED CUT-OVER PLAN DEVELOPED BY THE CONTRACTOR. SEE DRAWING E0.01.
2. NOT USED.
3. NOT USED.
4. NOTED NEW FEEDER (FROM OVERHEAD) SHALL BE ROUTED ABOVE THE LOOKOUT GALLERY AND DOWN INTO ACCESSIBLE CEILING SPACE IN ROOM 110 AND DROP INTO THE EQUIPMENT.
5. NOT USED.
6. WORKROOM CEILING IS OPEN TO STRUCTURE APPROXIMATELY 21'-1" AFF.
7. NOT USED.
8. NOTED LOCATIONS HAVE CABLE TRAY WHICH WILL PENETRATE THE FALSE WALL ABOVE THE LOOKOUT GALLERY THE PANELING IS ASSUMED TO BE AN ASBESTOS-CONTAINING MATERIAL. PROVIDE ABATEMENT AS REQUIRED.



KEY PLAN

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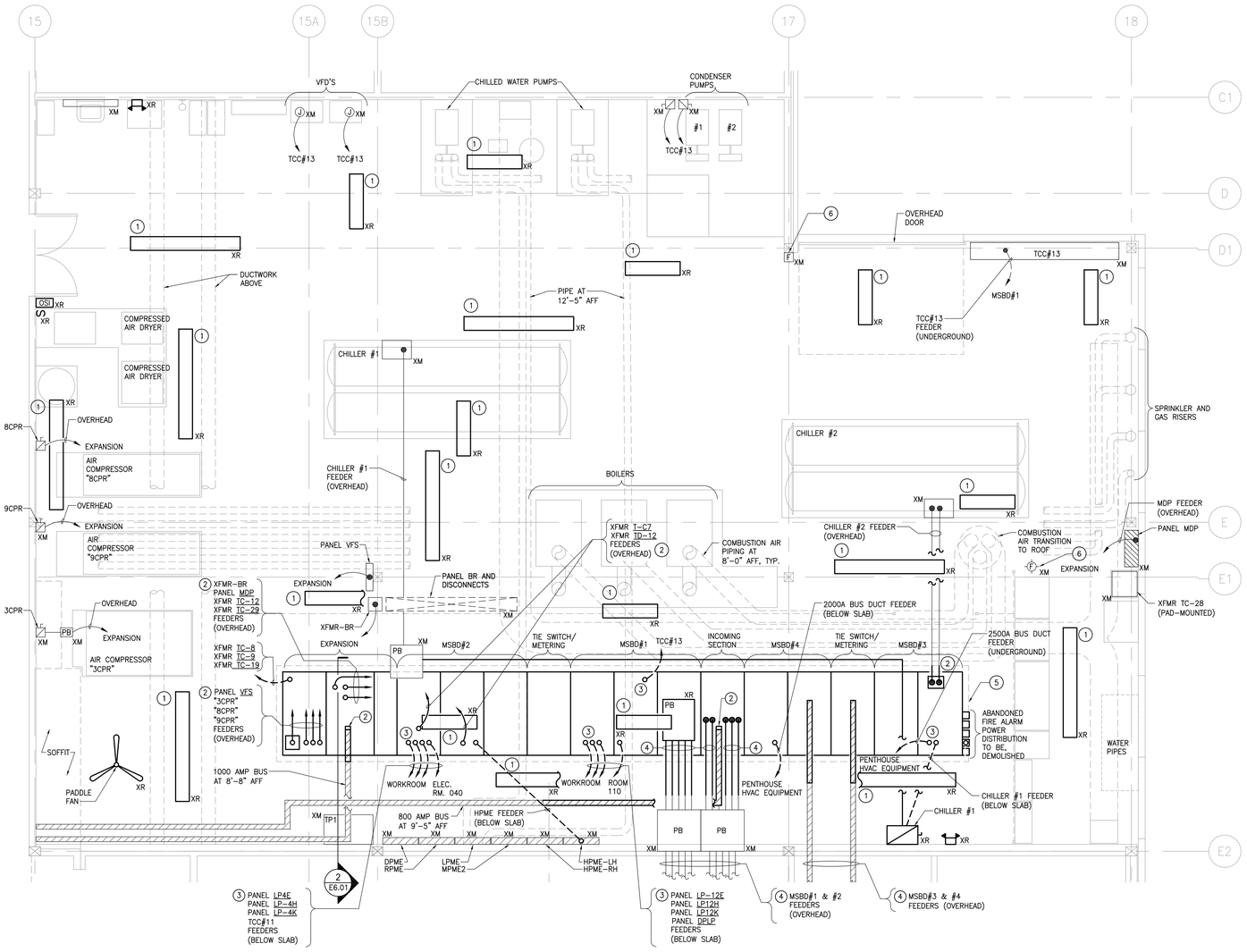
E3.04 FIRST FLOOR PLAN - AREA D

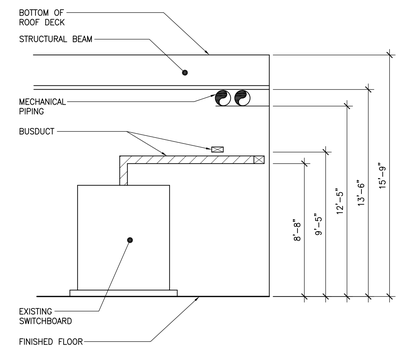
SCALE: AS NOTED
DATE: 09-15-21
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: 843529

REVISIONS: DATE:



MECHANICAL / ELECTRICAL ROOM
POWER PLAN - REMOVAL

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



MECHANICAL / ELECTRICAL ROOM
PARTIAL SECTION

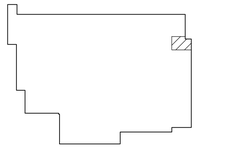
2 SCALE: 1/4"=1'-0"

NOTES

1. FOR ELECTRICAL LEGEND, PHASING NOTES AND GENERAL NOTES, REFER TO DRAWING E0.01.
2. DEMOLISH ALL CONDUITS, WIRE, BOXES, STRAPS, MOUNTING HARDWARE, ETC. WHICH ARE NO LONGER UTILIZED. SEE ALSO KEY NOTE 1.
3. THE LOCATIONS/HEIGHTS OF EQUIPMENT/SYSTEMS ABOVE FINISHED FLOOR ARE APPROXIMATE. DO NOT RELY ON LISTED HEIGHTS FOR CONSTRUCTION. IN ADDITION, NOT ALL EQUIPMENT/SYSTEMS PRESENT ARE SHOWN ON THIS DRAWING. FIELD VERIFY HEIGHTS AND LOCATIONS PRIOR TO PERFORMING THE WORK.
4. DEMOLISH ALL SWITCHBOARD SECTIONS AND CONCRETE PAD.
5. SEE PARTIAL ONE-LINE DIAGRAM ON DRAWINGS E7.01 TO E7.04.

KEY NOTES:

1. EXISTING FLUORESCENT LUMINAIRE TO BE REMOVED. MAINTAIN EXISTING BRANCH CIRCUIT WIRING FOR EXTENSION TO NEW LUMINAIRES.
2. NOTED BUS DUCT AND CONDUIT EXITING THE EXISTING SWITCHBOARDS OVERHEAD FEED DOWNSTREAM LOADS IN THE WORKROOM AND THE MECHANICAL/ELECTRICAL ROOM. INTERCEPT FROM ABOVE AND INSTALL JUNCTION BOXES AND CABLE TAP BOXES SUITABLE TO EXTEND THE CIRCUITS TO THE NEW SWITCHBOARDS.
3. NOTED CONDUITS ROUTED UNDERGROUND FROM THE EXISTING SWITCHBOARDS FEED DOWNSTREAM LOADS IN THE WORKROOM AND HVAC PENTHOUSE. UPON COMPLETION OF THE POWER CUT-OVER, THESE FEEDERS SHALL BE CUT 6 INCHES BELOW FINISHED FLOOR AND ABANDONED. PATCH CONCRETE TO A FINISHED LEVEL SURFACE.
4. NOTED BUS DUCT AND CONDUITS ENTERING THE EXISTING SWITCHBOARDS ARE THE MAIN ELECTRICAL FEEDERS. REMOVE AS SHOWN. EXTEND FEEDERS TO NEW SWITCHBOARDS. IN ADDITION, MAINTAIN EXISTING FEED TO EXISTING SWITCHBOARDS UNTIL POWER CUTOVER IS COMPLETE. SEE THE ONE-LINE DIAGRAMS.
5. EXISTING CONCRETE HOUSEKEEPING PAD TO REMAIN. ABANDONED CONDUIT STUBS SHALL BE GROUND SMOOTH AND FILLED WITH GROUT MIN 6".
6. TIE NEW E-HOUSE INITIATION/NOTIFICATION DEVICES INTO THE EXISTING FIRE ALARM SYSTEM AT NOTED EXISTING DEVICES. SEE PARTIAL FIRE ALARM SYSTEM RISER DIAGRAM ON E8.01.



KEY PLAN

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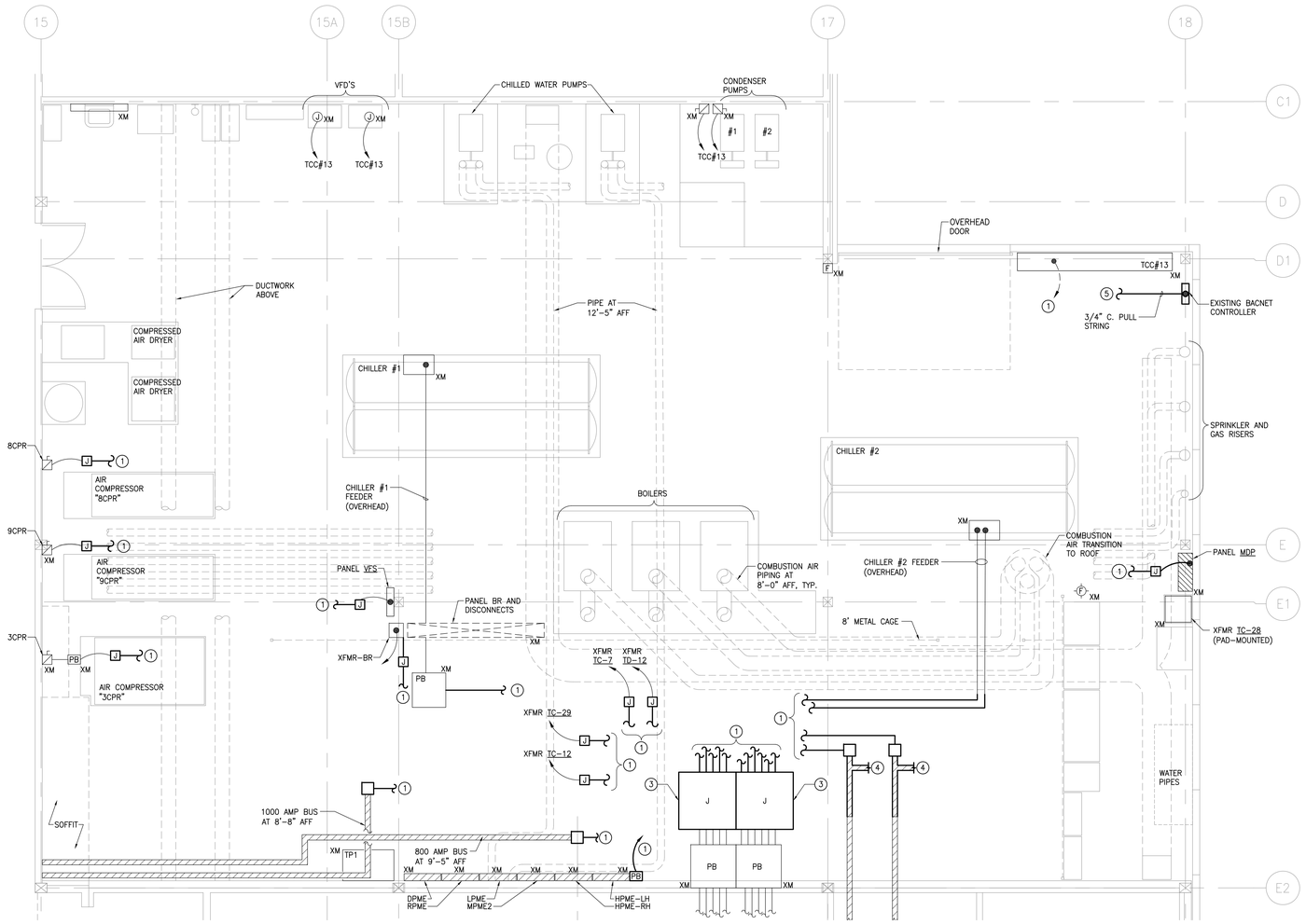
E6.01 MECHANICAL / ELECTRICAL ROOM POWER & LIGHTING PLAN - REMOVAL

SCALE: AS NOTED DATE: 09-15-21 REVISIONS: DATE:
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529



MECHANICAL / ELECTRICAL ROOM
POWER PLAN - NEW WORK

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

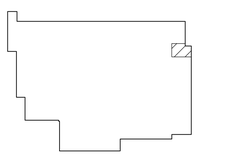
0 1/2" 1"

NOTES

1. FOR ELECTRICAL LEGEND, PHASING NOTES AND GENERAL NOTES, REFER TO DRAWING E0.01.
2. BUS DUCT, FUSED SWITCHES, AHU'S, TCC'S, ETC. IN THE PENTHOUSE ARE EXISTING TO REMAIN.
3. FOR ALL EXISTING EQUIPMENT BEING RE-FED, PROVIDE NEW NAME PLATES INDICATING EQUIPMENT NAME AND SOURCE FEED. REMOVE OLD NAME TAGS AND/OR IDENTIFICATION. PROVIDE TEXT "<EQUIPMENT NAME> FED FROM HMDP-X ON ROOF (E-HOUSE)".
4. SEE PARTIAL ONE-LINE DIAGRAMS ON DRAWINGS E7.01 TO E7.04.

KEY NOTES:

1. PROVIDE/EXTEND NEW CIRCUITS TO THE ROOF-MOUNTED E-HOUSE. SEE ONE-LINE DIAGRAMS FOR FEEDER QUANTITY/SIZES.
2. NOT USED.
3. PROVIDE NOTED JUNCTION BOXES TO MAINTAIN EXISTING FEED TO SWITCHBOARDS.
4. PROVIDE TEMPORARY BUS DUCT CONNECTION TO EXISTING SWITCHBOARDS.
5. PROVIDE CONDUIT WITH PULL STRING TO E-HOUSE FOR INSTALLATION OF BACNET WIRING BY DIV 25. COORDINATE ROUTING WITH GENERAL CONTRACTOR AND DIV 25.



KEY PLAN

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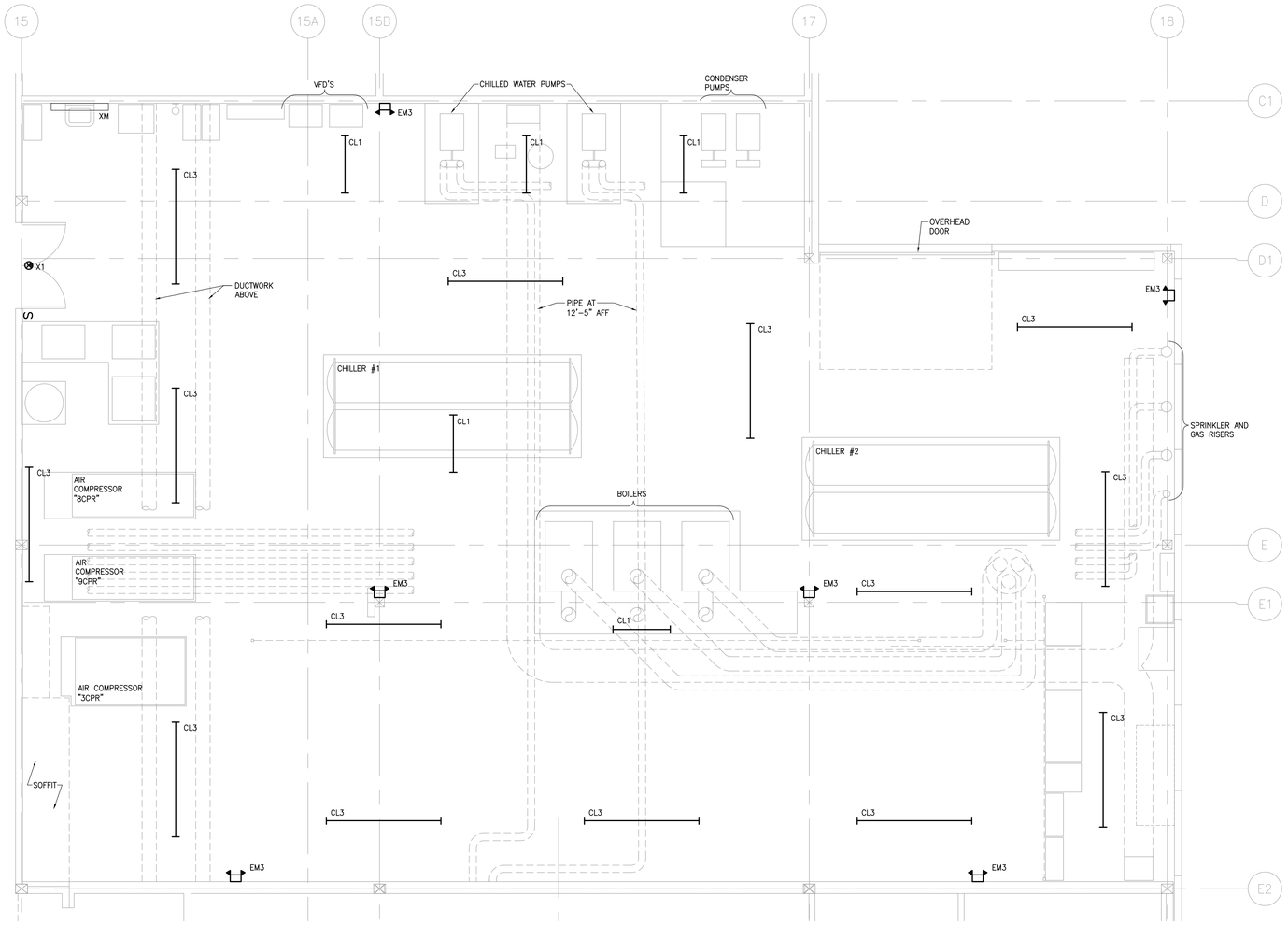
E6.02 MECHANICAL / ELECTRICAL ROOM POWER PLAN - NEW WORK

SCALE: AS NOTED DATE: 09-15-21 REVISIONS: DATE:
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529



MECHANICAL / ELECTRICAL ROOM
LIGHTING PLAN - NEW WORK

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

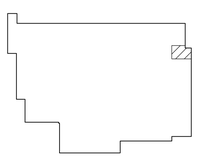
0 1/2" 1"

NOTES

1. FOR ELECTRICAL LEGEND, PHASING NOTES AND GENERAL NOTES, REFER TO DRAWING E0.01.
2. FOR CLARITY, NOT ALL CEILING SUSPENDED EQUIPMENT IS SHOWN.
3. EMERGENCY LUMINAIRES AND EXIT SIGNS SHALL BE WIRED AHEAD OF SWITCHING.
4. EXISTING BRANCH CIRCUIT SHALL BE UTILIZED TO SERVE NEW LUMINAIRES IN THE MECHANICAL ROOM.

KEY NOTES:

(1) CHAIN SUSPEND LUMINAIRES AT 10'-0" ABOVE FINISHED FLOOR. CEILING IS OPEN TO STRUCTURE APPROXIMATELY 15'-9" TO BOTTOM OF METAL DECK.



KEY PLAN

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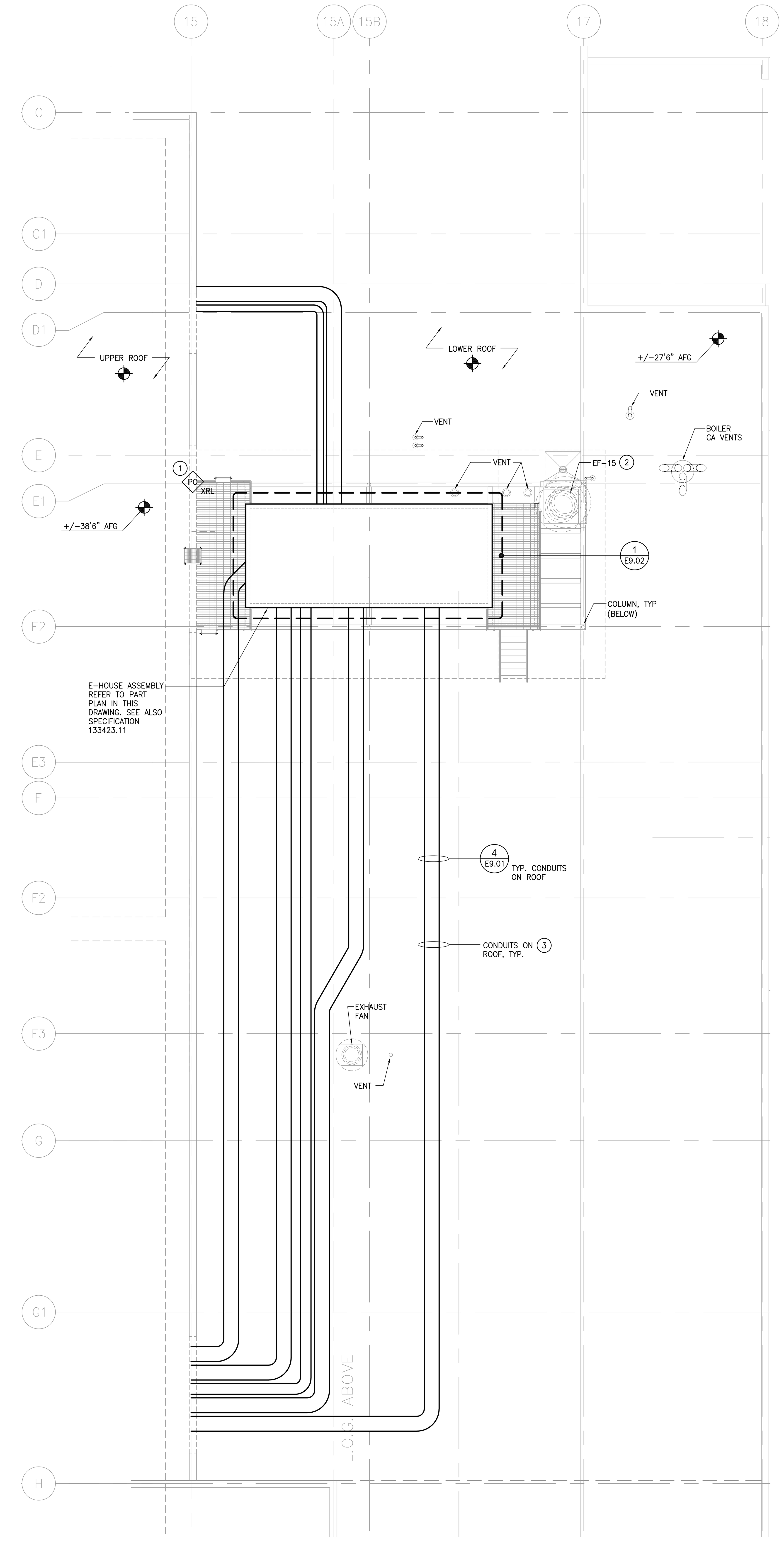
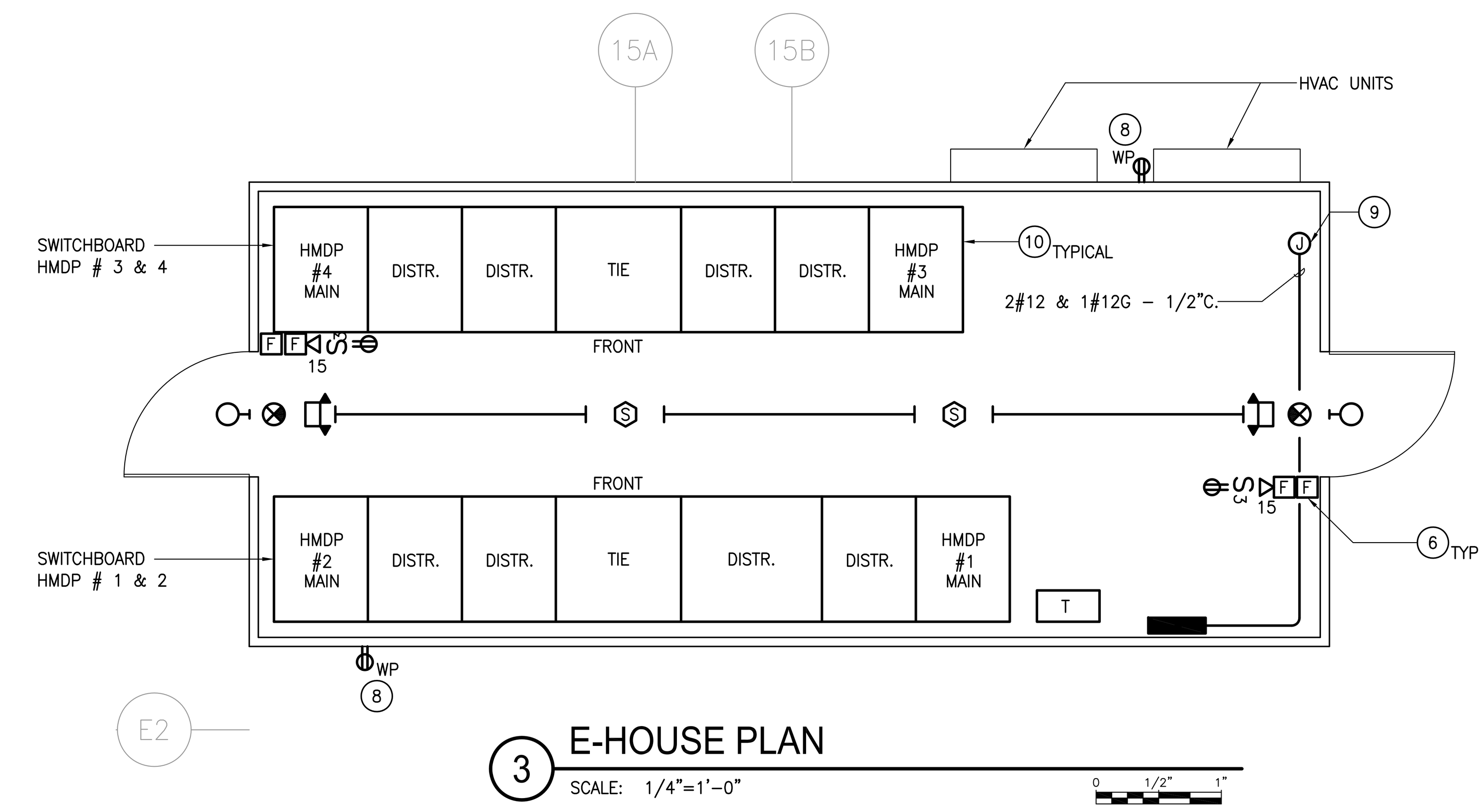
E6.03 MECHANICAL / ELECTRICAL ROOM LIGHTING PLAN - NEW WORK

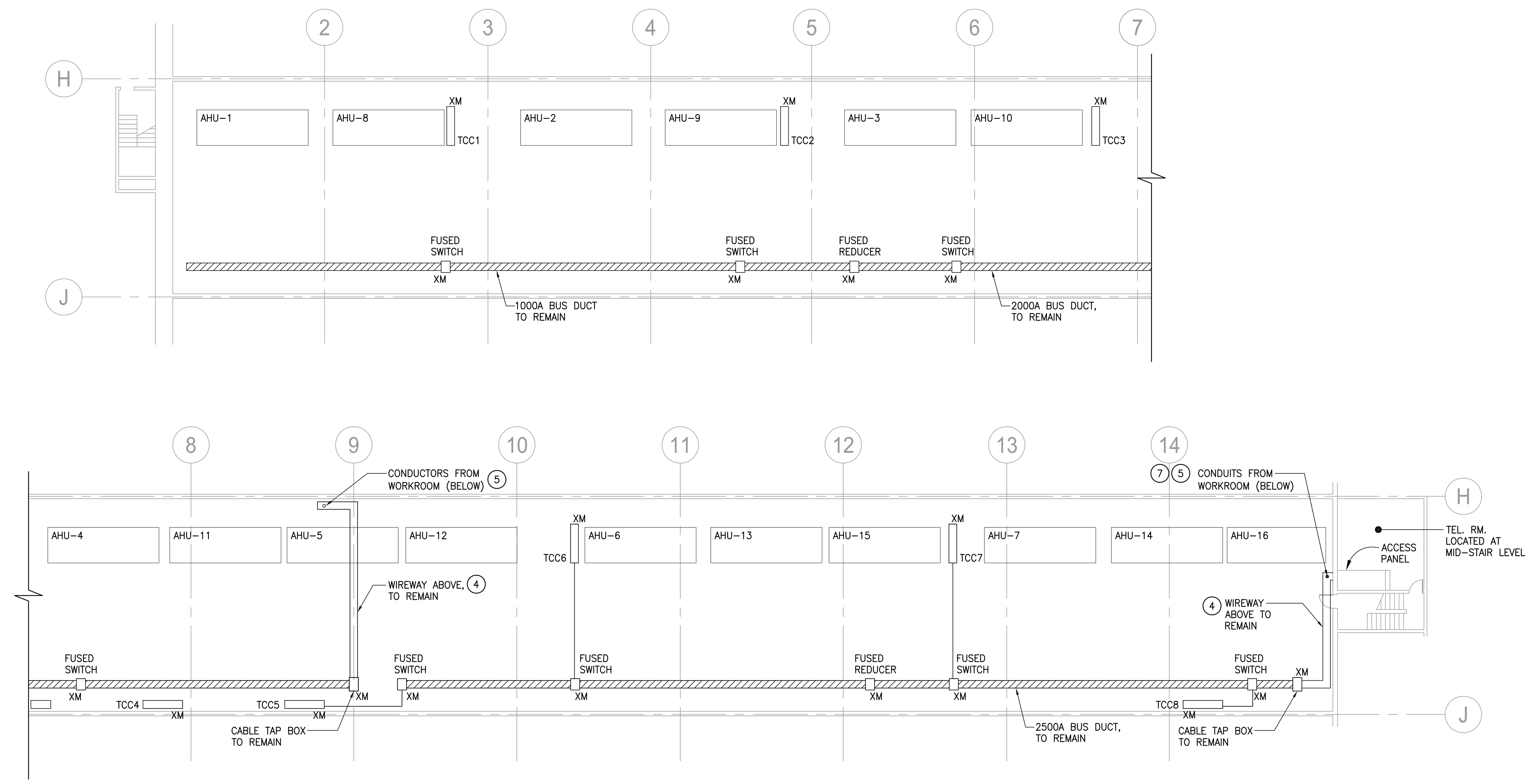
SCALE: AS NOTED DATE: 09-15-21 REVISIONS: DATE:
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: BA3529



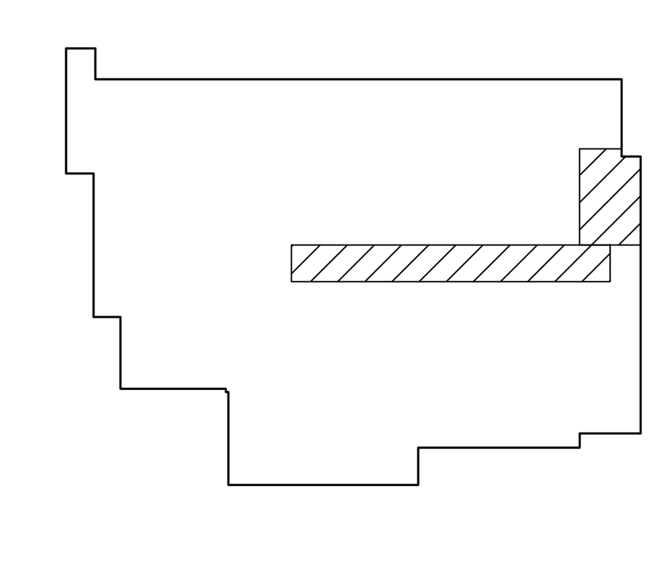
1 PARTIAL ROOF PLAN
SCALE: 1/8"=1'-0"



3 E-HOUSE PLAN
SCALE: 1/4"=1'-0"



2 PENTHOUSE LEVEL POWER PLAN
SCALE: 1/16"=1'-0"



KEY PLAN

NOTES

1. FOR ELECTRICAL LEGEND, PHASING NOTES AND GENERAL NOTES, REFER TO DRAWING E0.01.

KEY NOTES

1. NOTED PHOTOCELL IS LOCATED ABOVE ROOF ON CONDUIT. THE PHOTOCELL SHALL BE RELOCATED OUT OF THE FOOTPRINT OF THE NEW GRATING FOR THE E-HOUSE. PROVIDE NEW RACEWAY AND CABLING AS REQUIRED. IT IS UNKNOWN WHERE THE PHOTOCELL CABLING IS TERMINATED WITHIN THE BUILDING. ASSUME 200 FEET OF NEW CABLING FOR BIDDING PURPOSES.
2. DISCONNECT AND MAKE SAFE EXISTING EXHAUST FAN FOR RELOCATION BY DIVISION 23. INTERCEPT EXISTING BRANCH CIRCUIT WIRING AND EXTEND TO NEW FAN LOCATION. COORDINATE EXACT REQUIREMENTS WITH DIVISION 23 PRIOR TO ROUGHING.
3. CONDUIT ROUTING ON THE ROOF IS SCHEMATIC IN NATURE. ACTUAL ROUTING SHALL BE DETERMINED IN THE FIELD. REVIEW CONDUIT ARRANGEMENTS, SUPPORT SYSTEM, ELEVATIONS, AND ROUTING CAREFULLY TO ENSURE SMOOTH TRANSITIONS INTO THE BUILDING AND THE E-HOUSE SWITCHBOARDS, LIMITING UNNECESSARY BENDS. SEE DETAIL 4 ON DRAWING E9.01 FOR REQUIREMENTS INCLUDING SHOP DRAWING SUBMITTALS.
4. REMOVE EXISTING HVAC CONDUCTORS FROM EXISTING WIREWAYS AT THE HVAC PENTHOUSE.
5. ROUTE NOTED HVAC BUS DUCT CONDUCTORS IN EXISTING WIREWAY AND TERMINATE TO EXISTING CABLE TAP BOXES.
6. PROVIDE NOTED FIRE ALARM SYSTEM DEVICES/CABLING WITHIN E-HOUSE. REFER TO FIRE ALARM RISER DIAGRAM ON E8.01.
7. CORE THROUGH CONCRETE DECK FROM THE WORKROOM TO THE PENTHOUSE AND ENTER EXISTING WIREWAY. MODIFY THE WIREWAY FOR BOTTOM ENTRY. PROVIDE FIRESTOPPING PER THE SPECIFICATIONS.
8. PROVIDE CAST ALUMINUM, LOCKING, WEATHERPROOF, IN-USE COVERS FOR NOTED EXTERIOR RECEPTACLES AT THE THE E-HOUSE.
9. FOR NEW BAS GATEWAY.
10. SWITCHBOARDS, PANELBOARD, TRANSFORMER, LIGHTING, WIRING DEVICES, HVAC AND ASSOCIATED BRANCH CIRCUIT WIRING SHOWN IS PROVIDED BY E-HOUSE MANUFACTURER. FIRE ALARM, BAS COMPONENTS AND ASSOCIATED WIRING SHALL BE PROVIDED BY CONTRACTOR AND FIELD WIRED AFTER INSTALLATION OF E-HOUSE. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.

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REVISIONS: | DATE:

E6.04 ELECTRICAL PART PLANS
SCALE: AS NOTED DATE: 09-15-21
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529

NOTES

1. FOR ELECTRICAL LEGEND, PHASING NOTES AND GENERAL NOTES, REFER TO DRAWING E0.01.
2. REMOVAL SHOWN ON THIS PLAN SHALL BE SEQUENCED IN ACCORDANCE WITH THE APPROVED CUTOVER PLAN. SEE DRAWING E0.01.
3. PRIOR TO PURCHASING NEW SWITCHBOARD EQUIPMENT, UTILIZE A CIRCUIT TRACER TO FIELD VERIFY ALL END LOADS ORIGINATING FROM THE EXISTING SWITCHBOARDS MATCH WHAT IS SHOWN ON THE ONE-LINE DIAGRAMS. NOTIFY THE A/E OF OF ANY DISCREPANCIES. SUBMIT SHOP DRAWINGS WITH ANY REQUIRED CHANGES TO EQUIPMENT LAYOUTS, AND INCLUDE A WRITTEN DESCRIPTION OF THE CHANGES. REFER TO DRAWINGS E7.01 AND E7.02.

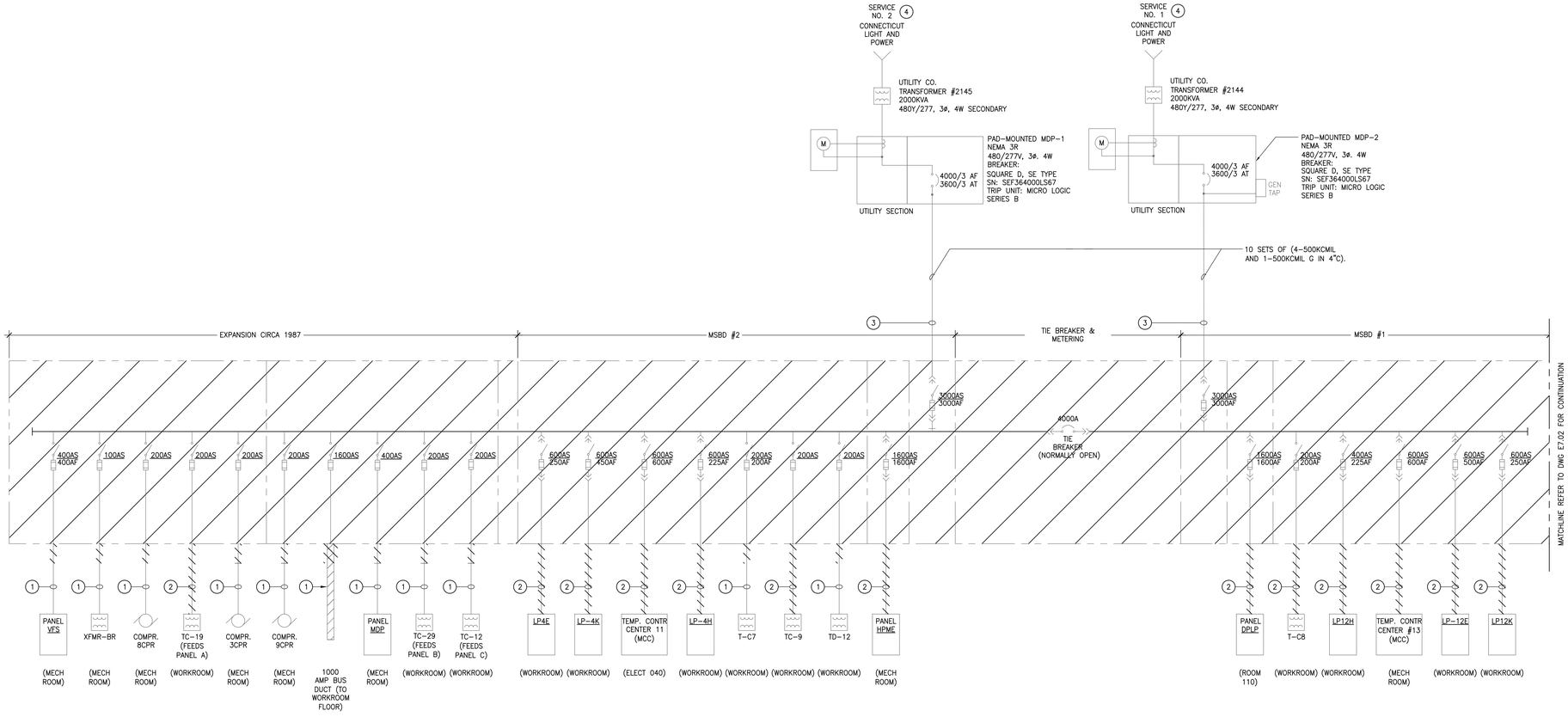
KEY NOTES:

(1) NOTED FEEDERS ARE ROUTED OVERHEAD. INTERCEPT IN AN ACCESSIBLE LOCATION IN THE ELECTRICAL/MECHANICAL ROOM AND INSTALL A JUNCTION BOX. EXTEND FEEDER TO NEW SWITCHBOARDS.

(2) NOTED FEEDERS ARE ROUTED BELOW SLAB. PROVIDE NEW OVERHEAD FEEDERS IN ACCORDANCE WITH THE CUTOVER PLAN.

(3) INTERCEPT EXISTING SERVICE LATERALS MSBD #1 AND MSBD #2 AND PROVIDE A JUNCTION BOX. SEE E7.03 FOR NEW WORK REQUIREMENTS.

(4) REFER TO DRAWING E7.02 FOR SERVICES NO. 3 & 4. SERVICES NO. 5 & 6 NOT SHOWN.



1 PARTIAL ONE-LINE DIAGRAM - REMOVAL
SCALE: NOT TO SCALE

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E7.01 PARTIAL ONE LINE DIAGRAM - REMOVAL

SCALE: AS NOTED DATE: 09-15-21
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529

REVISIONS: DATE:

NOTES

1. FOR ELECTRICAL LEGEND, PHASING NOTES AND GENERAL NOTES, REFER TO DRAWING E0.01.
2. REMOVAL SHOWN ON THIS PLAN SHALL BE SEQUENCED IN ACCORDANCE WITH THE APPROVED CUTOVER PLAN. SEE SHEET E0.01.
3. PRIOR TO PURCHASING NEW SWITCHBOARD EQUIPMENT, UTILIZE A CIRCUIT TRACER TO FIELD VERIFY ALL END LOADS ORIGINATING FROM THE EXISTING SWITCHBOARDS MATCH WHAT IS SHOWN ON THE ONE-LINE DIAGRAMS. NOTIFY THE A/E OF OF ANY DISCREPANCIES. SUBMIT SHOP DRAWINGS WITH ANY REQUIRED CHANGES TO EQUIPMENT LAYOUTS, AND INCLUDE A WRITTEN DESCRIPTION OF THE CHANGES. REFER TO DRAWINGS E7.01 AND E7.02.

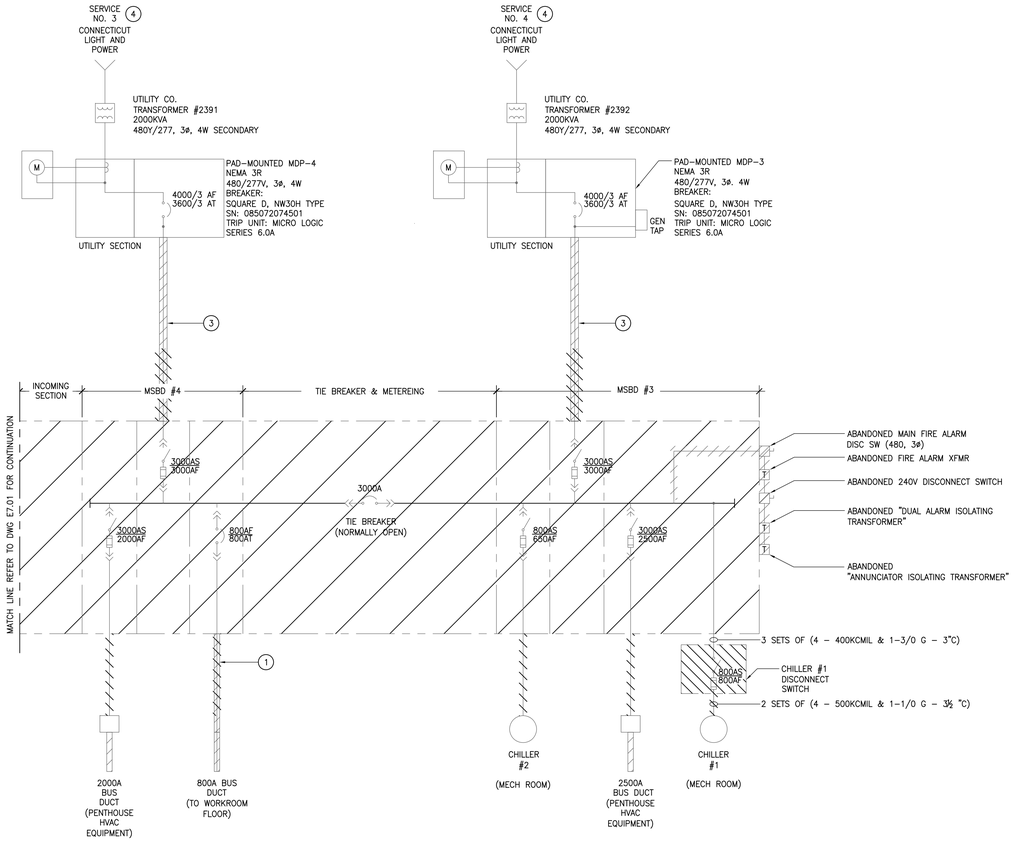
KEY NOTES:

(1) NOTED FEEDERS ARE ROUTED OVERHEAD. INTERCEPT IN AN ACCESSIBLE LOCATION IN THE ELECTRICAL/MECHANICAL ROOM AND INSTALL A JUNCTION BOX. EXTEND FEEDERS TO NEW SWITCHBOARDS.

(2) NOT USED.

(3) INTERCEPT EXISTING SERVICE LATERALS TO MSBD #3 AND MSBD #4 AND PROVIDE NEW BUS DUCT AND CABLE TAP BOX. SEE E7.04 FOR NEW WORK REQUIREMENTS.

(4) REFER TO DRAWING E7.01 FOR SERVICES NO. 1& 2. SERVICES NO. 5 & 6 NOT SHOWN.



1 PARTIAL ONE-LINE DIAGRAM - REMOVAL
SCALE: NOT TO SCALE

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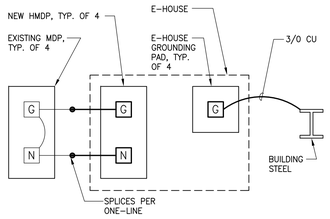
E7.02 PARTIAL ONE LINE DIAGRAM - REMOVAL

SCALE: AS NOTED DATE: 09-15-21 REVISIONS: DATE:
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529



NOTE:
PROVIDE GROUNDING ELECTRODE CONDUCTOR FROM FOUR E-HOUSE GROUNDING PADS TO BUILDING STEEL TO ENSURE A CONTINUOUS ELECTRICAL CONNECTION BETWEEN THE E-HOUSE AND THE MAIN BUILDING STEEL.

2 Title: GROUNDING ELECTRODE WIRING DIAGRAM
Scale: NOT TO SCALE Detail No.

NOTES

1. FOR ELECTRICAL LEGEND, PHASING NOTES AND GENERAL NOTES, REFER TO DRAWING E0.01.
2. REMOVAL SHOWN ON THIS PLAN SHALL BE SEQUENCED IN ACCORDANCE WITH THE APPROVED CUTOVER PLAN. SEE DRAWING E0.01.
3. PRIOR TO PURCHASING NEW SWITCHBOARD EQUIPMENT, UTILIZE A CIRCUIT TRACER TO FIELD VERIFY ALL END LOADS ORIGINATING FROM THE EXISTING SWITCHBOARDS MATCH WHAT IS SHOWN ON THE ONE-LINE DIAGRAMS. NOTIFY THE A/E OF OF ANY DISCREPANCIES. SUBMIT SHOP DRAWINGS WITH ANY REQUIRED CHANGES TO EQUIPMENT LAYOUTS, AND INCLUDE A WRITTEN DESCRIPTION OF THE CHANGES. REFER TO DRAWINGS E7.01 AND E7.02.

KEY NOTES:

(1) PROVIDE NEW JUNCTION BOX AND CABLING AS REQUIRED TO MAINTAIN EXISTING SERVICE CONNECTIONS THROUGHOUT THE PROJECT. REMOVE THE CONNECTION UPON COMPLETION OF CIRCUIT CUTOVER TO THE NEW SWITCHBOARDS.

(2) NOTED FEEDERS INCREASED IN SIZE TO ADDRESS VOLTAGE DROP.

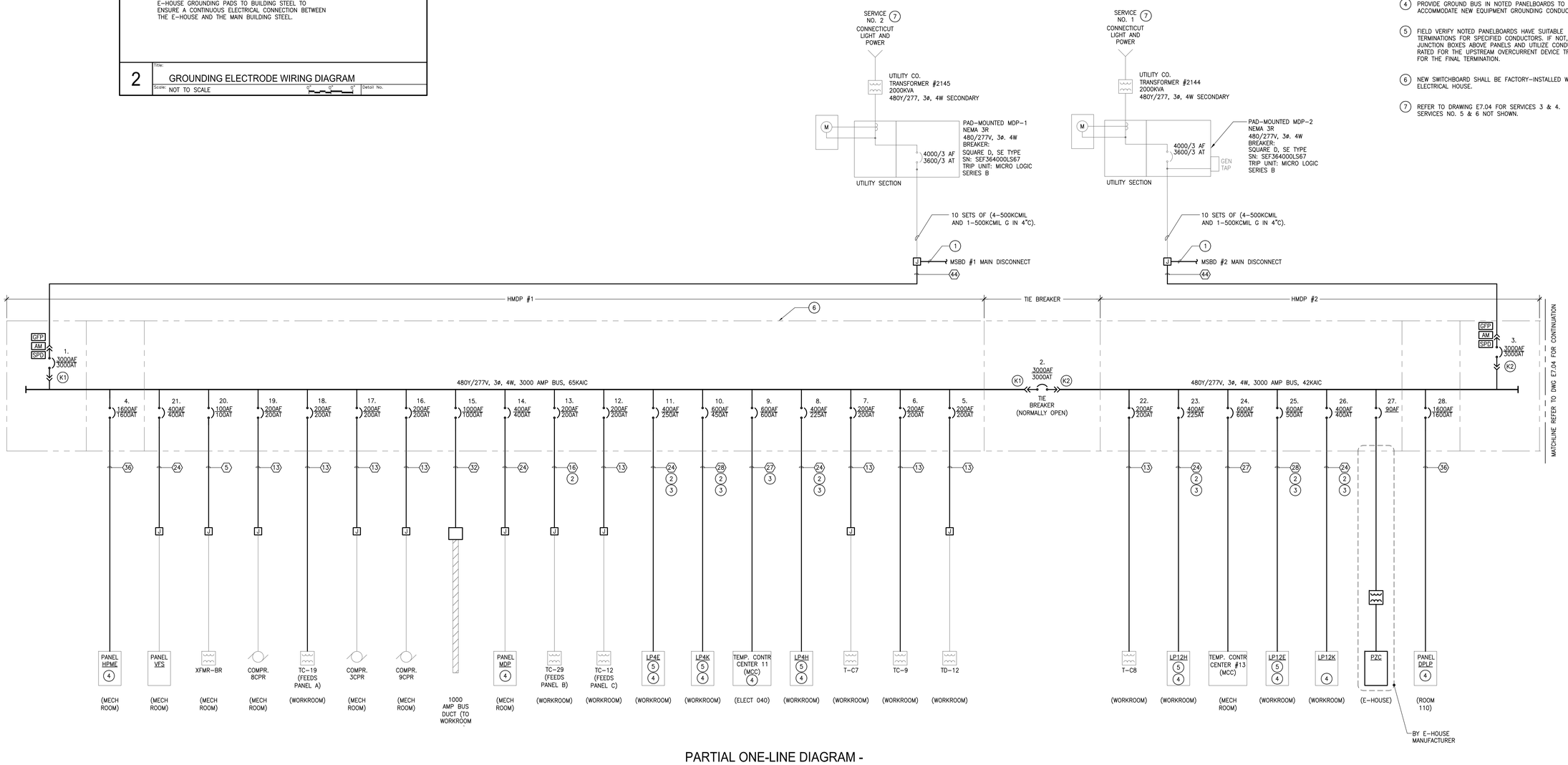
(3) NOTED FEEDERS SHALL BE INSTALLED IN CABLE TRAY WITHIN THE WORKROOM. SEE DETAILS 1 & 2 ON E9.01.

(4) PROVIDE GROUND BUS IN NOTED PANELBOARDS TO ACCOMMODATE NEW EQUIPMENT GROUNDING CONDUCTORS.

(5) FIELD VERIFY NOTED PANELBOARDS HAVE SUITABLE TERMINATIONS FOR SPECIFIED CONDUCTORS. IF NOT, PROVIDE JUNCTION BOXES ABOVE PANELS AND UTILIZE CONDUCTORS RATED FOR THE UPSTREAM OVERCURRENT DEVICE TRIP RATING FOR THE FINAL TERMINATION.

(6) NEW SWITCHBOARD SHALL BE FACTORY-INSTALLED WITHIN THE ELECTRICAL HOUSE.

(7) REFER TO DRAWING E7.04 FOR SERVICES 3 & 4. SERVICES NO. 5 & 6 NOT SHOWN.



1 PARTIAL ONE-LINE DIAGRAM - NEW WORK
SCALE: NOT TO SCALE

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E7.03 PARTIAL ONE LINE DIAGRAM - NEW WORK

SCALE: AS NOTED DATE: 09-15-21 REVISIONS: DATE:
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529

NOTES

1. FOR ELECTRICAL LEGEND, PHASING NOTES AND GENERAL NOTES, REFER TO DRAWING E0.01.
2. REMOVAL SHOWN ON THIS PLAN SHALL BE SEQUENCED IN ACCORDANCE WITH THE APPROVED CUTOVER PLAN. SEE DRAWING E0.01.
3. PRIOR TO PURCHASING NEW SWITCHBOARD EQUIPMENT, UTILIZE A CIRCUIT TRACER TO FIELD VERIFY ALL END LOADS ORIGINATING FROM THE EXISTING SWITCHBOARDS MATCH WHAT IS SHOWN ON THE ONE-LINE DIAGRAMS. NOTIFY THE A/E OF OF ANY DISCREPANCIES. SUBMIT SHOP DRAWINGS WITH ANY REQUIRED CHANGES TO EQUIPMENT LAYOUTS, AND INCLUDE A WRITTEN DESCRIPTION OF THE CHANGES. REFER TO DRAWINGS E7.01 AND E7.02.

KEY NOTES:

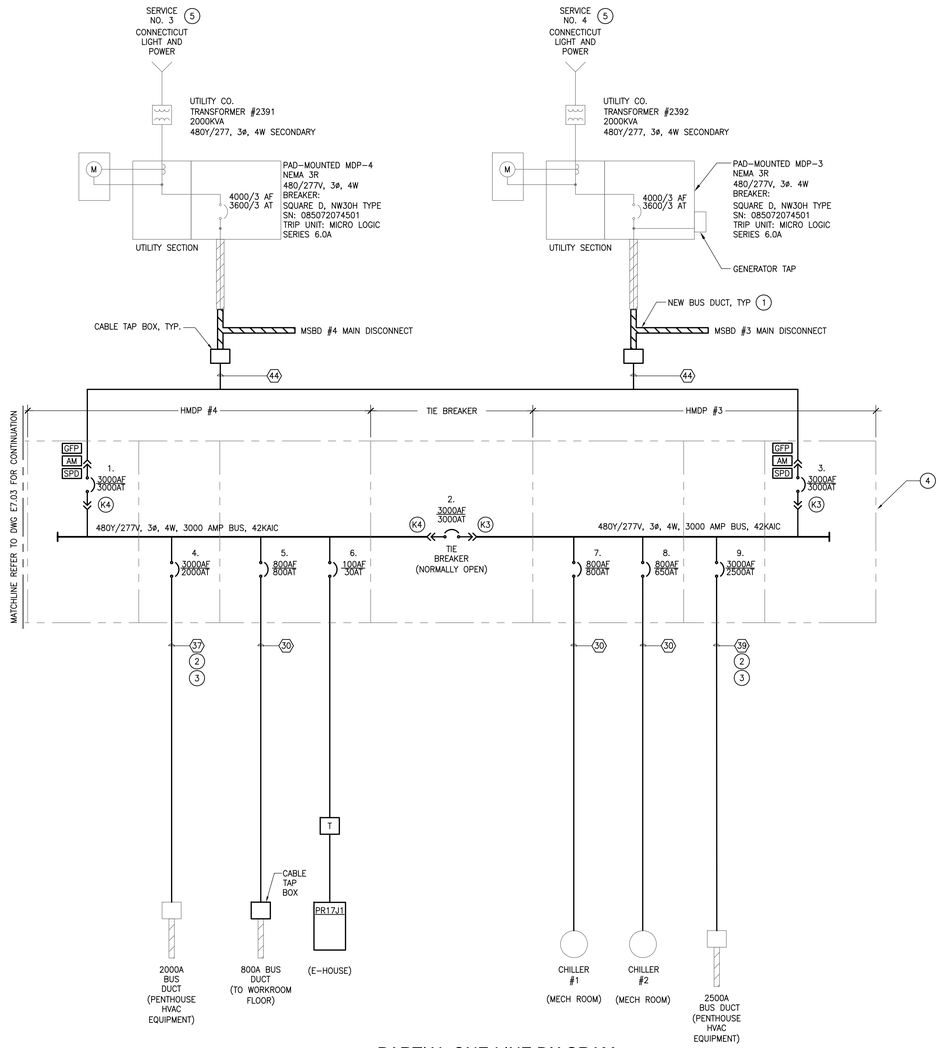
(1) PROVIDE NEW BUS DUCT AS REQUIRED TO MAINTAIN EXISTING SERVICE CONNECTIONS. COORDINATE WITH THE MANUFACTURER FOR REQUIRED MATERIALS. VISIT THE SITE TO REVIEW THE EXISTING CONDITIONS PRIOR TO SUBMITTING OFFER. REMOVE CONNECTIONS UPON COMPLETION OF CIRCUIT CUTOVER TO THE NEW SWITCHBOARDS.

(2) NOTED FEEDERS SHALL BE INSTALLED IN CABLE TRAY WITHIN THE WORKROOM. SEE DETAILS 1 & 2 ON E9.01.

(3) NOTED FEEDERS SHALL TERMINATE TO EXISTING CABLE TAP BOXES IN THE PENTHOUSE. PRIOR TO TO INSTALLATION, VERIFY THAT CABLE TAP BOXES HAVE SUITABLE LUGS TO TERMINATE CONDUCTORS SPECIFIED.

(4) NEW SWITCHBOARDS SHALL BE FACTORY-INSTALLED WITHIN THE ELECTRICAL HOUSE.

(5) REFER TO DRAWING E7.03 FOR SERVICES NO. 1 & 2. SERVICES NO. 5 & 6 NOT SHOWN.



PARTIAL ONE-LINE DIAGRAM - NEW WORK

(1) SCALE: NOT TO SCALE

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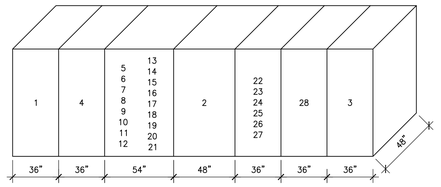
E7.04 PARTIAL ONE LINE DIAGRAM - NEW WORK

SCALE: AS NOTED DATE: 09-15-21 REVISIONS: DATE:
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529



SWITCHBOARD ELEVATION
HMDP # 1 & 2

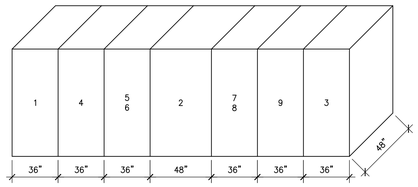
SCALE: NOT TO SCALE

SWITCHBOARD SCHEDULE

NAMEPLATE: HMDP # 1 & 2					MAINS: 3000	PHASE/WIRE: 3 ø / 4 W	VOLTAGE: 480Y/277V
CIRCUIT BREAKER							
NO.	FRAME	TRIP	POLE	TYPE	A.I.C.	EQUIPMENT	REMARKS
1	3000	3000	3	NW	65K	MAIN – HMDP #1	KIRK KEY INTERLOCK
2	3000	3000	3	NW	65K	TIE	KIRK KEY INTERLOCK
3	3000	3000	3	NW	65K	MAIN – HMDP #2	KIRK KEY INTERLOCK
4	1600	1600	3	RK	65K	PANEL HPME	
5	200	200	3	JJ	65K	TRANSFORMER TD–12	
6	200	200	3	JJ	65K	TRANSFORMER TC–9	
7	200	200	3	JJ	65K	TRANSFORMER T–C7	
8	400	225	3	LJ	65K	PANEL LP4H	
9	600	600	3	LJ	65K	TEMP. CONTROL CENTER 11	
10	600	450	3	LJ	65K	PANEL LP4K	
11	400	250	3	LJ	65K	PANEL LP4E	
12	200	200	3	JJ	65K	TRANSFORMER TC–12 (FEEDS PANEL C)	
13	200	200	3	JJ	65K	TRANSFORMER TC–29 (FEEDS PANEL B)	
14	400	400	3	LJ	65K	PANEL MDP	
15	1000	1000	3	RK	65K	BUSDUCT WORKROOM FLOOR	
16	200	200	3	JJ	65K	COMPRESSOR #9 (9 CPR)	
17	200	200	3	JJ	65K	COMPRESSOR #3 (3 CPR)	
18	200	200	3	JJ	65K	TRANSFORMER TC–19 (FEEDS PANEL A)	
19	200	200	3	LJ	65K	COMPRESSOR #8 (8 CPR)	
20	100	100	3	HJ	65K	TRANSFORMER – BR	
21	400	400	3	LJ	65K	PANEL VFS	
22	200	200	3	JJ	65K	TRANSFORMER T–C8	
23	400	225	3	LJ	65K	PANEL LP12H	
24	600	600	3	LJ	65K	TEMP. CONTROL CENTER 13	
25	600	500	3	LJ	65K	PANEL LP12E	
26	400	400	3	LJ	65K	PANEL LP12K	
27	90		3	HJ	65K	PZC XFMR FEED	
28	1600	1600	3	RK	65K	PANEL DPLP	

HMDP #1

HMDP #2



SWITCHBOARD ELEVATION
HMDP # 3 & 4

SCALE: NOT TO SCALE

SWITCHBOARD SCHEDULE

NAMEPLATE: HMDP #3 & 4					MAINS: 3000A	PHASE/WIRE: 3 ø / 4 W	VOLTAGE: 480Y/277V
CIRCUIT BREAKER							
NO.	FRAME	TRIP	POLE	TYPE	A.I.C.	EQUIPMENT	REMARKS
1	3000	3000	3	NW	65K	MAIN – HMDP #4	KIRK KEY INTERLOCK
2	3000	3000	3	NW	65K	TIE	KIRK KEY INTERLOCK
3	3000	3000	3	NW	65K	MAIN – HMDP #3	KIRK KEY INTERLOCK
4	3000	2000	3	NW	65K	2000A PLUG–IN BUSDUCT	
5	800	800	3	PK	65K	800A PLUG–IN BUSDUCT	
6	100	30	3	HJ	65K	PANEL PR17J1	
7	800	800	3	PK	65K	CHILLER #1	
8	800	650	3	PK	65K	CHILLER #2	
9	3000	2500	3	NW	65K	2500A PLUG–IN BUSDUCT	

HMDP #4

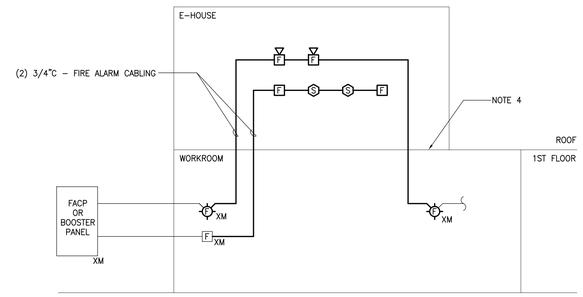
HMDP #3

NOTES

1. FOR ELECTRICAL LEGEND, PHASING NOTES AND GENERAL NOTES, REFER TO DRAWING E0.01.

FEEDER SCHEDULE - COPPER

OCPD RATING (AMPS)	TAG	3–WIRE 1ø–3W OR 3ø–3W	TAG	4–WIRE 3ø–4W
60	(1)	3#4 & 1#10 G – 1"C	(2)	4#4 & 1#10 G – 1¼"C
70	(3)	3#4 & 1#8 G – 1"C	(4)	4#4 & 1#8 G – 1¼"C
100	(5)	3#1 & 1#8 G – 1¼"C	(6)	4#1 & 1#8 G – 1½"C
125	(7)	3–1/0 & 1#6 G – 1½"C	(8)	4–1/0 & 1#6 G – 2"C
150	(9)	3–1/0 & 1#6 G – 1½"C	(10)	4–1/0 & 1#6 G – 2"C
175	(11)	3–2/0 & 1#6 G – 2"C	(12)	4–2/0 & 1#6 G – 2"C
200	(13)	3–3/0 & 1#6 G – 2"C	(14)	4–3/0 & 1#6 G – 2"C
225	(15)	3–4/0 & 1#4 G – 2"C	(16)	4–4/0 & 1#4 G – 2½"C
250	(17)	3–250KCMIL & 1#4 G – 2½"C	(18)	4–250KCMIL & 1#4 G – 2½"C
300	(19)	3–350KCMIL & 1#4 G – 4"C	(20)	4–350KCMIL & 1#4 G – 4"C
350	(21)	3–500KCMIL & 1#3 G – 4"C	(22)	4–500KCMIL & 1#3 G – 4"C
400	(23)	3–600KCMIL & 1#3 G – 4"C	(24)	4–600KCMIL & 1#3 G – 4"C
500	(25)	2 SETS OF (3–250KCMIL + 1#2 G – 2½"C)	(26)	2 SETS OF (4–250KCMIL + 1#2 G – 2½"C)
600	(27)	2 SETS OF (3–350KCMIL & 1#1 G–4"C)	(28)	2 SETS OF (4–350 KCMIL & 1#1 G–4"C)
800	(29)	2 SETS OF (3–600KCMIL & 1–1/0 G – 4"C)	(30)	2 SETS OF (4–600KCMIL & 1–1/0 G –4"C)
1000	(31)	3 SETS OF (3–400KCMIL & 1–2/0 G –4"C)	(32)	3 SETS OF (4–400KCMIL & 1–2/0 G –4"C)
1200	(33)	3 SETS OF (3–600KCMIL & 1–3/0 G –4"C)	(34)	3 SETS OF (4–600KCMIL & 1–3/0 G –4"C)
1600	(35)	4 SETS OF (3–600KCMIL & 1–4/0 G – 4"C)	(36)	4 SETS OF (4–600KCMIL & 1–4/0 G – 4"C)
2000	(37)	5 SETS OF (3–600KCMIL & 1 – 250KCMIL G – 4"C)	(38)	5 SETS OF (4–600KCMIL & 1 – 250KCMIL G – 4"C)
3000	(39)	7 SETS OF (3–600KCMIL & 1–400KCMIL G – 4"C)	(40)	7 SETS OF (4–600KCMIL & 1–400KCMIL G – 4"C)
3600	(41)	9 SETS OF (3–600KCMIL & 1–500KCMIL G – 4"C)	(42)	9 SETS OF (4–600KCMIL & 1–500KCMIL G – 4"C)
4000	(43)	10 SETS OF (3–600KCMIL & 1–500KCMIL G – 4"C)	(44)	10 SETS OF (4–600KCMIL & 1–500KCMIL G – 4"C)



PARTIAL FIRE ALARM SYSTEM RISER DIAGRAM

1

SCALE: NOT TO SCALE

NOTES:

1. INTERCEPT EXISTING FIRE ALARM CIRCUITS AND EXTEND TO NEW DEVICES IN THE E–HOUSE.
2. EXISTING FIRE ALARM SYSTEM IS NOTIFIER.
3. COORDINATE WORK WITH USPS FIRE ALARM SYSTEM SERVICE COMPANY OF RECORD. PROVIDE ALL CABLING PROGRAMMING, TESTING, STARTUP, ETC. (SEE SPECIFICATIONS). PAY ALL REQUIRED FEES.
4. COORDINATE WITH GENERAL CONTRACTOR THE CONDUIT ROUTING TO THE E–HOUSE.

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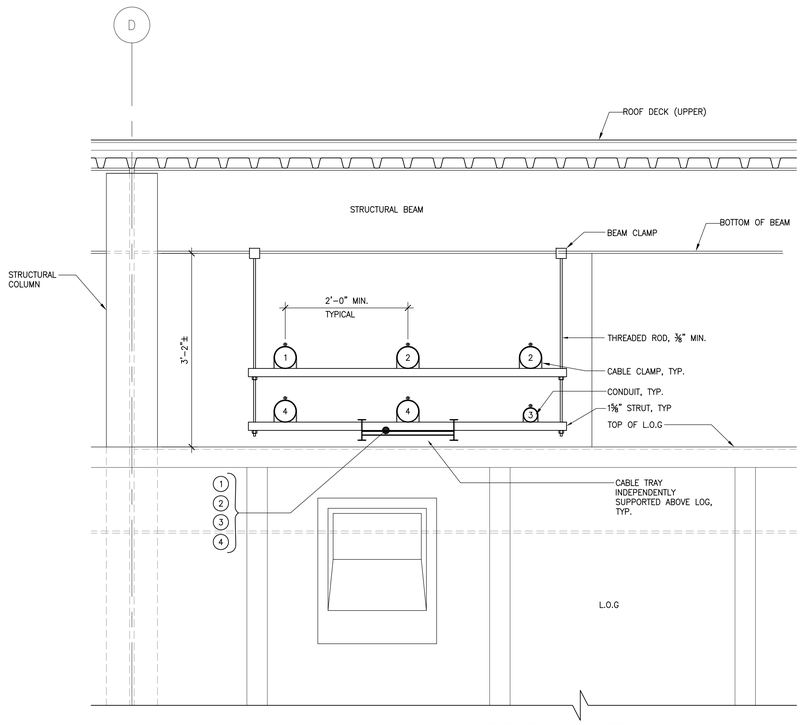
E8.01 SCHEDULES & DIAGRAMS

SCALE: AS NOTED
DATE: 09–15–21
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: 843529

REVISIONS:
DATE:



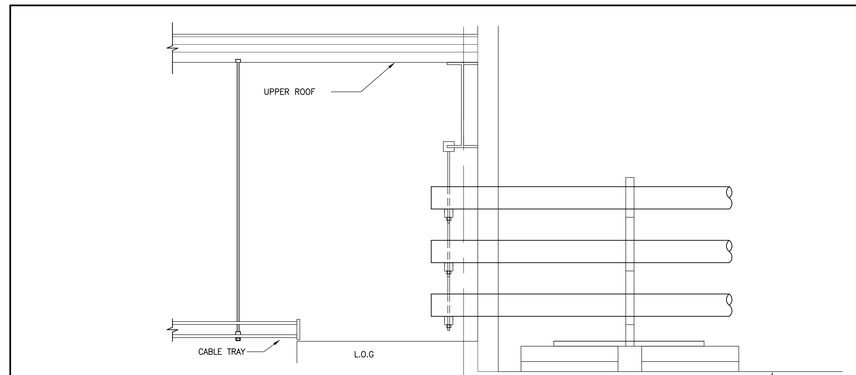
FEEDER LEGEND

1. PANEL LP4E
2. TCC#11
3. XFMR TC-9
4. PANEL LP-12E

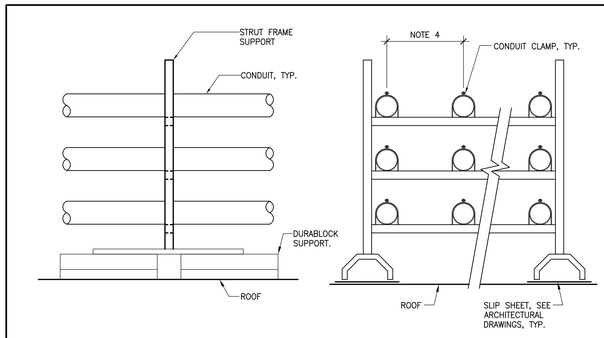
NOTES:

1. PROVIDE TRAPEZE MOUNT SYSTEM TO SUPPORT CONDUITS WITHIN THE WORKROOM. TRANSITION TO CABLE TRAY 3 FEET OF CONDUIT TERMINATIONS.
2. PROVIDE BUSHINGS ON END OF ALL CONDUITS.
3. SEE DETAILS 3 AND 5 ON THIS SHEET.

1 — CONDUIT ELEVATION AT GRIDLINE D/15
Scale: 1" = 1'-0" | Detail No. XX0-000



3 — CONDUIT ELEVATION AT GRIDLINE 15 - SECTION VIEW
Scale: NOT TO SCALE | Detail No.

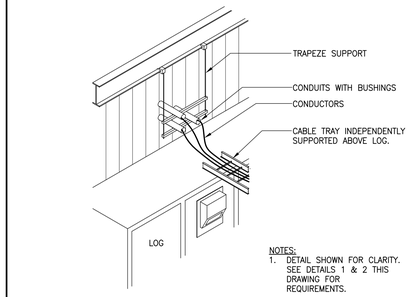


SIDE ELEVATION — FRONT ELEVATION

NOTES:

1. PROVIDE EATON DURA-BLOK ROOFTOP SUPPORT SYSTEMS (OR APPROVED EQUAL) @ 10' INTERVALS, MINIMUM. COORDINATE ALL REQUIRED HARDWARE WITH THE MANUFACTURER PRIOR TO PURCHASE.
2. PROVIDE ROOFTOP SUPPORT SYSTEM RATED FOR THE WEIGHT OF THE CONDUITS AND WIRE INSTALLED PLUS 100 LBS UNIFORM LOAD SPARE CAPACITY AT EACH SUPPORT.
3. CONDUITS SHALL BE STACKED 3 ROWS HIGH MAXIMUM, WIDTH AS APPLICABLE TO THE INSTALLATION AND RATING OF SUPPORT SYSTEM.
4. COORDINATE ARRANGEMENT OF CONDUITS WITH PENETRATIONS INTO THE BUILDING TO AVOID UNNECESSARY BENDS/TURNS NEAR ENTRY TO BUILDING.
5. SUBMIT SHOP DRAWINGS DETAILING PROPOSED CONDUIT ROUTING PLAN FOR REVIEW BY A/E PRIOR TO ORDERING MATERIAL.

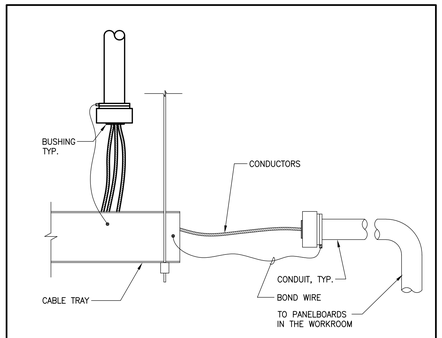
4 — ROOF MOUNTED CONDUIT DETAIL
Scale: NOT TO SCALE | Detail No. XX0-000



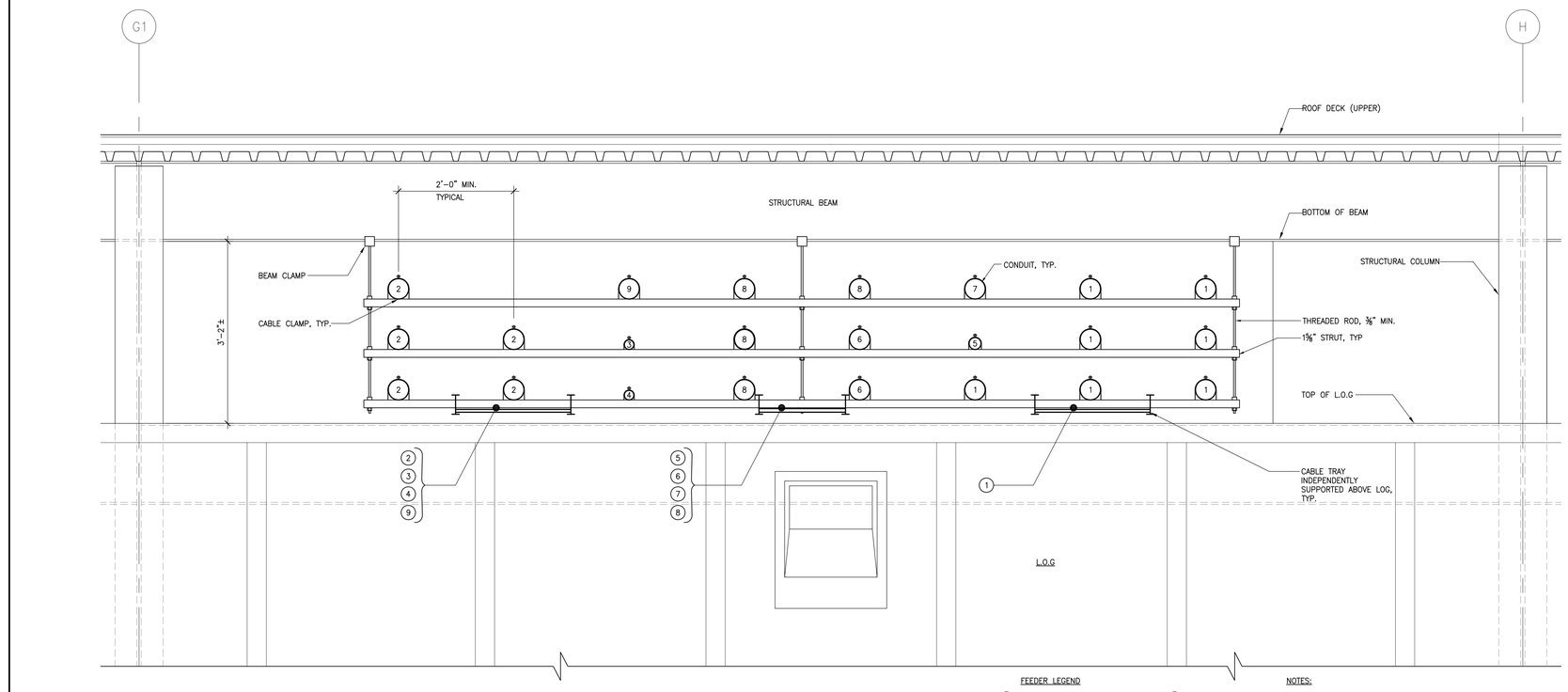
NOTES:

1. DETAIL SHOWN FOR CLARITY. SEE DETAILS 1 & 2 THIS DRAWING FOR REQUIREMENTS.

5 — TYPICAL CONDUIT ELEVATION - ISOMETRIC VIEW
Scale: N.T.S | Detail No.



6 — CABLE TRAY VERTICAL / HORIZONTAL TRANSITION DETAIL
Scale: N.T.S | Detail No.



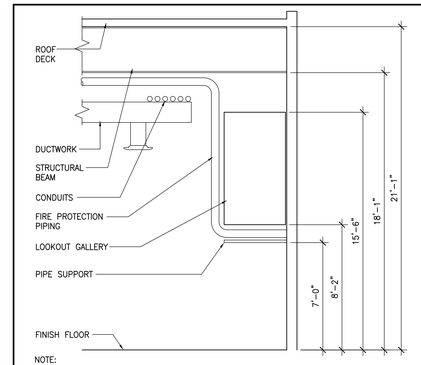
FEEDER LEGEND

1. 2500 AMP BUS DUCT (HVAC)
2. 2000 AMP BUS DUCT (HVAC)
3. XFMR TC-19
4. XFMR T-C8
5. LP-4H
6. LP-4K
7. LP12K
8. DPLP
9. LP12H

NOTES:

1. PROVIDE TRAPEZE MOUNT SYSTEM TO SUPPORT CONDUITS WITHIN THE WORKROOM. TRANSITION TO CABLE TRAY 3 FEET OF CONDUIT TERMINATIONS.
2. PROVIDE BUSHINGS ON END OF ALL CONDUITS
3. SEE DETAILS 3 AND 5 ON THIS SHEET.
4. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING.

2 — CONDUIT ELEVATION AT GRIDLINE G & H-15
Scale: 1" = 1'-0" | Detail No. XX0-000



NOTE:
EXISTING ELEVATIONS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL CONFIRM ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO ROUGHING.

7 — WORKROOM ELEVATION - EXISTING EQUIPMENT
Scale: 1/4" = 1'-0" | Detail No.

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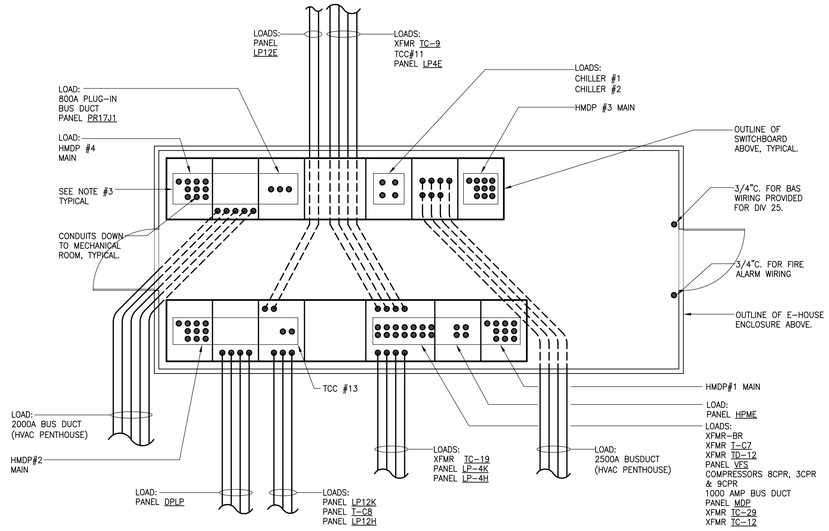
E9.01 DETAILS

REVISIONS: DATE:

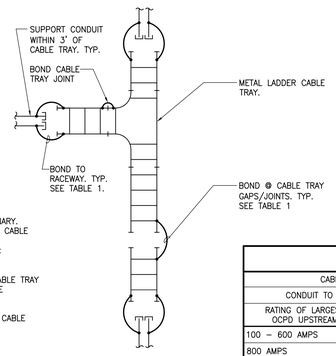
SCALE: AS NOTED DATE: 09-15-21
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: BA3529



NOTES:

1. DASHED LINE TYPE REPRESENTS CONDUITS ROUTED BENEATH THE E-HOUSE AND ABOVE THE MECHANICAL ROOM ROOF. SOLID LINE TYPE INDICATES EXPOSED CONDUITS ON THE ROOF.
2. CONDUIT ROUTING SHOWN IS SCHEMATIC IN NATURE. ACTUAL ROUTING WILL VARY.
3. FOR CONDUIT TRANSITIONS FROM MECHANICAL ROOM BELOW TO THE E-HOUSE, THE INTENT IS TO ROUTE CONDUITS THROUGH CURBS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE CONDUIT QUANTITIES/LOCATIONS WITH THE GENERAL CONTRACTOR.

1 — Title: E-HOUSE CONDUIT PLAN
Scale: NOT TO SCALE — 0" 0" 0" — Detail No.



NOTES:

1. CABLE TRAY SIZING PROVIDED IS PRELIMINARY. COORDINATE WITH MANUFACTURER OF THE CABLE TRAY SYSTEM AND PROVIDE SIZING AND SUPPORTING/SECURING WHICH MEETS NEC REQUIREMENTS AND THE SPECIFICATIONS.
2. ALL CABLING TRANSITIONING FROM THE CABLE TRAY SHALL BE INSTALLED IN CONDUIT PER THE SPECIFICATIONS.
3. SEE FIRST FLOOR PLANS FOR PROPOSED CABLE TRAY ROUTING AND PRELIMINARY SIZING.

TABLE 1

CABLE TRAY BONDING CONDUCTOR SIZING – COPPER			
CONDUIT TO CABLE TRAY		CABLE TRAY JOINTS/GAPS	
RATING OF LARGEST OCPD UPSTREAM	CONDUCTOR SIZE	RATING OF LARGEST OCPD UPSTREAM	CONDUCTOR SIZE
100 – 600 AMPS	1	100 – 600 AMPS	1/0
800 AMPS	1/0	800 AMPS	2/0
1000 – 1600 AMPS	4/0	1000 – 1600 AMPS	300 KCMIL
2000 AMPS & ABOVE	500 KCMIL	2000 AMPS & ABOVE	600 KCMIL

2 — Title: CABLE TRAY DETAIL
Scale: NOT TO SCALE — Detail No. XX0-000

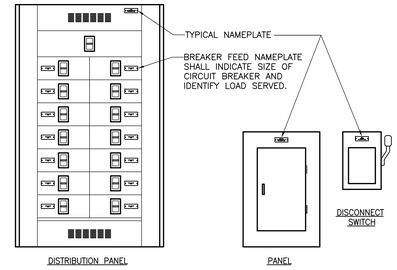
PANEL L41A
480Y/277V, 3ø, 4W, 100A
FED FROM MDP-1,3,5

RTU-1
DISCONNECT
FED FROM L41A-2,4,6

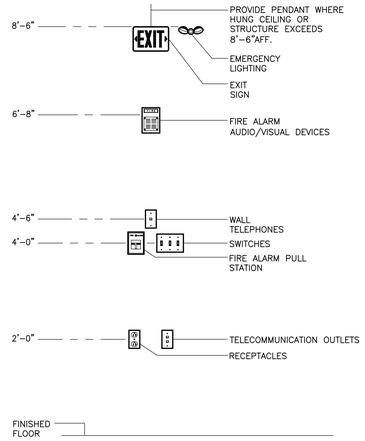
NOTES:

1. REFER TO SPECIFICATION FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
2. NAMEPLATE SHALL BE ENGRAVED THREE-LAYER LAMINATED PLASTIC. WHITE LETTERS ON BLACK BACKGROUND.
3. SECURE NAMEPLATE TO SURFACE WITH STAINLESS STEEL SCREWS, USE MINIMUM OF TWO (2) SCREWS AT EACH END OF NAMEPLATE ADHESIVE CEMENT SHALL NOT BE ALLOWED.
4. TEXT SHOWN IS AN EXAMPLE ONLY, PROVIDE DESIGNATIONS TO SUIT PROJECT CONDITIONS.

3 — Title: TYPICAL NAMEPLATE DETAIL
Scale: NOT TO SCALE — Detail No. ED0-003



5 — Title: TYPICAL NAMEPLATE LOCATIONS
Scale: NOT TO SCALE — Detail No. ED0-004



NOTES:

1. MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT EXIT SIGNS, EMERGENCY LIGHTING AND FIRE ALARM A/V APPLIANCES.
2. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
3. DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED.
4. FIRE ALARM STROBE HEIGHT SHOWN AT MAXIMUM HEIGHT. STROBE SHALL BE MOUNTED AT 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER.

4 — Title: TYPICAL DEVICE MOUNTING HEIGHTS DETAIL
Scale: NOT TO SCALE — Detail No. ED0-001

THIS IS SERVICE NO. # OF 6

– SERVICE NO. 1 LOCATED AT ELECTRICAL PENTHOUSE NORTHEAST CORNER OF BUILDING, ACCESS VIA ROOF.

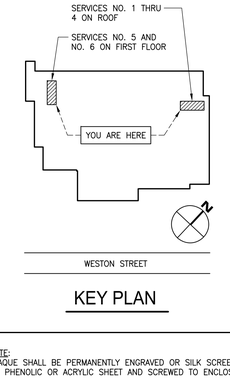
– SERVICE NO. 2 LOCATED AT ELECTRICAL PENTHOUSE NORTHEAST CORNER OF BUILDING, ACCESS VIA ROOF.

– SERVICE NO. 3 LOCATED AT ELECTRICAL PENTHOUSE NORTHEAST CORNER OF BUILDING, ACCESS VIA ROOF.

– SERVICE NO. 4 LOCATED AT ELECTRICAL PENTHOUSE NORTHEAST CORNER OF BUILDING, ACCESS VIA ROOF.

– SERVICE NO. 5 LOCATED AT ELECTRICAL ROOM NORTHWEST END OF BUILDING, COLUMN C/1A.

– SERVICE NO. 6 LOCATED AT ELECTRICAL ROOM NORTHWEST END OF BUILDING, COLUMN C/1A



KEY PLAN

NOTE:
PLAQUE SHALL BE PERMANENTLY ENGRAVED OR SILK SCREENED ON PHENOLIC OR ACRYLIC SHEET AND SCREWED TO ENCLOSURE.

6 — Title: BUILDING ELECTRIC SERVICE PLAQUE DETAIL
Scale: NOT TO SCALE — Detail No.

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E9.02 DETAILS

SCALE: AS NOTED
A/E PROJECT NO.: 18034.00
USPS PROJECT NO.: B43529

DATE: 09-15-21
REVISIONS: DATE: